

STATE OF VERMONT
AGENCY OF TRANSPORTATION

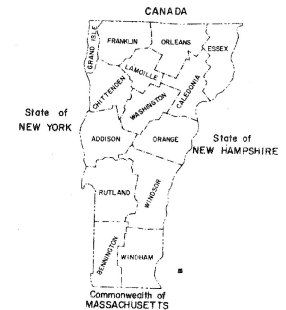


TERMINAL BUILDING
RUTLAND STATE AIRPORT
CLARENDON, VERMONT
AIR 23-2024

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

CONTRACT PLANS

THESE PLANS DO NOT REFLECT
CHANGES MADE ON THE PROJECT.



Dated FEB 12 1988
Simpson Construction, Inc.
Contractor
Signature
Earl M. Simpson, Jr.
President
THE
Transportation Secretary's Signature

SYMBOLS

DIMENSION TO TOP, FOS, OR CL	BRICK
MAJOR SECTIONS THROUGH TLDS	SLATE
LARGE SCALE DETAILS & SECTIONS (IN DETAIL BOOK)	STONE
MATERIAL IN A RELATED PLANE	STEEL REINFORCING
INTERIOR ELEVATIONS	STEEL CROSS SECTION
DIAMETER	PLYWOOD
EARTH	WOOD FRAMING CROSS SECTION - CONTINUOUS
SAND OR GRI	WOOD FRAMING CROSS SECTION - DISCONTINUOUS
GRAVEL	FINISH WOOD CROSS SECTION
CRUSHED STONE	FINISH WOOD FACE GRAIN
CONCRETE	FIBERGLASS INSULATION
CEMENT MASONRY UNIT	RIGID INSULATION

ABBREVIATIONS

AB	ANCHOR BOLT	HORIZ	HORIZONTAL
BLDG	BUILDING	INSUL	INSULATION
BTW	BETWEEN	LB	LAS 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	PL	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	7/8" WAY	STD	STANDARD
EXT	EXTERIOR	TLC	TOP OF CURB
FGO	FLOOR CLEAN OUT	T & G	TONGUE AND GROOVE
FD	FLOOR DRAIN	TYP	TYPICAL
FTN	FOUNDATION	VERT	VERTICAL
FXC	FIRE EXTINGUISHER CABINET	VB	VAPOR BARRIER
FOF	FACE OF FOUNDATION	W	WITH
FOS	FACE OF STUD	WO	WOOD
GWB	GYPSON WALL BOARD	FF	FINISH FLOOR
HDCP	HANDICAPPED		

INDEX TO DRAWINGS

1 OF 19	T-1 TITLE SHEET
	SITE DRAWINGS
2 "	S-1 SITE PLAN & LANDSCAPING
	ARCHITECTURAL
3 "	A-1 FOUNDATION PLAN
4 "	A-2 FIRST FLOOR PLAN
5 "	A-2REF FIRST FLOOR REFERENCE PLAN
6 "	A-3 MEZZAINE PLAN
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11 "	SF-1 MEZZAINE FRAMING
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14	E-1 EQUIPMENT ELEVATIONS & MEZZAINE ELECTRICAL PLAN
15	E-2 FIRST FLOOR ELECTRICAL PLAN & PLAN LAYOUT
	MECHANICAL
16 "	H-1 HEATING PLAN & DETAILS
17 "	P-1 PLUMBING PLAN & DETAILS
	STANDARD SITE DETAILS
18 "	STANDARD D6 (APRIL 4, 1976)
19 "	STANDARD D11 (AUGUST 24, 1981R)

*FOR LARGE SCALE DETAILS SEE "DETAIL BOOK"

AIR 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 NR 23-2024	
SHEET 1 OF 19 SHEETS	

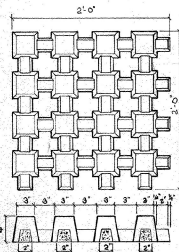
GRANITE CURBING TO MATCH EXISTING

TYPE 'A' PAVER PLAN



- TYPE 'A' TO BE SET IN A HERRINGBONE PATTERN, ALL OUTSIDE EDGES @ GRASS & TYPE 'B' PAVERS ARE TO BE EDGED WITH PRESSURE TREATED (LP-22) 4"x4"s. SPIKE 4"x4"S INTO GROUND WITH 1/2"x2"x2" STAINLESS STEEL RODS @ 6'-0" O.C. SET 4"x4"S FLUSH WITH TOP OF PAVERS.
- TYPE 'A' TO BE SET ON 2" OF COMPACTED SAND ON 18" OF COMPACTED GRAVEL.
- NUMBERS INDICATE STARTING SEQUENCE.

TYPE 'B' PAYER



TYPE 'B' PAVER
UNIT PLAN
BUTT UNITS CONTINUOUSLY PER LOCATION AS INDICATED ON SITE PLAN.

TYPE 'B' PAVER
SECTION

TYPE 'B' TO BE SET ON 2" OF COMPACTED SAND ON 18" OF COMPACTED GRAVEL. FILL VOIDS IN PAVES 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 PAVES. SEED AT SLIGHTLY LESS THAN NORMAL RATE, AND MULCH. WHEN GRASS IS 2 1/2" HIGH, CUT TO 1 1/4".

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.

EXISTING
TERMINAL &
HANGAR
BUILDING.

BENCH MARK: USC
BRONZE DISK U-3
781.75 MSL.

BASE LINE E-W
ALIGNS WITH FACE
OF BLDG?

EX. ACCOUNT
12"φ

31-2

1000

MATCH
LINE

15

4,2

M.C.L.

2. 5. 0

1

—

100

WITH SITE
N

NO.

No

100

— 3 —

SITE LOCATION / PLAN $\| S_c \| = 20'0''$

BUILDING LOCATION, GRADES, SURFACE IMPROVEMENTS & DRAINAGE.
NOTE #1: SEE SITE UTILITIES PLAN (SU-1) ← 12" Ø BCCMP EX.

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

- ① AS BUILT RUTLAND STATE AIRPORT PARKING LOT EXTENSION DRAWINGS DATED 7-23-73, C.W. DAMICO, RESIDENT ENGINEER.
- ② DRAWINGS PREPARED BY DURESSNE 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.

KEY:



SITEWORK CONTRACT LIMITS
 EXIST TO CONTIGUOUS @ INTERIOR
 PROPOSED CONTOURS
 SANITARY SEWER
 WATER ENTRY
 ELECTRICAL ENTRY
 TYPE 'A' PAVERS
 TYPE 'B' PAVERS

FENCE - XF = EXISTING
 XF = REMOVED
 RF = RELOCATED
 GRANITE CURBING

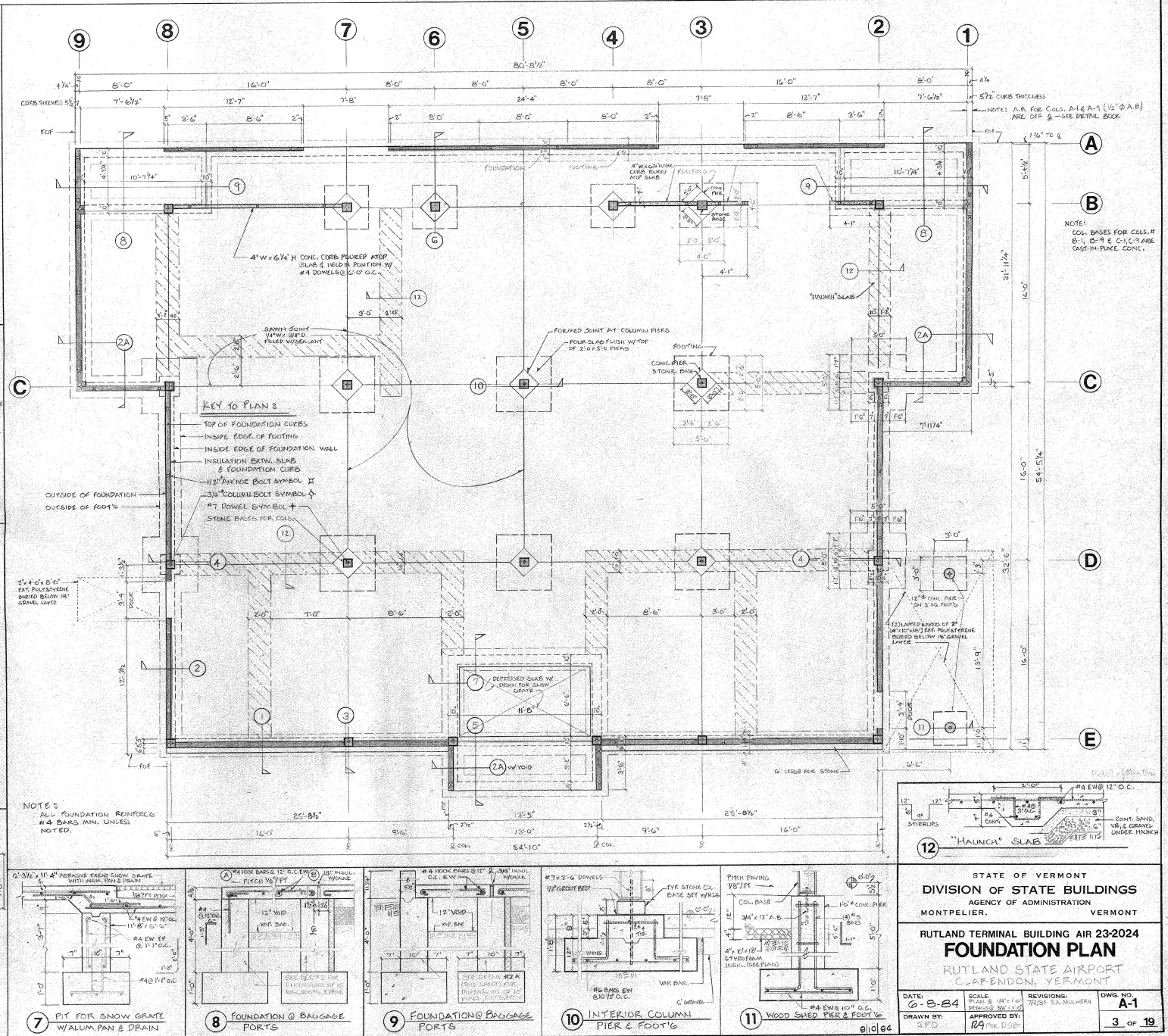
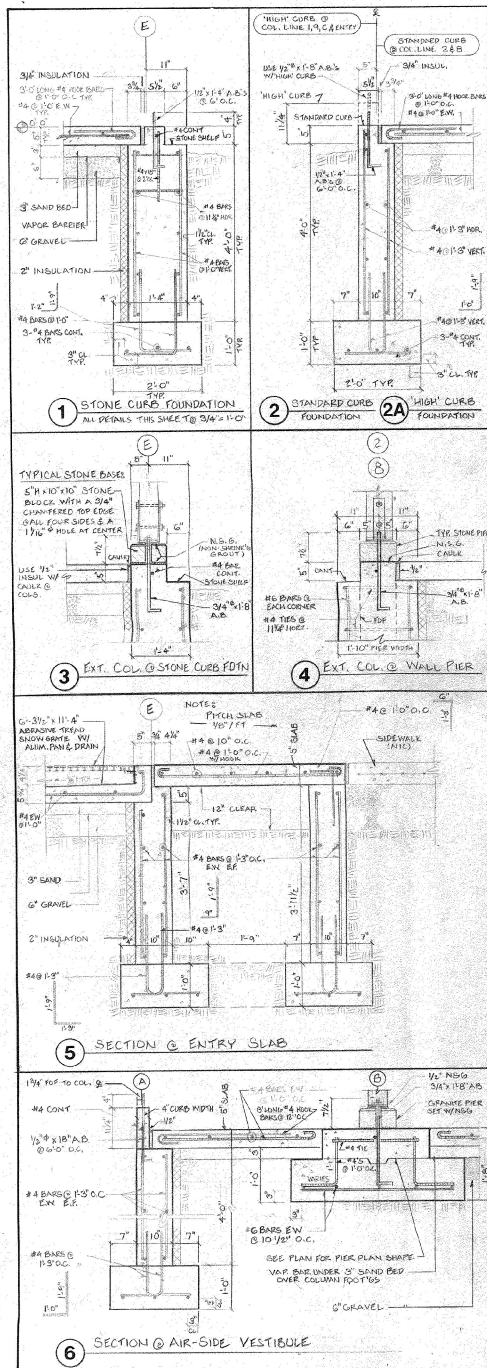
STATE OF VERMONT
DIVISION OF STATE BUILDINGS
AGENCY OF ADMINISTRATION

RUTLAND TERMINAL BUILDING AIR 23-2024
SITE PLAN & LANDSCAPING
RUTLAND STATE AIRPORT
CLARENDON, VERMONT

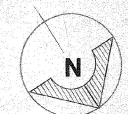
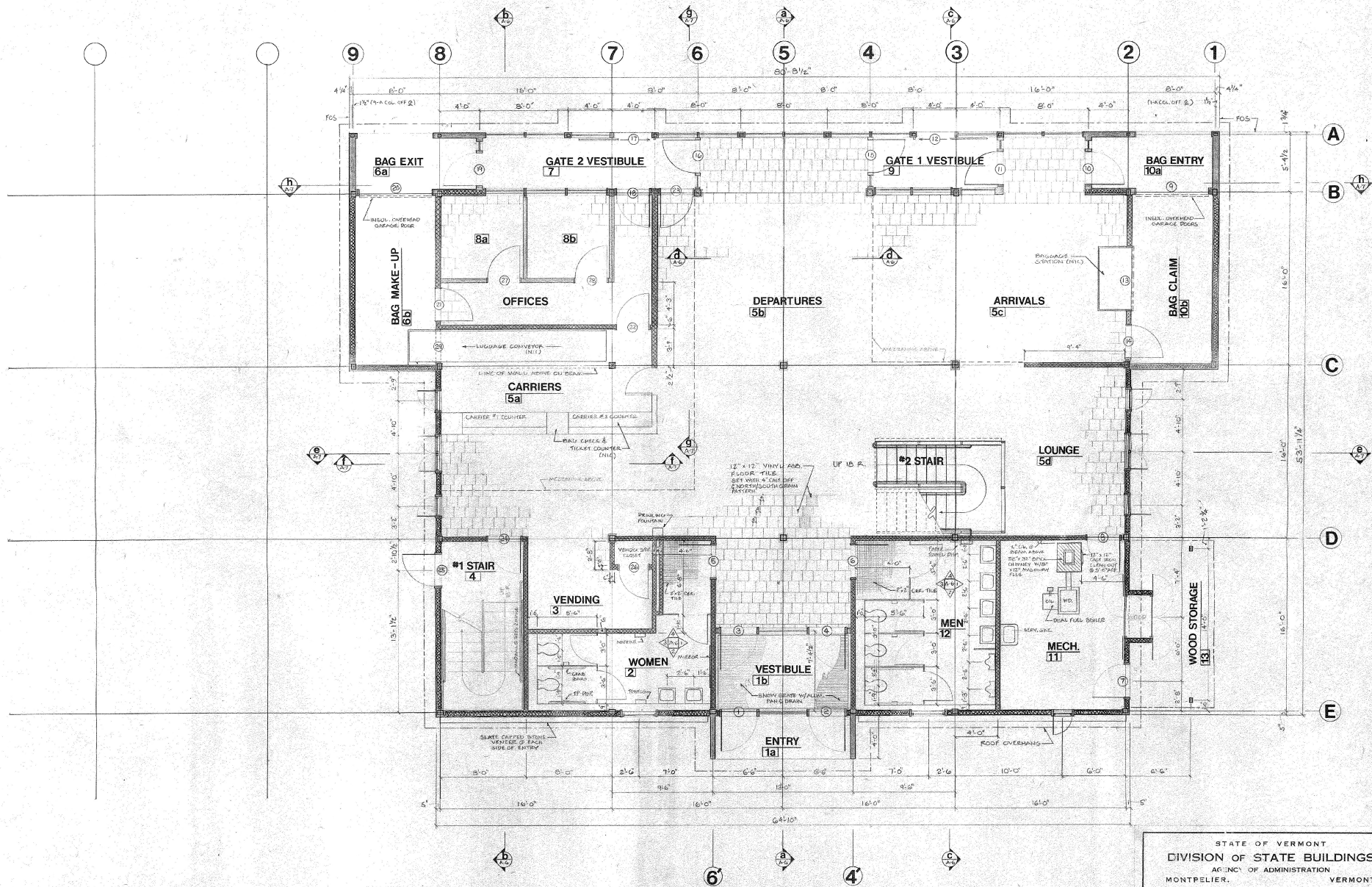
DATE: 6-8-84	SCALE: 1" = 20'-0"	REVISIONS: 6/29/84 S.A.MULHERN	DWG. NO. S-1
DRAWN BY:	APPROVED BY:	2 OF 19	

1A	1A FOR VSO	1A	1A
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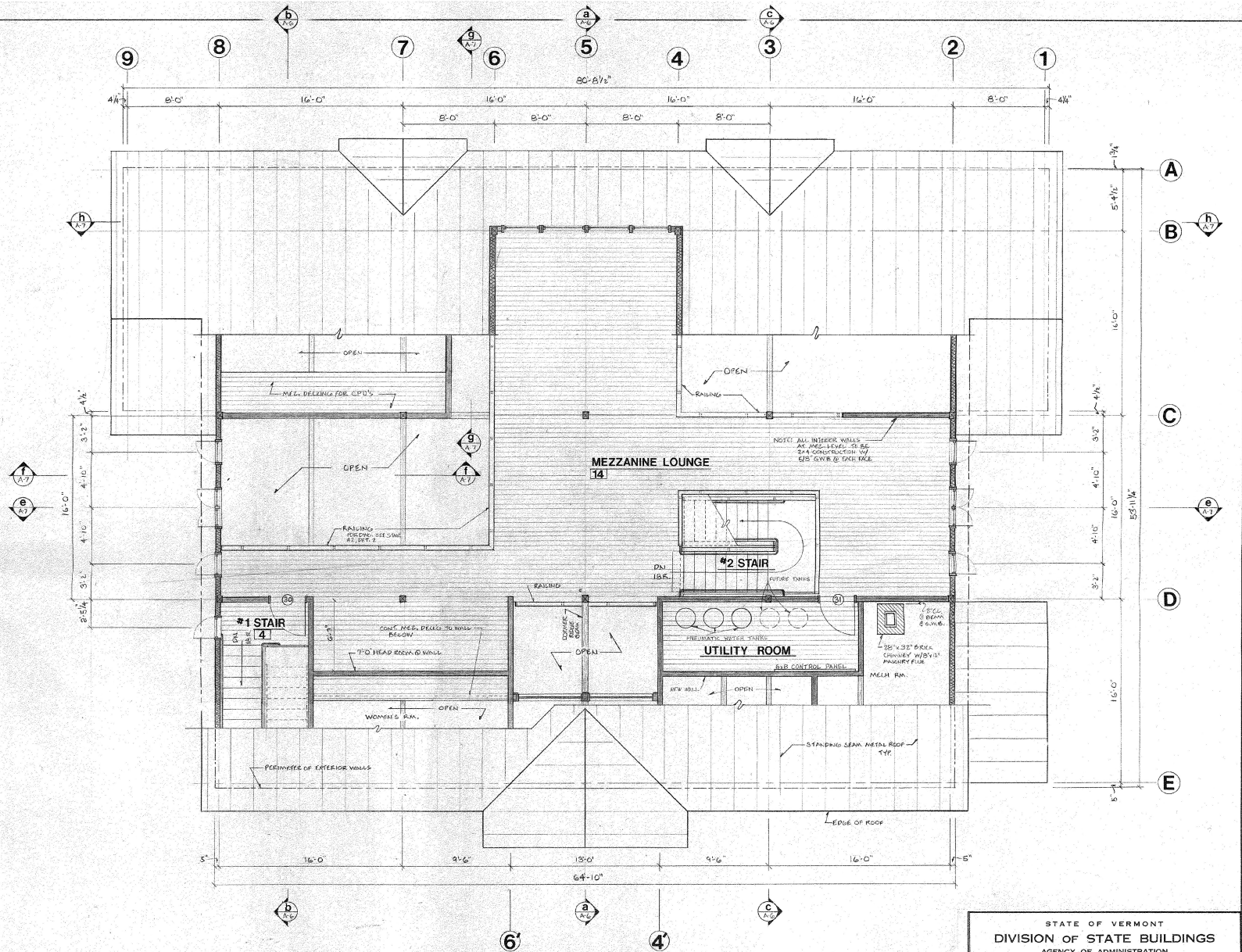
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STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-024 FOUNDATION PLAN RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6-8-84	SCALE: 1/8" = 1'-0"	REVISIONS: 7/2/85 SA, MURKIN	DWG. NO. A-1
DRAWN BY: SPD	APPROVED BY: 184 RLB		3 OF 19



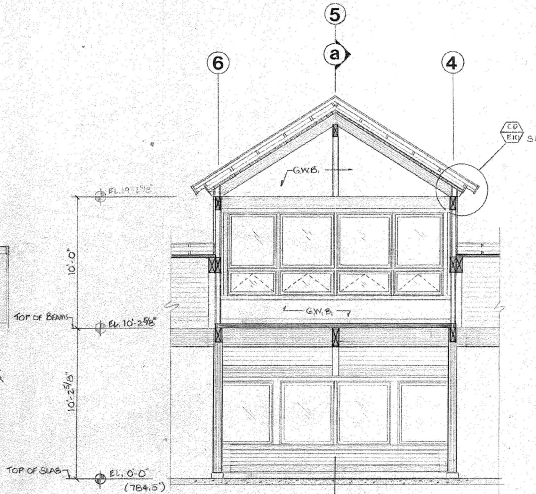
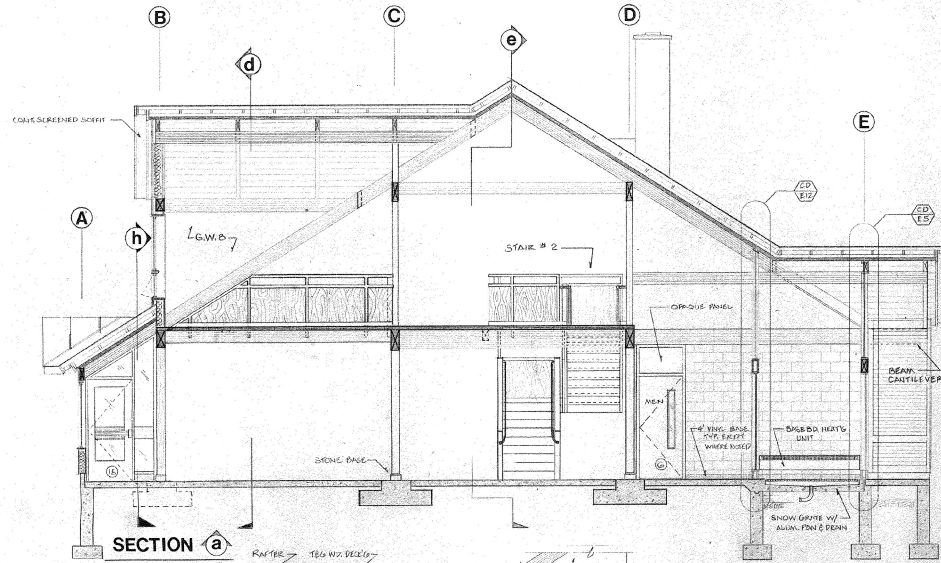
STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024 FIRST FLOOR PLAN RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6/8/24	SCALE: 1/8" = 1'-0"	REVISIONS: 1. INITIALS 2. DATE	DWG. NO. A-2
DRAWN BY: J.P.	APPROVED BY: D.A. FOR 0.58	4 OF 19	



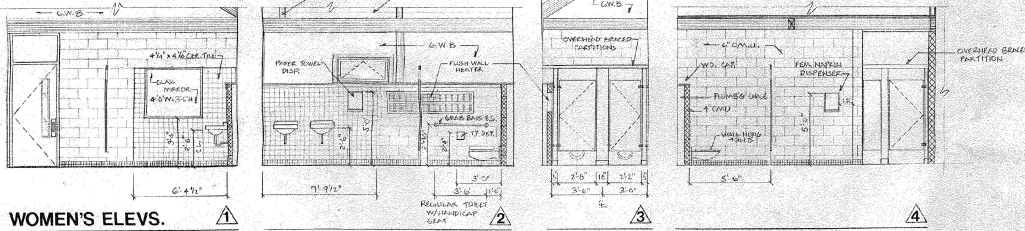
STATE OF VERMONT
DIVISION OF STATE BUILDINGS
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

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

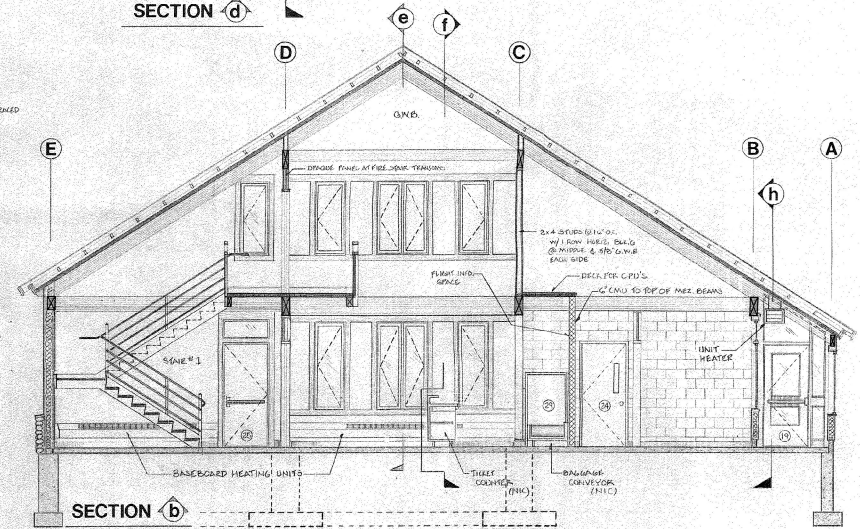
DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 6/27/84 S.A. MULHERRN	DWG. NO. A-3
DRAWN BY: JFO	APPROVED BY: B4 (P.E. D.S.B.)		6 OF 19



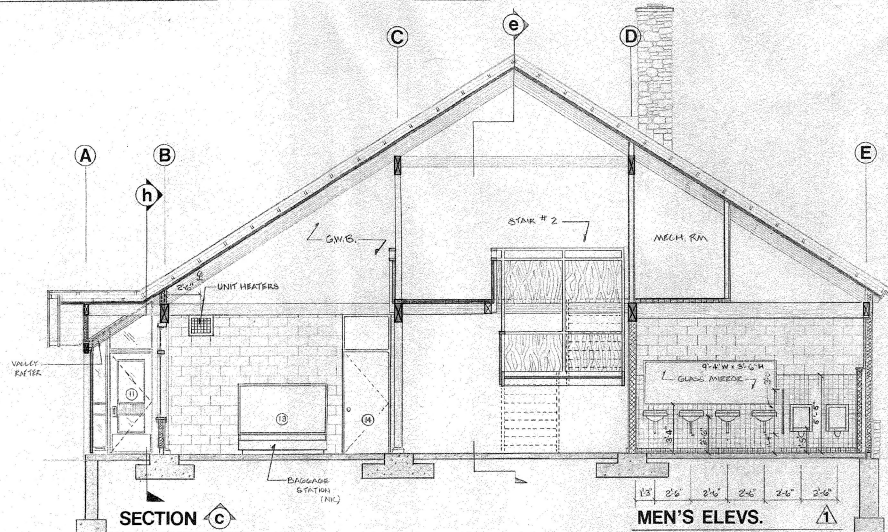
SECTION d



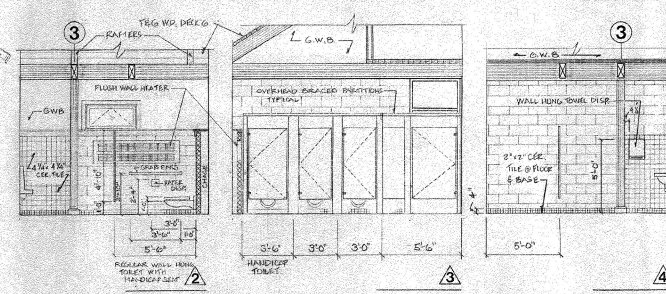
WOMEN'S ELEV.



SECTION b



SECTION c

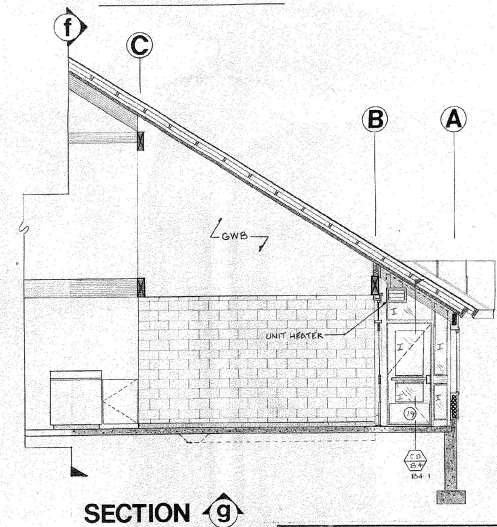
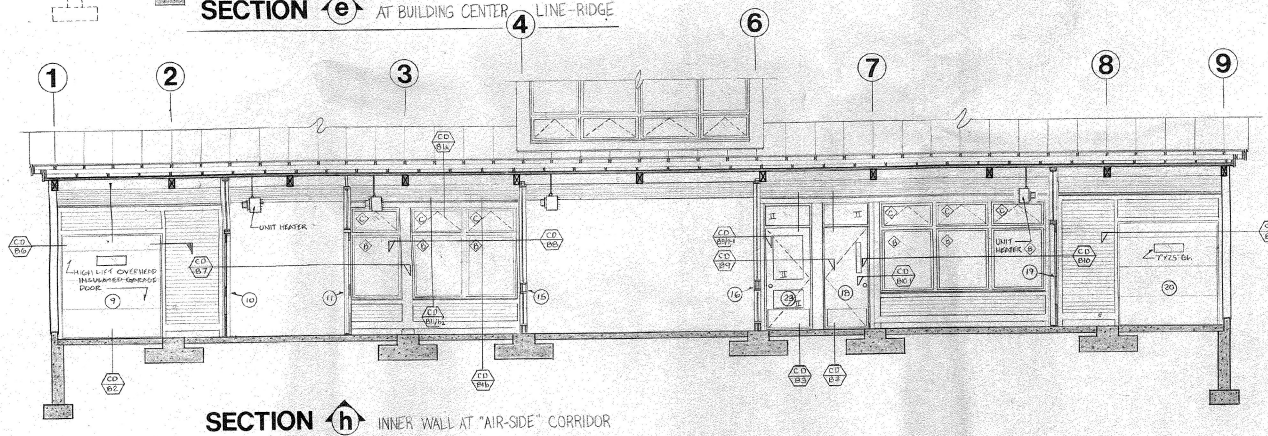
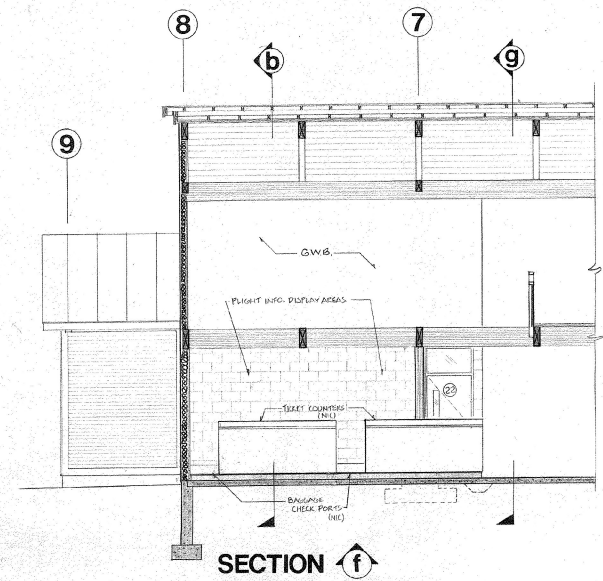
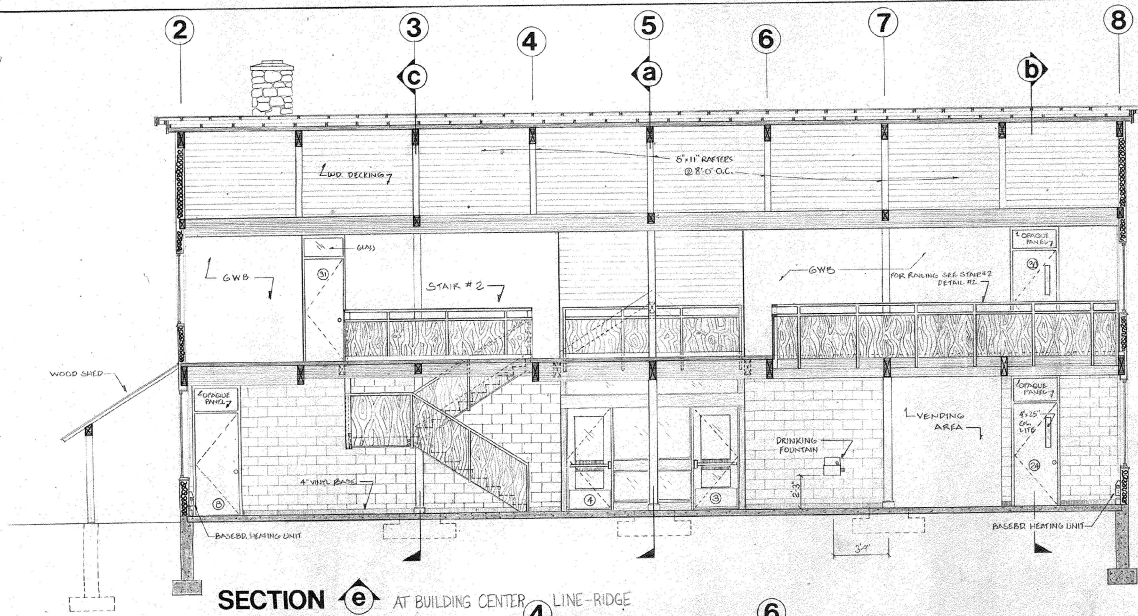


MEN'S ELEV.

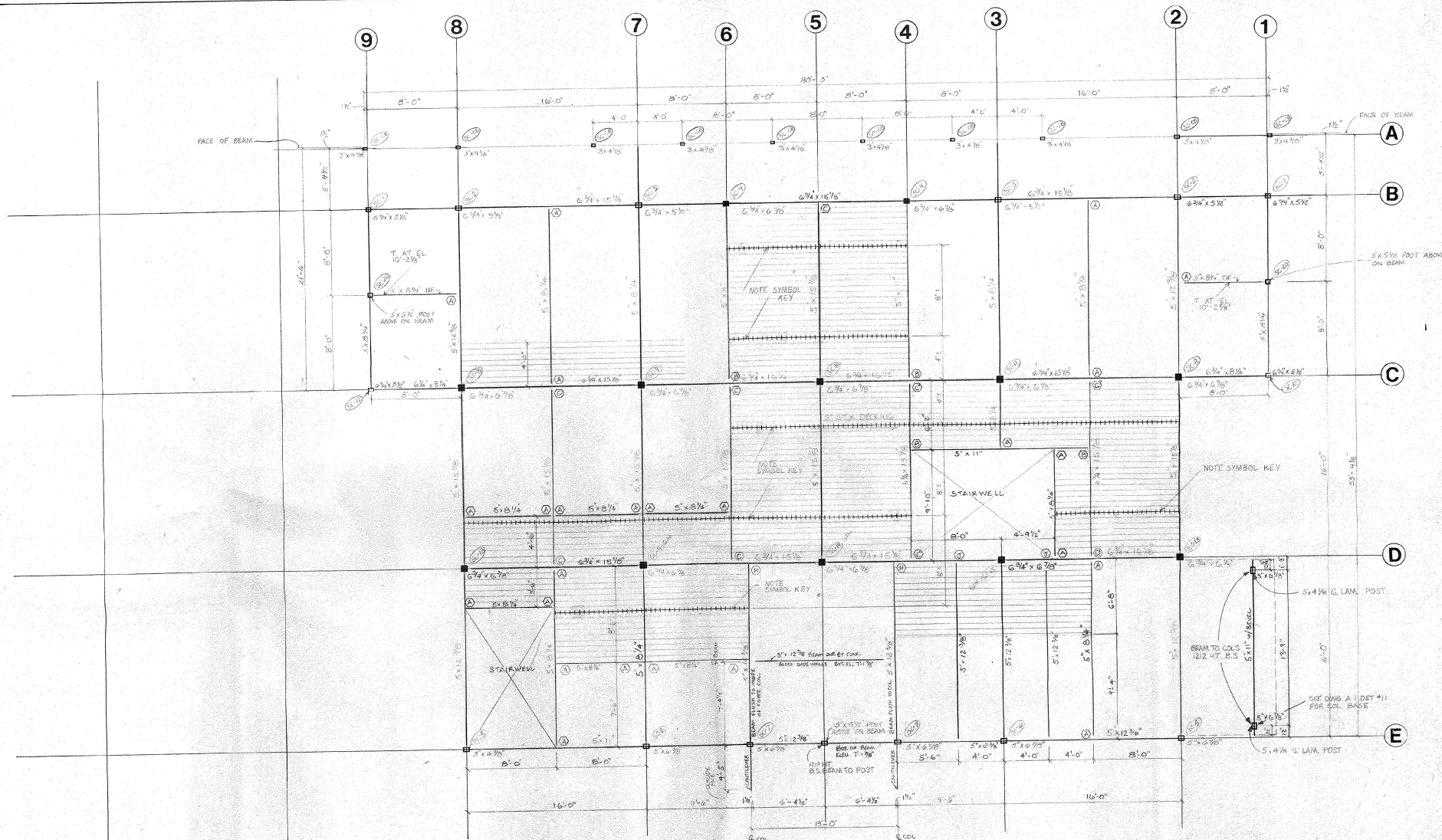
STATE OF VERMONT
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AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

RUTLAND TERMINAL BUILDING AIR 23/2024
SECTIONS/INT. ELEV.
RUTLAND STATE AIRPORT
CLARENDON, VERMONT

DATE: 6-8-84	SCALE: 1/8" = 1'-0"	REVISIONS:	DWG. NO. A-6
DRAWN BY: SPO	APPROVED BY: RJA		9 OF 19



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: 6/21/84 SAMUELHER	DWG. NO. A-7
DRAWN BY: JFC	APPROVED BY: NA	FOR DDP	10 OF 19



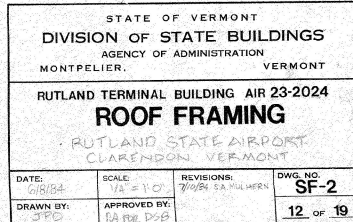
NOTE: 1. TOP OF ALL BEAMS AT 10'-2 3/8" EXCEPT AS NOTED AT ENTRANCE (13'-0" SPAN)
 * FOR CONNECTIONS (C-1) ETC. SEE STRUCTURAL CONNECTION DETAIL DWGS. SERIES SC-1 TO SC-21, SC-22, SCHEDULE OF BEAM TO BEAM CONNECTION FOR (A) (B) (C) ETC. DESIGNATED
 * 2 STANDARD CORRECTIONS 16" 1212 HT. BBL, HST 1212, 1212L, 1212L, ETC. AS INDICATED BY THE SIMPSON CO. - STRONG-TIE

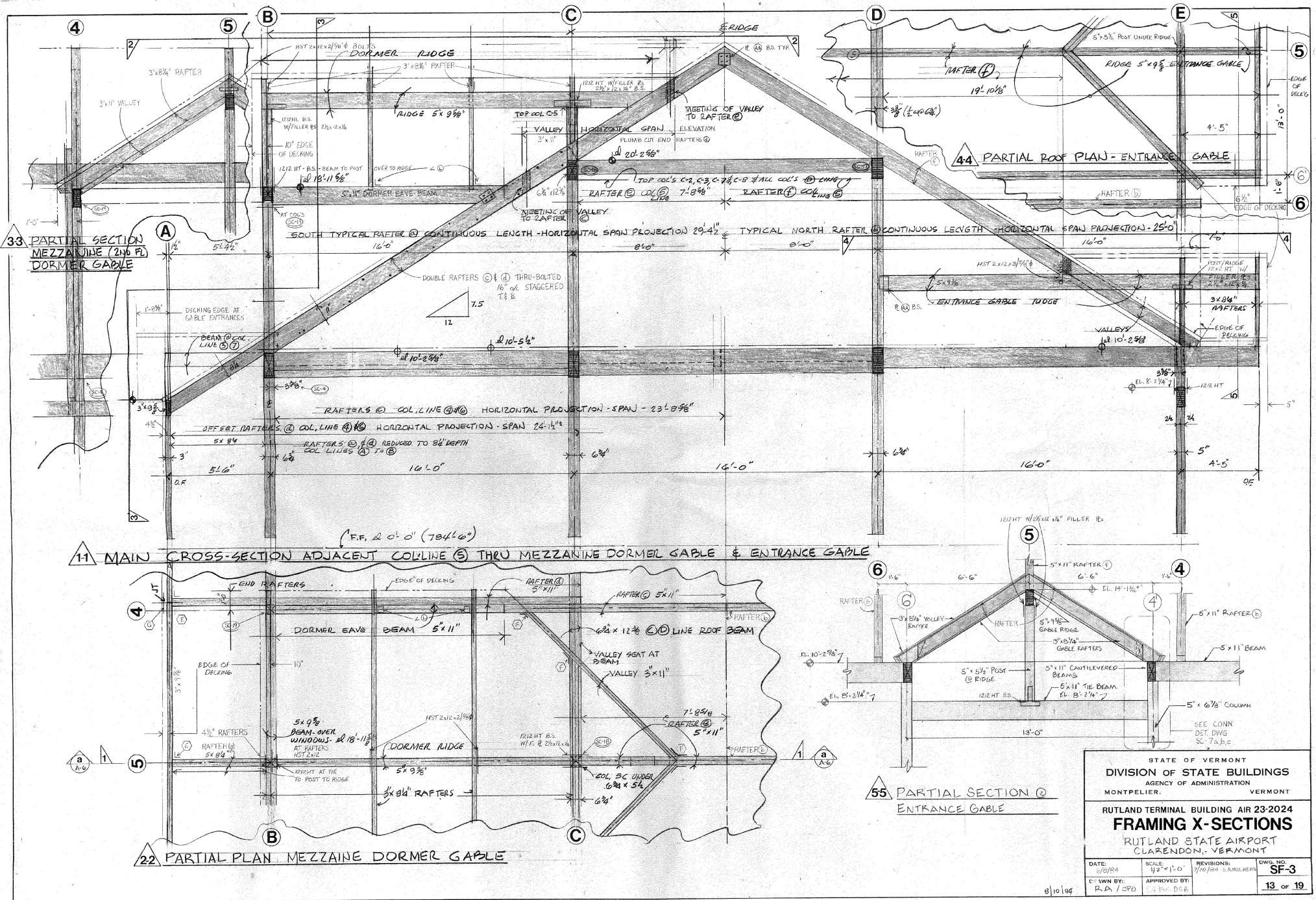
KEY

- C & C COLUMN STOPS BENEATH BEAM
- COLUMN CONTINUES
- FIRST COLUMN DIMENSION
- SECOND COLUMN DIMENSION
- ROUT OUT AT UNDER SIDE (DECK SOFFIT) 3/4" DEEP 1/2" AT E 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: 7/24/84, 8/1/84, 8/1/84	DWG. NO. SF-1
DRAWN BY: JTC	APPROVED BY: R. F. F. S.	11 OF 19	

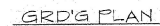
6/10/84





STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024 FRAMING X-SECTIONS RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 5/6/24	SCALE: 1/2" = 1'-0"	REVISIONS: 1/10/24 S. SAMUELS	DWG. NO. SF-3
DESIGNED BY: R.A. / SFD	APPROVED BY: [Signature]	13 OF 19	

2	MOUNTED SINGLE-LAMP FLUOR. METAL BOX SHIELD, BRONZE FIN.	1-47
11	SAME AS "1", BUT WITH LO-TEMP BALLASTS	2-47
J	SIMILAR TO "1", BUT 8 FT LONG	2-47
K	WALL-MOUNTED SINGLE-LAMP FLUOR. OPAL ACRYLIC WRAP-AROUND DIFF'R	1-47
L	EXTERIOR INCAHO, WALL BRACKET, 4 IN. DIA., BRONZE FIN.	A19
M	INCAHO, PENDANT 6-IN. CYLINDER BRONZE FIN.	PAR 136
M1	SAME AS "M"	R-3
N	INCAHO, SURFACE 5-IN. CYLINDER BRONZE FIN.	R-3 75H
	FLUORESCENT SINGLE-LAMP VANDAL PROOF, FOLT CAR LENS	F40
O1	SAME AS "O" BUT WITH LO-TEMP BALLAST	



Branch circuit concealed in ceiling or wall, 2 No. 12 wires in floor unless otherwise noted. Hook marks indicate number of wires above or below.

Branch circuit as above concealed in floor or ground.

Branch circuit as above exposed.

Auxiliary circuit (3 = telephone, 5 = sound,&c.)

Home run to panelboard or cabinet (No. of arrows = No. circuits).

Fluorescent light fixture, ceiling mounted, with circuit number inside of type designation.

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. FC = FUSE CONTROL

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, 20, 30 ampere type, 1 & 1/2" U.S. 10/30. **GROUNDING W/ BONDING HEATED**

Duplex outlet as shown, **SELF ILLUMINATED**

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). **400V, U.S. 11**

Wall switch, double-pole.

Wall switch, three-way (4 = 4-way).

Door, swing as noted.

Handswitch, power.

Handswitch or lead control, lighting.

Telephone cabinet.

Electric Motor with HP noted.

Emergency 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 (1 = intercom, 5 = 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.

TOTAL PROVIDED BY MISHA.

CELLS PAN, CONTRACTOR PROVIDED

TYPE & Q2, HUNTER 22272/22289

TYPE & Q2, HUNTER 22270/22289

COMPLETE W/WORKING DRAWINGS

COMPLETE W/WORKING DRAWINGS



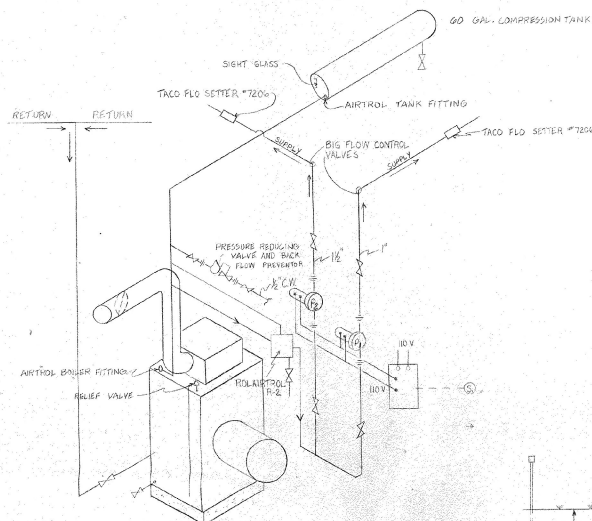
CEILING FAN, CONTRACTOR PROVIDED
 TYPE 'A' 52", HUNTER 22272/22300
 TYPE 'B' 38", HUNTER 22270/22600
 COMPLETE W/ VARIABLE SPEED CONTROL

DATE: JUNE 21, 1984	SCALE: AS NOTED	REVISIONS:	DWG. NO. E-1
DRAWN BY:	APPROVED BY: B. R. D. S.		14 of 19

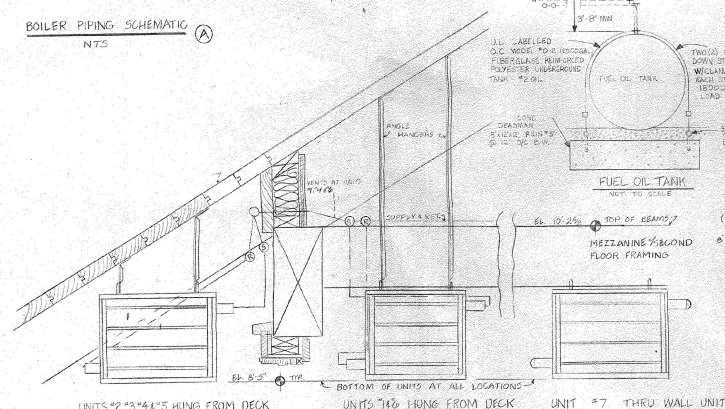
9/10/94

Wakefield Ward & Associates, Ltd.
Consulting Electrical Engineer

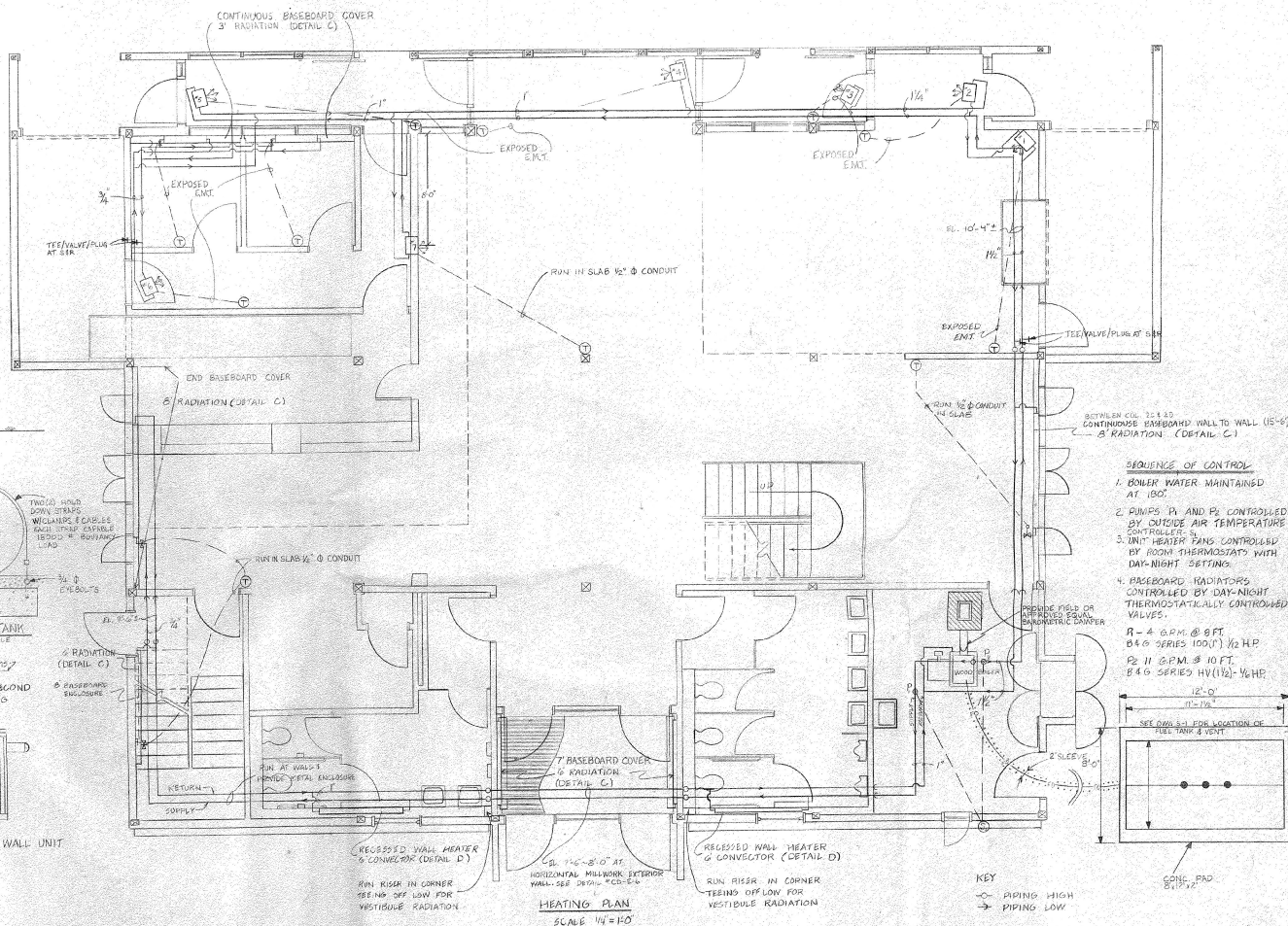
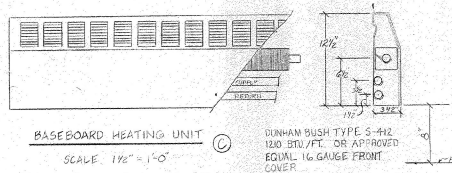
WHS 208/120 MAIN BKR -										VOLTS 208/120										FEED: BOTTOM TOP									
FUSE ONLY										MINS SURFACE FLUSH										MINS SURFACE FLUSH									
NEUTRAL ON										BKR TYPE 'G'										BKR TYPE 'G'									
BKR A.I.C. OK										BKR A.I.C. OK										BKR A.I.C. OK									
LOAD VOLT-AMPERES										LOAD VOLT-AMPERES										LOAD VOLT-AMPERES									
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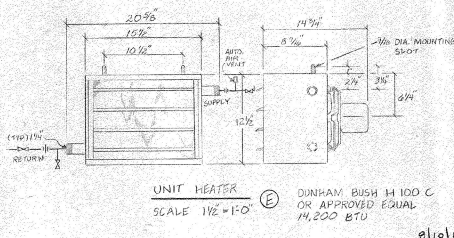
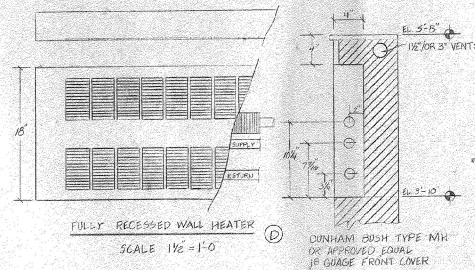
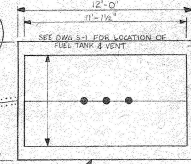
BOILER PIPING SCHEMATIC
NTS



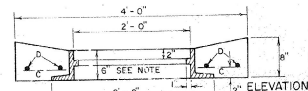
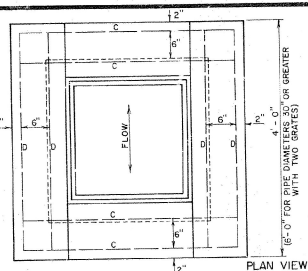
HEATING DETAIL
SCALE 1/8\"/>



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



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: 2/8/54	SCALE: AS NOTED	REVISIONS: NONE	DWG. NO. H-1
DRAWN BY: R. TETREULT	APPROVED BY: J. A. FOR D.S.B.	16 OF 19	



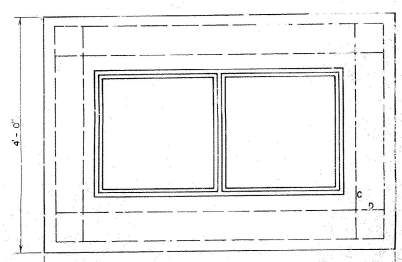
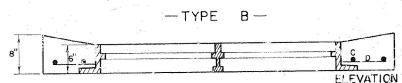
STEEL SCHEDULE											
4x4 DROP INLET TYPE A						4x6 DROP INLET WITH TWO GRATES TYPE B					
12' 15' 18' 24'						30' 36'					
DEPTH	G	LENGTH	H	LENGTH	C, D	LENGTH	G	LENGTH	H	LENGTH	J
3'-0"	15	2'-3"	22	3'-8"	8	3'-0"	15	2'-3"	22	3'-8"	8
3'-6"	15	2'-9"	22	3'-8"	8	3'-6"	15	2'-9"	22	3'-8"	8
4'-0"	15	3'-3"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

STEEL AND CONCRETE QUANTITIES											
4x4 DROP INLET						4x6 DROP INLET WITH TWO GRATES					
12' 15' 18' 24'						30' 36'					
DEPTH	CONCRETE	STEEL	CONCRETE	STEEL	CONCRETE	DEPTH	CONCRETE	STEEL	CONCRETE	STEEL	CONCRETE
3'-0"	1.7	150	1.7	150	1.7	3'-0"	1.7	150	1.7	150	1.7
3'-6"	1.9	158	1.9	158	1.9	3'-6"	1.9	158	1.9	158	1.9
4'-0"	2.1	193	2.1	193	2.1	4'-0"	2.1	193	2.1	193	2.1
4'-6"	2.3	200	2.3	200	2.3	4'-6"	2.3	200	2.3	200	2.3
5'-0"	2.5	231	2.5	231	2.5	5'-0"	2.5	231	2.5	231	2.5
5'-6"	2.8	239	2.8	239	2.8	5'-6"	2.8	239	2.8	239	2.8
6'-0"	3.0	270	3.0	270	3.0	6'-0"	3.0	270	3.0	270	3.0
6'-6"	3.2	278	3.2	278	3.2	6'-6"	3.2	278	3.2	278	3.2
7'-0"	3.5	308	3.5	308	3.5	7'-0"	3.5	308	3.5	308	3.5
7'-6"	3.7	316	3.7	316	3.7	7'-6"	3.7	316	3.7	316	3.7
8'-0"	3.9	347	3.9	347	3.9	8'-0"	3.9	347	3.9	347	3.9

FOR 30" 36" PIPE DEDUCT 0.18 CY. FOR 42" 48" PIPE DEDUCT 0.36 CY. OR 0.18 FOR 1 PIPE
 FOR 24" 30" PIPE DEDUCT 0.26 CY. FOR 36" 42" PIPE DEDUCT 0.42 CY. OR 0.24 FOR 1 PIPE

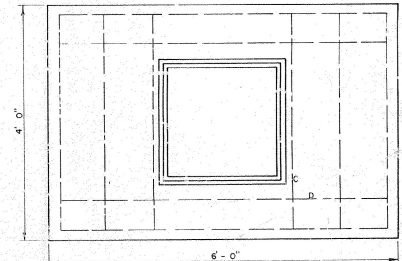
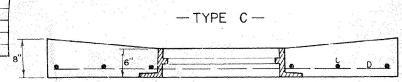
ALL REINFORCING STEEL TO BE NO. 5 DEFORMED BARS, EVENLY SPACED WITH A MAXIMUM SPACING OF 12" O.C.
 ALL STEEL TO HAVE 2 INCH MIN. COVER.
 DROP INLET TO BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL CONCRETE, SECTION 501.
 GRATES TO CONFORM TO DROP INLETS, CATCH BASINS, AND MANHOLES, SECTION 604.
 FURNISHING 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.

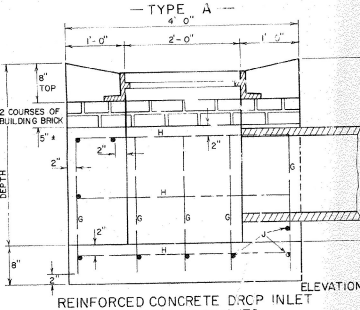
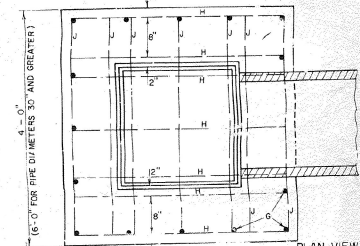


4'x6' DROP INLET TOP WITH TWO CAST IRON GRATES

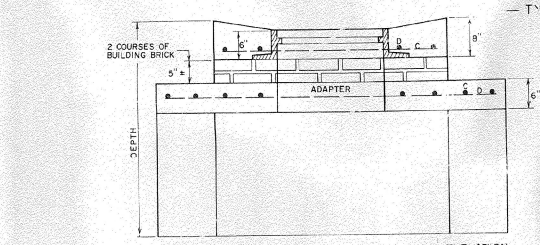
STEEL AND CONCRETE QUANTITIES					
4'x6' DROP INLET WITH ONE GRATE WITH 4'x4' TOP TYPE D					
30'					
DEPTH	CONCRETE	STEEL	CONCRETE	STEEL	CONCRETE
5'-0"	3.2	315	3.1	313	3.1
5'-6"	3.5	322	3.4	322	3.4
6'-0"	3.8	358	3.7	358	3.7
6'-6"	4.1	382	4.0	382	4.0
7'-0"	4.4	413	4.3	418	4.3
7'-6"	4.7	427	4.6	427	4.6
8'-0"	5.0	463	4.9	463	4.9



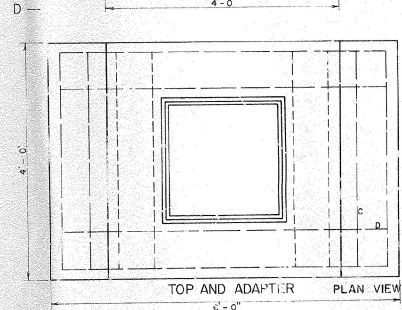
4'x6' DROP INLET TOP WITH ONE CAST IRON GRATE



REINFORCED CONCRETE DROP INLET FOR USE IN DITCHES



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

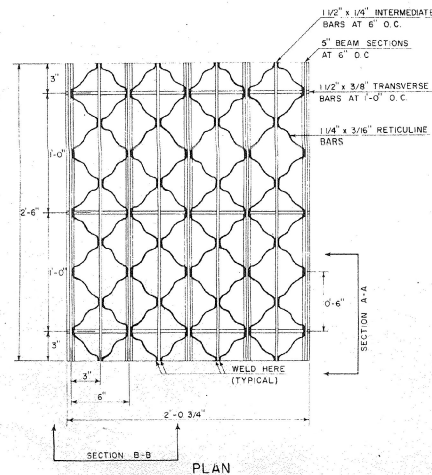
APPROVED
 April 2, 1973
 DATE
 R. H. Arnold
 CHIEF ENGINEER
 E. H. Sherman
 ASST. CHIEF ENGINEER
 J. M. Low
 HIGHWAY ENGINEER

REINFORCED CONCRETE DROP INLET WITH GRATE
 FOR USE IN DITCHES

VERMONT
 DEPARTMENT
 OF HIGHWAYS
 STANDARD

D-6

STEEL GRATE

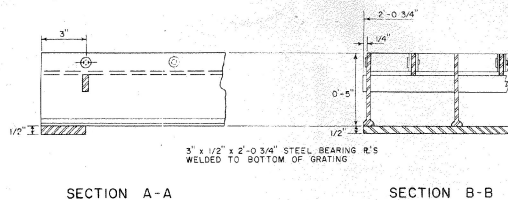


GRATE SIZE SINGLE 24 3/4" x 30"
DOUBLE 24 3/4" x 54"

WEIGHT, 95 LBS OR MORE

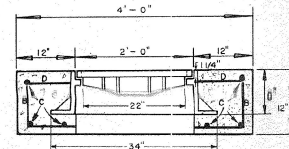
GRATES SHALL BE CAPABLE OF SUPPORTING H-20 (32,000 LB AXLE LOAD) INCLUDING 20% IMPACT.

UNIT STRESSES (LBS PER SQ IN.)	16,000	20,000
MAIN BAR PARALLEL TO TRAFFIC	45	53
MAIN BAR PERPENDICULAR TO TRAFFIC	39	42



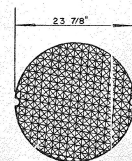
CAST IRON COVER WITH FRAME

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



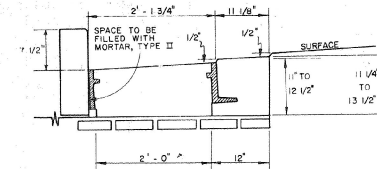
ELEVATION

ALL REINFORCING STEEL TO BE NO. 5 DEFORMED BARS



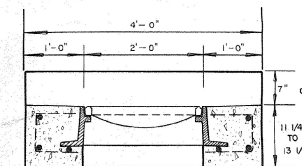
GENERAL NOTES
1. WEIGHT OF FRAME AND COVER = 425 LBS.

CAST IRON GRATE WITH FRAME



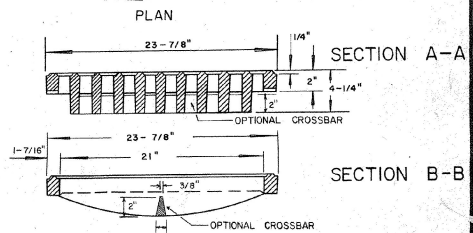
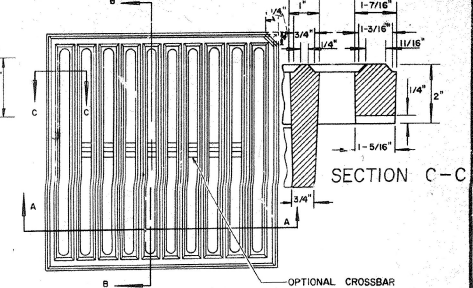
ELEVATION OF REINFORCED CONCRETE DROP INLET WITH VERTICAL GRANITE CURB AND 3 FLANGE CAST IRON FRAME FOR CAST IRON GRATE

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



ELEVATION

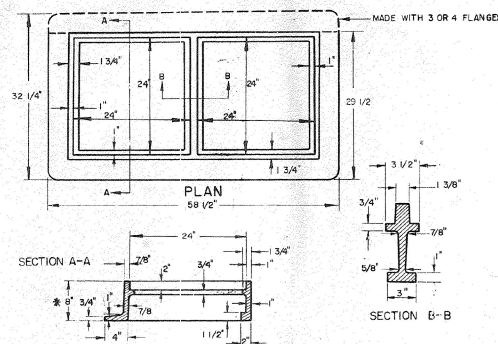
SUBSTITUTION OF CUT CORNER ON GRATE MAY BE MADE.



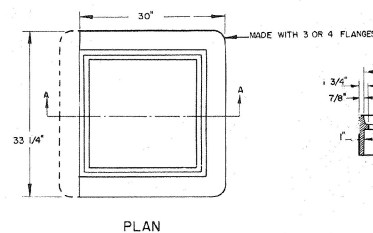
WEIGHT OF 3 FLANGED FRAME AND GRATE	
GRATE	220 LBS
FRAME	260 LBS
TOTAL	480 LBS

CAST IRON GRATE, TYPE A

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



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



SQUARE CAST IRON FRAME FOR CAST IRON GRATE TYPE A

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

REVISIONS AND CORRECTIONS

APRIL 25, 1972 CAST IRON COVER CHANGED FROM SQUARE TO CIRCULAR
SEPT. 4, 1990 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 10-6-91

R. W. Carroll
CHIEF ENGINEER
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ASST. CHIEF ENGINEER
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DRAWN: G. A. J.
TRACED: A. J.

STEEL GRATE
CAST IRON GRATE TYPE A
CAST IRON COVER



STANDARD
D-11