

State of Vermont
Agency of Transportation
Patrick J. Garahan, Secretary

PHASE III
Renovations to the
MATERIALS & RESEARCH LABORATORY
At the
State Highway Laboratory
Berlin, Vermont

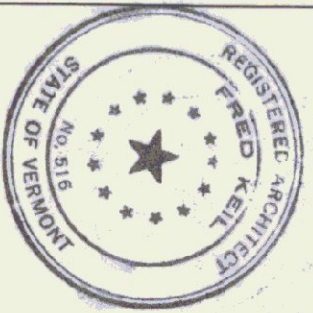


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State of Vermont
Department of State Buildings
John Zampieri, Commissioner

Materials & Research
Laboratory
Berlin, Vt.
PHASE III

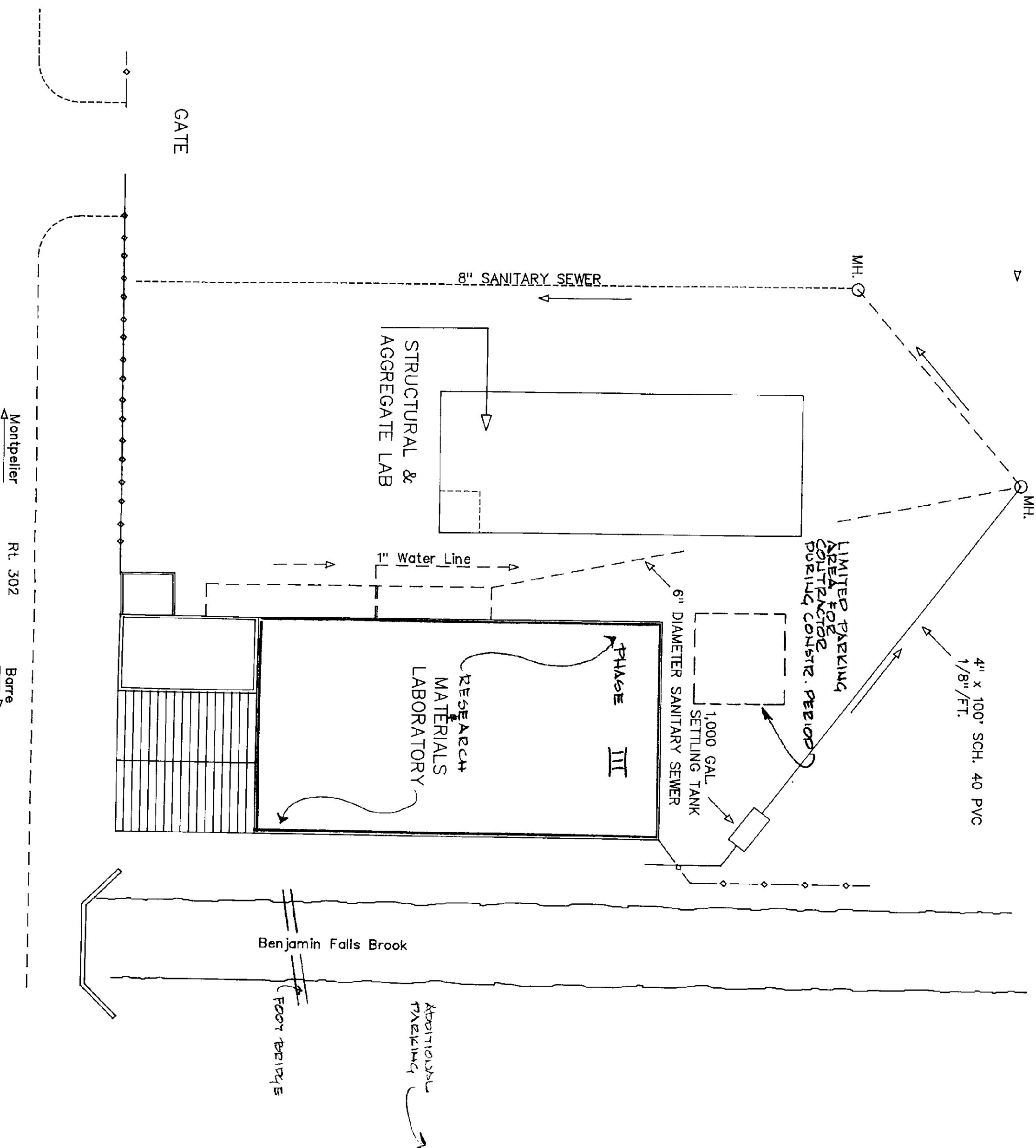


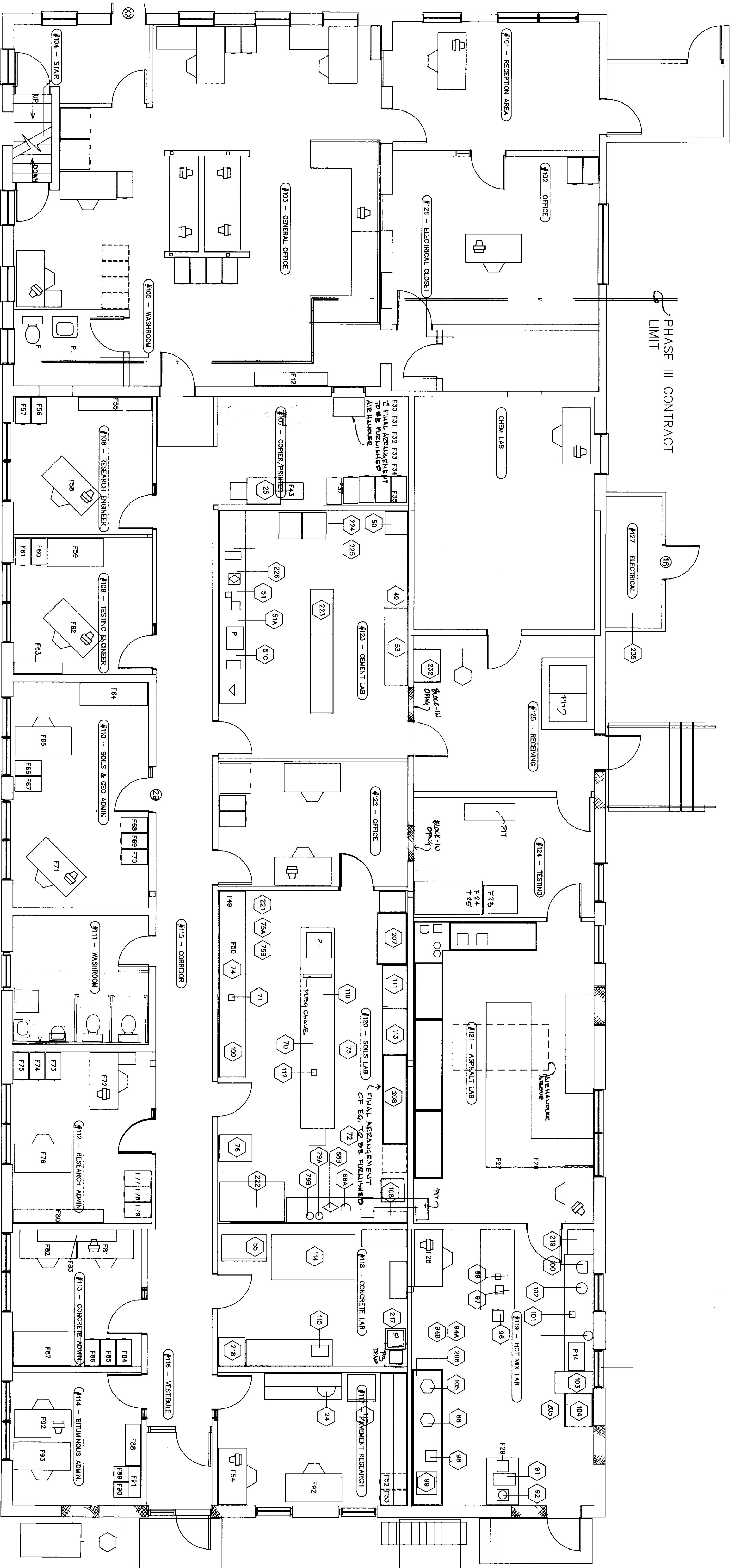
Janson Design, Inc.
FRED KEL, ARCHITECT
P.O. BOX 55 - BERTON ROAD, WATERBURY, VT 05676
(802) 244-5800

TITLE SHEET
REV. 1/20/41 SEE MAP, PWD, F.R.

DATE: 1/10/41
DWG. NO.

North
SITE PLAN/UTILITY PLAN
SCALE 1"=80'





FIRST FLOOR
STATE HIGHWAY LAB
SCALE: 1/4" = 1'-0"

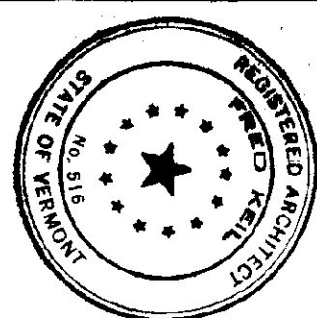
PHASE III CONTRACT
LIMIT

FURNITURE AND EQUIPMENT LAYOUT PLAN
SCALE 1/4" = 1'-0"
THIS DRAWING IS FOR INFORMATION ONLY.
SEE MECH DWGS & E-DWGS FOR SPECIFIC ITEMS



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LAYOUT PLAN

DATE:
1/10/91

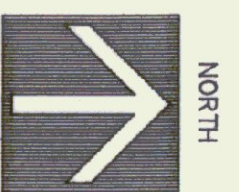
FIRST FLOOR

REV 1/29/91 BY 120, 117
DWG. NO. **L3**



FIRST FLOOR
STATE HIGHWAY LAB
SCALE: 1/4" = 1'-0"

PHASE III CONTRACT LIMIT



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PHASE III



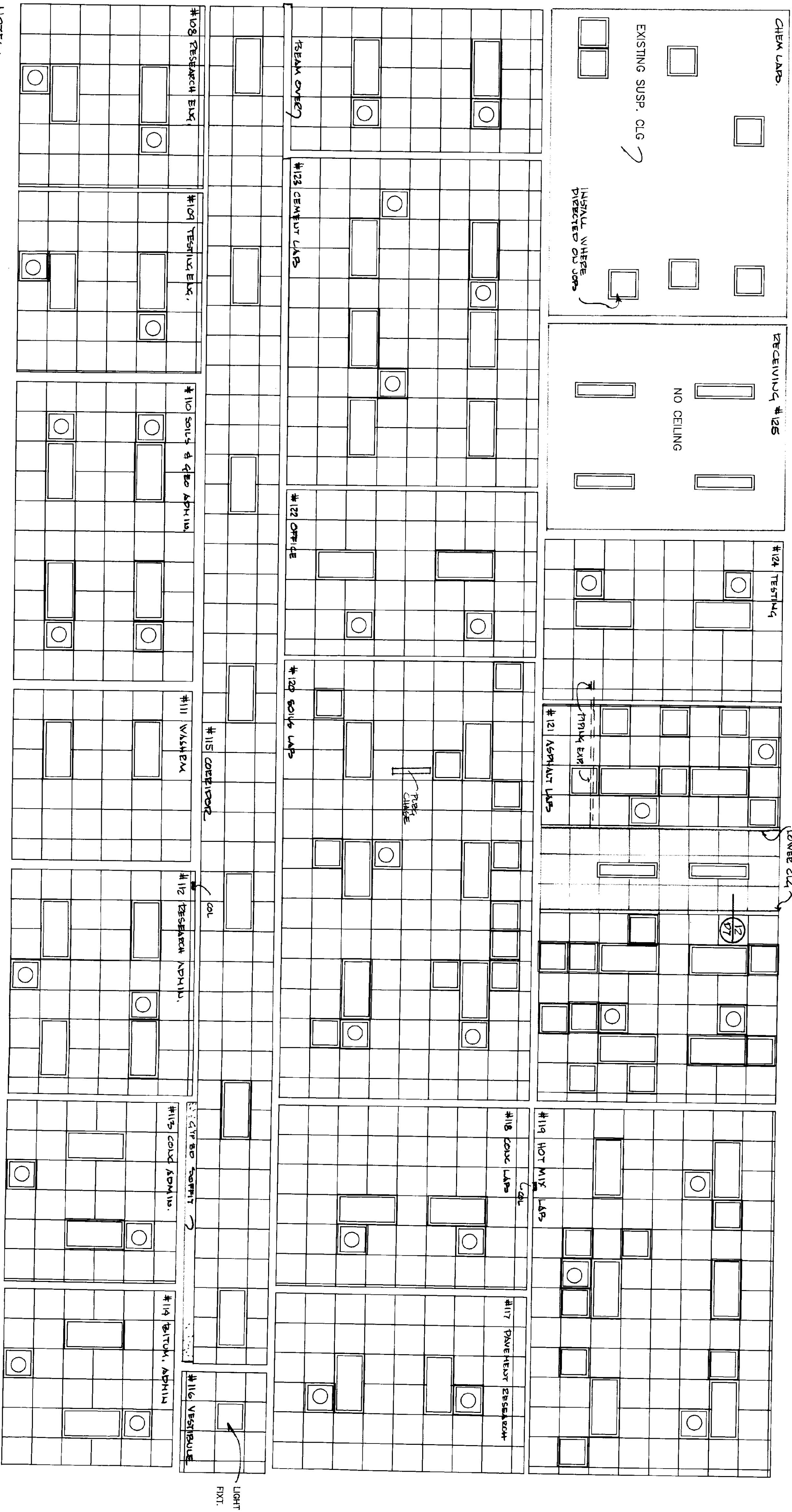
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FIRST FLOOR
PLAN
REV. 1/20/91 ROOF TOP UNIT
SUPPORTS, DOOR # 41, 42,
SEQU. OF CONSTR.

DATE:
1/10/91

DWG. NO.
A13

DROPPED CLG
SEE DET 12/b7



NOTES:
1. CLG INSTALLATION : MAX HEIGHT
EXACT HT TO BE ESTABLISHED.
2. COUNT SHALL COORD ALL TRADES
TO ACHIEVE MAX CLG HT.
3. REFER TO FIN. SCHED ONLY DS &
NOTES @ A13

LIGHT
FIXTURE
1X4

LIGHT FIXTURE
2X4

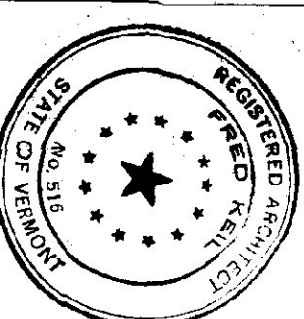
CLG DIFFUSER-COORDINATE
INSTALLATION BY OTHERS
CLG DIFFUSER/RETURN
SEE MECHANICAL DRWGS

REFLECTED CEILING PLAN
SCALE 1/4" = 1'-0"

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PHASE III



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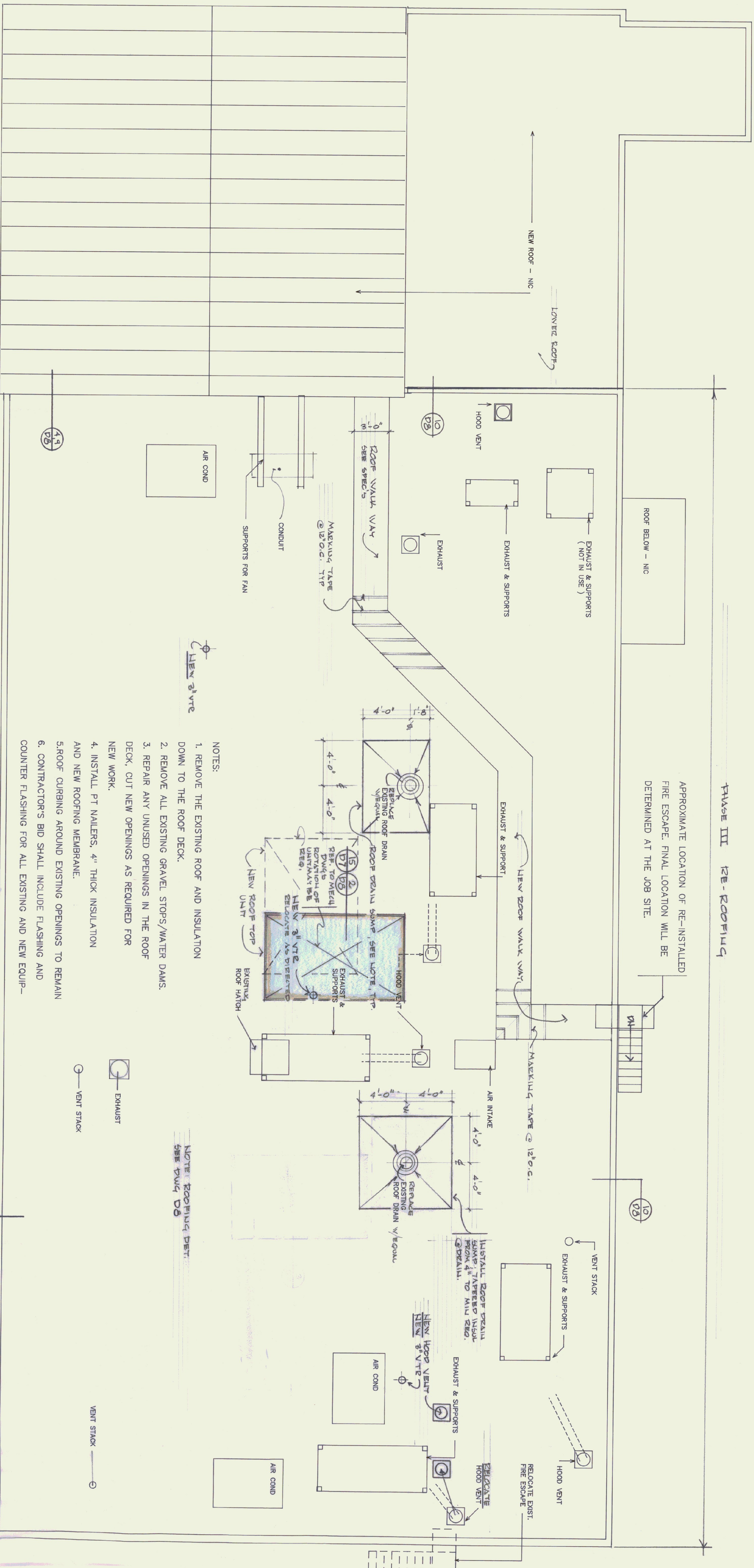
REFLECTED CEILING
PLAN

DATE: 1/10/91
DWG. NO. A14

REV. 1/20/91 DIFF. Q15A14

PHASE III RE-ROOFING

APPROXIMATE LOCATION OF RE-INSTALLED
FIRE ESCAPE. FINAL LOCATION WILL BE
DETERMINED AT THE JOB SITE.

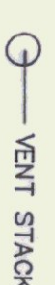


NOTES:

1. REMOVE THE EXISTING ROOF AND INSULATION DOWN TO THE ROOF DECK.
2. REMOVE ALL EXISTING GRAVEL STOPS/WATER DAMS.
3. REPAIR ANY UNUSED OPENINGS IN THE ROOF DECK, CUT NEW OPENINGS AS REQUIRED FOR NEW WORK.
4. INSTALL PT NAILERS, 4" THICK INSULATION AND NEW ROOFING MEMBRANE.
5. ROOF CURBING AROUND EXISTING OPENINGS TO REMAIN
6. CONTRACTOR'S BID SHALL INCLUDE FLASHING AND COUNTER FLASHING FOR ALL EXISTING AND NEW EQUIP-



EXHAUST



VENT STACK

NOTE: ROOFING DET.
SEE DWG D6

ROOF PLAN

SCALE 1/4" = 1'-0"

MENT, NEW AND EXISTING ROOF PENETRATIONS, SAELENT
POCKETS, EQUIPMENT SUPPORTS, WALL FLASHING, TRANSITION
TO LOWER ROOF, ETC.
1. NEW EQUIPMENT IS IDENTIFIED ALL OTHER
EQUIPMENT BASES & PENETRATIONS EXIST.
CONTRACTOR SHALL VERIFY EXISTE INSTALLATION,
ALL DECKS & INCLUDE ALL CRACKS, FLASHING & BASES
IN HIS BID.

3. CONTRACTOR SHALL REPAIR ROOF DECK, CUT NEW OPENINGS &
FURNISH & INSTALL ALL SUPPORTS, JOIST REINFORCEMENTS

(S CONT) STL COL & REPAIRING FL
& CONNECTIONS AS SHOWN &
REQ.



TYP



NORTH

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Berlin, Vt.

PHASE III



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RED KILL, ARCHITECT
1000 W. 1000 W. 1000 W.
(802) 244-5800

ROOF PLAN

DATE:
1/10/91

REV 1/20/91 ROOF TOP UNIT
& NOTES

DWG. NO.

A15

APPROX LOCATION FOR RE-INSTALLATION OF
FIRE ESCAPE REMOVE RUST, PRIME AND PAINT
ALL PARTS.

CMU INFILL PANEL
PT NAILERS AND NEW
GRAVEL STOP
CMU INFILL PANEL
NEW DOOR AND FRAME
INSTALLED IN EXISTING
OPENING
EXISTING UNTEL

LANDING AND EXIT STAIRS BY OTHERS

FILLER PANEL. SEE DE

— EXT. SILL TO REMAIN

FILE GRADE 7

[illegible]

Figure 1

—

NORTH ELEVATION

PRIME PAINT ALL CONCRETE BLOCK

NOTE:
THE BASE BID DOES NOT INCLUDE ANY WINDOW REPLACEMENT.

ALTERNATE #1
ADD WINDOW REPLACEMENT & BRACKET-11 WINDOW CRACK
AS SHOWN ON EAST ELEVATION.

ALTERNATE #2

APD WINDOW REPLACEMENT & PLACED IN WINDOW CRACKS/
FILLER PANELS AS SHOWN ON NORTH ELEVATION

PT NAILERS AND NEW GRAVEL STOP, TYP.
TYPICAL FOR ALL OPENINGS:
REMOVE EXISTING METAL SASH;
INSTALL NEW WINDOWS, FILETS AND
EXISTING EXTERIOR SILL TO REMAIN.
IN GENERAL - UPPER SASH FIXED;
LOWER SASH OPERABLE
SEE DET. DRAWING

REVISIONS TO SECURITY FENCE
BY OTHERS _____

REMOVE EXISTING WINDOW _____

FILL AND RELATED SITEWORK BY OTHERS _____

CONC SLAB OR BITUMIN WALK BY OTHERS _____

FIN. GRADE TO OTHERS

APPLY PAINT ALL CONCRETE BLOCK

EXISTING FIRE ESCAPE
EXISTING HAZ. WASTE TANK
EXISTING CONC DOCK AND STEPS

C	B
C	B

A diagram showing a 2x2 grid. The top-left and bottom-left cells are shaded and each contains a label 'C'. The top-right and bottom-right cells are white and each contains a label 'B'.

A diagram showing a 2x2 grid. The top-left cell contains the letter 'E' and the top-right cell contains the letter 'D'. The bottom two cells are empty.

A diagram showing a 2x2 grid. The top-left and bottom-left cells are labeled 'C' and contain a diagonal line from the top-left to the bottom-right. The top-right and bottom-right cells are labeled 'B'.

A diagram showing a 2x2 grid. The top-left and bottom-right cells are labeled 'B'. The top-right and bottom-left cells are labeled 'C'.

APPROX 114 Q25DE

PRIME PAINT ALL CONCRETE BLOCK

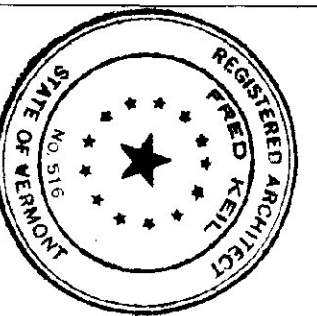
SOUTH ELEVATION

SCALE 1/4" = 1'-0"

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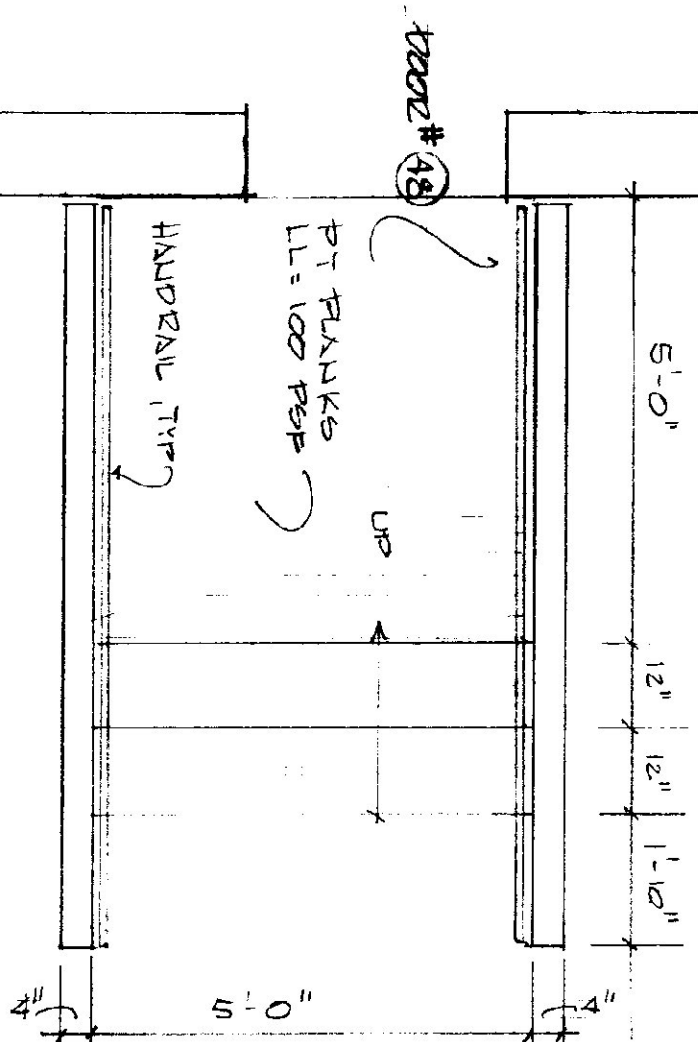
PHASE III



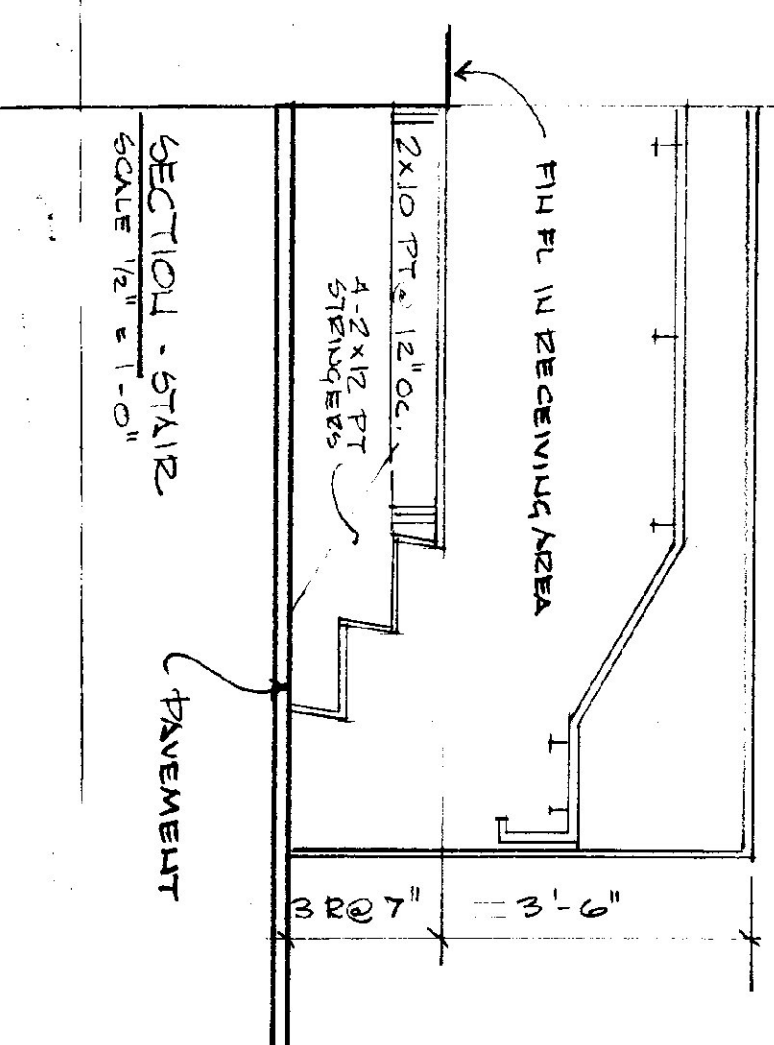
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EXTERIOR ELEVATIONS
& ALTERNATES

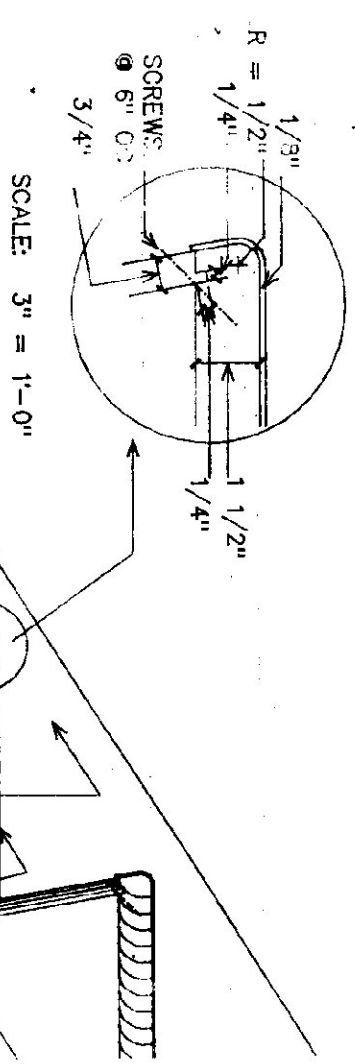
DWG. NO. **A16**



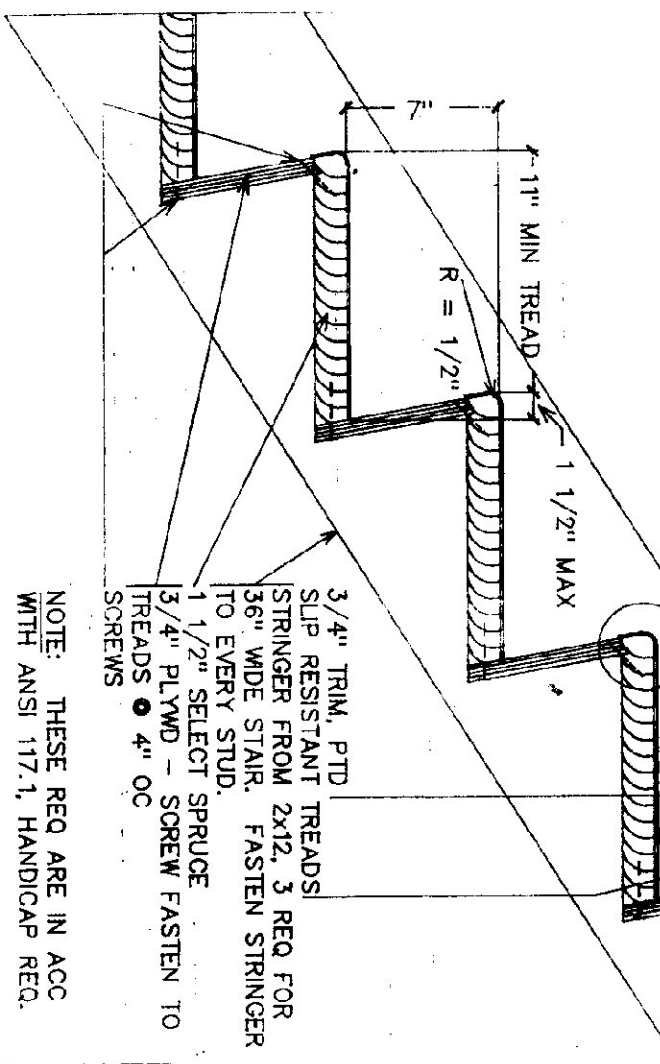
PEAK - ENTRANCE STAIR
SCALE 1/2" = 1'-0"



SECTION - 57A12
SCALE 1/2" = 1'-0"



SCALE: 3" = 1'-0"



TYPICAL SECTION OF STAIRS

STAIR H/C - B? OTHERS

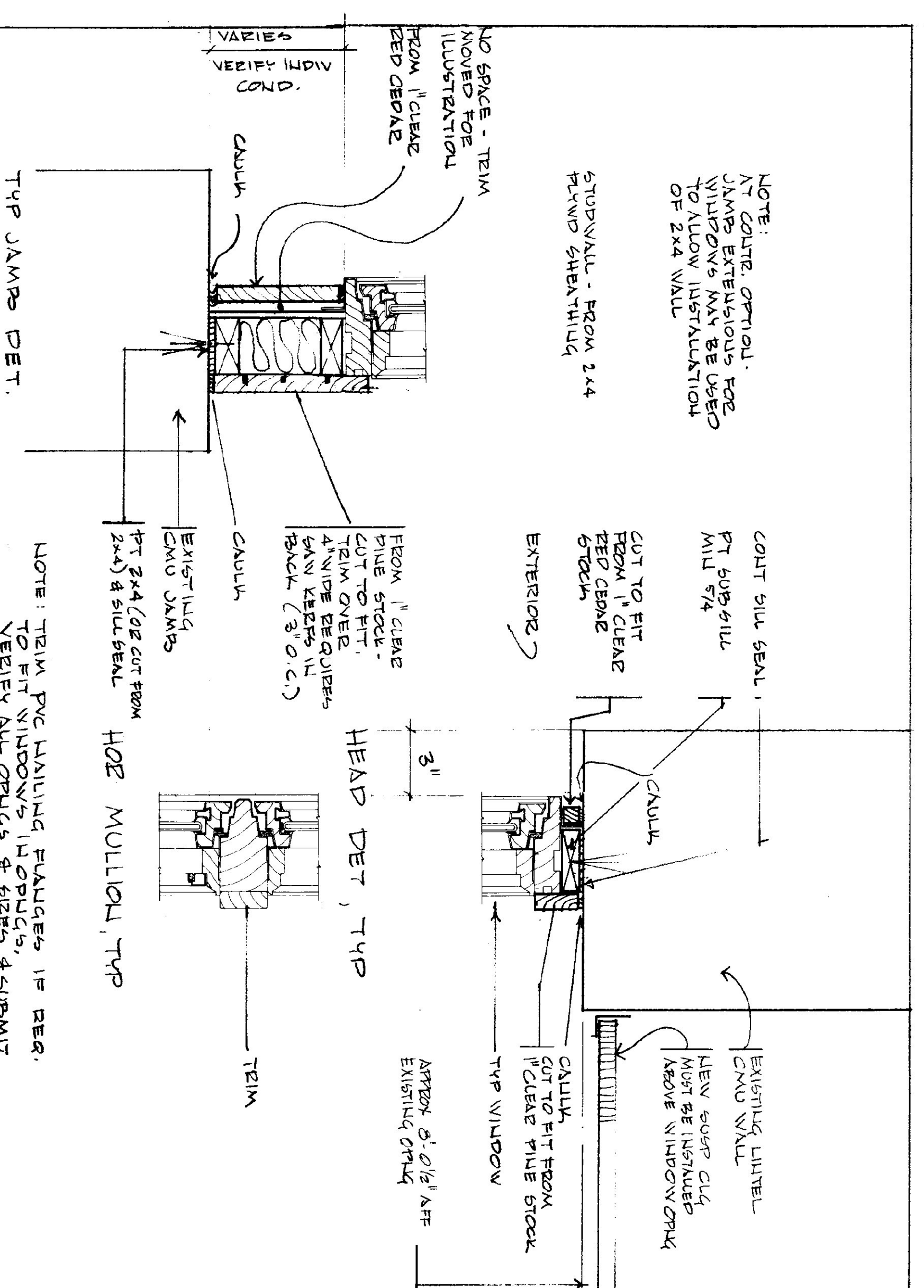
WINDOW SCHEDULE	
* REFER TO DETAILS & BUDG ELEVATIONS FOR SPECIFIC LOCATIONS. * SEE ALTERED/UPDATED SHOWN ON DWG. A-16 * WINDOW TYPES BASED ON AUDEBORN CATALOG 1990 SECOND EDITION	
WINDOW TYPE	MAUVE ID#
A	AN 351
B	A 3535
C	AN 351
D	AN 31
NOTES: FOR ALL 1) HIGH PERFORMANCE INSUL GL. 2) UPPER BASH FINED LOWER BASH OPENING WITH SCREENS 3) JUALSTAL FACTORY ASSEMBLED COMBINATION 4) SEE SPEC'S	

FINISH SCHEDULE:										
ROOM NO.	ROOM NAME	FLOOR	BASE	NEW EXISTING WALLS	CEILING	REMARKS				
		MAT'L FIN.	TYPE	MAT'L FIN.	MAT'L FIN.	PTD	MAX	SUSP /AC		
107	COPIER/PRINTER	TILES	VINYL	4" VINYL		EXIST. CMU 4" GYP BD				REFER TO ALL NOTES CLEANING AND FINISHING OF BRICK WALL BY OTHERS. INSTALL A-BOTTOM CARPET, 4" HIGH ON 3 WALLS. SEE DET. 204.01/2
108	RESEARCH ENGINEER	EX CARPET				EXIST. CMU 4" GYP BD				
109	TESTING ENGINEER	EX CARPET				EXIST. CMU 4" GYP BD				
110	SOILS & GEO. ADMIN.	EX CARPET				EXIST. CMU 4" GYP BD				
111	WASHROOM	EXISTING		EXISTING		EXIST. CMU 4" GYP BD				REPLACE EXIST. GLD. - REINSTALL CLEANER BATH LOWER - PAINT ALL WALLS
112	RESEARCH ADMIN.	EX CARPET	↓	4" VINYL		EXIST. CMU 4" GYP BD				
113	COCRETE ADMIN.	CARPET BY OTHERS								
114	BITUMIN. ADMIN.	CARPET BY OTHERS								
115	CORRIDOR	TILES	VINYL							
116	VESTIBULE	TILES	VINYL							
117	PAVEMENT RESEARCH	CARPET BY OTHERS								
118	CONCRETE LAB	TILES	VINYL							
119	HOT MIX LAB	TILES	VINYL							
120	SOILS LAB	TILES	VINYL							
121	ASPHALT LAB	TILES	VINYL							
122	OFFICE	TILES	VINYL							
123	CEMENT LAB	TILES	VINYL							
124	TESTING	TILES	VINYL							
125	RECEIVING	EX COND.								

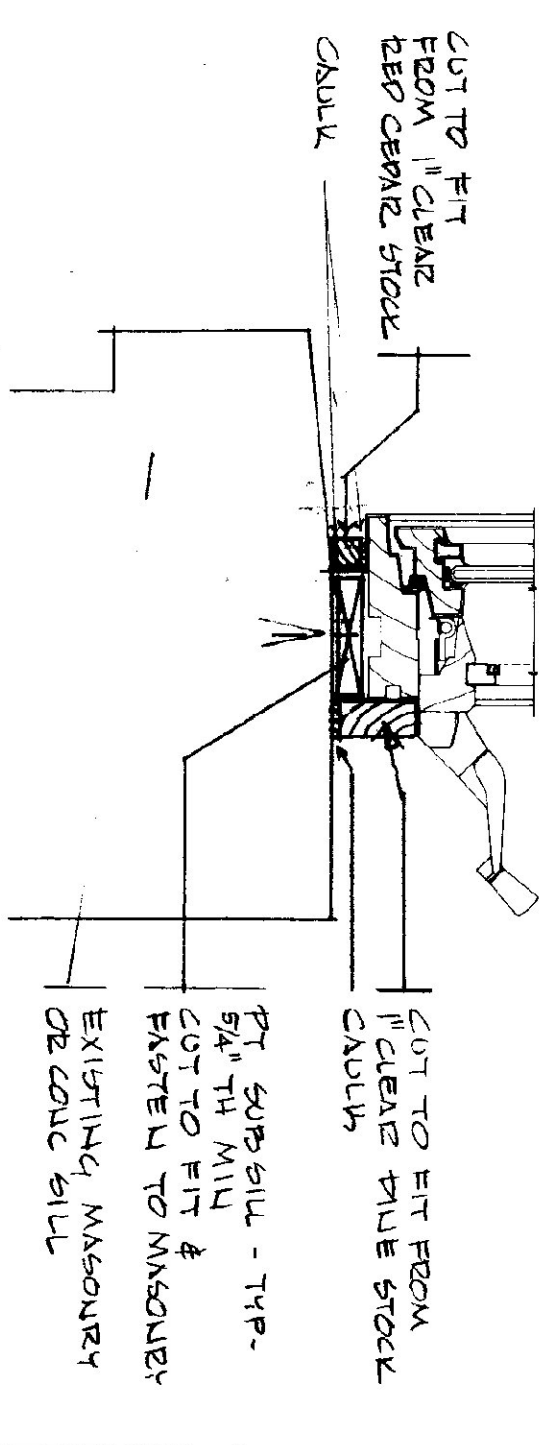
NOTES:

1. EXISTING CARPETING IN ROOMS # 108, 109, 110 AND 112 SHALL BE PROTECTED FROM DAMAGE BY CONTRACTOR. ANY DAMAGE DONE TO THE CARPETING BY THE CONTRACTOR, SUB CONTRACTOR AND/OR THEIR EMPLOYEES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
2. EXISTING CONCRETE BLOCK WALLS IN ALL AREAS SHALL BE PAINTED.
3. CONTRACTOR SHALL INSTALL VINYL BASES IN ALL ROOMS.
4. IN ROOM # 121, ASPHALT LAB, THE SUSPENDED AIR HANDLER SHALL BE CONCEALED IN THE CEILING. REFER TO DETAILS FOR THE LOWER CEILING.
5. SUSPENDED CEILINGS SHALL BE INSTALLED AS SHOWN. DEVIATION FROM THE PROPOSED LAYOUT REQUIRES ARCHITECT'S APPROVAL.
6. REFER TO ALL DRAWINGS IN COORDINATING THE CEILING INSTALLATION. THE MAJOR ITEMS ARE SHOWN ON THE REFLECTED CEILING PLAN.
7. NEW & EXISTING CONCRETE BLOCK WALLS (CMU) SHALL BE PAINTED. ALL EXISTING & NEW GYPSED SHALL BE PAINTED.

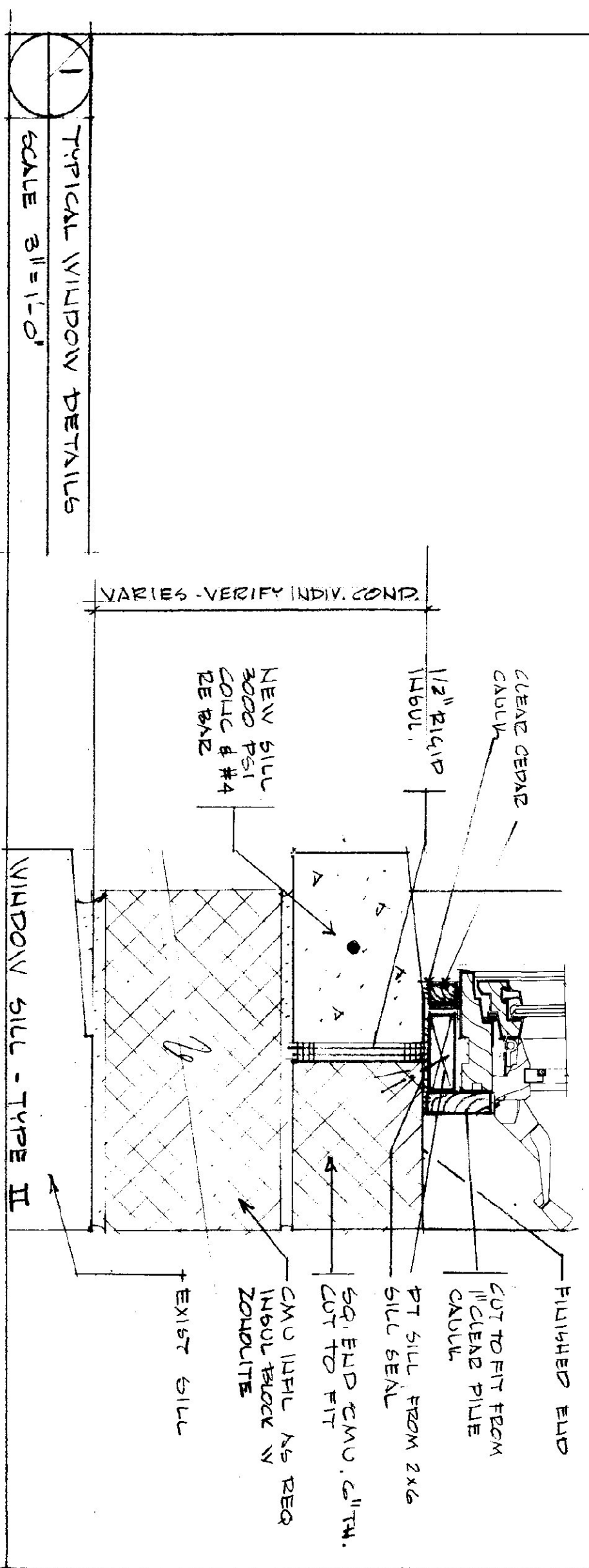
State of Vermont Department of State Buildings John Zampieri, Commissioner
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TYP JAMES DET.

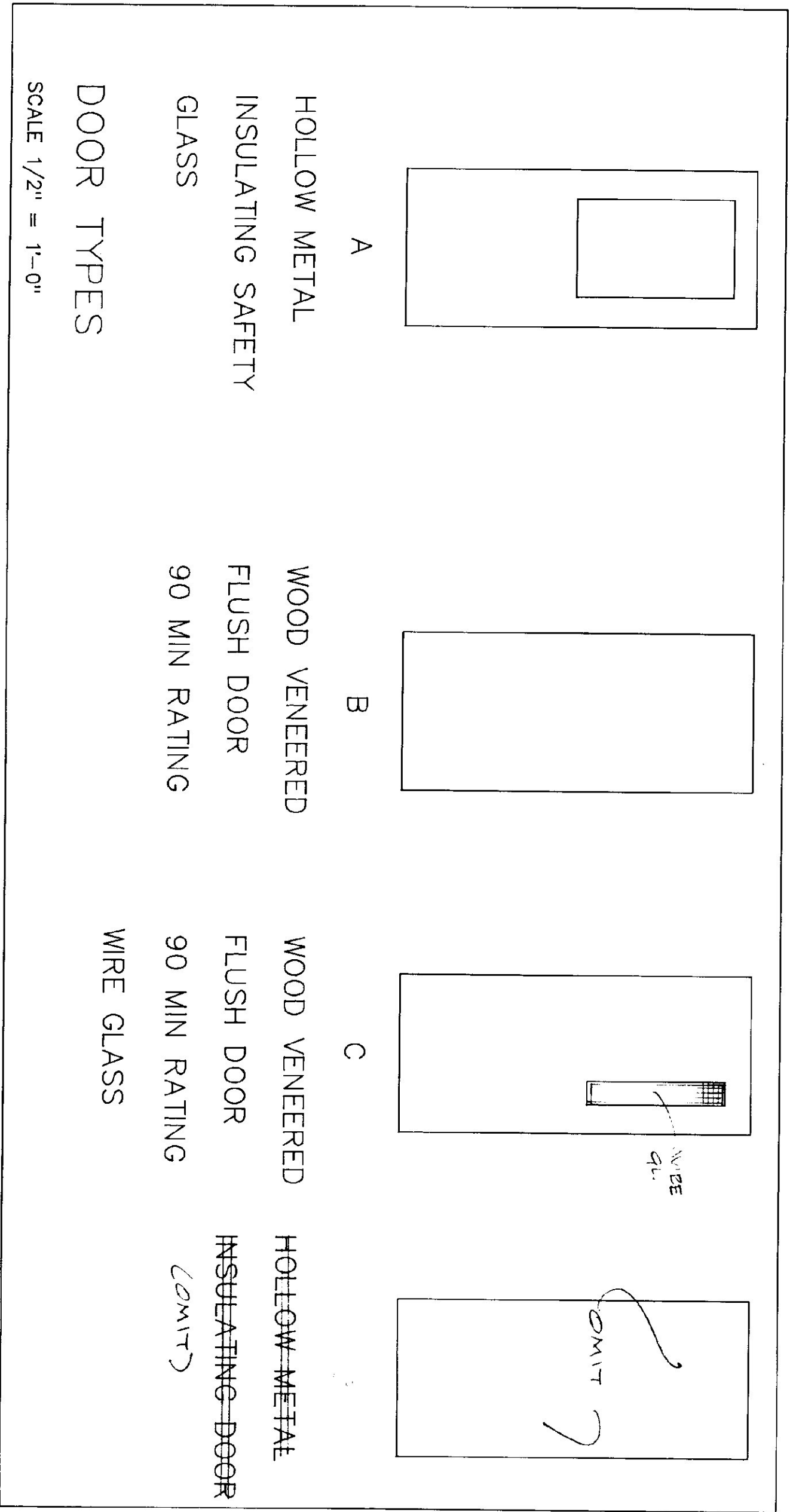


WINDOW SILL - TYPE 1

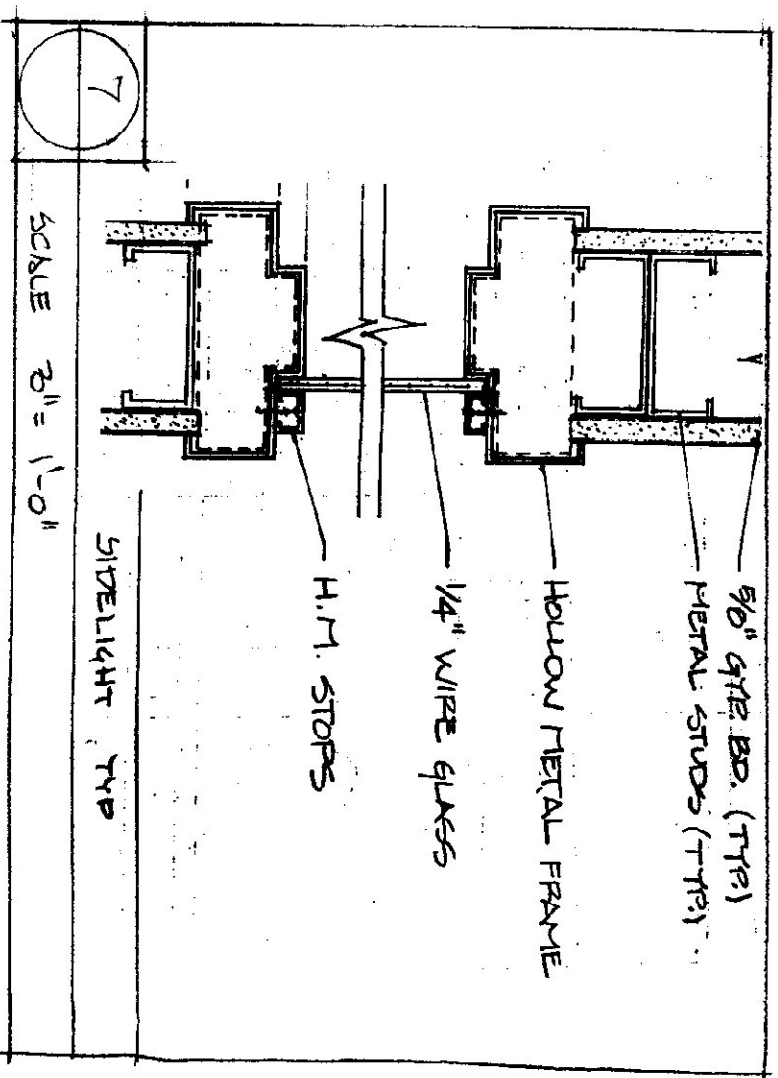
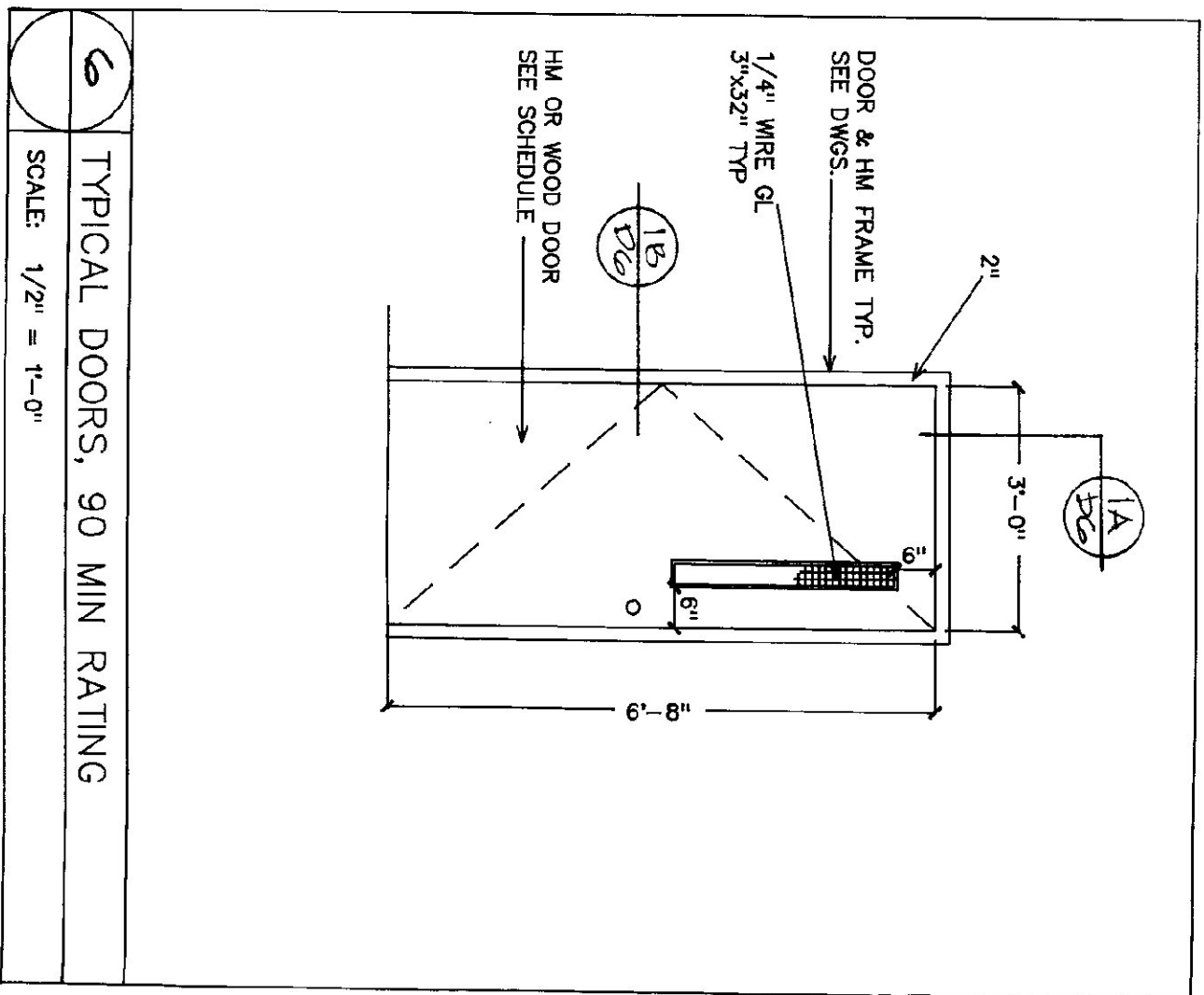
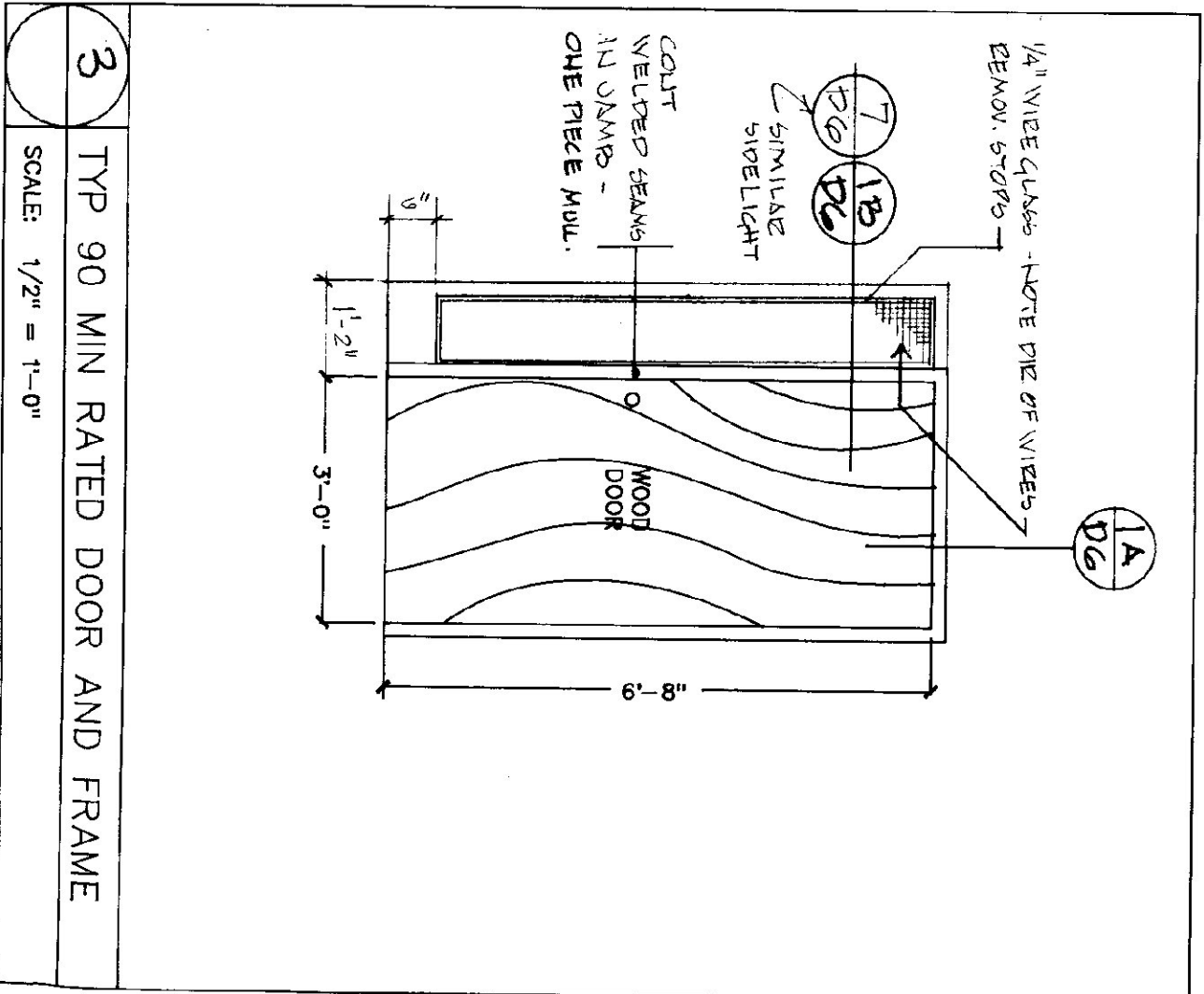
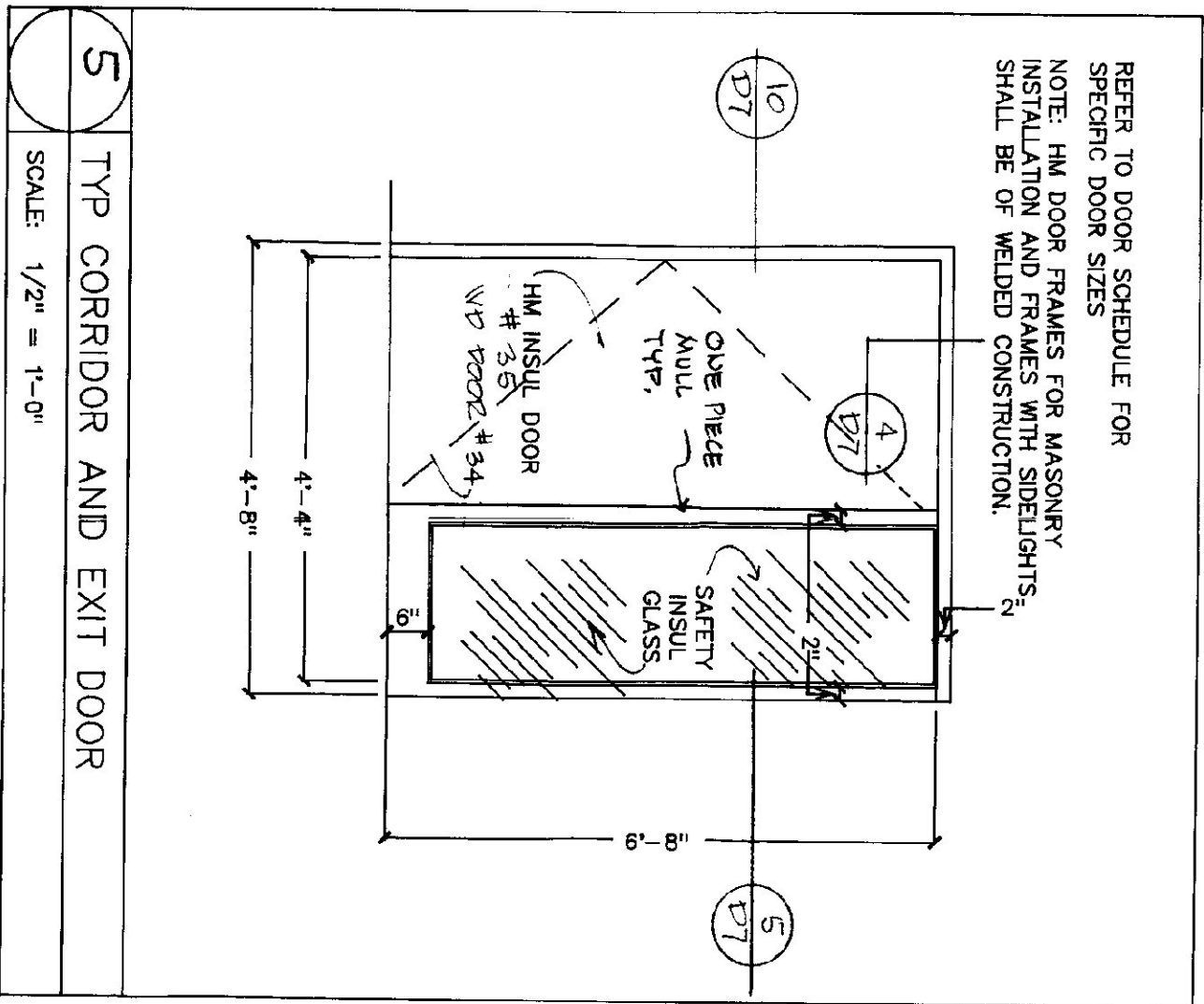
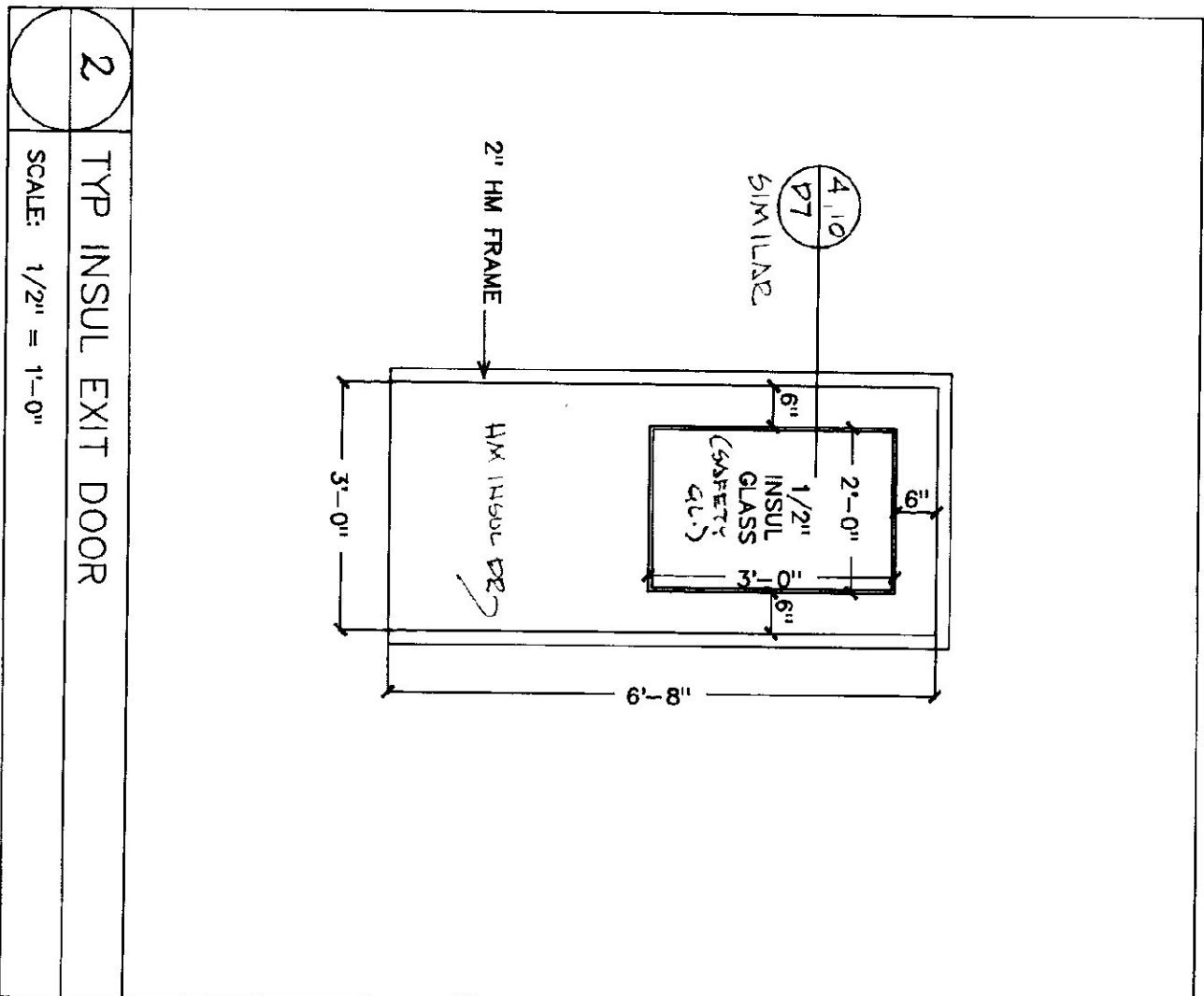
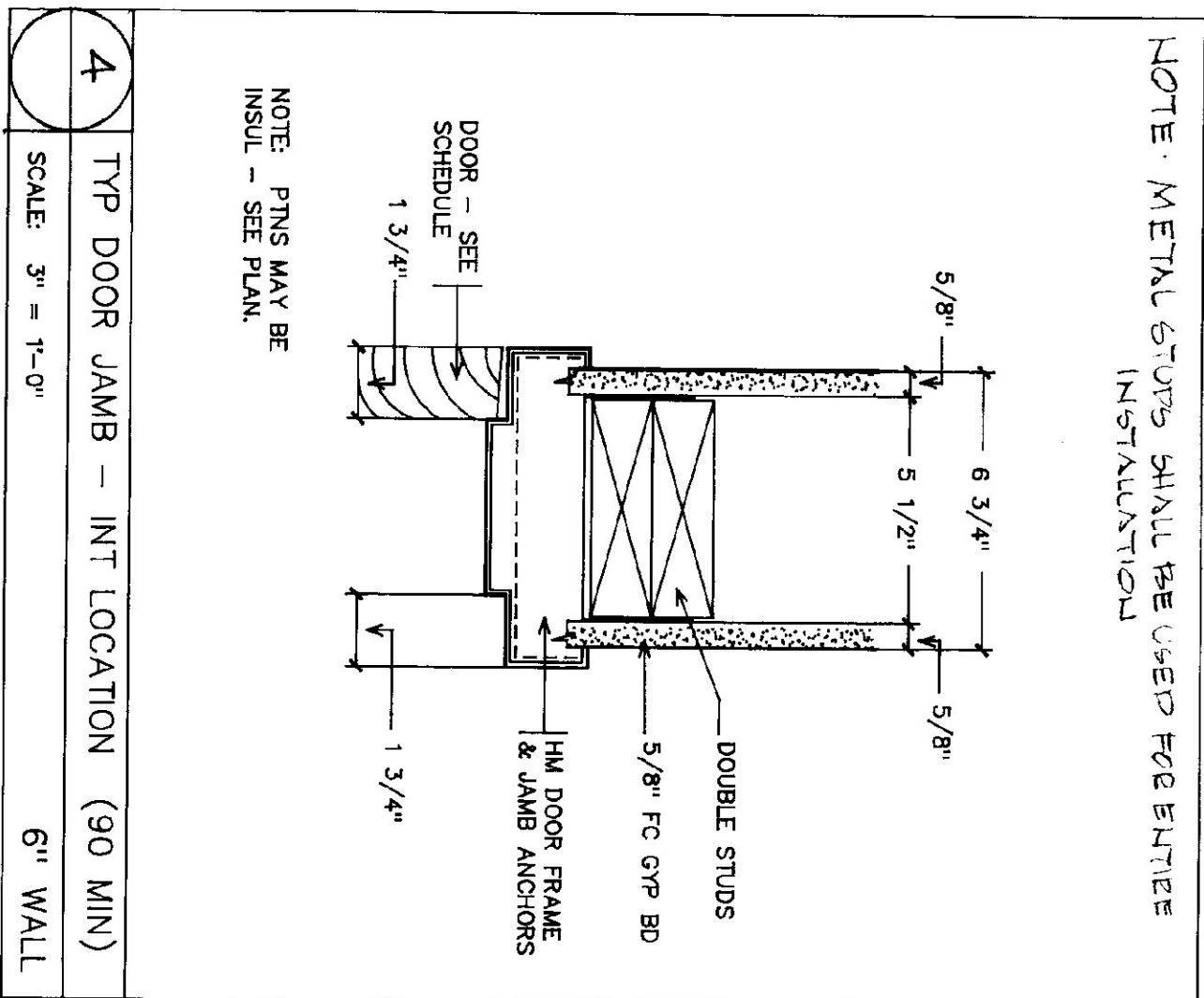
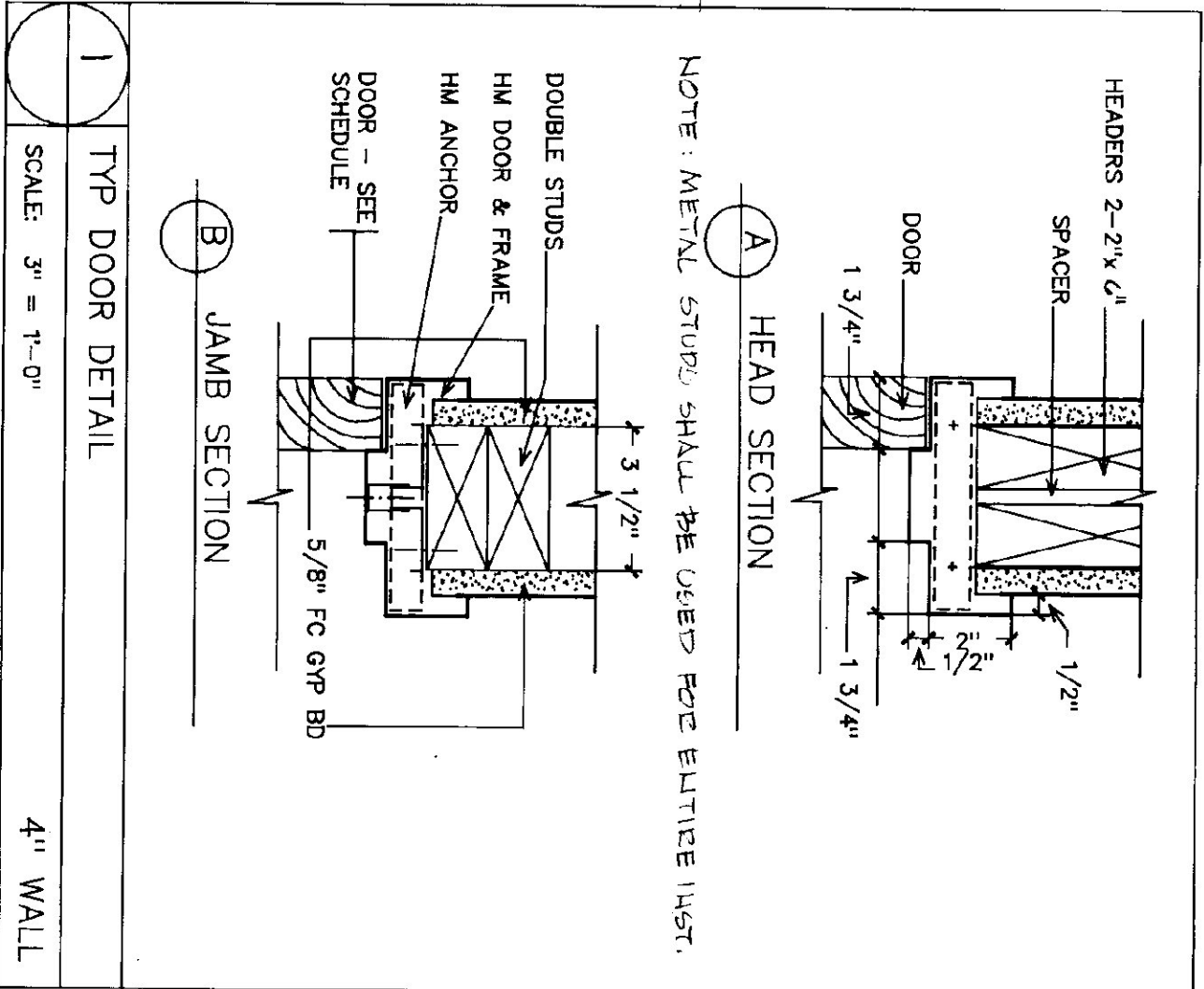


TYPICAL WINDOW DETAILS

Materials & Research Laboratory Berlin, Vt. PHASE III		Janson Design, Inc. FRED NEIL, ARCHITECT 101 N. ROAD, WATERBURY, VT 05676 (802) 246-5888	FULL-SCALE SCHEDULE & WILSON DET	DATE: 1/10/91
		DWG. NO. D5		



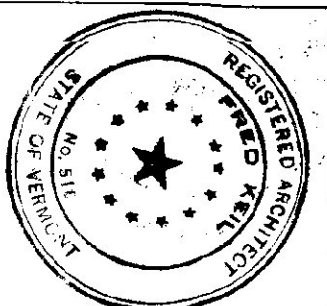
DOOR SCHEDULE									
NO.	TYPE	DOOR			FRAME				REMARKS - REFER TO ALL DET. SPECIFIC INST. & ASSEMBLY SEE ALSO CONC. DT
		WIDTH	HGT.	THK.	MAT'L	FIN.	MAT'L	FIN.	
27	B	3'-0"	6'-8"	1 3/4	WD	S&V	HM	PTD	WELDED FRAME
28	B				WD				WELDED FRAME
29	B				WD				WELDED FRAME
30	B				WD				WELDED FRAME
31	B				WD				WELDED FRAME
32	B				WD				WELDED FRAME
33	B				WD				WELDED FRAME
34	B				WD				WELDED FRAME
35	A				HM	PTD			INSULATED DOOR, WELDED FRAME
36	B				WD	S&V			WELDED FRAME
37	C				WD				WELDED FRAME
38	C				WD				WELDED FRAME
39	C				WD				WELDED FRAME
40	C				WD				WELDED FRAME
41	C				WD				WELDED FRAME
42									WELDED FRAME
43									WELDED FRAME
44									WELDED FRAME
45	A				HM	PTD			INSULATED DOOR, WELDED FRAME
46	C				WD	S&V			WELDED FRAME
47	C				WD	S&V			WELDED FRAME
48	A				HM	PTD			INSULATED DOOR, WELDED FRAME
49	C				WD	S&V			WELDED FRAME



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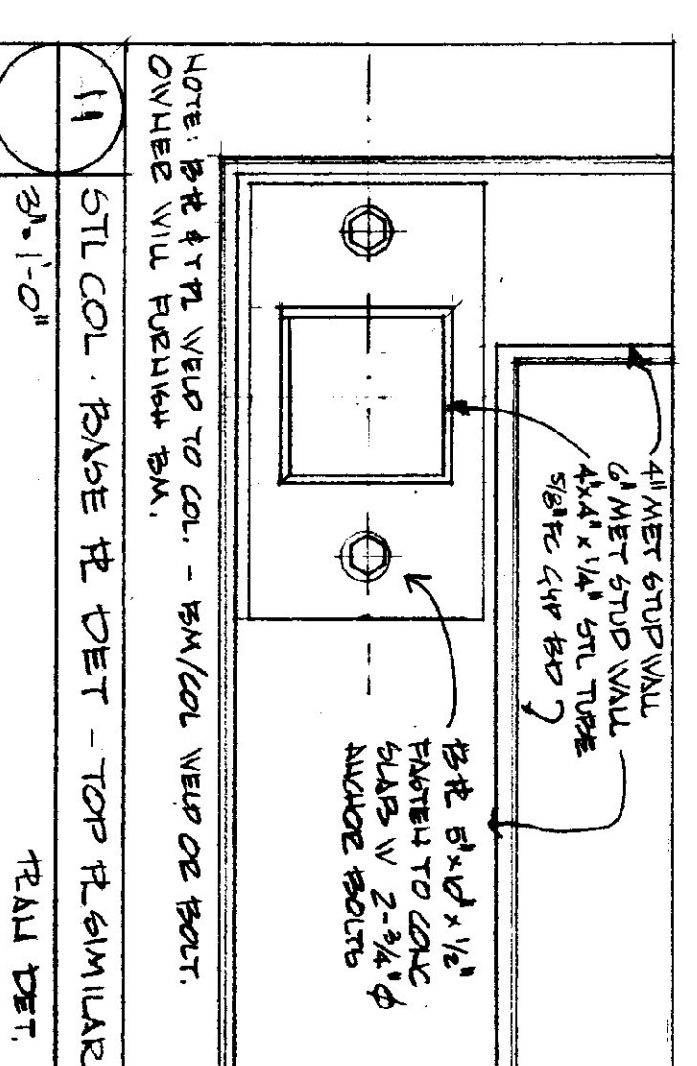
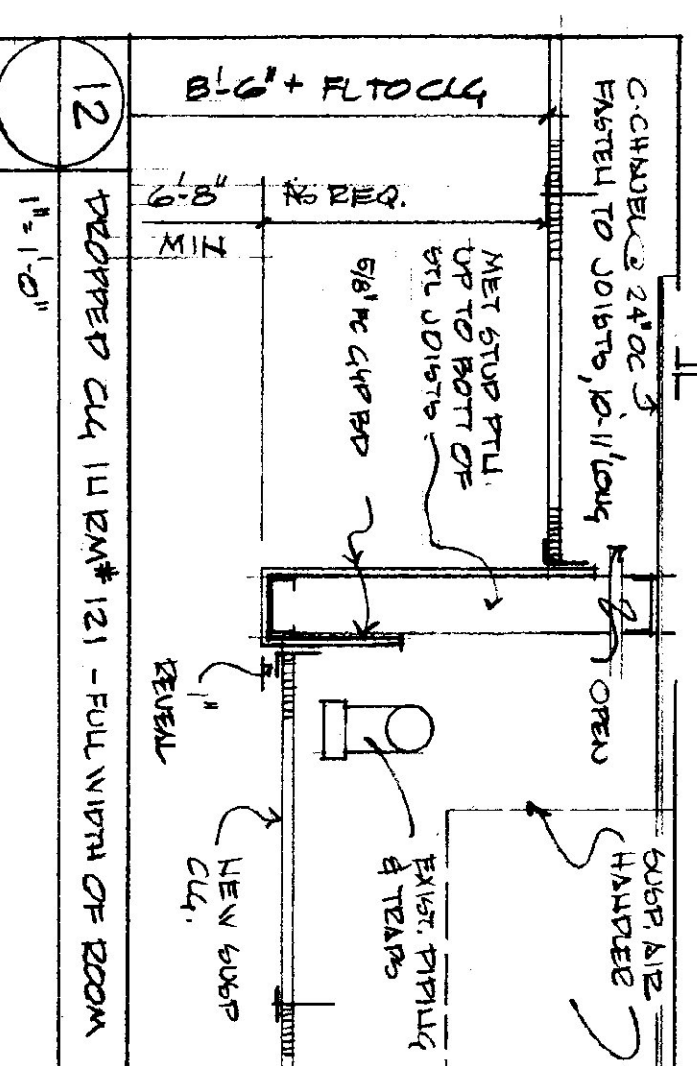
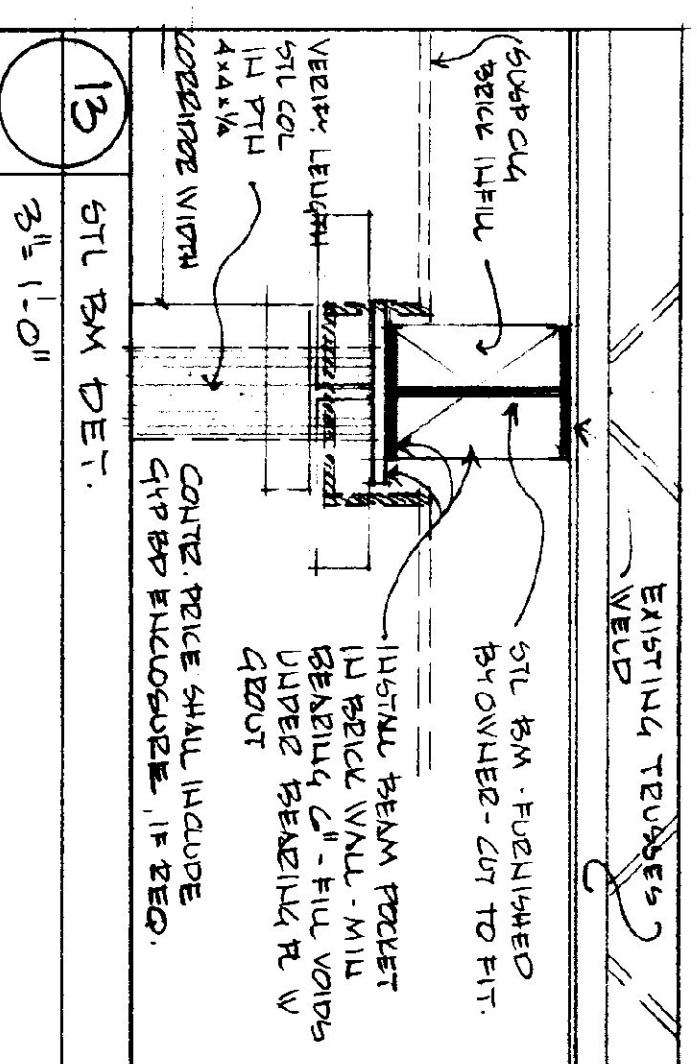
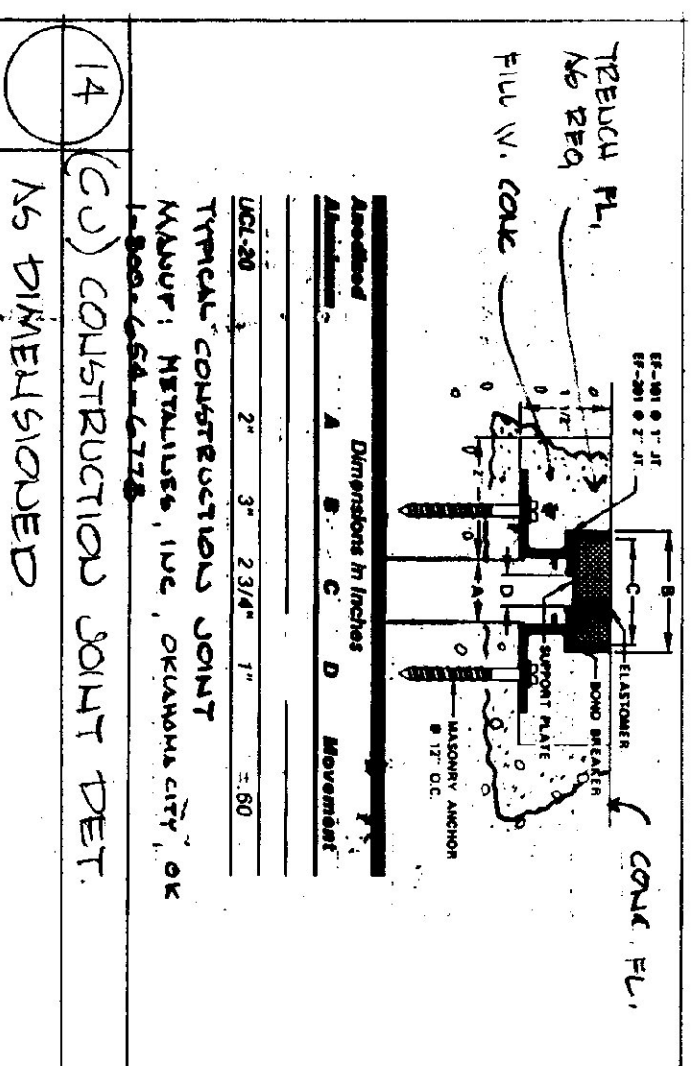
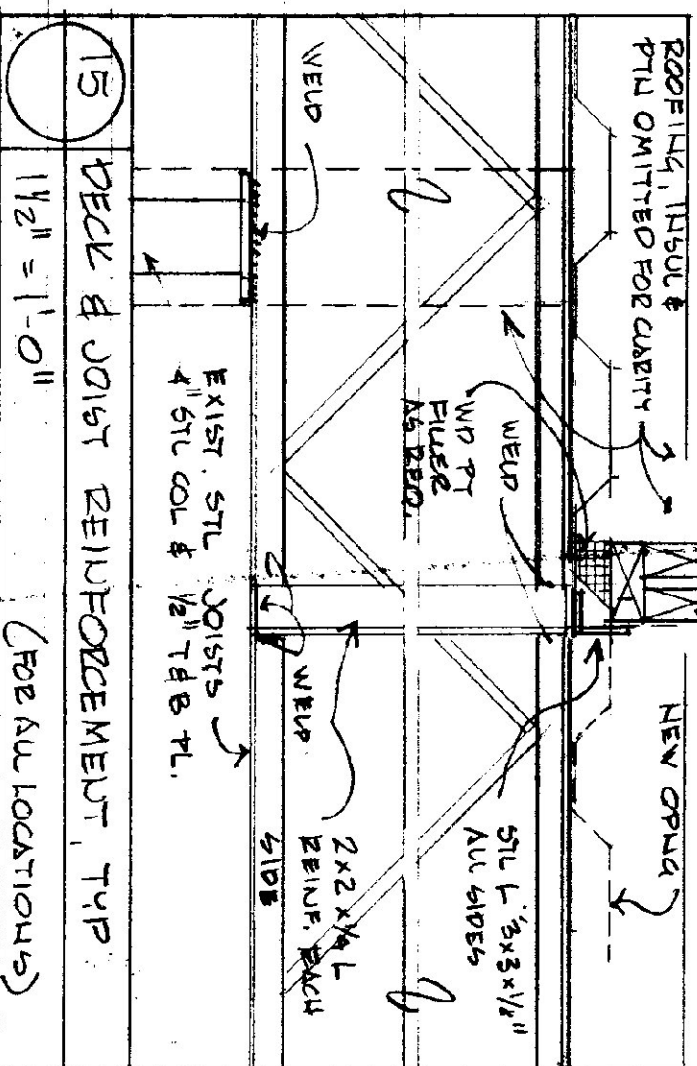
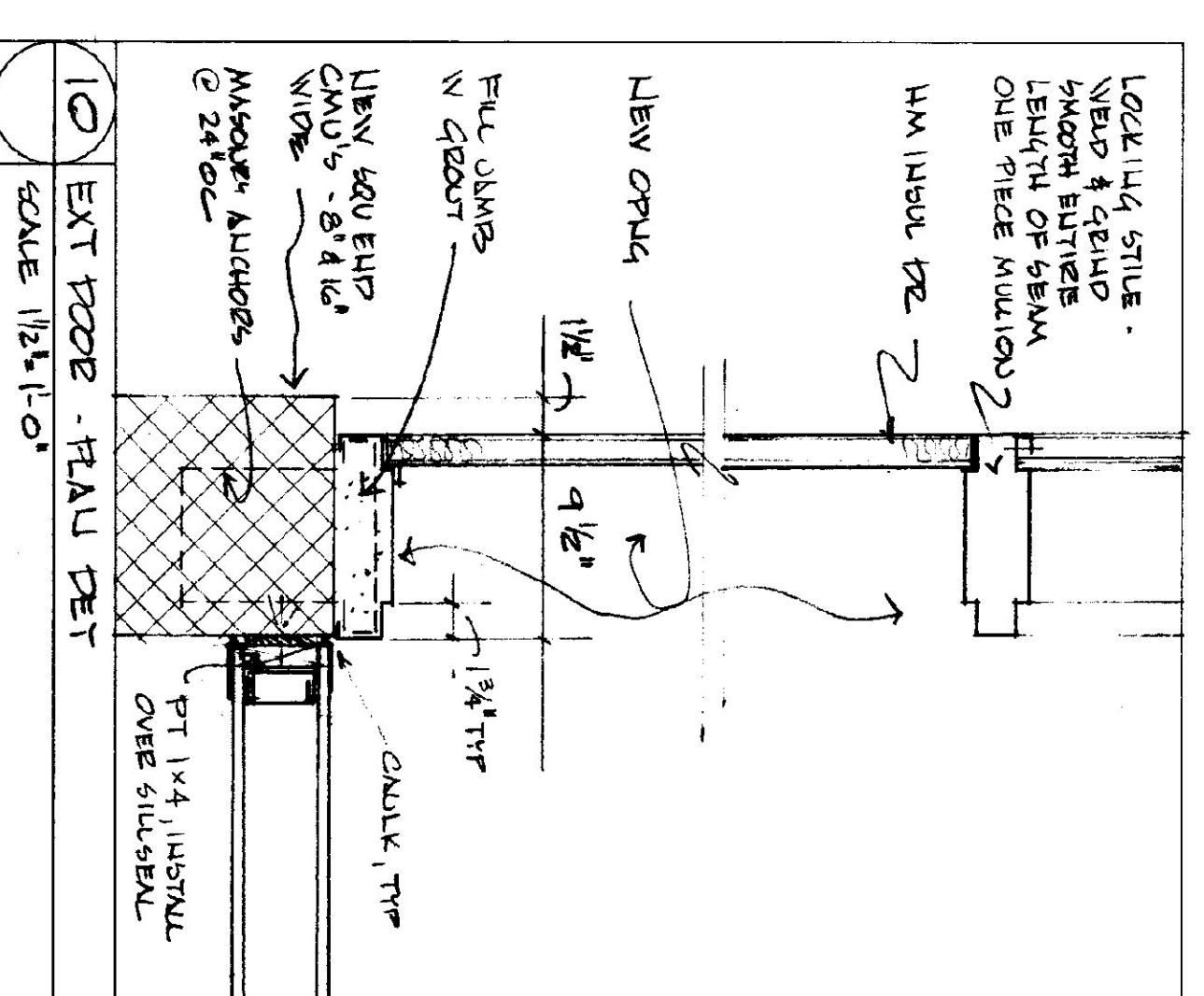
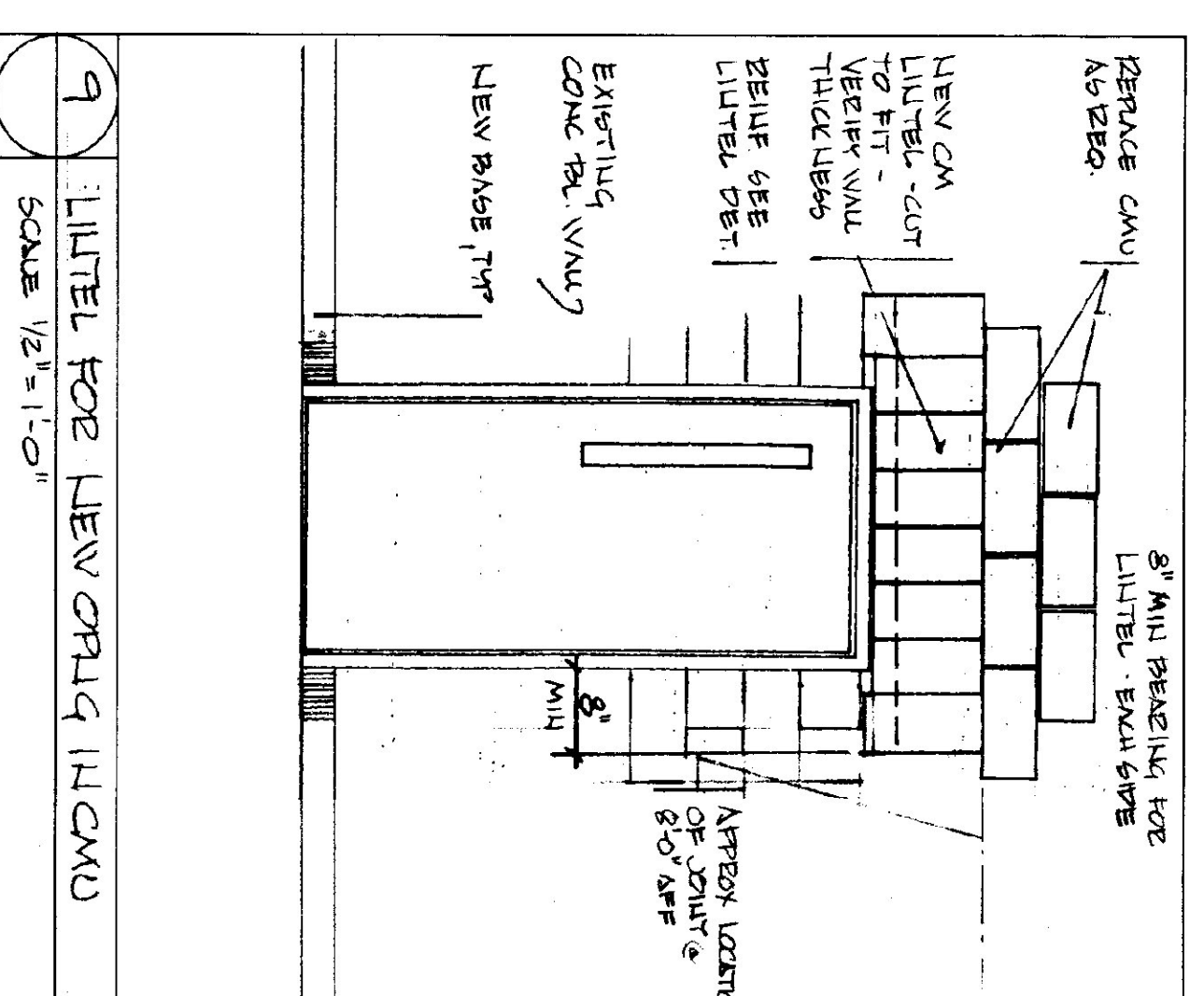
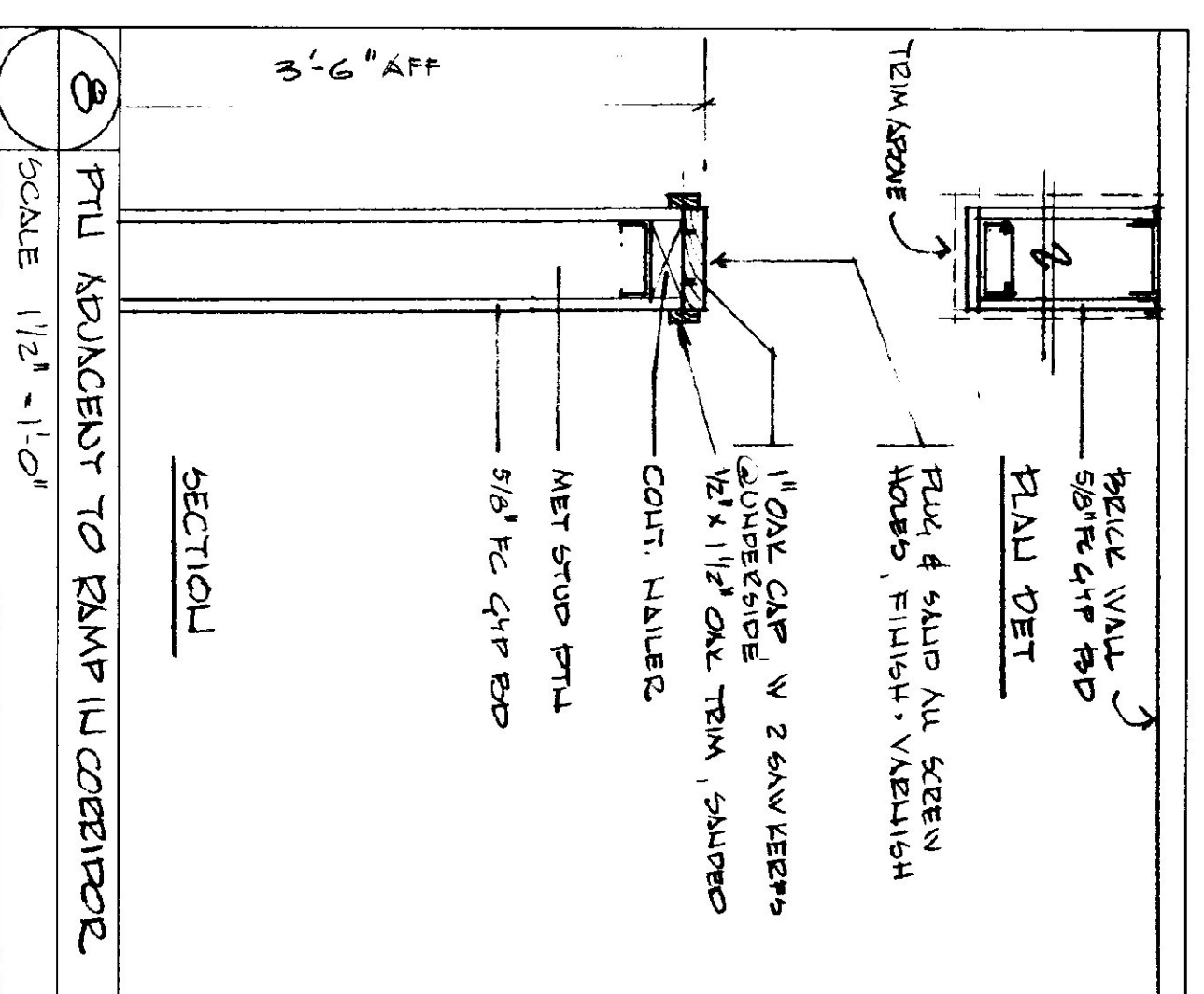
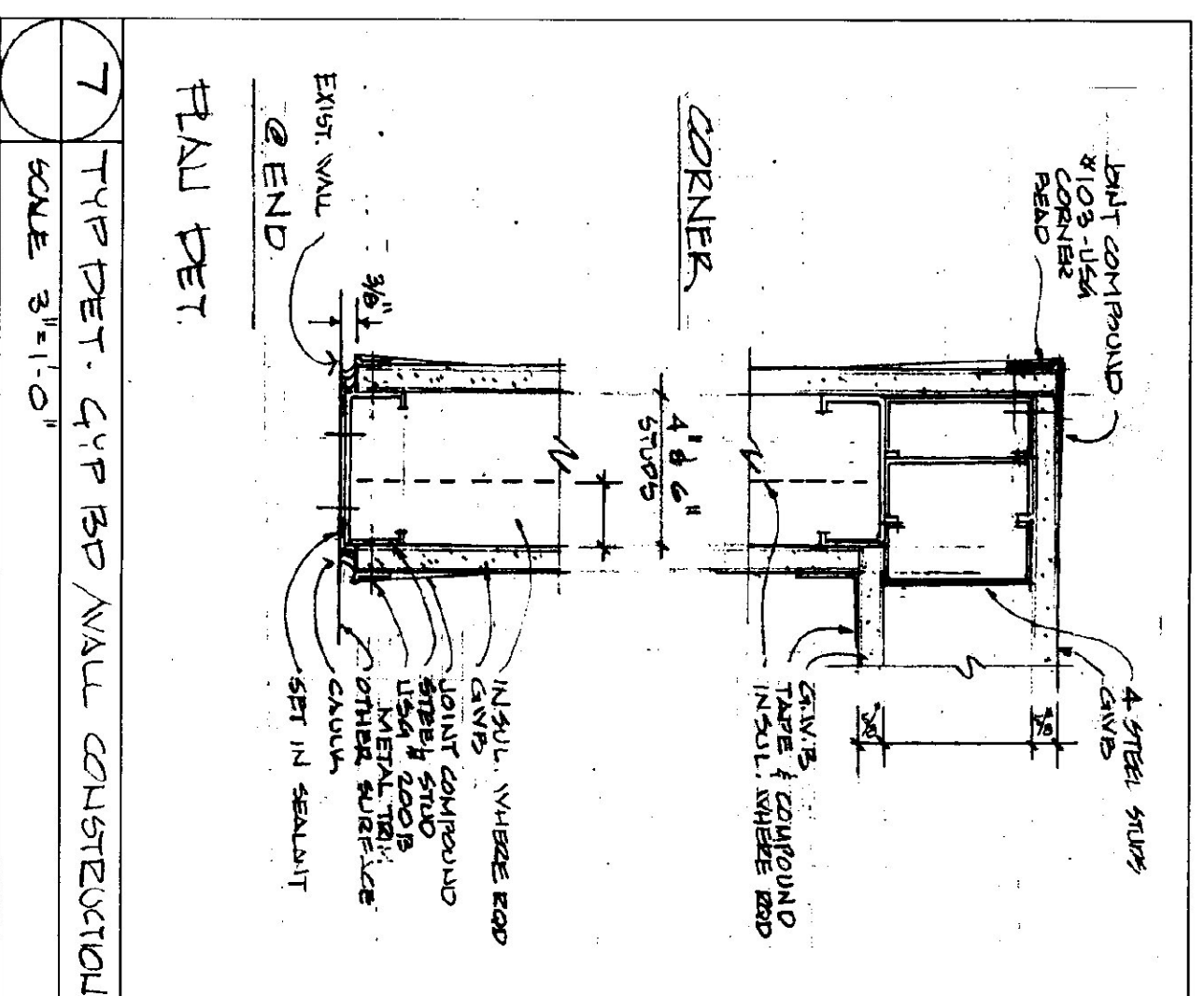
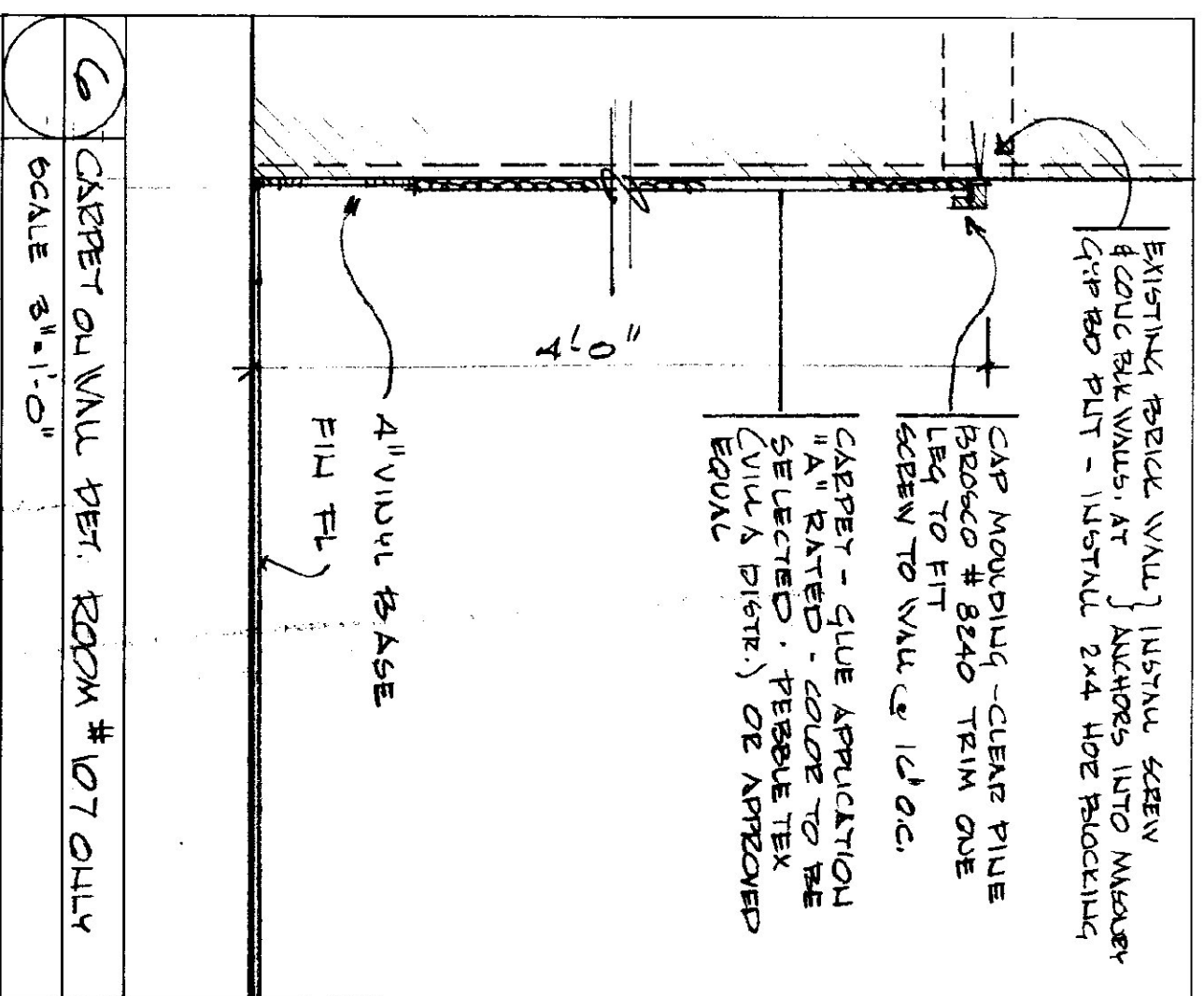
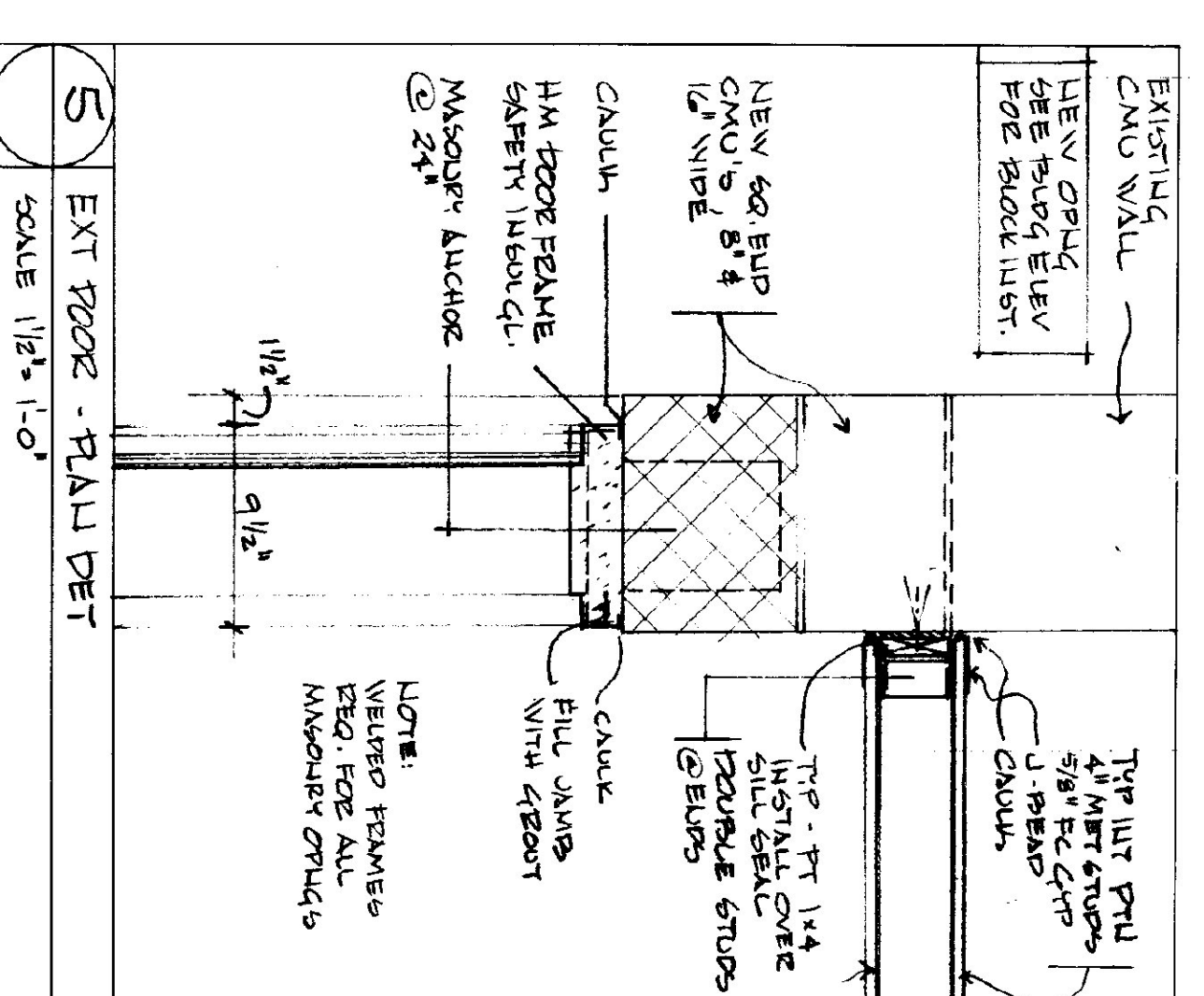
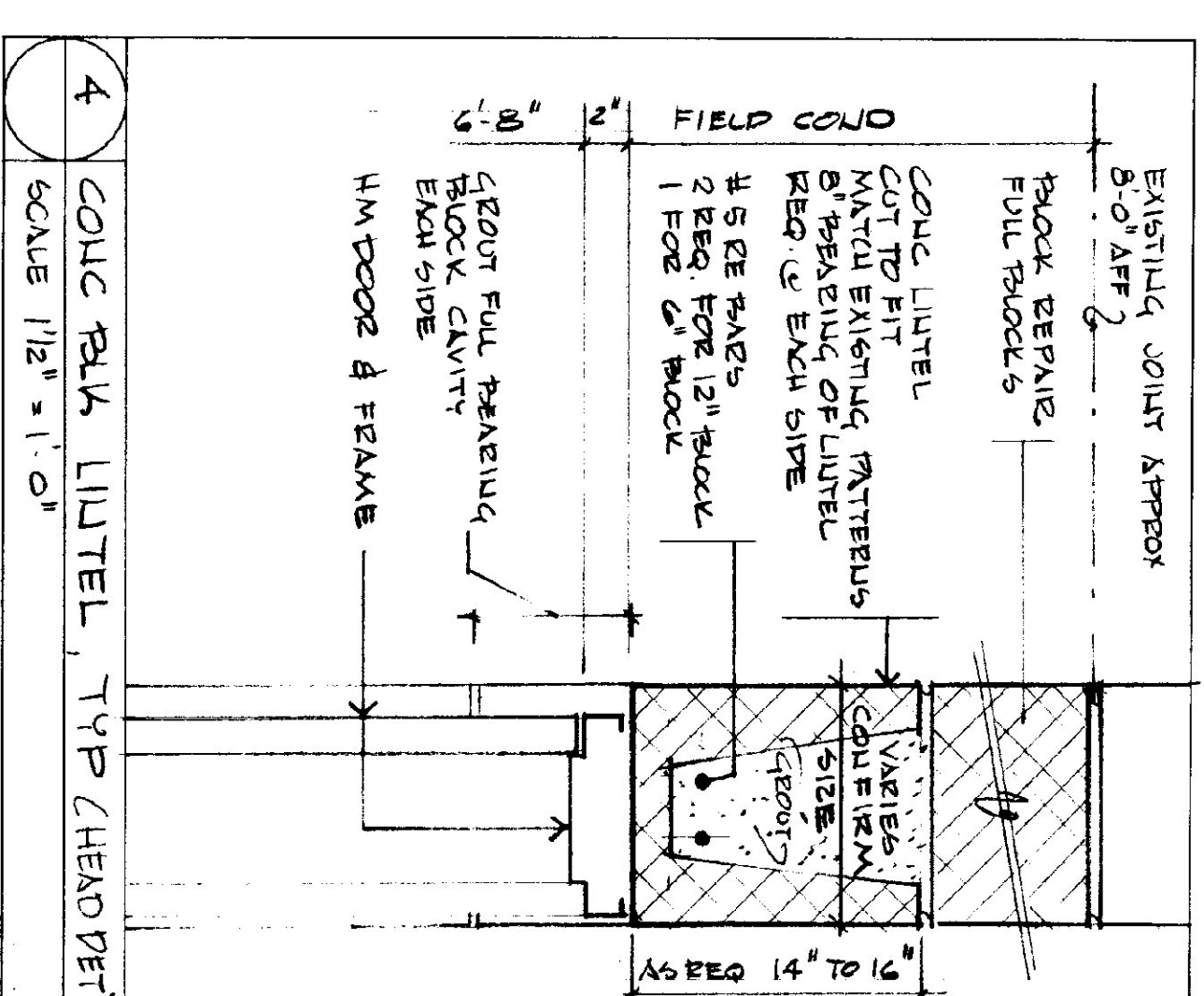
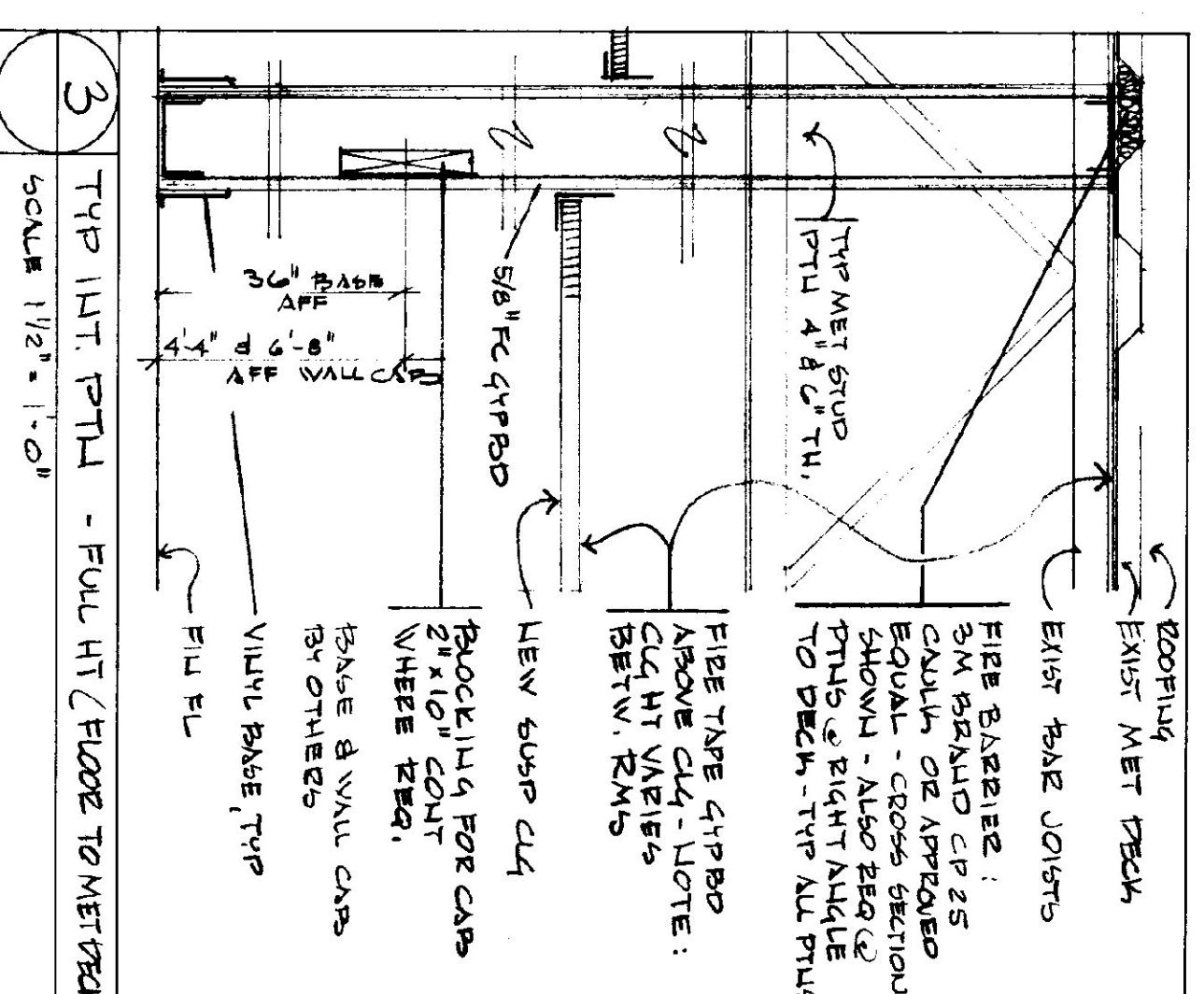
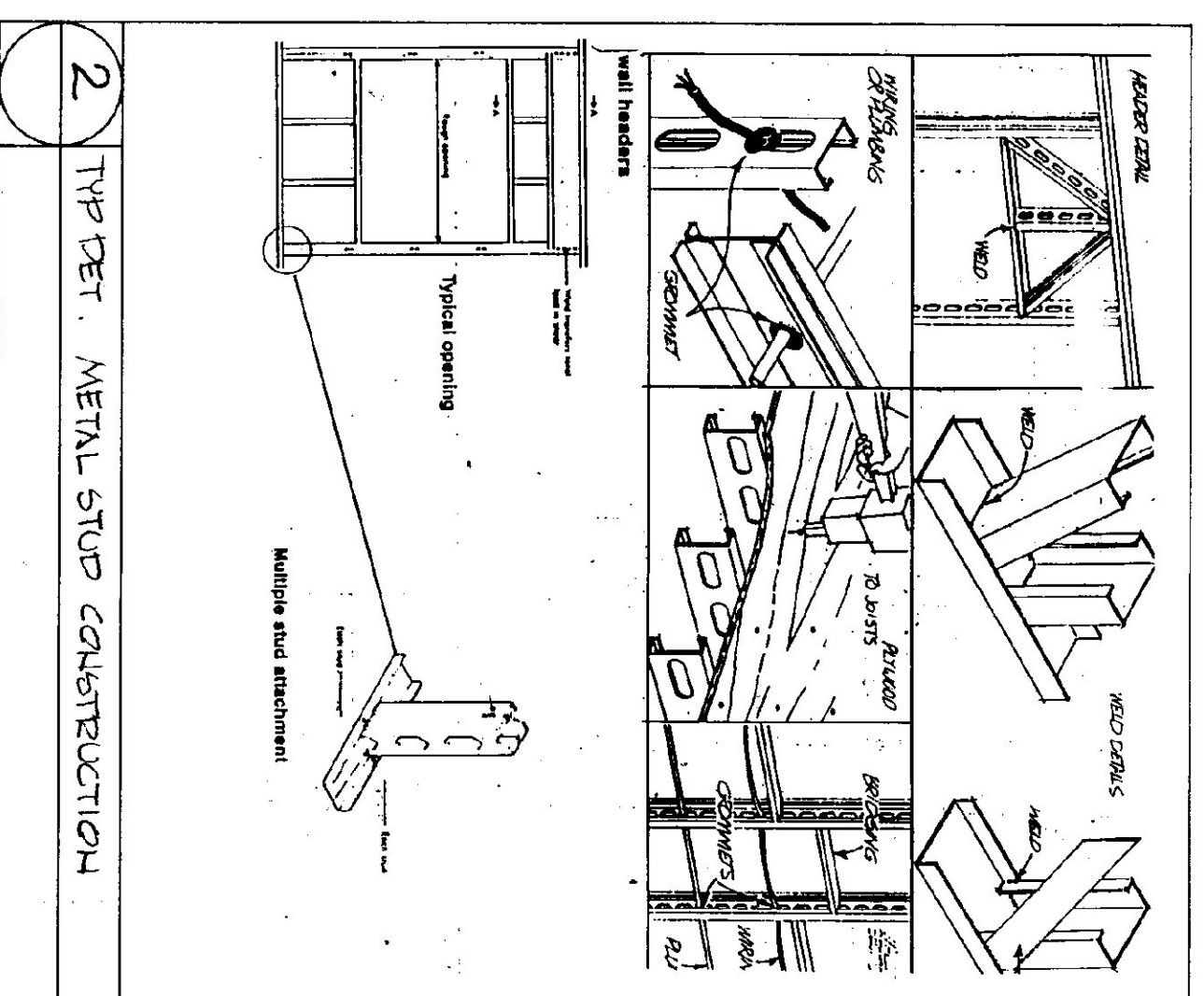
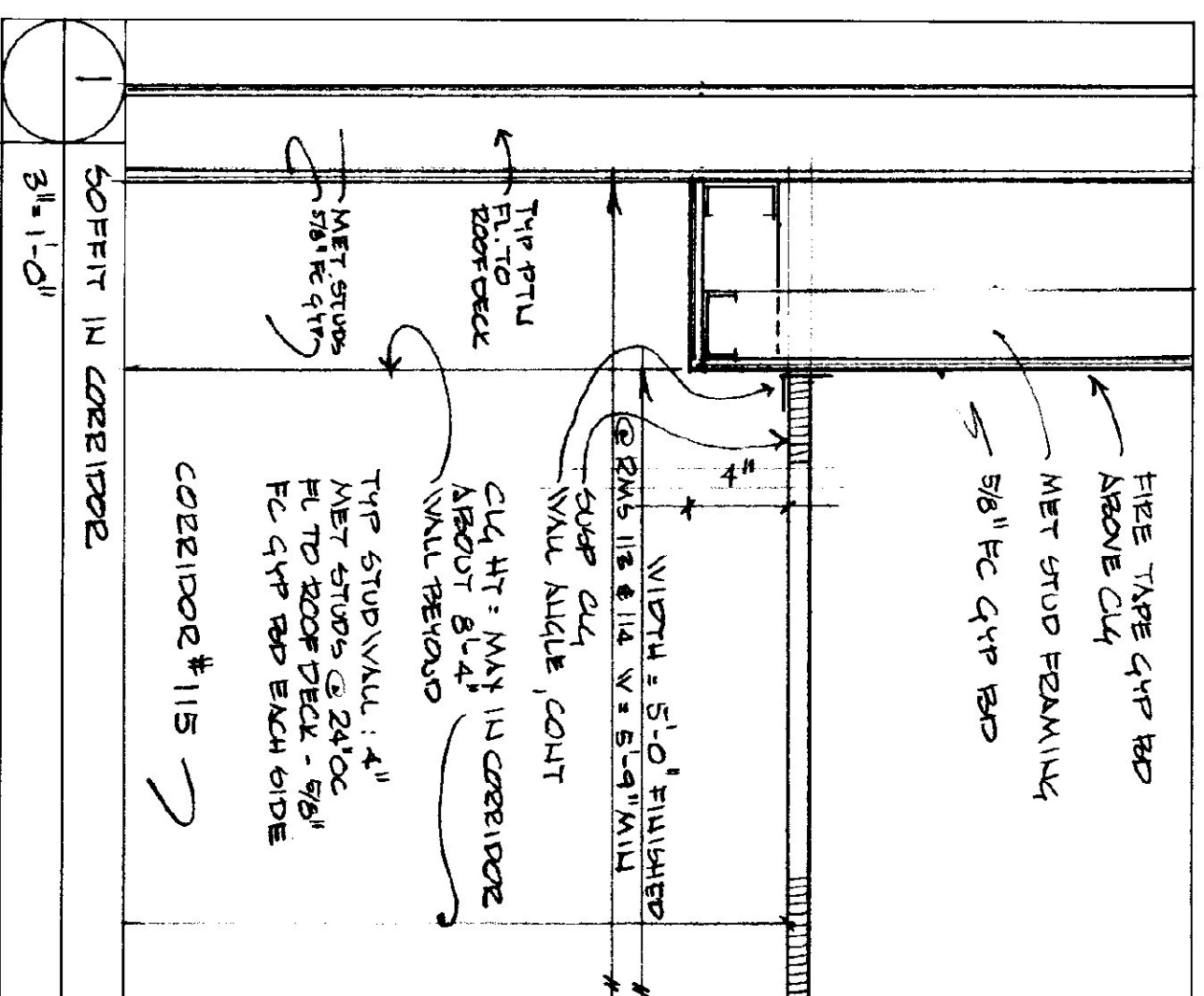
PHASE III



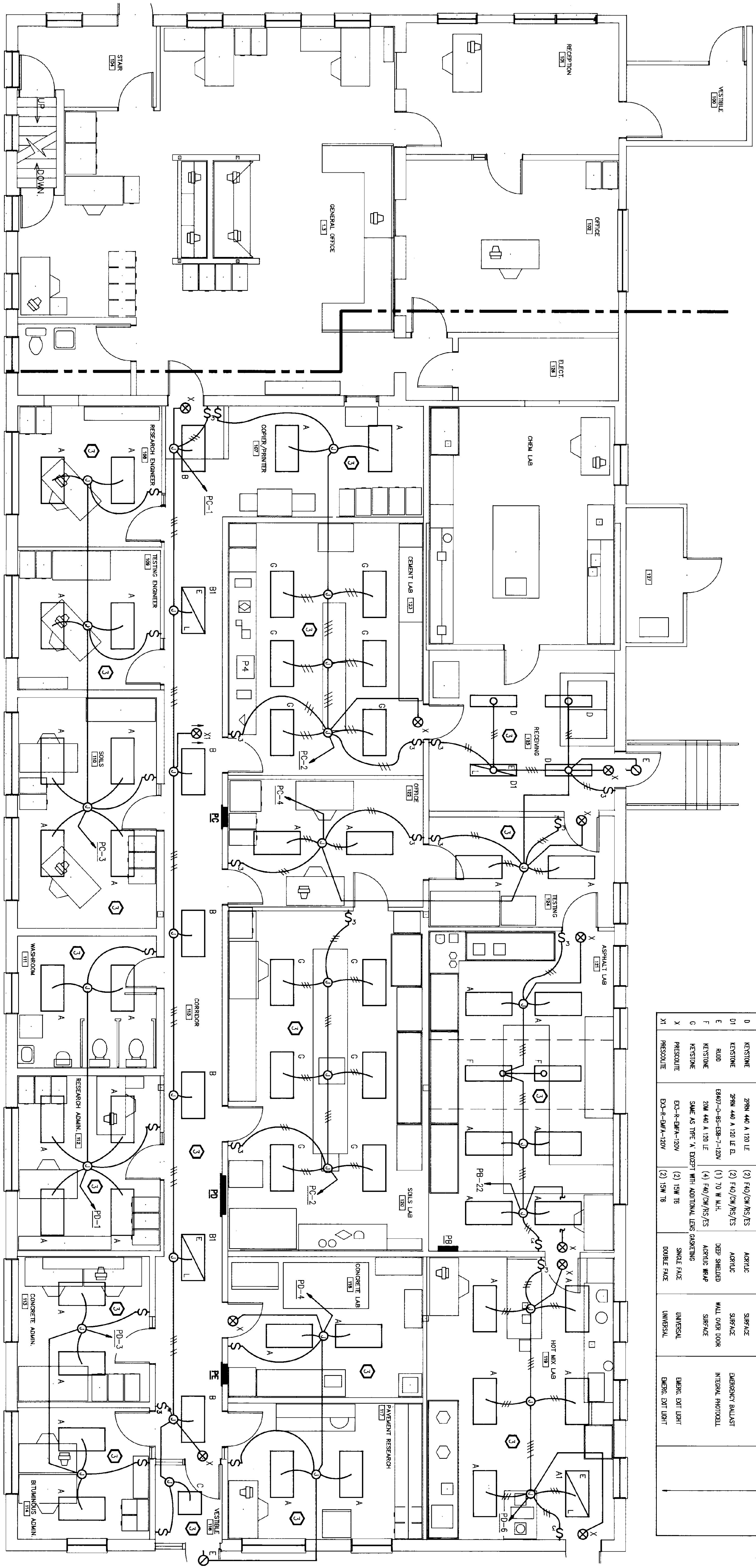
Jonson Design, Inc.
FRED KELL, ARCHITECT
P.O. BOX 55 - SO. VERMONT, VT 05476
(802) 254-2500

DOOR
SCHEDULE &
DETAILS

DATE: 1/10/91
DWG. NO. D6



LIGHTING FIXTURE SCHEDULE							
TYP	MANUFACTURER	CAT. No.	LAMPS	DIFFUSER	MOUNTING	REMARKS	ALTERNATE MFR'S.
A	KESTONE	2J 440 EDA 120 LE	(4) F40/CW/RS/ES	ACRYLIC	RECESSED GRID	EMERGENCY BALLAST	DAVARRITE, KEENE, METALUX
A1	KESTONE	2J 440 EDA 120 LE EL	(4) F40/CW/RS/ES	ACRYLIC	RECESSED GRID	EMERGENCY BALLAST	
B	KESTONE	2SM 340 EDA 120 WH LE	(3) F40/CW/RS/ES	ACRYLIC	SURFACE	EMERGENCY BALLAST	
B	KESTONE	2SM 340 EDA 120 WH LE EL	(3) F40/CW/RS/ES	ACRYLIC	SURFACE	EMERGENCY BALLAST	
C	KESTONE	1U1 240 EDA 120 LE	(2) F40L/CW/RS	ACRYLIC	RECESSED GRID		
D	KESTONE	2PRN 440 A 120 LE	(2) F40/CW/RS/ES	ACRYLIC	SURFACE	EMERGENCY BALLAST	
D1	KESTONE	2PRN 440 A 120 LE EL	(2) F40/CW/RS/ES	ACRYLIC	SURFACE	INTERNAL PHOTOCELL	
E	RUDO	EH407-0-B5-ESB-7-120V	(1) 70 W M.H.	DEEP SHIELDED	WALL OVER DOOR		
F	KESTONE	20M 440 A 120 LE	(4) F40/CW/RS/ES	ACRYLIC W/MP	SURFACE		
G	KESTONE	SAME AS TYPE 'A' EXCEPT WITH ADDITIONAL LENS GRACKENING		ACRYLIC			
X	PRESCOLITE	EQ-R-EWFA-120V	(2) 15W T8	SINGLE FACE	UNIVERSAL	EMERG. EXIT LIGHT	
X1	PRESCOLITE	EQ-R-EWFA-120V	(2) 15W T8	DOUBLE FACE	UNIVERSAL	EMERG. EXIT LIGHT	



PHASE III CONTRACT LIMIT

LIGHTING PLAN

1/4" = 1'-0"



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GOVERNOR

JOHN A. ZAMPIERI
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PHASE III

Janson Design, Inc.
FRED KELL, ARCHITECT
P.O. BOX 55 - BOSTON ROAD, WATERBURY, VT 05678
(802) 244-5800

PHASE III FLOOR PLAN

DATE: 1-10-91
DWG. NO. E-6

DEMOLITION NOTES:

- 1

REMOVE EXISTING PANEL COMPLETE WITH FEEDER AND BRANCH CKT. CONDUIT AND WIRING BACK TO SOURCE.
- 2

REMOVE EXISTING PANEL AND REPLACE WITH NEW AS SHOWN ON PLAN. CIRCUIT AS SHOWN ON NEW PANEL SCHEDULE DWG. E9 (PANEL 7B)
- 3

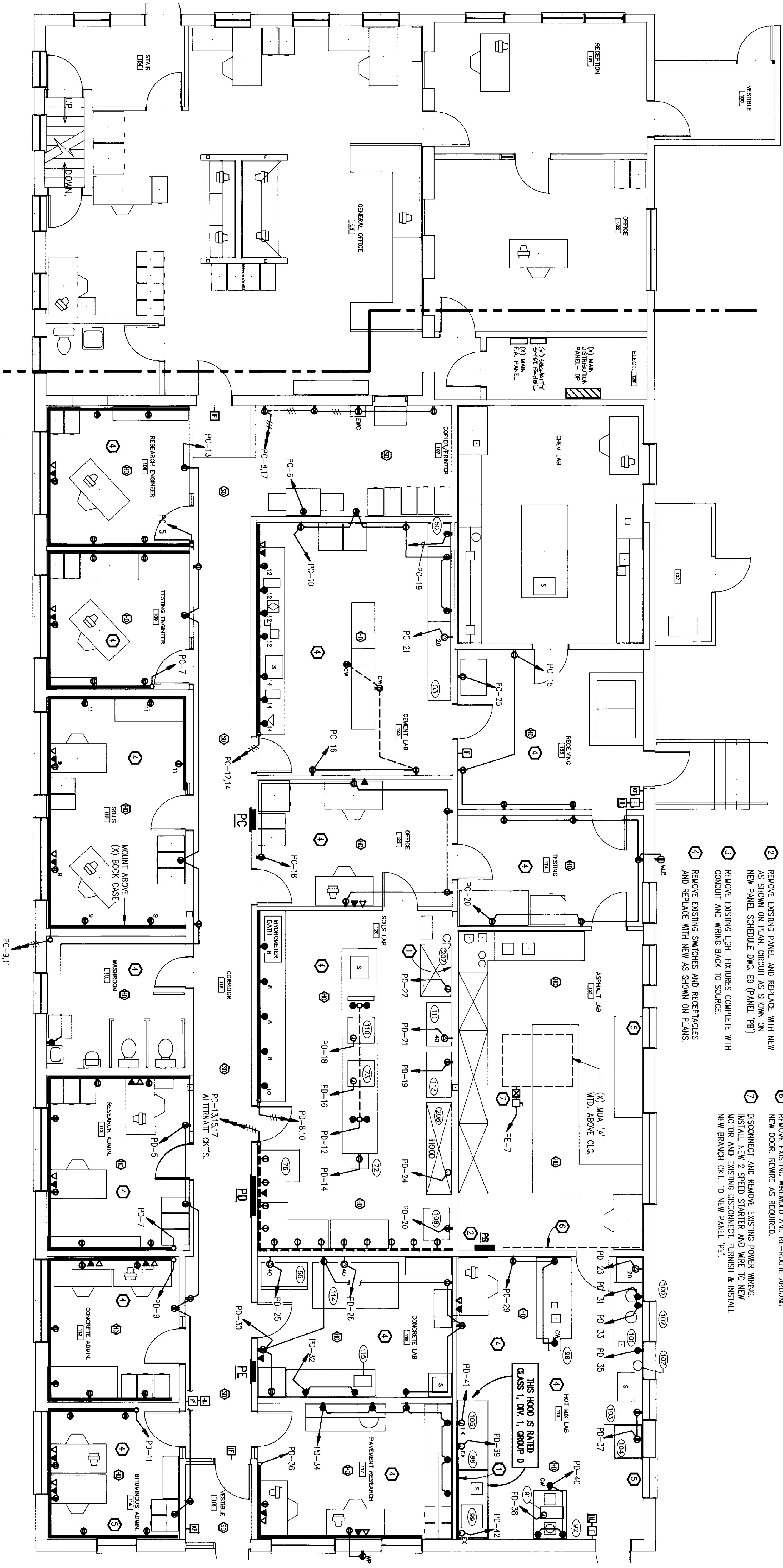
REMOVE EXISTING LIGHT FIXTURES COMPLETE WITH CONDUIT AND WIRING BACK TO SOURCE.
- 4

REMOVE EXISTING SWITCHES AND RECEPTACLES AND REPLACE WITH NEW AS SHOWN ON PLANS.
- 5

REMOVE RECEPTACLE FOR EXISTING A/C UNIT COMPLETE WITH CONDUIT AND WIRING BACK TO SOURCE.
- 6

REMOVE EXISTING WIREMOLD AND RE-ROUTE AROUND NEW DOOR. REMIRE AS REQUIRED.
- 7

DISCONNECT AND REMOVE EXISTING POWER WIRING. INSTALL NEW 2 SPEED STARTER AND WIRE TO NEW MOTOR AND EXISTING DISCONNECT. FURNISH & INSTALL NEW BRANCH CKT. TO NEW PANEL. PE.



PHASE III CONTRACT
LIMIT

POWER PLAN

1/4" = 1'-0"



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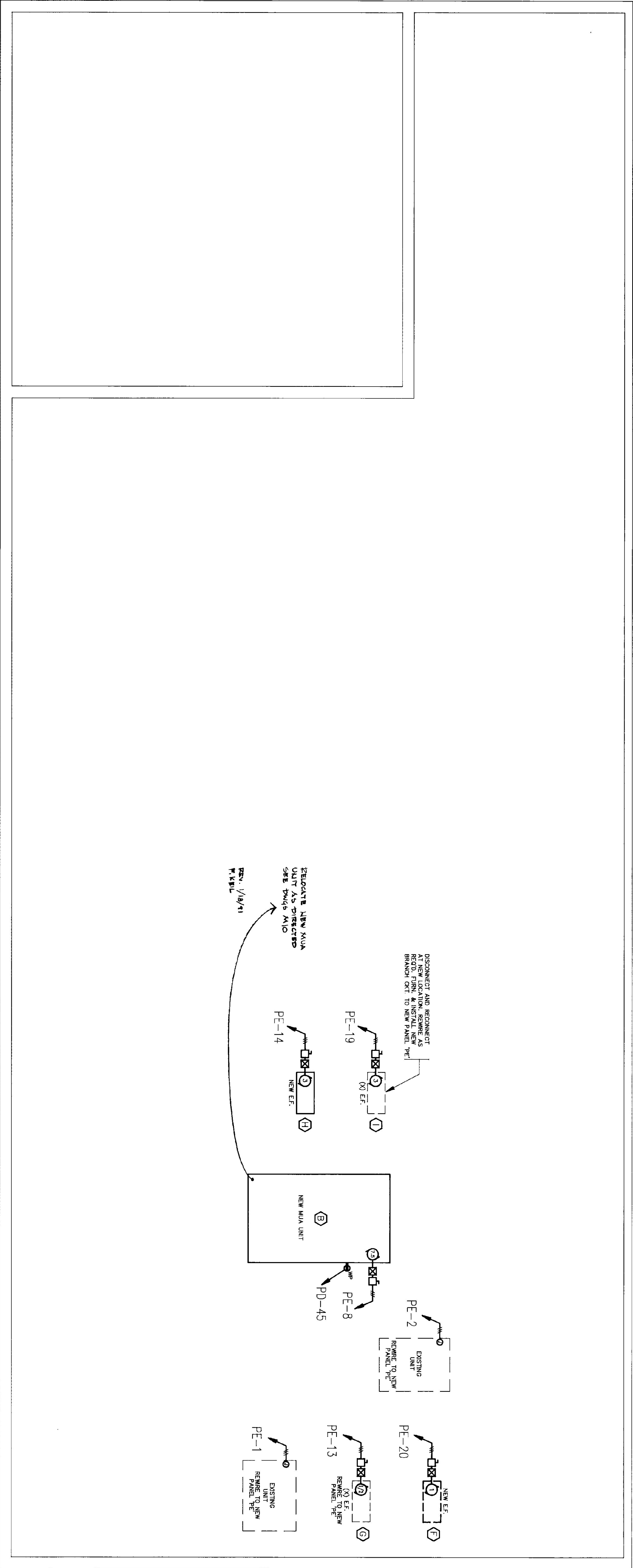
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PHASE III FLOOR PLAN

FIRST FLOOR
STATE HIGHWAY LAB

DATE:
1-10-91

DWG. NO.
E-7

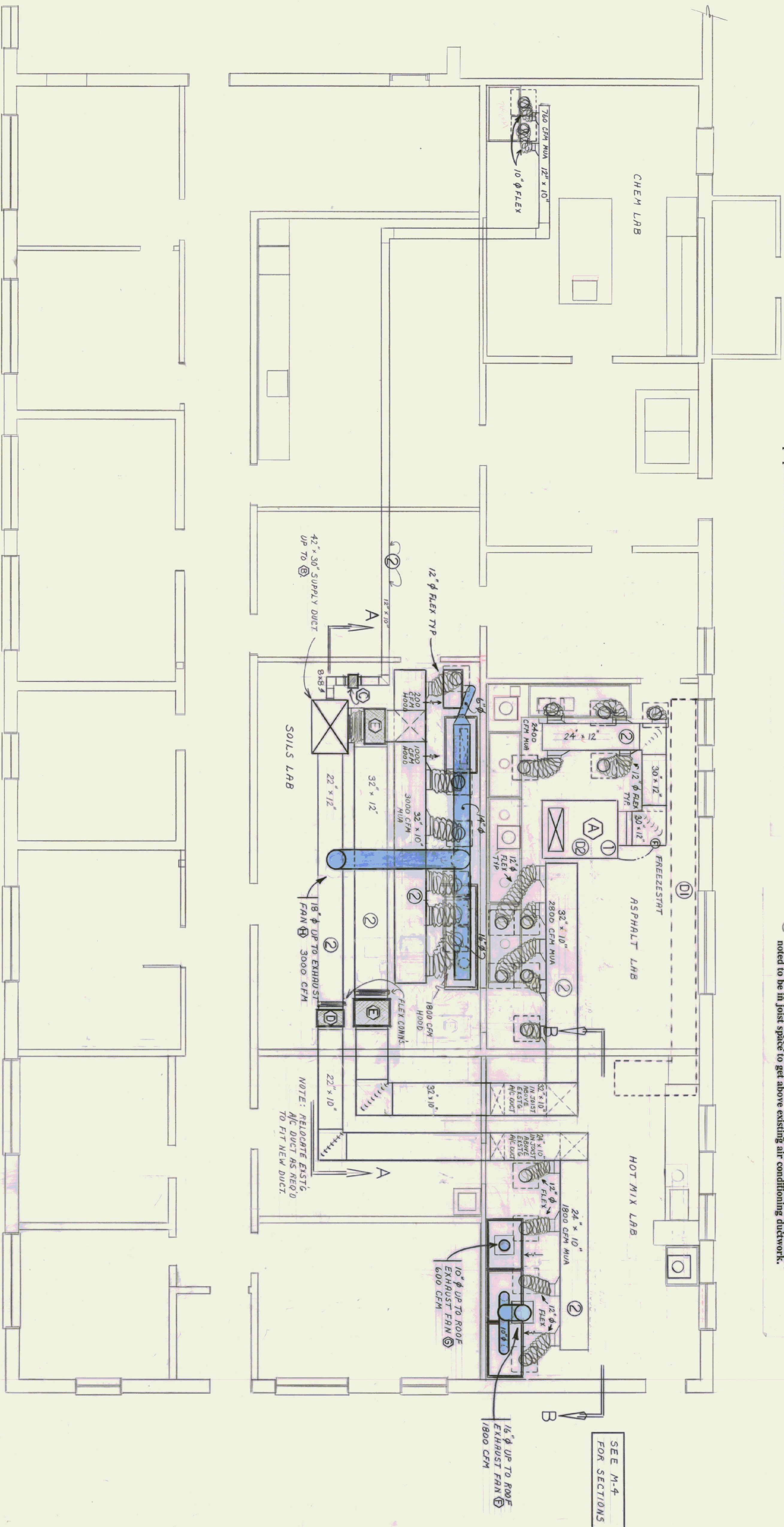


DEMOLITION NOTES:

- D1 Remove all existing ductwork connected to existing MUA unit "A".
D2 Remove all pneumatic controls and motor in existing MUA unit "A" in preparation for new electronic controls.

NEW MECHANICAL WORK NOTES:

- 1 Existing Make-Up-Air Unit: Modify ductwork and controls as shown on page 10. Replace all pneumatic controls with electronic. Replace motor with two-speed, two-winding motor.
2 New Make-Up-Air Supply ductwork. Run tight to roof joists except where noted to be in joist space to get above existing air conditioning ductwork.



EAST END FIRST FLOOR PLAN

Scale: 1/4" = 1'-0"

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PHASE III FLOOR PLAN

FIRST FLOOR

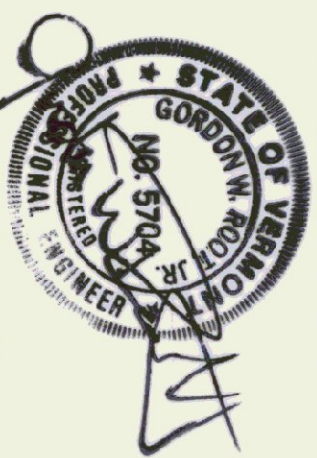
MECHANICAL

VENTILATION PLAN

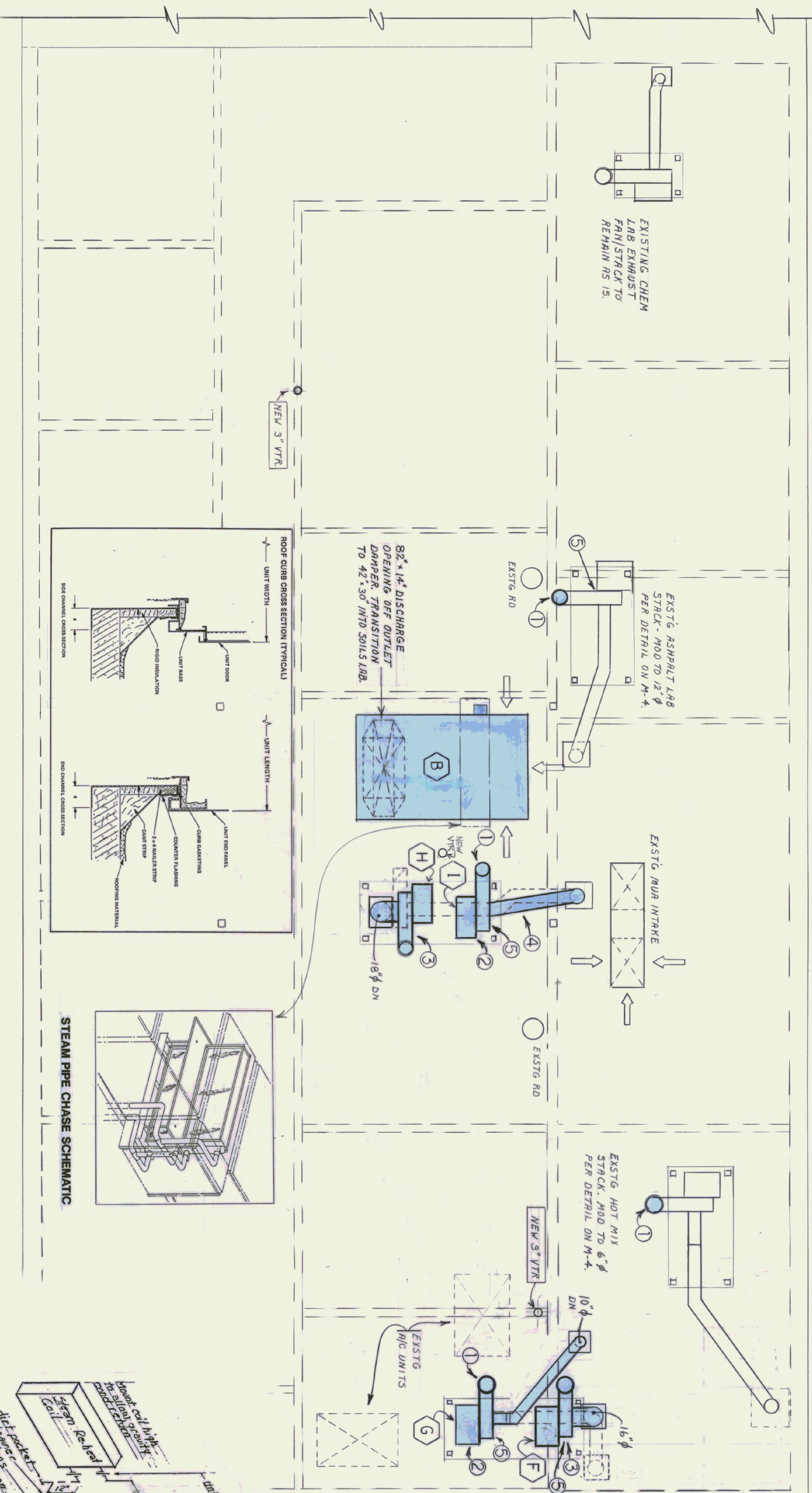
1-10-91

M-9

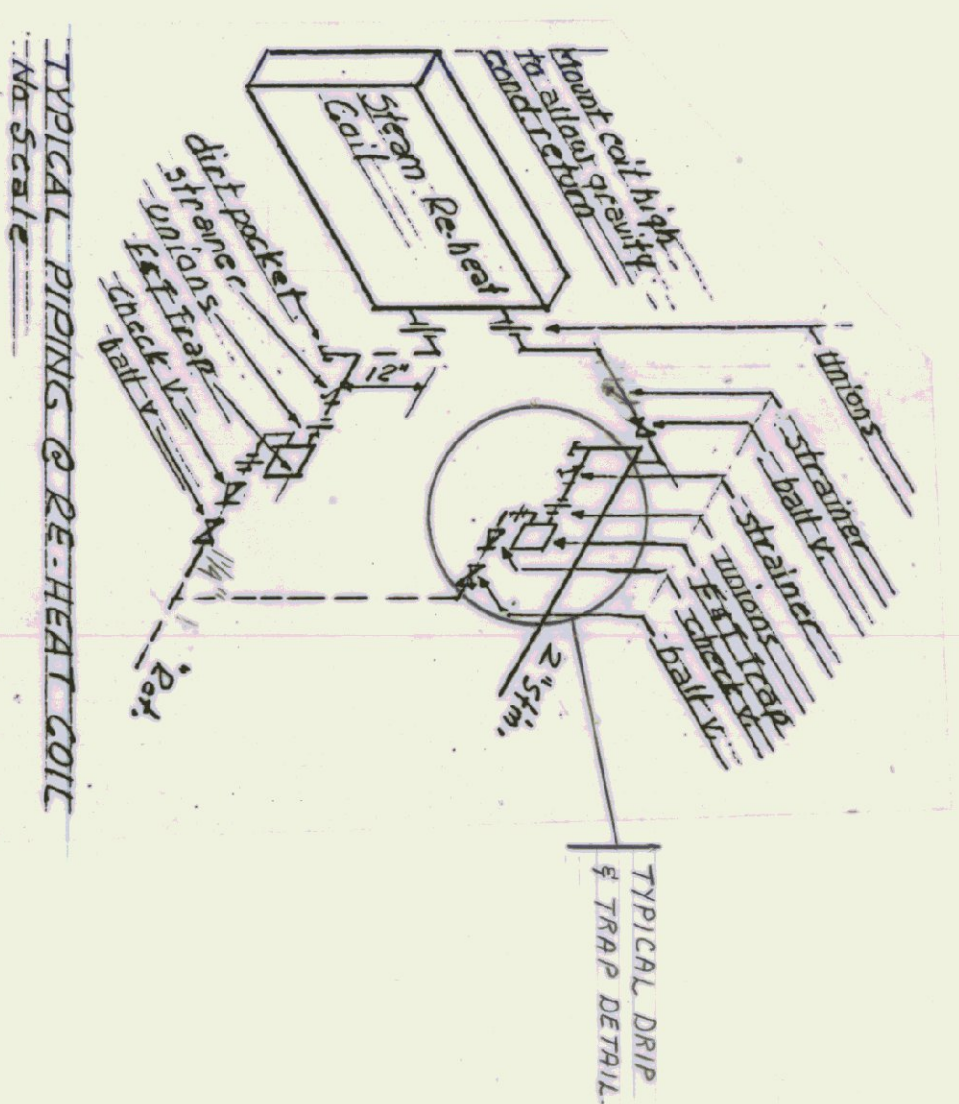
1 OF 4



- MECHANICAL WORK NOTES:**
- 1 Existing exhaust stack to be modified per stack detail on M-4.
 - 2 Existing exhaust fan to be re-used.
 - 3 New exhaust fan and stack per details and schedule on M-4.
 - 4 Modify existing Asphalt lab exhaust duct to suit new location of fan "Y".
 - 5 Modify fan to Non-Spark Construction by replacing existing ferrous bell and wheel and replacing with aluminum bell and wheel. Consult Buffalo Forge.



NOTE:
SEE STACK DESIGN
DETAILS & CHART
ON M-4.



ROOF PLAN

Scale 1/4" = 1'-0"

MECHANICAL CONSULTANT:

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PHASE III FLOOR PLAN

ROOF

1-10-91

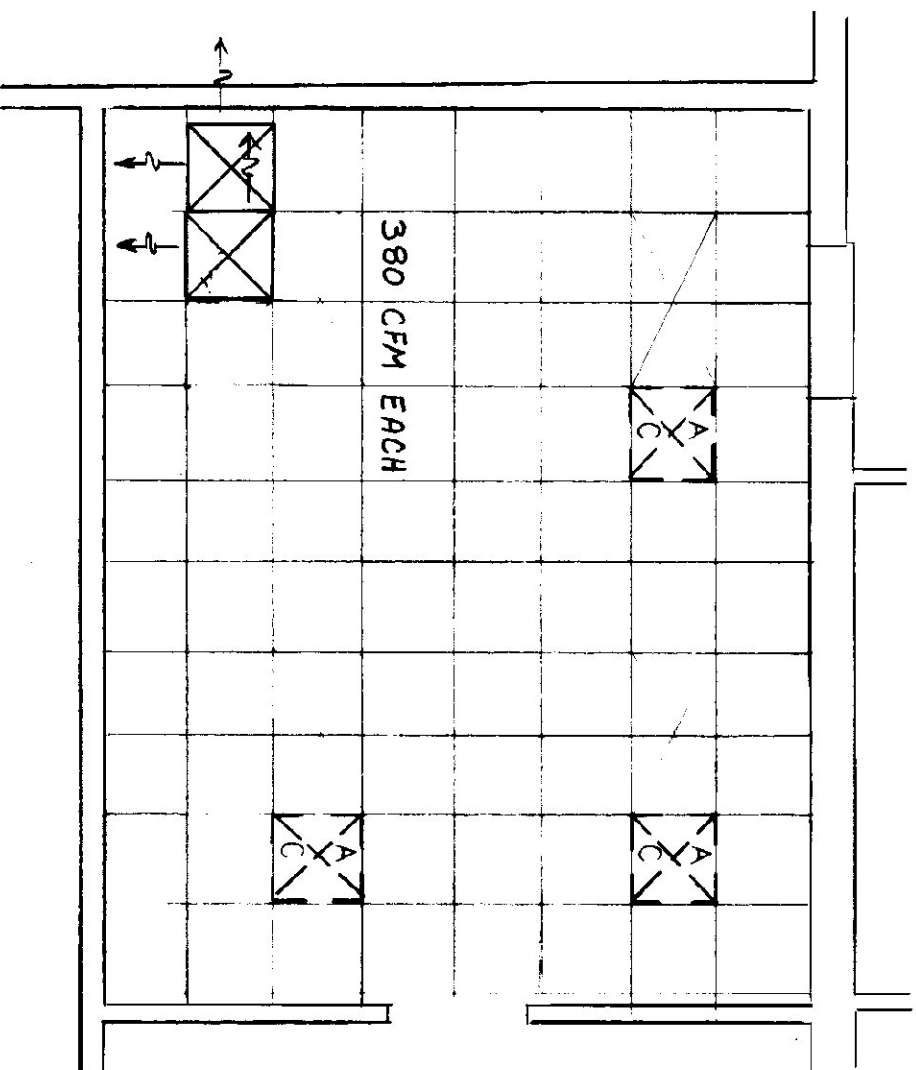
MECHANICAL PLAN

M-10

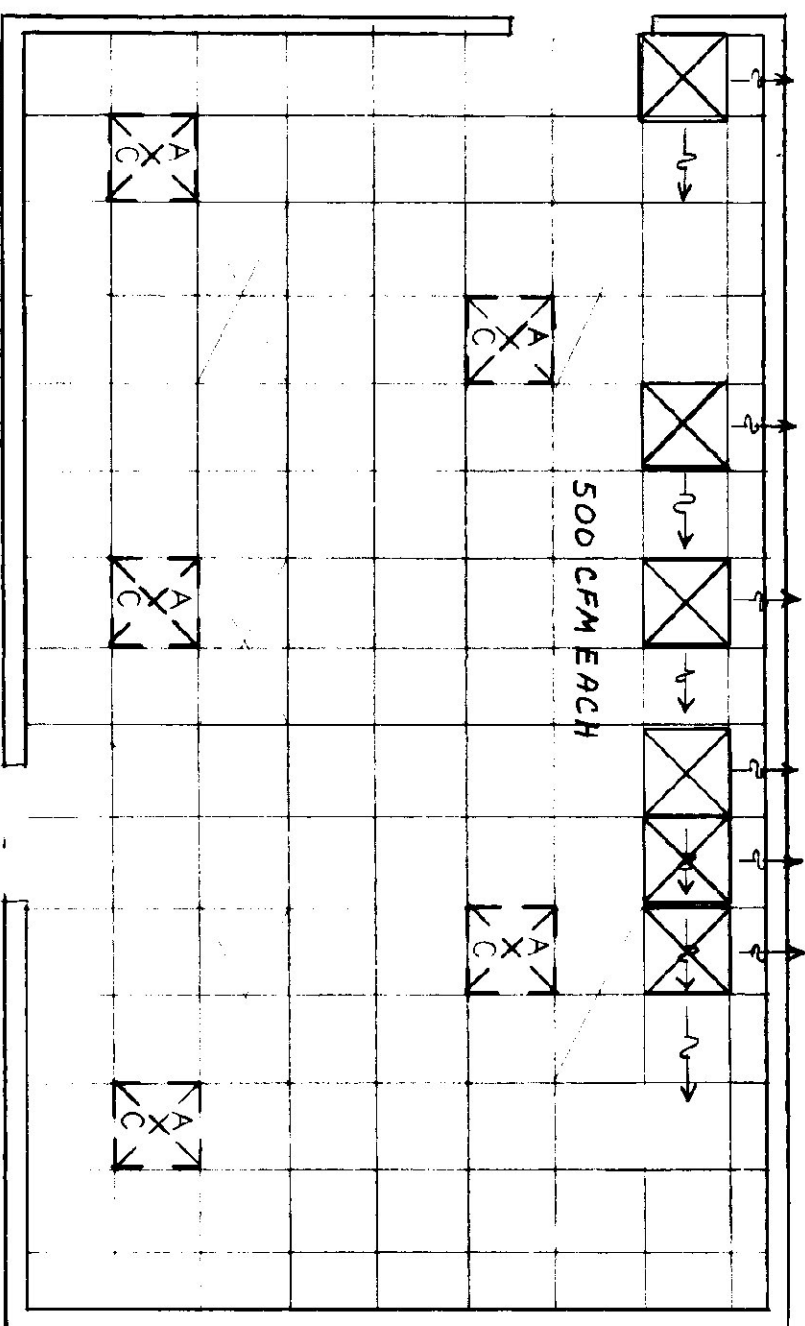
2 OF 4



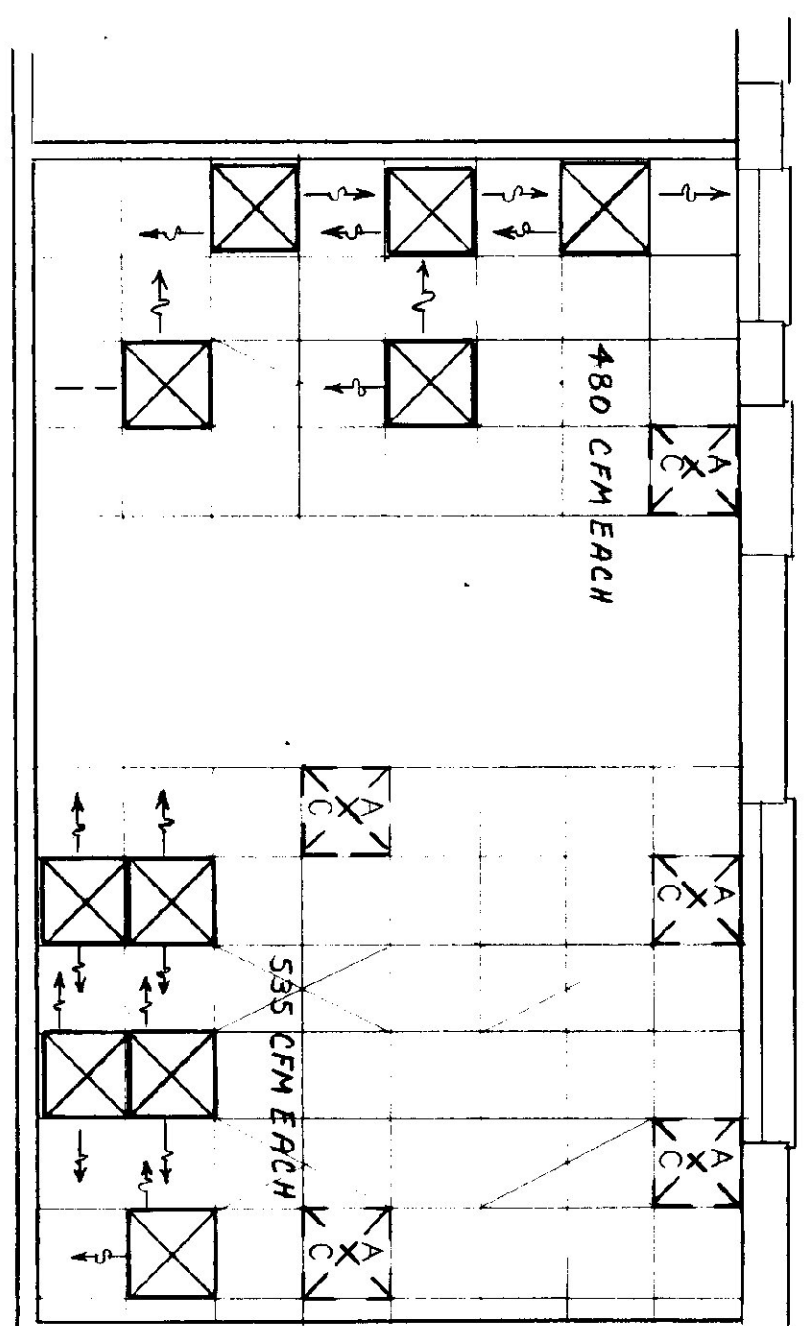
NOTE:
ALL SUPPLY DIFFUSERS TO BE 2 WAY AS SHOWN 18"X18" NECK FOR ALL LABS EXCEPT CHEM LAB (2'X12').
DIFFUSERS TO BE 2'X2' TO FIT LAY IN CEILING GRID. METAL/PAIR (OR EQUAL) SERIES 5000, MODEL M-6,
2-WAY AIR PATTERNS SC OR S2 AS SHOWN ON PLANS. SUPPLY IN BAKED ENAMEL FINISH WITH DAMPER
& 12" Ø ROUND TRANSITIONS (10" FOR CHEM LAB).



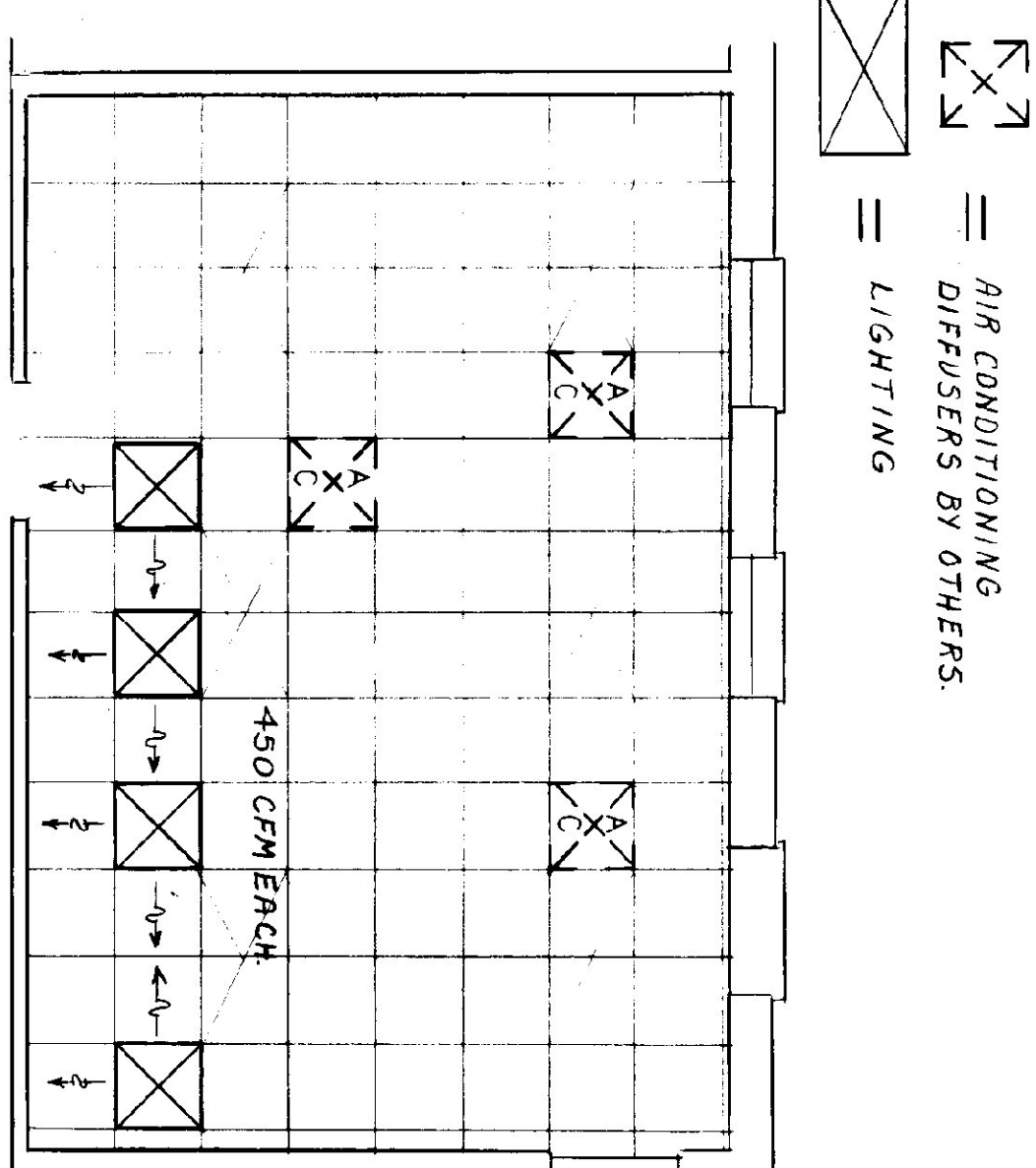
CHEM LAB



SOILS LAB



ASPHALT LAB



HOT MIX LAB

REFLECTED CEILING PLANS

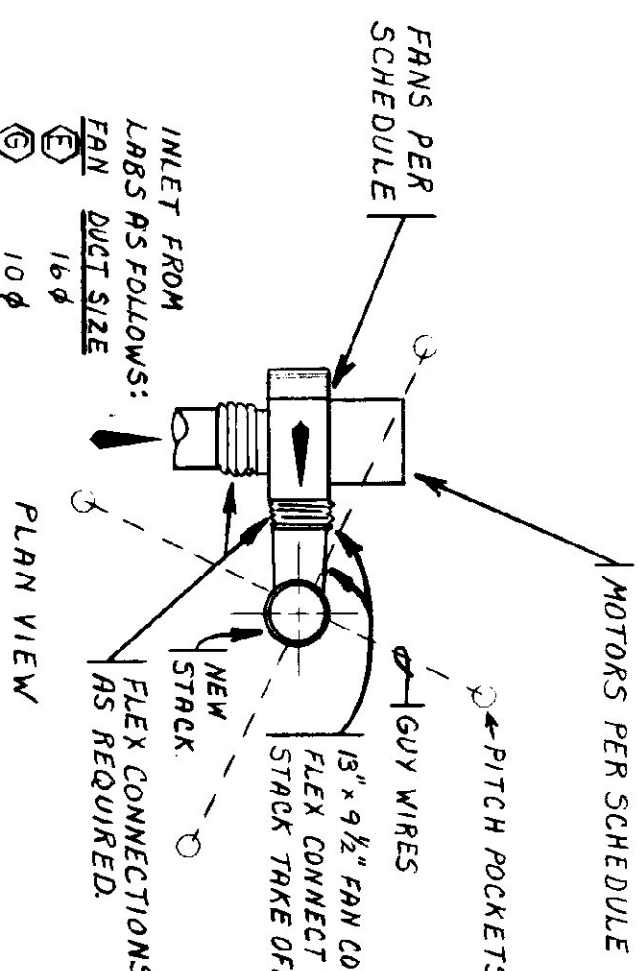
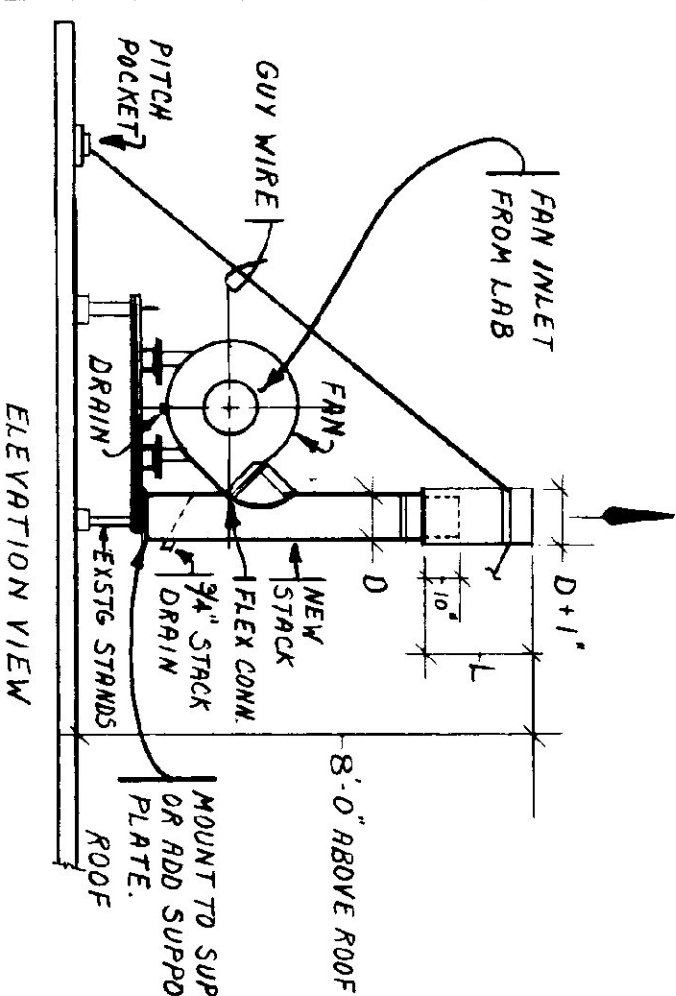
Scale: 1/4" = 1'-0"

NOTE: ALSO REFER TO ARCH.
DWGS FOR REFLECTED
CEILING PLANS

STACK & DUCT ABOVE ROOF
TO BE POLY VINYL COATED
DUCT (PCD) WITH 4 COATS ON
EXTERIOR ONLY (4X1) OR BOTH
EXTERIOR & INTERIOR (4X2).
PCD TO BE AS MANUFACTURED
BY FOREMOST MFG OR DEEPAVED
BY APPROVAL BY ENGINEER.

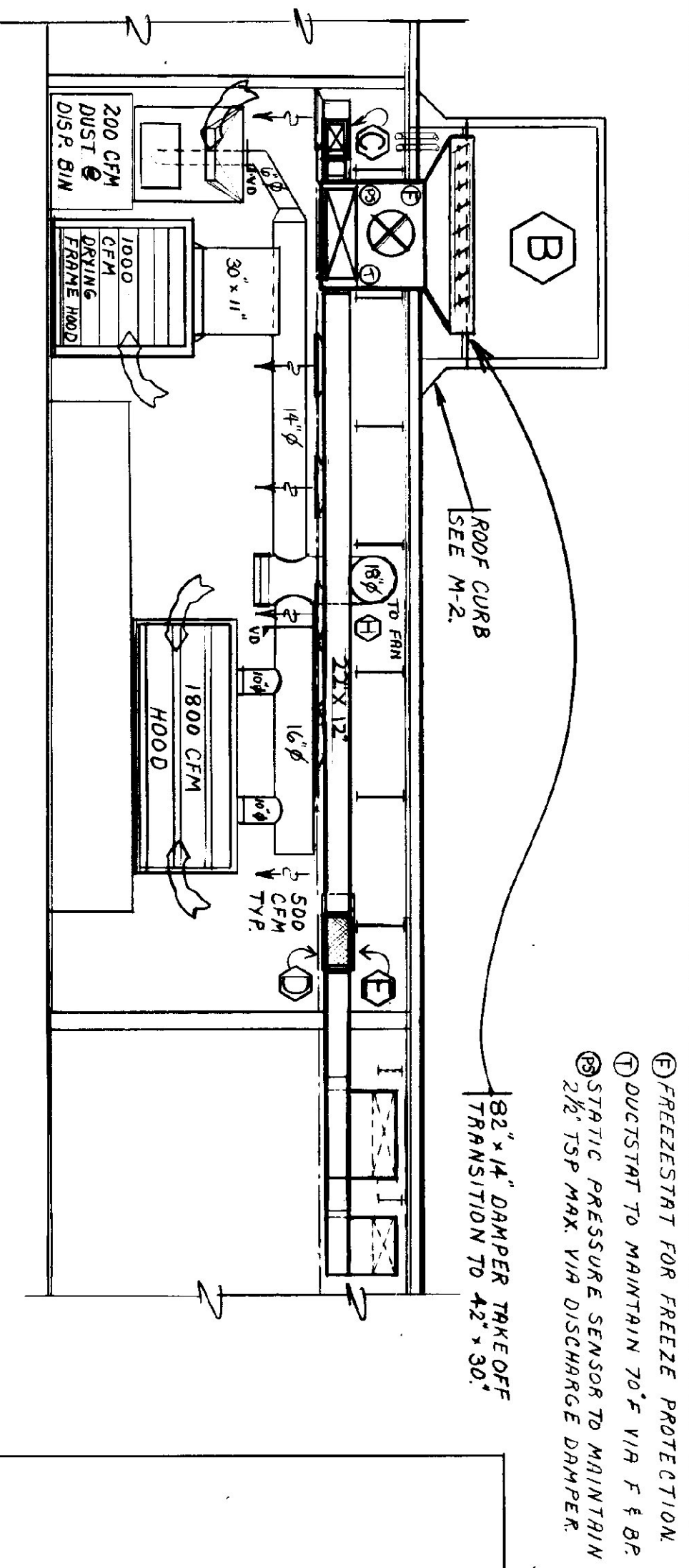
FAN	CFM	SERVING	NEW OR EXISTING ON ROOF	D	L	STACK MATERIAL
F	1800	HOT MIX LAB	NEW	10"	40"	PCD 4X2
G	600	HOT MIX LAB	EXISTG	7"	28"	PCD 4X2
H	3000	SOILS LAB	NEW	12"	48"	PCD 4X1
I	2800/3516	ASPHALT LAB	EXISTG	12"	48"	PCD 4X2
EXISTG	2600/400	ASPHALT LAB	EXISTG	12"	48"	PCD 4X2
EXISTG	600	HOT MIX LAB	EXISTG	6"	24"	PCD 4X1

* NOTE: ON EXISTING FAN STACKS: REMOVE EXISTG. RECTANGULAR
STACK & REPLACE WITH NEW STACK PER DRAWING.



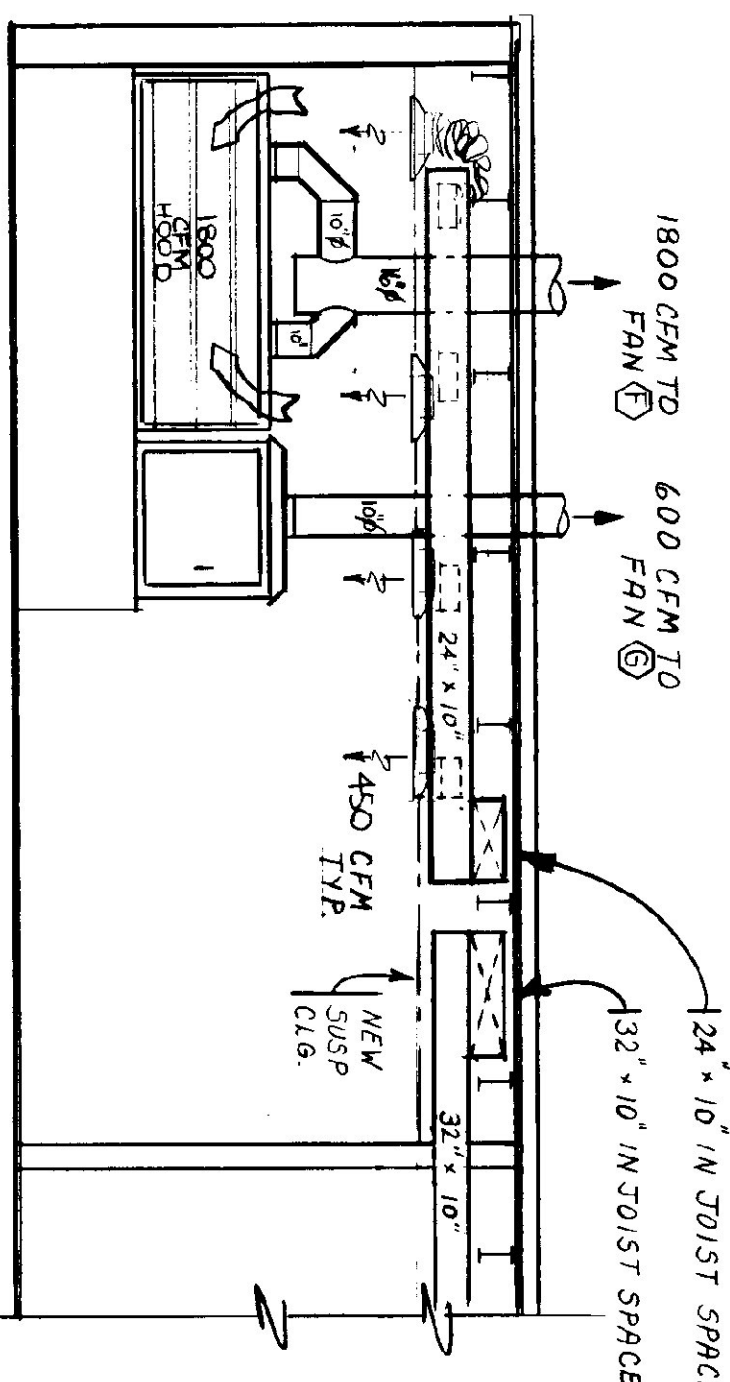
ROOF FANS & STACK DETAILS

No Scale



SOILS LAB ELEVATION, SECTION A-A

Scale: 1/4" = 1'-0"



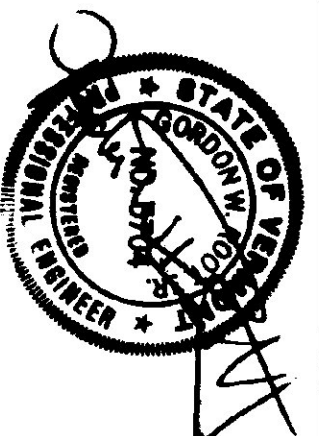
HOT MIX LAB ELEVATION, SECTION B-B

Scale: 1/4" = 1'-0"

MARK	TYPE	MANUFACTURER	MODEL	CHARACTERISTICS	ELECTRICAL	NOTES
A	MAKE UP AIR UNIT	EXISTING		2400/1200 CFM MACOY EXIST UNIT CONTROLS PER DRAWINGS & SPECS.	REC. USE EXISTG 2 SPEED 1 HP	SEE CONTROL SECTION OF SPECS.
B	ROOF MOUNTED AIR HANDLER	MACOY	RDS-800B	6300 CFM @ 2.5" ESP 676,000 BTU/H STEAM COIL W/SUPPLY DAMPER, FACE & BYPASS, TWIN SUPPLY FANS 15" X 15"	7-1/2 HP, 1180 RPM 208 V, 3 Ø, 60 HZ	REFER TO SUPPLY SECTION OF SPECS.
C	VAV BOX	ENVIRO-TEC	SSD-II #8	760 CFM - CHEM LAB	24 V SIGNAL FROM HOOD TO ACTIVATE	SEE CONTROL SECTION OF SPECS.
D	VAV BOX	ENVIRO-TEC	SSD-II #14	1800 CFM - HOT MIX LAB	24 V SIGNAL FROM HOOD TO ACTIVATE	SEE CONTROL SECTION OF SPECS.
E	VAV BOX	ENVIRO-TEC	SSD-II #18	2800 CFM - ASPHALT LAB 3000 CFM - SOILS LAB	24 V SIGNAL FROM HOOD TO ACTIVATE	SEE CONTROL SECTION OF SPECS.
F	EXHAUST FAN HOT MIX HOOD	BUFFALO FORGE	BL 245	1800 CFM @ 1" TSP STAINLESS STEEL WHEEL	1 HP, 2000 RPM 208 V, 3 Ø, 60 HZ	OWNER TO SUPPLY MECH CONT. TO INSTALL.
G	EXHAUST FAN HOT MIX OVEN	BUFFALO FORGE	BL 245	600 CFM @ 1/2" TSP READJUST RPM/CFM ON EXISTG FAN.	1/2 HP, 1000 RPM 208 V, 3 Ø, 60 HZ	OWNER TO SUPPLY MECH CONT. TO INSTALL.
H	EXHAUST FAN SOILS LAB	BUFFALO FORGE	BL 245	3000 CFM @ 2-1/2" TSP	3 HP, 3500 RPM 208 V, 3 Ø, 60 HZ	OWNER TO SUPPLY MECH CONT. TO INSTALL.
I	EXHAUST FAN ASPHALT LAB	EXISTING	BL 245	RELOCATE ONLY NO OTHER FAN MOVS REQD.	EXISTING	MOD STACK PER DWG.

MECHANICAL CONSULTANT:

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REFLECTED CEILING PLANS
SCHEDULES

1-10-91

DETAILS & RISERS

M-12
4 OF 4