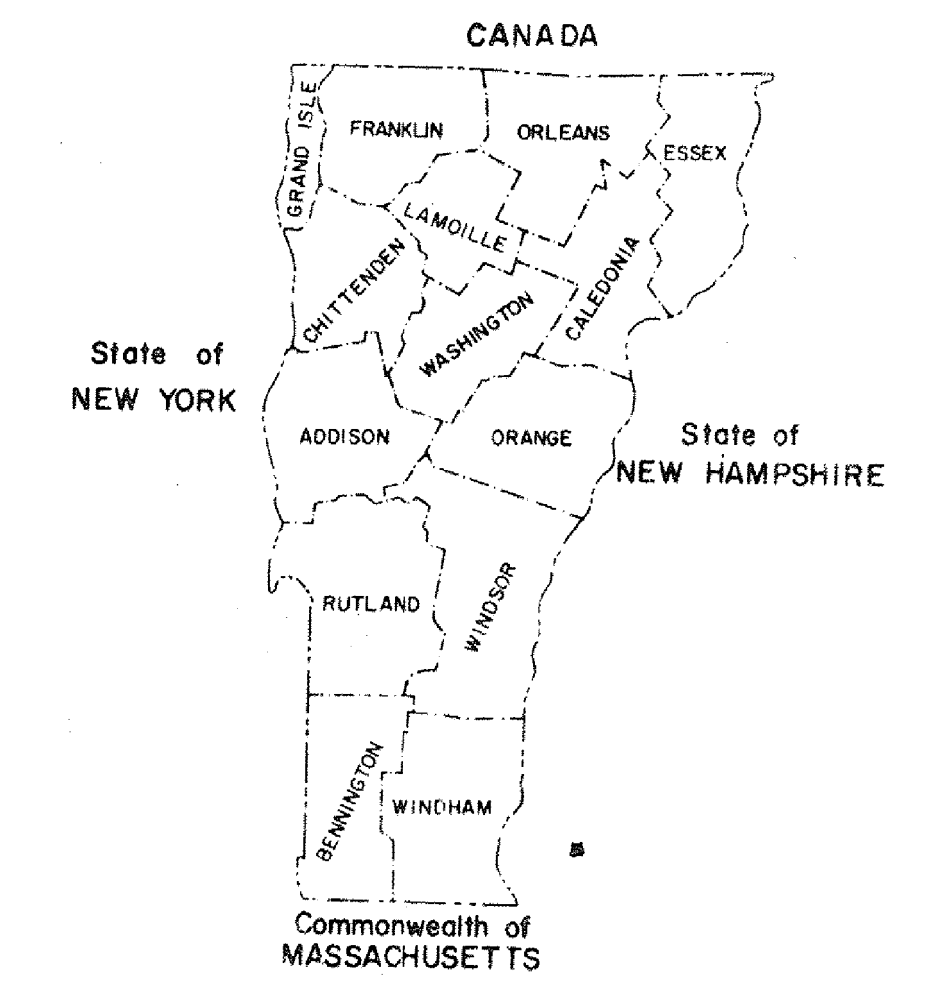


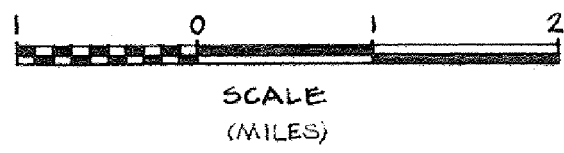
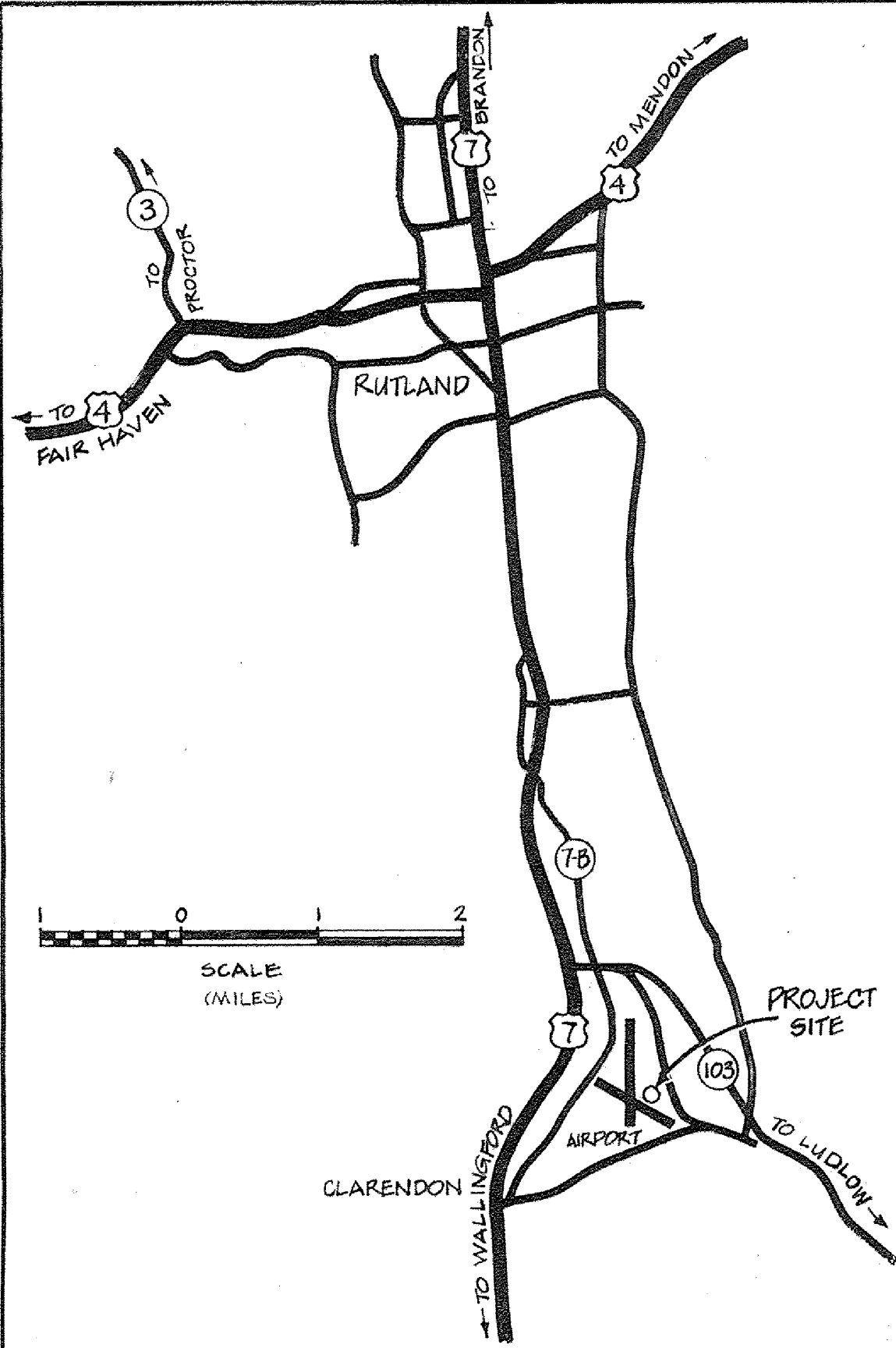
STATE OF VERMONT AGENCY OF TRANSPORTATION



CONTRACT PLANS
THESE PLANS DO NOT REFLECT
CHANGES MADE ON THE PROJECT.

TERMINAL BUILDING RUTLAND STATE AIRPORT CLARENDON, VERMONT AIR 23-2024

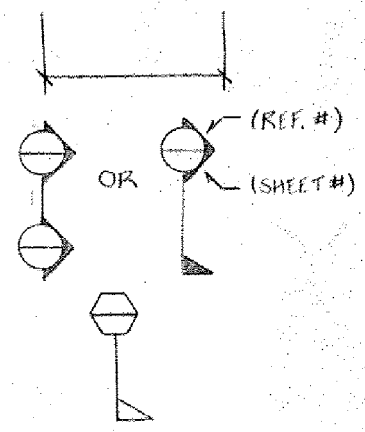
PROJECT TO INCLUDE THE SITE PREPARATION AND CONSTRUCTION OF AN AIRPORT
TERMINAL BUILDING WITH ITS PLUMBING, HEATING, AND ELECTRICAL APPURTENANCES.
PROJECT ALSO INCLUDES LAYOUT AND PAVING OF AN APRON EXTENSION AREA.



Dated FEB 12 1985
Simpson Construction, Inc.
Contractor
Signature Earle M. Simpson, Jr.
President
Title Transportation Secretary's Signature

SYMBOLS

DIMENSION TO FOF, FOS, OR FC

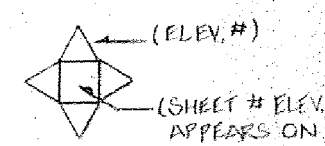


MAJOR SECTIONS THROUGH BLDG

LARGE SCALE DETAILS & SECTIONS
(IN DETAIL BOOK)

MATERIAL IN A RELATED PLANE

INTERIOR ELEVATIONS

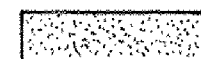


DIAMETER

EARTH



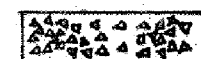
SAND OR GWB



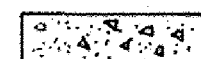
GRAVEL



CRUSHED STONE



CONCRETE



CEMENT MASONRY UNIT



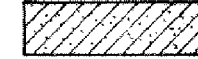
BRICK



SLATE



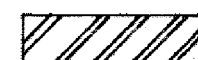
STONE



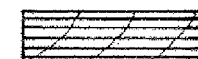
STEEL REINFORCING



STEEL CROSS SECTION



PLYWOOD



WOOD FRAMING CROSS SECTION - CONTINUOUS



WOOD FRAMING CROSS SECTION - DISCONTINUOUS



FINISH WOOD CROSS SECTION



FINISH WOOD FACE GRAIN



FIBERGLASS INSULATION



RIGID INSULATION



ABBREVIATIONS

AB ANCHOR BOLT	HORIZ HORIZONTAL
BLDG BUILDING	INSUL INSULATION
BTW BETWEEN	LB LAG BOLT
CB CARRIAGE BOLT	MAX MAXIMUM
CL CENTER LINE	MIN MINIMUM
CL CLOSET	MR MOISTURE RESISTANT
CMU CEMENT MASONRY UNIT (CONCRETE BLOCK)	NIC NOT IN CONTRACT
COLS COLUMNS	OC ON CENTER
CONT CONTINUOUS	PERP PERPENDICULAR
DBL DOUBLE	P PLATE
DF DRINKING FOUNTAIN	POLY POLYETHYLENE
DR DOOR	PR PAIR
DW DOWN	R RISER
EF EACH FACE	RO ROUGH OPENING
EL ELEVATION	ST STEEL
EW EACH WAY	STD STANDARD
EXT EXTERIOR	TCC TOP OF CURB
FCO FLOOR CLEAN OUT	T & G TONGUE AND GROOVE
FD FLOOR DRAIN	TYP TYPICAL
FDIN FOUNDATION	VERT VERTICAL
FEC FIRE EXTINGUISHER CABINET	VB VAPOR BARRIER
FOF FACE OF FOUNDATION	W WITH
FOS FACE OF STUD	WD WOOD
GWB GYPSUM WALL BOARD	FF FINISH FLOOR
HDCP HANDICAPPED	

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	ARCHITECTURAL
3 " "	A-1 FOUNDATION PLAN
4 " "	A-2 FIRST FLOOR PLAN
5 " "	A-2REF FIRST FLOOR REFERENCE PLAN
6 " "	A-3 MEZZANINE PLAN
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13 " "	SF-3 FRAMING X-SECTIONS
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16 " "	H-1 HEATING PLAN & DETAILS
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	STANDARD SITE DETAILS
18 " "	STANDARD D6 (APRIL 4, 1973r)
19 " "	STANDARD D11 (AUGUST 24, 1981r)

*FOR LARGE SCALE DETAILS SEE "DETAIL BOOK"

AIP 3-50-0015-02

AGENCY OF ADMINISTRATION
DEPARTMENT OF STATE BUILDINGS

APPROVED _____ DATE _____
COMMISSIONER

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED _____ DATE _____
DIRECTOR OF ENGINEERING AND CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

APPROVED _____ DATE _____
CHIEF ENGINEERING BRANCH - AIRPORTS DIVISION

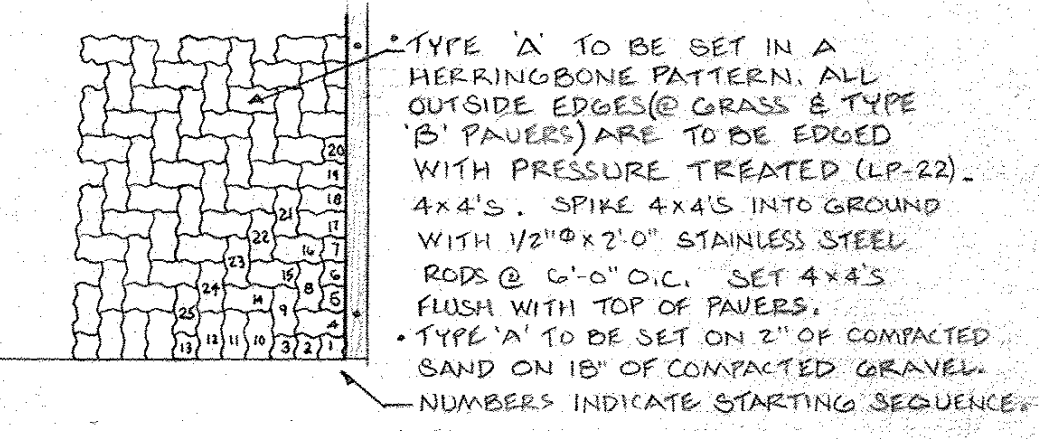
PROJECT AIR No 23-2024

SHEET 1 OF 19 SHEETS

FOR GRADES & LAYOUT OF ROADS NORTH OF SITE WORK CONTRACT LIMIT LINE REFER TO DRAWINGS FOR RUTLAND STATE AIRPORT, DATED 8-15-83, PREPARED BY PINKHAM ENGINEERING ASSOC., INC., DRAWING 3 OF 44 FOR GRADES, AND DRAWING 15 OF 44 FOR ROAD LAYOUT.

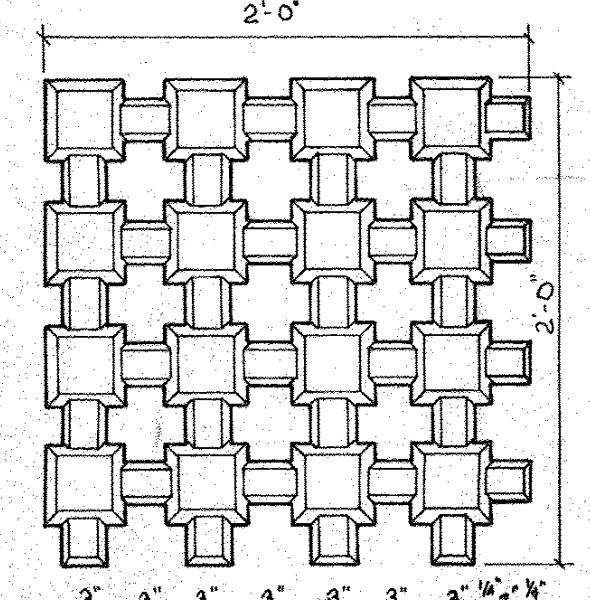
GRANITE CURBING TO MATCH EXISTING

TYPE 'A' PAVER PLAN



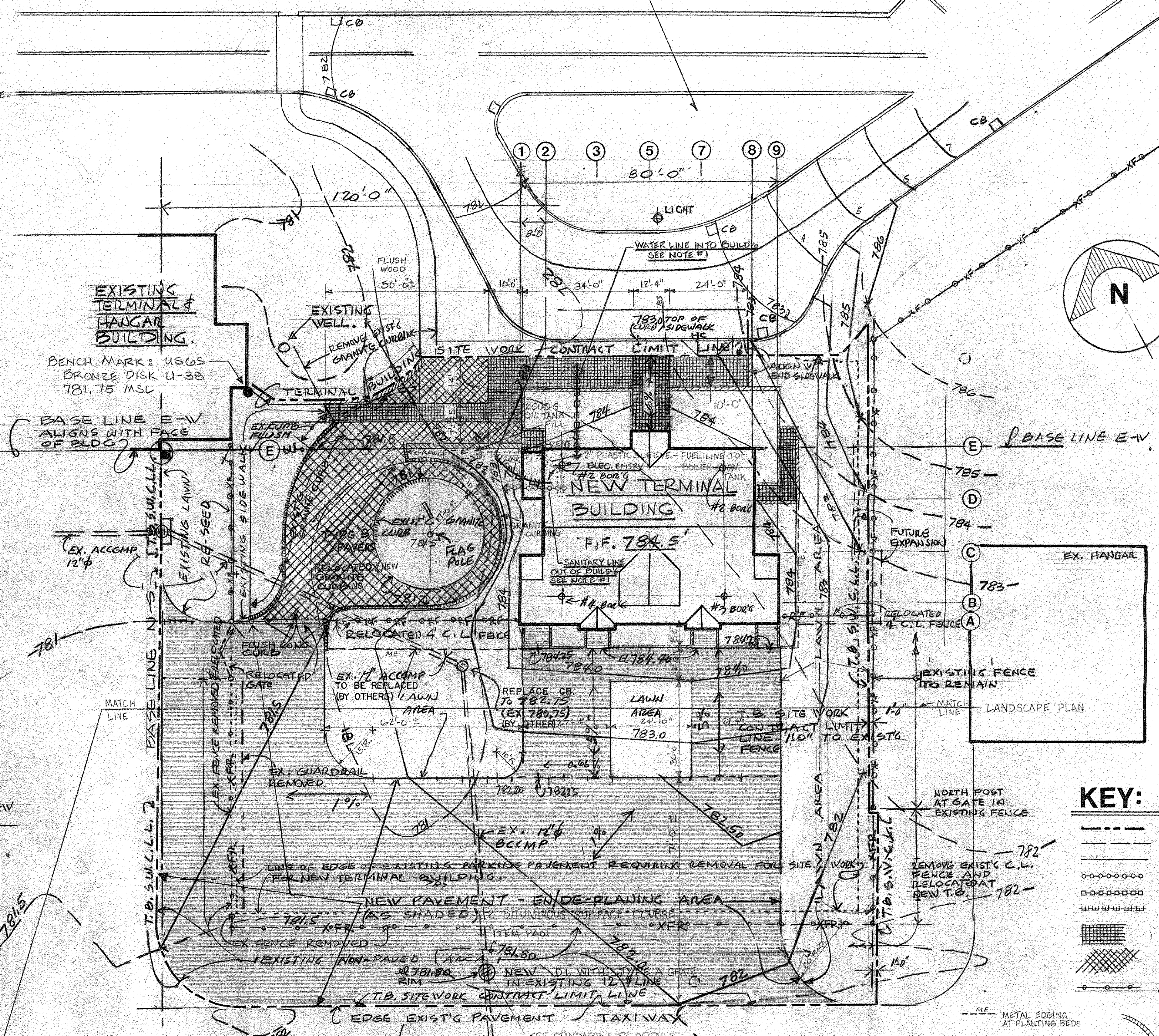
TYPE 'A' CONC. PAVER
SCALE: FULL SIZE

TYPE 'B' PAVER UNIT PLAN



TYPE 'B' PAVER SECTION

TYPE 'B' TO BE SET ON 2" OF COMPACTED SAND ON 18" OF COMPACTED GRAVEL. FILL VOIDS IN PAVERS FLUSH WITH A MIXTURE OF TOPSOIL, LIME, FERTILIZER (10-20-20) AND PEAT MOSS. WATER WITH A MIST SPRAY TO SETTLE. ADD ADDITIONAL TOPSOIL MIX TO BRING THE TOPSOIL FLUSH WITH TOP OF THE PAVER. SEED AT SLIGHTLY LESS THAN NORMAL RATE, AND MULCH. WHEN GRASS IS 2-1/2" HIGH, CUT TO 1-1/4".



LANDSCAPE PLAN - Sc 1" = 20'0"

PLANTING LIST

NO.	PLANT	QUANTITY	INSTALLATION	REMARKS
1	P. PERIWINKLE	1650 PLANTS @ 9"Ø IN 5 BEDS	- VINCA MINOR	SIZE & REMARKS: C-CONTAINER B&B-BALL & BURLAP BARE ROOT
2	CJ - CREEPING JUNIPER	65 PLANTS @ 3"Ø - 2 BEDS	- JUNIPER HORIZONTALIS	6'-9" HT; 18"-24" SPREAD; 5 GAL. C
3	PJ - PROSTRATE COMMON JUNIPER	124 PLANTS - 3"Ø - 4 BEDS	- JUNIPER C. DEPRESSA	12'-15" HT; 24"-30" SPD; 5 GAL. C
4	LB - LOW BUSH BLUEBERRY	120 PLANTS - 2'Ø IN 2 BEDS	- V. AUGUSTIFLORAE VIFLOR	6'-9" HT; 6" FIBER POT
5	CR - CAROLINA ROSE	56 PLANTS IN TWO BEDS	- ROSA CAROLINA	18"-24" HT; 2 GAL. C
6	VR - VIRGINIA ROSE	22 PLANTS IN 2 BEDS	- ROSA VIRGINIANA	24"-30" HT; 3 GAL. C
7	SB - SNOWBERRY	23 PLANTS @ 4'Ø - 11 ONE BED	- SYMPHORICARPUS ALBUS LAEV	3'-4" HT; 3 GAL. C/OR B&B

SITE LOCATION PLAN Sc 1" = 20'0"

BUILDING LOCATION, GRADES, SURFACE IMPROVEMENTS & DRAINAGE

NOTE #1: SEE SITE UTILITIES PLAN (SU-1) FOR CONTINUATION OF BUILDING WATER SERVICE LINE & SANITARY LINE

NOTE #2: DATA REGARDING EXISTING PARKING AREA, GRADES, & FENCES DEVELOPED FROM:

- AS BUILT RUTLAND STATE AIRPORT PARKING LOT EXTENSION DRAWINGS DATED: 7-23-73, G.W. DIAMICO, RESIDENT ENGINEER.
- DRAWINGS PREPARED BY DUERESNE HENRY, RUTLAND STATE AIRPORT, CONTRACT 1 OF 2, PLAN & PROFILE SHEET 4 OF 13, AND GRADING, DRAINAGE DETAILS AND PROFILES SHEET 5 OF 13, DATED 9-12-77 & 9-8-77.

STATE OF VERMONT
DIVISION OF STATE BUILDINGS
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

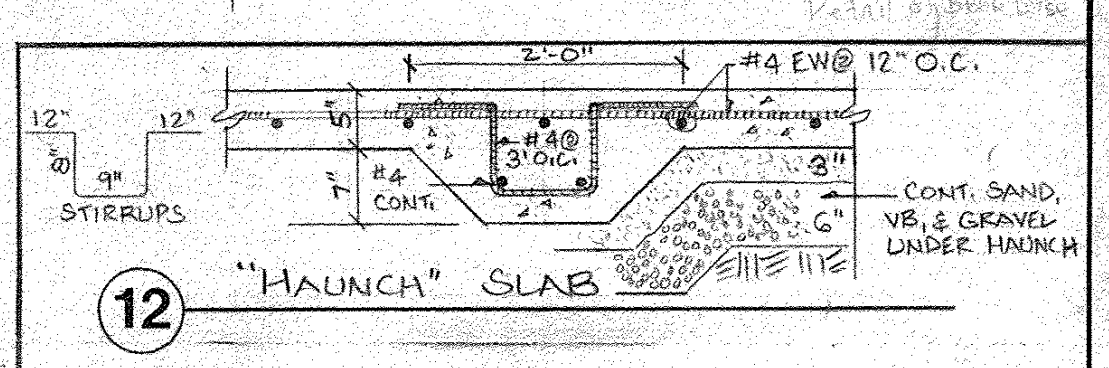
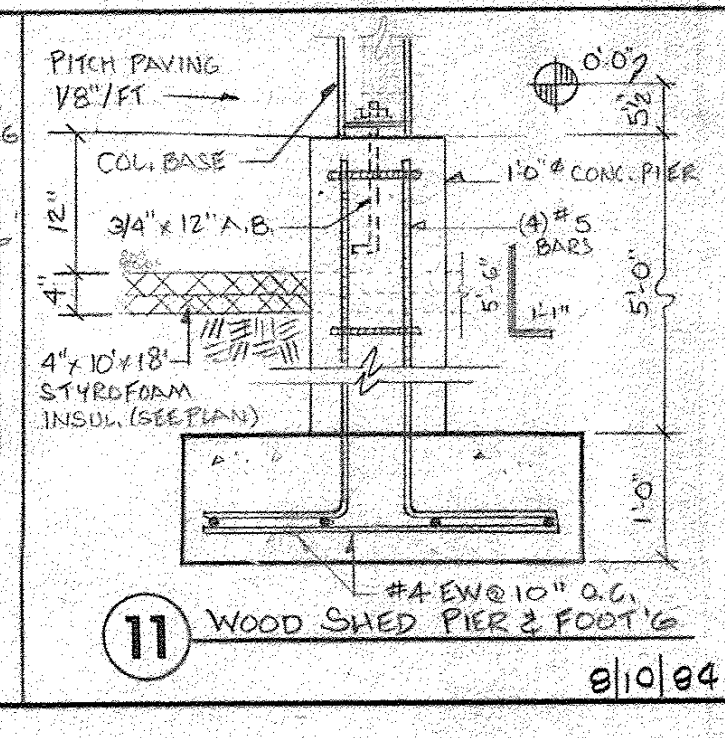
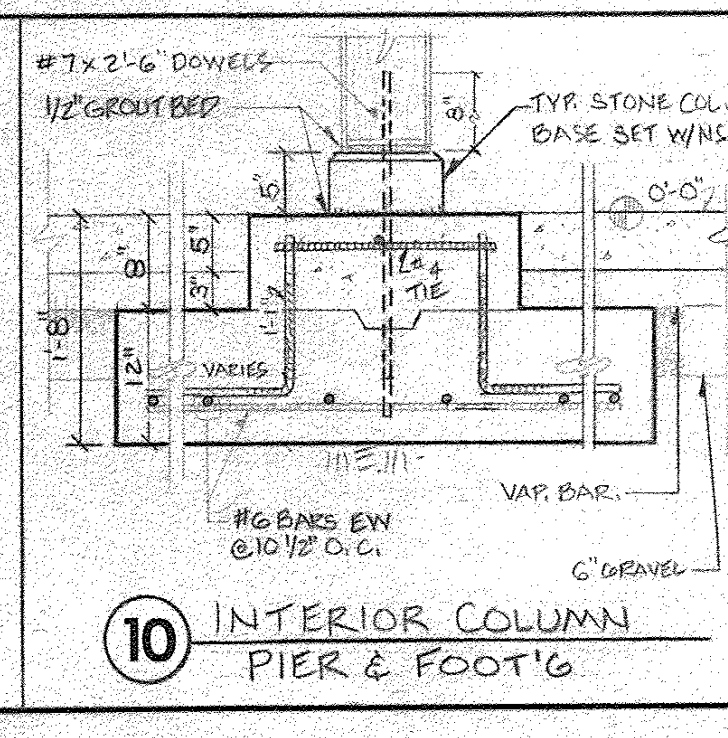
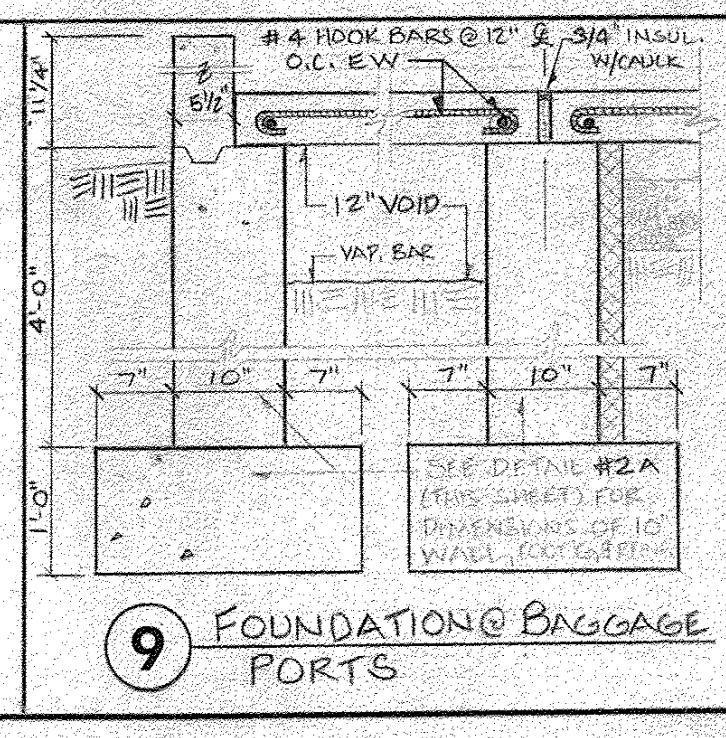
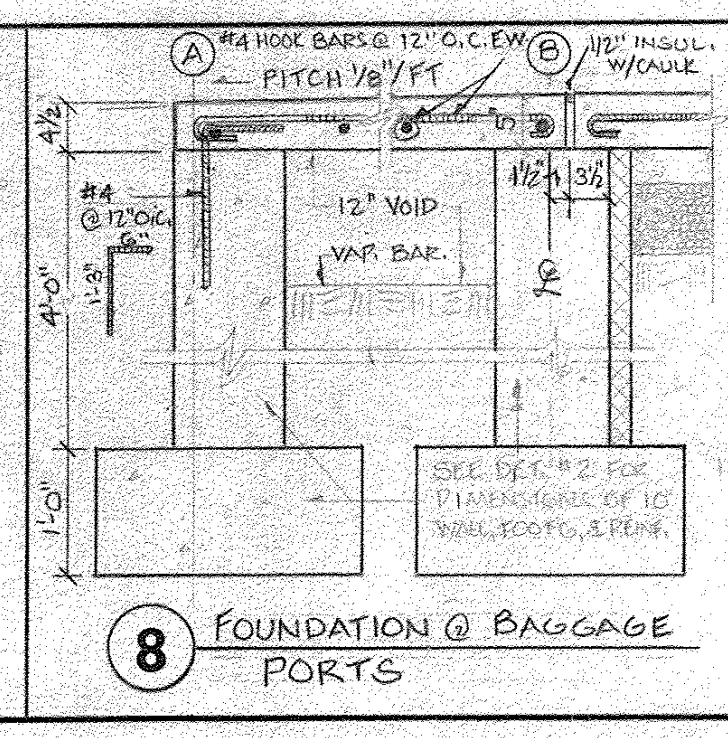
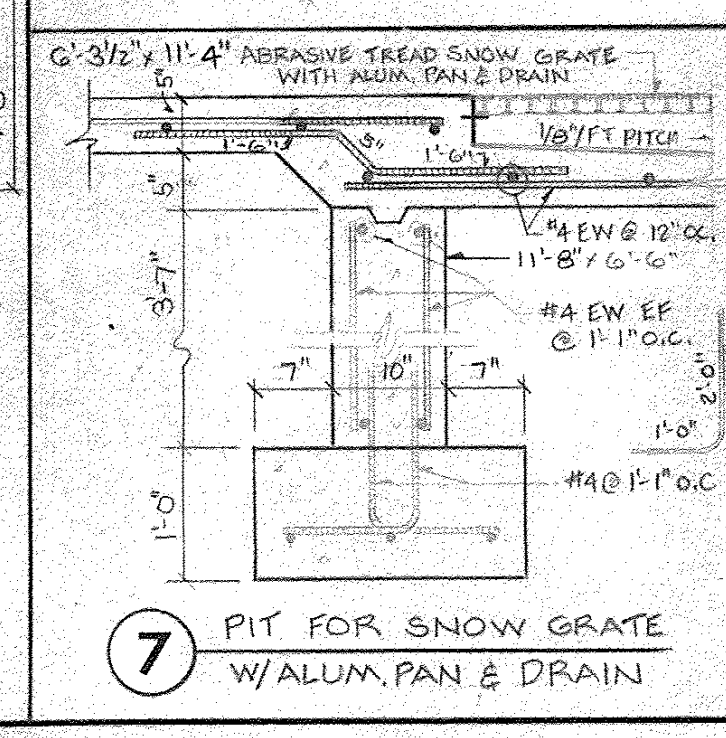
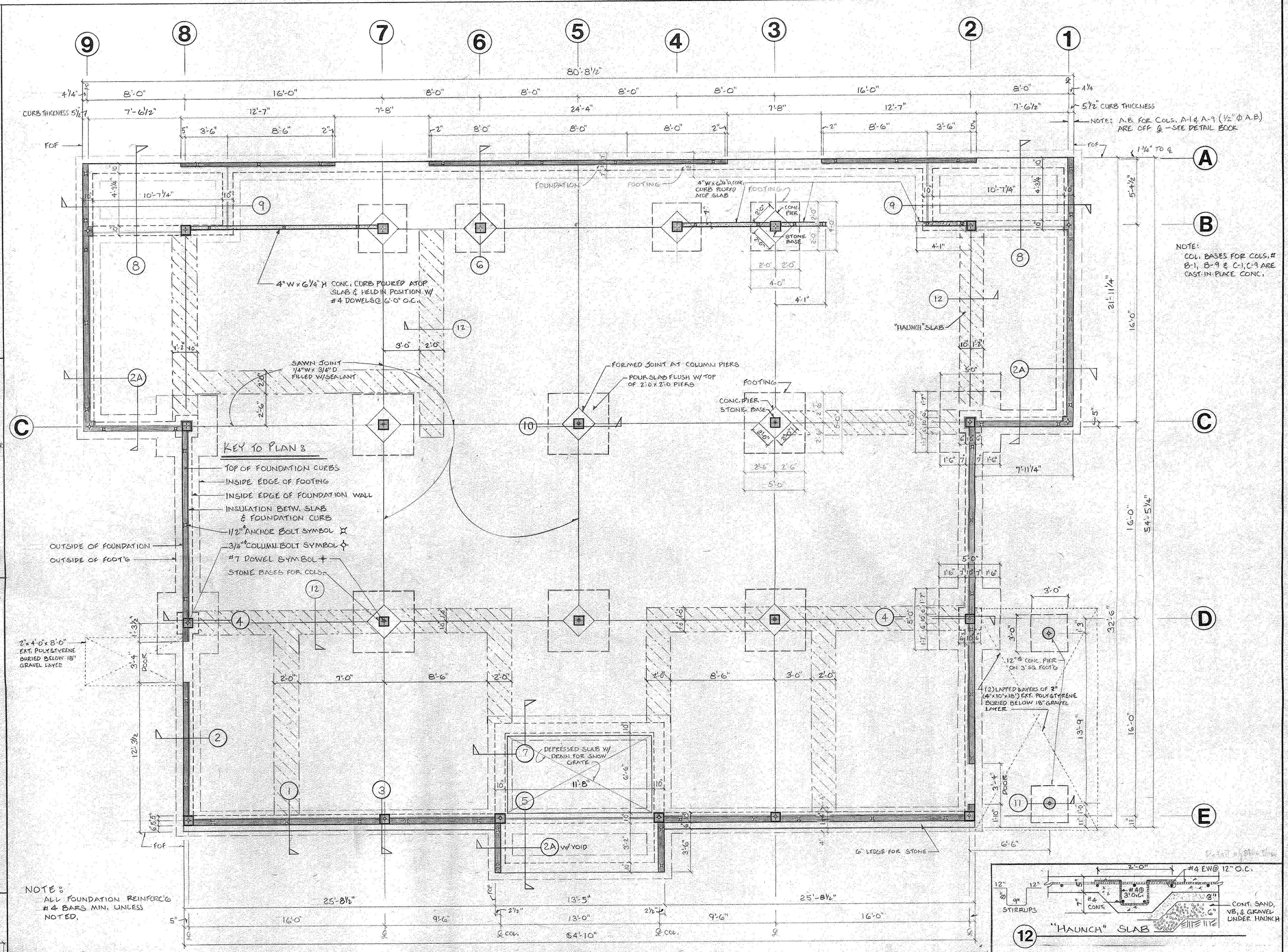
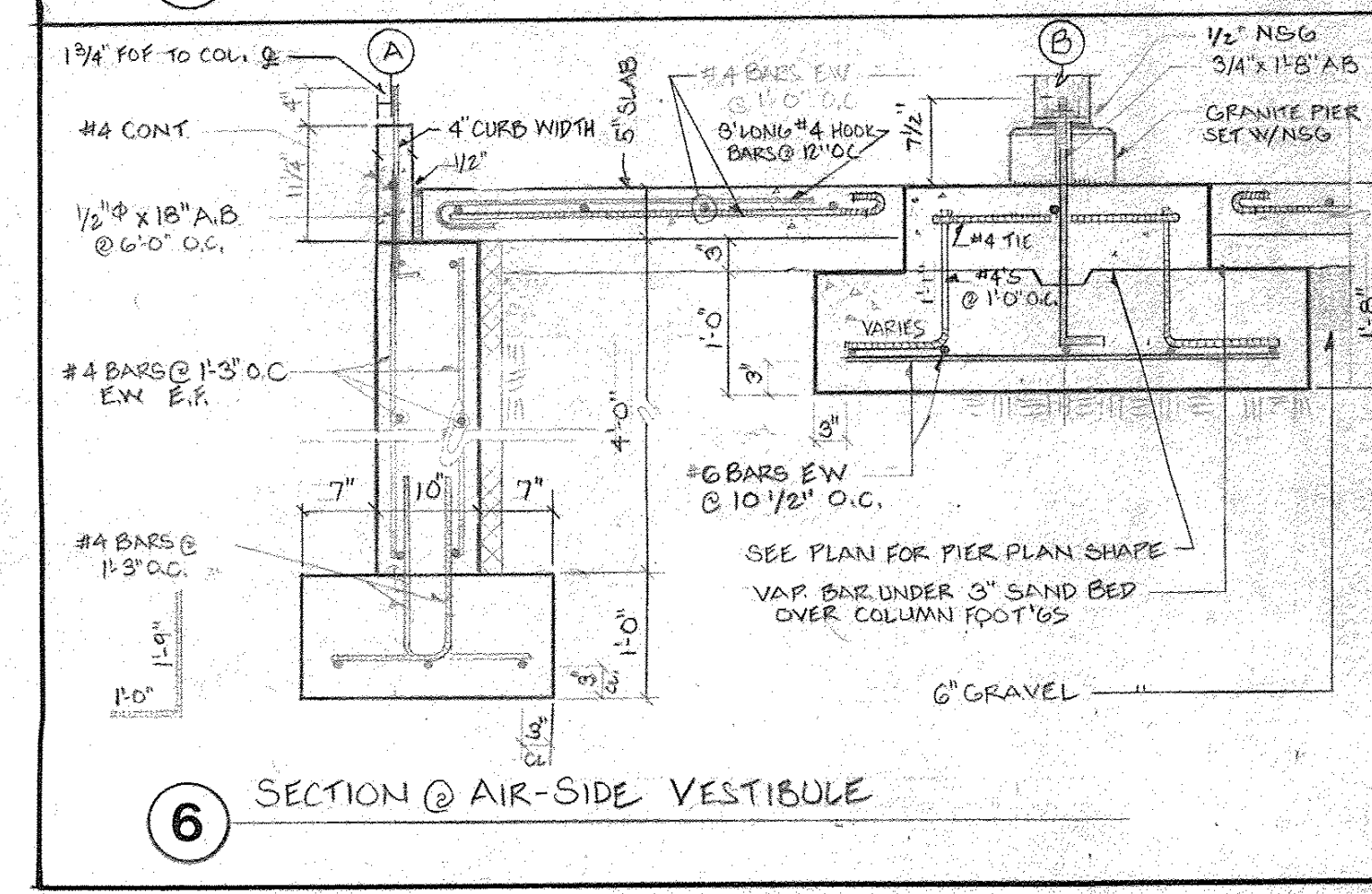
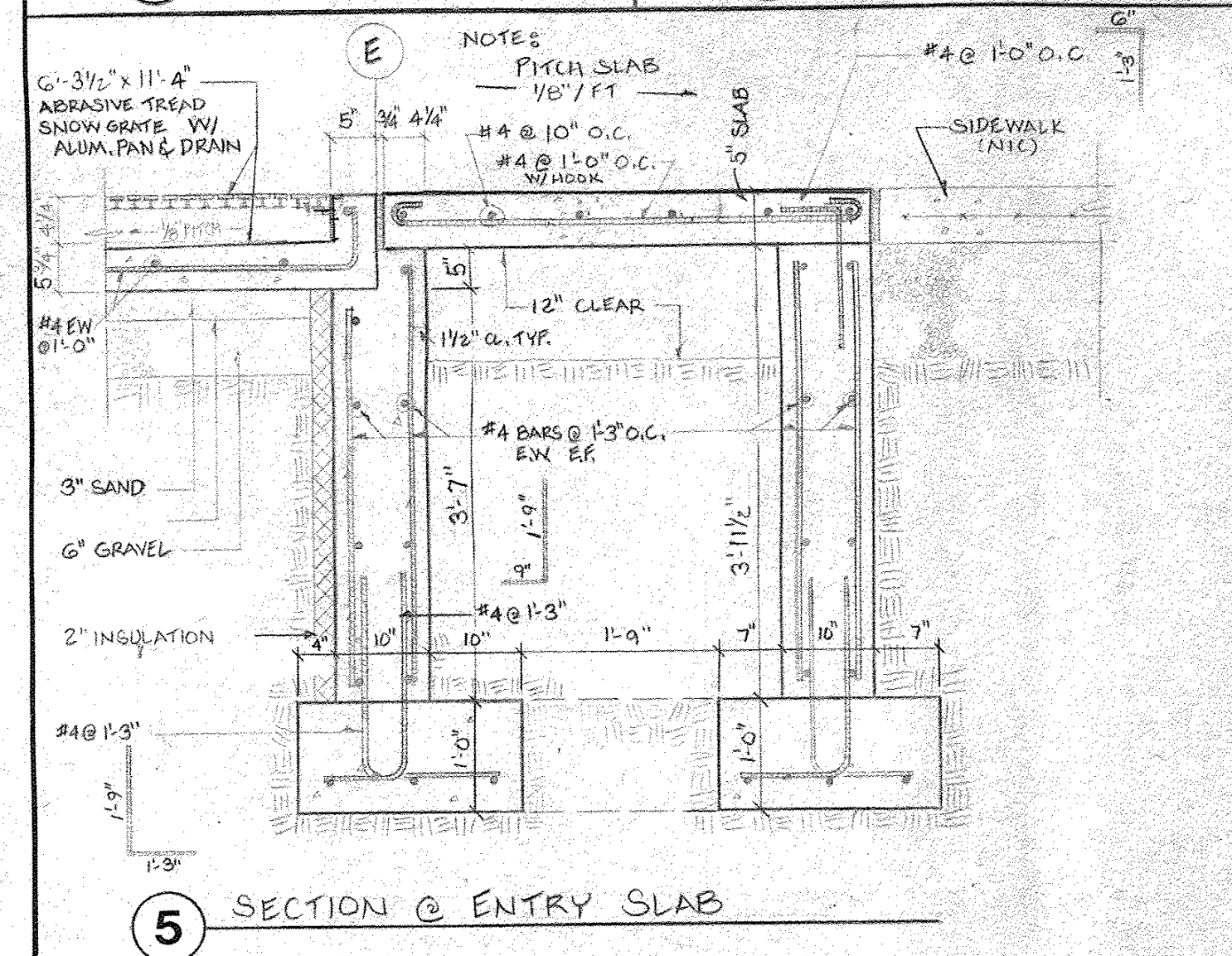
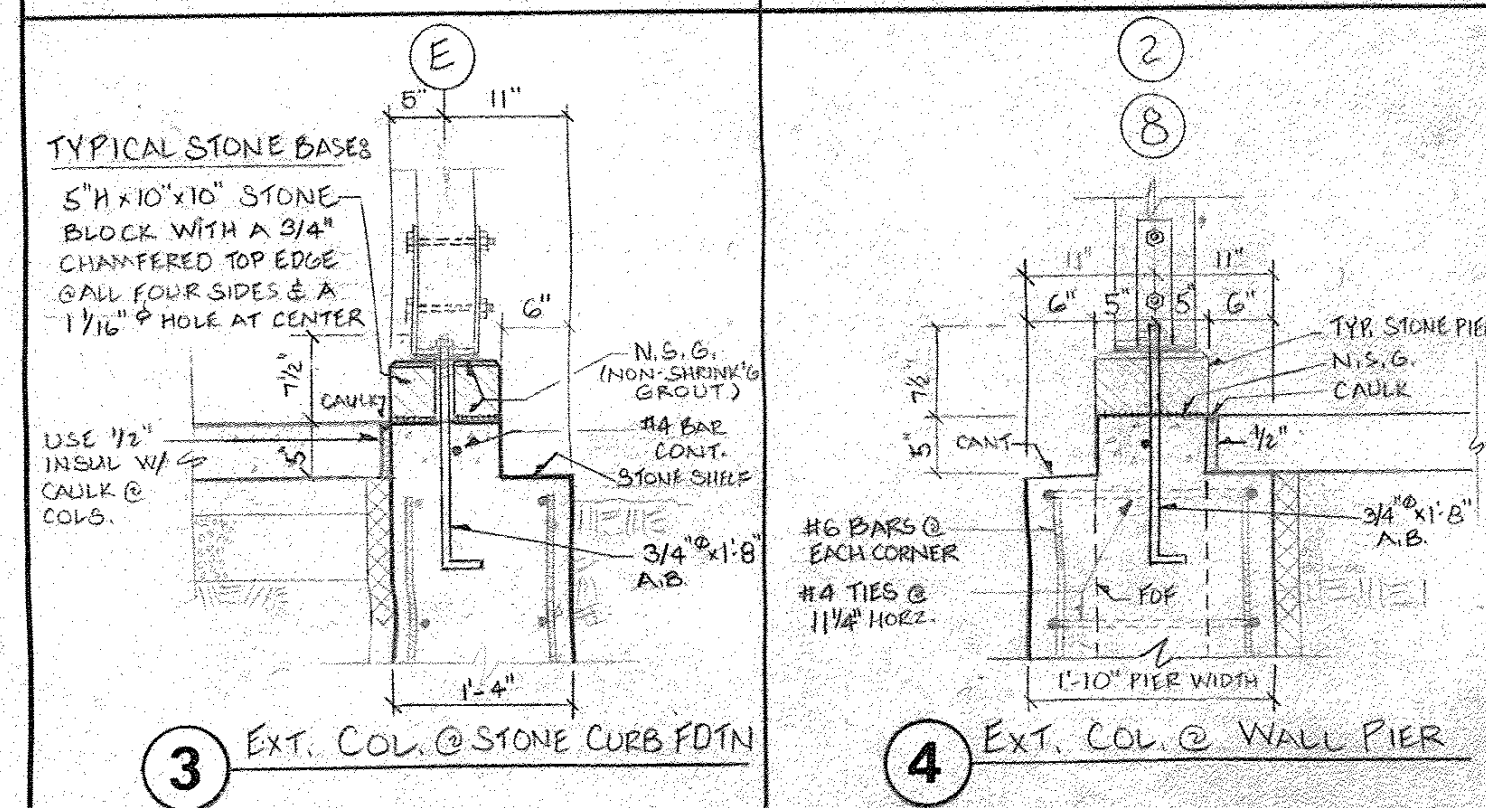
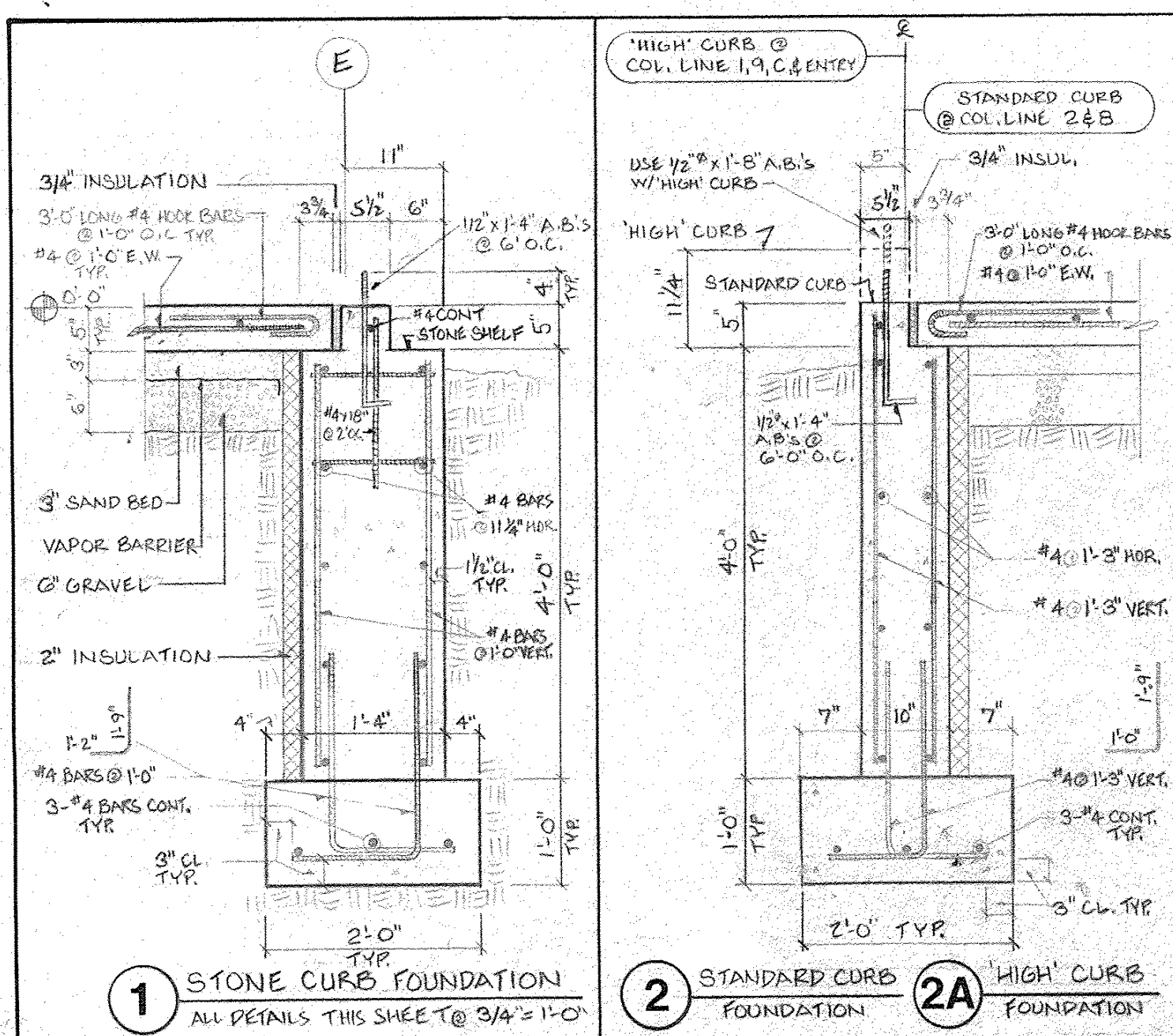
RUTLAND TERMINAL BUILDING AIR 23-2024

SITE PLAN & LANDSCAPING

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

DATE: 6-8-84
SCALE: 1" = 20'-0"
DRAWN BY: RA
APPROVED BY: CA FOR DGB

REVISIONS: 6/29/84 S.A. MULHERN
DWG. NO. S-1
2 OF 19



STATE OF VERMONT
DIVISION OF STATE BUILDINGS
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

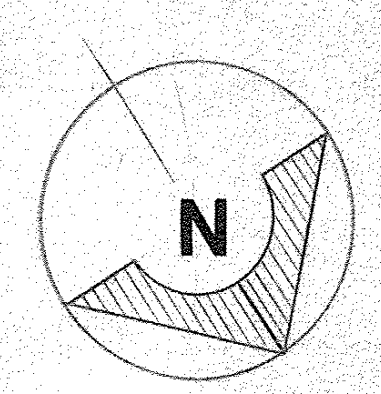
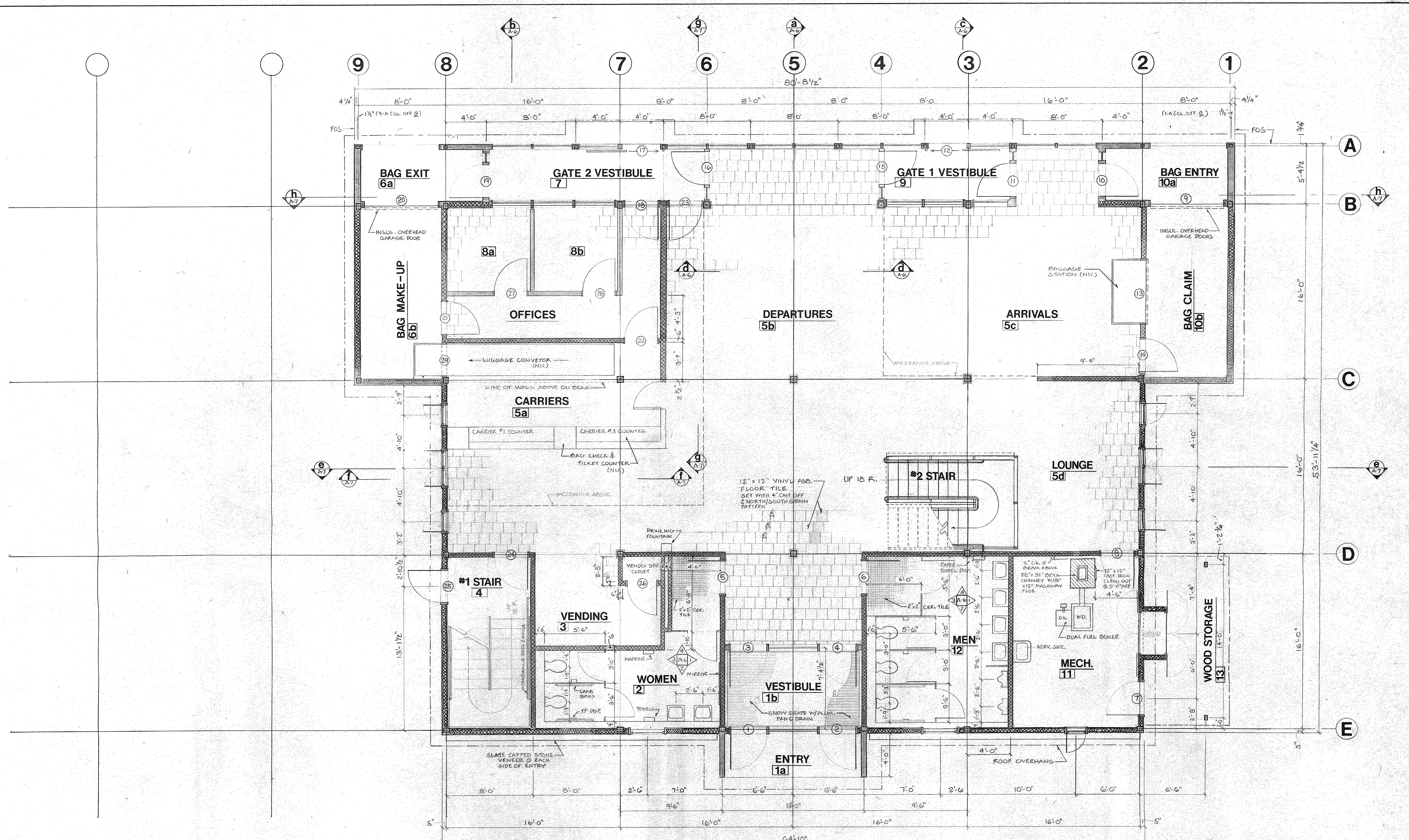
RUTLAND TERMINAL BUILDING AIR 23-2024
FOUNDATION PLAN
RUTLAND STATE AIRPORT
CLARENDON, VERMONT

DATE: 6-8-84
SCALE: PLAN @ 1/4" = 1'-0"
DETAILS @ 3/4" = 1'-0"
DRAWN BY: JPD
APPROVED BY: RA FOR DSEP

REVISIONS:
7/2/84 SA. MULHORN

DWG. NO. **A-1**
3 of 19

1/24
/BA G. White

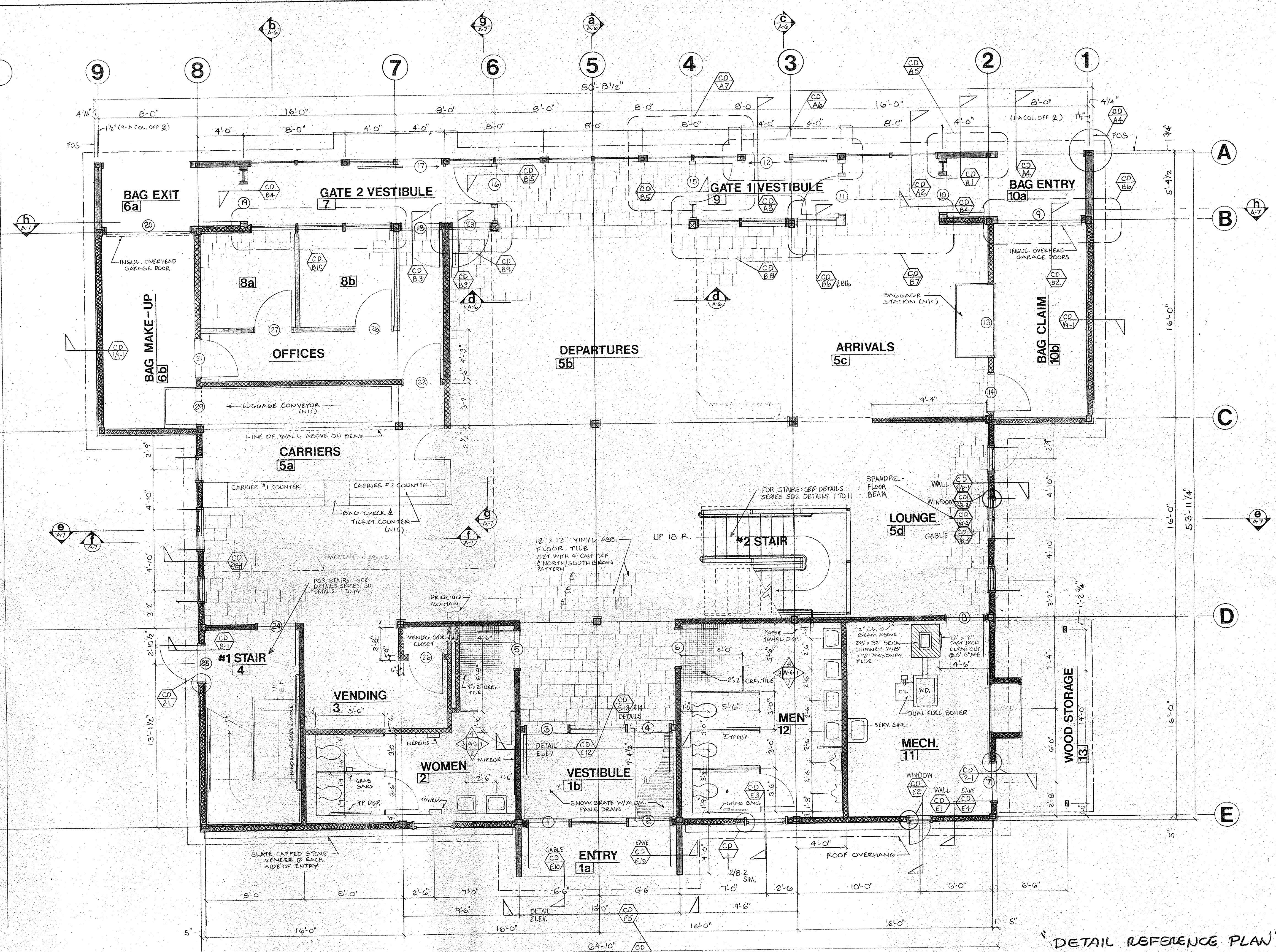


STATE OF VERMONT
DIVISION OF STATE BUILDINGS
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

RUTLAND TERMINAL BUILDING AIR 23-2024
FIRST FLOOR PLAN
RUTLAND STATE AIRPORT
CLARENDON, VERMONT

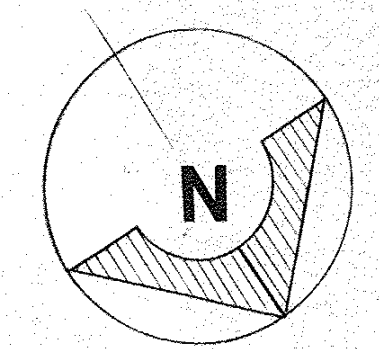
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DRAWN BY: JPO	APPROVED BY: [Signature]	4 OF 19	

6/10/24



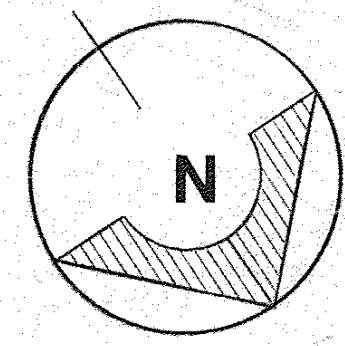
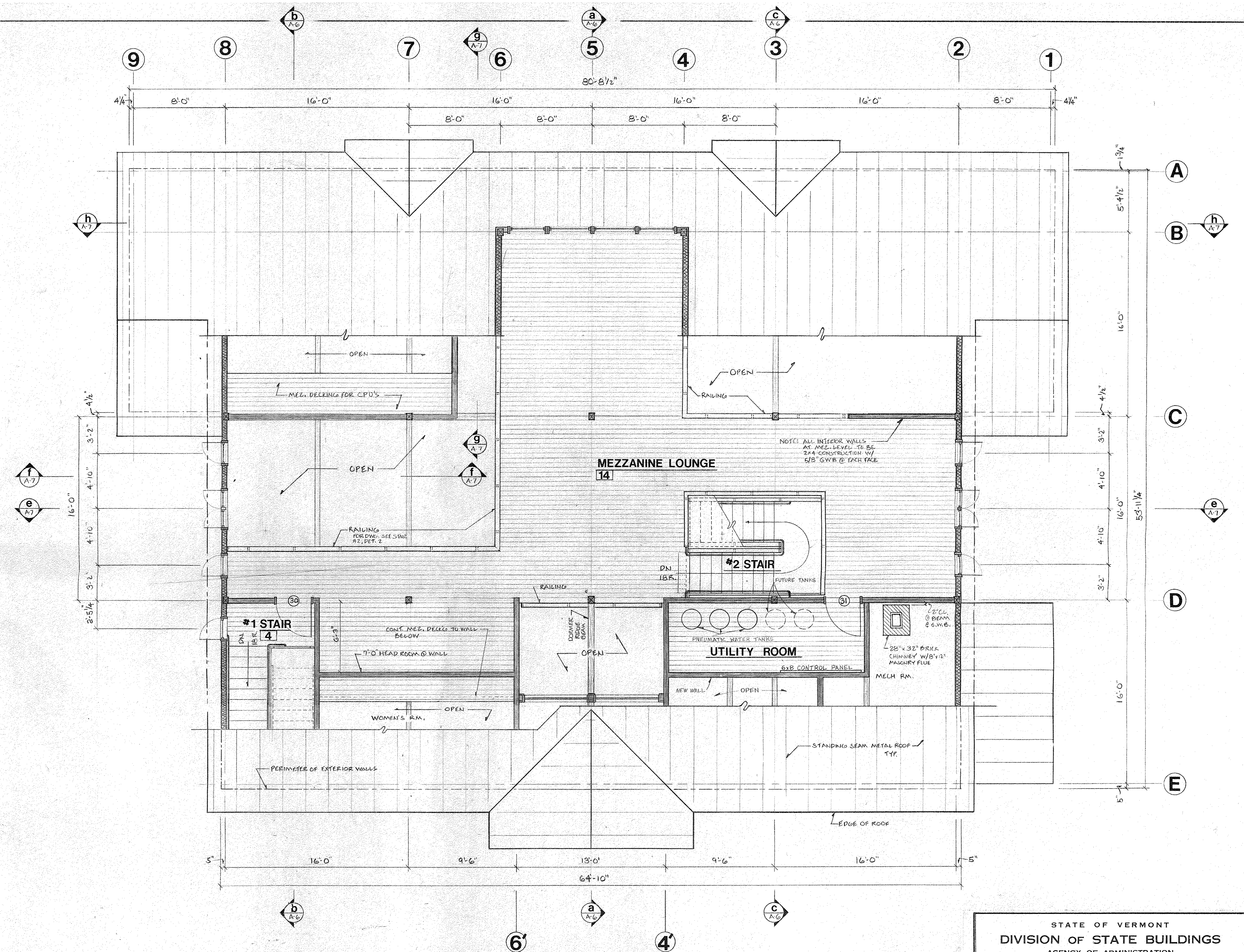
DETAIL REFERENCE PLAN

STATE OF VERMONT			
DIVISION OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024			
FIRST FLOOR PLAN			
RUTLAND STATE AIRPORT			
CLARENDON, VERMONT			
DATE:	SCALE:	REVISIONS:	DWG. NO.
6/8/84	1/2" = 1'-0"		A-2Ref.
DRAWN BY:	APPROVED BY:		5 OF 19
	1/2" FOR DSD		



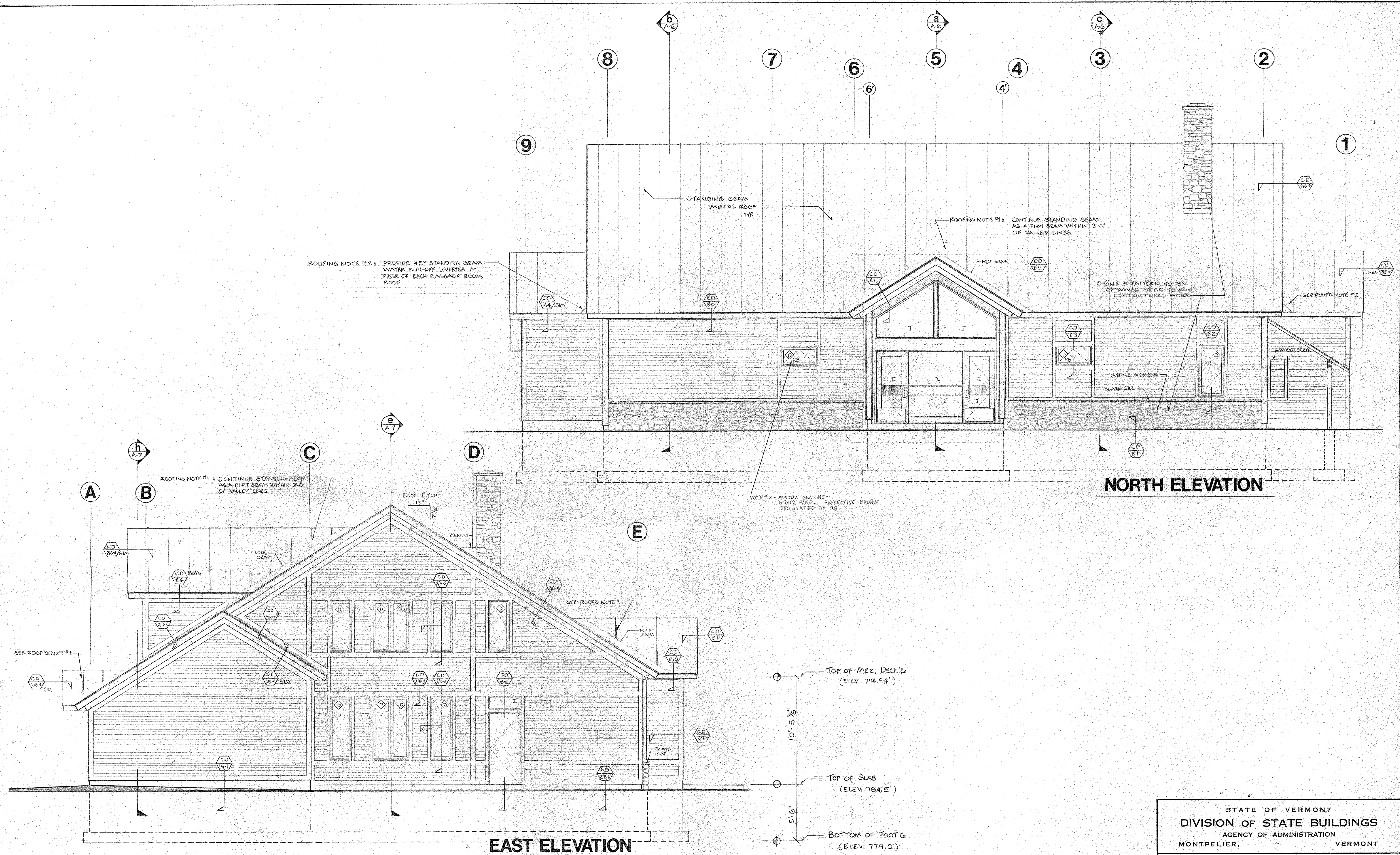
8/10/84

ated
1/24 for Wake



STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024 MEZZANINE PLAN RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 01/21/84 SAMUELHERN	DWG. NO. A-3
DRAWN BY: JPO	APPROVED BY: RA FOR DGB		6 OF 19

8/10/84



ROOFING NOTE #2: PROVIDE 45° STANDING SEAM WATER RUN-OFF DIVERTER AT BASE OF EACH BAGGAGE ROOM ROOF

ROOFING NOTE #1: CONTINUE STANDING SEAM AS A FLAT SEAM WITHIN 3'-0" OF VALLEY LINES.

ROOFING NOTE #1 & CONTINUE STANDING SEAM AS A FLAT SEAM WITHIN 3'-0" OF VALLEY LINES

NOTE #3 - WINDOW GLAZING - REFLECTIVE - BRONZE DESIGNATED BY RB

NORTH ELEVATION

EAST ELEVATION

TOP OF MEZ. DECK'G
(ELEV. 794.94')

10'-5 3/8"

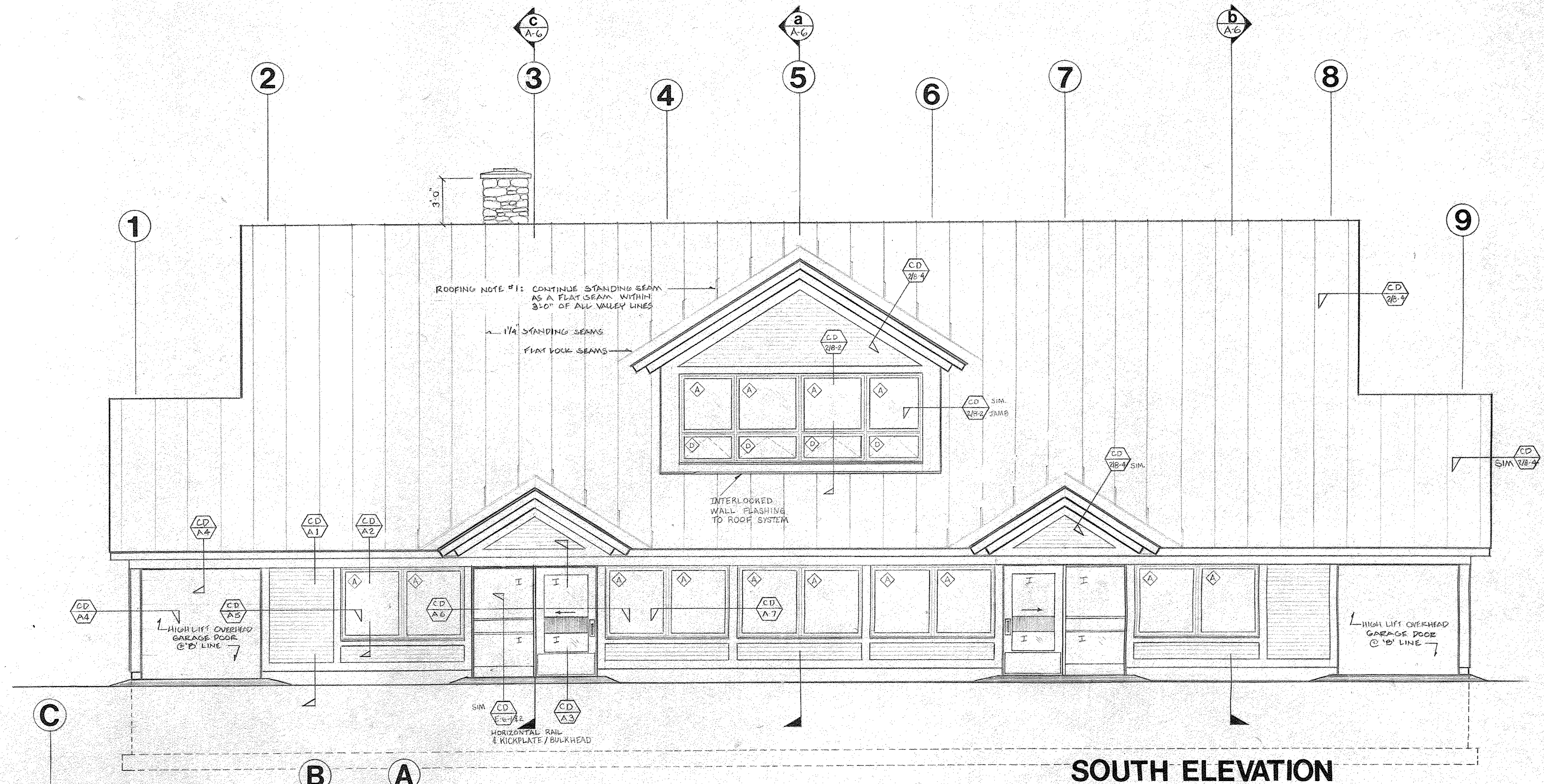
TOP OF SLAB
(ELEV. 784.5')

5'-6"

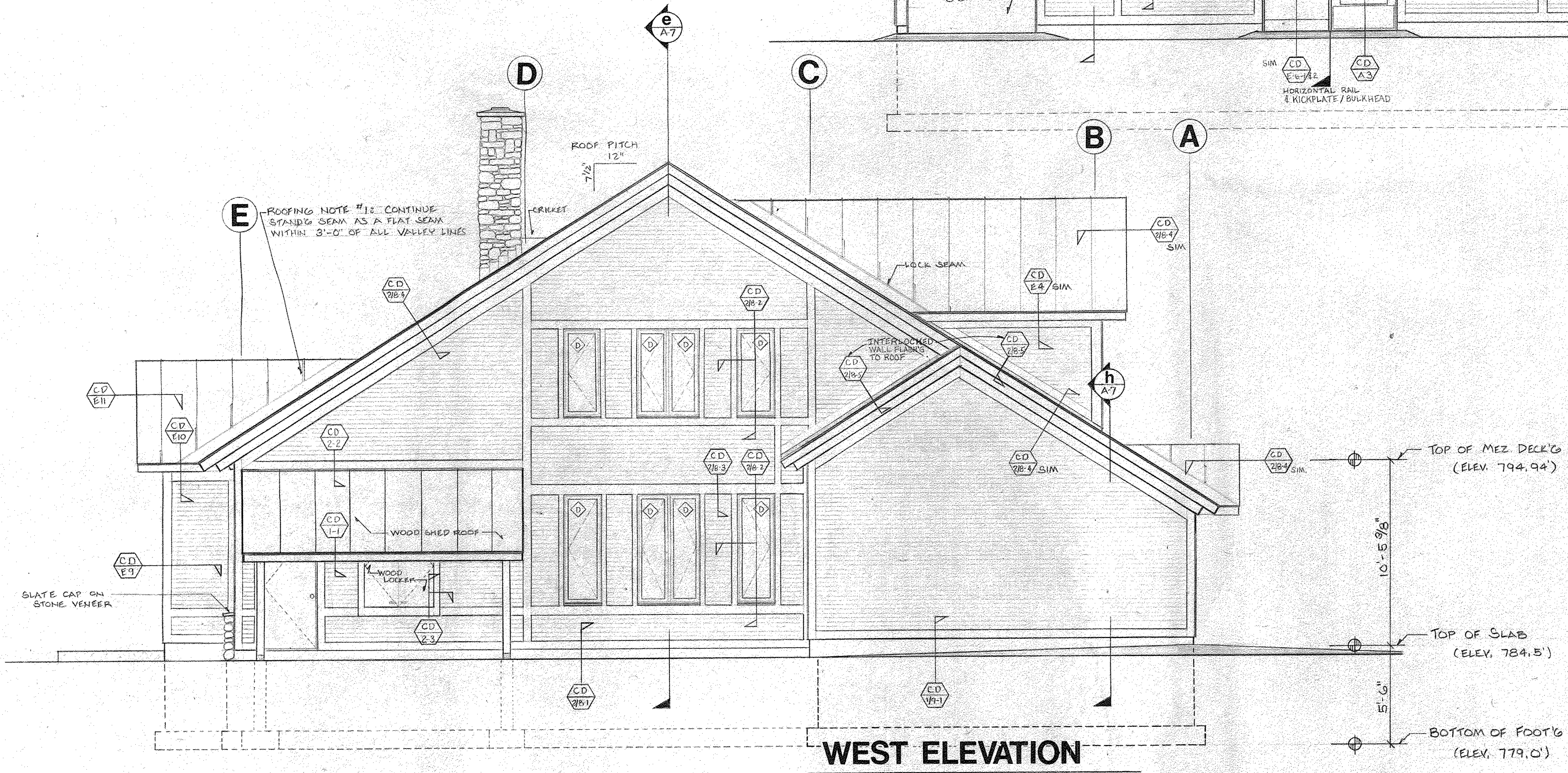
BOTTOM OF FOOT'G
(ELEV. 779.0')

STATE OF VERMONT			
DIVISION OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER.		VERMONT	
RUTLAND TERMINAL BUILDING AIR 23-2024			
ELEVATIONS			
RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 6/21/84 S.A. MULHERN	DWG. NO. A-4
DRAWN BY: SFD	APPROVED BY: [Signature]	7 of 19	

ej/10/84



SOUTH ELEVATION



WEST ELEVATION

NOTE
SEE DWG. A7 FOR WINDOW UNITS
AT INTERIOR WALL OF 'AIR SIDE' CORRIDOR-SECTION (H)

TOP OF MEZ DECK'S
(ELEV. 794.94')

10'-5 9/8"

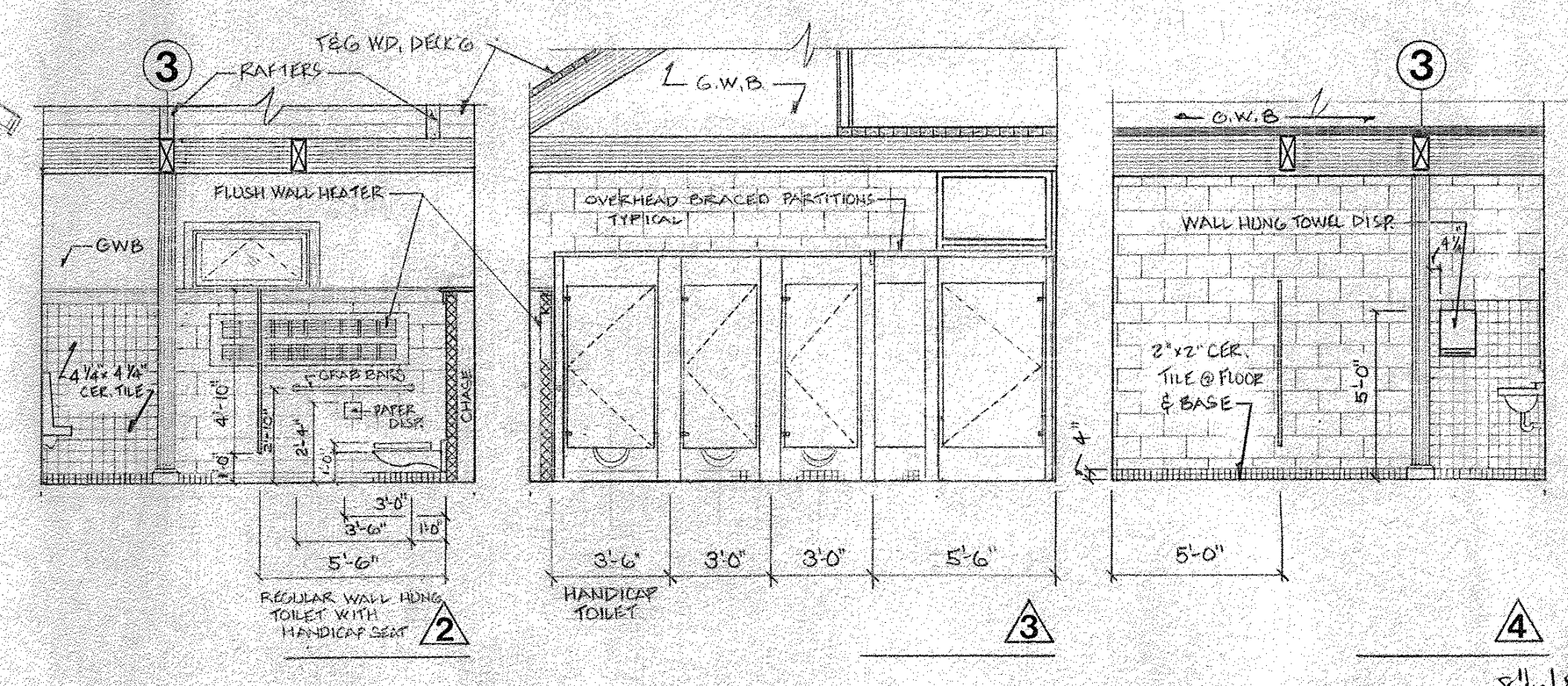
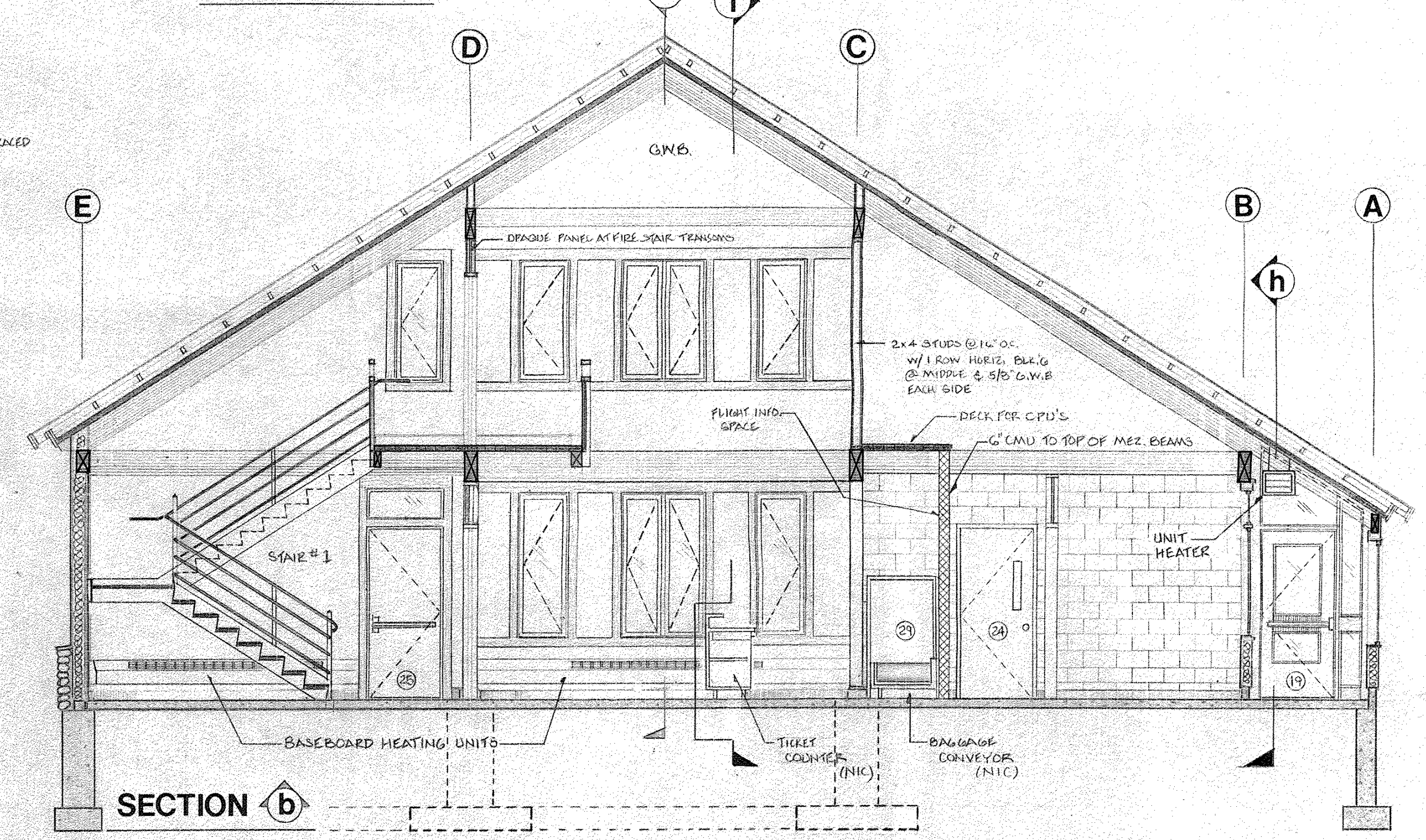
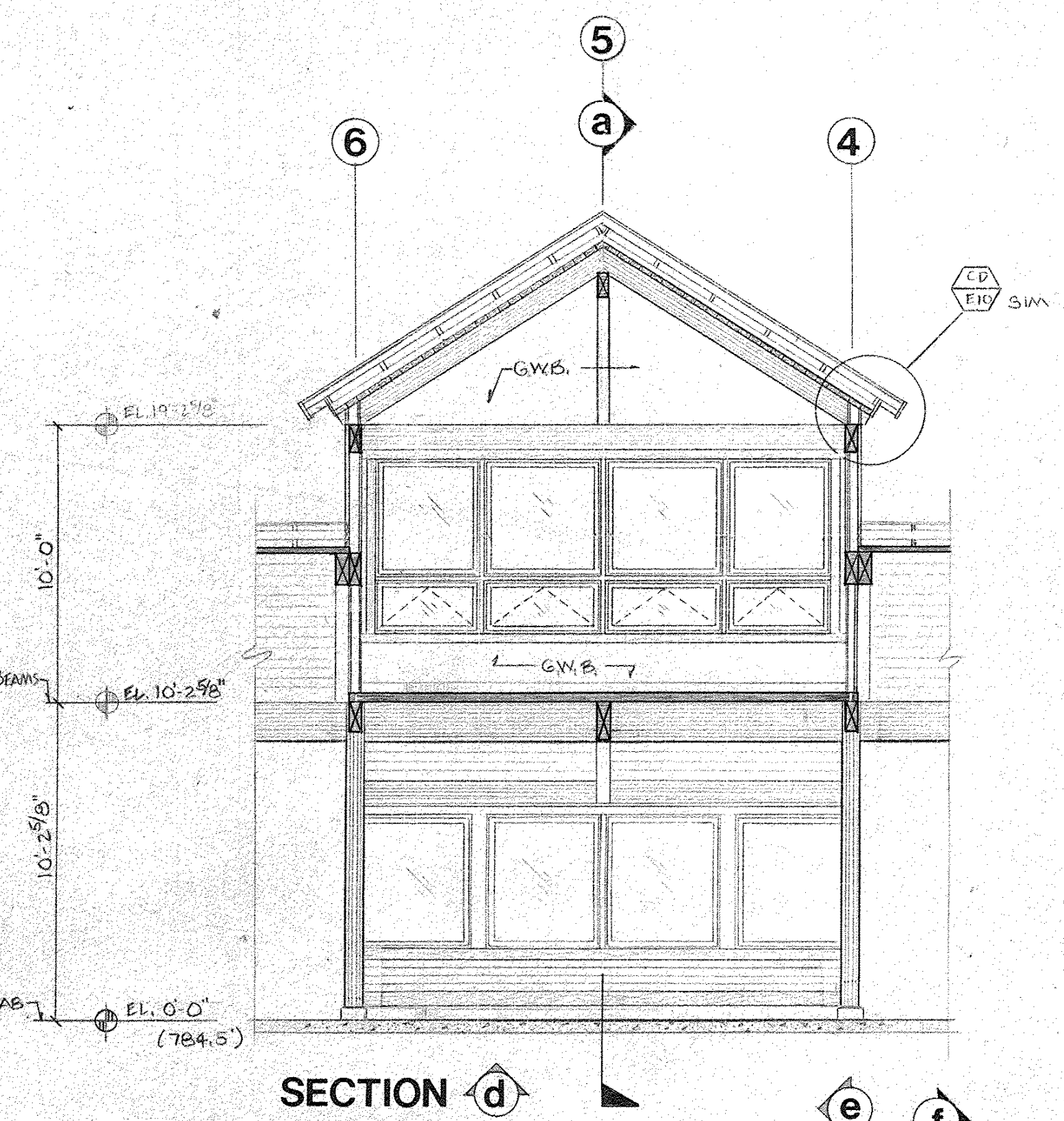
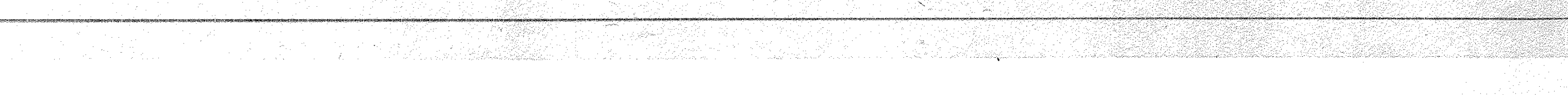
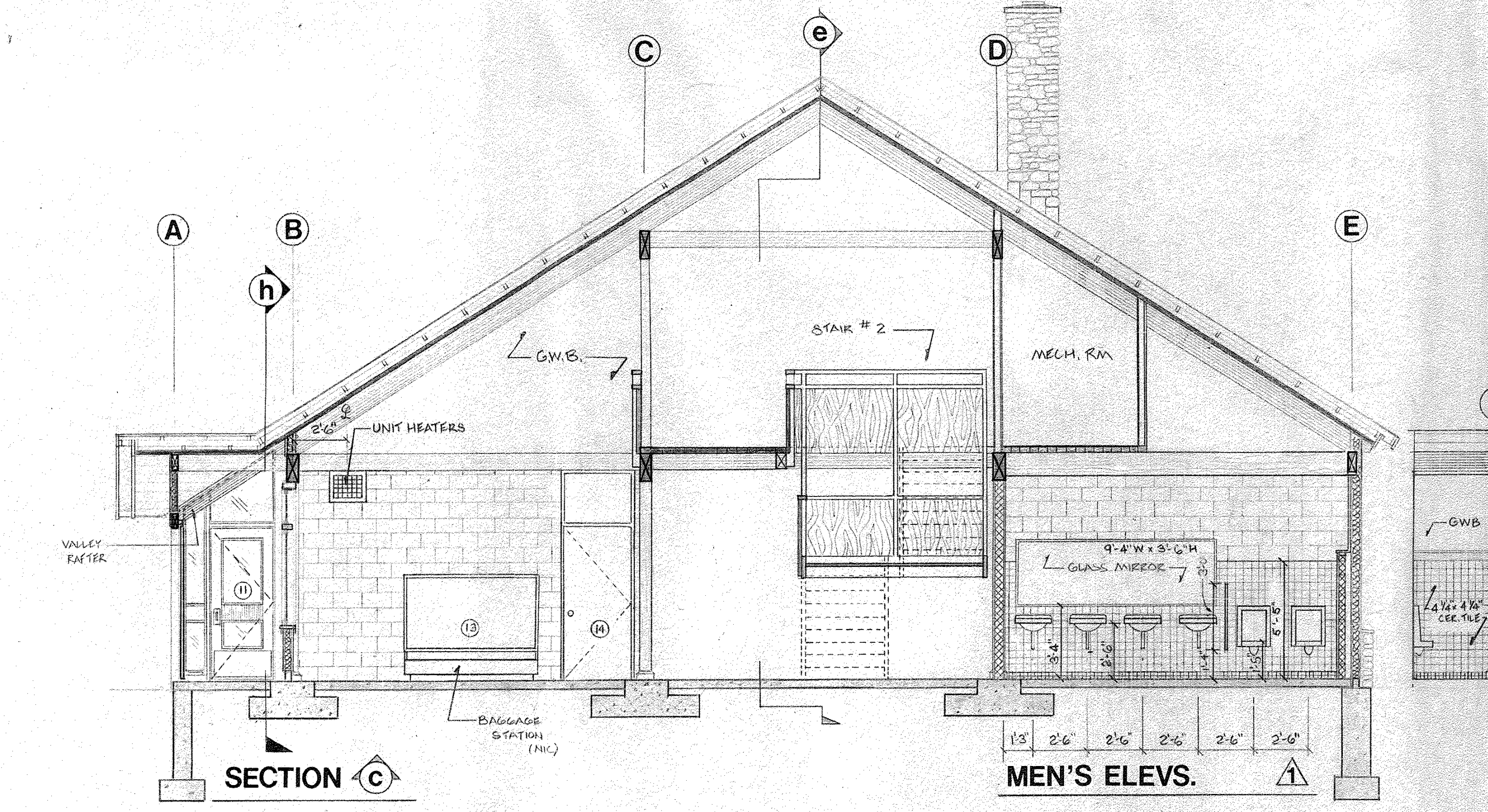
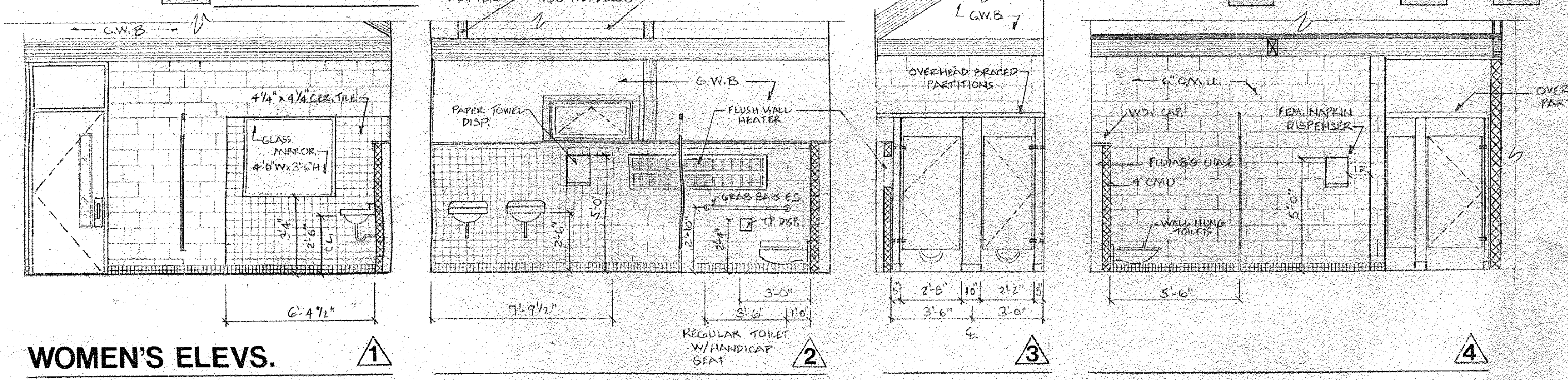
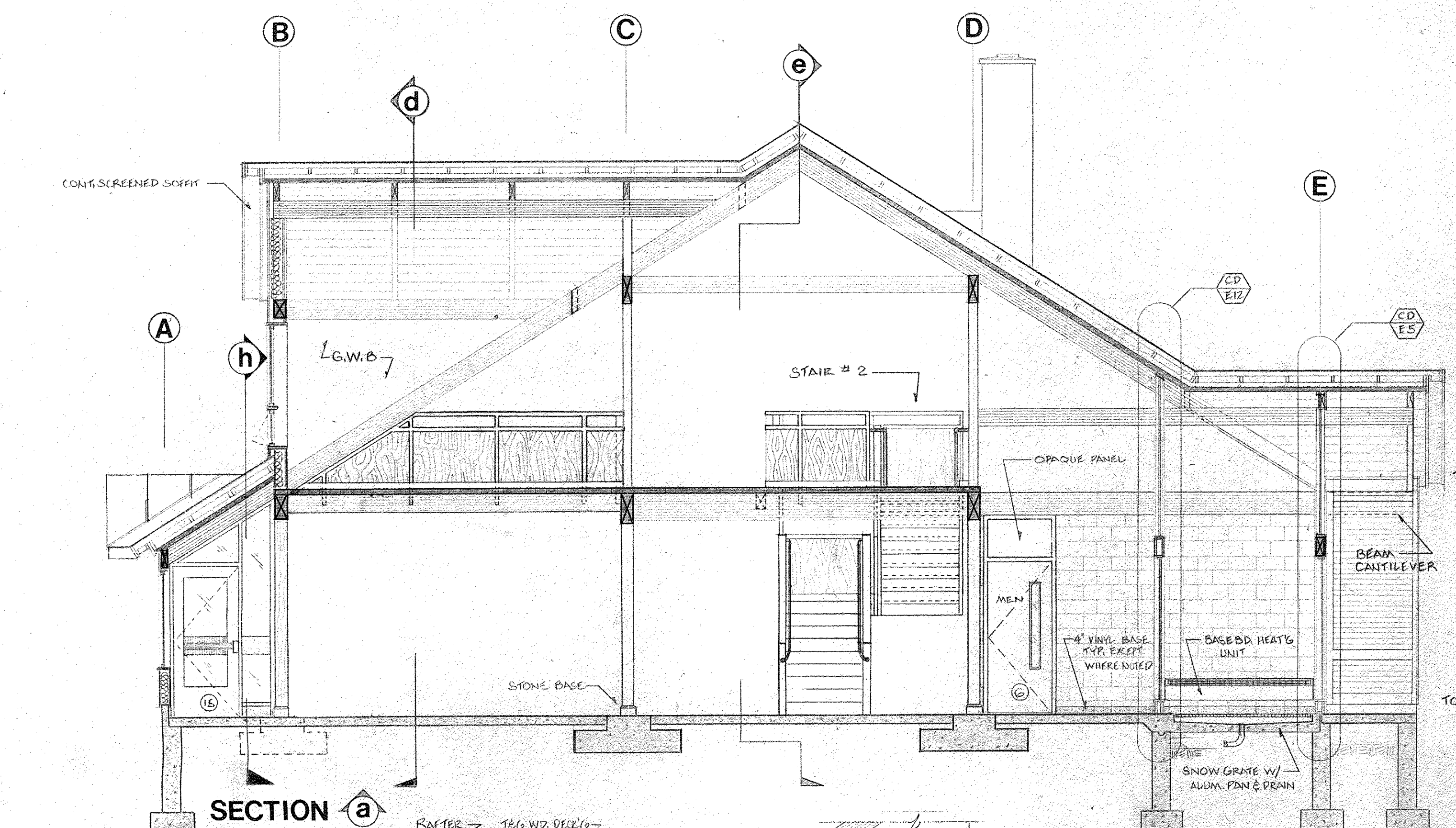
TOP OF SLAB
(ELEV. 784.5')

6'-0"

BOTTOM OF FOOT'G
(ELEV. 779.0')

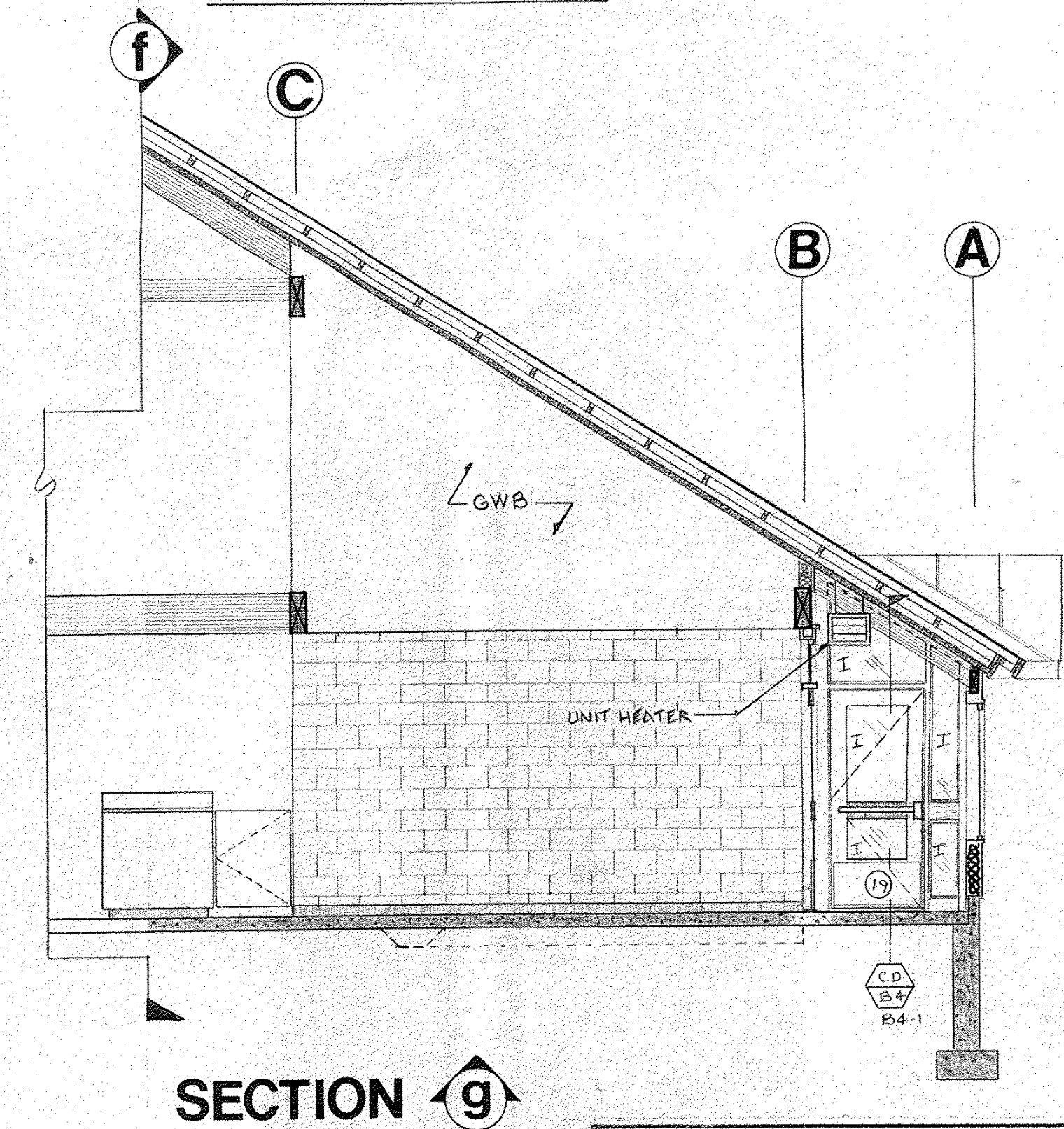
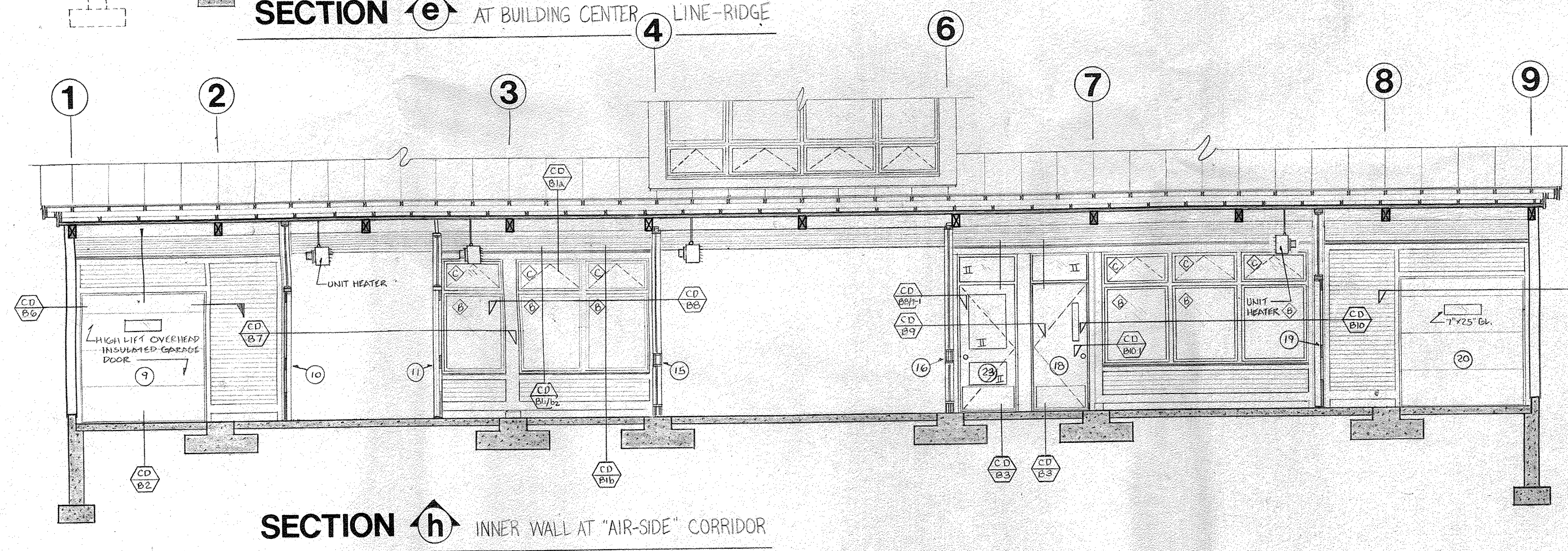
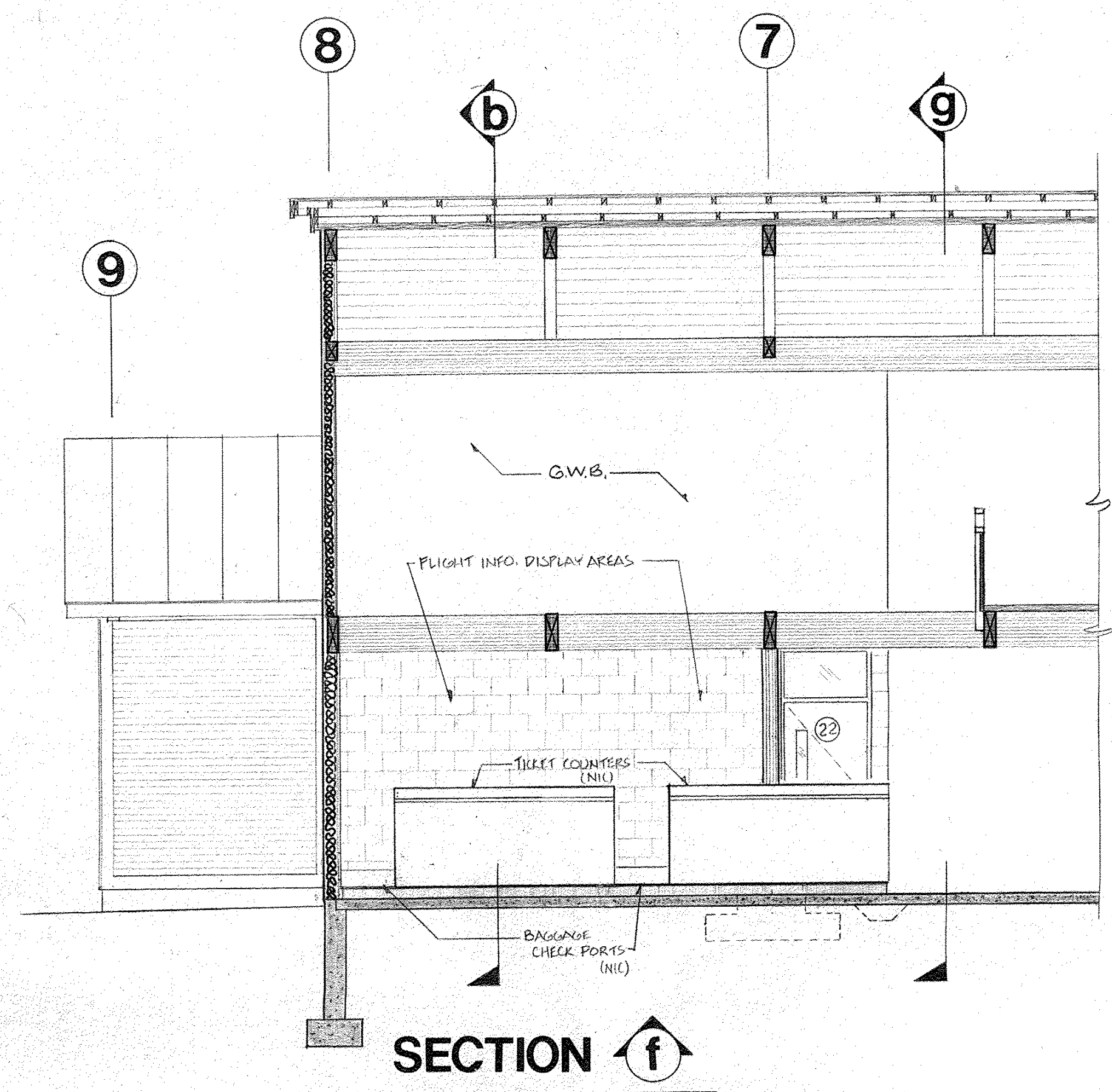
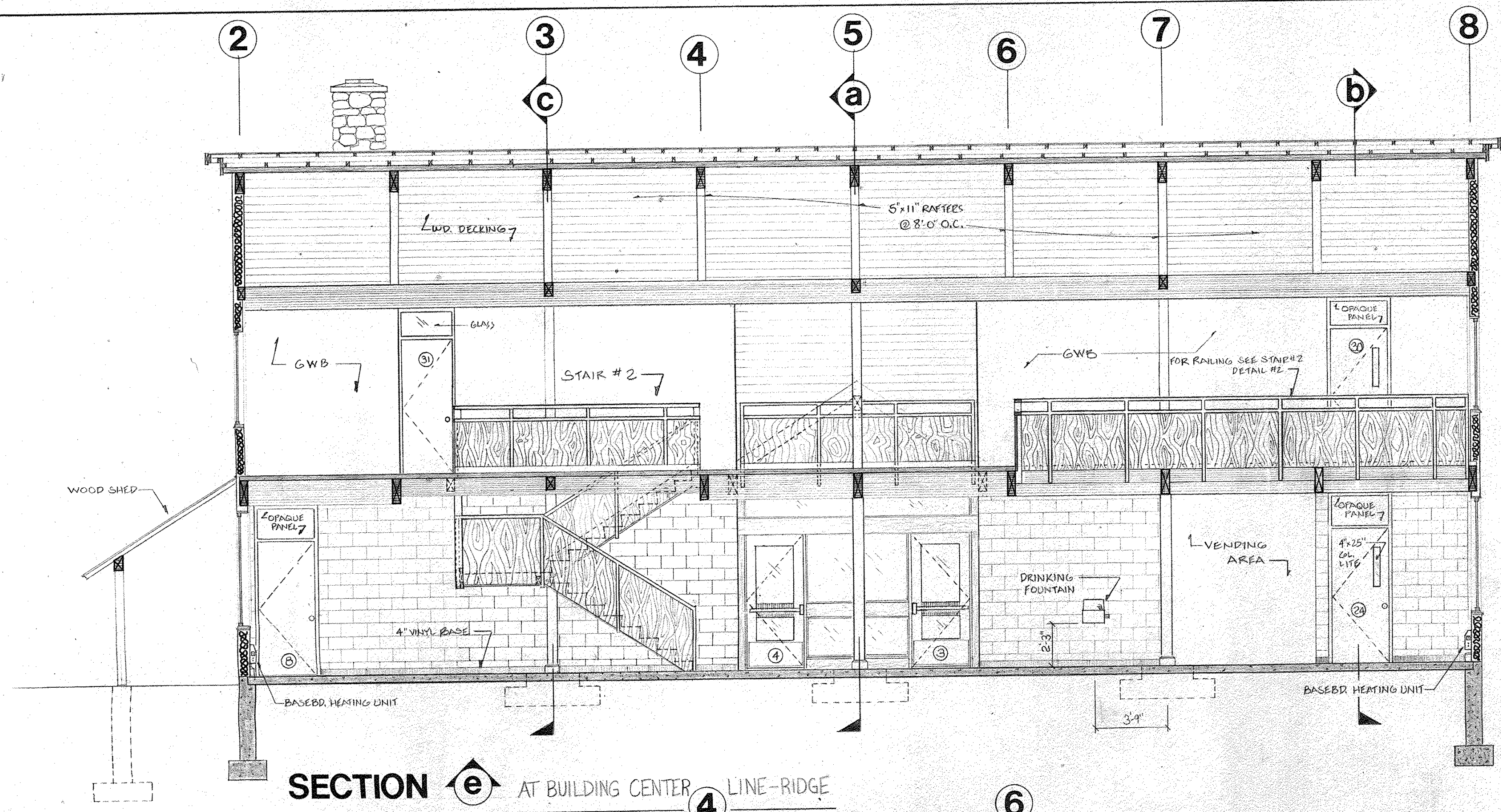
STATE OF VERMONT			
DIVISION OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER,		VERMONT	
RUTLAND TERMINAL BUILDING AIR 23-2024			
ELEVATIONS			
RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 2/21/84 S.A. NULBERN	DWG. NO. A-5
DRAWN BY: JPC	APPROVED BY: RA FOR D.G.B.		8 OF 19

8/10/84



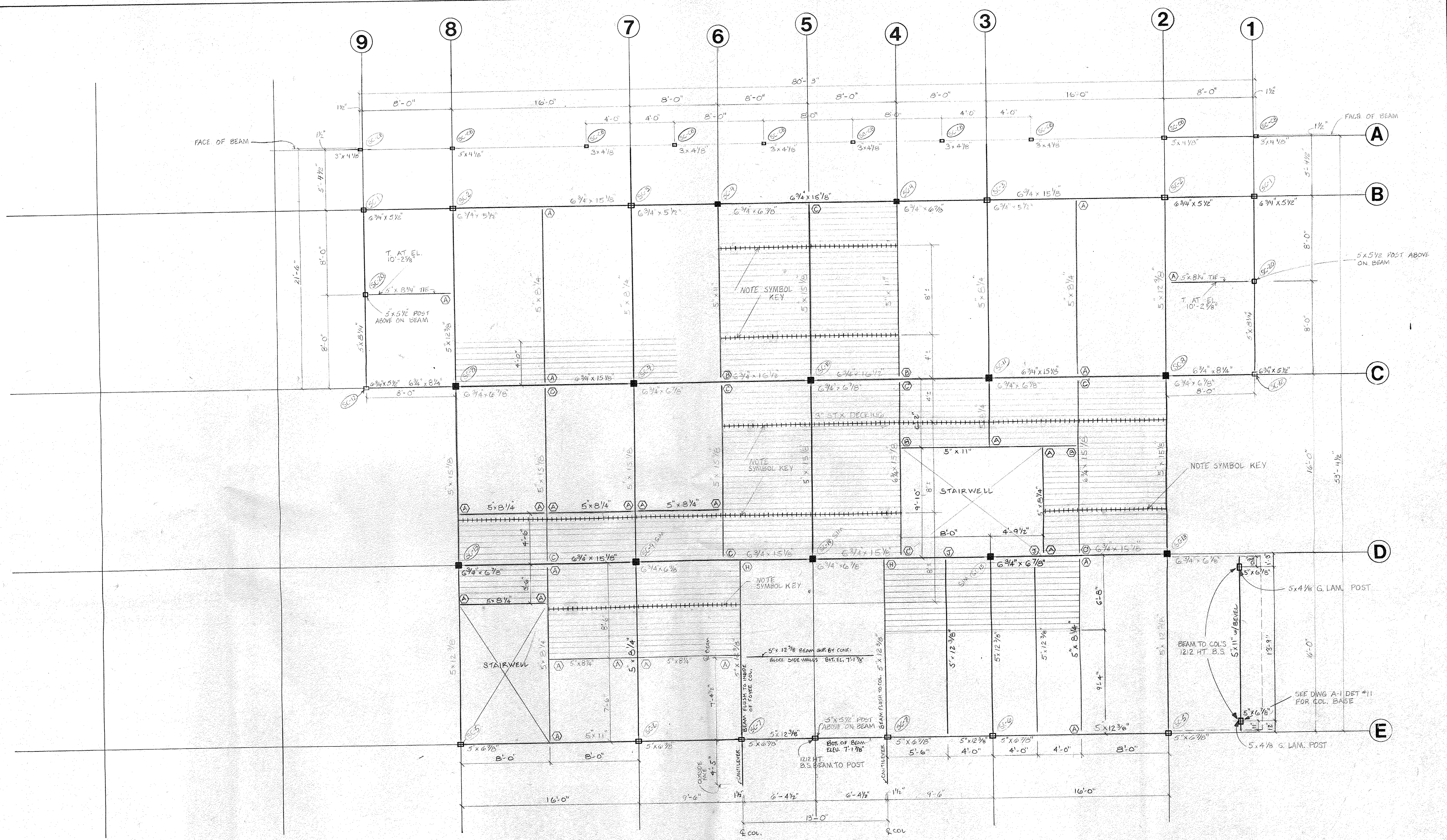
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DIVISION OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER.		VERMONT	
RUTLAND TERMINAL BUILDING AIR 23-2024			
SECTIONS/INT. ELEV.			
RUTLAND STATE AIRPORT			
CLARENDON, VERMONT			
DATE:	SCALE:	REVISIONS:	DWG. NO.
6-8-84	1/4" = 1'-0"		A-6
DRAWN BY:	APPROVED BY:		
JFD	129		
			9 of 19

8/10/84



STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING - AIR 23-2024 SECTIONS/INT. ELEV. RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 6/29/84 S.A. MULHERN	DWG. NO. A-7
DRAWN BY: JPO	APPROVED BY: RA Per. DSP		10 OF 19

8/10/84



NOTE: 1. TOP OF ALL BEAMS AT 10'-2 3/8" EXCEPT AS NOTED AT ENTRANCE (13'-0" SPAN)
 *2 FOR CONNECTIONS (C) ETC. SEE STRUCTURAL CONNECTION DETAIL DWGS. SERIES SC-1 TO SC-21, 15C-22. SCHEDULE OF BEAM TO BEAM OR COL CONNECTION FOR (A) (B) (C) ... ETC. DESIGNATED *3 STANDARD CORRECTIONS I.E.: 1212 HT. BBL, HST 2-12, 1212HL, 1212L, ETC. AS INDICATED BY THE SIMPSON CO. - "STRONG-TIE"

KEY

- or □ COLUMN STOPS BENEATH BEAM
- COLUMN CONTINUES
- ↑ FIRST COLUMN DIMENSION
- ↔ SECOND COLUMN DIMENSION
- ++++ ROUT OUT AT UNDER SIDE (DECK SOFFIT) 3/4" DEEP x 1/2" AT C OF DECKING PLANK UNIT, CONTINUOUS FOR FULL LENGTH OF DECKING

STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024 MEZZANINE FRAMING RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 7/26/84 - J.A. MULHERN	DWG. NO. SF-1
DRAWN BY: JPD	APPROVED BY: D. P. O'SHEA	11 OF 19	

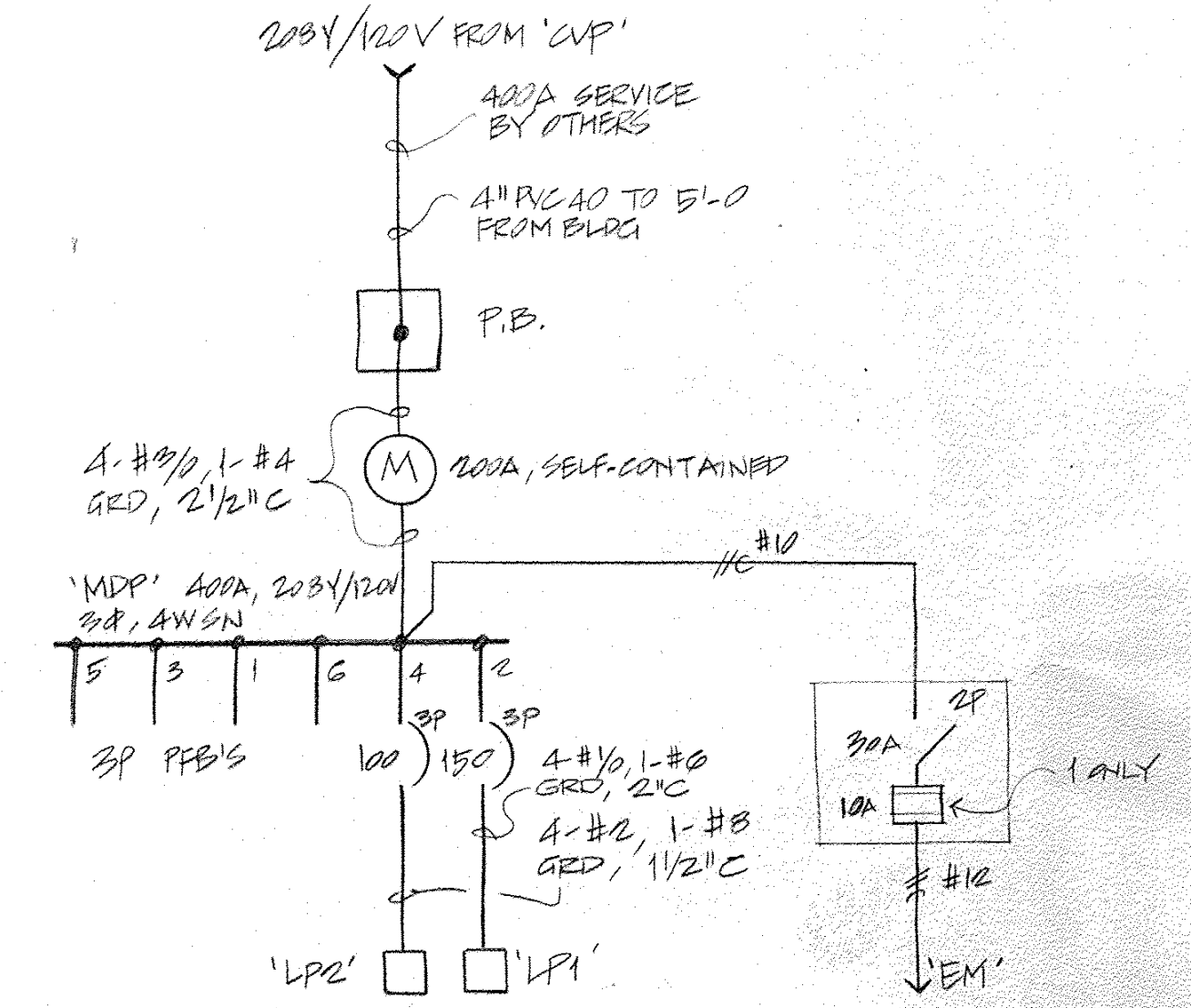
8/10/84

Type	Description	Lamps	Equal to
A	FLUORESCENT 2-LAMP WRAP-AROUND WITH PRISMATIC ACRYLIC DIFFUSER	2-F40W	LITHONIA SC240
B	OPEN		
C	SIMILAR TO 'A', 4 LAMPS	4-F40W	LITHONIA SC440
D	FLUORESCENT 24 X 48 SURFACE WITH 4 LAMPS, 1/2 X 1/2 ALUM. EGGRATE DIFFUSER, PAINT AS DIR'D	4-F40W	DAY-BRITE "DAYLUM"
E	SIMILAR TO 'D', 24 X 48, 2-LAMP	2-F40W	
F	SAME AS 'E', BUT WITH 2 SINGLE LAMP BALLASTS	2-F40W	
G	FLUORESCENT OPEN STRIP, 2-LAMP	2-F40W	LITHONIA C140
H	FLUORESCENT OPEN STRIP, 1-LAMP	1-F40W	LITHONIA C240

I	WALL MOUNTED SINGLE-LAMP FLUOR. METAL BOX SHIELD, BRONZE FIN.	1-F40W	LIGHTOLIER C04-4241
J	SAME AS 'I', BUT WITH LO-TEMP BALLASTS		
K	SIMILAR TO 'I', BUT 8 FT LONG	2-F40W	LIGHTOLIER C04-4281
L	WALL-MOUNTED SINGLE-LAMP FLUOR. OPAL ACRYLIC WRAP-AROUND DIFF'R	1-F40W	PRESCOLITE 3087
M	EXTERIOR INCAND. WALL BRACKET, 6 IN. DIA., BRONZE FIN.	A19 91W	PRESCOLITE 1165-363
N	INCAND. PENDANT 6-IN. CYLINDER BRONZE FIN.	PAR-38 136W FL	PRESCOLITE 1125-920
MI	SAME AS 'M'	R-30, 75W	
O	INCAND. SURFACE 5-IN. CYLINDER BRONZE FIN.	R-30 75W	PRESCOLITE 1102-910
OI	FLUORESCENT SINGLE-LAMP VANDAL PROOF, POLY CARB LENS	F40W	KENALL 7140
OII	SAME AS 'OI' BUT WITH LO-TEMP BALLAST		

SYMBOL LEGEND

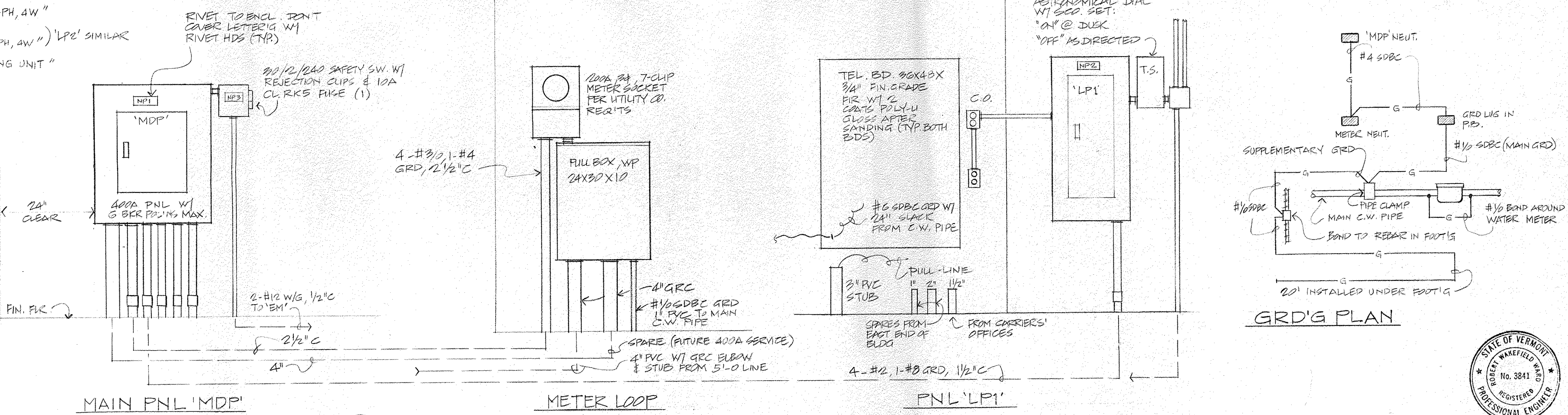
- Branch circuits concealed in ceiling or wall, 2 No. 12 wires in raceway unless otherwise noted. Hash marks indicate number of wires when more than two.
- Branch circuit as above concealed in floor or ground.
- Branch circuit as above exposed.
- Auxiliary circuit (T = telephone, S = sound, &c).
- Home run to panelboard or cabinet (No. of arrows = No. circuits).
- Fluorescent light fixture, ceiling mounted, with circuit number inside and type designation outside.
- Fluorescent fixture, wall mounted, as above.
- Fluorescent strip fixture, ceiling mounted, as above.
- Fluorescent strip fixture, wall mounted, as above.
- Incandescent fixture, ceiling mounted, as above. PC = PULL CHAIN
- Incandescent fixture, wall mounted, as above.
- Exit light, ceiling mounted, directional arrows as required.
- Exit light, wall mounted. FACE INDICATED SELF ILLUMINATED.
- Junction box installed in floor or ceiling.
- Junction box installed in wall.
- Duplex convenience outlet, 2P, 3W grounding type. + 1/2" U.O.N.
- Duplex outlet as above, SPLIT WIRED
- Convenience outlet installed in floor.
- Special purpose outlet, rating as noted.
- Clock outlet.
- Telephone outlet.
- Telephone outlet installed in floor.
- Wall switch, single-pole (P = pilot light). + 48" U.O.N.
- Wall switch, double-pole.
- Wall switch, three-way (4 = 4-way).
- Dimmer, rating as noted.
- Panelboard, power.
- Panelboard or load center, lighting.
- Telephone cabinet.
- Electric Motor with HP noted.
- Functional HP motor less than 1/8 HP.
- Safety switch, HP-rated, non-fusible unless otherwise noted.
- Magnetic motor starter, across-the-line unless otherwise noted.
- Manual motor starter.
- Dry-type transformer, rating as noted.
- Fire alarm pull station.
- Fire alarm bell with bell diameter noted.
- Fire alarm annunciator panel.
- Fire alarm control cabinet.
- Fire alarm detector, temperature type.
- Fire alarm detector, smoke type.
- Signal outlet installed in ceiling (I = intercom, S = speaker, TV = television, M = microphone, PA = public address, V = volume control).
- Signal outlet installed in floor.
- Signal outlet installed in wall.
- Bell.
- Buzzer.
- Push button.
- T-STAT, PROVIDED BY MECH.



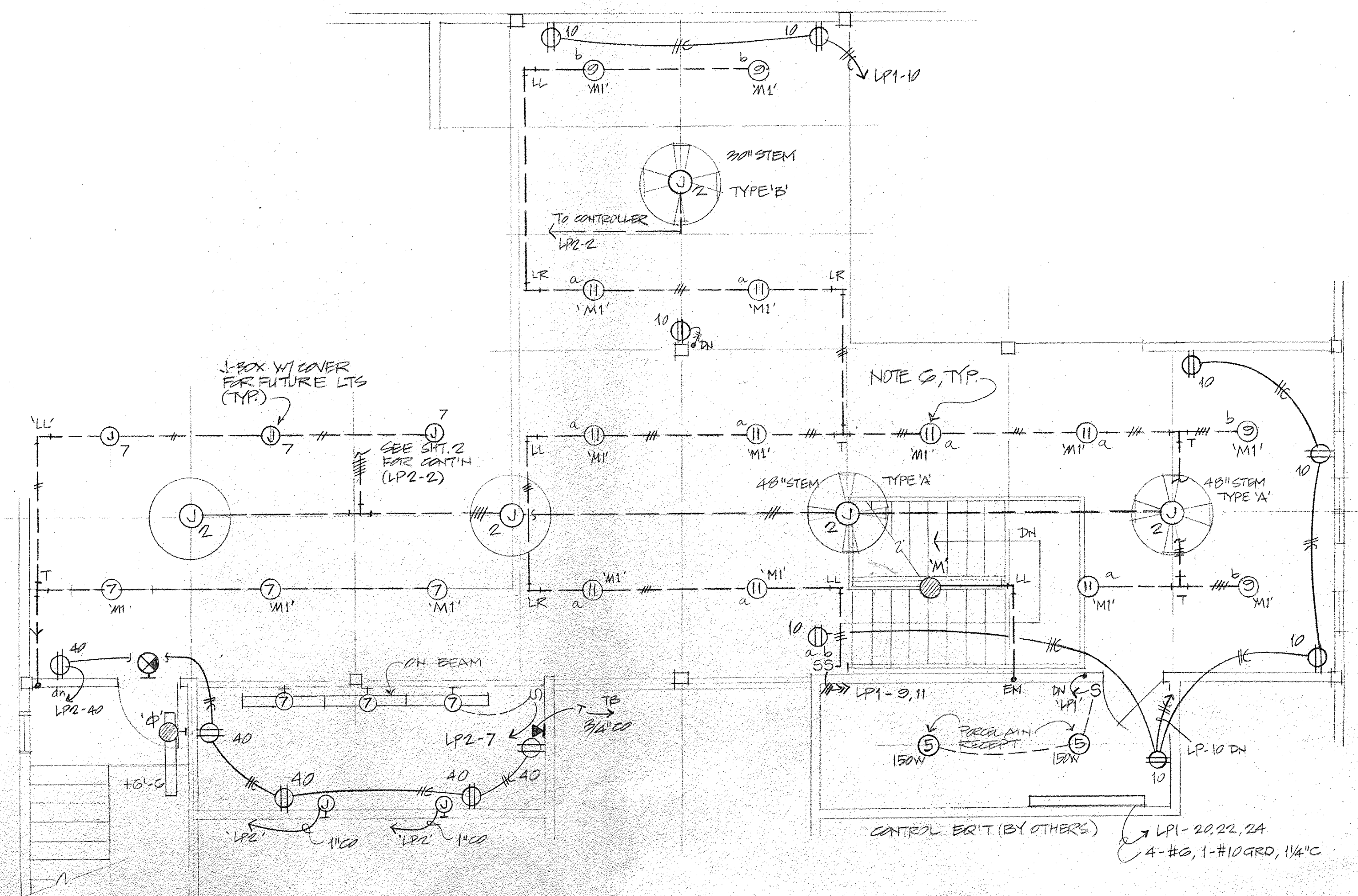
2 SINGLE-LINE DIAG.
E-1 NO SCALE

NAME PLATES

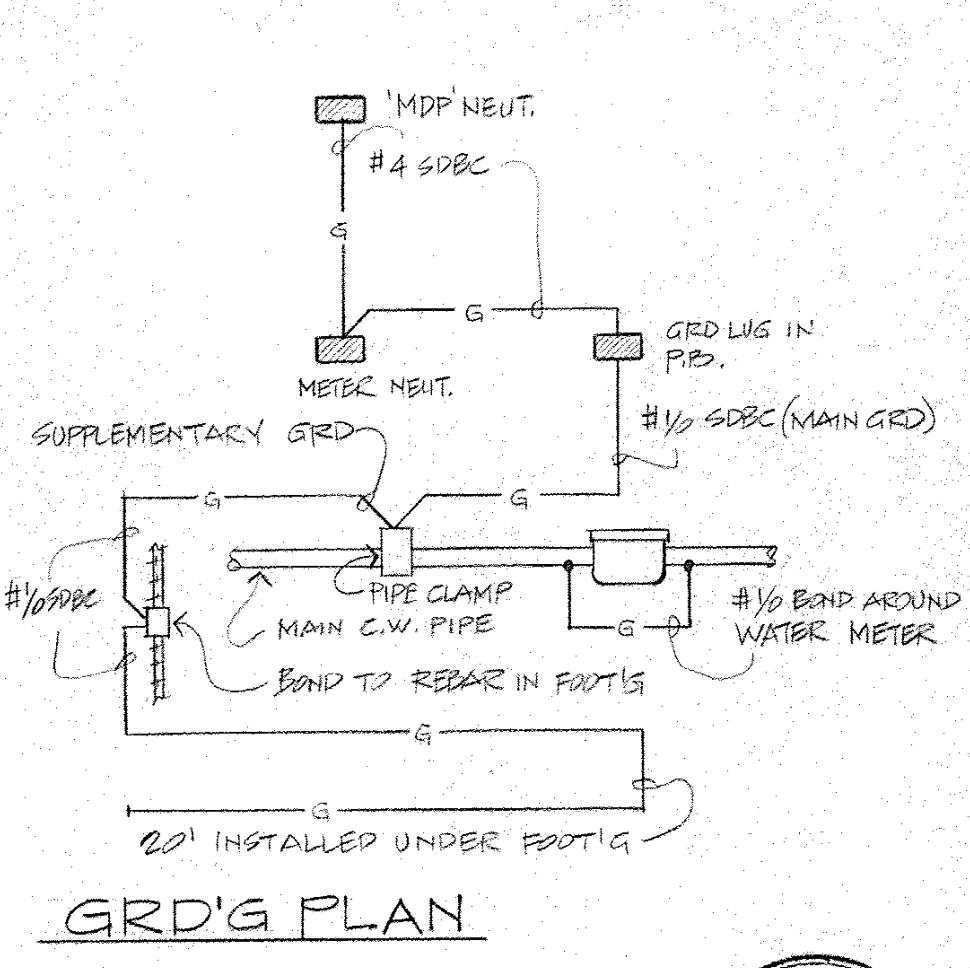
- PLASTIC LAMINATE YELLOW W/ BLACK LETTERS
- NP1 "PANEL 'MDP'"
100A, 120/208V, 3-PH, 4W"
- NP2 "PANEL 'LPI'"
100A, 120/208V, 3-PH, 4W" (LPE SIMILAR)
- NPS "EMERGENCY LIGHTING UNIT"



1 EQ'T ELEVATIONS
E-1 SCALE: 3/4" = 1'-0"



2 MEZZANINE PLAN
E-1 SCALE: 1/4" = 1'-0"



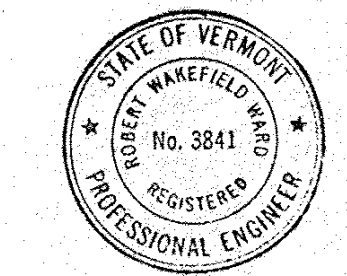
GRD'S PLAN

CEILING FAN, CONTRACTOR PROVIDED
TYPE 'A' 52" HUNTER 22272/22300
TYPE 'B' 38" HUNTER 22270/22300
COMPLETE W/ VARIABLE SPEED CONTROL

STATE OF VERMONT
DIVISION OF STATE BUILDINGS
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

RUTLAND TERMINAL BUILDING AIR 23-2024
MEZZ. ELEC. PLAN & DETS.
RUTLAND STATE AIRPORT
CLARENDON, VERMONT

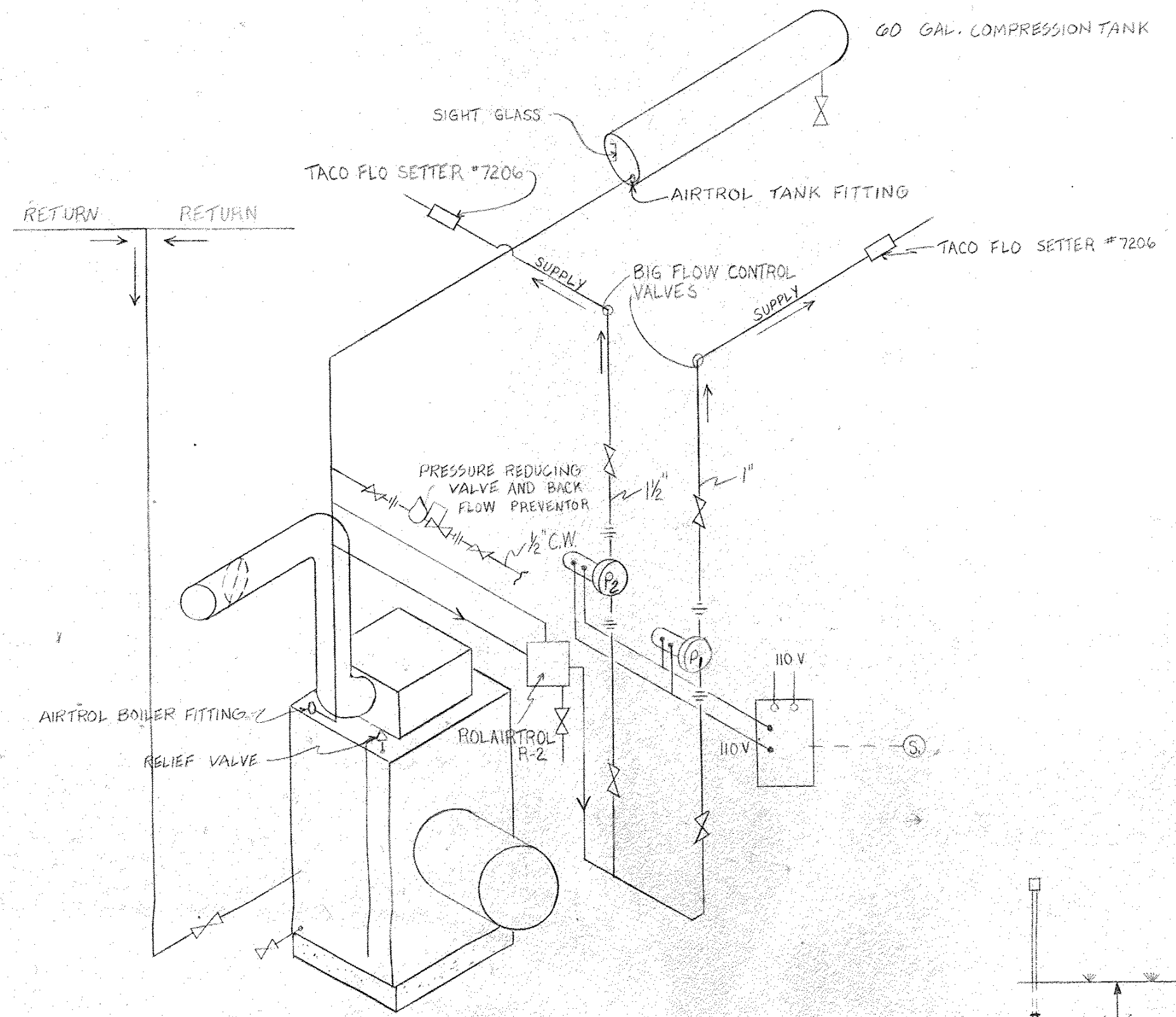
DATE: JUNE 21, 1984	SCALE: AS NOTED	REVISIONS:	DWG. NO. E-1
DRAWN BY: BAF	APPROVED BY: BAF		14 OF 19



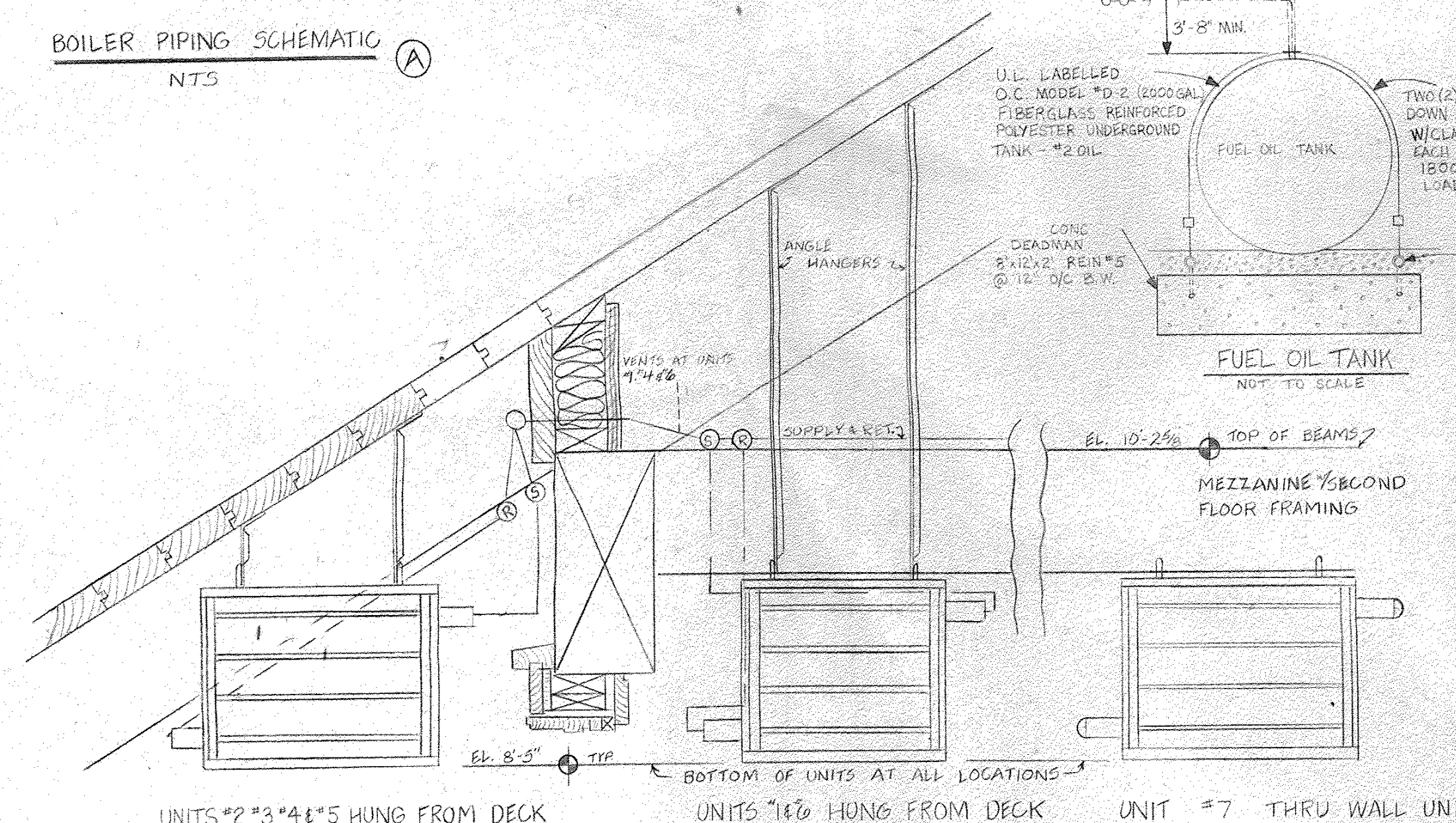
8/10/84

Wakefield Ward & Associates, Ltd.
Consulting Electrical Engineer

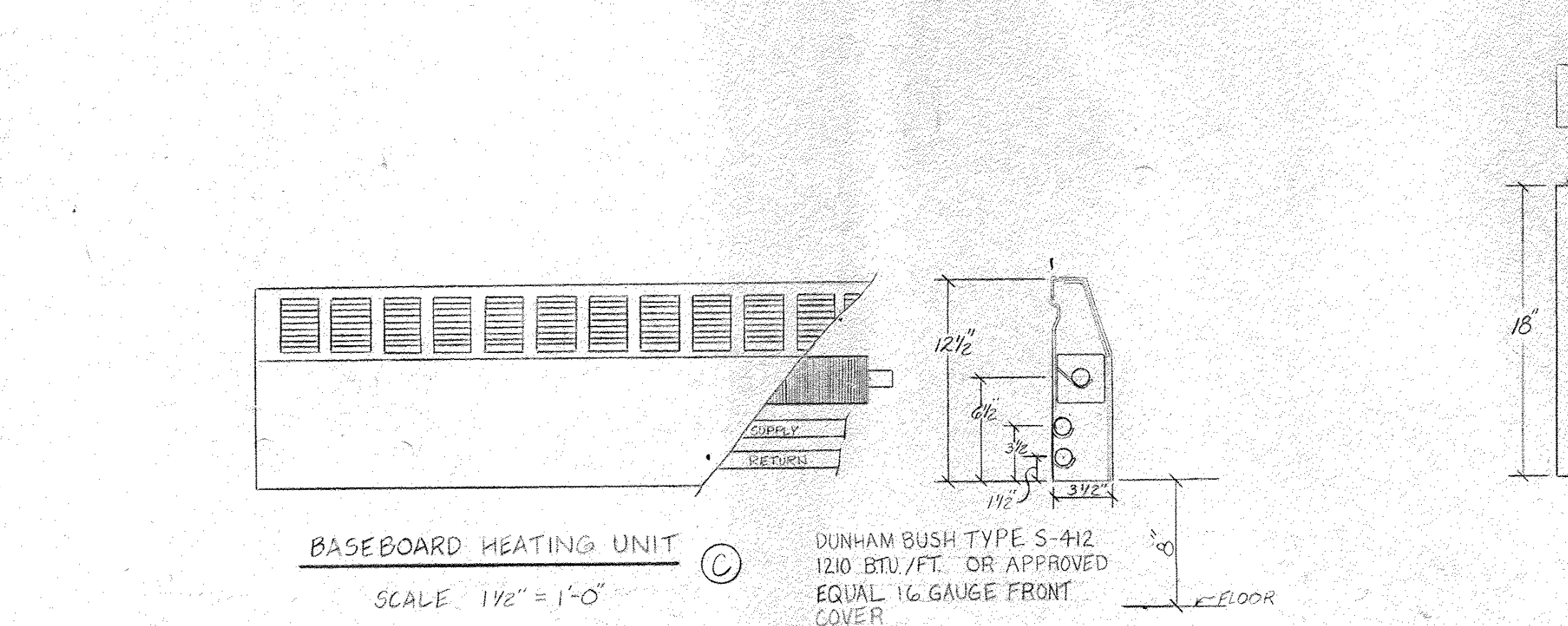
VOLTS 208/120		MAIN BKR		PANEL 'LP1'			FEED: BOTTOM		TOP	
PHASE	W	BKR TYPE	W	L1	L2	L3	MTG:	SURFACE	FLUSH	
NEUTRAL	4N						TYPE:	PANELLBD	LOAD CTR	
BUS	225A	BKR A.T.C.	W				DOOR:	WITH	WITHOUT	
CKT NO.	LOAD	QTY	P	A			BKR	QTY	LOAD	CKT NO.
1	LTG	1					20	1	C.O.S (TEL)	2
2	"	1					20	1	"	3
3	"	1					20	1	"	4
4	"	1					20	1	"	5
5	"	1					20	1	"	6
6	"	1					20	1	"	7
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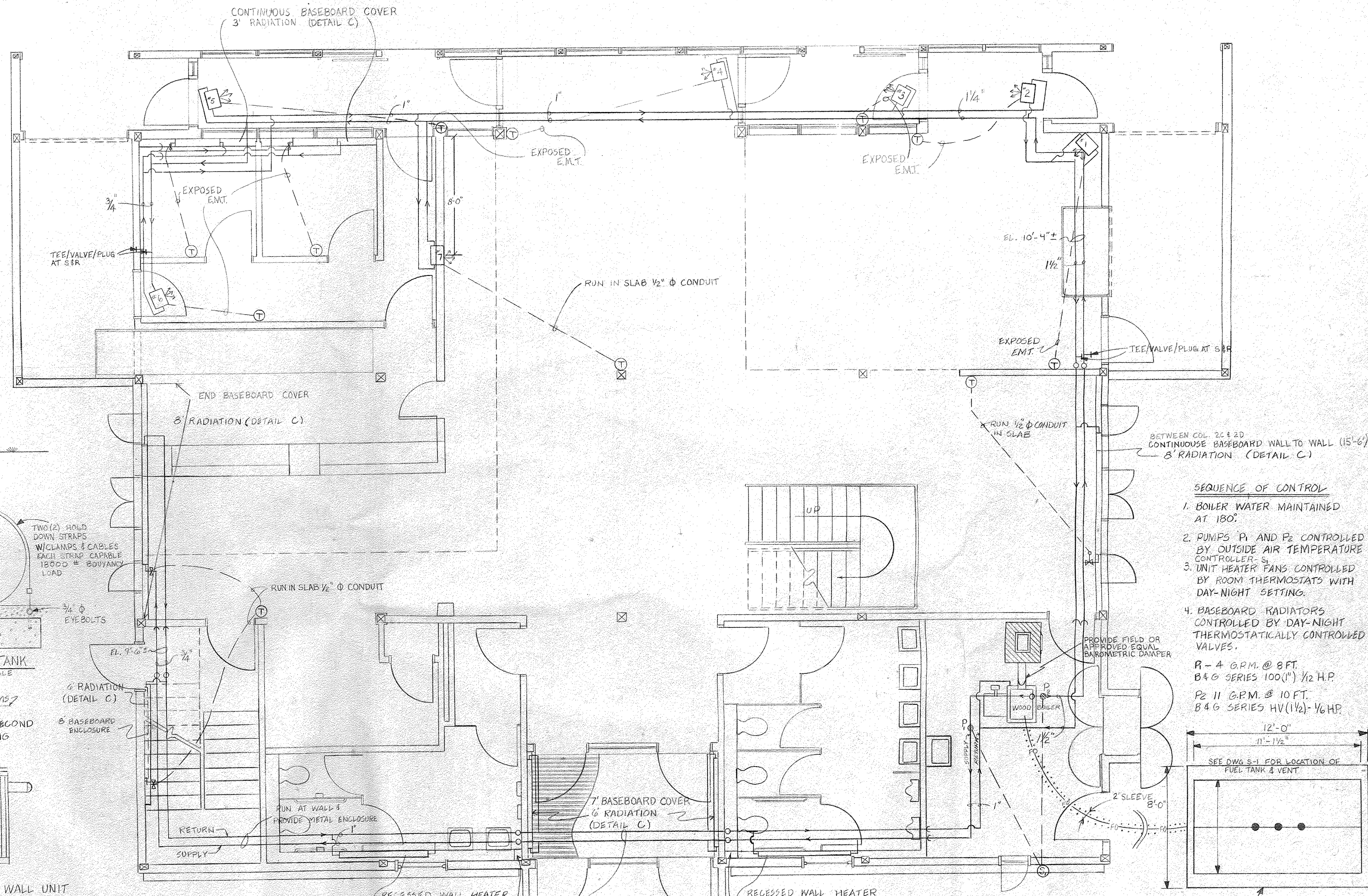
BOILER PIPING SCHEMATIC
NTS



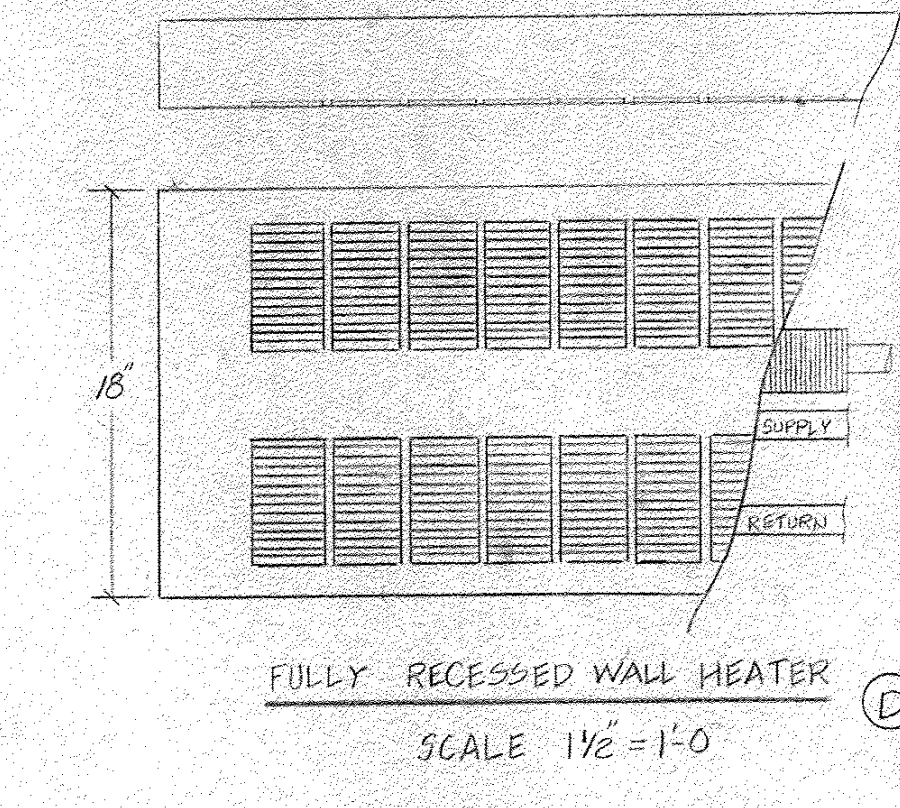
HEATING DETAIL
SCALE 1 1/2" = 1'-0"



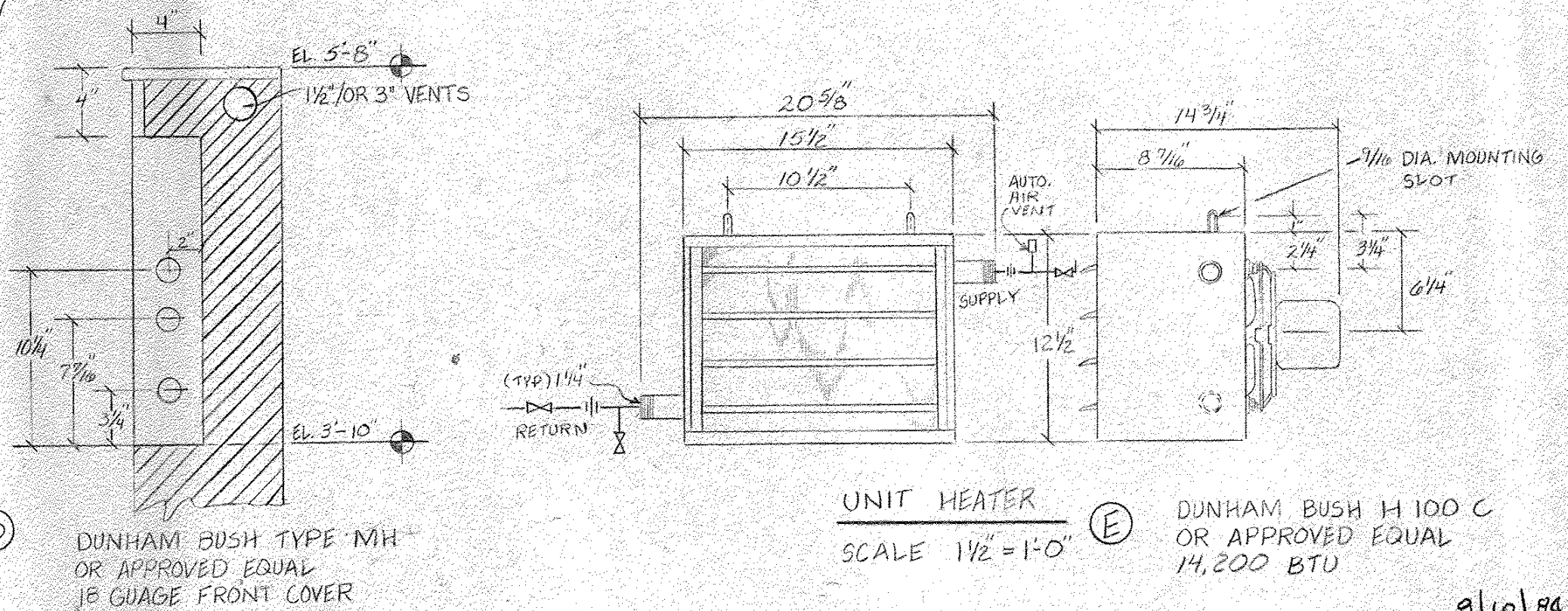
BASEBOARD HEATING UNIT
SCALE 1 1/2" = 1'-0"



HEATING PLAN
SCALE 1/4" = 1'-0"



FULLY RECESSED WALL HEATER
SCALE 1 1/2" = 1'-0"



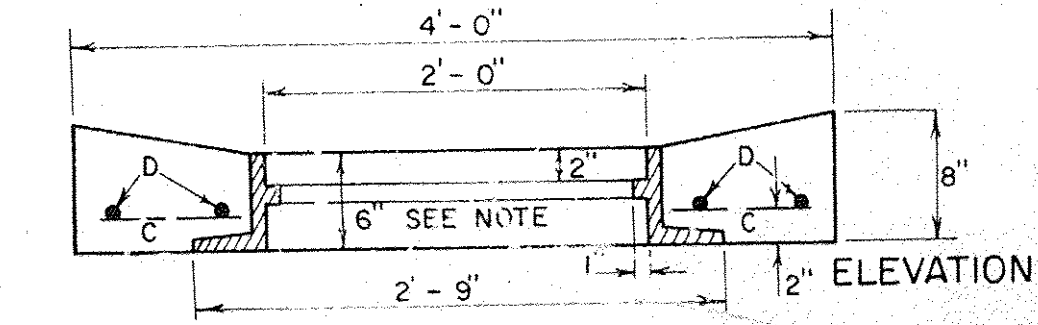
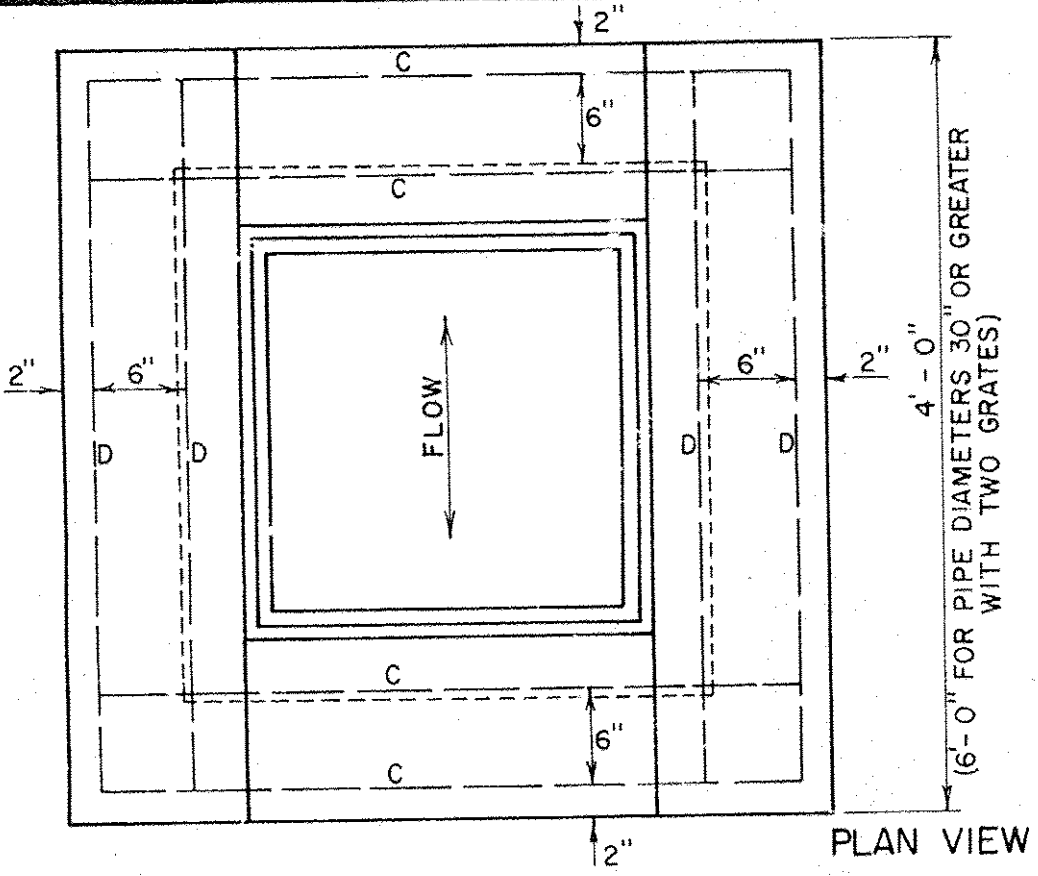
UNIT HEATER
SCALE 1 1/2" = 1'-0"

- SEQUENCE OF CONTROL**
1. BOILER WATER MAINTAINED AT 180°
 2. PUMPS P1 AND P2 CONTROLLED BY OUTSIDE AIR TEMPERATURE CONTROLLER-S
 3. UNIT HEATER FANS CONTROLLED BY ROOM THERMOSTATS WITH DAY-NIGHT SETTING.
 4. BASEBOARD RADIATORS CONTROLLED BY DAY-NIGHT THERMOSTATICALLY CONTROLLED VALVES.

R-4 G.P.M. @ 8 FT.
B4G SERIES 100(1") 1/2 H.P.
P2 11 G.P.M. @ 10 FT.
B4G SERIES HV(1 1/2)-1/6 H.P.

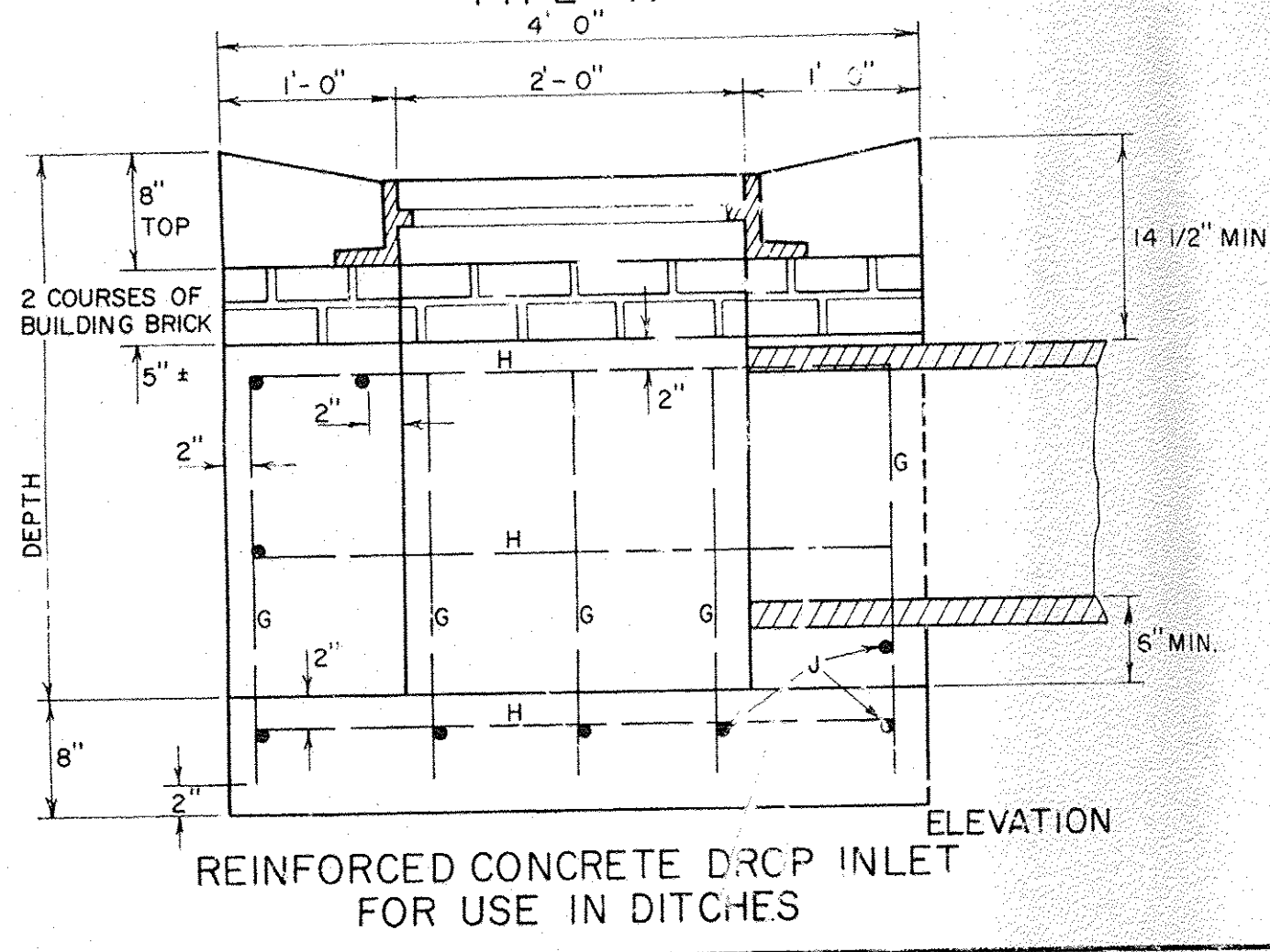
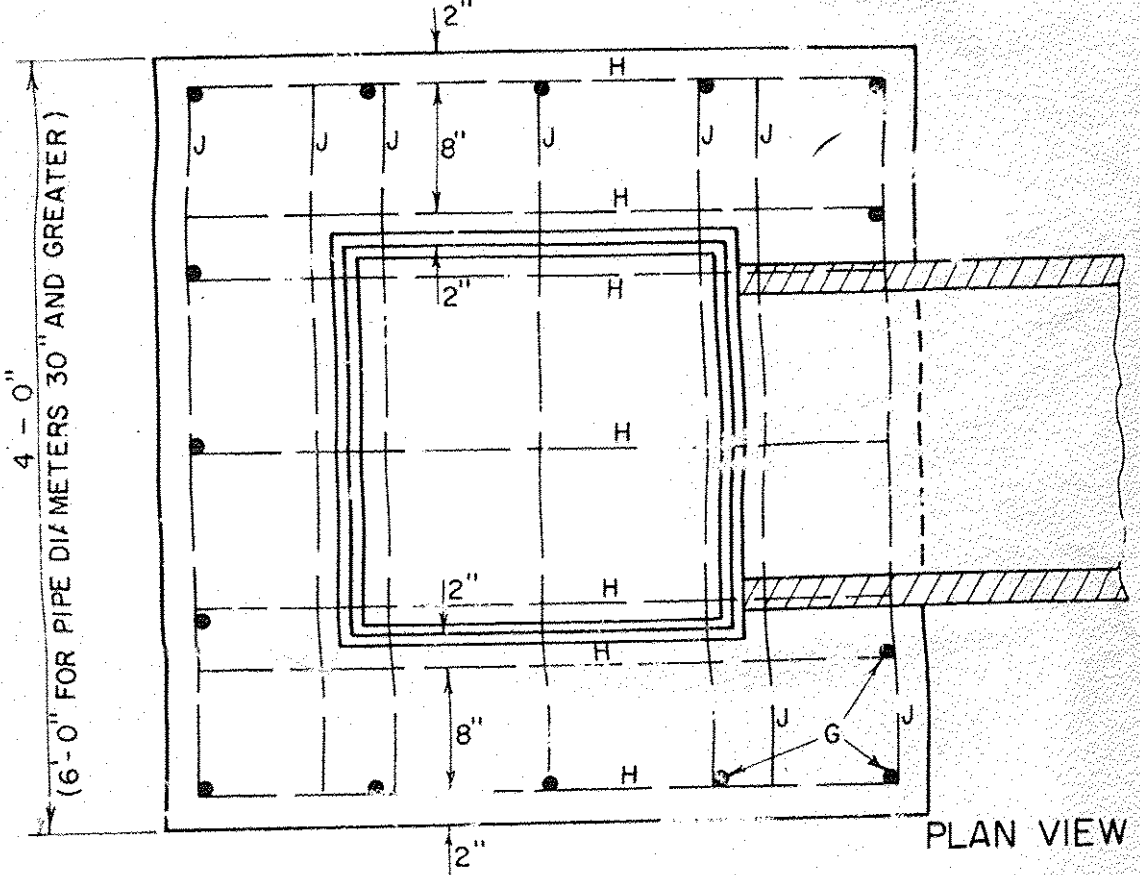
STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024			
HEATING PLAN			
RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6/8/84	SCALE: AS NOTED	REVISIONS: 6/29/84 S.A. MULLHORN	DWG. NO. H-1
DRAWN BY: R. TETREULT	APPROVED BY: [Signature]		16 of 19

8/10/84



NOTE—FRAME SHOWN IS FOR TYPE A GRATE, SEE SHEET D-11. FOR TYPE B GRATE AND FRAME, SEE SHEET D-16 (EXCEPT THE FRAME DEPTH DIMENSION SHALL BE 6").

TOP FOR REINFORCED CONCRETE DROP INLET WITH GRATE FOR USE IN DITCHES



STEEL SCHEDULE																														
4'x4' DROP INLET TYPE A						4'x6' DROP INLET WITH TWO GRATES TYPE B						TYPE C						4'x6' DROP INLET WITH ONE GRATE WITH 4'x6' TOP												
12", 15", 18", 24"						30", 36"						30", 36"						30", 36"												
DEPTH	G	LENGTH	H	J	LENGTH	C	D	LENGTH	G	LENGTH	H	LENGTH	J	LENGTH	C	LENGTH	D	LENGTH	DEPTH	G	LENGTH	H	LENGTH	J	LENGTH	C	LENGTH	D	LENGTH	DEPTH
3'-0"	15	2'-3"	22	3'-8"	8	3'-8"													3'-0"											
3'-6"	15	2'-9"	22	3'-8"	8	3'-8"													3'-6"											
4'-0"	15	3'-3"	29	3'-8"	8	3'-8"			17	3'-3"	19	3'-8"	10	5'-8"	4	3'-8"	4	5'-8"	4'-0"	17	3'-8"	19	3'-8"	10	5'-8"	6	3'-8"	4	5'-8"	4'-0"
4'-6"	15	3'-9"	29	3'-8"	8	3'-8"			17	3'-9"	19	3'-8"	10	5'-8"	4	3'-8"	4	5'-8"	4'-6"	17	3'-8"	19	3'-8"	10	5'-8"	6	3'-8"	4	5'-8"	4'-6"
5'-0"	15	4'-3"	35	3'-8"	8	3'-8"			17	4'-3"	23	3'-8"	13	5'-8"	4	3'-8"	4	5'-8"	5'-0"	17	3'-8"	23	3'-8"	13	5'-8"	6	3'-8"	4	5'-8"	5'-0"
5'-6"	15	4'-9"	35	3'-8"	8	3'-8"			17	4'-9"	23	3'-8"	13	5'-8"	4	3'-8"	4	5'-8"	5'-6"	17	3'-8"	23	3'-8"	13	5'-8"	6	3'-8"	4	5'-8"	5'-6"
6'-0"	15	5'-3"	41	3'-8"	8	3'-8"			17	5'-3"	27	3'-8"	15	5'-8"	4	3'-8"	4	5'-8"	6'-0"	17	3'-8"	27	3'-8"	15	5'-8"	6	3'-8"	4	5'-8"	6'-0"
6'-6"	15	5'-9"	41	3'-8"	8	3'-8"			17	5'-9"	31	3'-8"	15	5'-8"	4	3'-8"	4	5'-8"	6'-6"	17	3'-8"	27	3'-8"	15	5'-8"	6	3'-8"	4	5'-8"	6'-6"
7'-0"	15	6'-3"	47	3'-8"	8	3'-8"			17	6'-3"	35	3'-8"	17	5'-8"	4	3'-8"	4	5'-8"	7'-0"	17	3'-8"	35	3'-8"	17	5'-8"	6	3'-8"	4	5'-8"	7'-0"
7'-6"	15	6'-9"	47	3'-8"	8	3'-8"			17	6'-9"	35	3'-8"	17	5'-8"	4	3'-8"	4	5'-8"	7'-6"	17	3'-8"	35	3'-8"	17	5'-8"	6	3'-8"	4	5'-8"	7'-6"
8'-0"	15	7'-3"	53	3'-8"	8	3'-8"			17	7'-3"	39	3'-8"	19	5'-8"	4	3'-8"	4	5'-8"	8'-0"	17	3'-8"	39	3'-8"	19	5'-8"	6	3'-8"	4	5'-8"	8'-0"

STEEL AND CONCRETE QUANTITIES																
4'x4' DROP INLET				4'x6' DROP INLET WITH TWO GRATES				4'x6' DROP INLET WITH ONE GRATE WITH 4'x6' TOP				STEEL SCHEDULE TYPE D				
12"-15"-18"-24" TYPE A				30" TYPE B				36" TYPE C				4'x6' DROP INLET WITH ONE GRATE WITH 4'x4' TOP				
DEPTH	CONCRETE		STEEL	CONCRETE		STEEL	CONCRETE		STEEL	CONCRETE		STEEL	DEPTH	CONCRETE		STEEL
	C.Y.	LBS.		C.Y.	LBS.		C.Y.	LBS.		C.Y.	LBS.			C.Y.	LBS.	
3'-0"	1.7	150											3'-0"	1.7	150	
3'-6"	1.9	158											3'-6"	1.9	158	
4'-0"	2.1	193		2.8	228					2.8	244		4'-0"	2.1	193	2.8
4'-6"	2.3	200	3.0	237	2.9	237	3.1	252	3.0	252	3.0	252	4'-6"	2.3	200	3.0
5'-0"	2.3	231	3.3	279	3.2	279	3.4	294	3.3	294	3.3	294	5'-0"	2.3	231	3.3
5'-6"	2.8	239	3.6	288	3.5	288	3.7	303	3.6	303	3.6	303	5'-6"	2.8	239	3.6
6'-0"	3.0	270	3.9	324	3.8	324	4.0	339	3.9	339	3.9	339	6'-0"	3.0	270	3.9
6'-6"	3.2	278	4.2	348	4.1	348	4.3	363	4.2	363	4.2	363	6'-6"	3.2	278	4.2
7'-0"	3.5	308	4.5	384	4.4	384	4.6	399	4.5	399	4.5	399	7'-0"	3.5	308	4.5
7'-6"	3.7	316	4.8	393	4.7	393	4.9	408	4.8	408	4.8	408	7'-6"	3.7	316	4.8
8'-0"	3.9	347	5.1	429	5.0	429	5.2	444	5.1	444	5.1	444	8'-0"	3.9	347	5.1

ALL REINFORCING STEEL TO BE NO. 5 DEFORMED BARS, EVENLY SPACED WITH A MAXIMUM SPACING OF 12" C/C.

ALL STEEL TO HAVE 2 INCH MIN. COVER.

DROP INLET TO BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL CONCRETE, SECTION 501.

GRATES TO CONFORM TO DROP INLETS, CATCH BASINS, AND MANHOLES, SECTION 604.

FURNISHING AND LAYING OF BRICKS FOR ADJUSTING ELEVATION OF GRATE SHALL BE INCLUDED IN UNIT BID PRICE FOR CONCRETE, CLASS B, PAY ITEM 501.25, AND THEIR VOLUME TO BE INCLUDED IN THE FINAL QUANTITIES.

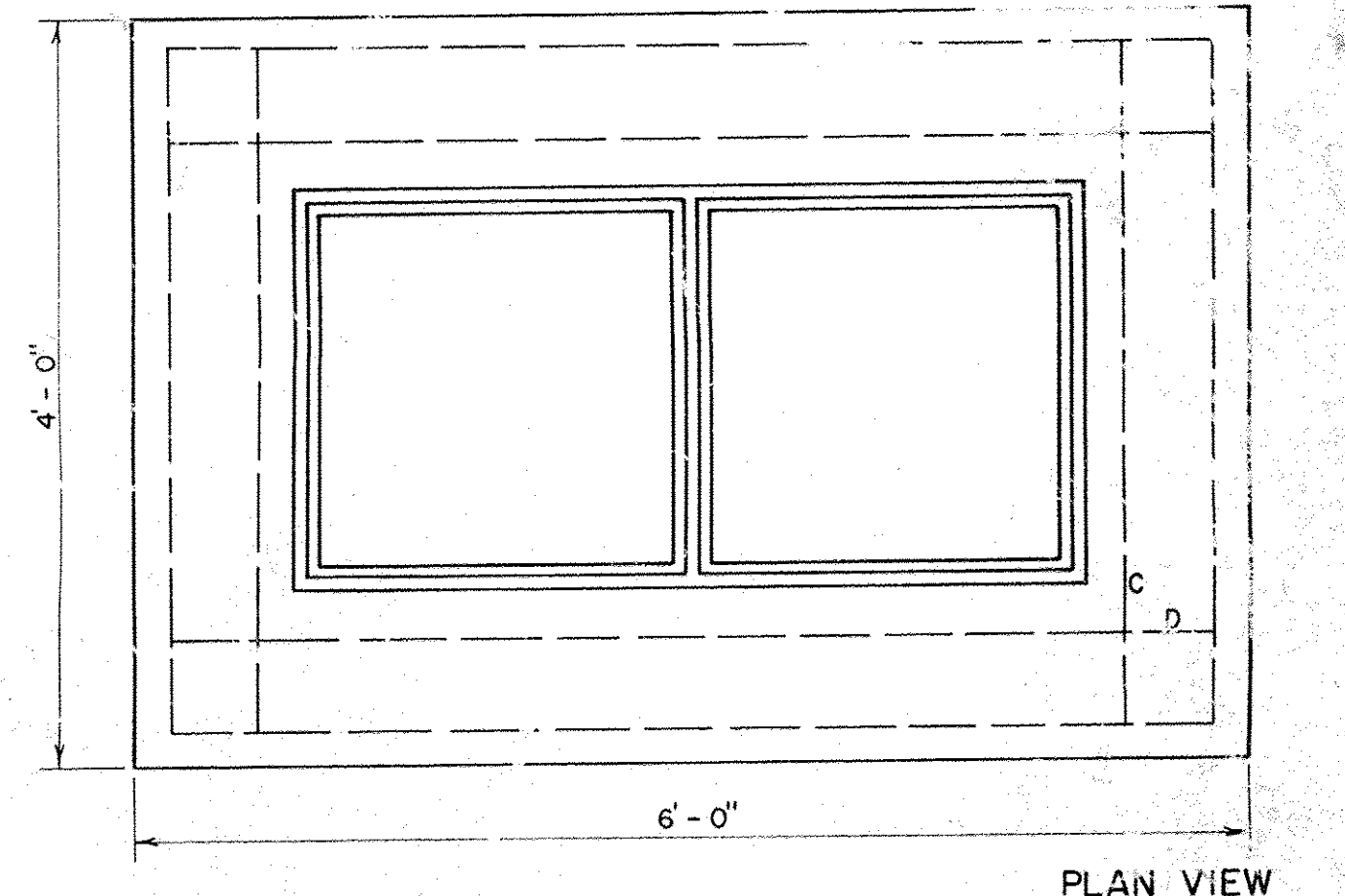
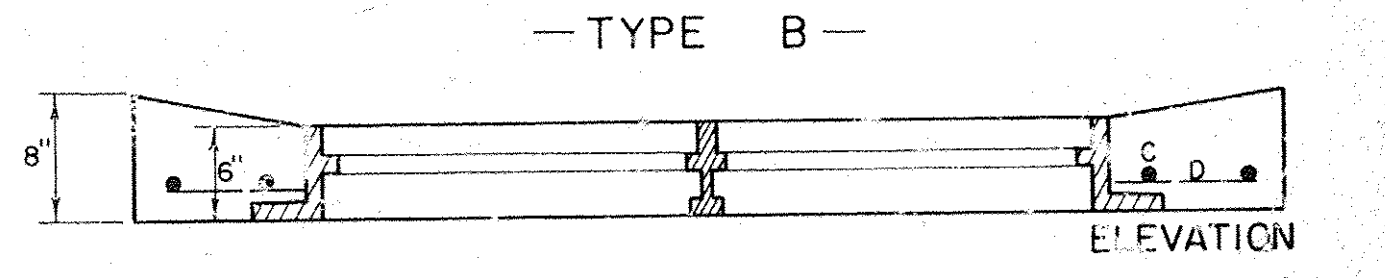
MORTAR, TYPE II, TO BE USED AS JOINT FILLER AND LAYING OF BRICK.

FOR PIPES OF 30" OR MORE IN DIAMETER, ALLOWANCE SHALL BE MADE FOR THE OPENING IN COMPUTING CONCRETE VOLUMES. THIS DEDUCTION WILL BE BASED ON THE RATED DIAMETER OF THE PIPE USED, WITH THE SAME DEDUCTION FOR CONCRETE AND METAL PIPE. ABOVE TABLES INDICATE DEDUCTION FOR ONE PIPE.

FOR 2nd 30" PIPE DEDUCT 0.18 CY. FOR 2nd 36" PIPE DEDUCT 0.26 CY.

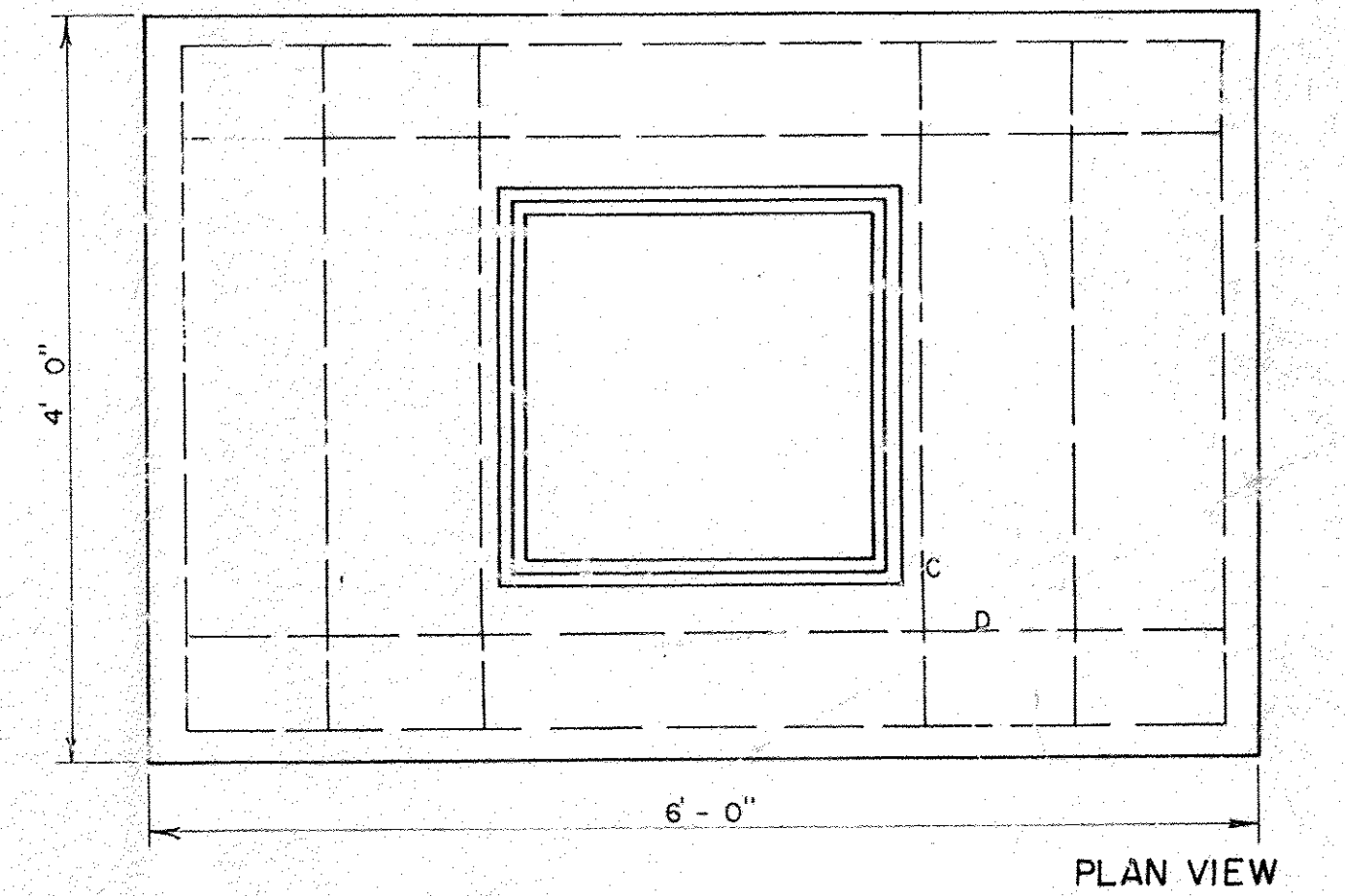
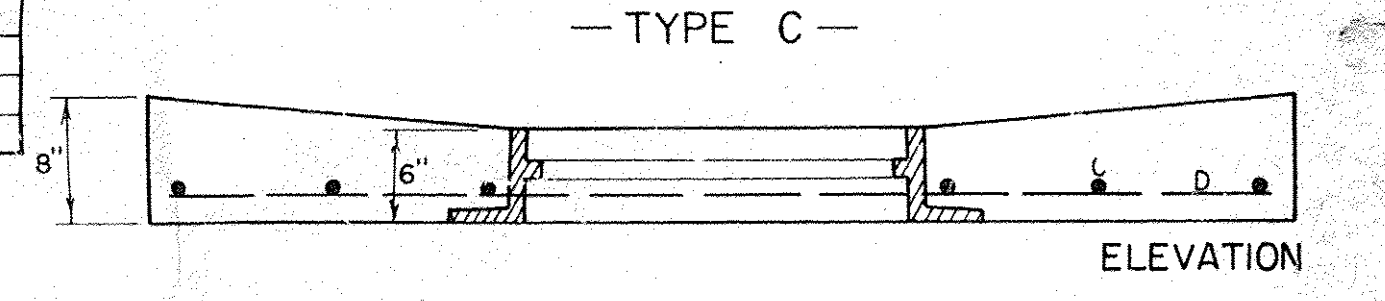
FOR 2nd 42" PIPE DEDUCT 0.36 CY. OR 0.18 FOR 1 PIPE

FOR 2nd 48" PIPE DEDUCT 0.47 CY. OR 0.24 FOR 1 PIPE

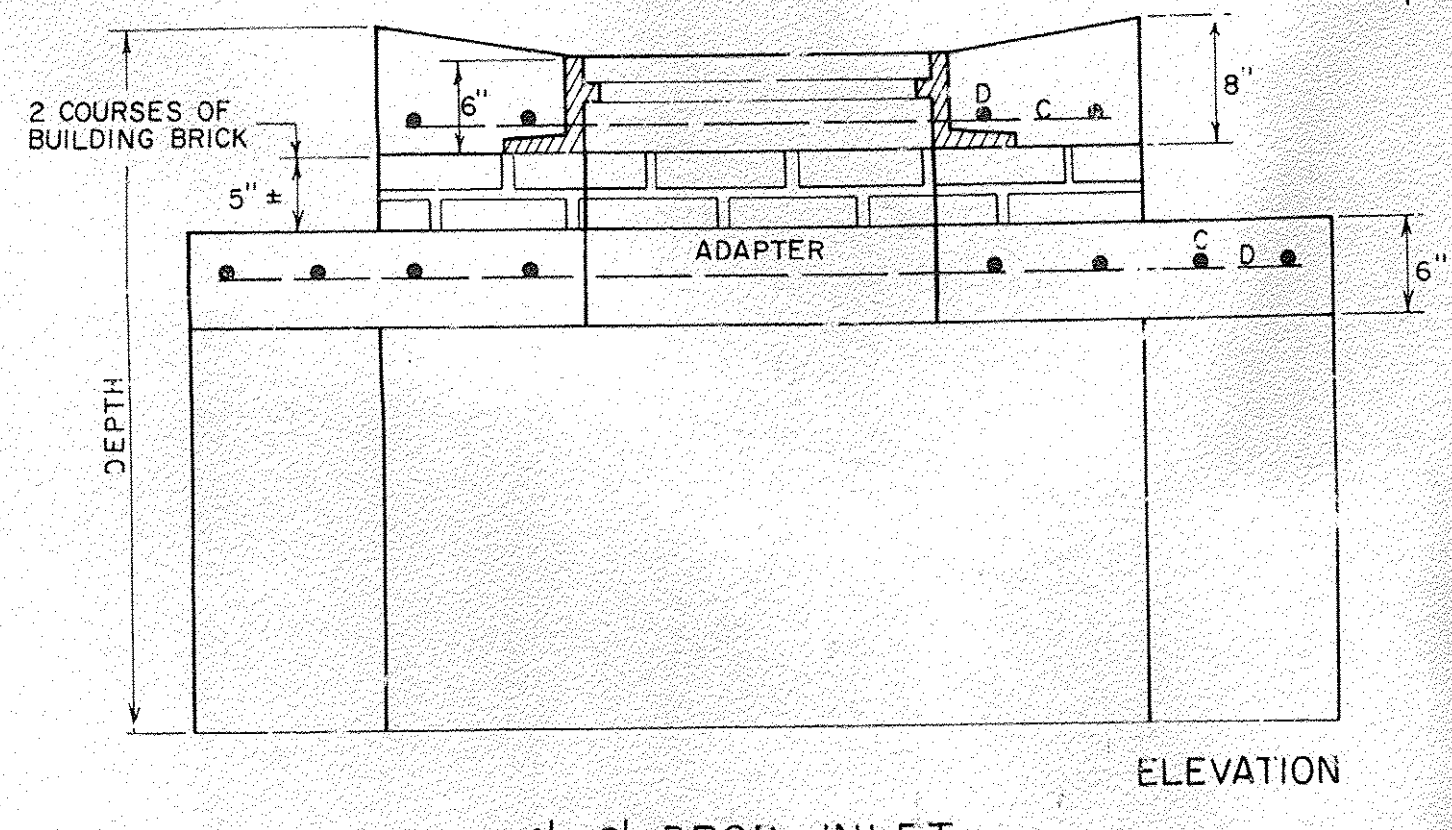


4'x6' DROP INLET TOP WITH TWO CAST IRON GRATES

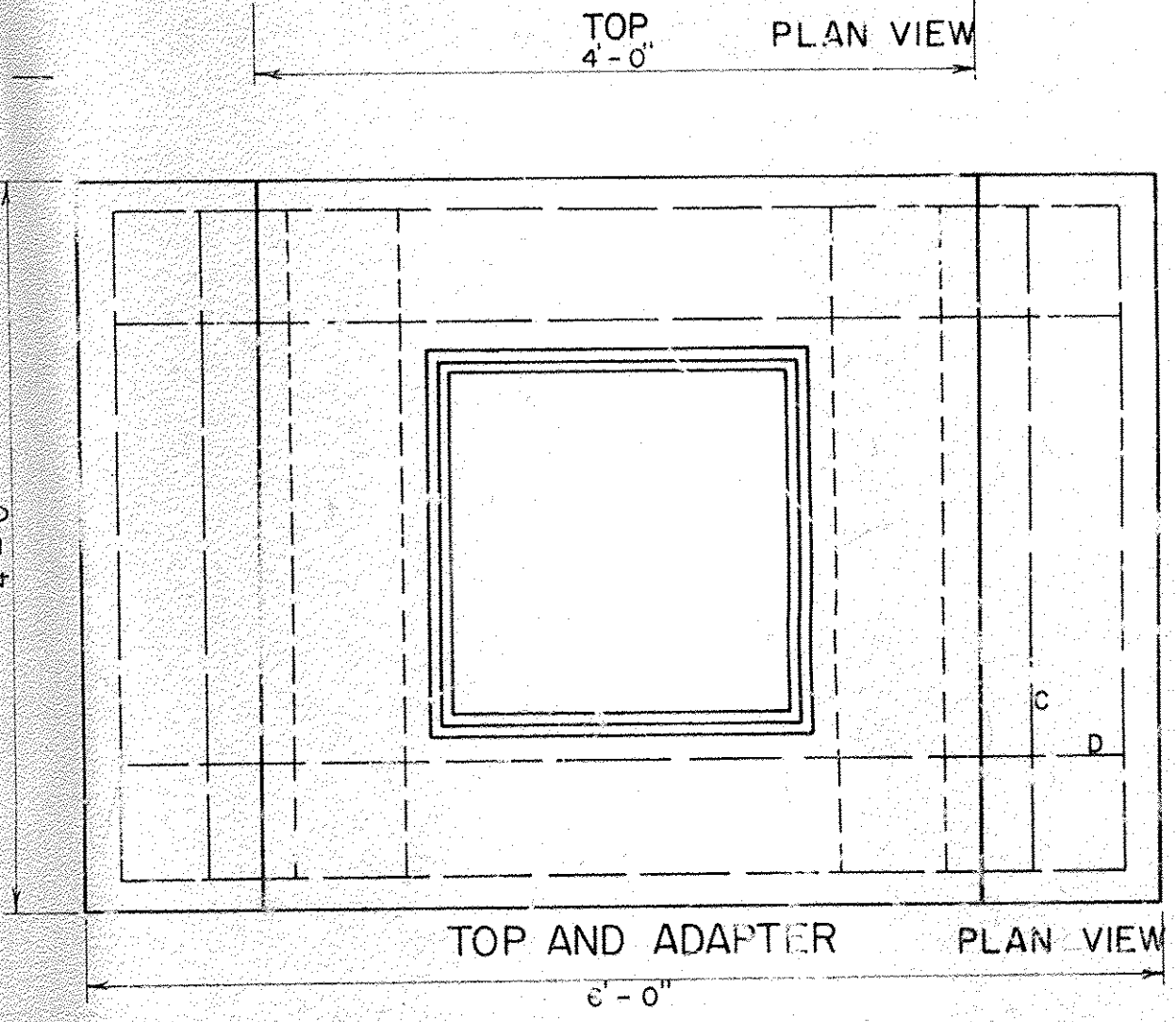
STEEL AND CONCRETE QUANTITIES				
4'x6' DROP INLET WITH ONE GRATE WITH 4'x4' TOP TYPE D				
DEPTH	30"		36"	
	CONCRETE C.Y.	STEEL LBS.	CONCRETE C.Y.	STEEL LBS.
5'-0"	3.2	313	3.1	313
5'-6"	3.5	322	3.4	322
6'-0"	3.8	358	3.7	358
6'-6"	4.1	382	4.0	382
7'-0"	4.4	413	4.3	418
7'-6"	4.7	427	4.6	427
8'-0"	5.0	463	4.9	463



4'x6' DROP INLET TOP WITH ONE CAST IRON GRATE



4'x6' DROP INLET WITH 4'x4' TOP TOP WITH ONE CAST IRON GRATE



TOP AND ADAPTER PLAN VIEW

REVISIONS AND CORRECTIONS
APR. 2, 1973—ORIGINAL D-6 REDRAWN.

APPROVED
April 4, 1973
DATE

R.H. Arnold
CHIEF ENGINEER

E.H. Steiner by P.
ASST. CHIEF ENGINEER

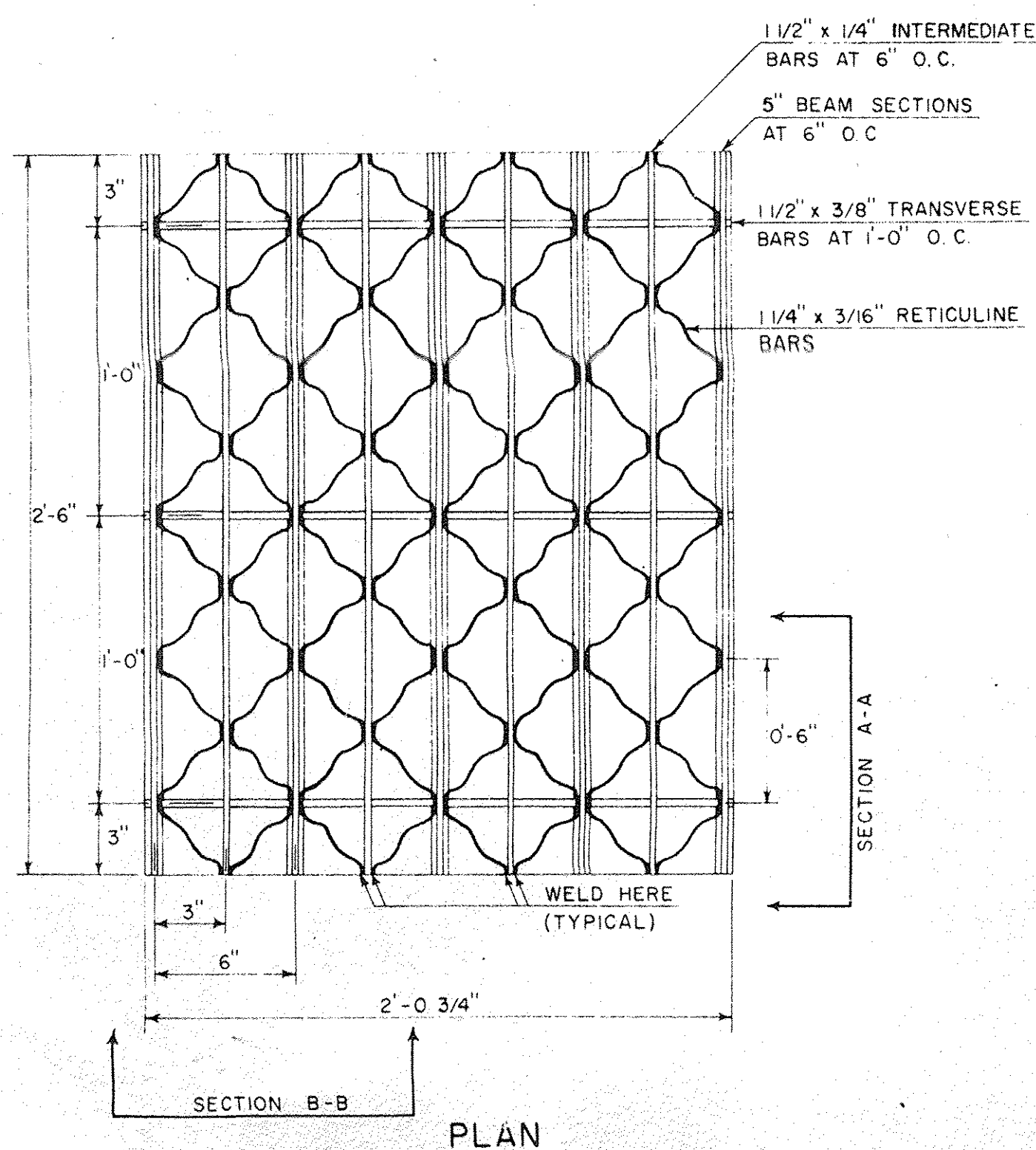
W.M. Low
HIGHWAY ENGINEER

REINFORCED CONCRETE DROP INLET WITH GRATE FOR USE IN DITCHES

VERMONT
DEPARTMENT
OF HIGHWAYS
STANDARD

D-6

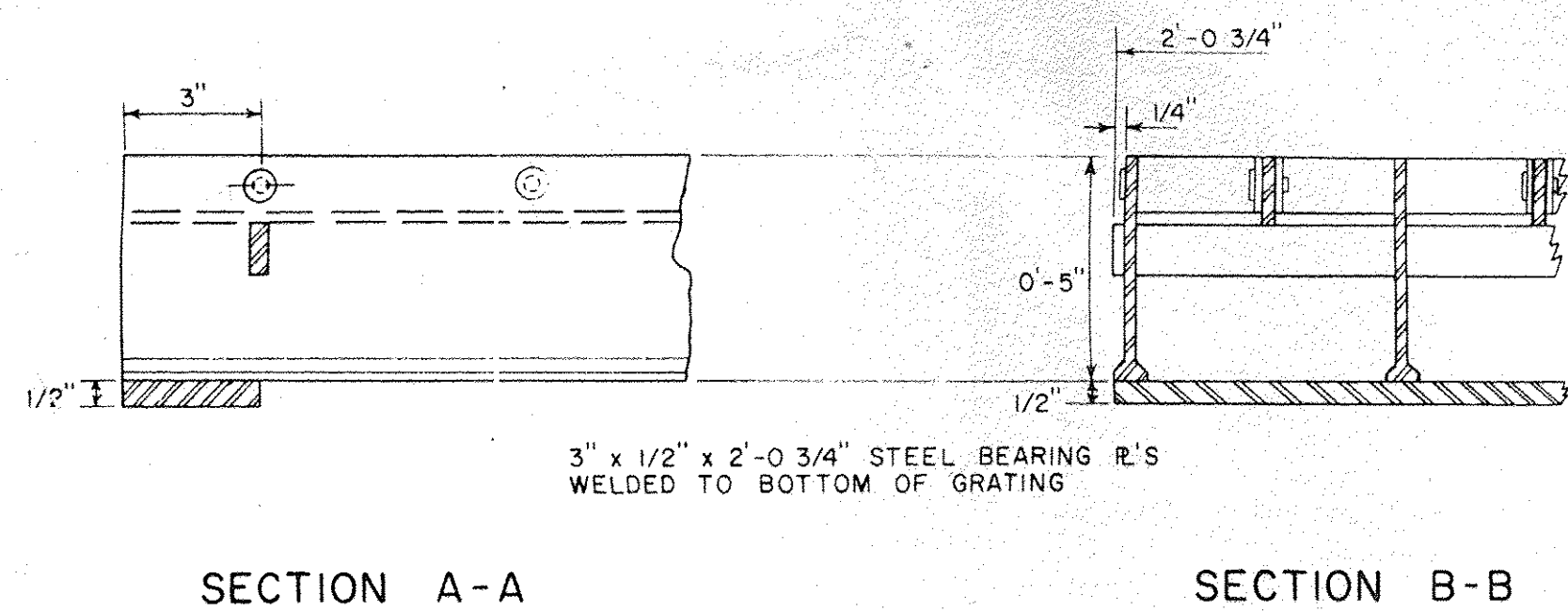
STEEL GRATE



GRATE SIZE SINGLE 24 3/4" x 30"
DOUBLE 24 3/4" x 54"

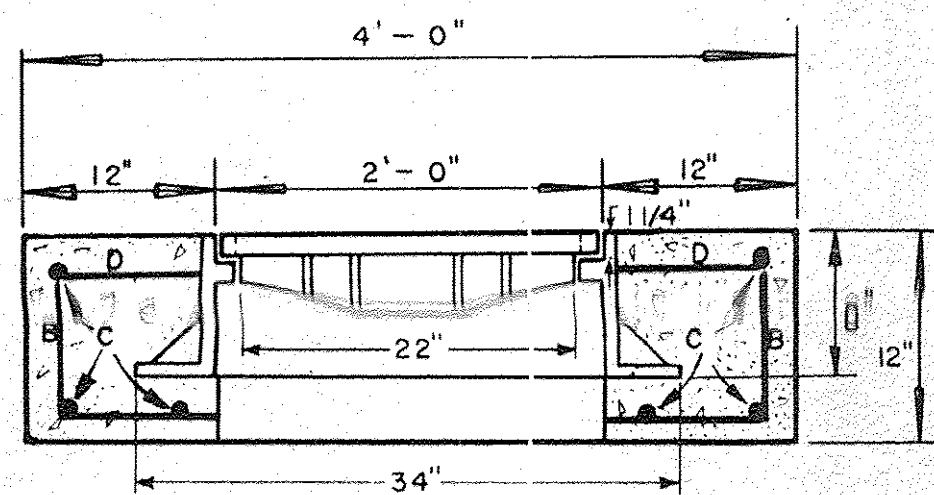
WEIGHT 95 LBS OR MORE
GRATES SHALL BE CAPABLE OF SUPPORTING H-20 (32,000 LB AXLE LOAD) INCLUDING 30% IMPACT.

UNIT STRESSES (LBS PER SQ. IN.)	18,000	20,000
MAIN BAR PARALLEL TO TRAFFIC H-20	49'	53'
MAIN BAR PERPENDICULAR TO TRAFFIC H-20	39'	42'



CAST IRON COVER WITH FRAME

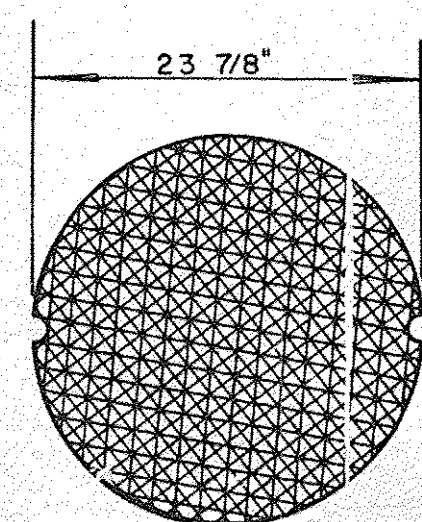
BAR	NO.	LENGTH	SHAPE
B	4	3'-8"	STRAIGHT
C	6	3'-8"	STRAIGHT
D	4	3'-8"	STRAIGHT



ELEVATION

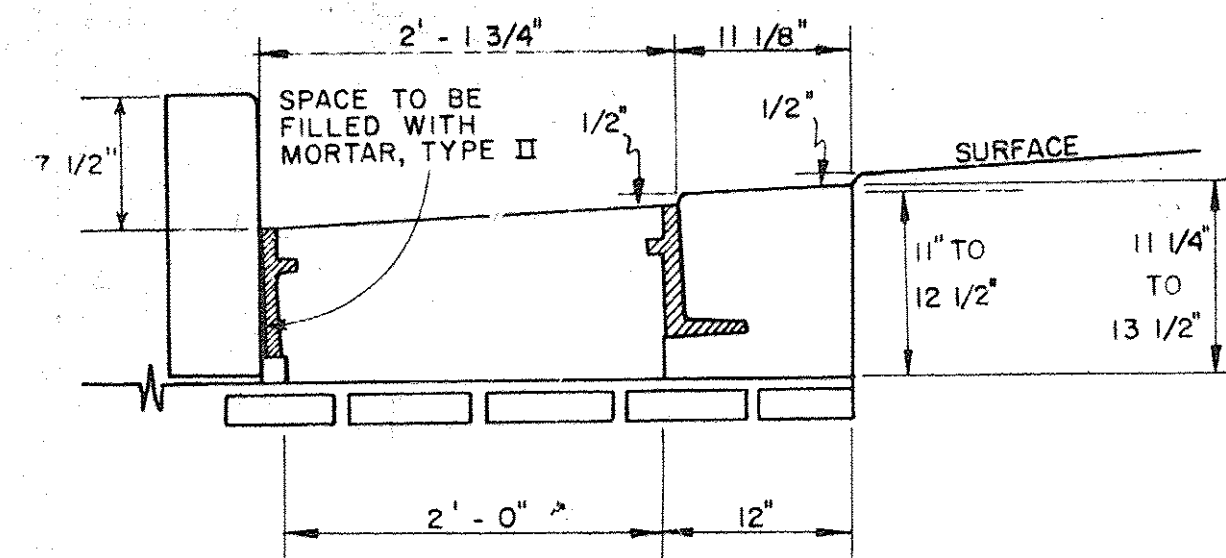
ALL REINFORCING STEEL TO BE NO. 5 DEFORMED BARS

GENERAL NOTES:
WEIGHT OF FRAME AND COVER = 425 LBS.



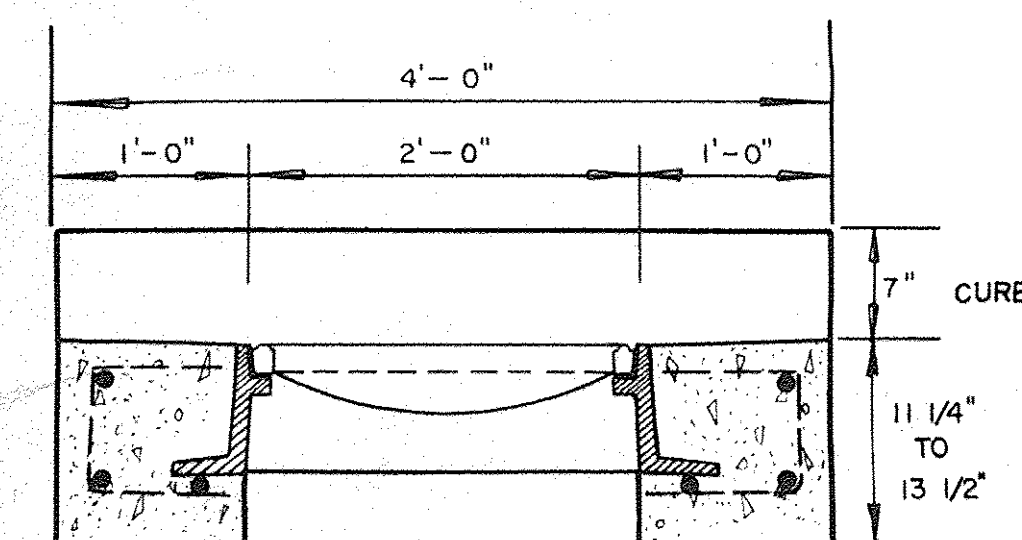
PLAN

CAST IRON GRATE WITH FRAME



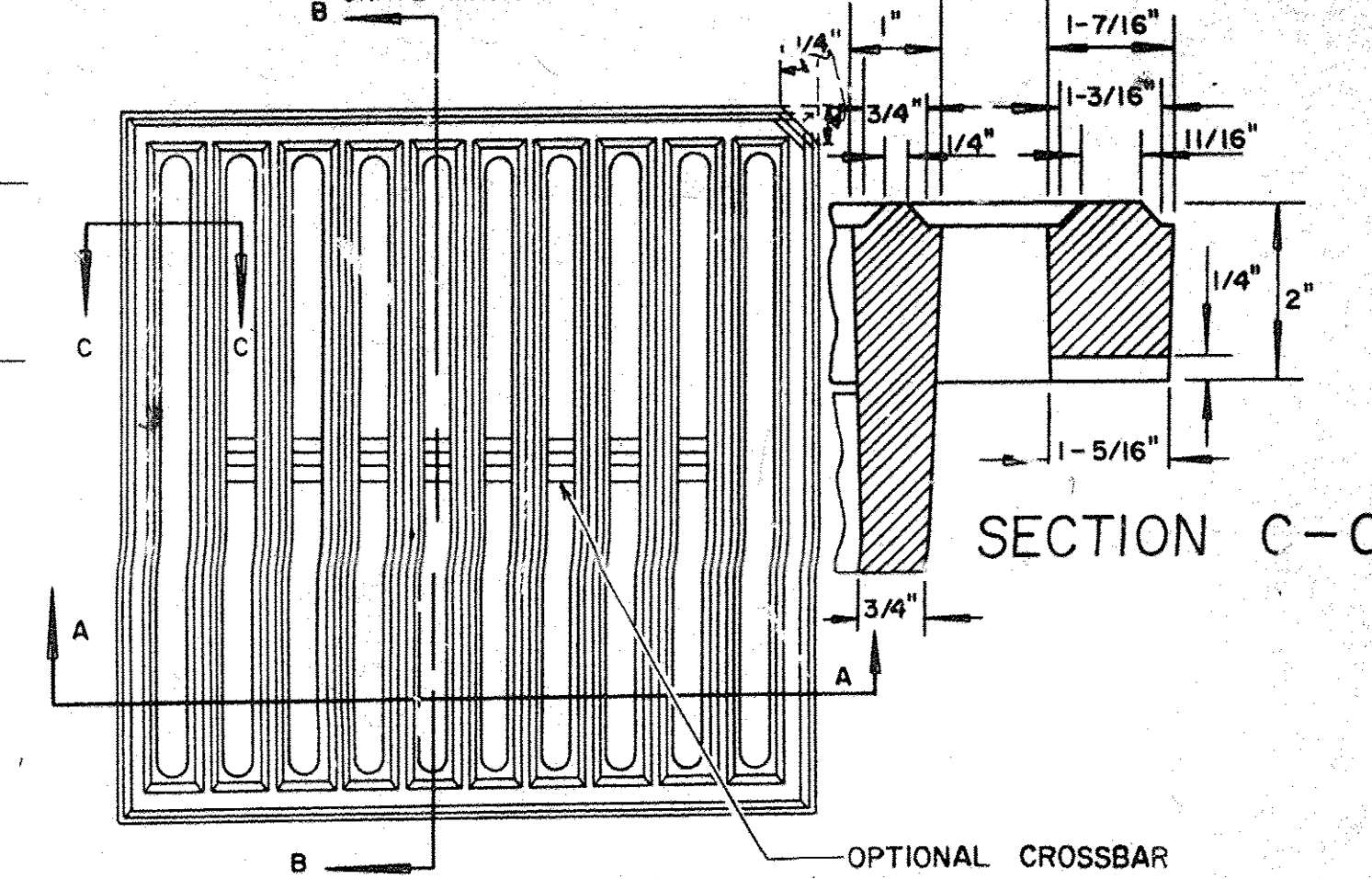
ELEVATION OF REINFORCED CONCRETE DROP INLET WITH VERTICAL GRANITE CURB AND 3 FLANGE CAST IRON FRAME FOR CAST IRON GRATE.

SEE STANDARD D-9 FOR CONCRETE VOLUME, REINFORCING STEEL SCHEDULE AND CURB JOINT DETAIL.

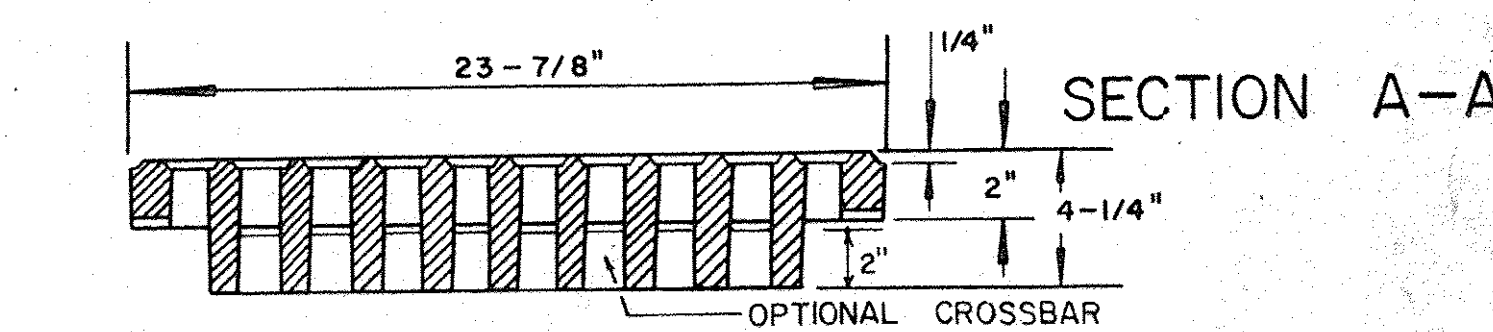


ELEVATION

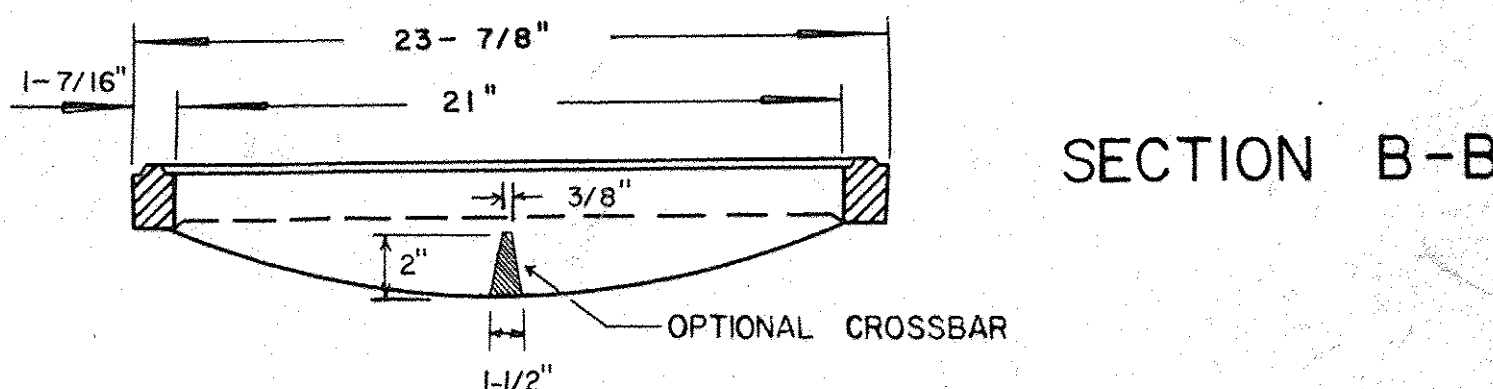
SUBSTITUTION OF CUT CORNER ON GRATE MAY BE MADE.



PLAN



SECTION A-A

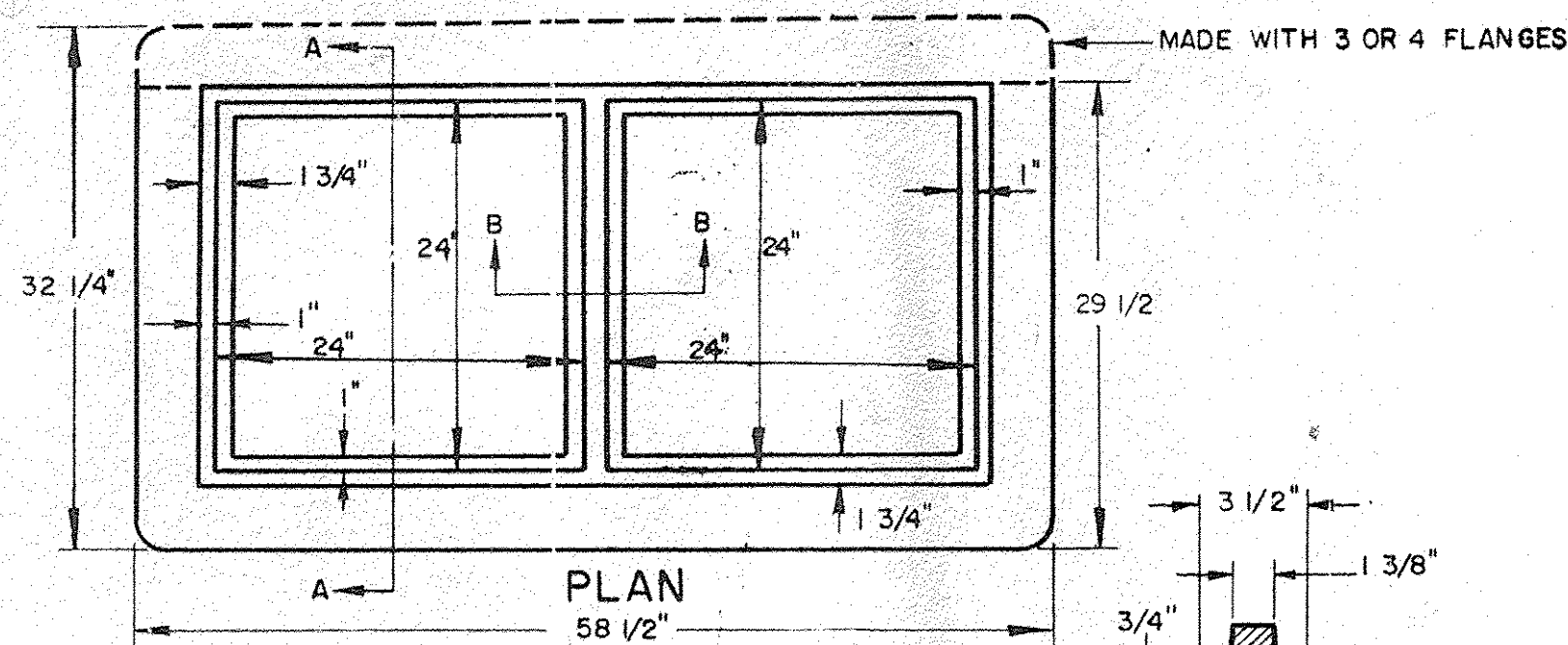


SECTION B-B

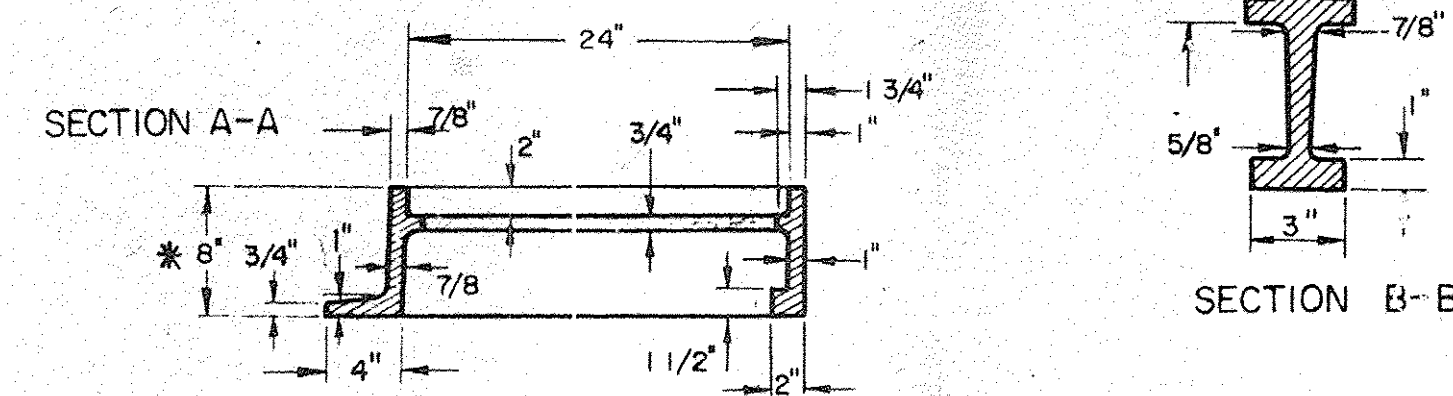
WEIGHT OF 3 FLANGED FRAME AND GRATE
GRATE 220 LBS
FRAME 260 LBS
TOTAL 480 LBS

CAST IRON GRATE, TYPE A

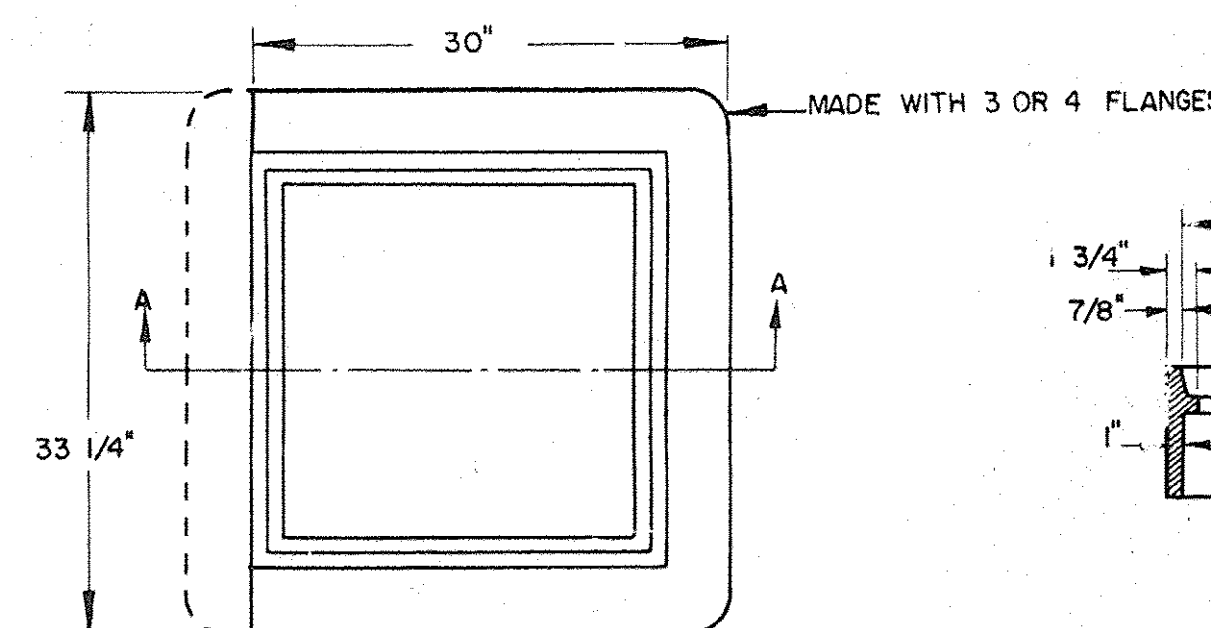
USE OF THE TYPE A GRATE IS PROHIBITED WHERE BICYCLE TRAFFIC IS EXPECTED.



PLAN



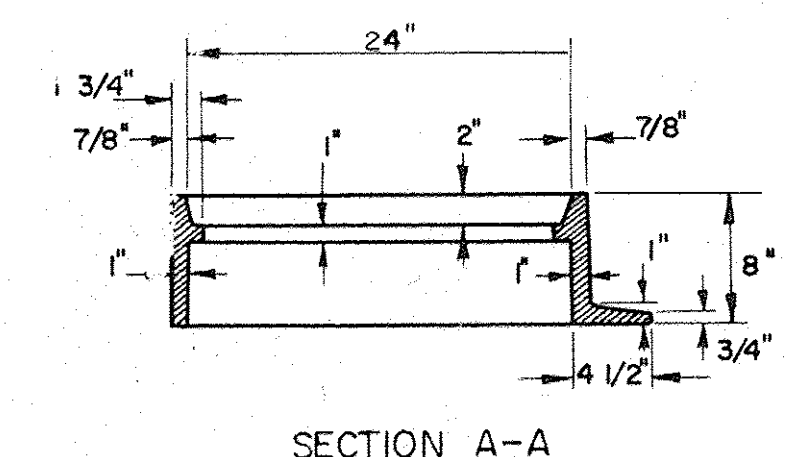
RECTANGULAR CAST IRON FRAME FOR TWO 24" SQUARE CAST IRON GRATES



PLAN

SQUARE CAST IRON FRAME FOR CAST IRON GRATE TYPE A

* NOTE: FRAME DEPTH TO BE "6" WHEN USED IN CONJUNCTION WITH DROP INLET DETAILED ON STANDARD D-6.



SECTION A-A

THIS FRAME TO BE PLACED IN DROP INLET TOP BEFORE CONCRETE IS POURED.
4 FLANGES UNLESS OTHERWISE INDICATED.
FRAMES TO BE FURNISHED WITH 3 FLANGES WHEN USED IN CONJUNCTION WITH CURB OR AS DIRECTED BY THE ENGINEER.

REVISIONS AND CORRECTIONS

APRIL 25, 1972 CAST IRON COVER CHANGED FROM SQUARE TO CIRCULAR
SEPT. 4, 1980 OPTIONAL CROSSBAR ADDED TO 'A' GRATE;
NOTE ADDED TO 'A' GRATE FRAME DETAIL.
AUG 24, 1981 NOTE ADDED RESTRICTING USE OF TYPE A GRATE.

APPROVED

DATE Dec 6, 1971

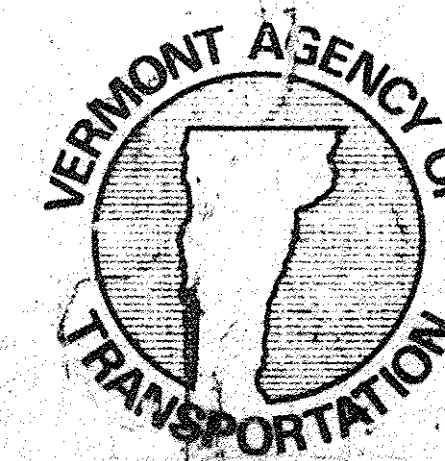
R. W. Arnold
CHIEF ENGINEER

E. H. Stinchey
ASS. CHIEF ENGINEER

G. M. Lane
HIGHWAY ENGINEER

DRAWN: G. A. J.
TRACED: A. J. A.

STEEL GRATE
CAST IRON GRATE TYPE A
CAST IRON COVER



STANDARD
D-11