

# CONSTRUCTION PLANS FOR DILLINGHAM AIRPORT

**ARFF BUILDING  
PROJECT No. 51347  
AIRPORT IMPROVEMENT PROGRAM  
A.I.P. No. 3-02-0078-07  
1995**

- 1 - TITLE
- C1 - PROJECT LOCATION
- C2 - PROJECT LAYOUT PLAN
- C3 - CHAIN-LINK FENCE DETAILS
- C4 - GATE DETAILS AND FENCE DETAILS
- C5 - WELL DETAILS AND SURCHARGE DETAILS

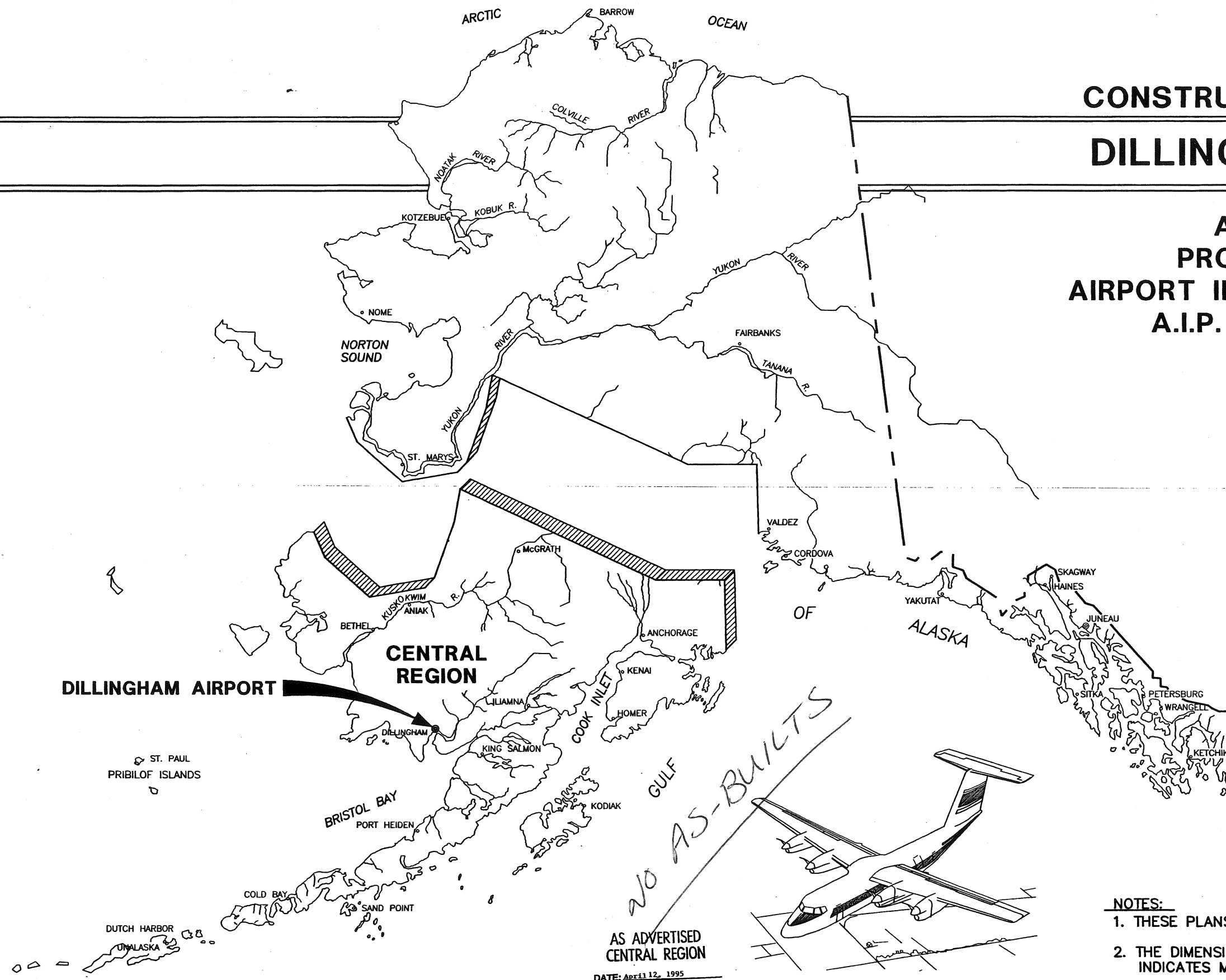
- A1 - FLOOR PLAN
- A2 - BUILDING SECTIONS AND BOLLARD DETAIL
- A3 - BUILDING ELEVATIONS
- A4 - GEAR TURN-OUT AND MEZZANINE DETAILS
- A5 - BUILDING DETAILS
- A6 - BUILDING DETAILS

- M1 - PLUMBING PLAN, HEATING AND VENTILATION PLAN
- M2 - FUEL SYSTEM SCHEMATIC FLOOR PLAN AND PLUMBING ISOMETRIC
- M3 - SEWER CONNECTION DETAIL

- E1 - ELECTRICAL SITE PLAN & STANDBY GENERATOR INSTALLATION
- E2 - ELECTRICAL FLOOR PLAN
- E3 - AUTOMATIC GATE DETAILS
- E4 - AUTOMATIC GATE ELECTRICAL DIAGRAMS

## NOTES:

1. THESE PLANS HAVE BEEN PREPARED USING THE METRIC S.I. SYSTEM.
2. THE DIMENSIONING CONVENTION FOR THIS PLAN SET IS NO DECIMAL INDICATES MILLIMETERS AND A DECIMAL INDICATES METERS.



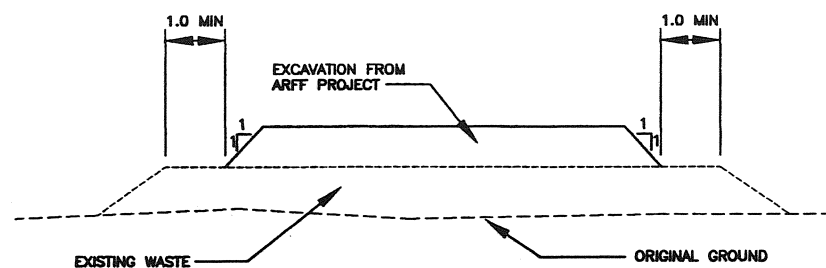
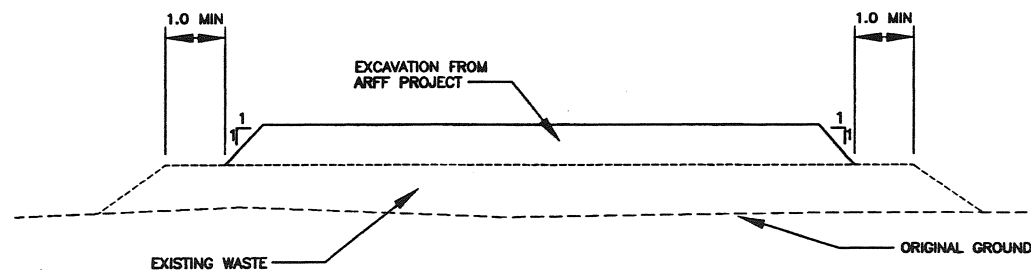
**SPONSORED BY  
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
CENTRAL REGION DESIGN AND CONSTRUCTION**

**APPROVED** *David R. Eberle* **DATE** 4/4/95  
**DAVID R. EBERLE** **DIRECTOR, DESIGN AND CONSTRUCTION**

**APPROVED** *Keith R. Morberg, P.E.* **DATE** 4/3/95  
**KEITH R. MORBERG, P.E.** **PRECONSTRUCTION ENGINEER**

**DILLINGHAM  
AIRPORT  
PROJECT No. 51347**

**SHEET 1 OF 19**

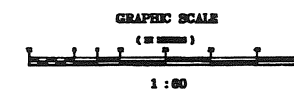
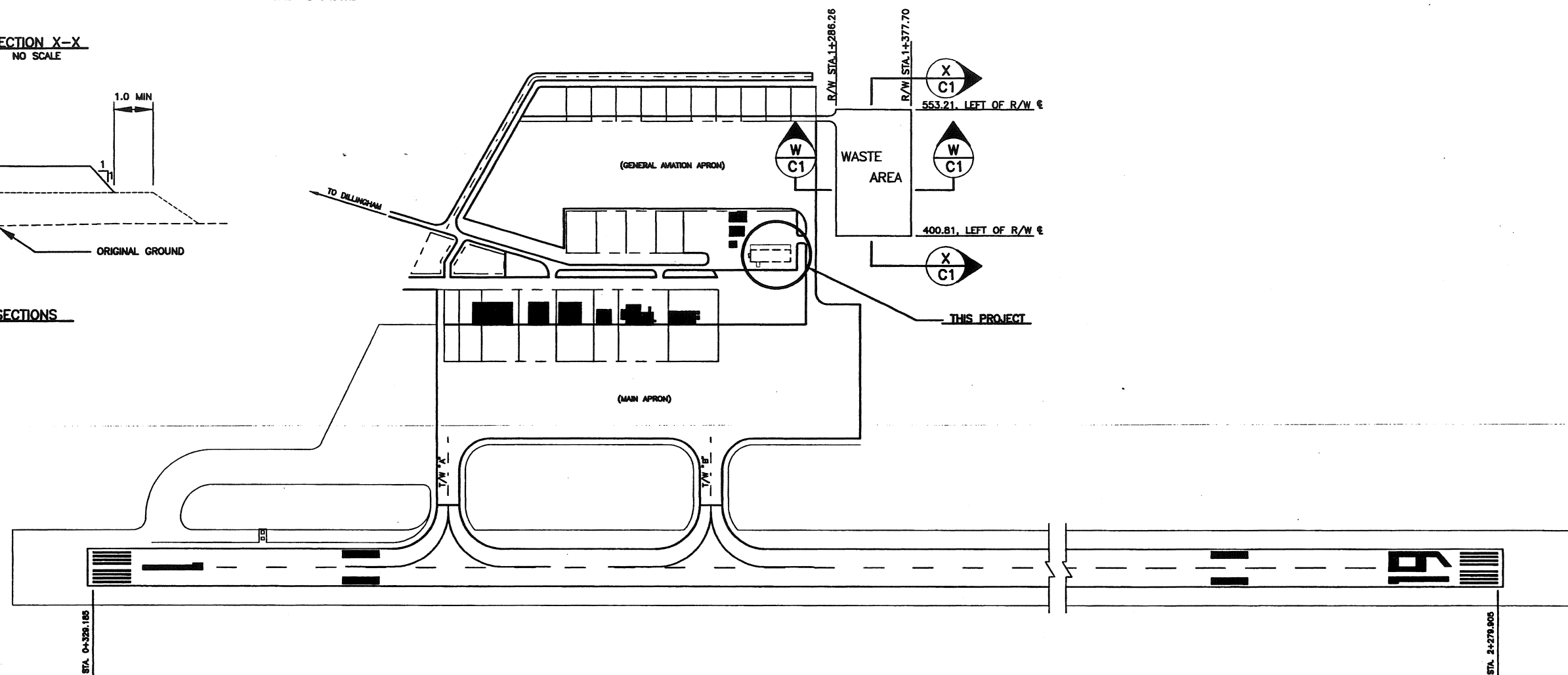


SECTION X-X  
NO SCALE

SECTION W-W  
NO SCALE

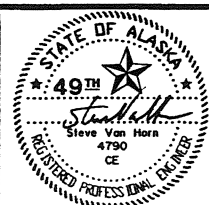
WASTE AREA TYPICAL SECTIONS

NOTE:  
1. PLACE EXCAVATION FROM ARFF BUILDING  
ON EXISTING WASTE.



--- PROPOSED ARFF BUILDING

■ EXISTING BUILDINGS



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

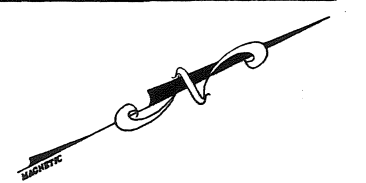
APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
STEVE VAN HORN, P.E.  
APPROVED: *Steve Van Horn* PROJECT MANAGER  
STEVE VAN HORN, P.E.

DATE 4.3.95  
DESIGN *SP*  
CHECKED  
DRAWN *W.D.P.*

**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
PROJECT LOCATION

SHEET  
C1  
OF  
5

GRAPHIC SCALE  
( IN METERS )



LEGEND

- ..... EXCAVATION / EMBANKMENT LIMITS
- [Cross-hatched box] EXISTING BUILDING
- [Stippled box] CONCRETE APRON
- [Dashed box] FULL DEPTH AGGREGATE SURFACE COURSE
- [Square with cross] DROP INLET
- [X-X-X-X] EXISTING FENCE
- [X-X-X-X] PROPOSED FENCE
- [Solid line] EXISTING CMP
- [Dashed line] PROPOSED CMP
- [Line with 'E'] UNDERGROUND ELECTRIC
- [Line with 'T'] UNDERGROUND TELEPHONE
- [Circle with cross] ALUMINUM CAP MONUMENTS (HORIZONTAL AND VERTICAL CONTROL FOR THIS PROJECT IN METERS)

GATE INSTALLATION TABLE		
#	LENGTH	ITEM
G1	6.5	AUTOMATED CANTILEVER GATE
G2	1.5	PERSONNEL GATE

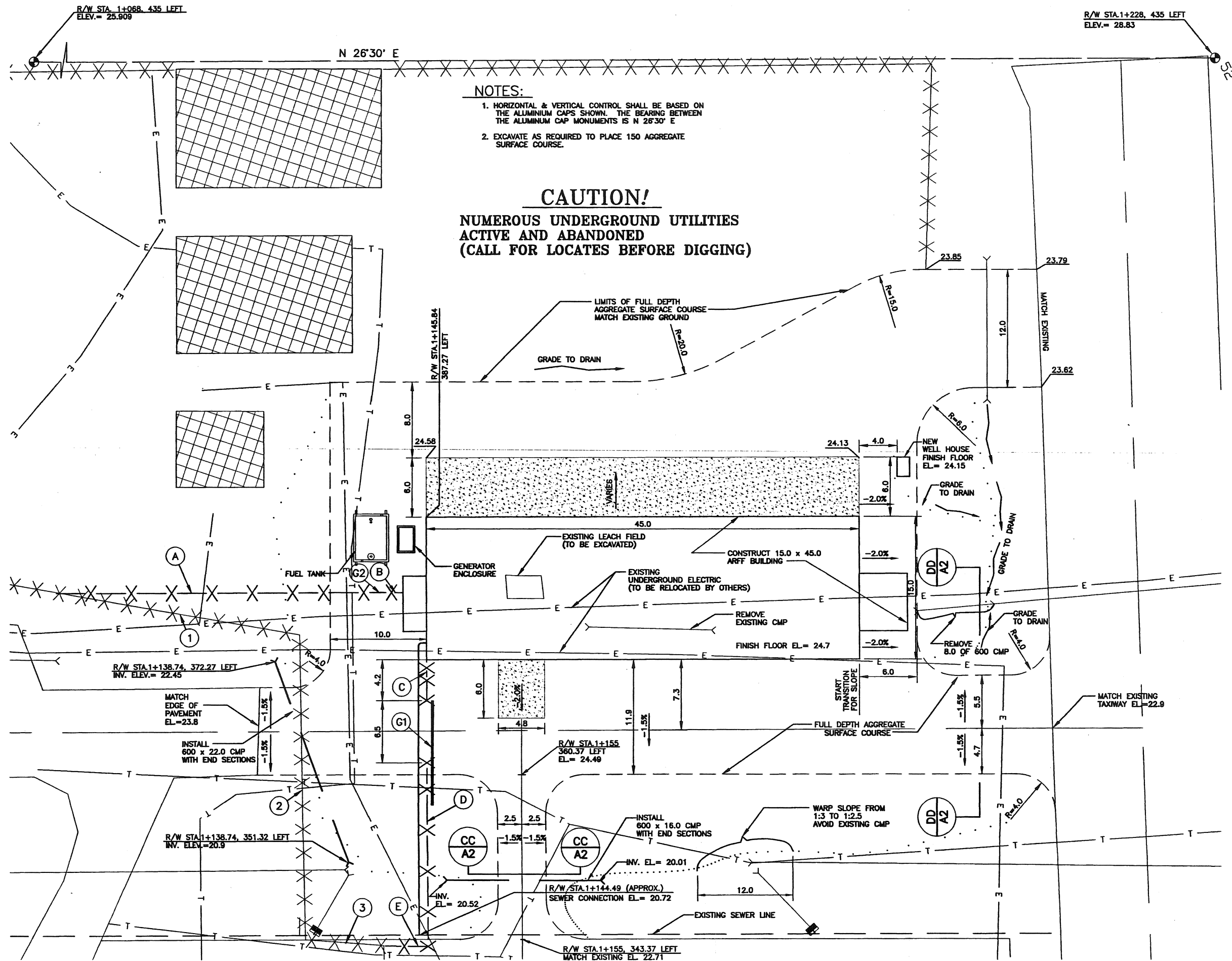
FENCE REMOVAL TABLE		
#	LENGTH	BEARING
1	25.25	
2	31.20	
3	7.92	

FENCE INSTALLATION TABLE		
#	LENGTH	BEARING
A	34.5	N 26°30' E
B	0.5	N 26°30' E
C	4.2	S 63°30' E
D	18.9	S 63°30' E
E	4.25	S 26°30' W

NOTES:

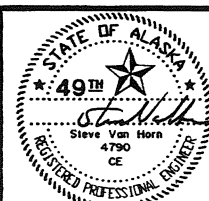
- HORIZONTAL & VERTICAL CONTROL SHALL BE BASED ON THE ALUMINUM CAPS SHOWN. THE BEARING BETWEEN THE ALUMINUM CAP MONUMENTS IS N 26°30' E
- EXCAVATE AS REQUIRED TO PLACE 150 AGGREGATE SURFACE COURSE.

**CAUTION!**  
NUMEROUS UNDERGROUND UTILITIES  
ACTIVE AND ABANDONED  
(CALL FOR LOCATES BEFORE DIGGING)



FILE: G:\DATA\ILLARP\DWG\ILLUTL  
DATE: 3/28/95 1-1 V2

BY DATE REVISIONS

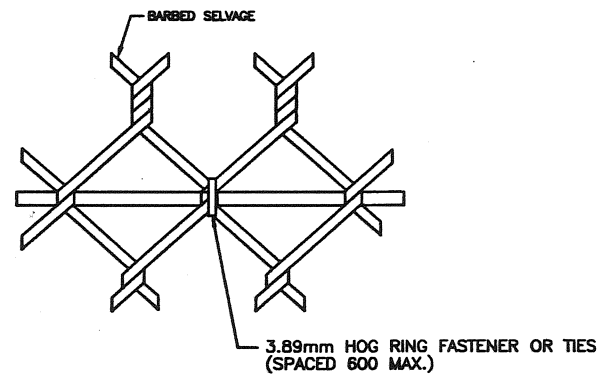


STATE OF ALASKA  
**DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES**  
CENTRAL REGION-DESIGN AND CONSTRUCTION-AVIATION  
APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
STEVE VAN HORN, P.E.  
APPROVED: *Steve Van Horn* PROJECT MANAGER  
STEVE VAN HORN, P.E.

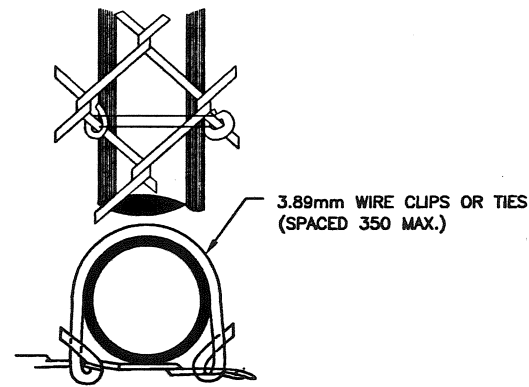
DATE 4-3-95  
DESIGN *JP*  
CHECKED  
DRAWN *JP*

**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
PROJECT LAYOUT PLAN

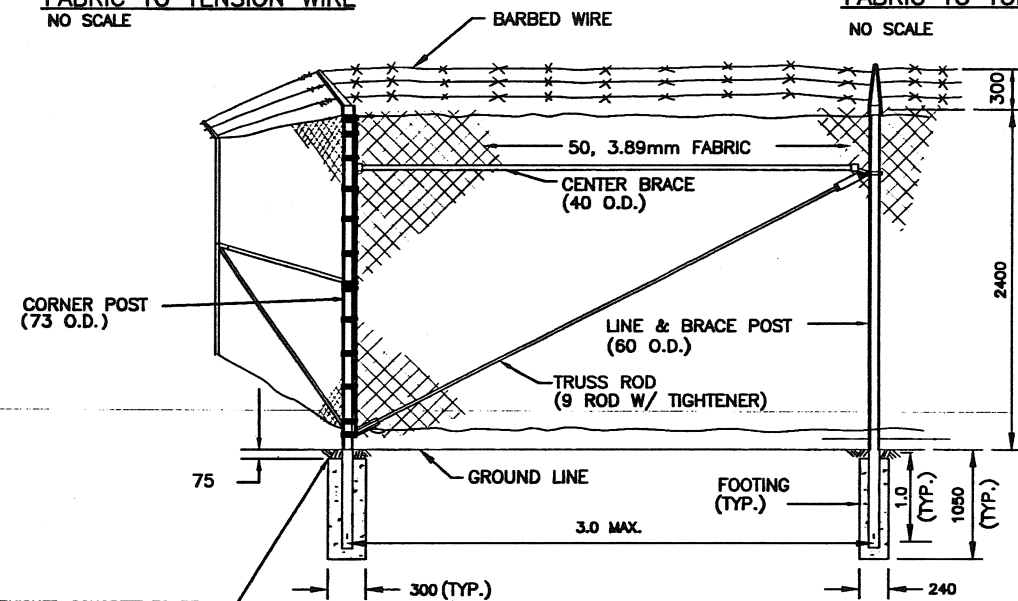
SHEET  
C2  
OF  
5



**TYPICAL METHOD OF TYING  
FABRIC TO TENSION WIRE**  
NO SCALE

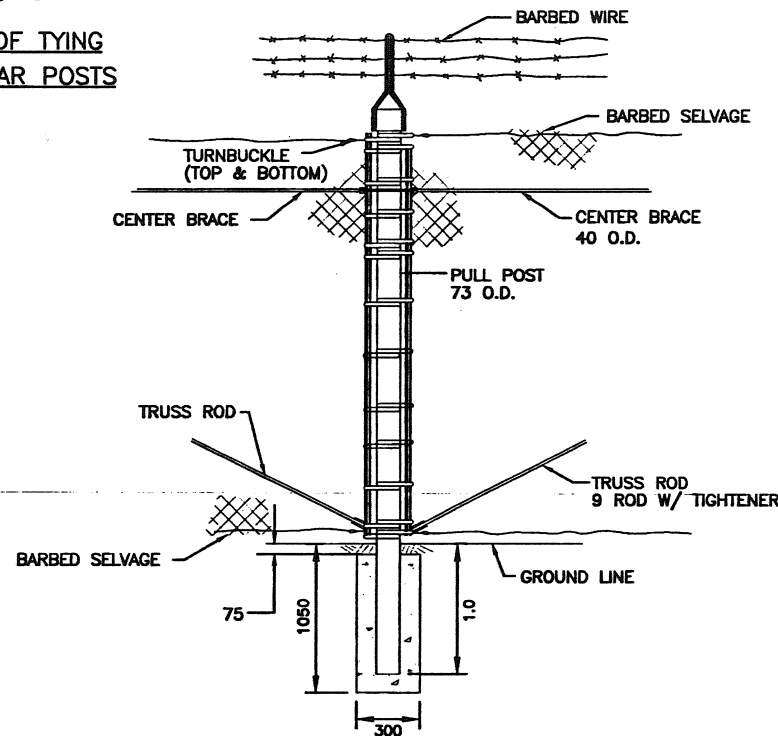


**TYPICAL METHOD OF TYING  
FABRIC TO TUBULAR POSTS**  
NO SCALE

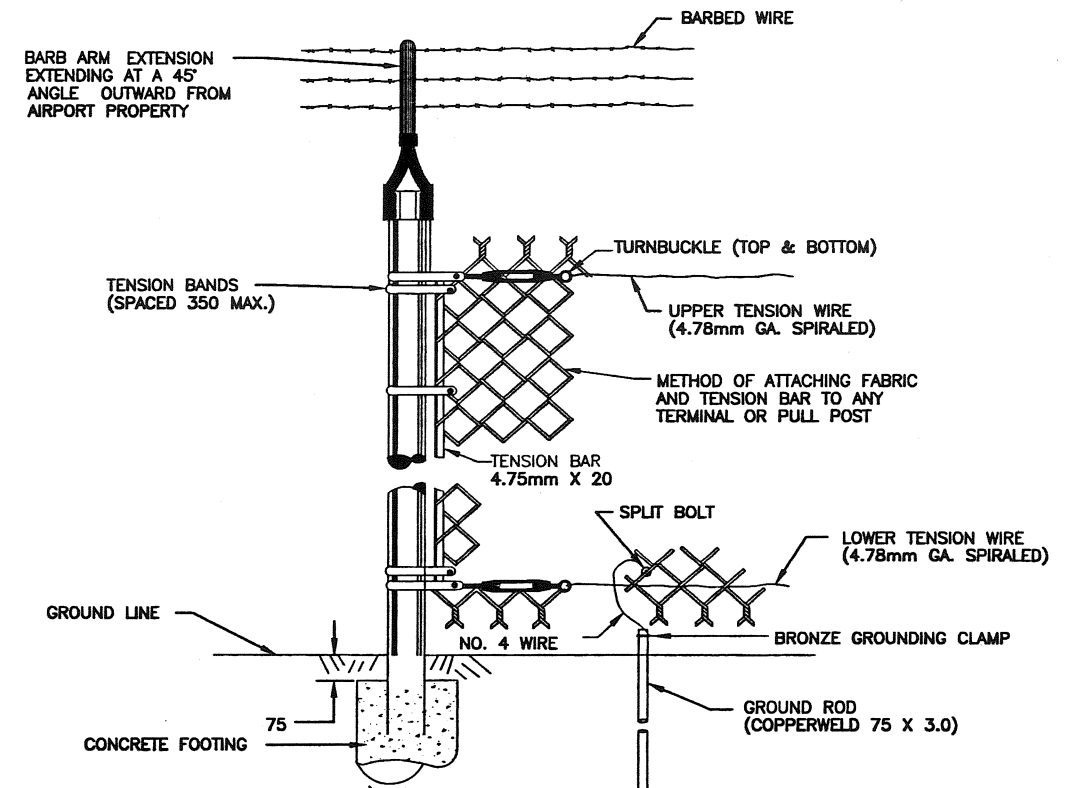


FINISHED CONCRETE TO BE  
RECESSED BELOW THE GROUND  
LINE. BACKFILL AND COMPACT  
AROUND RECESSED CONCRETE  
WITH EXCAVATED MATERIAL.  
(TYPICAL ALL CONCRETE POSTS.)

**TYPICAL CORNER TERMINAL**  
NO SCALE

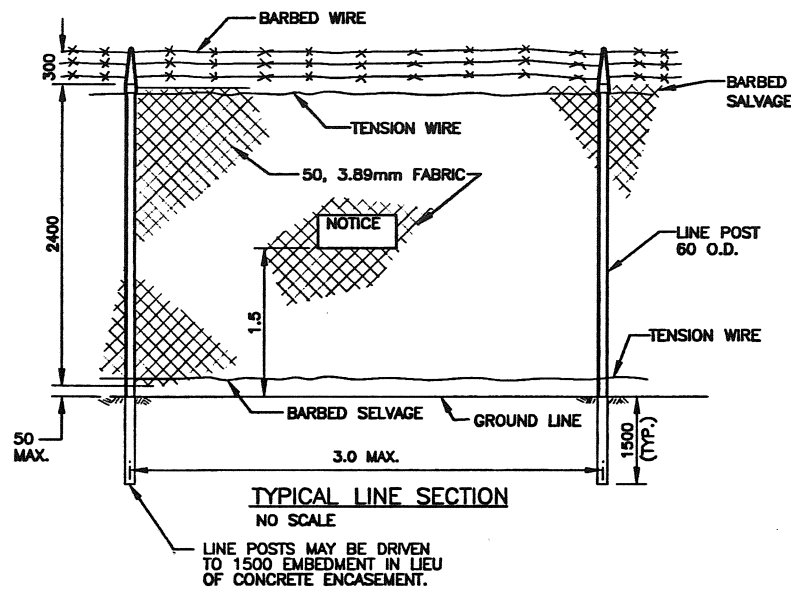


**TYPICAL PULL POST**  
NO SCALE

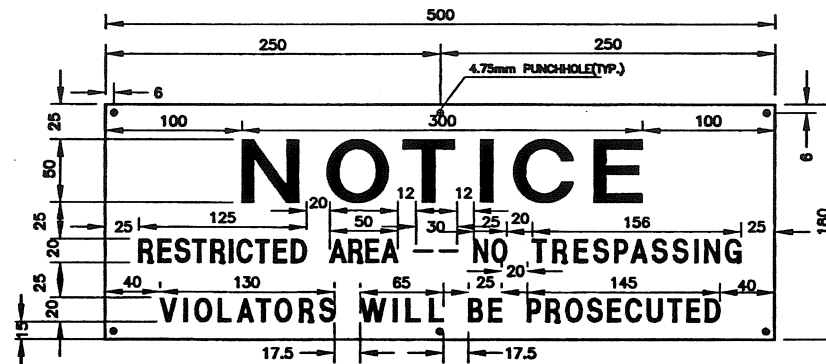


**NOTE:**

1. ALL CONCRETE USED FOR FENCE FOOTINGS SHALL BE 6 SACK MIX SAC-CRETE OR APPROVED EQUAL.



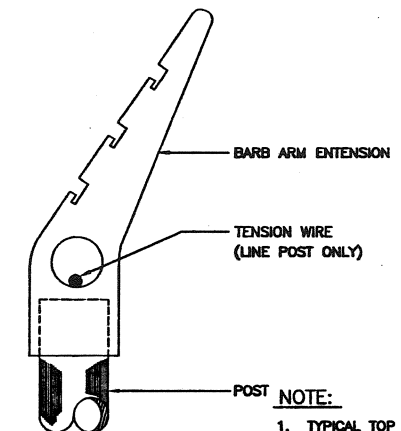
**TYPICAL LINE SECTION**  
NO SCALE



**"NOTICE" SIGN PLATE DETAIL**  
NO SCALE

**NOTES**

1. NOTICE SIGN PLATE SHALL HAVE WHITE REFLECTIVE SHEETING BACKGROUND WITH RED LETTERING.
2. THE LOWER EDGE OF ALL "NOTICE" SIGN PLATES SHALL BE INSTALLED 1.5m ABOVE THE GROUND AT ALL ANGLE POINTS.
3. ALL SIGN DIMENSIONS ARE IN MILLIMETERS.

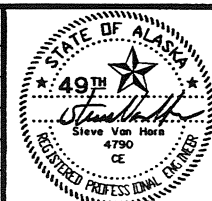


**TYPICAL EYE-TOP  
BARB-TOP EXTENSION**  
NO SCALE

**NOTE:**

1. TYPICAL TOP FOR ALL LINE & PULL POST
2. TENSION WIRE TO BE THREADED THROUGH EYE-TOP, AS SHOWN, ON ALL POST

BY	DATE	REVISIONS



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

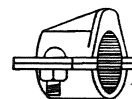
APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
STEVE VAN HORN, P.E.  
APPROVED: *Steve Van Horn* PROJECT MANAGER  
STEVE VAN HORN, P.E.

DATE: 4-3-95  
DESIGN: *JP*  
CHECKED: *JP*  
DRAWN: *M. H. P.*

**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
CHAIN LINK FENCE DETAILS

SHEET  
C3  
OF  
5





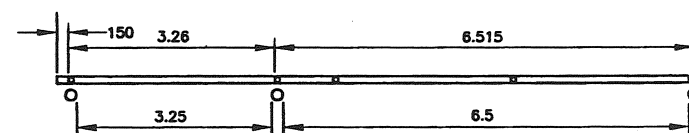
BACK STOP  
C-2



ACORN OR DOME CAP  
FOR GATE POST



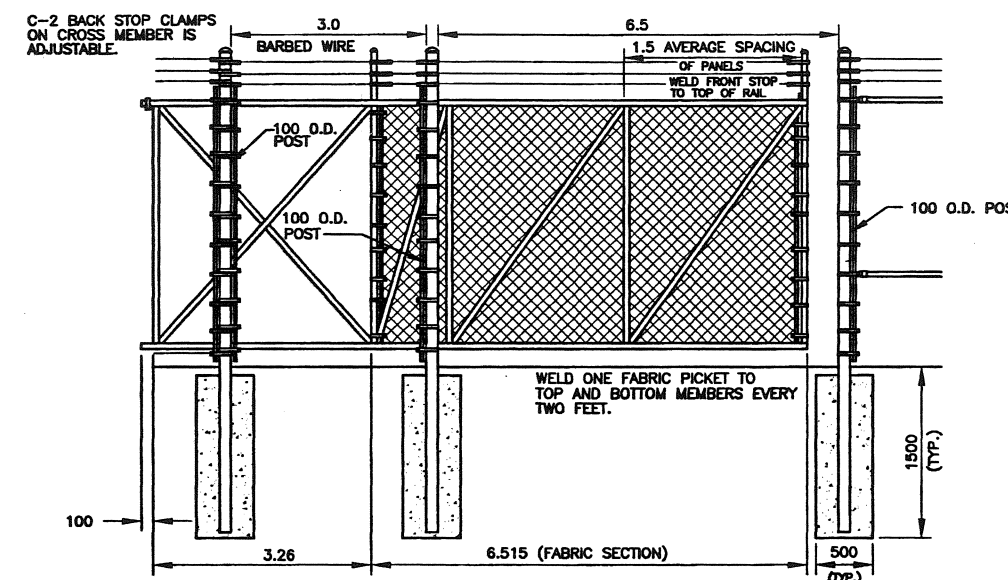
BARB WIRE BAND  
WITH RATCHET NO. 60



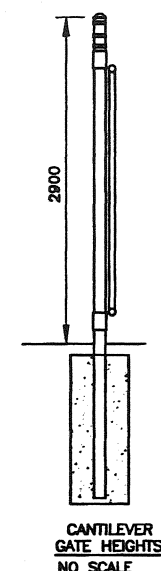
CANTILEVER GATE LENGTH  
NO SCALE



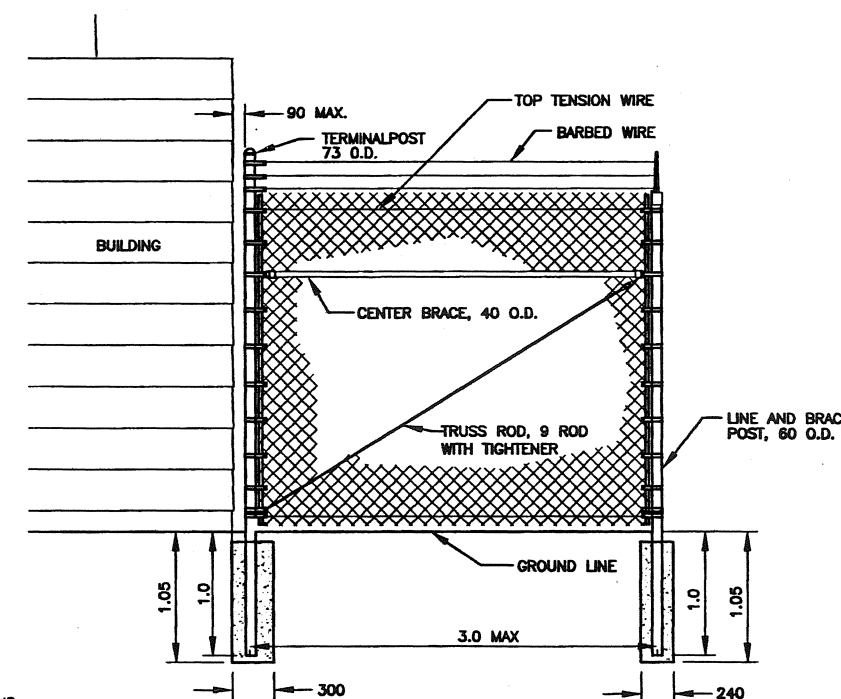
"STOP" SIGN PLATE DETAIL  
NO SCALE



TYPICAL CANTILEVER GATE  
NO SCALE



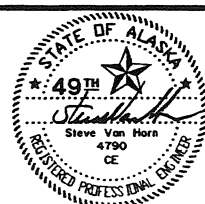
CANTILEVER  
GATE HEIGHTS  
NO SCALE



TYPICAL FENCE TERMINUS  
NO SCALE

NOTES

- "STOP" SIGN PLATES SHALL HAVE WHITE REFLECTIVE SHEETING BACKGROUND WITH RED LETTERING.
- "STOP" SIGN PLATES SHALL BE PLACED IN CENTER OF ALL FENCE GATES INSTALLED UNDER THIS CONTRACT.
- "STOP" SIGN PLATES SHALL BE CENTERED ON GATE.
- ALL SIGN DIMENSIONS ARE IN MILLIMETERS.



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

APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
APPROVED: *Steve Van Horn* PROJECT MANAGER

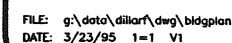
DATE 4-3-95  
DESIGN *JP*  
CHECKED  
DRAWN *ML*

DILLINGHAM AIRPORT  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
GATE DETAILS AND FENCING DETAILS



DOOR SCHEDULE			
DOOR NUMBER	TYPE	SIZE (WxH)	SWING
△	EXTERIOR	900 x 2100	LT
△	OVERHEAD	3600 x 4800	—
△	OVERHEAD	4800 x 4800	—
△	INTERIOR	900 x 2050	RT
△	INTERIOR	900 x 2050	LT
△	EXTERIOR	900 x 2100	RT
△	OVERHEAD	240 x 240	—

 LEGEND  
FIRE EXTINGUISHER

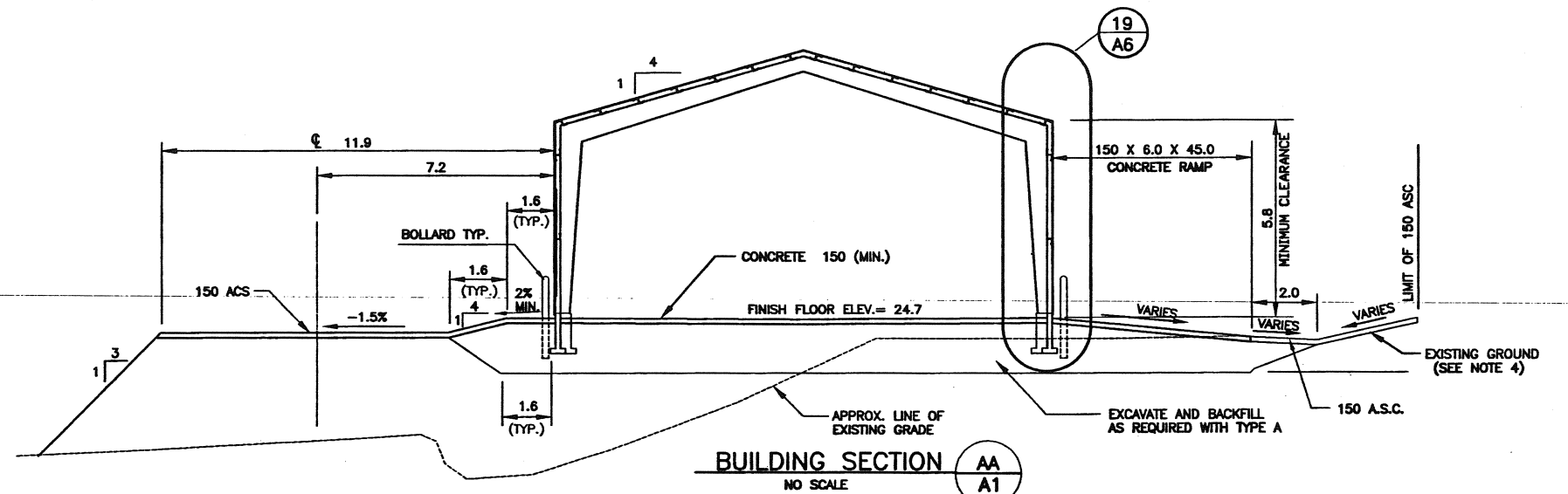
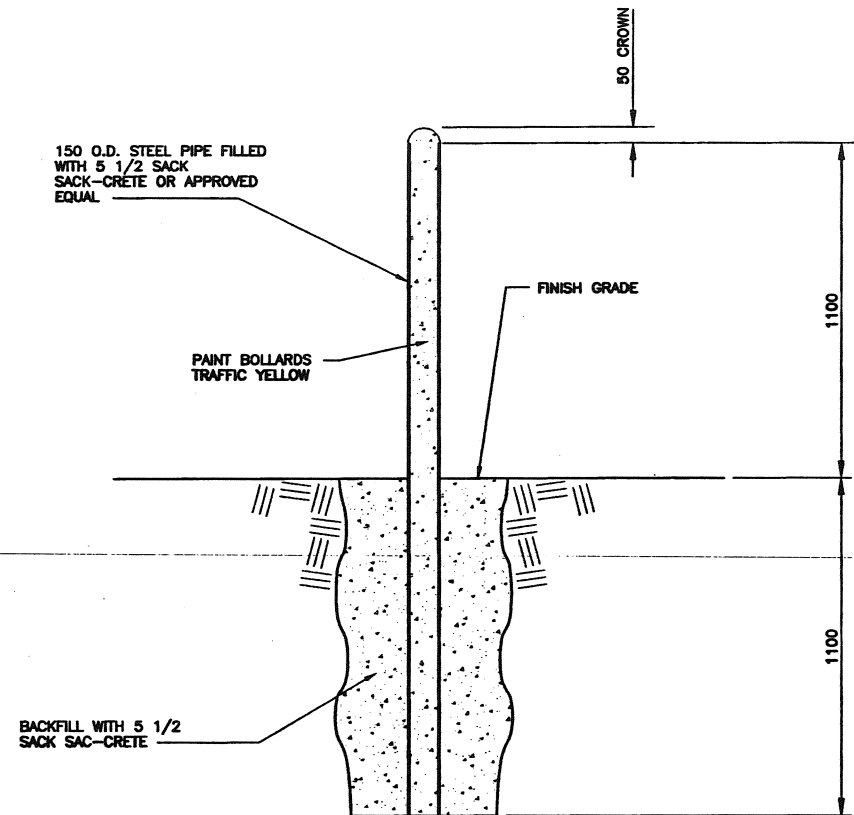
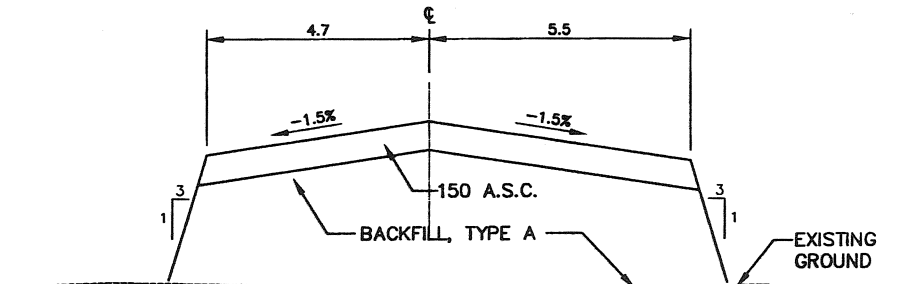
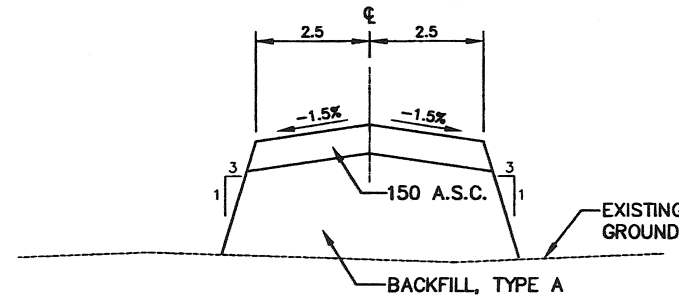


STATE OF ALASKA  
★ 49TH ★  
*Steve Van Horn*  
Steve Van Horn  
4790  
CE  
REGISTERED PROFESSIONAL ENGINEER

DATE 4-3-95  
DESIGN JD  
CHECKED \_\_\_\_\_  
DRAWN MLP

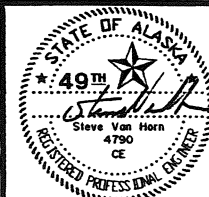
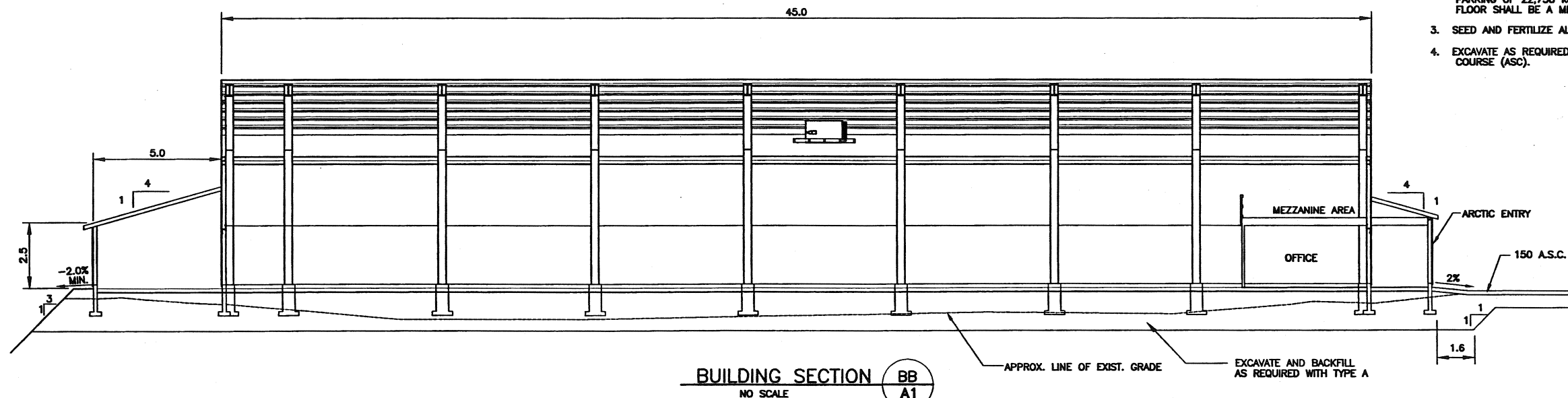
**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
FLOOR PLAN

SHEET  
A1  
OF  
6



#### NOTES:

1. FOUNDATION AND RAMP DESIGN SHALL BE SUPPLIED BY THE CONTRACTOR AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALASKA.
2. BUILDING FLOOR AND RAMP SHALL BE DESIGNED TO WITHSTAND PARKING OF 22,730 kg. 4-WHEEL ARFF VEHICLE. THE CONCRETE FLOOR SHALL BE A MINIMUM OF 150 THICK.
3. SEED AND FERTILIZE ALL DISTURBED SLOPES.
4. EXCAVATE (AS REQUIRED) FOR PLACEMENT OF AGGREGATE SURFACE COURSE (ASC).



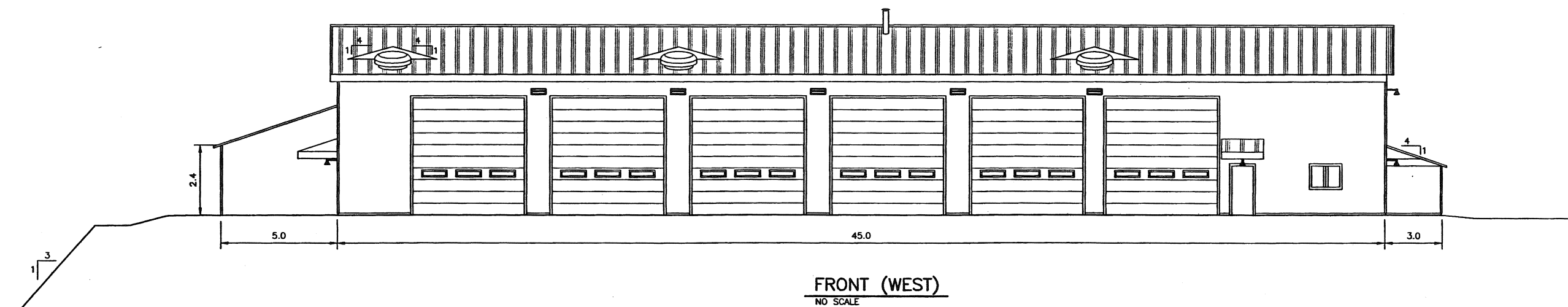
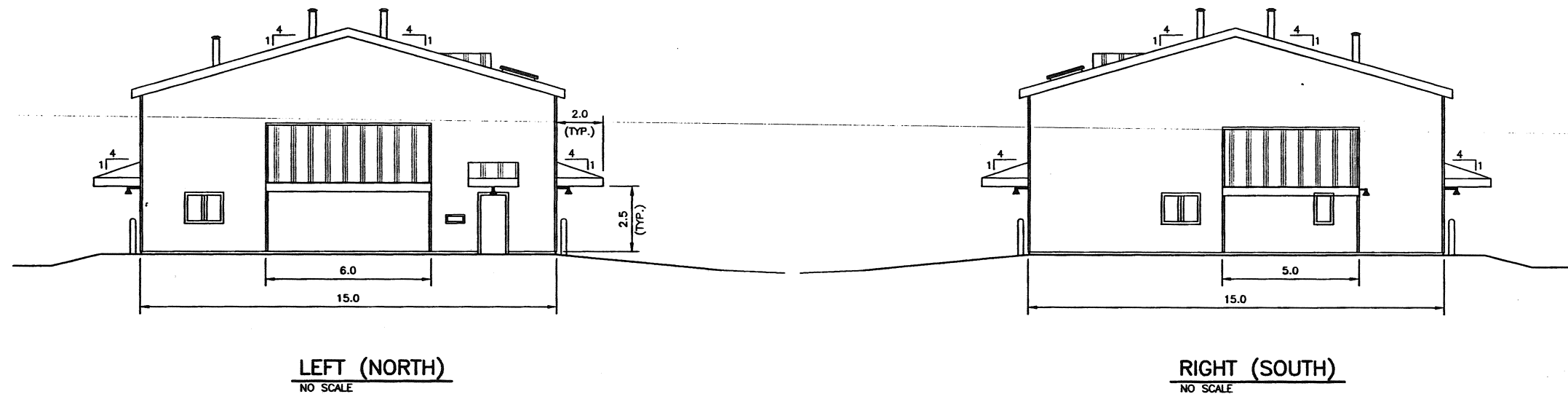
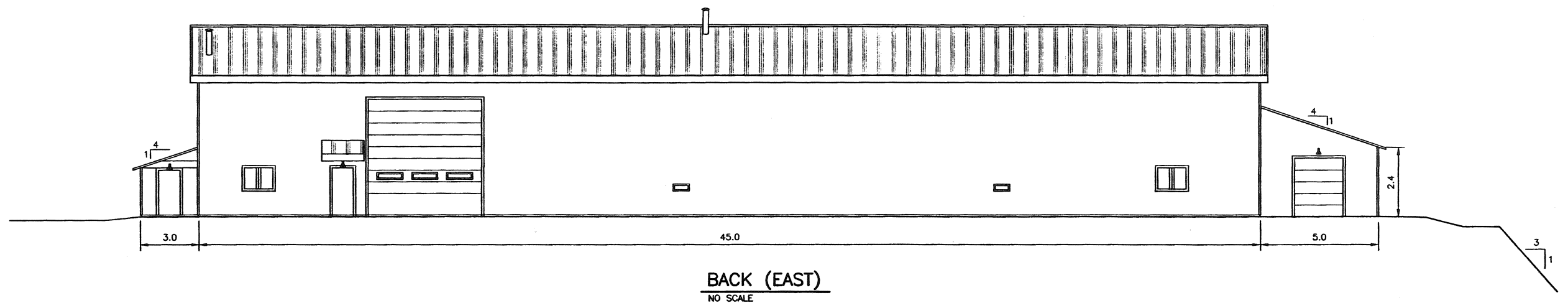
#### STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION-DESIGN AND CONSTRUCTION-AVIATION

APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
STEVE VAN HORN, P.E.  
APPROVED: *Steve Van Horn* PROJECT MANAGER  
STEVE VAN HORN, P.E.

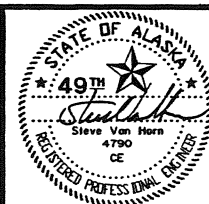
DATE 4.3.95  
DESIGN *SVH*  
CHECKED *MLP*  
DRAWN *MLP*

**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
BUILDING SECTIONS  
AND BOLLARD DETAIL

SHEET  
A2  
OF  
6



BY	DATE	REVISIONS



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

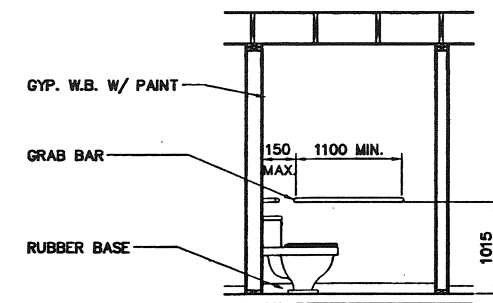
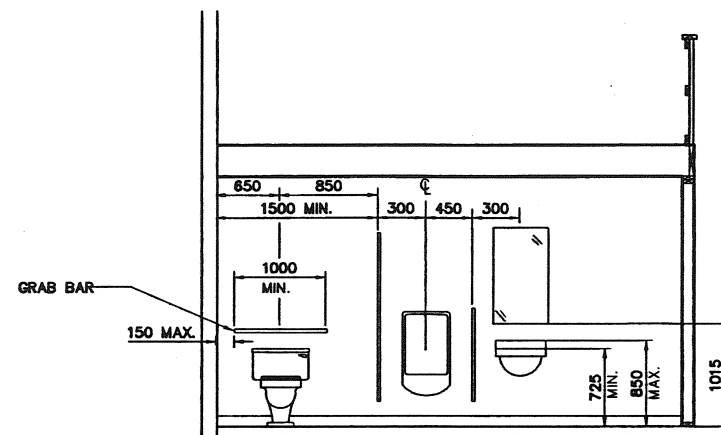
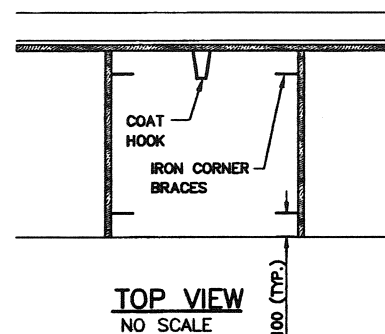
APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
STEVE VAN HORN, P.E.  
APPROVED: *Steve Van Horn* PROJECT MANAGER  
STEVE VAN HORN, P.E.

DATE: 4-3-95  
DESIGN: *SVH*  
CHECKED: *SVH*  
DRAWN: *SVH*

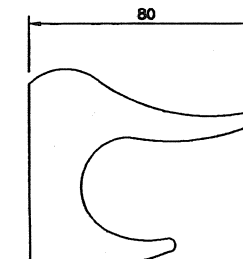
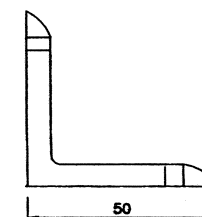
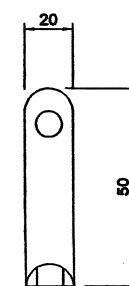
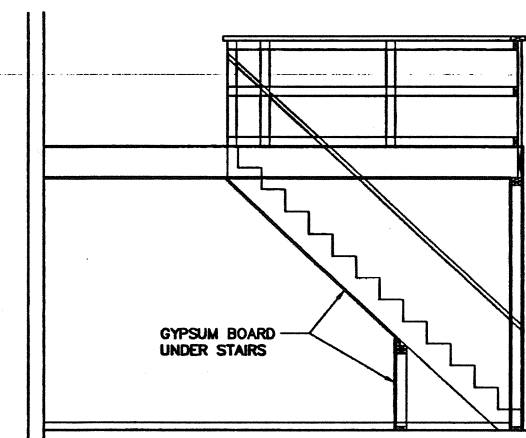
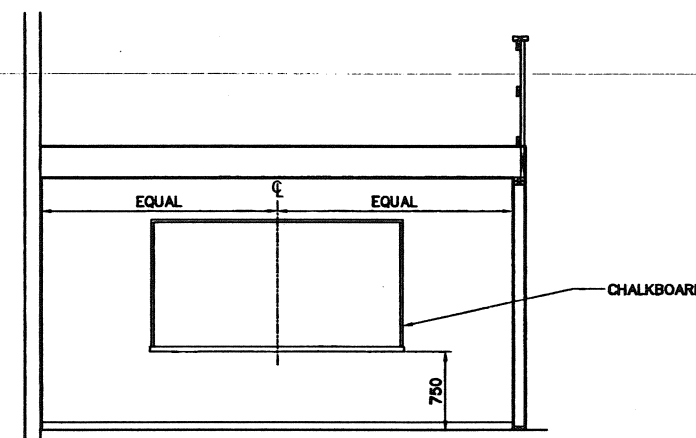
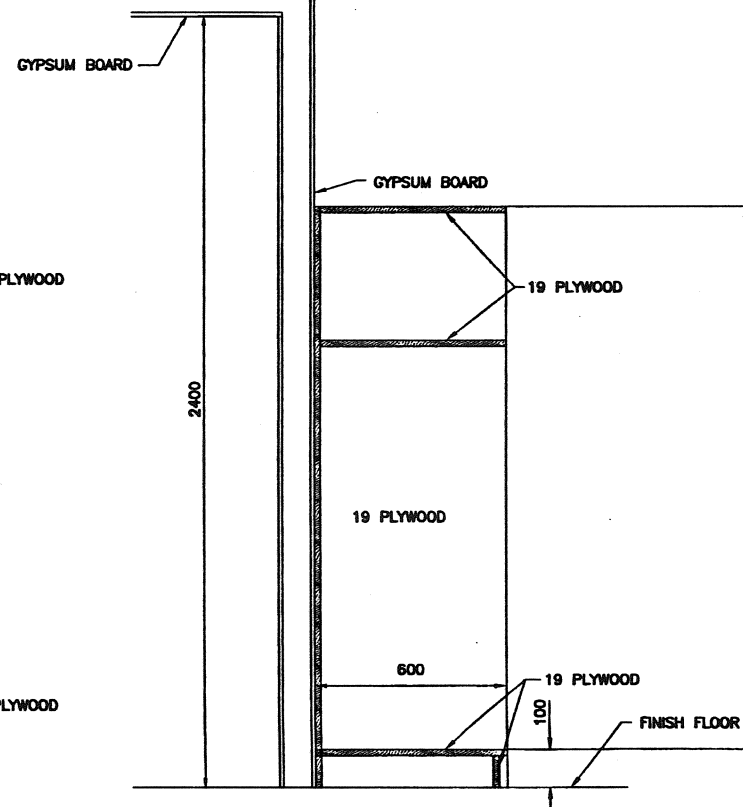
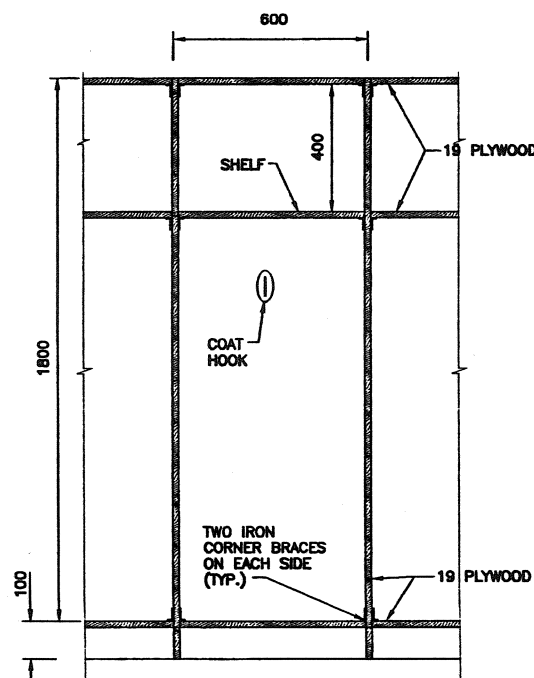
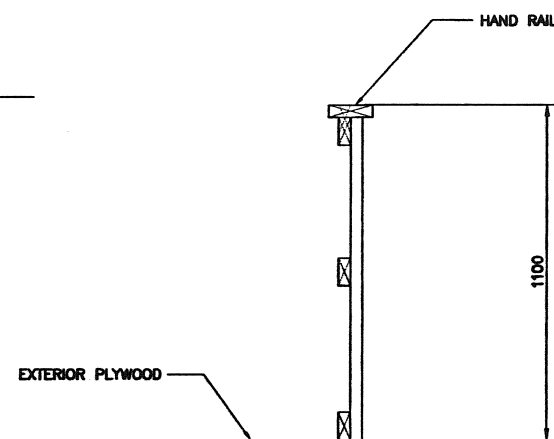
**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
BUILDING ELEVATIONS

SHEET  
A3  
OF  
6





- NOTES:**
1. THE GEAR TURN OUT AREAS SHALL BE CONSTRUCTED OF 19 PLYWOOD.
  2. THE GEAR TURN OUT AREAS SHALL BE ATTACHED TO THE BACKING WALL STUDS WITH 45 LONG LAG BOLTS.
  3. THE GEAR TURN OUT AREAS SHALL BE COATED WITH WHITE INTERIOR GRADE LATEX PAINT.
  4. INSTALL 50 IRON CORNER BRACES, TWO ON EACH SIDE AS SHOWN IN THE DETAIL.



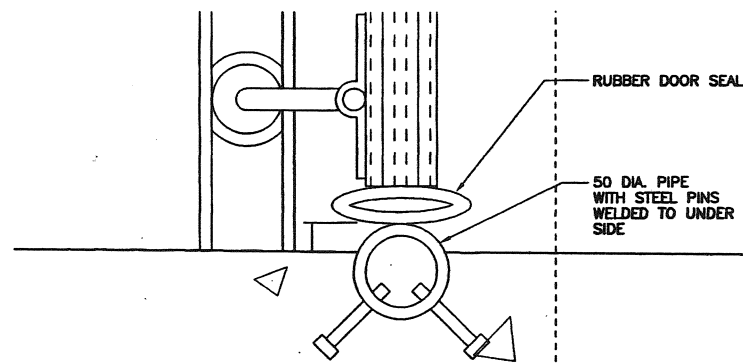
STATE OF ALASKA  
**DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES**  
CENTRAL REGION-DESIGN AND CONSTRUCTION-AVIATION

APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
STEVE VAN HORN, P.E.  
APPROVED: *Steve Van Horn* PROJECT MANAGER  
STEVE VAN HORN, P.E.

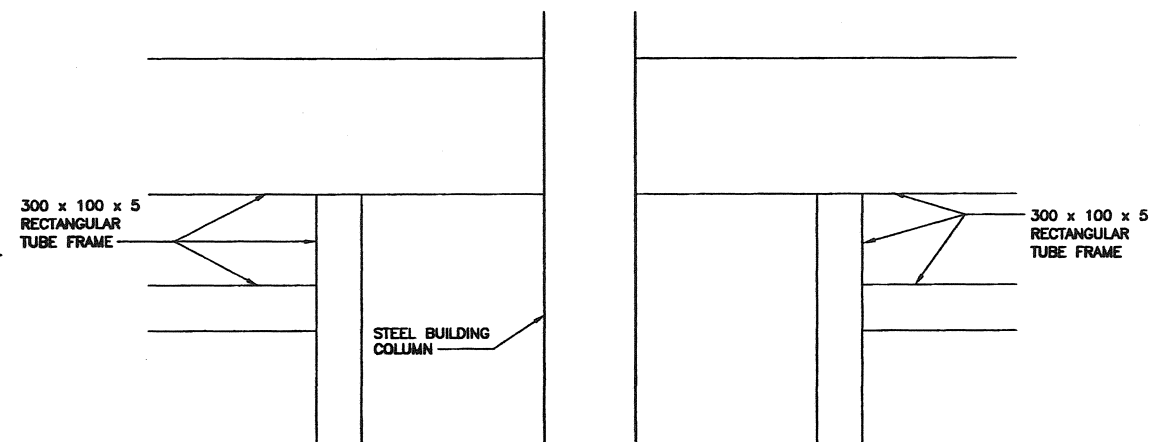
DATE **4.3.95**  
DESIGN *[Signature]*  
CHECKED *[Signature]*  
DRAWN *[Signature]*

**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
GEAR TURN-OUT AND MEZZANINE DETAILS

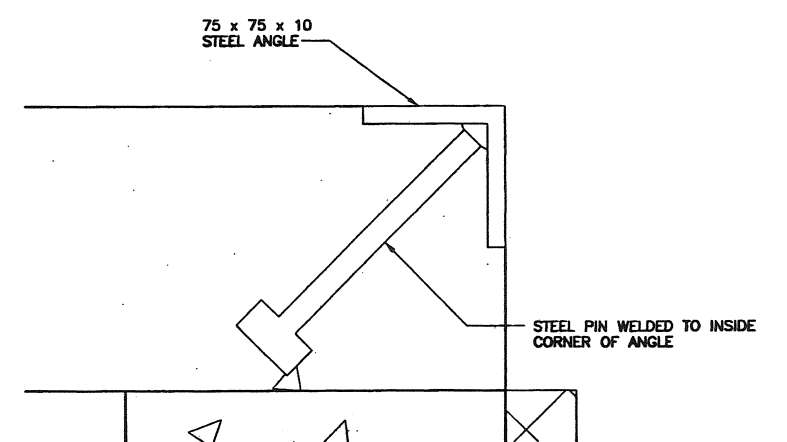
SHEET  
**A4**  
OF  
**6**



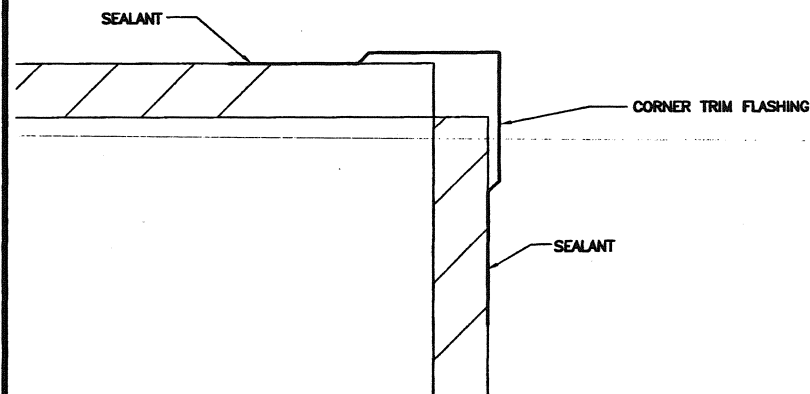
1 OVERHEAD DOOR SILL PLATE AND SEAL  
NO SCALE



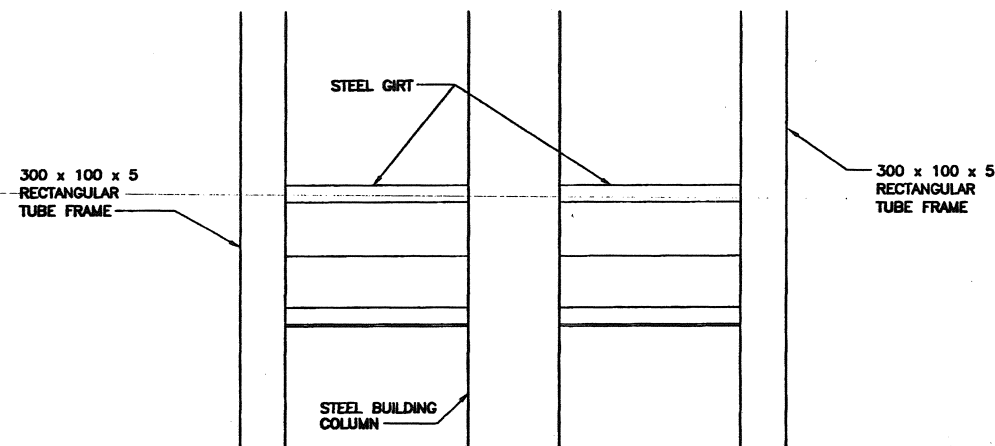
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NO SCALE



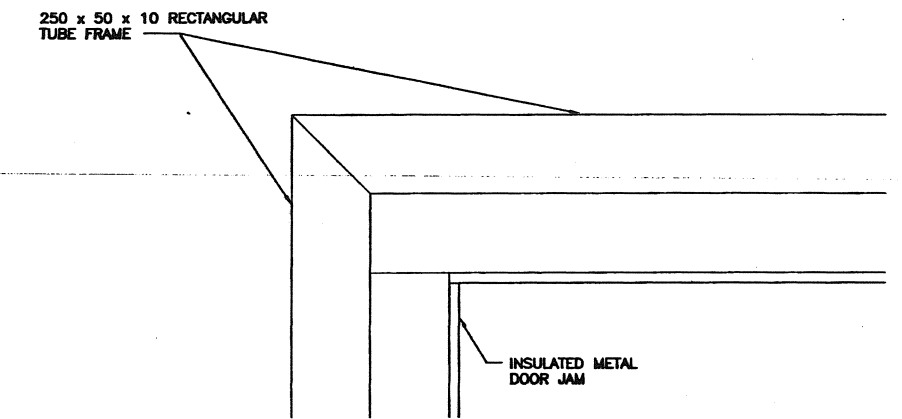
7 STEEL NOSING  
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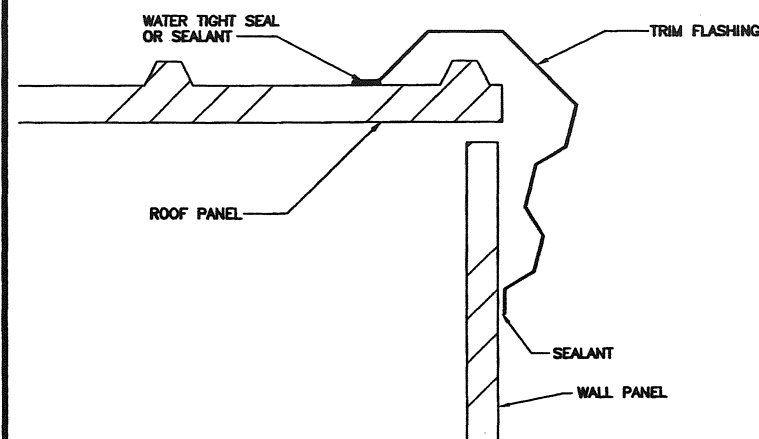
2 OUTSIDE CORNER  
NO SCALE



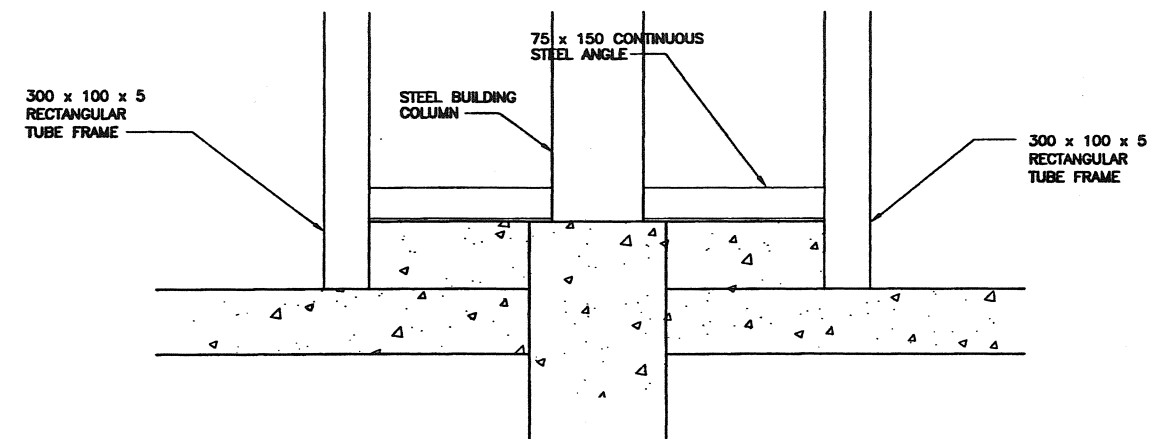
5 OVERHEAD DOOR FRAME DETAIL-MID  
NO SCALE



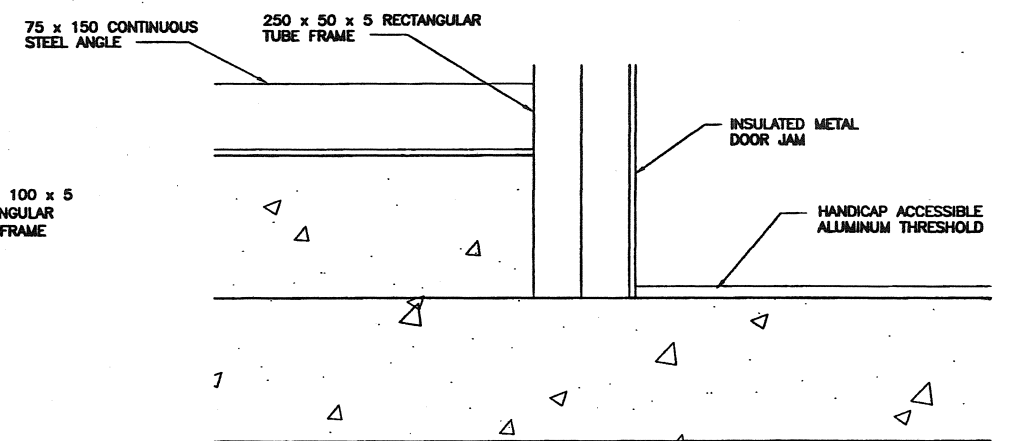
8 PERSONNEL DOOR FRAME DETAIL-TOP  
NO SCALE



3 RAKE  
NO SCALE



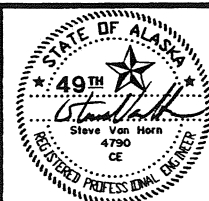
6 OVERHEAD DOOR FRAME DETAIL-BASE  
NO SCALE



9 PERSONNEL DOOR FRAME DETAIL-BASE  
NO SCALE

FILE: G:\DATA\BILLARF\BLDGDET2  
DATE: 3/22/95 1-1 V2

BY	DATE	REVISIONS



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

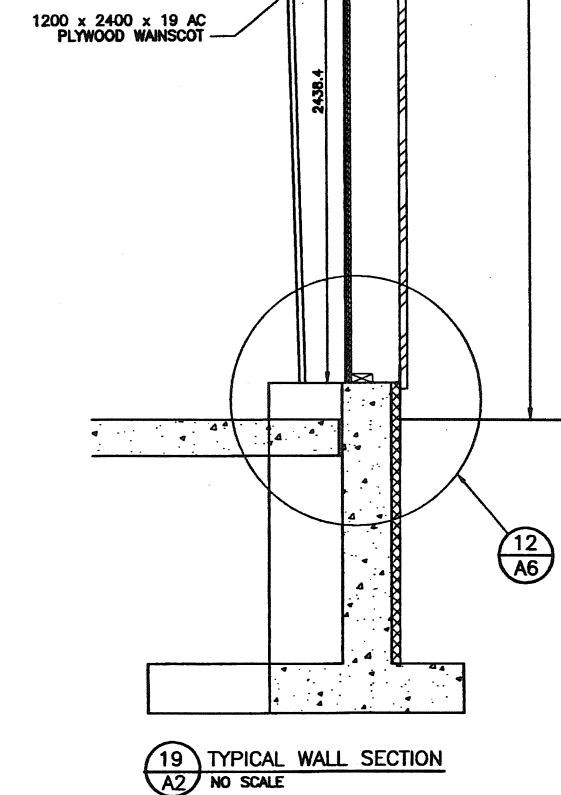
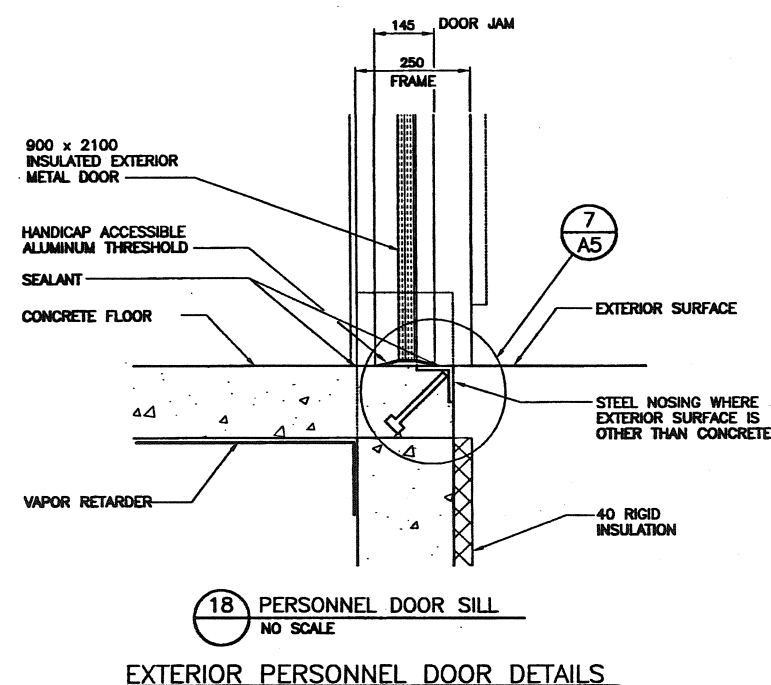
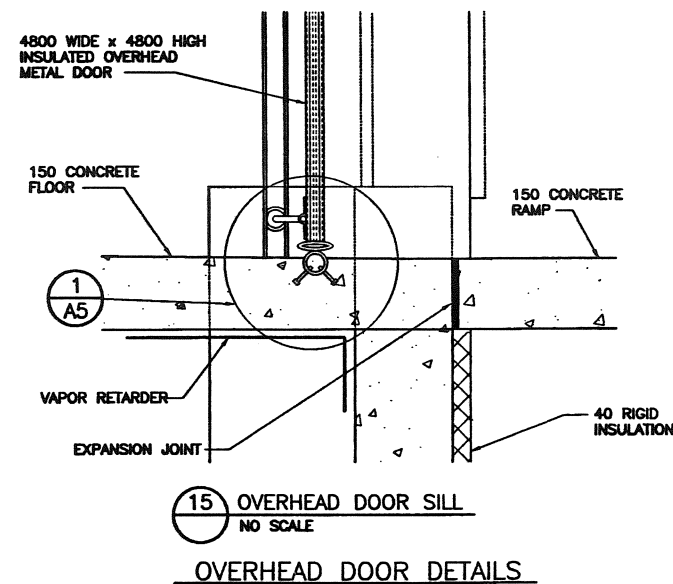
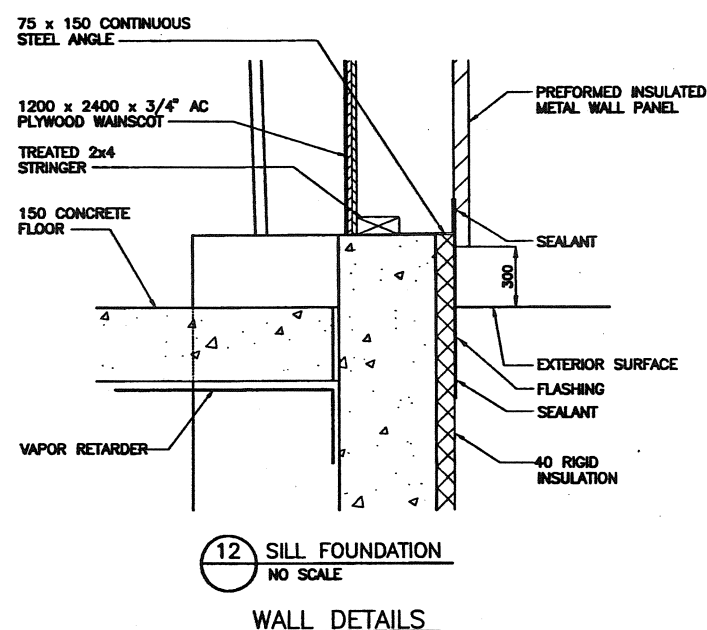
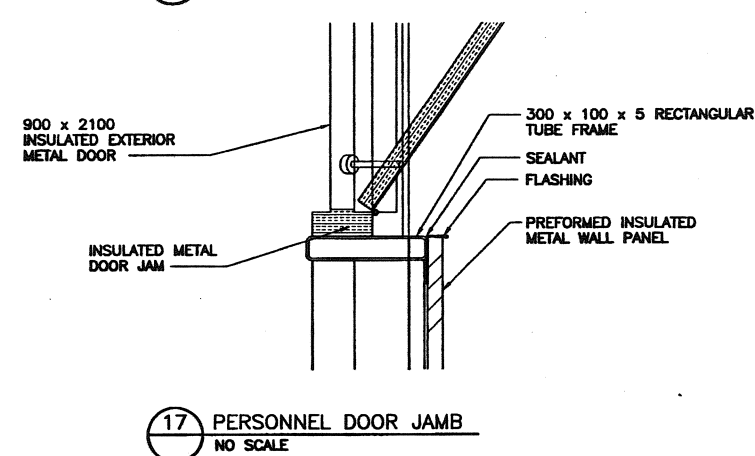
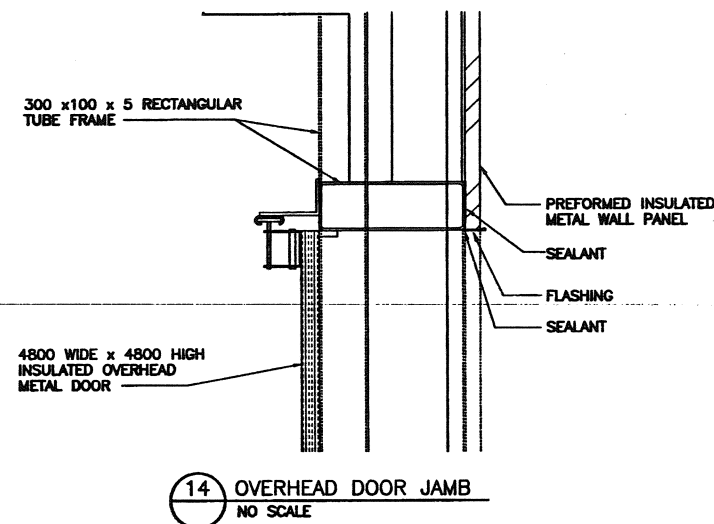
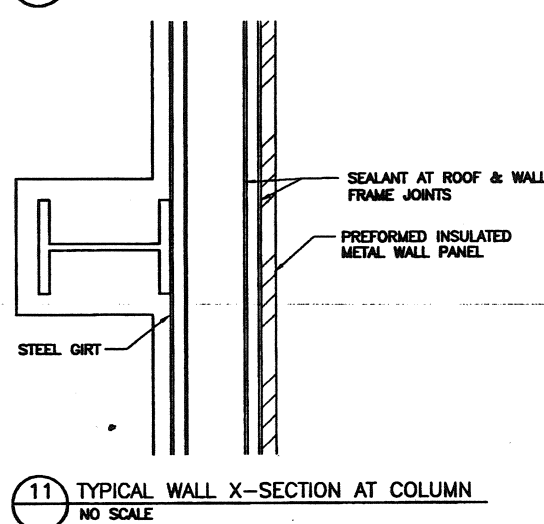
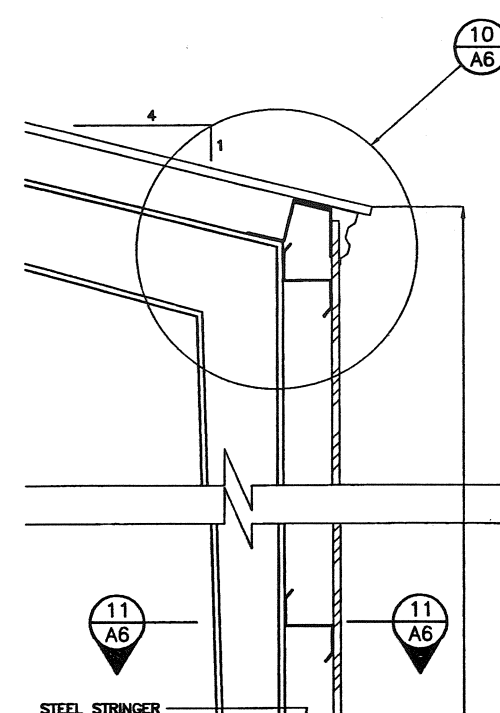
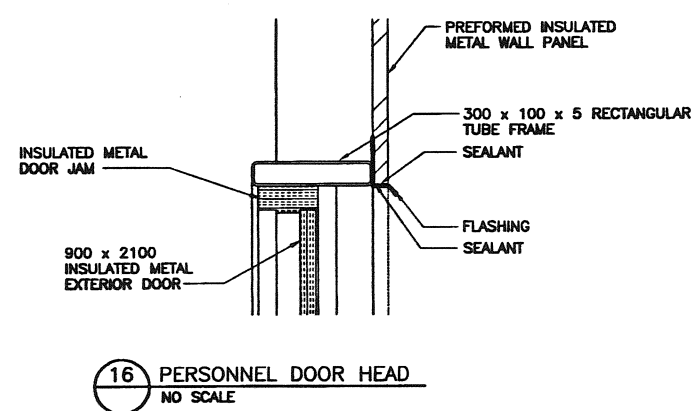
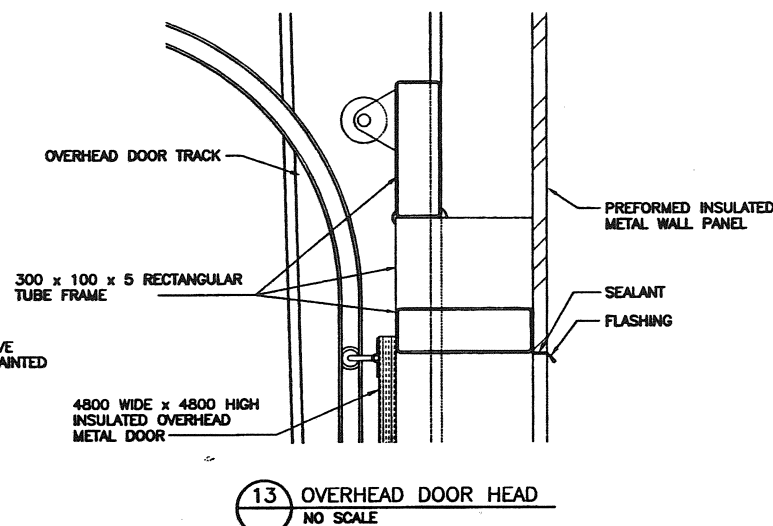
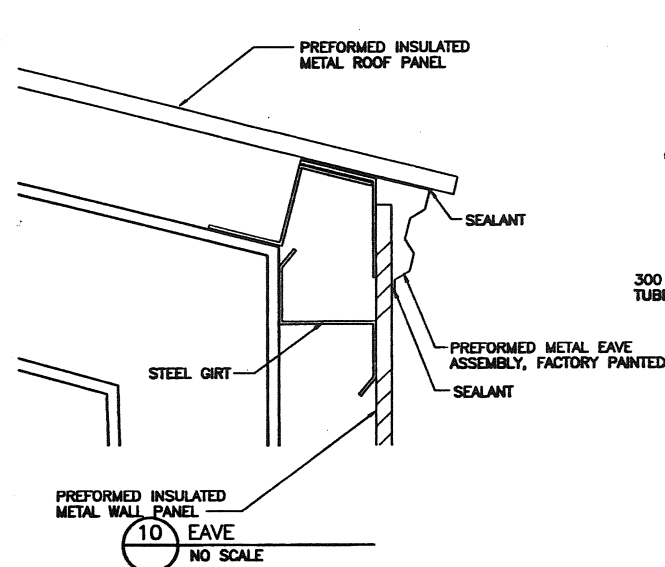
APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
STEVE VAN HORN, P.E.

APPROVED: *Steve Van Horn* PROJECT MANAGER  
STEVE VAN HORN, P.E.

DATE: 4.3.95  
DESIGN: *JP*  
CHECKED: *MB*  
DRAWN: *MB*

**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
BUILDING DETAILS

SHEET  
A5  
OF  
6

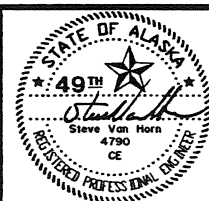


# NOTES:

1. THE DETAILS FOR THE 4800 X 4800 INSULATED OVERHEAD METAL DOORS ALSO APPLY TO THE 3600 X 3600 INSULATED OVERHEAD METAL DOORS.

FILE: G:\DATA\BILLARF\BLDGDET2  
DATE: 3/23/95 1-1 V1

BY	DATE	REVISIONS

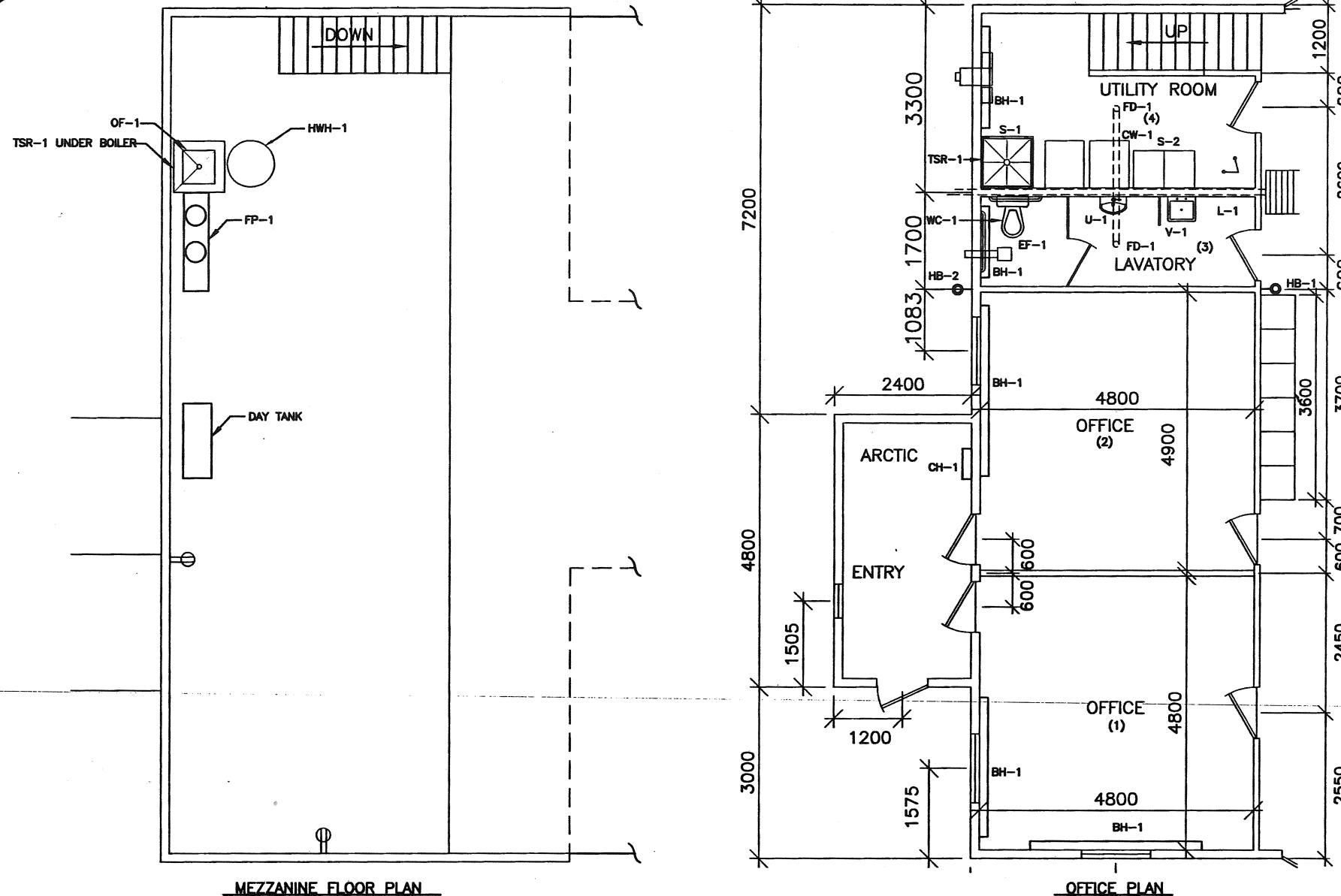


STATE OF ALASKA  
**DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES**  
CENTRAL REGION-DESIGN AND CONSTRUCTION-AVIATION  
APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
STEVE VAN HORN, P.E.  
APPROVED: *Steve Van Horn* PROJECT MANAGER  
STEVE VAN HORN, P.E.

DATE: 4-3-95  
DESIGN: *op*  
CHECKED: *MJS*  
DRAWN: *MJS*

**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
BUILDING DETAILS

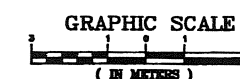
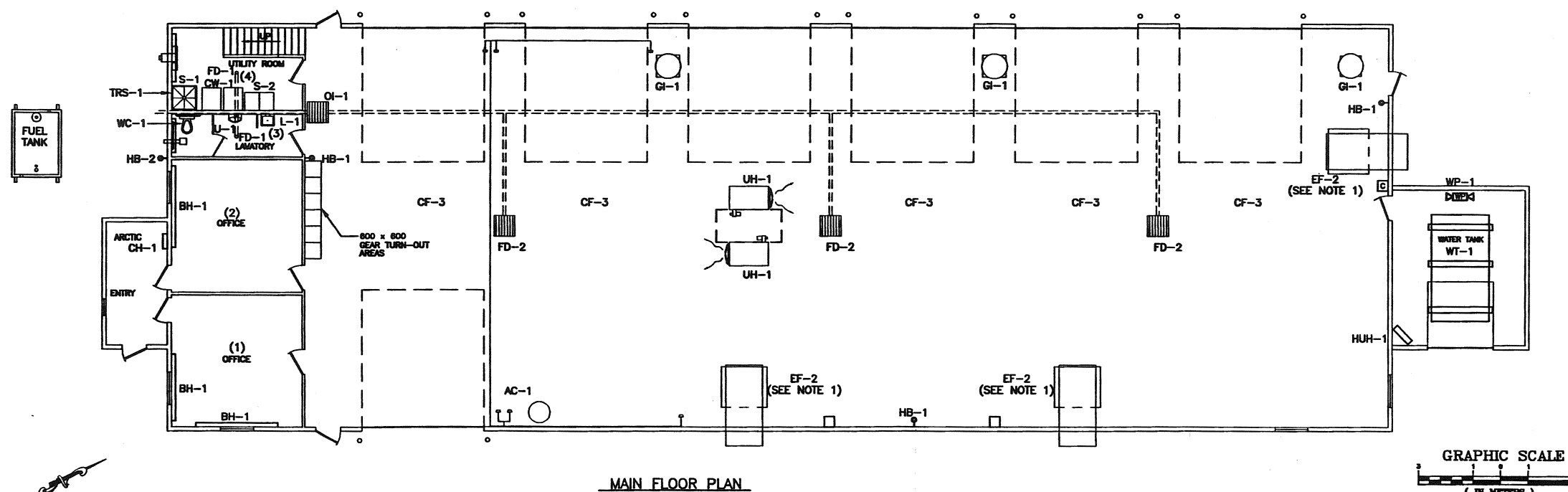
SHEET  
A6  
OF  
6



PLUMBING SCHEDULE			
ITEM NO.	ITEM	SIZE	MAKE, MODEL NUMBER (OR APPROVED EQUAL)
AC-1	AIR COMPRESSOR	302.8 L	DAC (NAPA) 82-278, 5.59kw, 230 VAC
CW-1	CLOTHES WASHER ROUGH IN	12 mm HOT & COLD, 50 mm WASTE	GUY GRAY MODEL T-200
FCO-1	FLOOR CLEAN OUT	50 mm	
FD-1	FLOOR DRAIN WITH TRAP	AS REQ'D	J.R. SMITH, 2005-A
FD-2	FLOOR DRAIN	AS REQ'D	J.R. SMITH, 2455
HB-1	HOSE BIBB, INTERIOR	19 mm	J.R. SMITH, 5760
HB-2	HOSE BIBB, EXTERIOR	19 mm	J.R. SMITH, 5609
HR-1	HOSE REEL		POTTER-ROEMER, FIG-2878
L-1	LAVATORY		AMERICAN STANDARD, 0355.012
OI-1	OIL INTERCEPTOR	95 L/M, 190L	ROCKFORD, OST-5624
S-1	SHOWER STALL	900x900x1875	FIAT PRODUCTS MODEL 646
S-2	TWIN LAKE LAUNDRY SINK	1220x510x340	AMERICAN STANDARD
TSR-1	TERRAZO SHOWER RECEPTOR	900x900x75	FIAT FLORESTONE
U-1	URINAL		AMERICAN STANDARD, 6531.019
WC-1	WATER CLOSET		AMERICAN STANDARD, 2108.500
WT-1	WATER TANK	11,356 L	WATER TANK WITH SADDLE
WP-1	WATER PUMP	1.5kw, 13 L/s	ARMSTRONG SERIES 4280 100x75x150 (4x3x6)
V-1	VANITY	2.5 x 0.48	2-DOOR VANITY WITH TOP

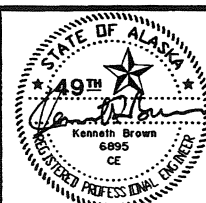
HEATING & VENTILATION SCHEDULE			
ITEM NO.	ITEM	SIZE	MAKE, MODEL NUMBER (OR APPROVED EQUAL)
OF-1	BOILER, OIL FIRED	29.3 kW OUTPUT	BURNHAM V-7 SERIES W/TANKLESS HEATER
EF-1	EXHAUST FAN, CEILING	35 L/s	GREENHECK, SP-8
EF-2	EXHAUST FAN, INLINE	2470 L/s	GREENHECK, BSO-180 - 20, 1.44kw
FP-1	FUEL PUMP		MANUAL DUPLEX, SUNDSTRAND, WEBSTER OR EQUAL
FP-2	FUEL OIL DAYTANK		
FT-1	FUEL OIL STOR. TANK W/ CLOSED CONTAINMENT DIKE	11,356 L	ACE TANK & EQUIPMENT
GI-1	GRAVITY INLET		GREENHECK, GRS-24
UH-1	UNIT HEATER, OIL FIRED	132kW OUTPUT	POWRMATIC UH-450
CF-3	CEILING FAN	5,900 L/s	LEADING EDGE 1'D. MOD. 4820-1
HWH-1	OIL-FIELD HOT WATER HEATER	189 L	BOCK, BOKS1E
HUH-1	HYDRONIC UNIT HEATER	5.3kw OUTPUT	STERLING MODEL HE-18 OR EQUAL
CH-1	HYDRONIC CABINET HEATER	3kw OUTPUT	BEACON MORRIS TWIN-FLO II OR EQUAL W/ SURFACE MOUNT CABINET
BH-1	HYDRONIC BASE HEAT	2.4m, 1.8m, 1.2m	STERLING LB-2 OR EQUAL

- NOTES:**
1. THE INTAKE FOR THE EF-2 FANS SHALL BE INSTALLED TO 300mm FROM THE FLOOR.
  2. DOMESTIC HOT WATER SUPPLY SHALL BE VALVED TO ALLOW USE OF EITHER THE BOILER TANKLESS HEATER OR THE HOT WATER HEATER (SUMMER).



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DATE: 3/28/95 1=1 V2

BY	DATE	REVISIONS



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

APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
STEVE VAN HORN, P.E.  
APPROVED: *Steve Van Horn* PROJECT MANAGER  
STEVE VAN HORN, P.E.

DATE 4-3-95  
DESIGN *CB*  
CHECKED  
DRAWN *MB*

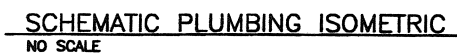
**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
PLUMBING PLAN,  
HEATING AND VENTILATION PLAN

SHEET  
M1  
OF  
3



1. TANK FILL PIPE SHALL BE INSTALLED TO WITHIN 50 FROM BOTTOM TANK.
2. DIKE DRAIN SYSTEM SHALL BE INSTALLED INTERNALLY OR COUPLED VERY SHORT TO PREVENT DAMAGED OR ACCIDENTAL OPENING
3. PROVIDE MANHOLE ACCESS ON THE CONTAINMENT DIKE.
4. DETAIL IS SCHEMATIC ONLY AND IS INTENDED ONLY TO SHOW MAJOR FEATURES. THE ENTIRE TANK ASSEMBLY SHALL BE U.L. APPROVED AND SHALL CONFORM TO U.L. 142 SPECIFICATIONS.

**NO SCALE**



NOTE: VALVING IS NOT SHOWN

NO SCALE

APPROVED: Steve Van Horn  
STEVE VAN HORN, P.E. DESIGN SECTION CHIEF

APPROVED: Steve Van Horn  
STEVE VAN HORN, P.E. PROJECT MANAGER

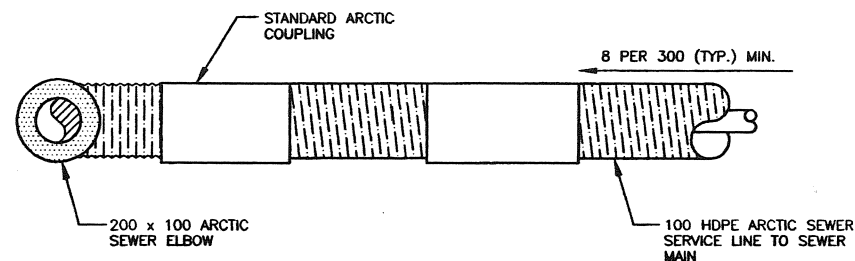
**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
FUEL SYSTEM SCHEMATIC  
FLOOR PLAN AND PLUMBING ISOMETRIC

SHEET  
M2  
OF  
3

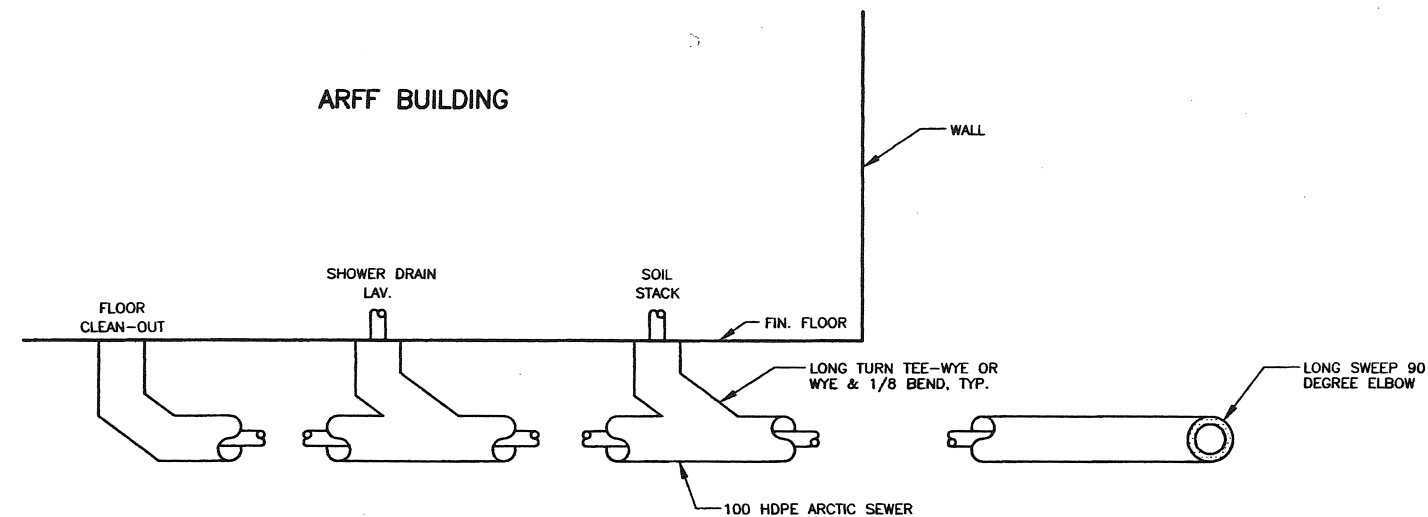


# NOTES:

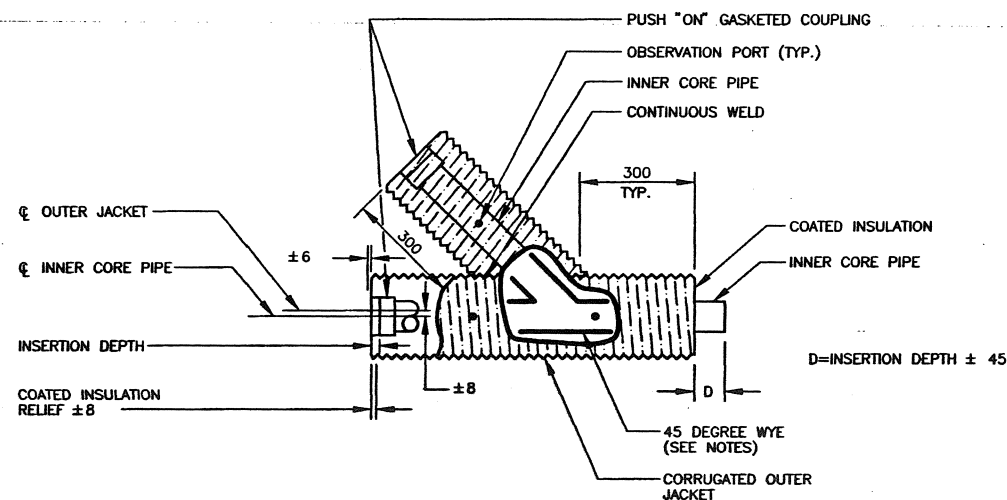
1. THE SEWER CONNECTION SHALL INCLUDE ALL PIPE AND CONNECTIONS BENEATH THE FLOOR.
2. THE EQUIPMENT STORAGE BUILDING IS CURRENTLY CONNECTED TO A LEACH FIELD @ APPROX. R/W STA. 1+159.56, 380.0 LEFT OF R/W CENTERLINE. THIS LEACH FIELD SHALL BE EXCAVATED, REMOVED, AND PLACED IN A PERMITTED SOLID WASTE AREA.



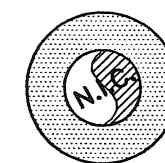
**SEWER CONNECTION DETAIL**  
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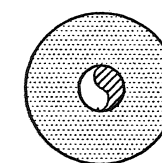
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NO SCALE



**ARCTIC SEWER WYE**  
NO SCALE



200



100

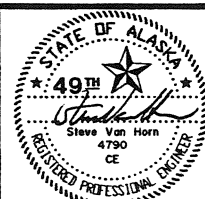
**HIGH DENSITY POLYETHELENE (HDPE) ARCTIC PIPE**  
NO SCALE

# NOTES:

1. DRAWING NOT TO SCALE
2. SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS
3. WYE SHALL BE OF SAME RESIN AS INNER CORE PIPE
4. WYE MAY BE INJECTION MOLDED OR FABRICATED
5. INJECTION MOLDED WYES SHALL BE 1105 KPa RATED
  - USE SOR 26 INNER CORE PIPE
  - ENCASE ENTIRE WYE IN FIBERGLASS (8 THICKNESS)
  - INTERIOR OF ALL INNER CORE PIPE SHALL BE SMOOTH WITH NO UPS AT RUN/LEG AND BUTT FUSION JOINTS
6. THIS DETAIL IS FOR GENERAL INFORMATION. THE CONTRACTOR SHALL FABRICATED ALL REQUIRED ELBOWS, 90'S, 45'S, 'T'S, CLEANOUTS, ETC. SHOP DRAWINGS FOR ALL FABRICATED PIPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

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DATE: 3/28/95 1-1 V1

BY: DATE: REVISIONS:

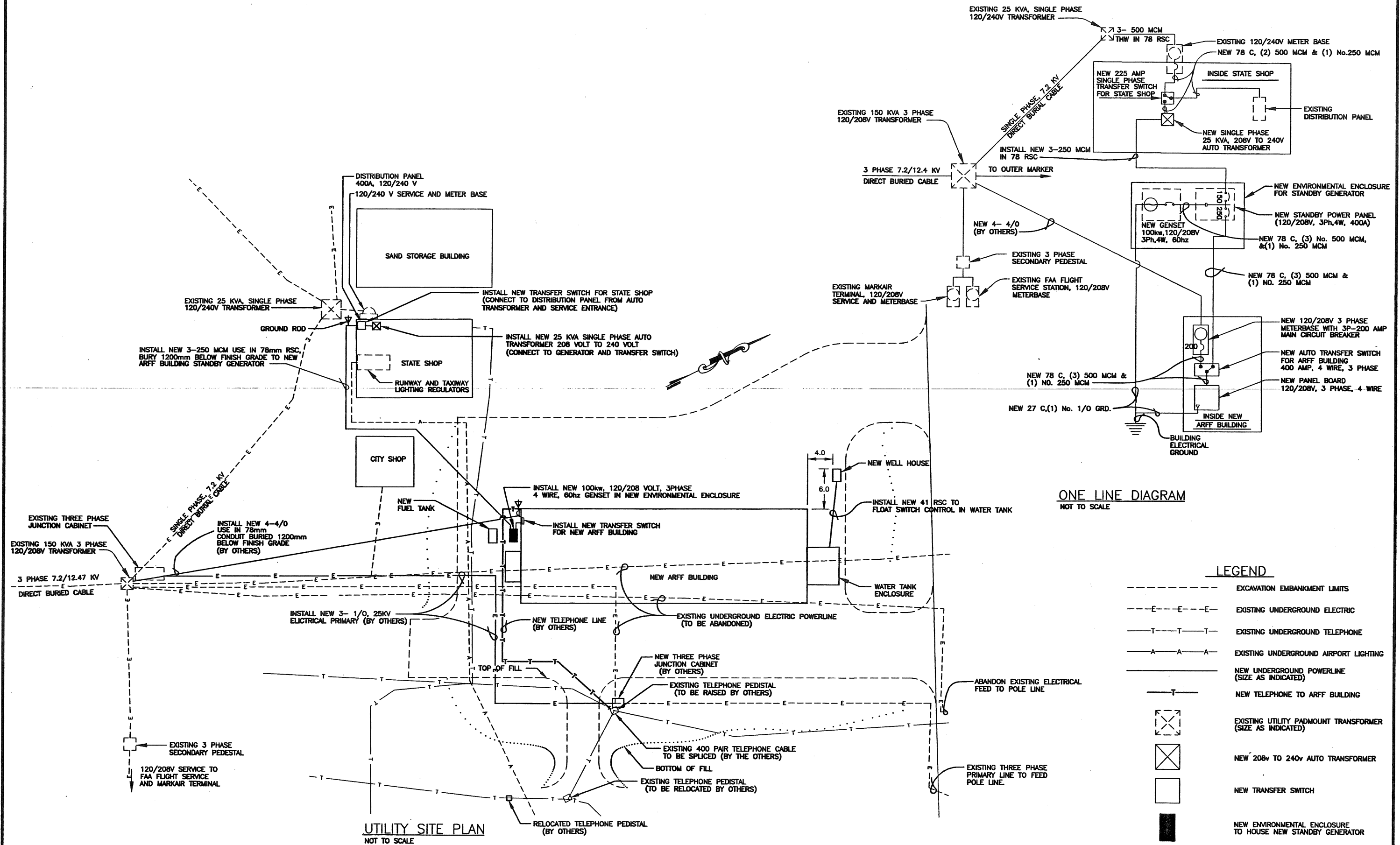



STATE OF ALASKA  
**DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES**  
CENTRAL REGION-DESIGN AND CONSTRUCTION-AVIATION  
APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
STEVE VAN HORN, P.E.  
APPROVED: *Steve Van Horn* PROJECT MANAGER  
STEVE VAN HORN, P.E.

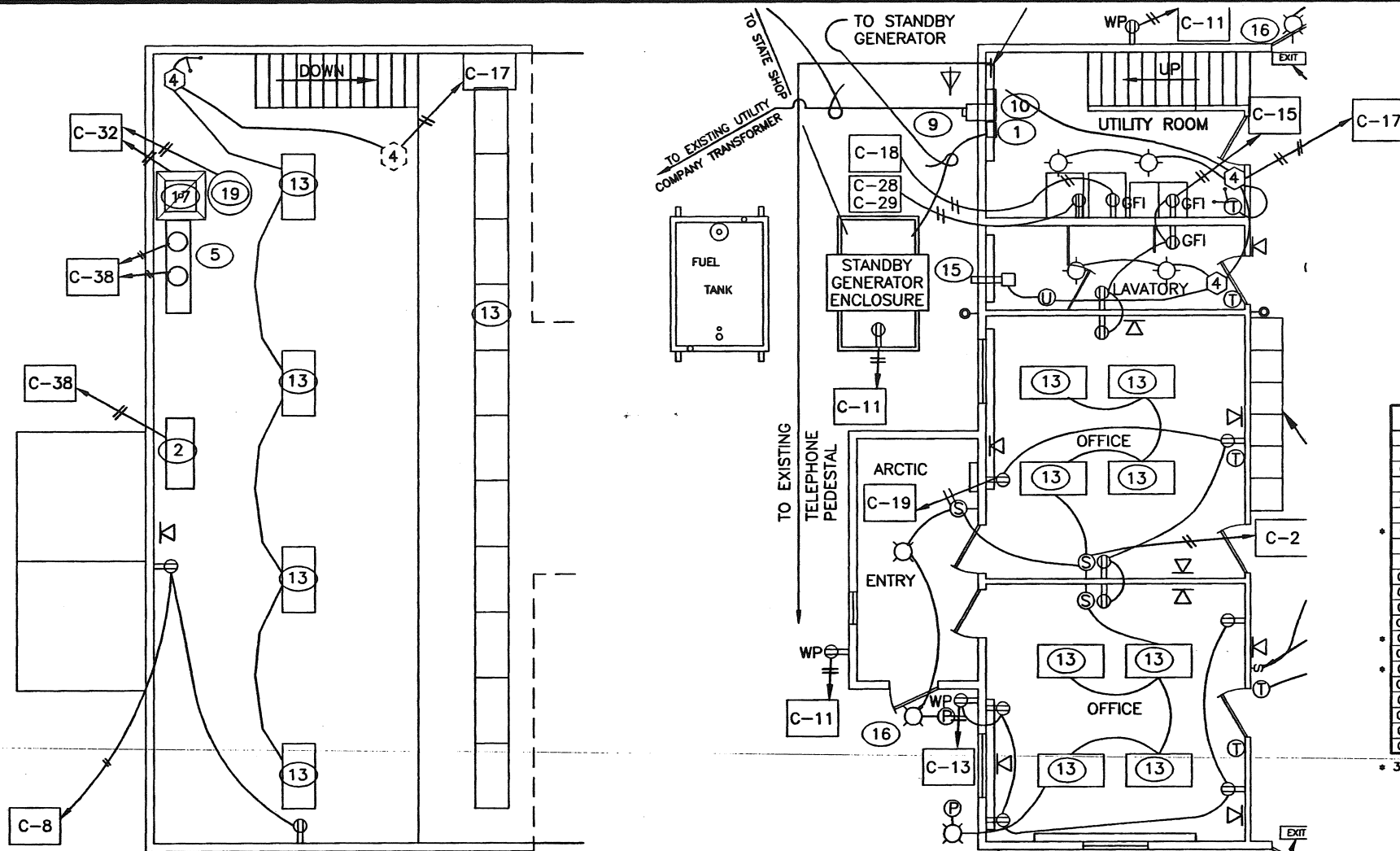
DATE: 4-3-95  
DESIGN: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
DRAWN: *MJY*

**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
SEWER CONNECTION DETAIL

SHEET  
M3  
OF  
3

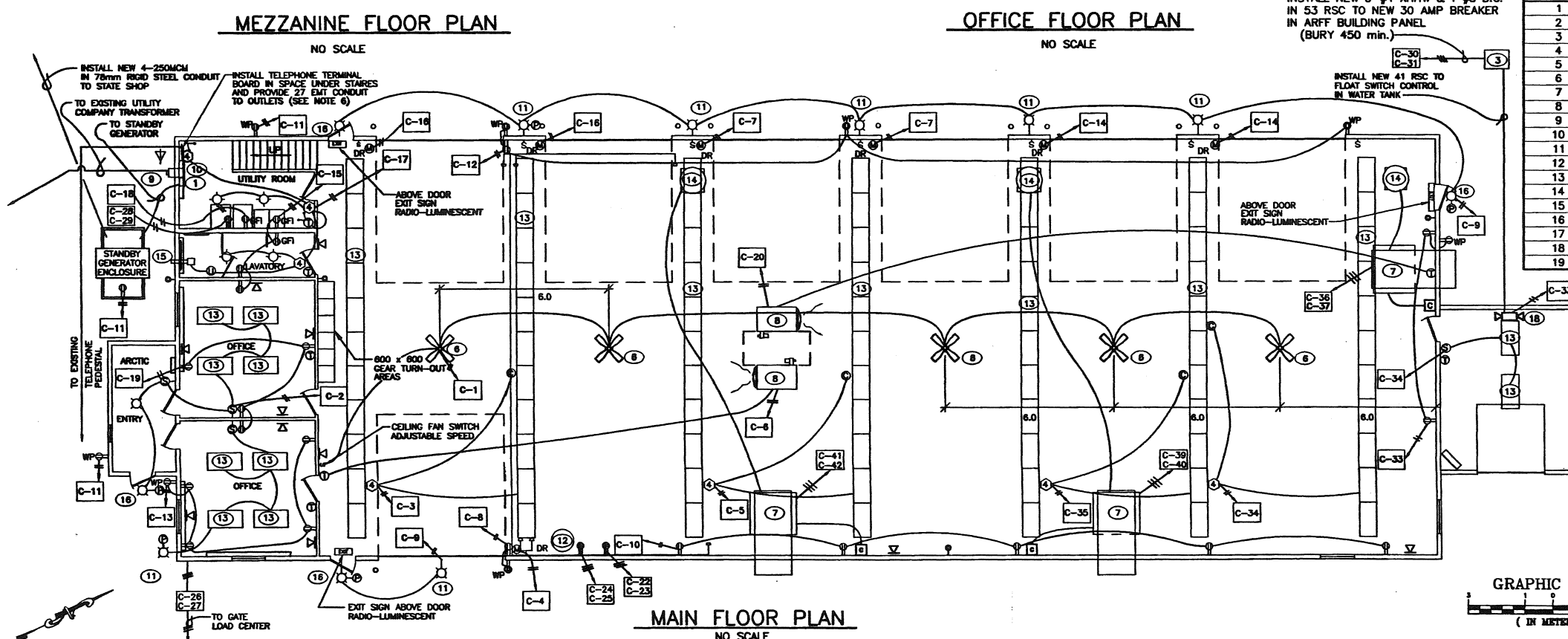


FILE: G:\DATA\ILLARF\DWG\GENERATE DATE: 3/22/95 1=1 V1		BY _____ DATE _____ REVISIONS _____				STATE OF ALASKA <b>DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES</b> CENTRAL REGION-DESIGN AND CONSTRUCTION-AVIATION APPROVED: <i>Steve Van Horn</i> DESIGN SECTION CHIEF APPROVED: <i>Steve Van Horn</i> PROJECT MANAGER		DATE: 4-3-95 DESIGN: <i>CMD</i> CHECKED: _____ DRAWN: <i>MAY</i>		<b>DILLINGHAM AIRPORT</b> ARFF BUILDING 51347 A.I.P. No. 3-02-0078-07 ELECTRICAL SITE PLAN AND STANDBY GENERATOR INSTALLATION		SHEET E1 OF 4	
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225A, 208V, 3Ø, 42-C

PANEL SCHEDULE	
C-1 CEILING FANS	C-22 208V OUTLET
C-2 OFFICE LIGHTS	C-23 REAR OF SHOP (50A)
C-3 SHOP LIGHTS	C-24 AIR
C-4 DOOR OPERATOR #7	C-25 COMPRESSOR (50A)
C-5 SHOP LIGHTS	C-26 GATE
C-6 UNIT HEATER #1	C-27 LOAD CENTER (30A)
C-7 DOOR OPERATOR #3, #4	C-28 DRYER
C-8 OUTLETS	C-29 DRYER (30A)
C-9 OUTSIDE LIGHTS	C-30 WATER
C-10 OUTLETS	C-31 PUMP (30A)
C-11 OUTSIDE OUTLETS	C-32 OIL FIRED BOILER & WH
C-12 OUTLETS	C-33 OUTLETS, WATER PUMP
C-13 OFFICE OUTLETS	C-34 SHOP LIGHTS
C-14 DOOR OPERATOR #5, #6	C-35 SHOP LIGHTS
C-15 LAVATORY OUTLETS	C-36 EXHAUST
C-16 DOOR OPERATOR #1, #2	C-37 FAN EF-2, GI-1
C-17 LAVATORY LIGHTS	C-38 FUEL PUMP
C-18 WASHER	C-39 EXHAUST
C-19 OFFICE OUTLETS	C-40 FAN EF-2, GI-1
C-20 UNIT HEATER #2	C-41 EXHAUST
C-21 SPARE	C-42 FAN EF-2, GI-1

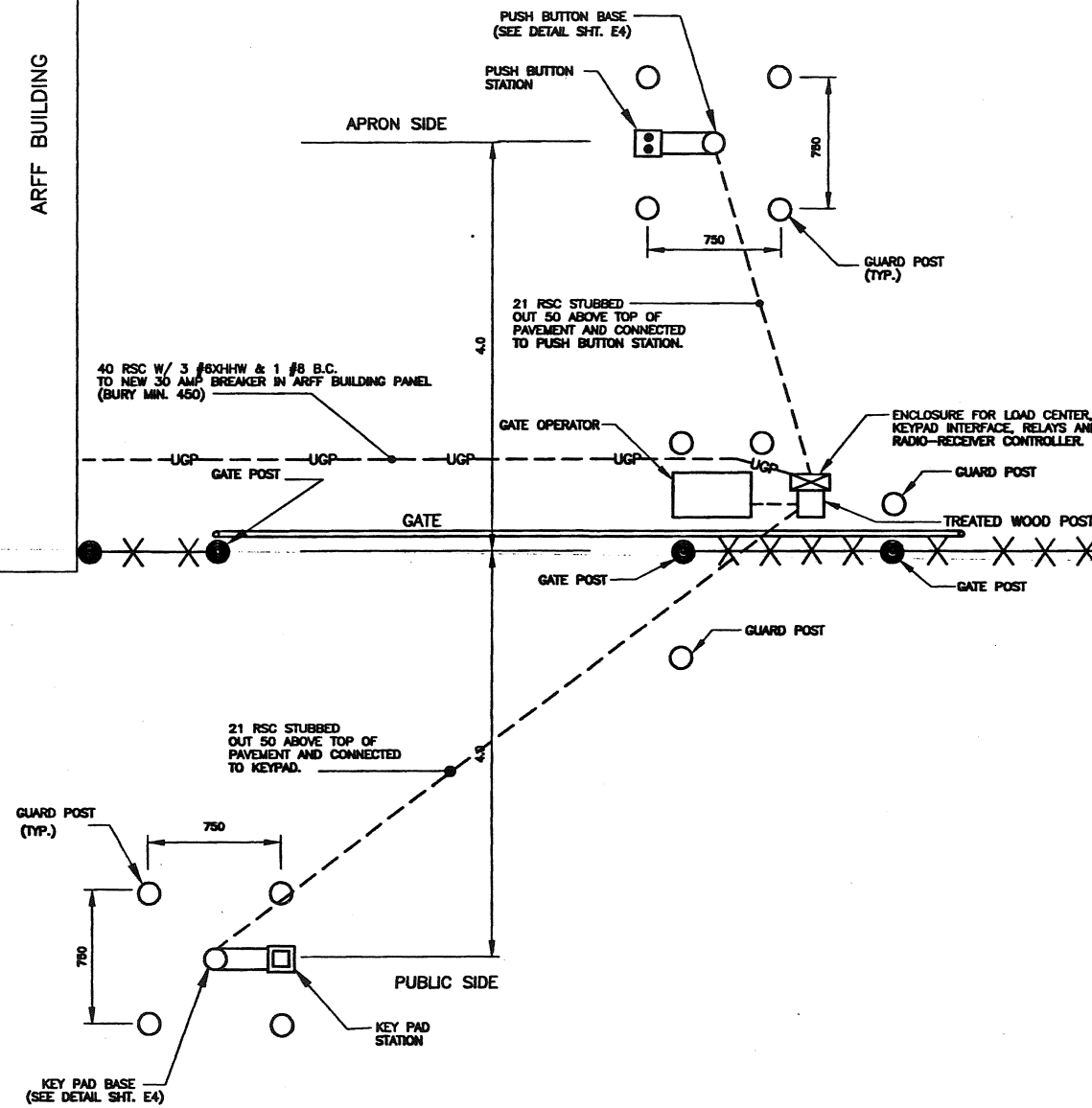


ITEM NUMBER	ITEM	SIZE	VOLTS	MAKE, MODEL NUMBER (OR APPROVED EQUAL)
1	AUTOMATIC TRANSFER SWITCH	400A	120/208	4 WIRE, 3 PHASE
2	DAY TANK			GOULD MODEL 18GS30412
3	SUBMERSIBLE WATER PUMP	3hp	208	WATT STOPPER MODEL A120E
4	POWER PACK	20A	120	
5	FUEL PUMP		120	
6	CEILING FAN, 1200 W/SPEED CONTROL	5,900 L/s	120	LEADING EDGE, I.D. MODEL 4820-1
7	EXHAUST FAN	2,470 L/s	120/208	GREENHECK MODEL BSQ-180-20, 2hp
8	OIL FIRED UNIT HEATER	132kw	120	POWRMATIC MODEL UH-450
9	METER BASE/MAIN BREAKER COMB.	200 AMP	120/208	
10	ELECTRICAL PANEL	200 AMP	120/208	3 PHASE
11	HIGH PRESSURE SODIUM FIXTURE	100W	120	HUBBEL PVL-0100S-111
12	AIR COMPRESSOR	5.6 kw	208	DAC (NAPA) 82-278
13	2-TUBE FLOUR. HANGING SHOP FIX.	1200	120	PROVIDE W/ T-8 ELECTRONIC BALLAST
14	GRAVITY INLET	600 x 600	120	GREENHECK MODEL GRS-24
15	CEILING EXHAUST FAN	35 L/s	120	GREENHECK MODEL SP-6
16	HIGH PRESSURE SODIUM TYPE FIX.	70W	120	
17	OIL FIRED BOILER		120	BURNHAM V-1 SERIES, W/GFS UP2696F
18	WATER PUMP	1.5kw	120	ARMSTRONG SERIES 4280
19	HOT WATER HEATER	10bw	120	BOCK MOD. BOK51E

- NOTES:
- INSTALL NEW 200 AMP, 3Ø 120/208 VOLT METER MAIN COMBINATION AND UNDERGROUND SERVICE.
  - MOUNT CEILING FANS AS HIGH AS POSSIBLE ABOVE FLOOR ELEVATION. HANG EACH FAN FROM A CEILING MOUNTED JUNCTION BOX.
  - MOUNT SWITCHES AND RECEPTACLES 1200 ABOVE TOP OF FOOTING.
  - ALL LIGHTING WIRING SHALL BE IN METALLIC CONDUIT. MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER. CONDUIT RUNS SHALL BE INSTALLED AT EAVE HEIGHT.
  - WHEN INSTALLING CI-200 SENSORS, TURN THE SENSITIVITY TO MAXIMUM, TURN THE TIME DELAY TO 16 MINUTES MINIMUM USING DIP SWITCHES PER MANUFACTURERS' INSTALLATION INSTRUCTIONS.
  - CONNECT TELEPHONE OUTLETS TO TERMINAL BOARD WITH 6 PAIR TELEPHONE CABLE IN 27 EMT CONDUIT.
  - EXHAUST FANS AND GRAVITY INLETS SHALL BE WIRED TO AUTOMATICALLY ACTUATE WHEN CARBON MONOXIDE SENSORS DETECT UNSAFE LEVELS.

FILE: g:\data\BLLARF\dwg\BLLGPLAN DATE: 3/21/95 1-1 V3	BY: _____ DATE: _____ REVISIONS: _____		STATE OF ALASKA <b>DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES</b> CENTRAL REGION-DESIGN AND CONSTRUCTION-AVIATION APPROVED: <i>Steve Van Horn</i> STEVE VAN HORN, P.E. DESIGN SECTION CHIEF APPROVED: <i>Steve Van Horn</i> STEVE VAN HORN, P.E. PROJECT MANAGER	DATE 4-3-95 DESIGN <i>cmf</i> CHECKED _____ DRAWN <i>my</i>	<b>DILLINGHAM AIRPORT</b> ARFF BUILDING 51347 A.I.P. No. 3-02-0078-07 ELECTRICAL FLOOR PLAN	SHEET E2 OF 4
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ARFF BUILDING



# AUTOMATIC GATE DETAILS

NO SCALE

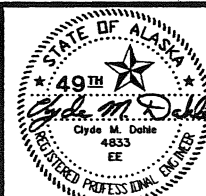
## NOTES:

THE 6.5 AUTOMATED GATE SYSTEM SHALL INCLUDE:

1. ELECTRIC GATE OPERATOR.
2. KEY PAD CONTROL SYSTEM FOR GATE OPERATOR.
3. RADIO RECEIVER - CONTROLLER SYSTEM FOR GATE OPERATORS.
4. PUSH BUTTON STATION FOR GATE OPERATOR (OPEN, STOP AND CLOSE).
5. TIMER TO AUTOMATICALLY CLOSE GATE AFTER OPENING.
6. SEE SHEET E4 FOR TYPICALS AND WIRING.

FILE: G:\DATA\ILLARF\DWG\AUTOGATE  
DATE: 3/22/95 1-1 V1

BY DATE REVISIONS



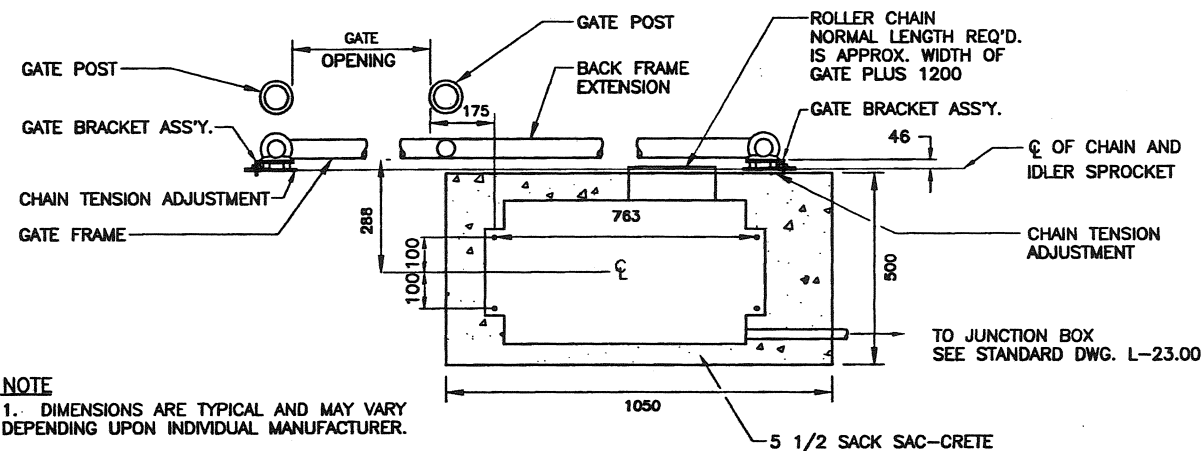
## STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION-DESIGN AND CONSTRUCTION-AVIATION

APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
STEVE VAN HORN, P.E.  
APPROVED: *Steve Van Horn* PROJECT MANAGER  
STEVE VAN HORN, P.E.

DATE 4.3.95  
DESIGN *cmf*  
CHECKED  
DRAWN *MJG*

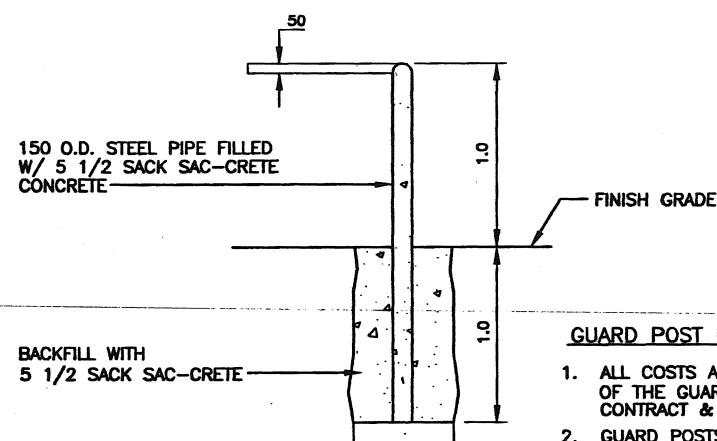
DILLINGHAM AIRPORT  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
AUTOMATIC GATE DETAILS

SHEET  
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**NOTE**  
1. DIMENSIONS ARE TYPICAL AND MAY VARY DEPENDING UPON INDIVIDUAL MANUFACTURER.

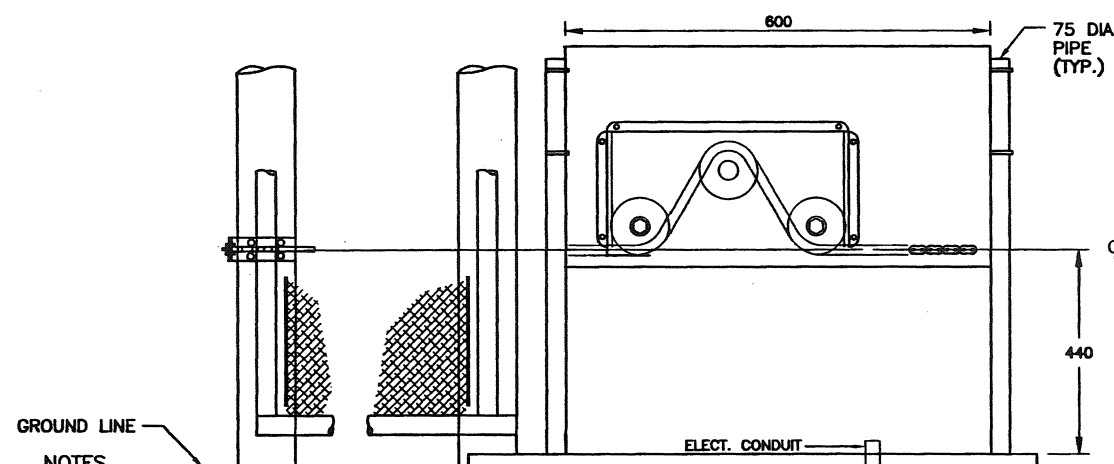
**CONCRETE PAD MOUNTING DETAIL  
PLAN**



**GUARD POST NOTES**

1. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE GUARD POSTS SHALL BE INCIDENTAL TO THE CONTRACT & NO SEPERATE PAYMENT SHALL BE MADE.
2. GUARD POSTS TO BE INSTALLED IN THE SAME CONCRETE BASE AS THE CARD READER OR PUSH BUTTON POLE.

**GUARD POST DETAIL**



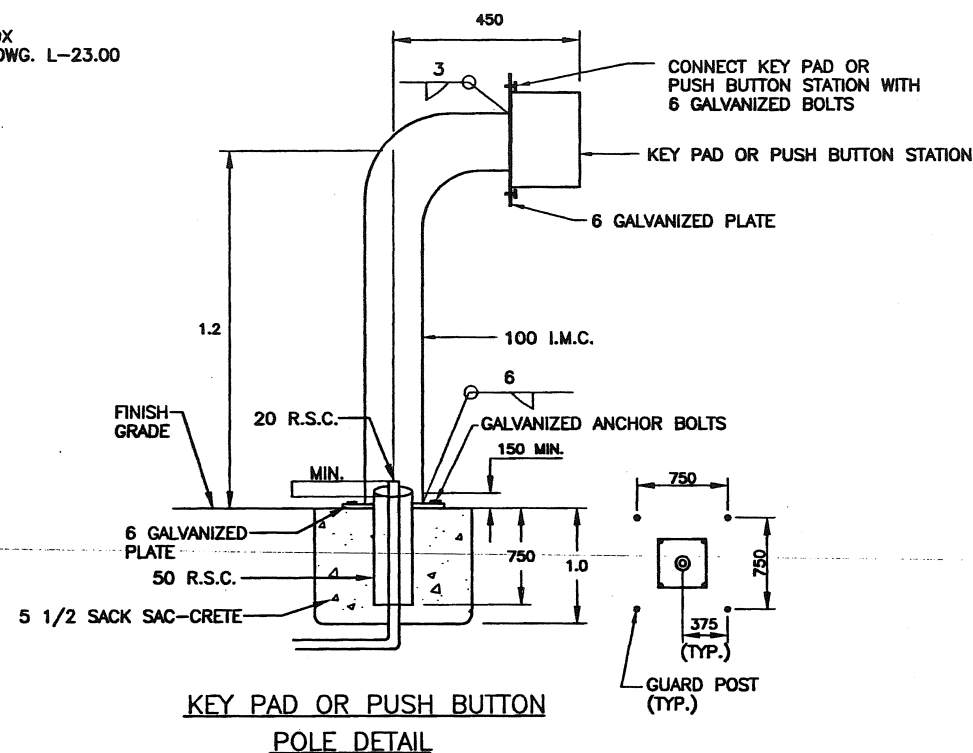
**NOTES**

1. IF CONDUIT IS TO RUN THROUGH FOUNDATION PROVISION FOR THIS SHOULD BE MADE BEFORE POURING CONCRETE.
2. AFTER CONCRETE HAS SET ( A MINIMUM OF 7 DAYS) THEN LOCATE OPERATOR IN POSITION AND LINE UP WITH FACE OF GATE AT 46 DIM. FROM FACE OF GATE TO CENTERLINE OF ROLLER CHAIN IDLER SPROCKETS ON OPERATOR. MARK FOR AND INSTALL BOLT ANCHORS (PROVIDED WITH OPERATORS) IN CONCRETE.
3. DIMENSIONS ARE TYPICAL AND MAY VARY DEPENDING UPON INDIVIDUAL MANUFACTURER.

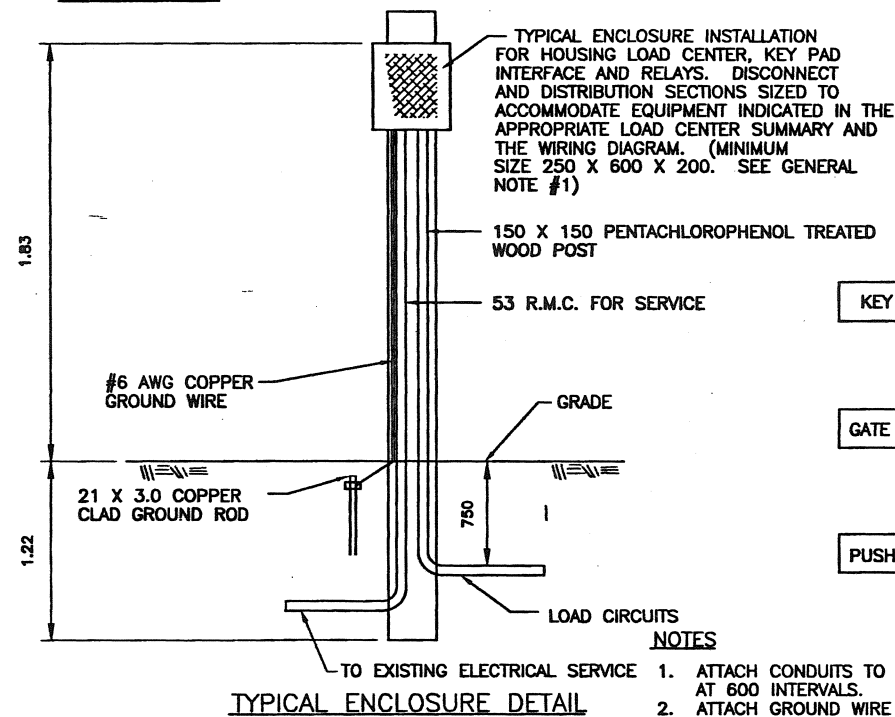
**SLIDING GATE OPERATOR DETAIL  
ELEVATION**

**GENERAL NOTES**

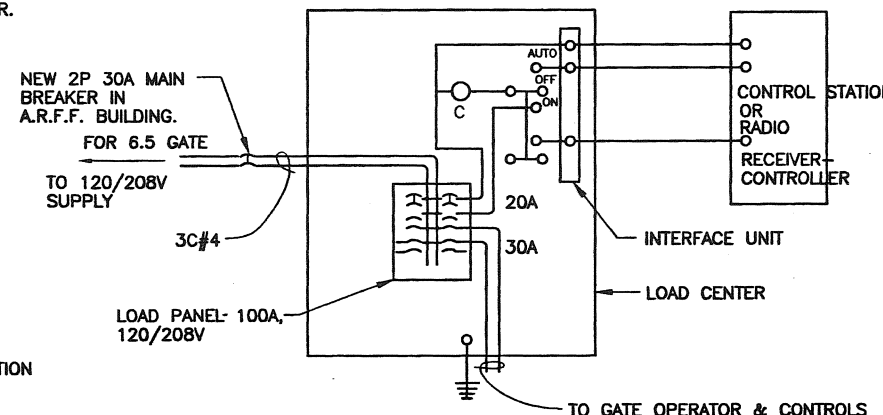
1. ENCLOSURE, LOAD CENTER, RADIO RECEIVER, KEY PAD INTERFACES, RELAYS, WIRE AND ALL CONDUITS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
2. GATE OPERATOR SHALL BE PROVIDED BY THE GATE MANUFACTURER.
3. THE LOCATION OF THE GATE OPERATORS WILL BE DETERMINED IN THE FIELD.
4. EACH GATE OPERATOR CONTROL SYSTEM SHALL BE CONFIGURED AS NOTED ON THE PLANS OR AS WRITTEN IN THE SPECIFICATIONS.



**KEY PAD OR PUSH BUTTON  
POLE DETAIL**



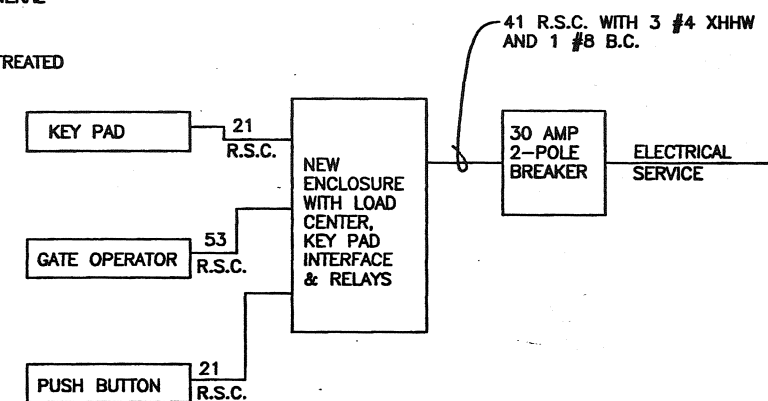
**TYPICAL ENCLOSURE DETAIL**



**TYPICAL LOAD CENTER WIRING DIAGRAM**

**LOAD CENTER NOTES**

1. CONNECT THE GROUND BUS OF THE LOAD CENTER TO THE GROUND ROD WITH A #6 SOFT DRAWN BARE COPPER CONDUCTOR & APPROVED CONNECTORS.
2. ALL SWITCHES & CIRCUIT BREAKERS SHALL BE LABELED FOR CIRCUIT & DIRECTION IN A PROMINENT MANNER.
3. ALL SWITCHES & CIRCUIT BREAKERS REQUIRED TO PERFORM THE CONTROL FUNCTIONS SHOWN ON THE PLANS OR SPECIFICATIONS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
4. ALL CIRCUIT BREAKERS SHALL BE SIZED AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
5. THE LOCATION OF THE LOAD CENTERS WILL BE DETERMINED IN THE FIELD.
6. NEW CIRCUIT BREAKER SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR IN THE NEW PANEL IN THE A.R.F.F. BUILDING.



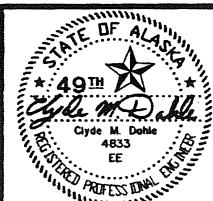
**TYPICAL ONE-LINE WIRING DIAGRAM**

**NOTES**

1. ATTACH CONDUITS TO POST AT 600 INTERVALS.
2. ATTACH GROUND WIRE TO POST AT 300 INTERVALS.

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BY DATE REVISIONS



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

APPROVED: *Steve Van Horn* DESIGN SECTION CHIEF  
STEVE VAN HORN, P.E.  
APPROVED: *Steve Van Horn* PROJECT MANAGER  
STEVE VAN HORN, P.E.

DATE  
DESIGN *CMD*  
CHECKED  
DRAWN *MJG*

**DILLINGHAM AIRPORT**  
ARFF BUILDING  
51347  
A.I.P. No. 3-02-0078-07  
AUTOMATIC GATE  
ELECTRICAL DIAGRAMS

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