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ARCHITECTURE
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STUDIES
PLANNING
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EXPERT WITNESS

US
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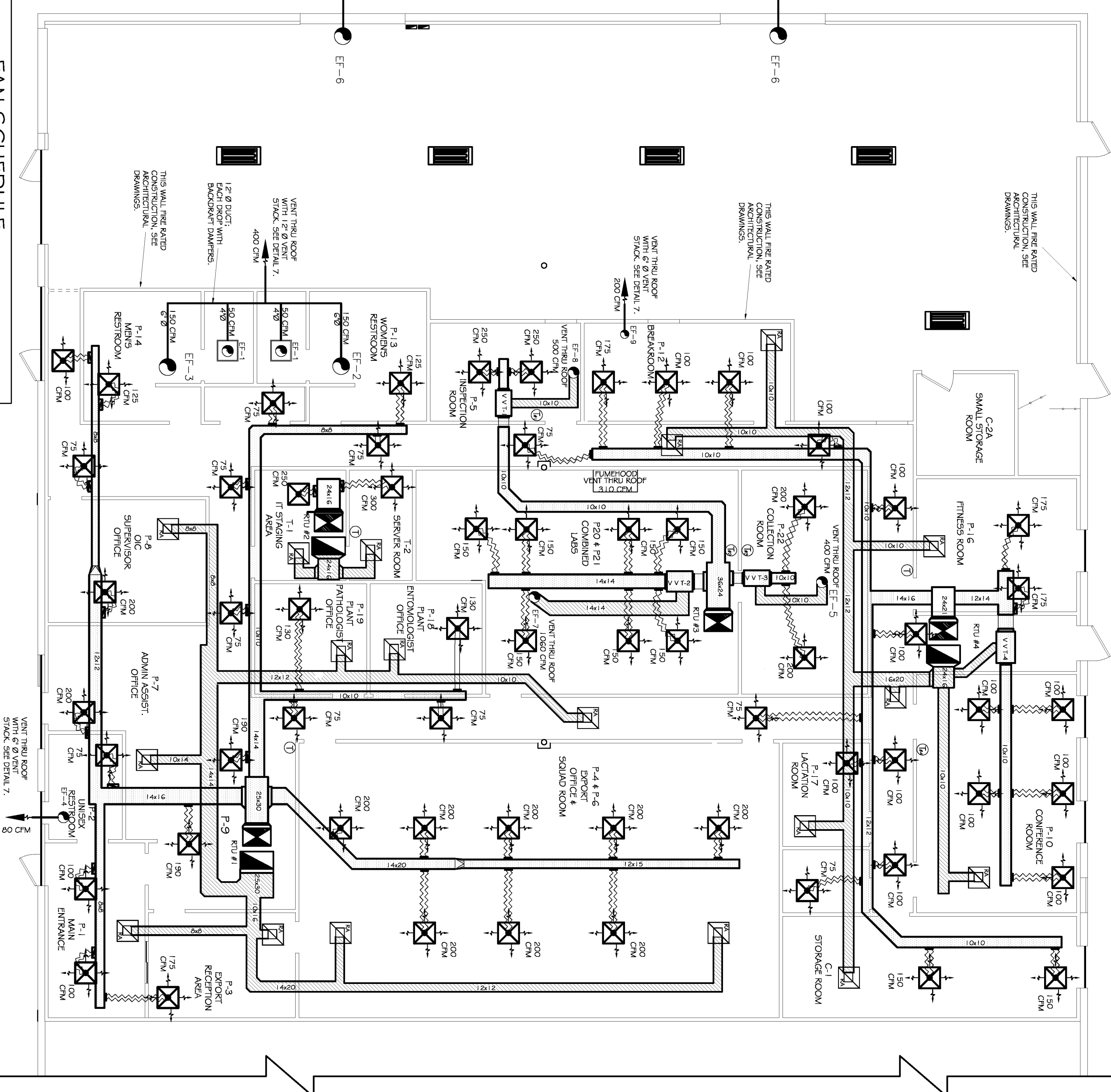
APHIS FACILITY
924 KENNER AVE.
KENNER
LOUISIANA
70062

MECHANICAL
PLAN

REV#3 - 4/27/2012

SCALE: AS NOTED
JOB#:
DATE: 1/15/2012
SHEET

M-1



FAN SCHEDULE

MARK	AREA SERVED	CFM	RPM	CONTROLLED BY	BASES OF DESIGN	REMARKS
EF-1	SHOWERS	30	--	MOTION SENSOR	BROAN 678	① ③
EF-2	WORKING RESTROOM	150	--	MOTION SENSOR	BROAN TORX 150	① ③
EF-3	MENS RESTROOM	150	--	MOTION SENSOR	BROAN TORX 150	① ③
EF-4	LUNEX	80	--	MOTION SENSOR	BROAN TORX 80	① ③
EF-5	COLLECTOR ROOM (LAB)	400	1050	V.V.T.	ACME FAN 110	② ③
EF-6	WAREHOUSE	6000	1720	THERMOSTAT	ACME FAN244	② ③
EF-7	F-20 LAB	1060	1050	V.V.T.	ACME FAN 135G	② ③ ④ ⑤
EF-8	INSPECTION RM	500	1300	V.V.T.	ACME FAN 110	② ③
EF-9	BREAK RM	200	--	SWITCH	BROAN Q2-2	①

MECHANICAL PLAN

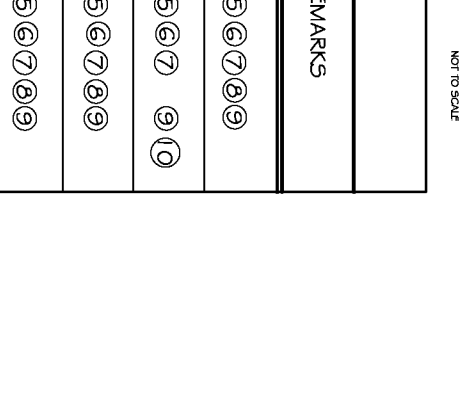
FUMEHOOD NOTES:

1. FUMEHOOD IN LAB SHALL BE A LABCOOK MDL #303000. IT SHALL BE VENTED DIRECTLY OUTSIDE USING 8" THERMOPLASTIC ROUND DUCT. THE USE OF A ZERO PRESSURE WEATHER CAP SHALL BE USED.

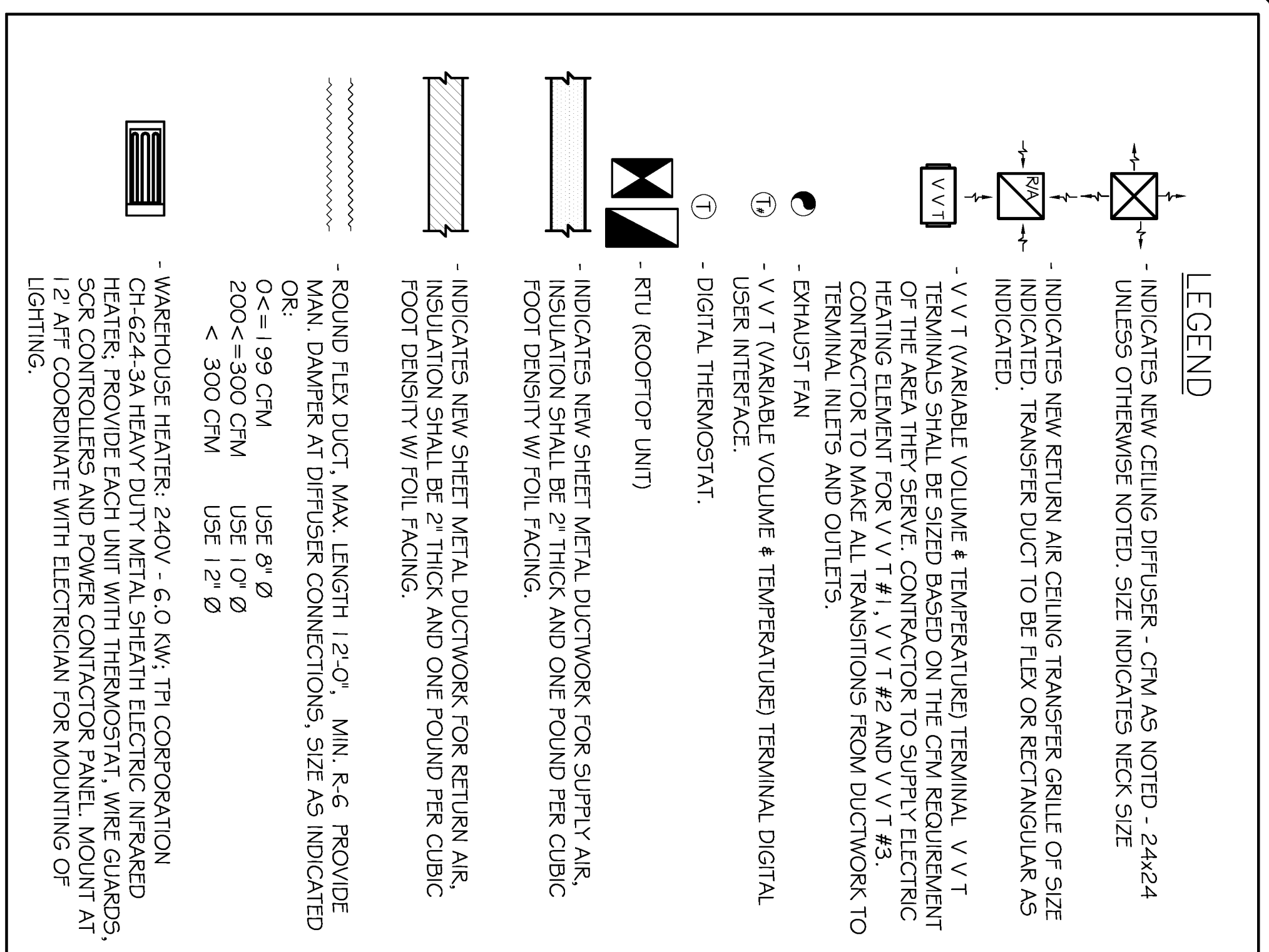
ROOFTOP AIR CONDITIONING UNIT SCHEDULE

MARK	AREA SERVED	TOTAL SUPPLY AIR	MAN AIR	ESP W/ VAV FAN	COOLING DATA	HEATING DATA	UNIT ELECTRICAL DATA	BASES OF DESIGN	UNIT WEIGHT	REMARKS				
					TONS	BTU/HR	WATT		WGT					
RTU-1	FRONT	3955	400	0.5	1.3	2.0	2.0	24KW	2	2400560	65.6	90	1207 LBS.	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨
RTU-2	SERVERS	550	50	0.5	1.0	2.0	2.0	3.6KW	1	240160	27.9	30	353 LBS.	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨
RTU-3	LAB	1950	1950	0.75	2.1	0.0	2.0	11.3	4	2400560	11.0	110	1423 LBS.	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨
RTU-4	REAR	2350	280	0.5	1.0	2.0	2.0	11.5	2	2400560	57.1	60	1099 LBS.	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

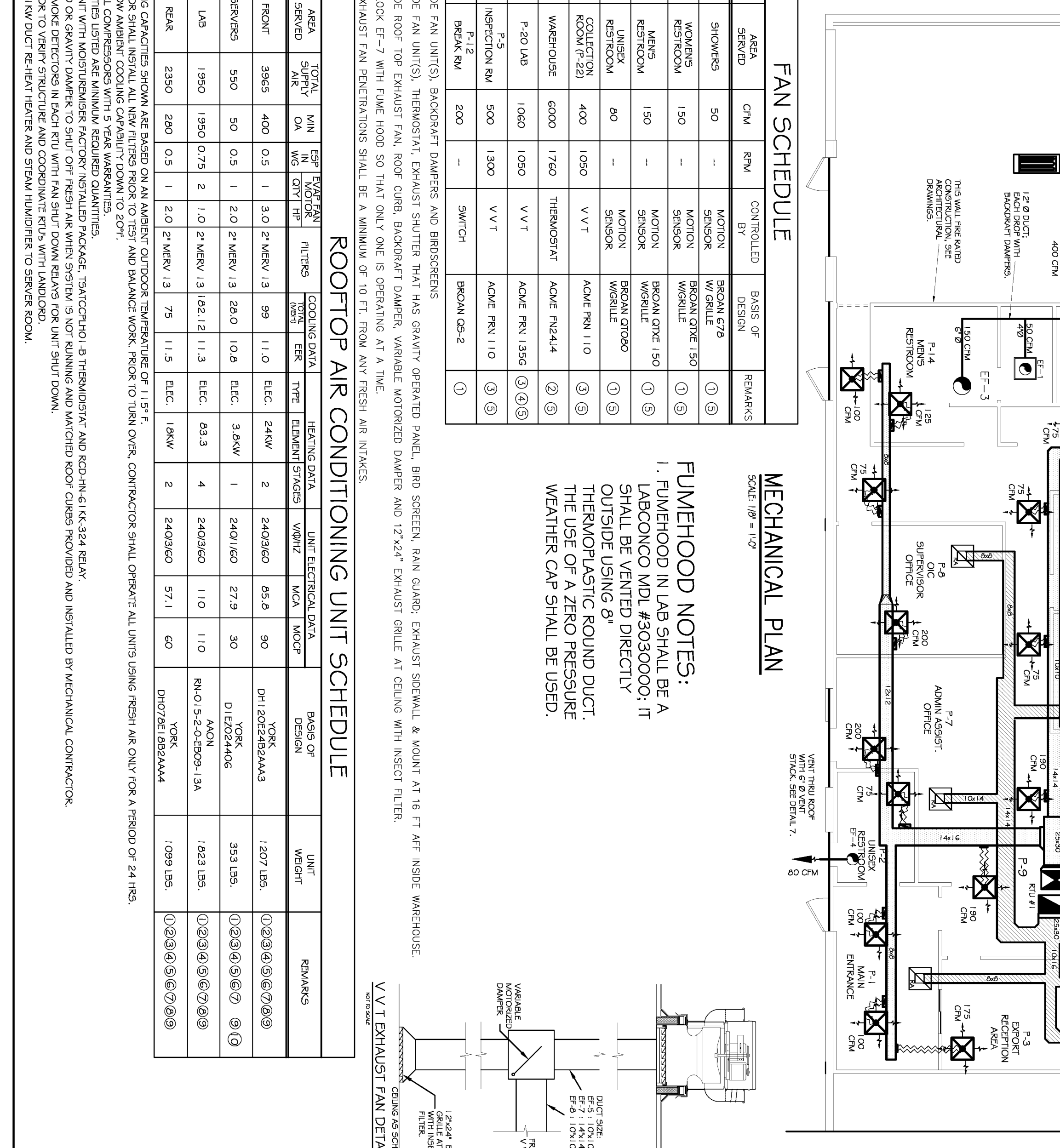
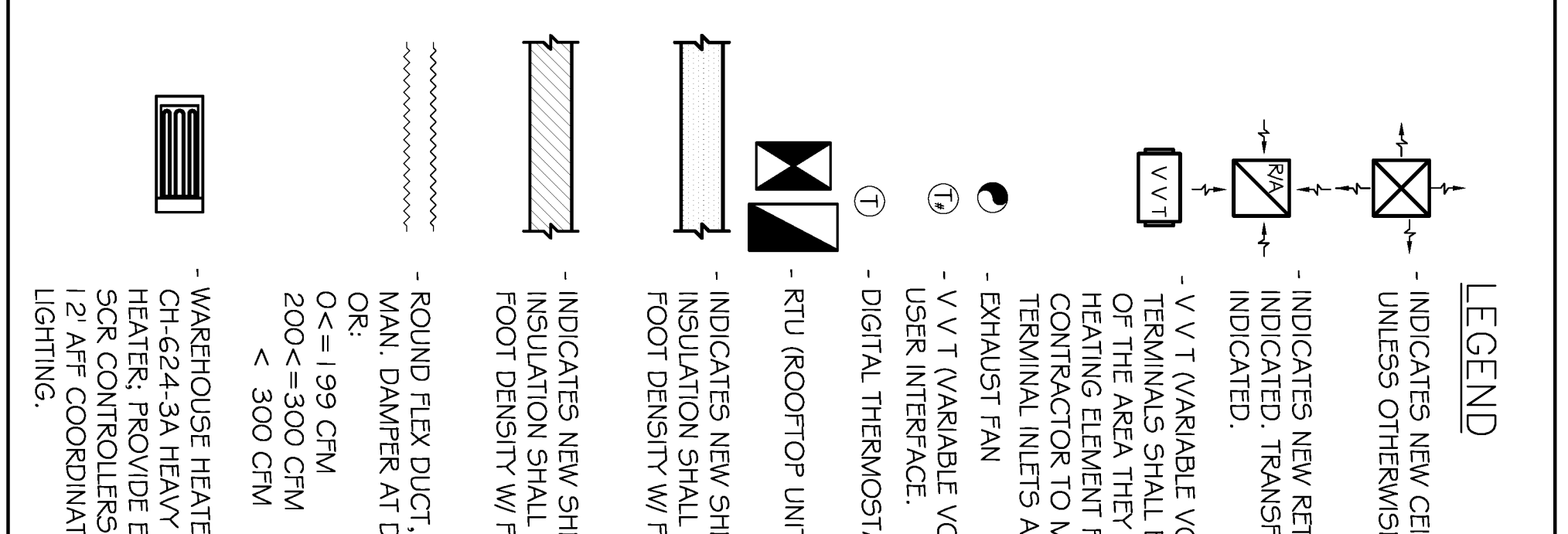
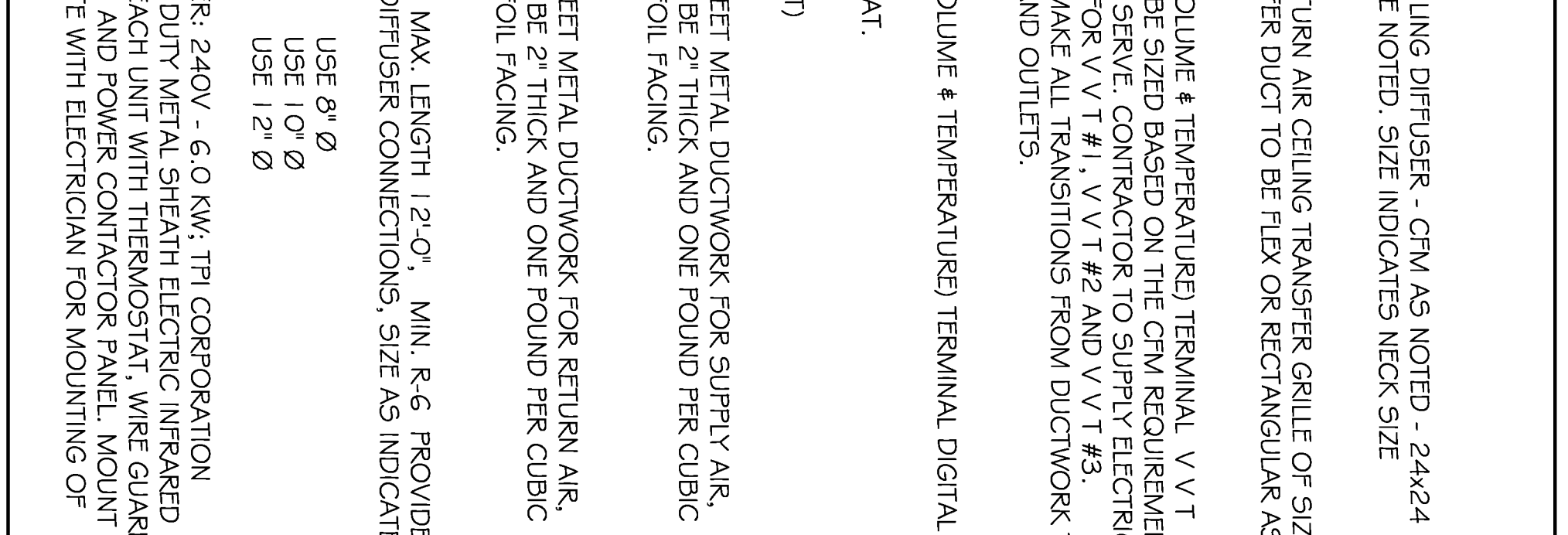
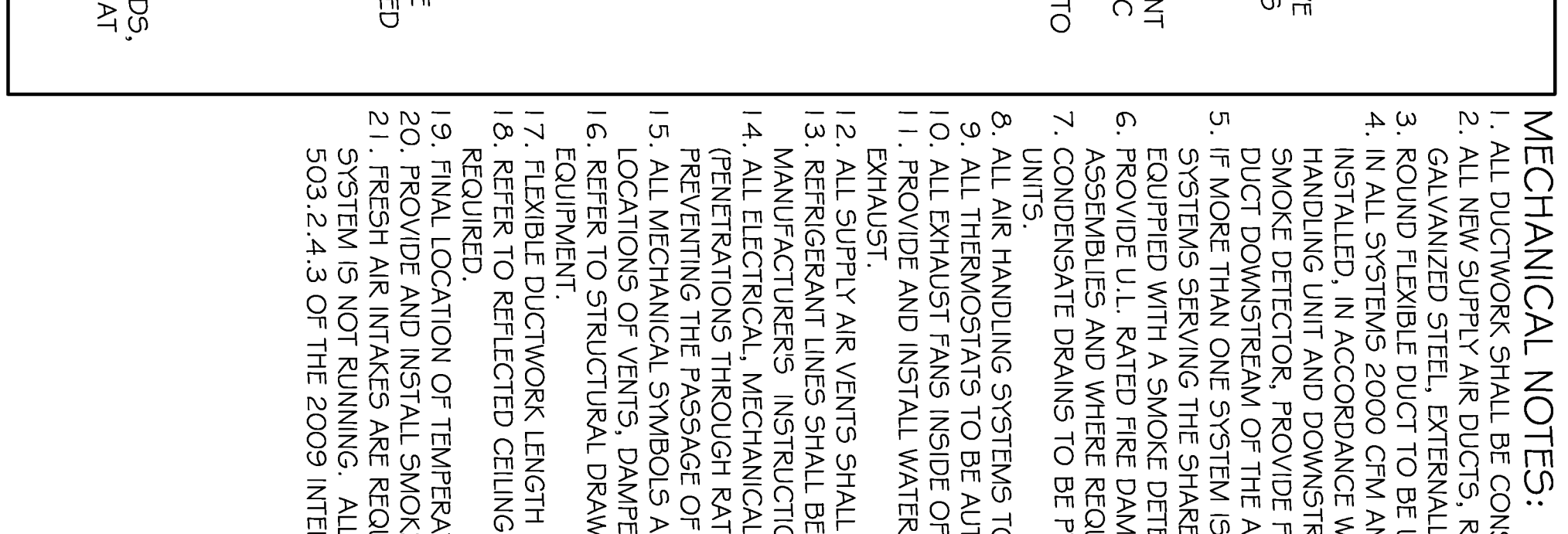
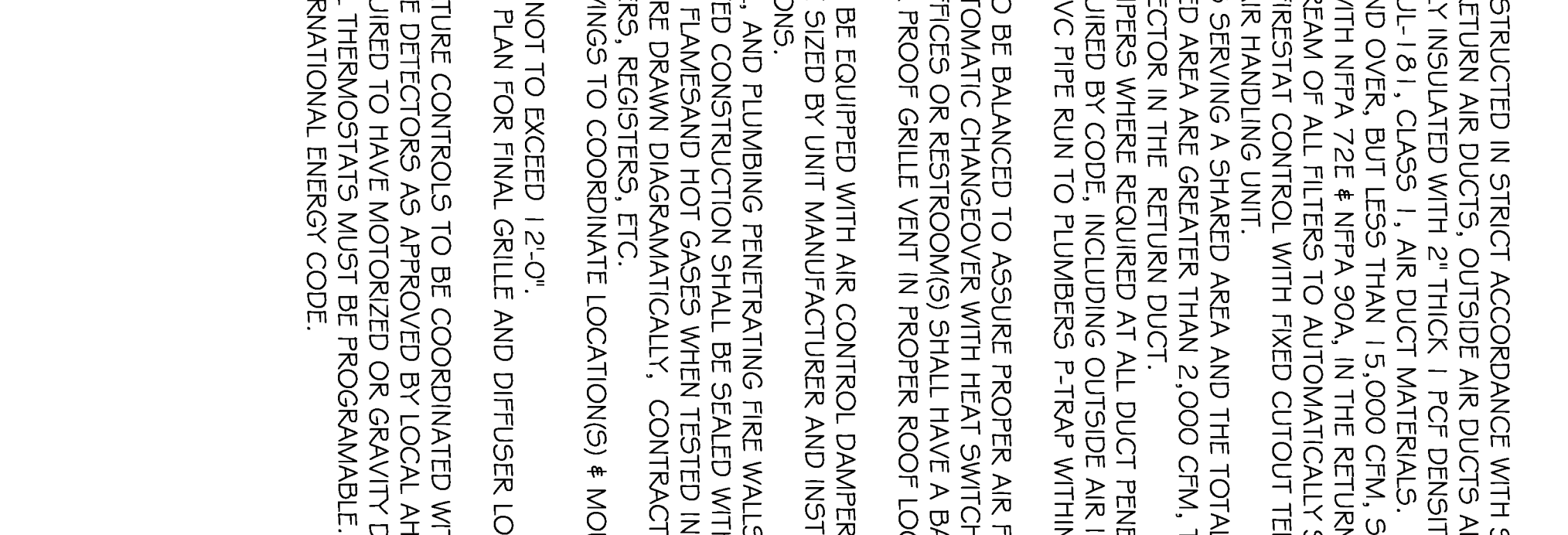
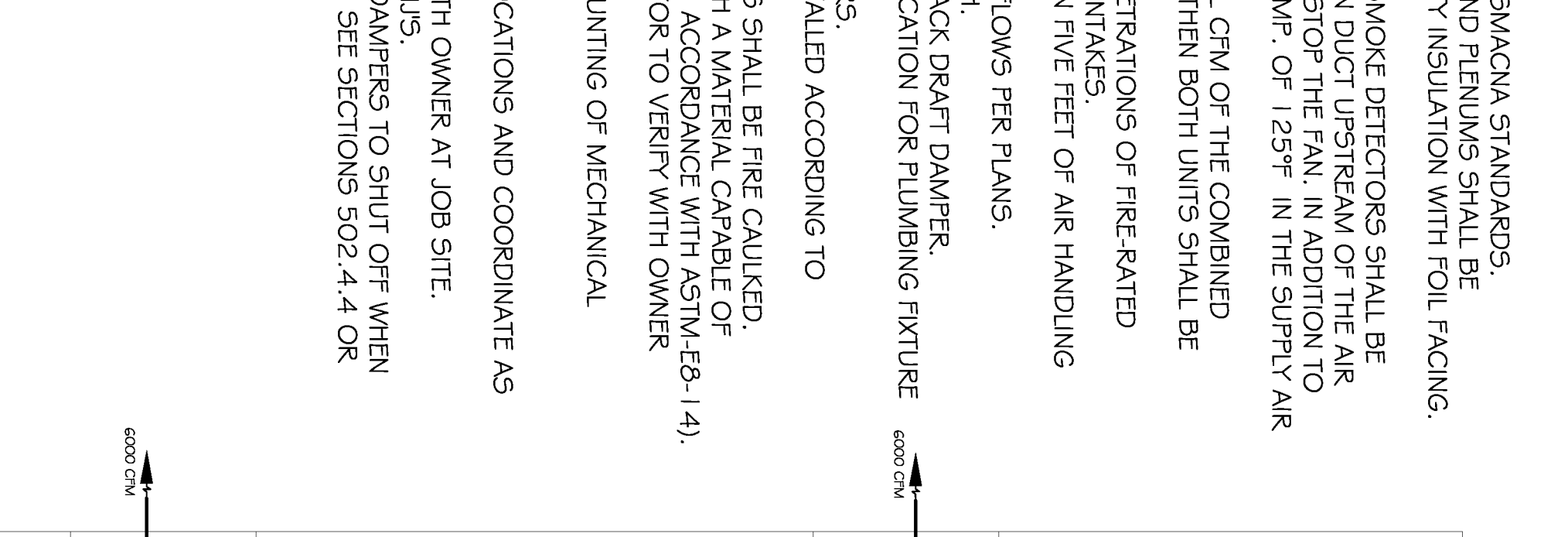
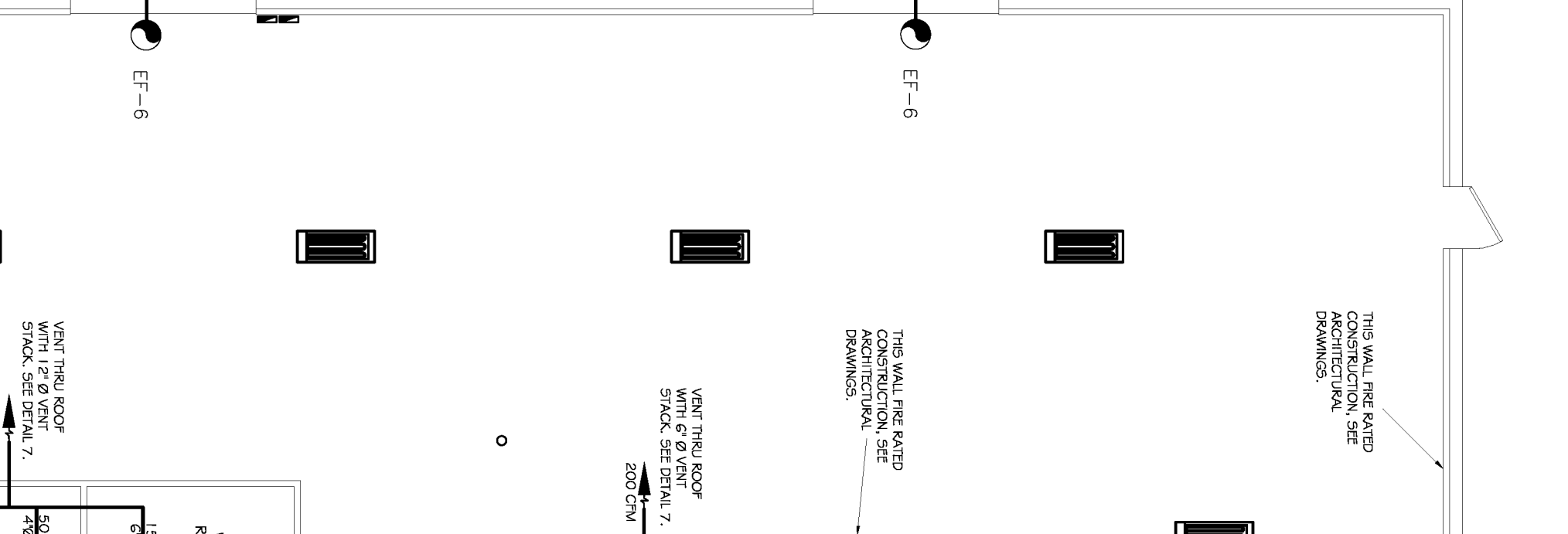
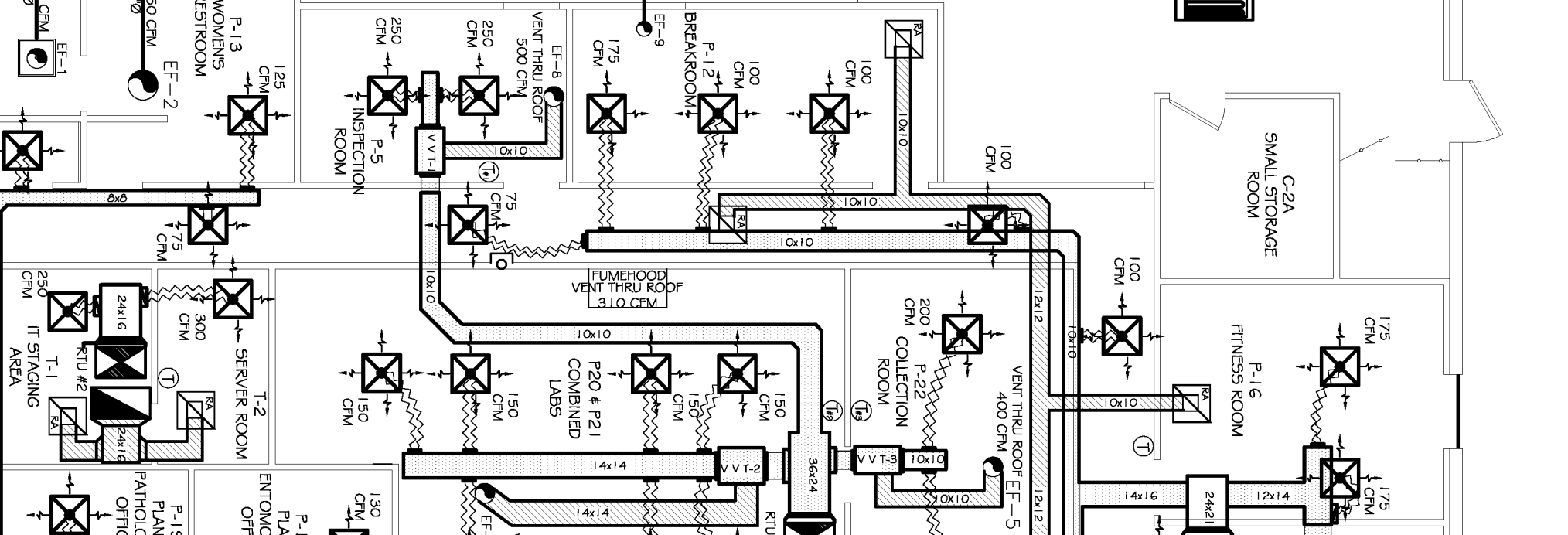
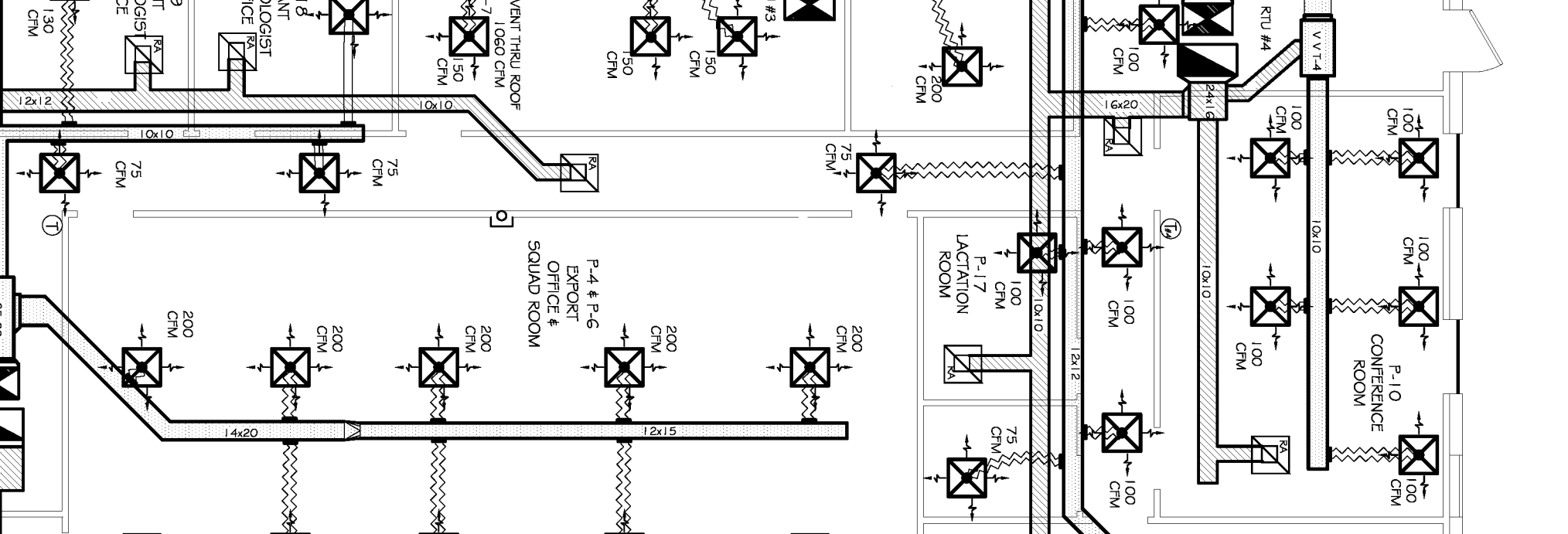
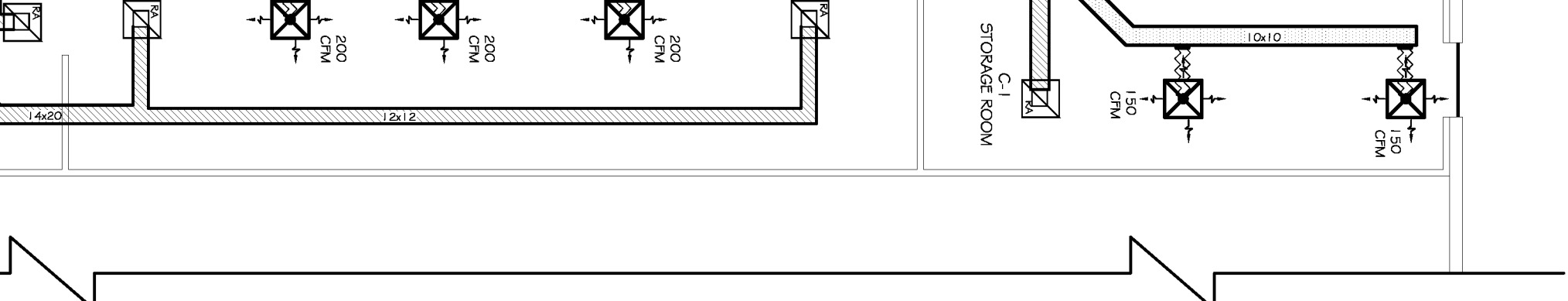
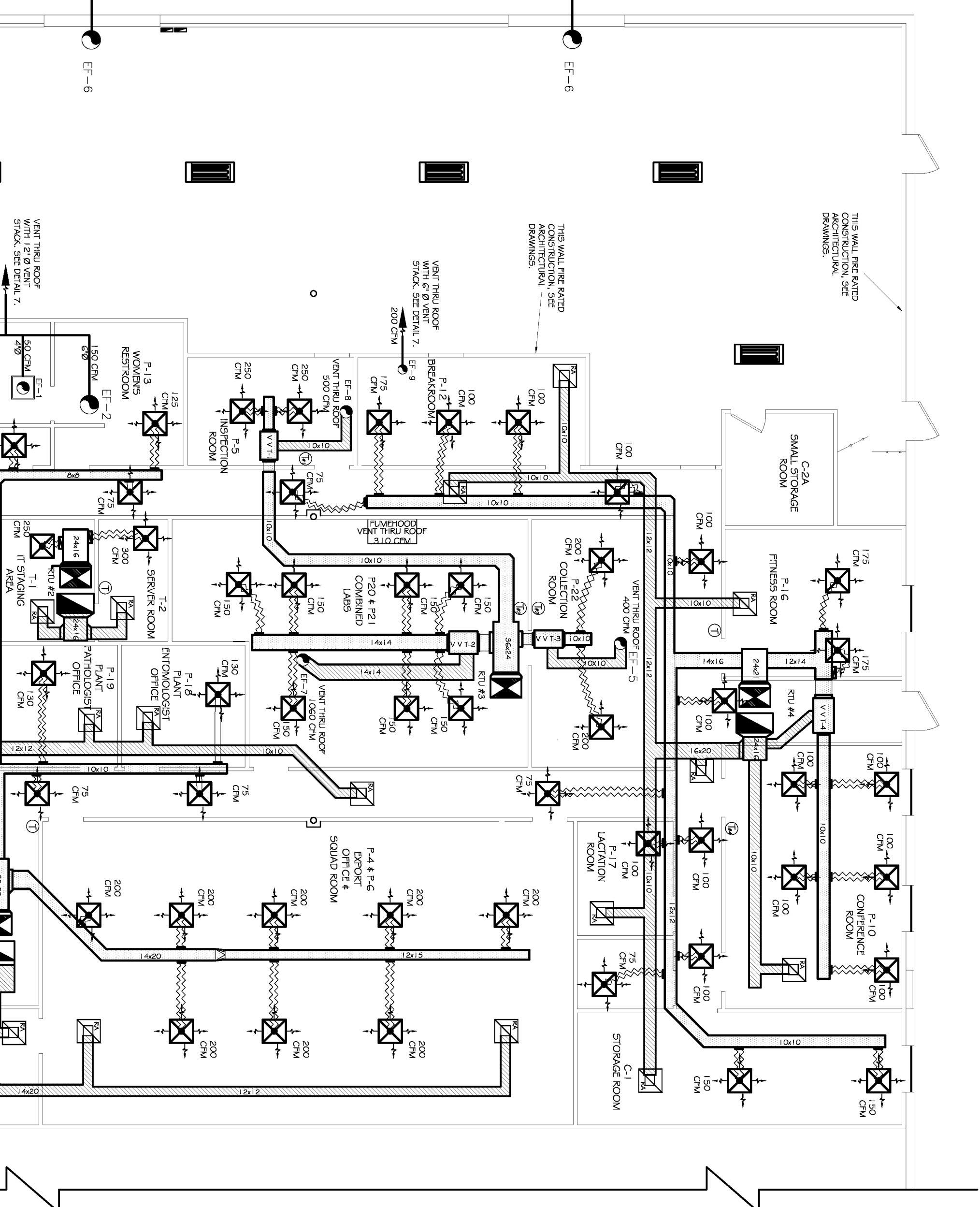
V.V.T. EXHAUST FAN DETAIL



- MECHANICAL NOTES:**
1. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
 2. ALL NEW SUPPLY AIR DUCTS, RETURN AIR DUCTS AND PLenums SHALL BE GALVANIZED STEEL, EXTERNALLY INSULATED WITH 2" THICK 1" PCF DENSITY INSULATION WITH FOIL FACING.
 3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
 4. IN ALL SYSTEMS 2000 CFM AND OVER, BUT LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED, IN ACCORDANCE WITH NFPA 72E & NFPA 90A. IN THE RETURN DUCT UPSTREAM OF THE AIR HANDLING UNIT AND DOWNSTREAM OF ALL FILTERS TO AUTOMATICALLY STOP THE FAN. IN ADDITION TO SMOKE DETECTOR, PROVIDE FIRESTAT CONTROL WITH FIXED CUTOFF TEMP. OF 125°F IN THE SUPPLY AIR DUCT DOWNSTREAM OF THE AIR HANDLING UNIT.
 5. IF MORE THAN ONE SYSTEM IS SERVING A SHARED AREA AND THE TOTAL CFM OF THE COMBINED SYSTEMS SERVING THE SHARED AREA ARE GREATER THAN 2,000 CFM, THEN BOTH UNITS SHALL BE EQUIPPED WITH A SMOKE DETECTOR IN THE RETURN DUCT.
 6. PROVIDE U.L. RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES.
 7. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
 8. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
 9. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
 10. ALL EXHAUST FANS (IN OFFICES OR RESTROOMS) SHALL HAVE A BACK DRAFT DAMPER.
 11. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
 12. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS.
 13. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURERS' INSTRUCTIONS.
 14. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CALKED. PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
 15. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERIES, ETC.
 16. REFER TO STRUCTURAL DRAWINGS TO COORDINATE LOCATIONS) & MOUNTING OF MECHANICAL EQUIPMENT.
 17. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0".
 18. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
 19. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
 20. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ'S.
 21. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING. ALL THERMOSTATS MUST BE PROGRAMABLE. SEE SECTIONS 502.4.4 OR 503.2.4.3 OF THE 2009 INTERNATIONAL ENERGY CODE.



- V.V.T NOTES:**
- CONTRACTOR SHALL PROVIDE A WATMASTER UNIT CONTROLLER FOR V.V.T #1, V.V.T #2 AND V.V.T #3. CONTRACTOR SHALL PROVIDE AN OPEN COIL ELECTRIC DUCT HEATER OF THE SIZE, CAPACITY AND PERFORMANCE SHOWN ON THE JOB SCHEDULE. ALL DUCT HEATERS SHALL BE TESTED AND CERTIFIED TO UL STD 198 UL TYPE 1 TYPE 1A TYPE 1B TYPE 1C TYPE 1D TYPE 1E TYPE 1F TYPE 1G TYPE 1H TYPE 1I TYPE 1J TYPE 1K TYPE 1L TYPE 1M TYPE 1N TYPE 1O TYPE 1P TYPE 1Q TYPE 1R TYPE 1S TYPE 1T TYPE 1U TYPE 1V TYPE 1W TYPE 1X TYPE 1Y TYPE 1Z TYPE 1AA TYPE 1AB TYPE 1AC TYPE 1AD TYPE 1AE TYPE 1AF TYPE 1AG TYPE 1AH TYPE 1AI TYPE 1AJ TYPE 1AK TYPE 1AL TYPE 1AM TYPE 1AN TYPE 1AO TYPE 1AP TYPE 1AQ TYPE 1AR TYPE 1AS TYPE 1AT TYPE 1AU TYPE 1AV TYPE 1AW TYPE 1AX TYPE 1AY TYPE 1AZ TYPE 1BA TYPE 1BB TYPE 1BC TYPE 1BD TYPE 1BE TYPE 1BF TYPE 1BG TYPE 1BH TYPE 1BI TYPE 1BJ TYPE 1BK TYPE 1BL TYPE 1BM TYPE 1BN TYPE 1BO TYPE 1BP TYPE 1BQ TYPE 1BR TYPE 1BS TYPE 1BT TYPE 1BU TYPE 1BV TYPE 1BW TYPE 1BX TYPE 1BY TYPE 1BZ TYPE 1CA TYPE 1CB TYPE 1CC TYPE 1CD TYPE 1CE TYPE 1CF TYPE 1CG TYPE 1CH TYPE 1CI TYPE 1CJ TYPE 1CK TYPE 1CL TYPE 1CM TYPE 1CN TYPE 1CO TYPE 1CP TYPE 1CQ TYPE 1CR TYPE 1CS TYPE 1CT TYPE 1CU TYPE 1CV TYPE 1CW TYPE 1CX TYPE 1CY TYPE 1CZ TYPE 1DA TYPE 1DB 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