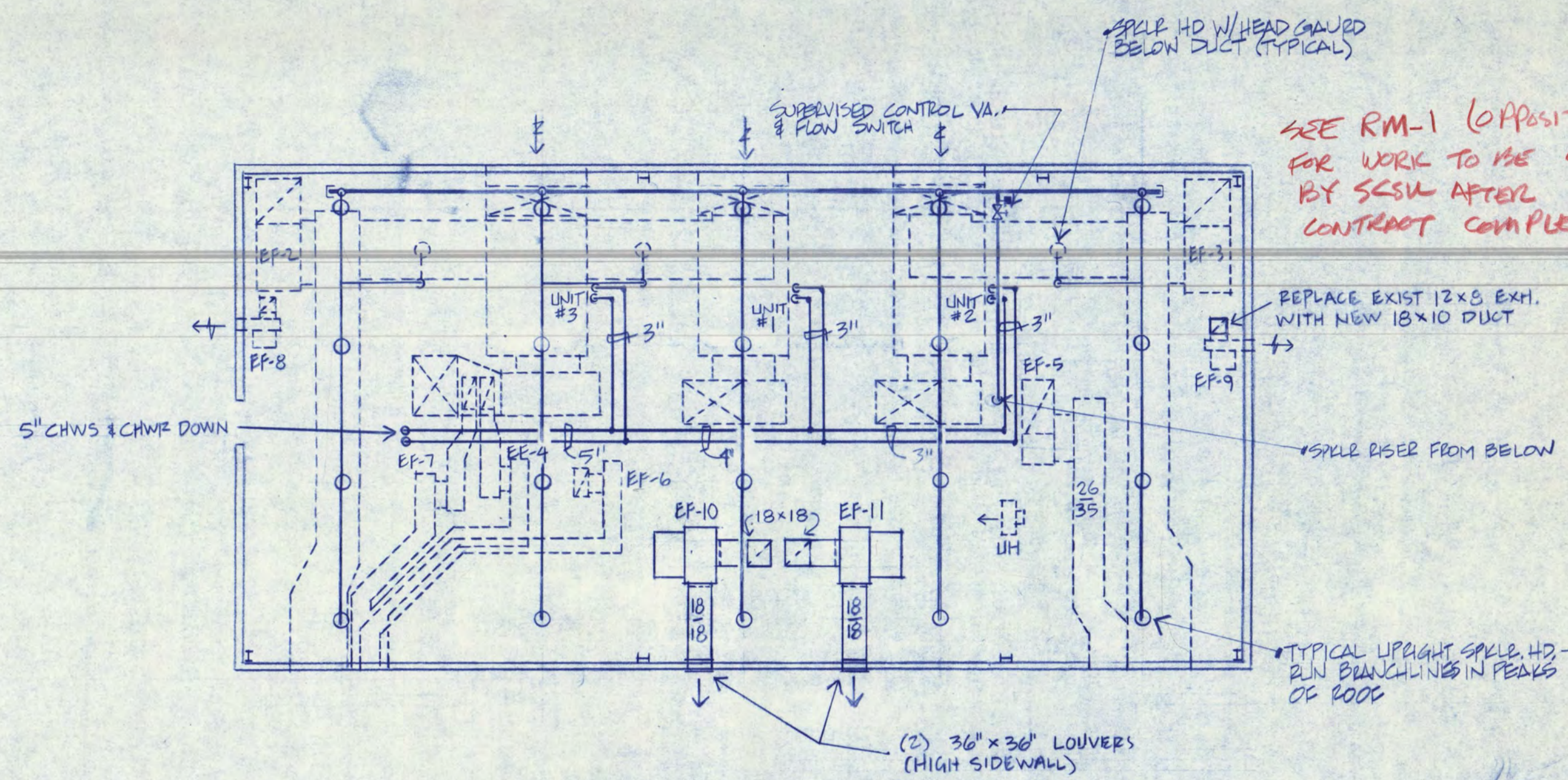


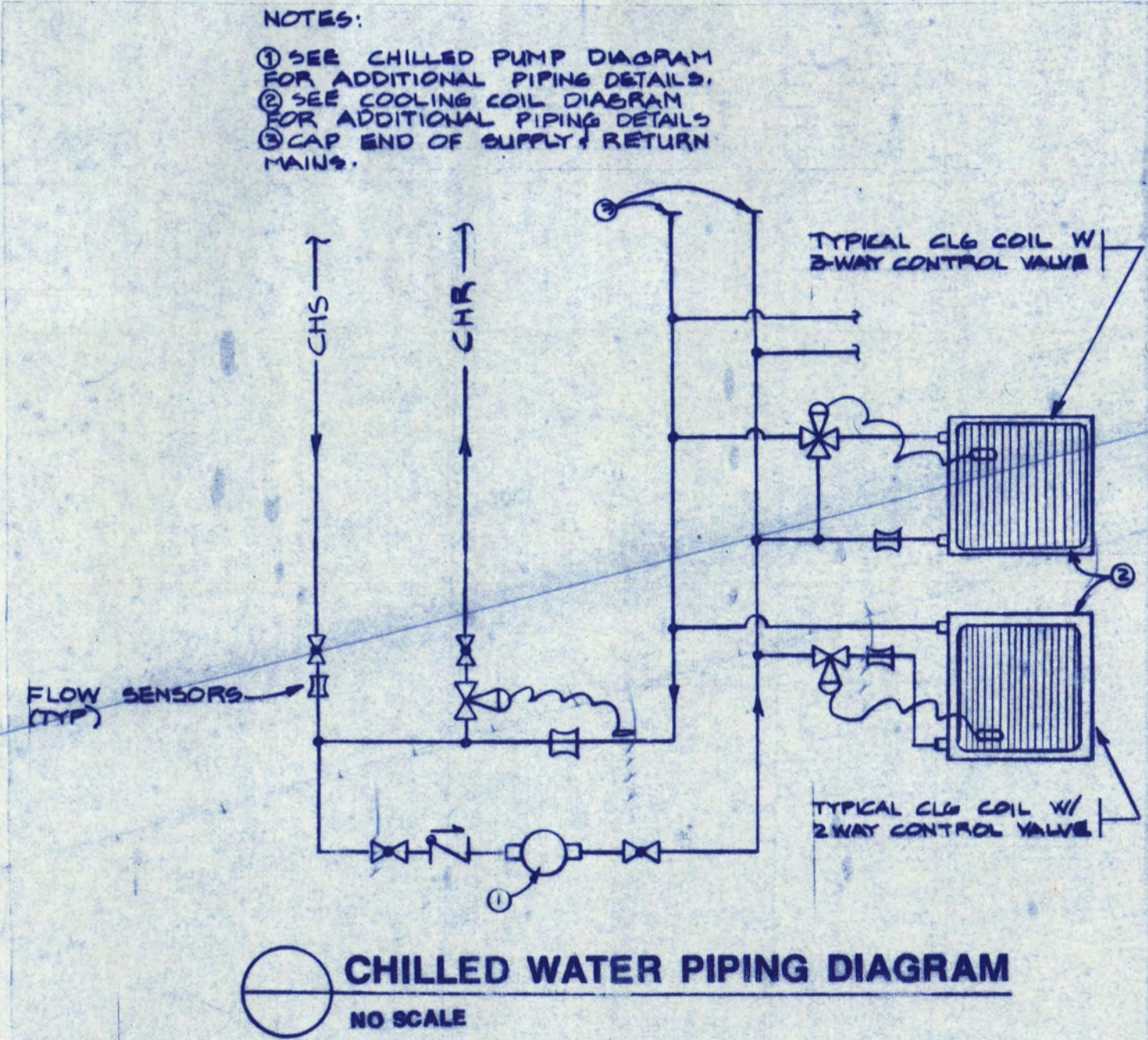
TYPICAL SUPPLY UNIT SECTION
SCALE: 3/8" = 1'-0"



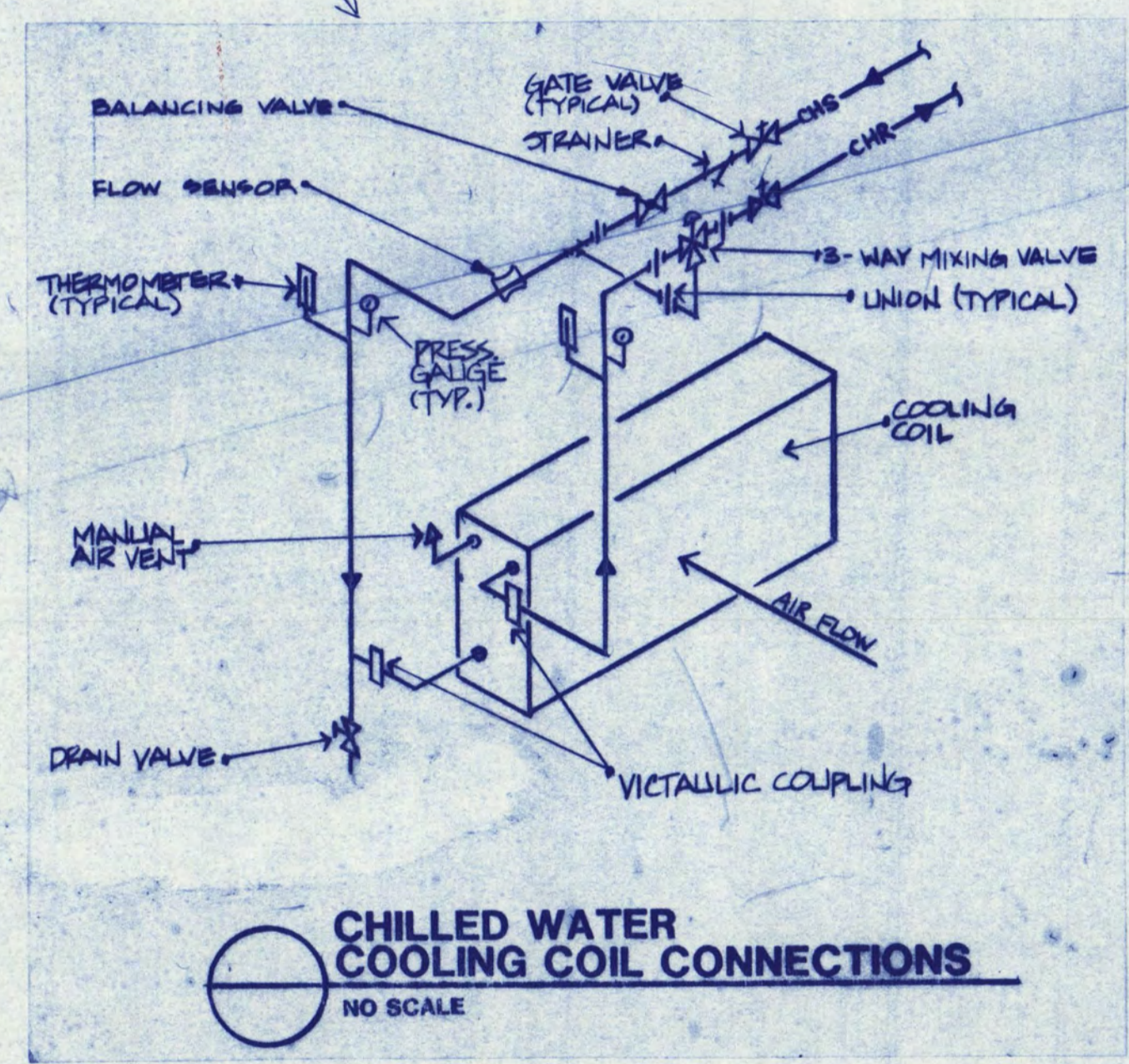
GARVEY PENTHOUSE PLAN
SCALE: 1/8" = 1'-0"

SEE RM-1 (OPPOSITE PAGE) FOR WORK TO BE CONTRACTED BY SCSU AFTER CONST. CONTRACT COMPLETED.

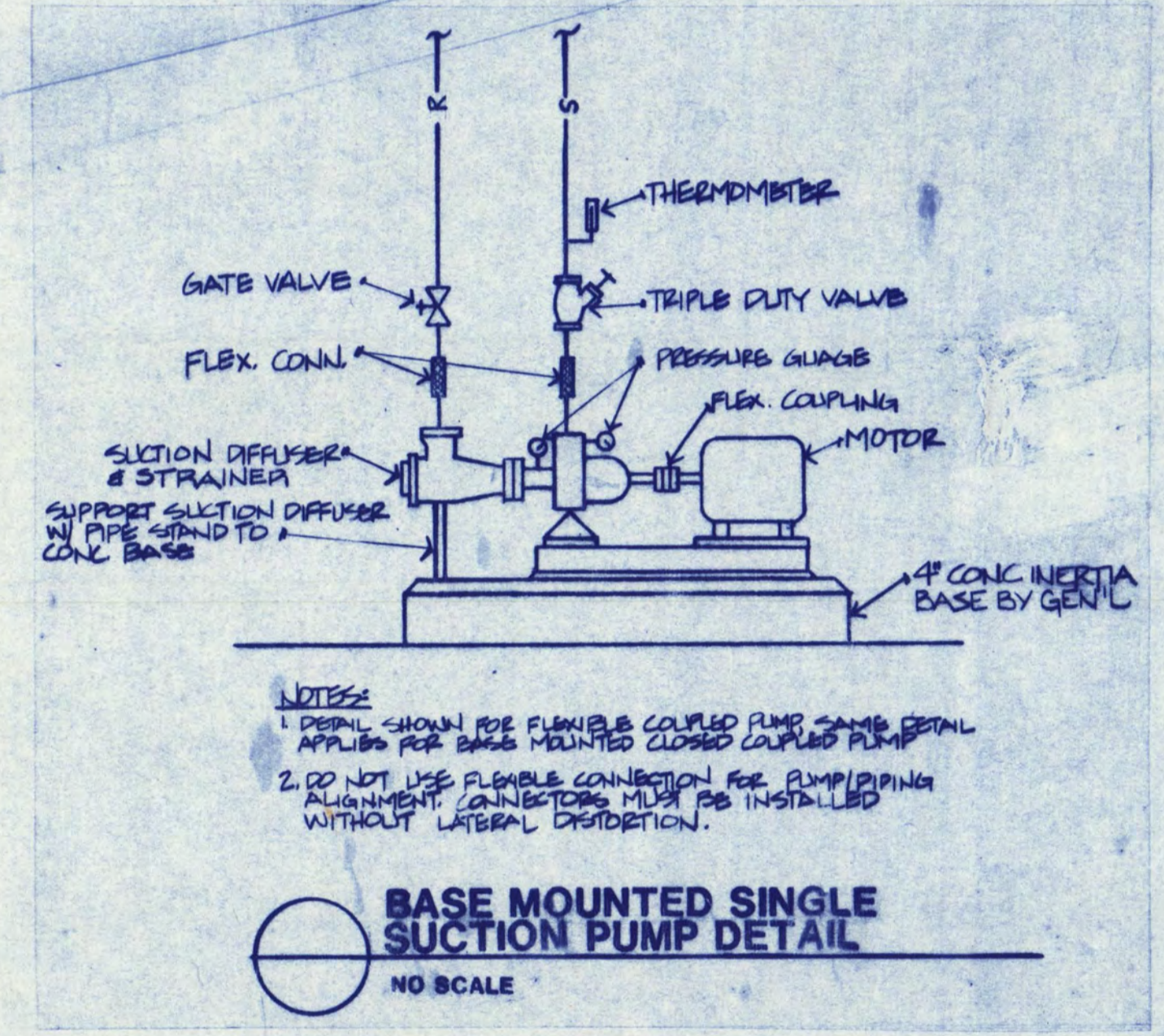
NOTE: ALL COOLING COILS SHALL HAVE 2 WAY CONTROL EXCEPT GARVEY UNIT #1 SHALL HAVE 3WAY



CHILLED WATER PIPING DIAGRAM
NO SCALE

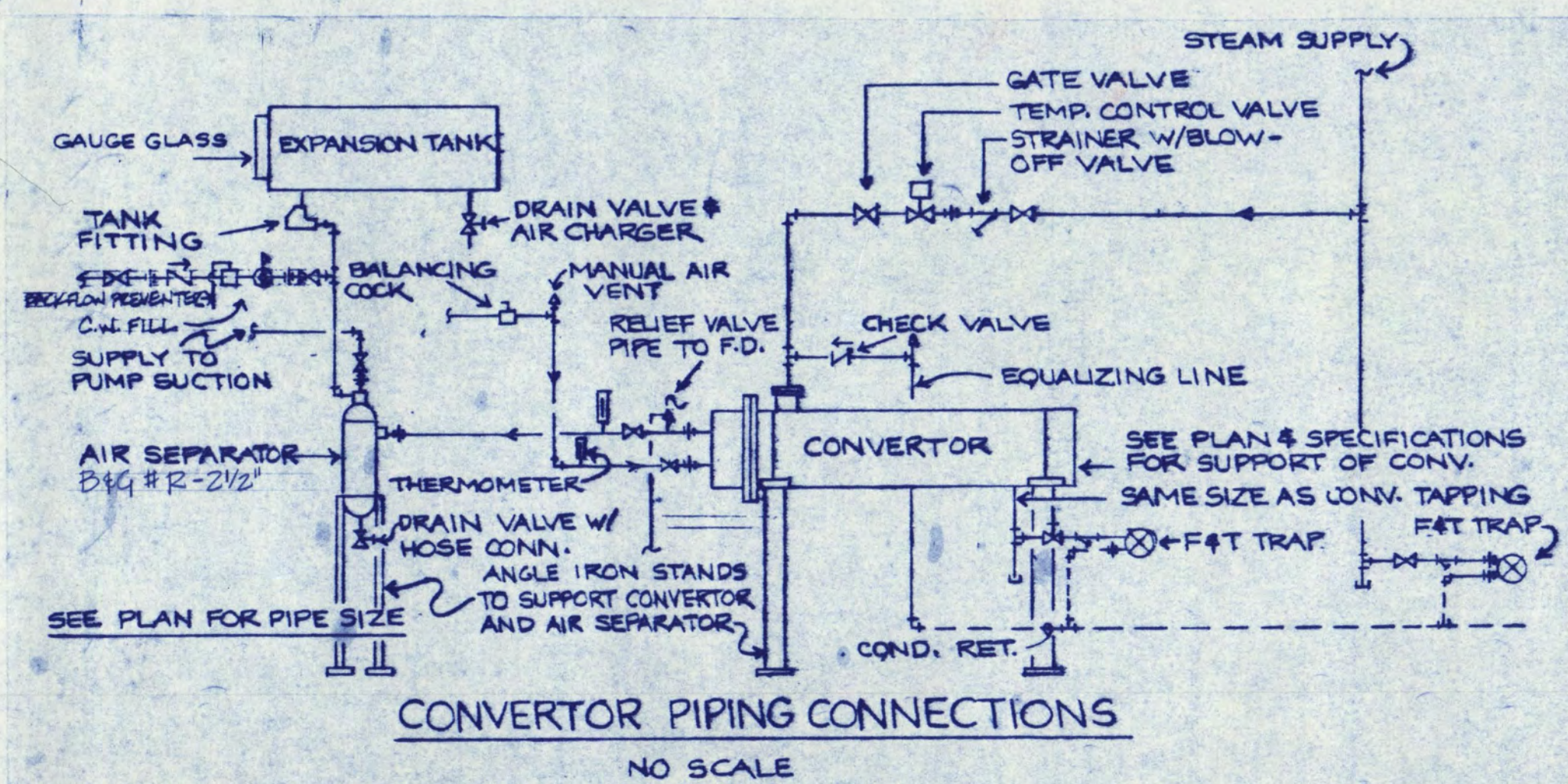


CHILLED WATER COOLING COIL CONNECTIONS
NO SCALE



BASE MOUNTED SINGLE SUCTION PUMP DETAIL
NO SCALE

NOTES:
1 DETAIL SHOWN FOR FLEXIBLE COUPLED PUMP SAME DETAIL APPLIES FOR BASE MOUNTED CLOSED COUPLED PUMP
2 DO NOT USE FLEXIBLE CONNECTIONS FOR PUMP/PIPING ALIGNMENT CONNECTIONS MUST BE INSTALLED WITHOUT LATERAL DISTORTION.



CONVERTOR PIPING CONNECTIONS
NO SCALE

PUMP SCHEDULE

NAME	TYPE	GPM	FT HD	HP	RPM	IMPELLOR	MFG & MODEL
CHILL WTR	BASE MTD	455	60'	10	1750	8 1/4"	B&G 1510 4BC
*	BASE MTD	455	60'	10		8 1/4"	B&G 1510 4BC
HOT WTR	INLINE	50	50'	1 1/2		6 7/8"	B&G 80-1 1/2 x 1 1/2 B
*	INLINE	50	50'	1 1/2		6 7/8"	B&G 80-1 1/2 x 1 1/2 B
HEAT RELOV	INLINE	20	20'	1/4		4 3/4"	B&G 60-1 1/4 AA BRONZ
*	INLINE	20	20'	1/4		4 3/4"	B&G 60-1 1/4 AA BRONZ

* STANDBY

STEAM TO HW CONVERTOR

GPM	TUBE WPD	BWT/LWT	STM	SR FT SURFACE	TUBE	PASS	EQUL FACTOR	MFG & MODEL
50	2 FT	170/190	2 B314	32	3/4"	4	.001	B&G SU-84



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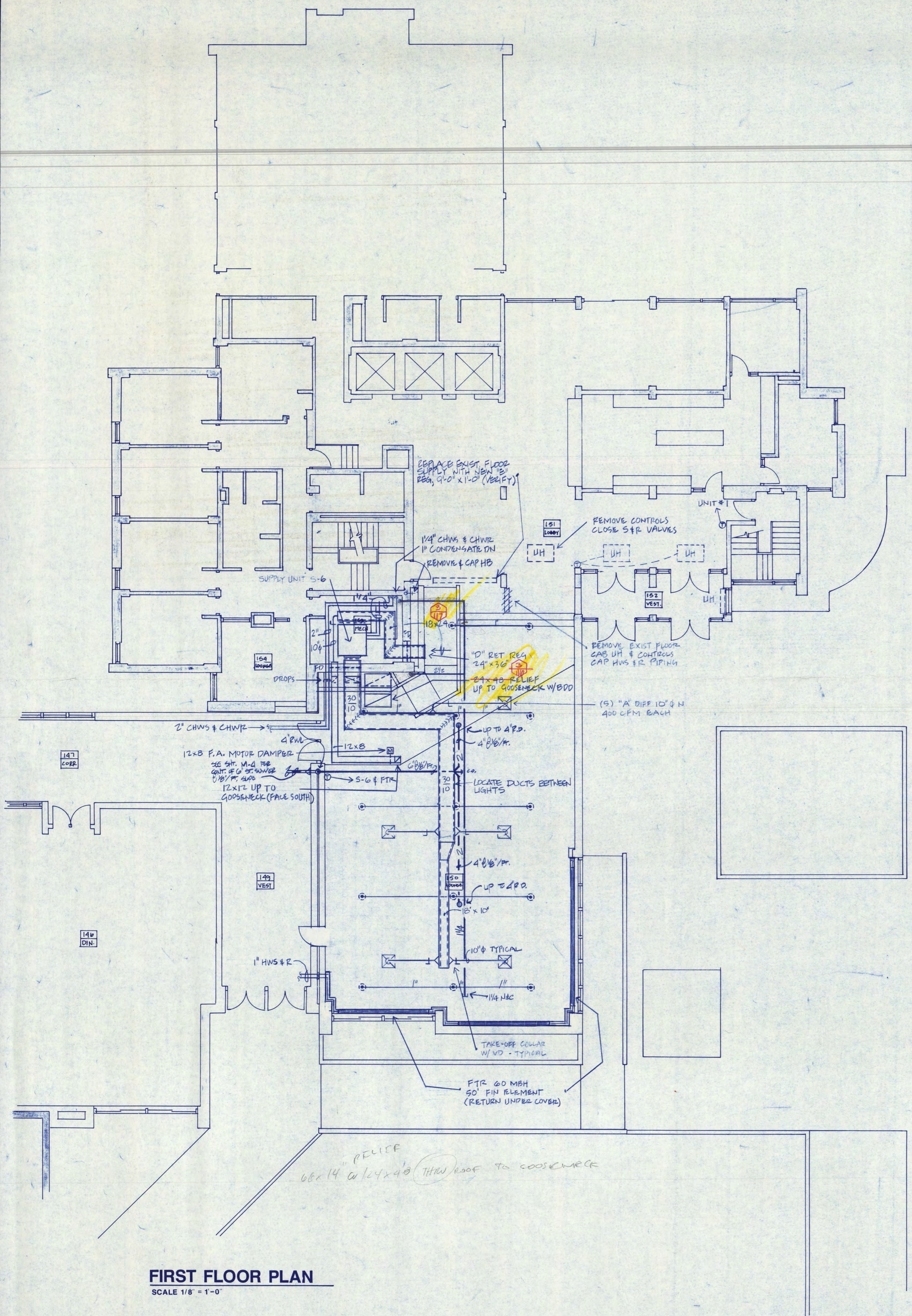
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Frederic Wemlinger
DATE 12-15-86 REG NO 7620



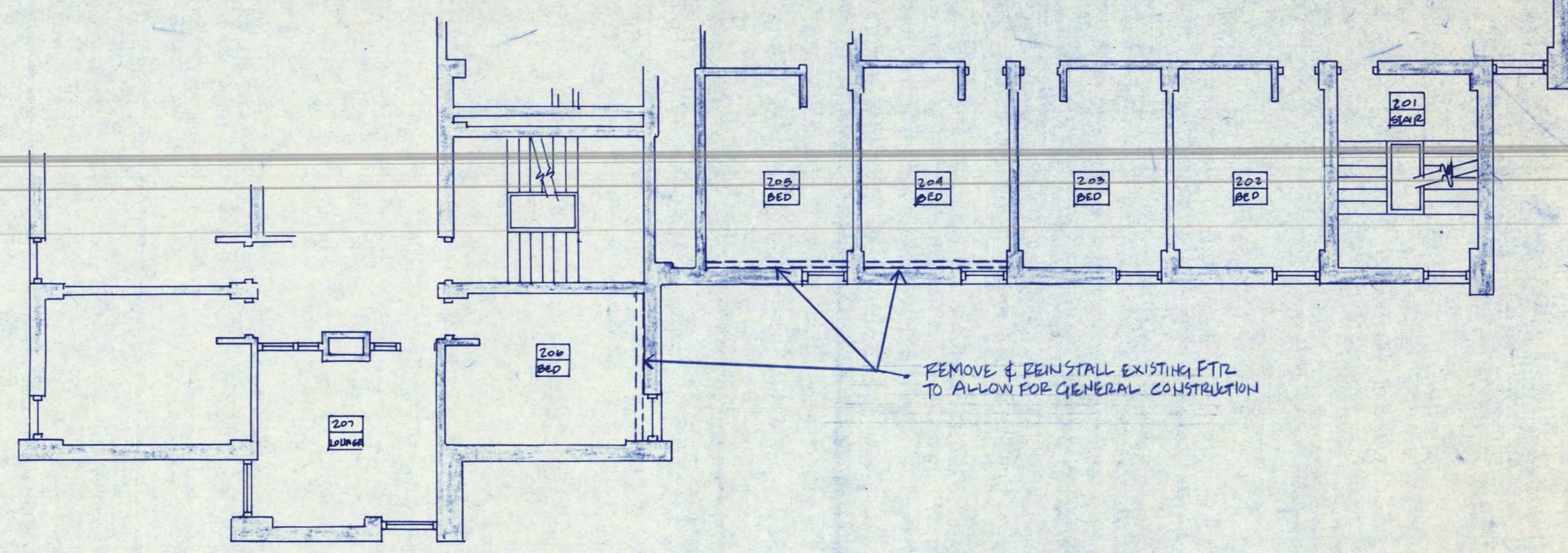
GARVEY COMMONS/ SHERBURNE HALL ADDITIONS & REMODELING
ST. CLOUD STATE UNIVERSITY
ST. CLOUD MINNESOTA

REVISED PROJECT NO. 86015
ISSUE DATE 12-15-86
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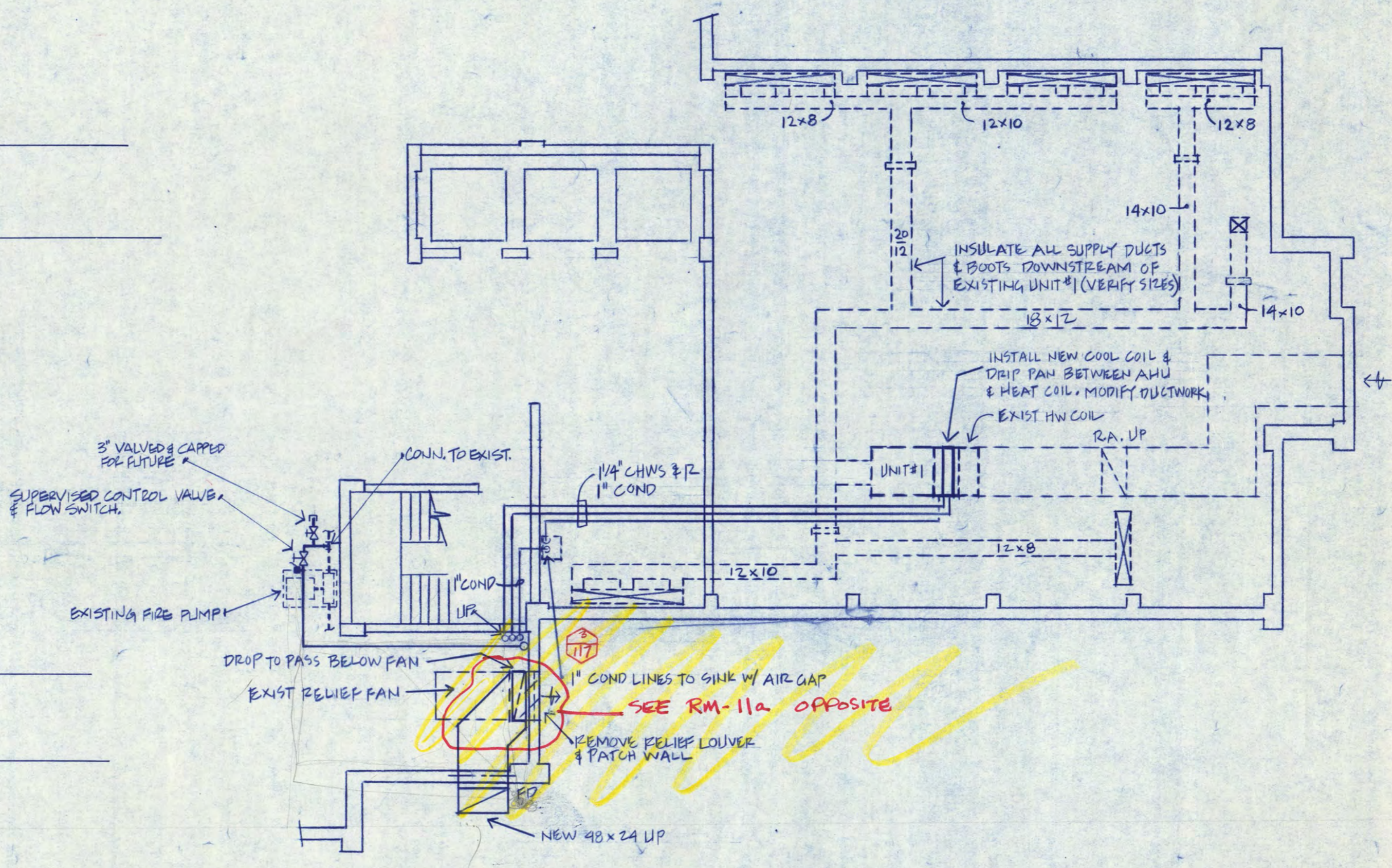
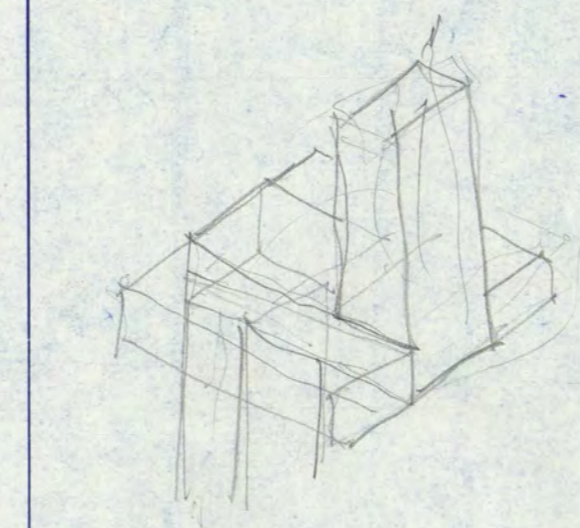


FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



PARTIAL SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

- 116. First Floor Plan. Presently, a 24" x 48" relief duct is shown offset from a 24" x 48" riser to a rooftop relief. The 24" x 48" offset shall be changed to 66" x 14" insulated duct section. The 24" x 48" through roof shall remain.
- 117. Sprinkler riser from basement shall be located in shaft on east side of equipment room.



PARTIAL BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"



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FAN SCHEDULE

UNIT	CFM	TSP	TYPE	SIZE	RPM	HP	MPQR & MODEL	NOTES
GARVEY EXIST EF-2	9700							RET/EXH FOR UNIT #1
EXIST EF-3	9100							RET/EXH FOR UNIT #2
EXIST EF-4	2500							
EXIST EF-5	11000							
EXIST EF-6	1200							
EXIST EF-7	3000							
EXIST EF-8	550							
EXIST EF-9	950							
NEW EF-10	4000	2 1/4"	CENTR	22"	1190	3	GREENHEAT ZZ B1SW	①
NEW EF-11	4200	2 1/4"	CENTR	22"	1220	3	GREENHEAT ZZ B1SW	①

- ① PROVIDE WITH SPRING ISOLATORS
- ② REBALANCE EXISTING UNITS
- ③ SEE ELEC PLANS FOR MOTOR VOLTAGE

AIR HANDLING UNIT SCHEDULE

UNIT	FAN DATA (2)						HEAT COIL DATA (3)				COOL COIL DATA (4)				FILTER	MPQR & MODEL	NOTES		
	CFM	TSP	TYPE	SIZE	RPM	HP	BAT	LAT	STM	HW	SIZE	EAT	SENS MEH	LAT MEH				CH WTR	SIZE
EXIST GARVEY #1	15000	2 1/4"	AFSW	44"	570	10					EXIST	833/69	404.4	275.3	136 GPM	(2) 30" x 72"	EXIST		① 35% O.A.
EXIST GARVEY #2	14000	2 1/4"	AFSW	44"	560	10					EXIST	833/69	373.8	225.6	120 GPM	(2) 27" x 72"	EXIST		① 35% O.A.
EXIST GARVEY #3	15000	2 1/4"	AFSW	44"	570	10					EXIST	92/75	275.4	352.4	125 GPM	(2) 30" x 72"	EXIST		① 100% O.A.
EXIST SHERBURNE #1	3900	1 3/4"	CABINET	T-17	700	3					EXIST	792/65.8	47.5	12.5	12 GPM	24" x 48"	EXIST		① 5% O.A.
NEW S-4	600	1 1/2"	PC	9"	1380	1/2						792/65.8	13.0	4.0	4 GPM	1.66"	2" T.A. MCQUAY SCB-0B1A		FAN COIL 5% O.A.
NEW S-5	4500	2 1/4"	PC	15"	990	5	45	70	130 LB/HK		8.5"	818/67.8	116.0	90.0	42 GPM	8.5"	2" T.A. MCQUAY LSL-10B		VERT DRAWHRU 25% O.A.
NEW S-6	2000	2"	PC	12"	1190	1 1/2						804/67	49.5	28.0	16 GPM	5.5"	2" T.A. MCQUAY LSL-10B		HURT DRAWHRU 15% O.A.

- ① REPLACE EXIST MOTOR & DRIVE
- ② REBALANCE EXISTING UNITS
- ③ SEE ELEC PLANS FOR MOTOR VOLTAGE
- ④ BASED ON 2# STM OR 190-170°F HW, 35" MAX APD, 5' MAX WPD
- ⑤ BASED ON 4#-5# CH WTR, 90" MAX APD, 10' MAX WPD

UNIT HEATER SCHEDULE

MARK	TYPE	MBH	STM	HW	HI CFM	HP	FILTER	NOTES
A	SEMI RECESS	30	-	3 GPM	600	1/15	1" T.A.	FRONT DISH, FRONT RET
B	SEMI RECESS	30	32 LB/HK	-	600	1/15	1" T.A.	FRONT DISH, FRONT RET
C	WALL SURFACE	10	11 LB/HK	-	250	1/30	1" T.A.	FRONT DISH, BOTTOM RET

- ① BASED ON 2# STM OR 190-170°F HW, 60°F BAT.
- ② SEE ELEC PLANS FOR MOTOR VOLTAGE

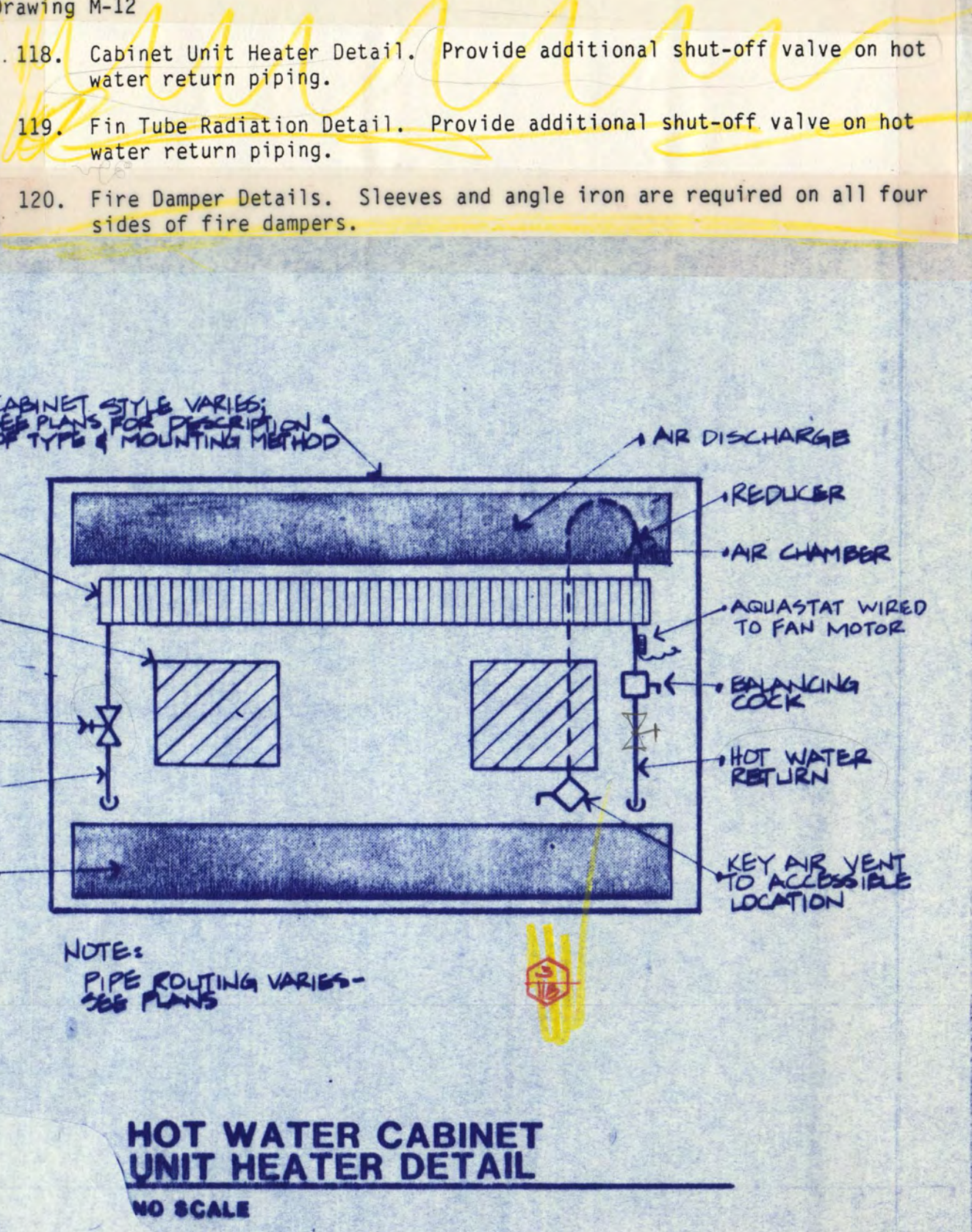
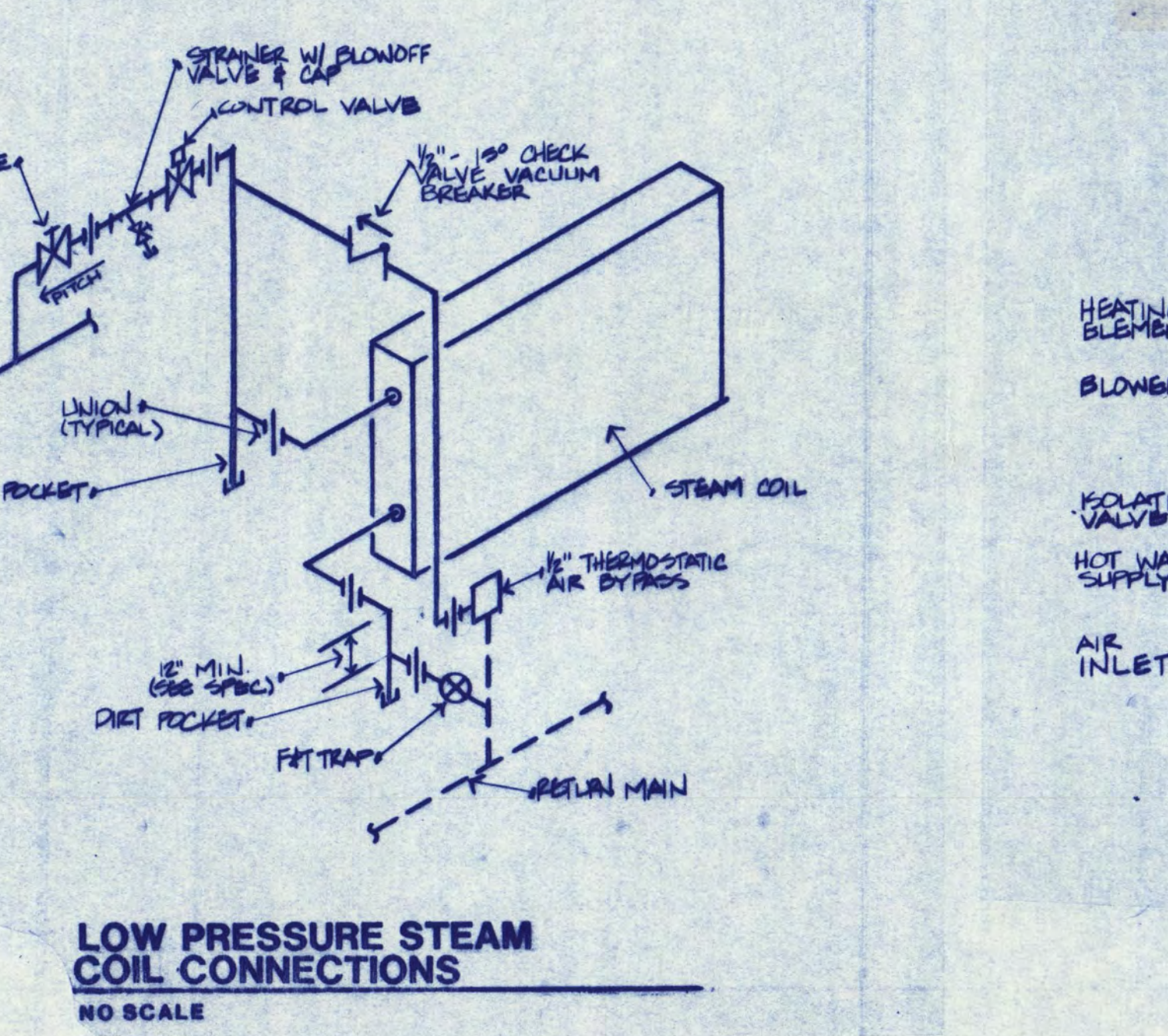
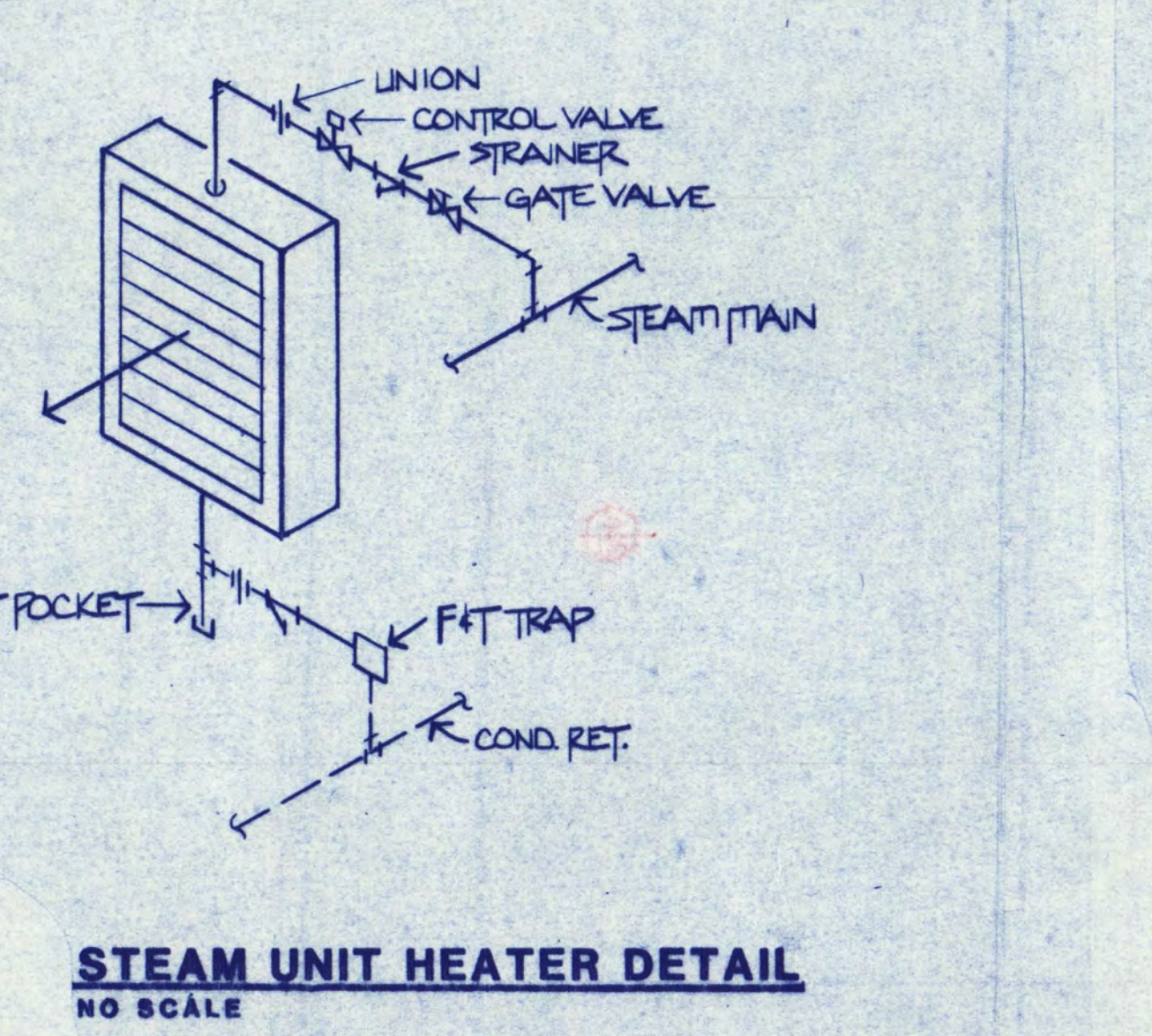
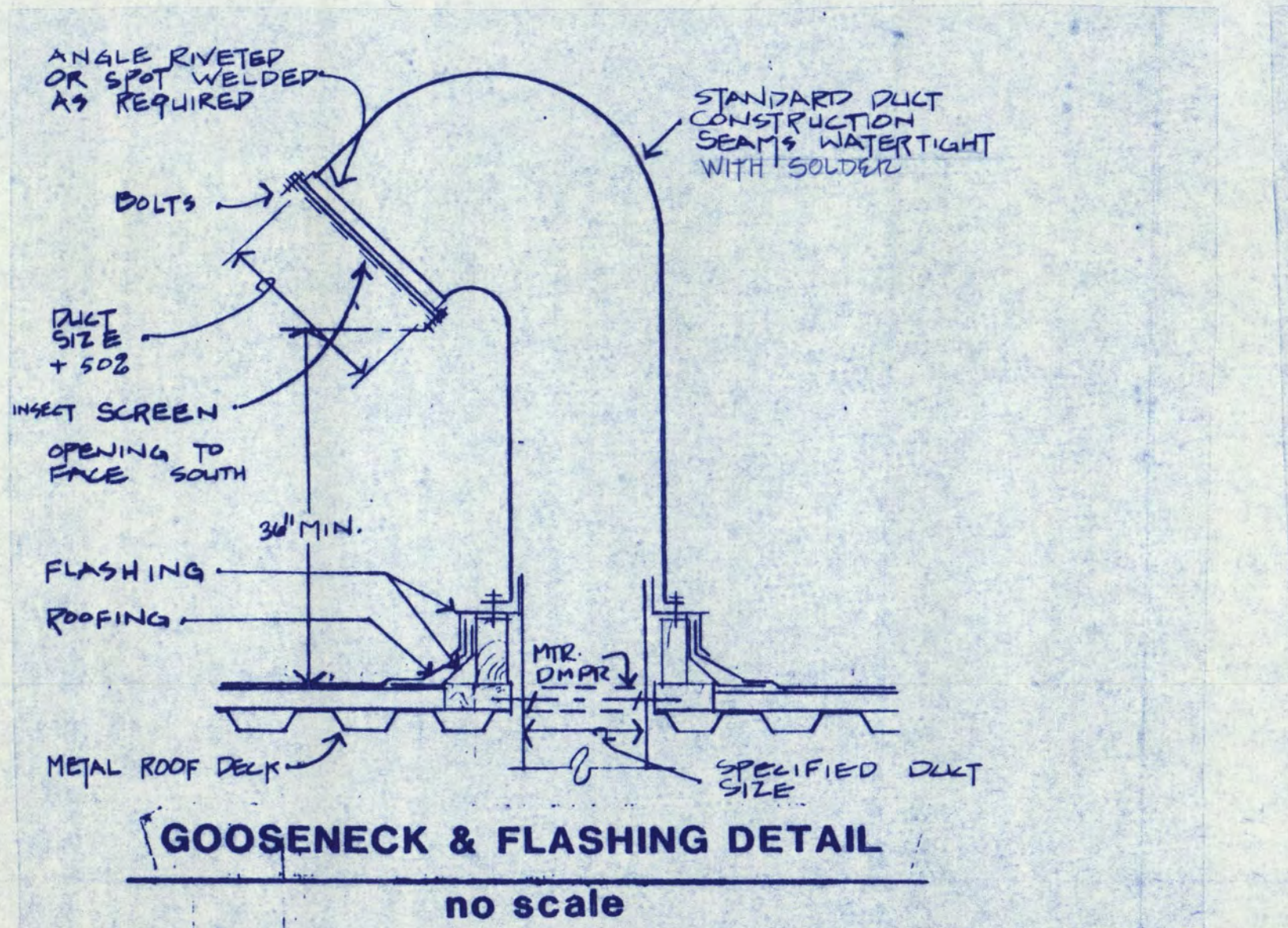
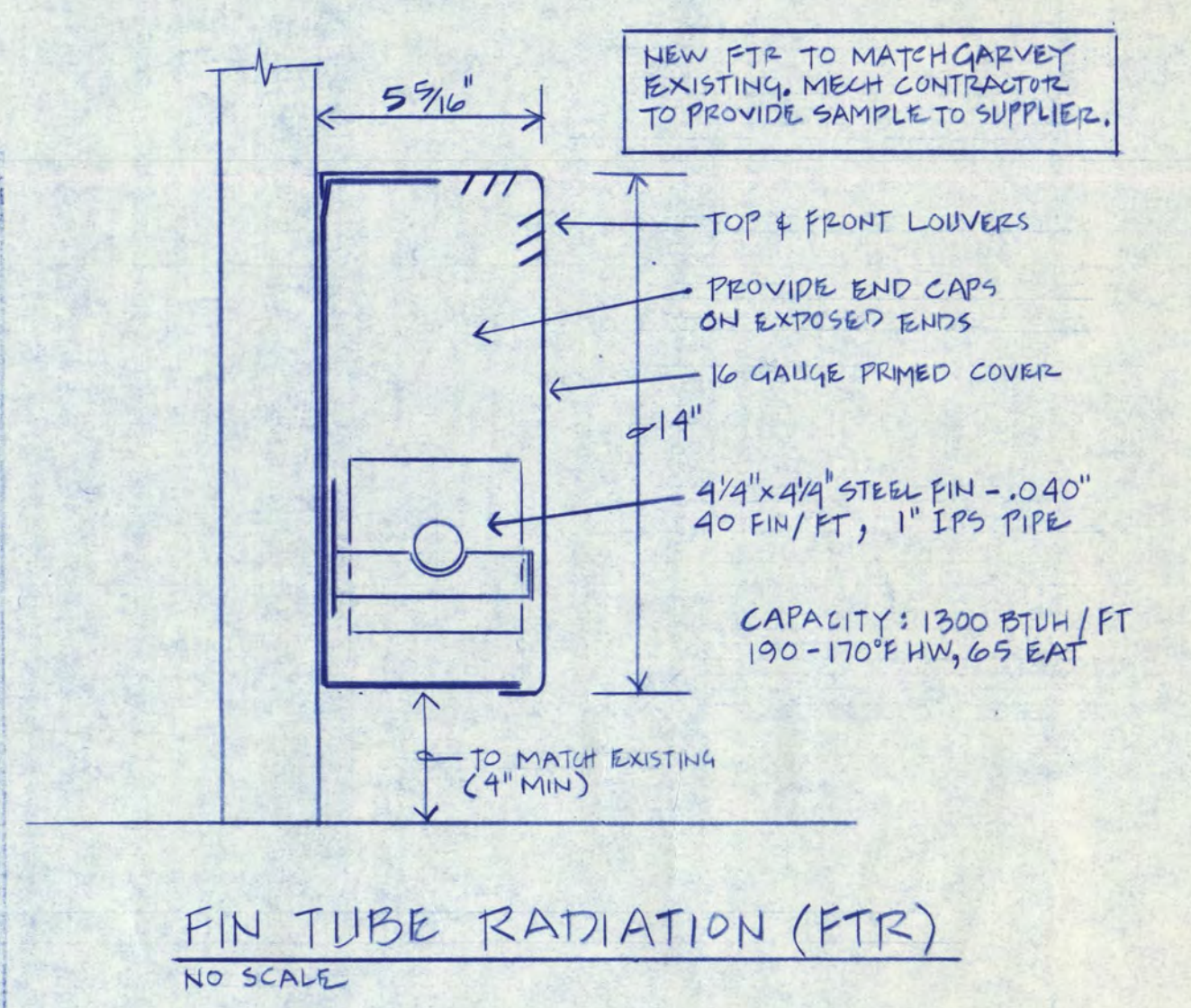
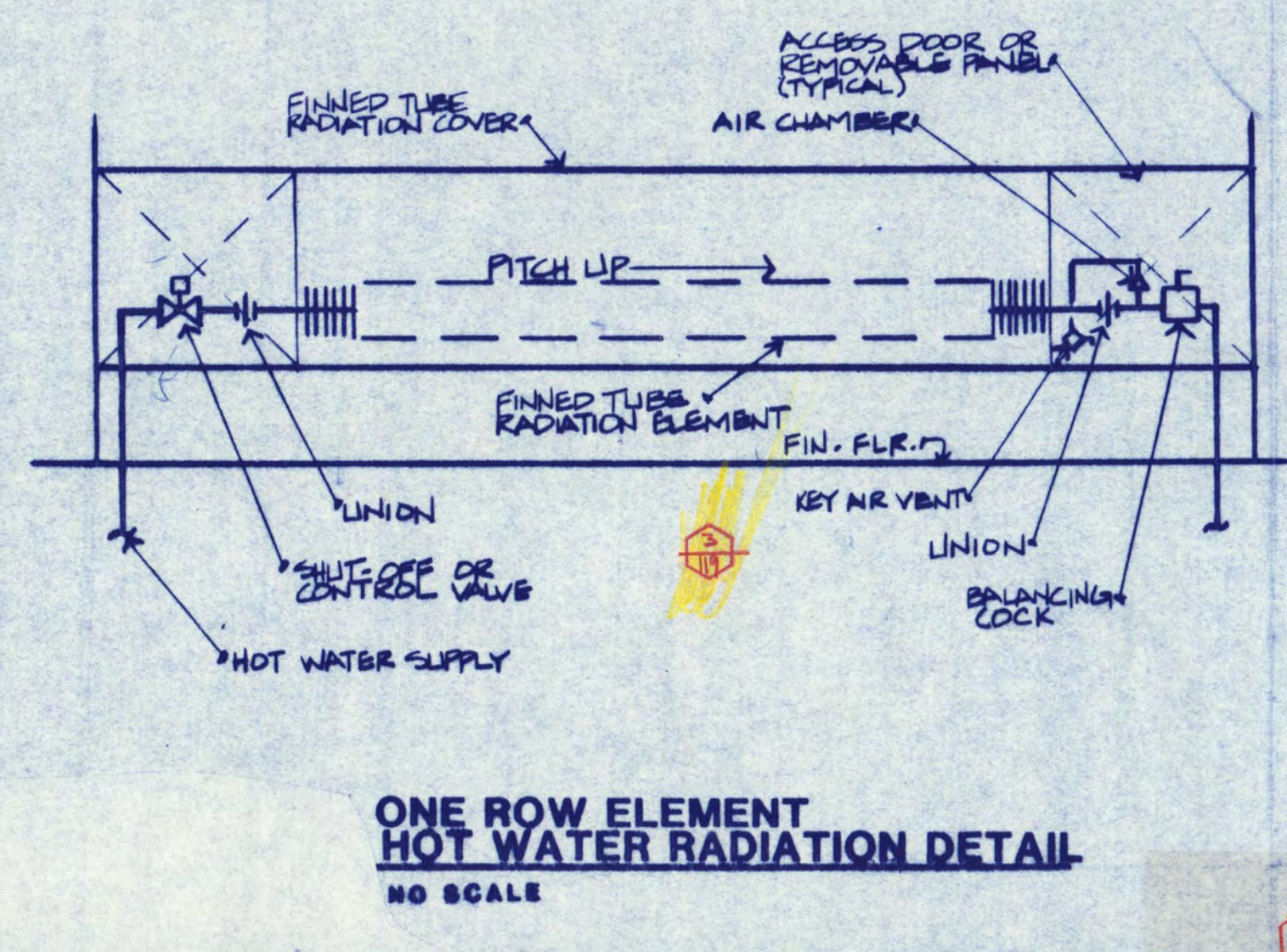
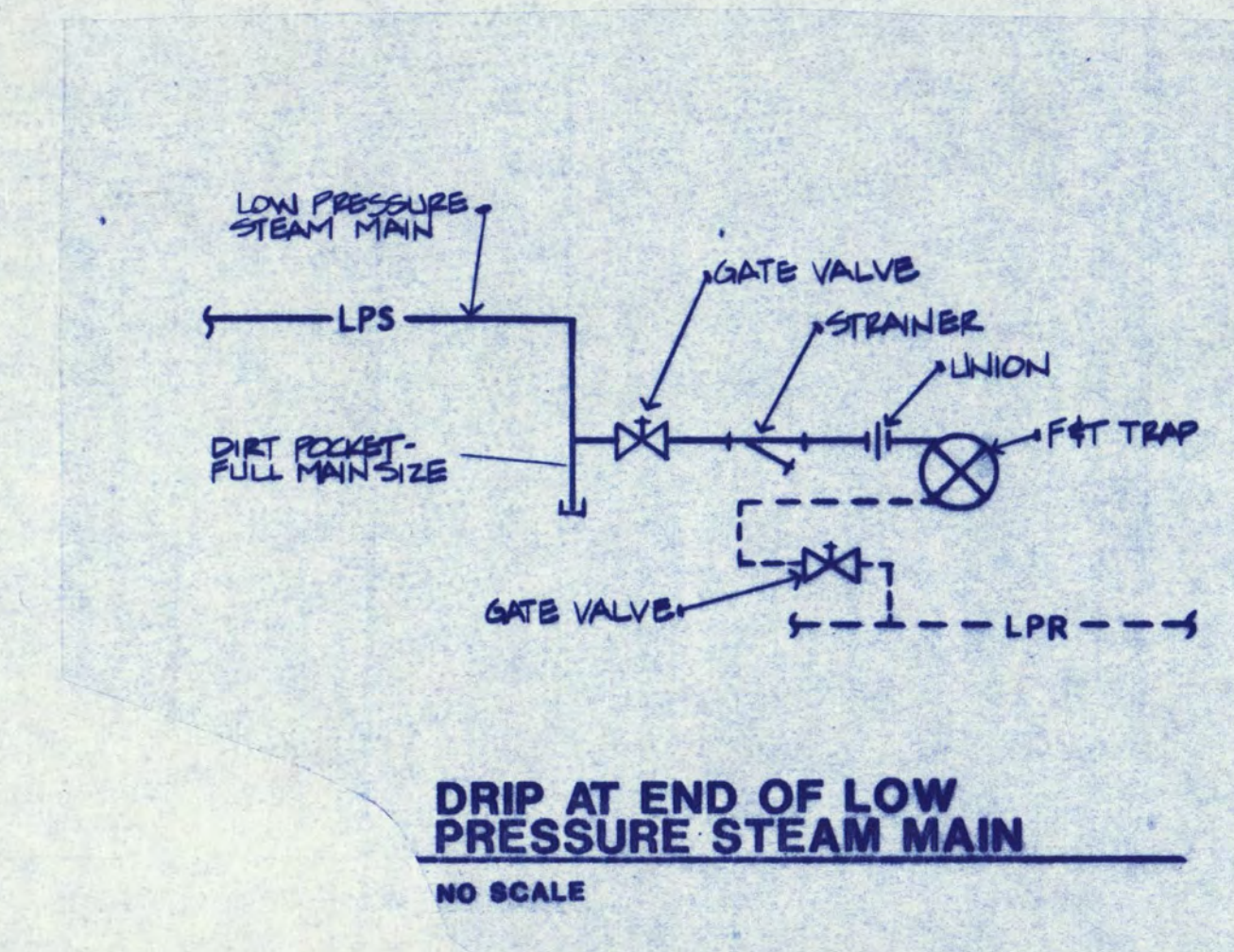
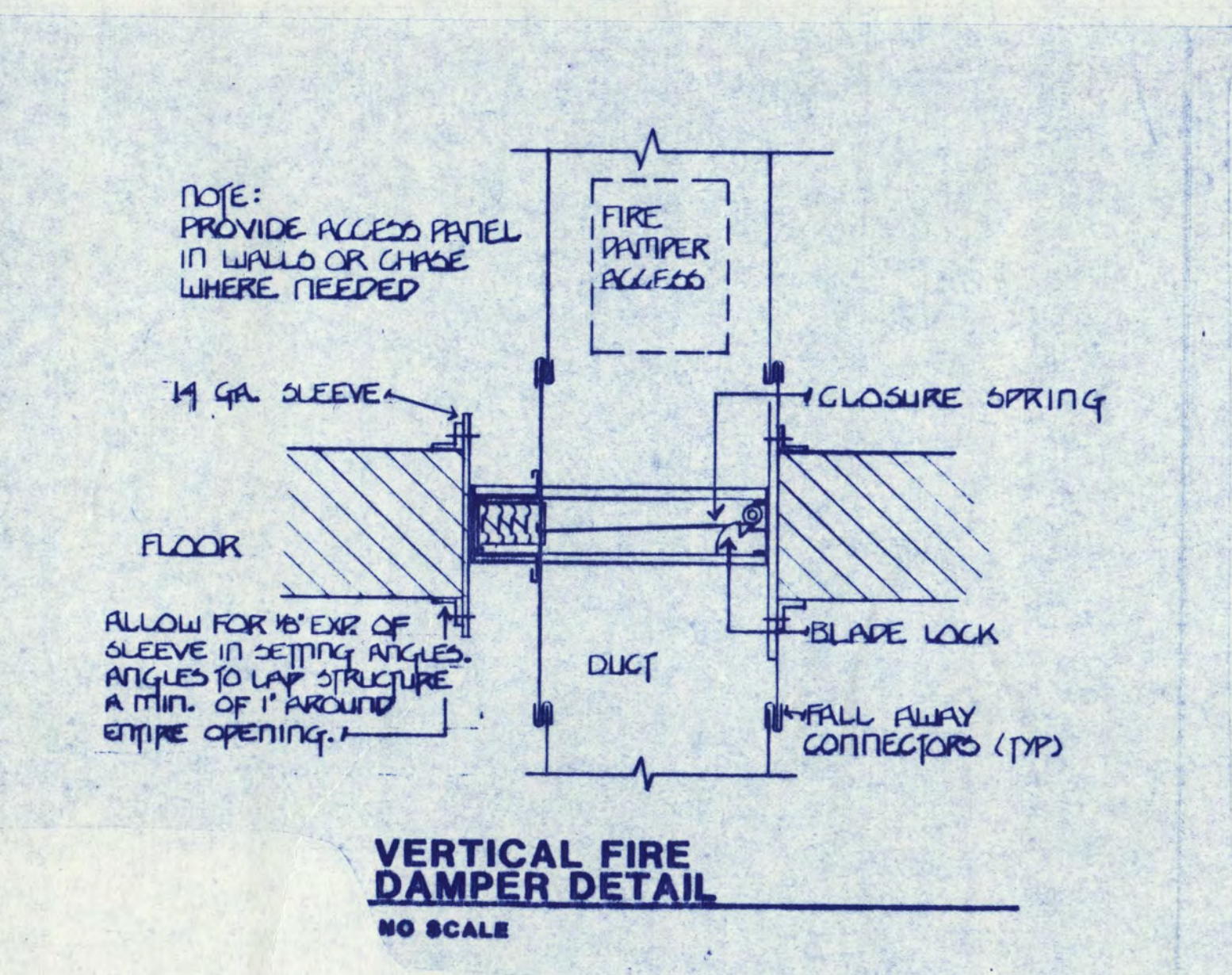
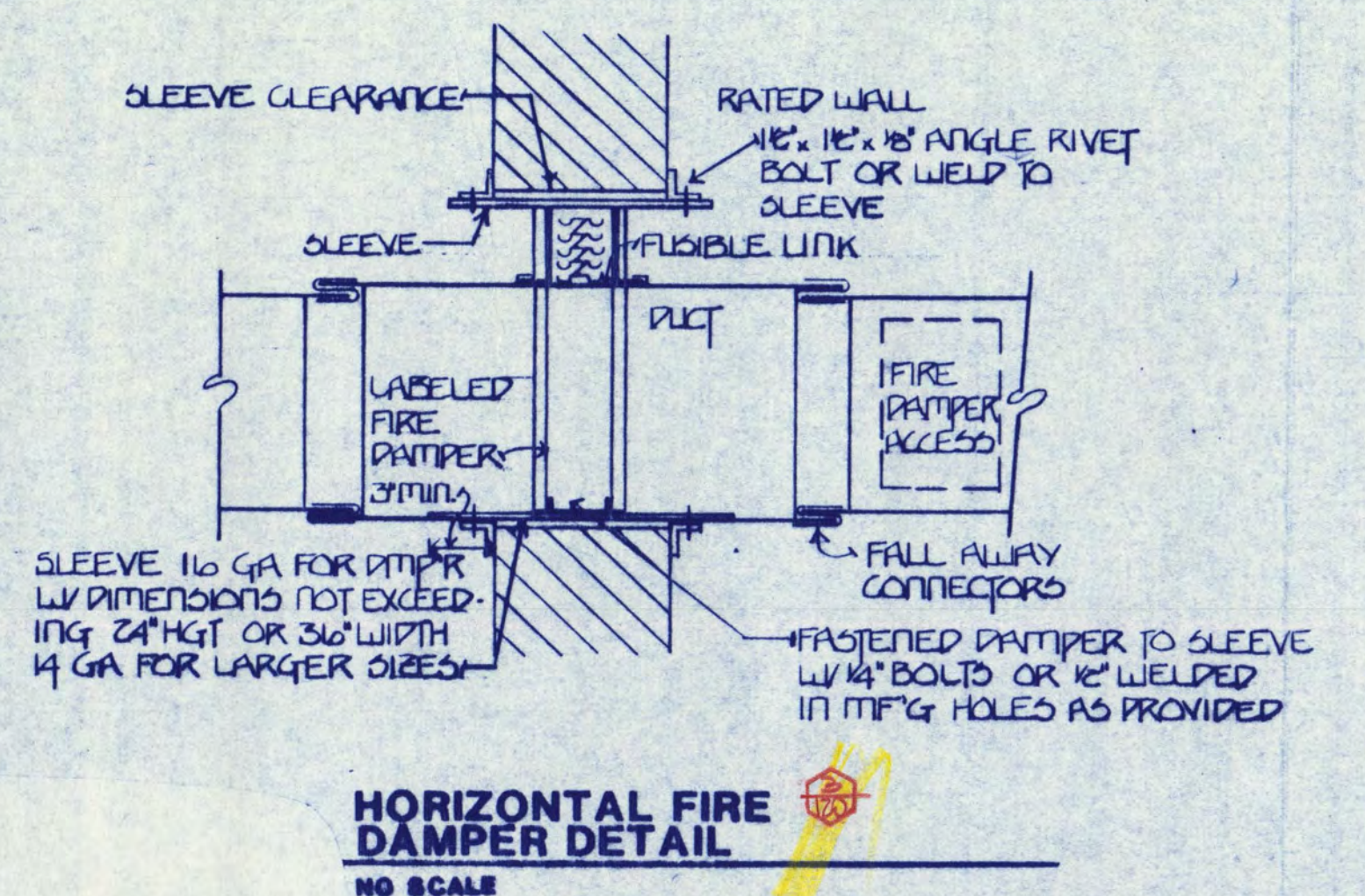
USE 8" RECESS DEPTH FOR A & B

VAV BOX SCHEDULE

MARK	CFM	TSP	Φ INLET	MPQR & MODEL
#1	0-600	.05	8"	CARNES AVCB-0B
#2	0-800	.09	8"	CARNES AVCB-0B

GRILLE, REGISTER, DIFFUSER SCHEDULE

MARK	TYPE	MPQR & MODEL
A	CEILING SUPPLY DIFF	KREBER 1400 24X24+VD
B	SUPPLY REGISTER	KREBER 880H+VD
C	RET/TRANS GRILLE	KREBER EGC-5
D	RET/EXH REGISTER	KREBER 880H+VD
E	FLOOR SUPPLY REGISTER	KREBER 1500-F2+VD



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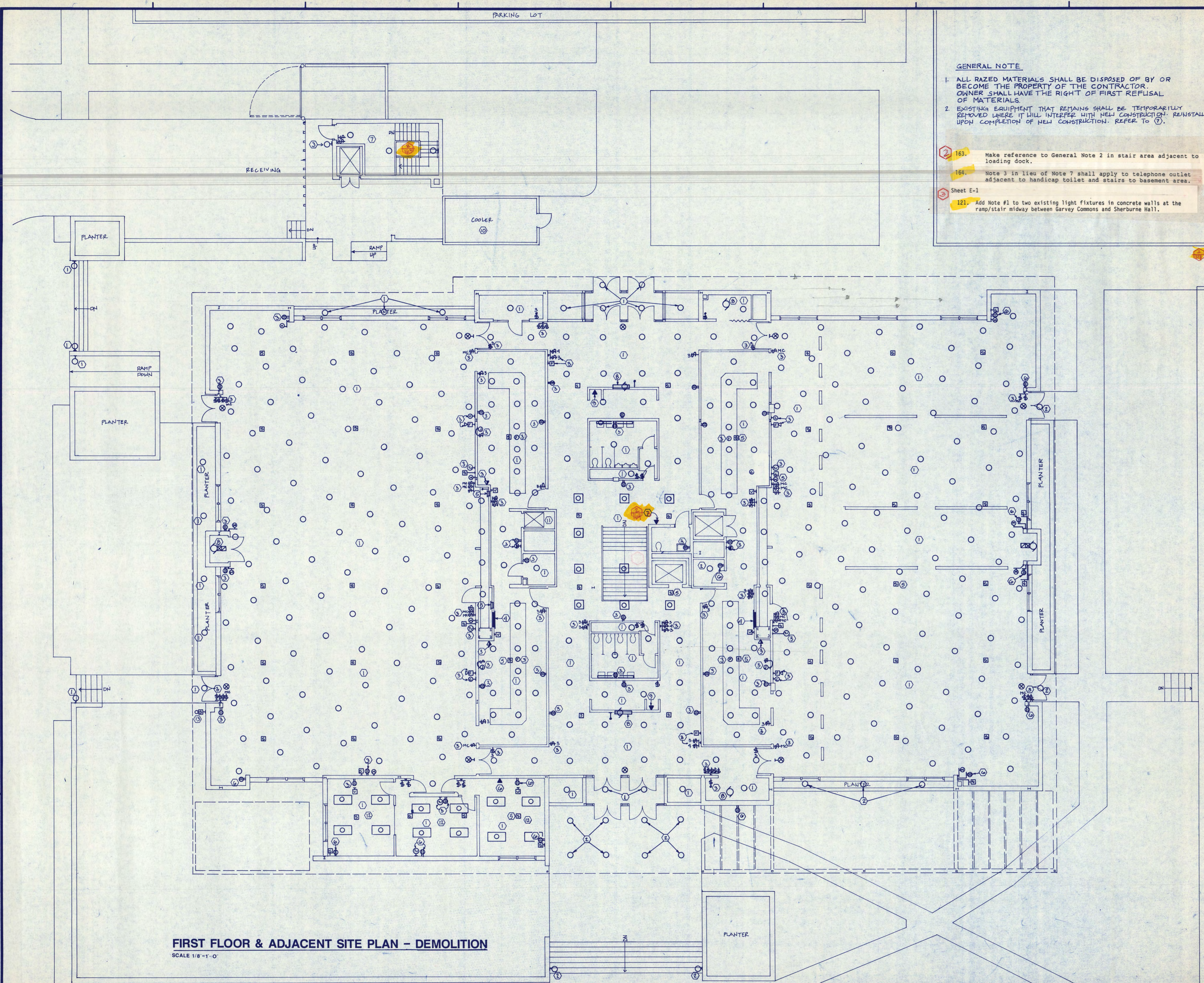
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Fredric Wehlinger
DATE 2-15-86 REG. NO. 7620

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TELEPHONE 812-253-2100

**GARVEY COMMONS/
SHERBURNE HALL
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ST. CLOUD STATE UNIVERSITY
ST. CLOUD MINNESOTA

REVISED PROJECT NO. 80015
ISSUE DATE 12-15-86
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M-12
NORTH



- GENERAL NOTE**
1. ALL RAZED MATERIALS SHALL BE DISPOSED OF BY OR BECOME THE PROPERTY OF THE CONTRACTOR. OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL OF MATERIALS.
 2. EXISTING EQUIPMENT THAT REMAINS SHALL BE TEMPORARILY REMOVED WHERE IT WILL INTERFERE WITH NEW CONSTRUCTION. REINSTALL UPON COMPLETION OF NEW CONSTRUCTION. REFER TO 7.
163. Make reference to General Note 2 in stair area adjacent to loading dock.
164. Note 3 in lieu of Note 7 shall apply to telephone outlet adjacent to handicap toilet and stairs to basement area.
- Sheet E-1
121. Add Note #1 to two existing light fixtures in concrete walls at the ramp/stair midway between Garvey Commons and Sherburne Hall.

- ELECTRICAL NOTES**
1. EXISTING LIGHT FIXTURES TO BE REMOVED UNLESS OTHERWISE NOTED. EXISTING CONDUIT AND BOXES MAY, AT CONTRACTOR'S OPTION, BE REUSED WHERE PRACTICAL WITH NEW WIRE PULLED IN. ALL OTHER ASSOCIATED CONDUIT, BOXES & WIRING TO BE REMOVED BACK TO POINT OF ORIGIN. CONDUIT & BOXES IN FLOOR SLAB OR WALLS NOT SCHEDULED FOR DEMOLITION SHALL HAVE CONDUCTORS PULLED OUT AND THEN BE ABANDONED IN PLACE.
 2. EXISTING LIGHTING TO REMAIN. REFER AS REQUIRED.
 3. EXISTING DEVICE TO BE REMOVED. REFER TO NOTE 1.
 4. EXISTING PANEL TO BE REMOVED. EXISTING FEEDERS TO BE EXTENDED TO NEW PANEL. SEE SHEET E-G FOR LOCATION.
 5. EXISTING SOUND SYSTEM (AMPLIFIERS, SPEAKERS, WIRING, ETC.) TO BE REMOVED IN ITS ENTIRETY.
 6. EXISTING DEVICE TO REMAIN. REFER AS SHOWN ON SHEETS E-B & E-G.
 7. EXISTING LIGHTING & CIRCUITING IN THIS AREA TO REMAIN AS IS.
 8. DISCONNECT ALL MOTORS, UNIT HEATERS, ETC. SHOWN ON MECHANICAL PLANS TO BE REMOVED. (SEE NOTE 1).
 9. REMOVE TELEPHONE OUTLET. INTERCEPT EXISTING 1" IN BASEMENT FOR REUSE WITH NEW PHONES. SEE SHEET E-G.
 10. DISCONNECT FEEDERS TO EXISTING DAIRY COOLER & REROUTE TO NEW COOLER LOCATION.
 11. DISCONNECT POWER FROM FOOD LIFT DRIVE UNIT IN PENTHOUSE.
 12. FLUORESCENT FIXTURES REMOVED FROM THIS AREA SHALL BE TURNED OVER TO OWNER.
 13. EXISTING SPRINKLER ALARM TO BE RELOCATED BY MECH. EXTEND WIRING TO NEW LOCATION AS REQUIRED AND RECONNECT.

FIRST FLOOR & ADJACENT SITE PLAN - DEMOLITION
SCALE 1/8" = 1'-0"



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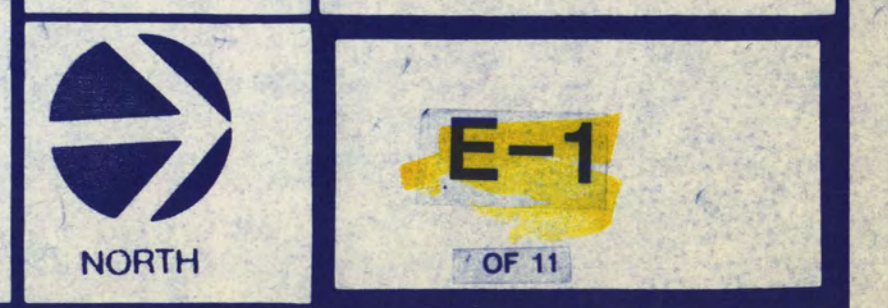
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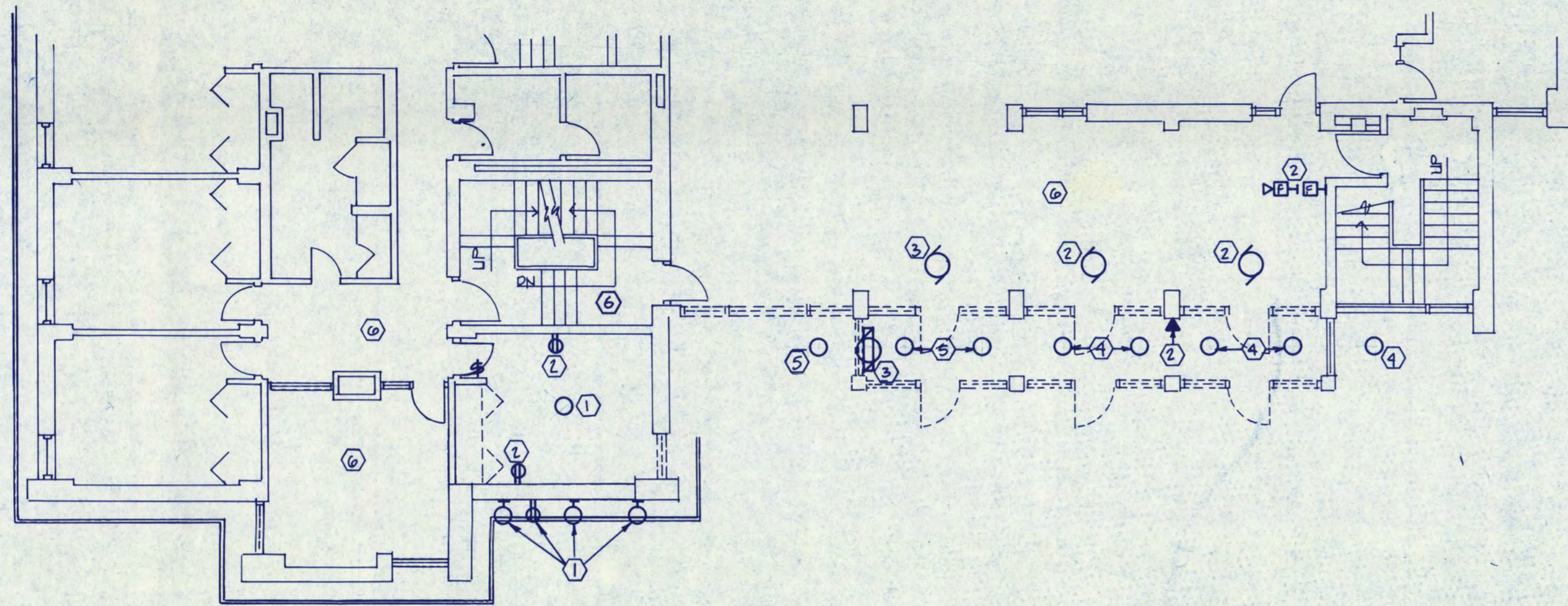
Raymond Bender
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PARTIAL FIRST FLOOR PLAN - DEMOLITION
SCALE 1/8"=1'-0"

- ELECTRICAL DEMOLITION NOTES**
- ① LIGHT FIXTURE TO BE REMOVED. SWITCH, J-BOX, CONDUIT & WIRE MAY BE REUSED FOR NEW LIGHTING. SEE SHEET E-7
 - ② EXISTING TO REMAIN
 - ③ DISCONNECT ELECTRICAL FROM UNIT HEATER. HEATER REMOVED BY OTHERS
 - ④ EXISTING LIGHT FIXTURES TO REMAIN, RECIRCUIT AS REQUIRED.
 - ⑤ LIGHT FIXTURE, CONDUIT & WIRE TO BE REMOVED. CONDUIT EMBEDDED IN WALLS OR CEILING SHALL HAVE WIRE PULLED OUT AND BE ABANDONED IN PLACE.
 - ⑥ NO ELECTRICAL DEMOLITION IN THIS AREA UNLESS NOTED.



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NORTH

E-2

OF 11