

MURRIETA VALLEY Murrieta Valley Unified School District 41870 McAlby Court Murrieta, CA 92562

DISTRICT BID ADDENDUM NO. 5

Date:October 25, 2022To:All BiddersFrom:Nadia Zeien, Director of PurchasingProject:Murrieta Valley Unified School District Tovashal and Thompson HVAC Replacement
ProjectSubject:Mechanical As-built Drawings for Tovashal E.S. and Thompson M.S.;
New Bid Date

The attached Addendum is issued for the purposes of amending certain requirements of the bid and hereby made part of and incorporated in full force as part of the Contract Documents. Unless hereinafter specifically noted or specified otherwise, all work shall confirm to the applicable provisions of the Contract Documents.

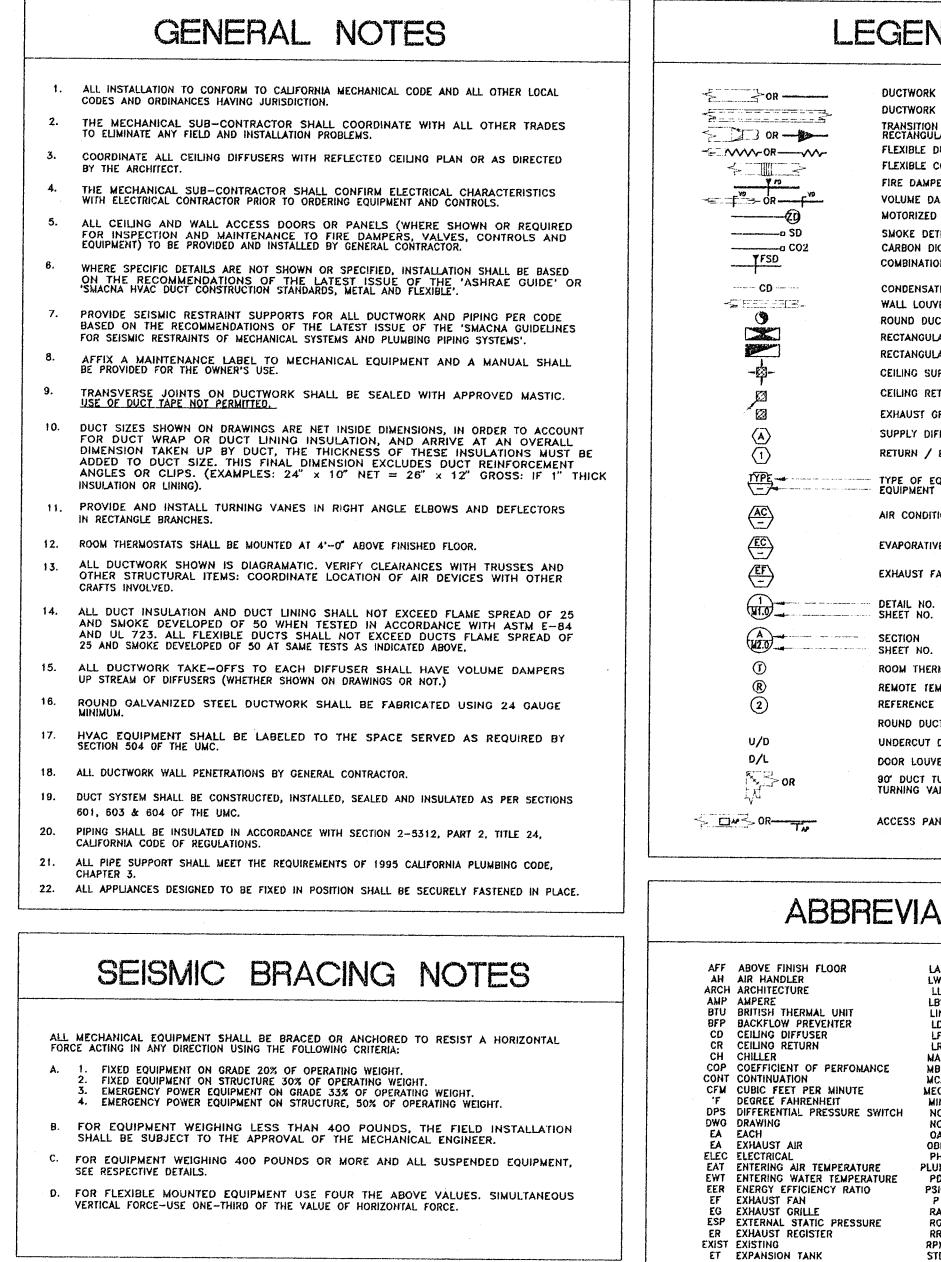
BID ADDENDUM NO. 5 DESCRIPTION:

- 1. Mechanical as-built drawings for Tovashal E.S. and Thompson M.S. (attached). This is a follow-up to the Bid RFI 2 response provided in District Bid Addendum 04 issued on October 21, 2022.
- 2. The Bid Date is being moved to Monday, October 31, 2022 at 1:00p.m. to allow for Bidders to review the as-built drawings and provide pricing accordingly.

ATTACHMENTS:

- Tovashal E.S. Mechanical As-built Drawings (attached)
- Thompson M.S. Mechanical As-built Drawings (attached)

END OF DISTRICT BID ADDENDUM NO. 5



END		CERTIFICATE OF COMPLIANCE Part Lot 3 MECH-1
VORV		PROJECT NAME TOVOSHAL ELEMENTARY SCHOOL
YORK YORK WITH LINING		PROJECT ADDRESS
ITION FROM ROUND DUCT TO NGULAR DUCT OR VICE VERSA		MURRIETA, RIVERSIDE COUNTY PRINCIPAL DESIGNER - MECHANICAL ITELEPHONE Building Permit #
BLE DUCT		SUKHDEV S. MATHAUDHU (909)-686-1776
BLE CONNECTION (FC) DAMPER (D: DYNAMIC, Ş: STATIC)		DOCUMENTATION AUTHOR ILEEN RATHNAM TELEPHONE (909)-686 -1776 Enforcement Agency Use
IE DAMPER RIZED ZONE DAMPER		CENERAL INFORMATION
Z DETECTOR		DATE OF PLANS MAY / 1997 BUILDING CONDITIONED FLOOR AREA BLDGS A, B, C, D, E1, & E2=16004 S.F.
ON DIOXIDE SENSOR		
NATION FIRE/SMOKE DAMPER		BUILDING TYPE X NONRESIDENTIAL HIGH RISE RESIDENTIAL HOTEL/MOTEL GUEST ROOM
INSATE DRAIN		PHASE OF CONSTRUCTION ADDITION ALTERATION
LOUYER D DUCT RISER		COMPLIANCE X PRESCRIPTIVE PERFORMANCE
NGULAR SUPPLY AIR RISER		
NGULAR RETURN / EXHAUST AIR RISER		PROOF OF ENVELOPE COMPLIANCE PREVIOUS ENVELOPE PERMIT
G SUPPLY AIR DIFFUSER TYPE/CFM SHOWN		STATEMENT OF COMPLIANCE
G RETURN / EXHAUST TYPE / CFM SHOWN		This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24
IST GRILLE		Paris I and 6 of the California Code of Regulations. This certificate applies only to building mechanical requirements.
Y DIFFUSER TYPE		The documentation preparer hereby certifies that the documentation is accurate and complete.
N / EXHAUST GRILLE TYPE		DOCUMENTATION AUTHOR ILEEN RATHNAM SIGNATURE MAY 1997
OF EQUIPMENT MENT NO.		The Principal Mechanical Designer hereby certifies that the proposed building design represented in this set of comstruction
UNIT NO.		documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the mechanical regularements contained in sections 110 through 115, 120 through 124, 140 through 142, 144 and 145.
RATIVE COOLING UNIT		Plaase chack one:
ST FAN		X I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am a Civil Engineer, Mechanical Engineer, or Architect.
NO. NO.		I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section 5537.2 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am a
N NO.		licensed contractor preparing documents for work that I have contracted to preform.
THERMOSTAT WITH LOCK-COVER + 48" A.F.F. MAX.		I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section
E TEMPERATURE SENSOR		of the Code to slan this document as the person responsible for its
ENCE NOTES		preparation; and for the following reason:
		PRINCIPAL MECHANICAL DESIGNER - NAME SIGNATURE LIC. NO. DATE
CUT DOOR (BY GENERAL CONTRACTOR)		SUKHDEV S. MATHAUDHU M20306 5/ /97
LOUVER (BY GENERAL CONTRACTOR)		MECHANICAL MANDATORY MEASURES
G VANES		Indiante legation en alege of Mais Direls for Mandalan Man
S PANEL	·	Indicate location on plans of Note Block for Mandatory Measures M-12
		INSTRUCTION TO APPLICANT
		For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Nanual published by the California Energy Commission.
IATIONS		MECH-1: Required on plans for all submittals. Part 2 & 3 may be incorporated in schedules on plans. MECH-2: Required for all submittals; choose appropriate version depending on method of mechanical compliance. MECH-3: Required for all submittals, but form does not have to be completed if location of mechanical equipment schedule is indicated on the form per section 4.3.3. MECH-4: Required for all submittals unless required outdoor ventilation rates and airflows are shown on plans per Secton 4.3.4.
LAT LEAVING AND TENDEDATION		
LAT LEAVING AIR TEMPERATURE	· · · ·	Neurosolenus Concelence Form
LL LIQUID LINE LBS POUNDS		
LIN LINEAR LD LINEAR DIFFUSER		
LF LINEAR FEET LR LIQUID REFRIGERATION		
NAX MAXIMUM MBH THOUSAND OF BTU/HR		

LL LIQUID LINE LBS POUNDS LIN LINEAR LD LINEAR DIFFUSER LF LINEAR FEET LR LIQUID REFRIGERATION MAX MAXIMUM MBH THOUSAND OF BTU/HR MCA MINIMUM CIRCUIT AMPACITY MECH MECHANICAL MIN MINIMUM NC NORMALLY CLOSE NO NORMALLY OPEN OA OUTSIDE AIR OBD OPPOSED BLADE DANPER PH PHASE PLUMB PLUMBING PD PRESSURE DROP

PSIG POUNDS PER SQUARE INCH GAGE P PUMP RA RETURN AIR RG RETURN GRILLE RR RETURN REGISTER RPM REVOLUTION PER MINUTE STD STANDARD SOV SHUT-OFF VALVE SP STATIC PRESSURE SA SUPPLY AIR SR SUCTION REFRIGERATION SL SUCTION LINE TEMP TEMPERATURE TP TOTAL PRESSURE

TO TRANSFER ORILLE

TYP TYPICAL

V VOLT W.G. WATER GAGE

FLA FULL LOAD AMPERE

FPM FEET PER MINUTE FC FLEXIBLE CONNECTOR GPM GALLONS PER MINUTE

HB HEATING BOILER HP HORSE POWER HR HOUR

IN INCHES

HZ HERZ (FREQUENCY)

 THERMOSTATS SHAL
 THERMOSTATS SHAL AUTHORIZED PERSO
 HEAT PUMPS SHALL SUPPLEMENTARY HE ALONE. ELECTRIC TRANSIENT PERIODS ADVANCE, WHEN CO INTELLIGENT RECOVE PRECLUDE THE UNN PERIOD. SUPPLEME
 VENTILATION:
 CONTROLS SHALL B OPERATED AT THE V
 GRAVITY OF AUTOMA PROVIDED ON THE O EXHAUST SYSTEMS.

MANDATORY MEASURES

EQUIPMENT AND SYSTEMS EFFICIENCY:

 \boxtimes

CONTROLS:

ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE COMMISSION, AS SPECIFIED IN THOSE REGULATIONS, THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE. INCLUDED ARE ROOM AIR CONDITIONERS, CENTRAL AIR CONDITIONING HEAT PUMPS (REGARDLESS OF CAPACITY, EXCEPT THAT REQUIREMENTS FOR CENTRAL AIR CONDITIONING HEAT PUMPS WITH COOLING CAPACITY OF 135,000 BTU/HR OR MORE APPLY TO HEATING PERFORMANCE BUT NOT COOLING PERFORMANCE), OTHER CENTRAL AIR CONDITIONERS WITH A COOLING CAPACITY LESS THAN 135,000 BTU/HR, FAN TYPE CENTRAL FURNACES WITH INPUT RATE LESS THAN 400,000 BTU/HR, BOILERS WALL FURNACES, FLOOR FURNACES, ROOM HEATERS, UNIT HEATERS, AND DUCT FURNACES SHALL HAVE BEEN CERTIFIED TO THE CALIFORNIA ENERGY COMMISSION BY ITS MANUFACTURER TO COMPLY WITH THE APPLIANCE EFFICIENCY STANDARDS.

THE FOLLOWING SPACE CONDITIONING EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN 112 OF THE ENERGY EFFICIENCY STANDARDS: ALL AIR CONDITIONERS, HEAT PUMPS AND CONDENSING UNITS LESS THAN 135,000 BTU/HR; ALL WATER CHILLERS; ALL GAS-FIRED BOILERS LESS THAN 300,000 BTU/HR; ALL OIL-FIRED BOILERS LESS THAN 225,000 BTU/HR; AND ALL WARM AIR FURNACES AND COMBINATION WARM AIR FURNACES/AIR-CONDITIONING UNITS LESS THAN 225,000 BTU/HR. FAN TYPE CENTRAL FURNACES SHALL NOT HAVE A PILOT LIGHT.

PIPING, EXCEPT THOSE CONVEYING FLUIDS AT TEMPERATURE BETWEEN 60 DEGREE F AND 105 DEGREE F, OR WITHIN HVAC EQUIPMENT, SHALL BE INSULATED IN ACCORDANCE WITH STANDARDS #123.

AIR HANDLING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED, AND INSULATED AS PROVIDED IN CHAPTER 10 OF THE UNIFORM MECHANICAL CODE.

EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM DURING OFF-HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS AND WEEKENDS; INCORPORATE AN AUTOMATIC HOLIDAY "SHUT-OFF" FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, THEN RESUMES THE NORMALLY SCHEDULED OPERATION; AND HAS PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICE'S PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED.

EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN OCCUPANCY SENSOR TO CONTROL THE OPERATING PERIOD OF THE SYSTEM.

EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED TO CONTROL THE OPERATING PERIOD OF THE SYSTEM.

EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK HEATING THERMOSTAT SETPOINT.

EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK COOLING THERMOSTAT SETPOINT.

EACH SPACE CONDITIONING SYSTEM SERVING MULTIPLE ZONES WITH A COMBINED CONDITIONED FLOOR AREA MORE THAN 25,000 SQUARE FEET SHALL BE PROVIDED WITH ISOLATION ZONES. EACH ZONE SHALL NOT EXCEED 25,000 SQUARE FEET; SHALL BE PROVIDED WITH ISOLATION DEVICES, SUCH AS VALVES OR DAMPERS, THAT ALLOW THE SUPPLY OF HEATING OR COOLING TO BE SETBACK OR SHUT OFF INDEPENDENTLY OF OTHER ISOLATION AREAS; AND SHALL BE CONTROLLED BY A TIME CONTROL DEVICE AS DESCRIBED ABOVE.

EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE. WHERE USED TO CONTROL HEATING, THE CONTROL SHALL BE ADJUSTABLE DOWN TO 55' F OR LOWER. FOR COOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85' F OR HIGHER. WHERE USED TO CONTROL BOTH HEATING AND COOLING, THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEAD BAND OF AT LEAST 5' F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF OR REDUCED TO A MINIMUM.

THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN 'F.

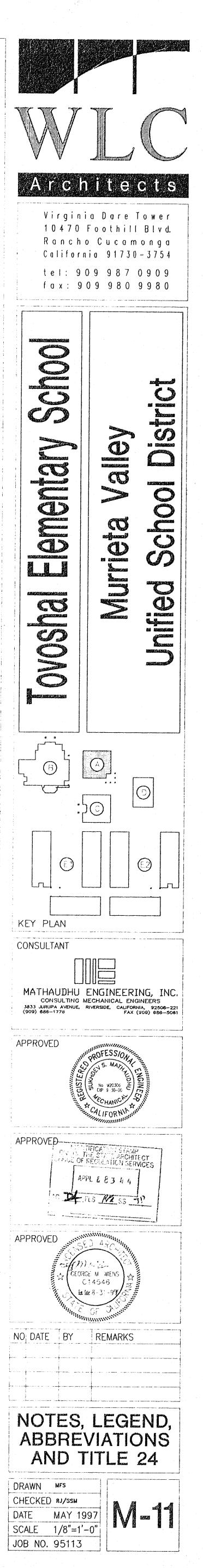
THERMOSTATS SHALL HAVE ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

HEAT PUMPS SHALL BE INSTALLED WITH CONTROLS TO PREVENT ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION IS PERMITTED DURING TRANSIENT PERIODS, SUCH AS START-UPS AND FOLLOWING ROOM THERMOSTAT SETPOINT ADVANCE, WHEN CONTROLS ARE PROVIDED WHICH USE PREFERENTIAL RATE CONTROL, INTELLIGENT RECOVERY, STAGING, RAMPING, OR SIMILAR CONTROL MECHANISMS DESIGNED TO PRECLUDE THE UNNECESSARY OPERATION OF SUPPLEMENTARY HEATING DURING THE RECOVERY PERIOD. SUPPLEMENTARY HEATER OPERATION IS ALSO PERMITTED DURING DEFROST.

CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.
 GRAVITY OF AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND

ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FOR COMBUSTION AIR OPENINGS.

 AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1983), OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1986).
 OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR.



									EXHA	UST F	AN SC	HEDUL										
SYMBOL		$ \begin{array}{c} \left(\begin{array}{c} \mathbb{E}^{F} \\ 1 \\ A \end{array} \right) \left(\begin{array}{c} \mathbb{E}^{F} \\ 2 \\ A \end{array} \right) $	EF 3A			EF 2 B	EF 3 B 6 B			EF B B	EF				EF 3D		EF 3 E1	$ \begin{array}{c} $	($ \begin{array}{c} EF \\ 1 \\ E2 \\ 2 \\ $	EF 3 E2	(EF) (4) $E2$ (5) $E2$
LOCATION		CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	ROOF	ROOF	CEILING		CEILING	CEILING	CEILING	CEILING	CEILING		CEILING	CEILING	CEILING
SERVICE		ROOM A113, A115	ROOM A107	ROOM A109	ROOM B103	ROOM B104	ROOM B102, B120	ROOM B115, B114	ROOM B123	KITCHEN HOOD	POT WASHER	ROOM B107		ROOM D102,D103	ROOM D106	ROOM E102,E103	ROOM E104	ROOM E105,E106		ROOM 2202,E203	ROOM E204	ROOM E205,E206
AKE		LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK		LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK		LOREN COOK	LOREN COOK	LOREN COOK
ODEL		GEMINI GC 320	GEMINI GC 240	GEMINI GC 220	GEMINI GN 520	GEMINI GN 420	GEMINI GN 220	GEMINI GN 520	GEMINI GC 240	LO-PRO 195-LPB	ACRU-B 100 R 2B	GEMINI GC-520		GEMINI GC 240	GEMINI GC-520	GEMINI GN 520	GEMINI GC 220	GEMINI GC 240		GEMINI GN 520	GEMINI GC 220	GEMINI GC 240
∢	C.F.M	160	80	60 -	270	220	60	300	80	4,500	600	300		80	300	280	60	80		280	60	80
2 DAT	S.P.	0.25"	0.25"	0.25"	0.375"	0.375"	0.25"	0.375"	0.25"	1.75"	0.625″	0.25"		0.25"	0.25"	0.375"	0.25"	0.25"		0.375"	0.25"	0.25"
LOWEI	ТҮРЕ	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL		CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL		CENTRIFUGAL	CENTRIFUGAL	_ CENTRIFUGAL
<u> </u>	DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	BELT	BELT	DIRECT		DIRECT	DIRECT	DIRECT	DIRECT	DIRECT		DIRECT	DIRECT	DIRECT
н.	Р.	77 WATTS	65 WATTS	41 WATTS	171 WATTS	172 WATTS	40 WATTS	171 WATTS	65 WATTS	3	1/6	172 WATTS		65 WATTS	172 WATTS	171 WATTS	41 WATTS	65 WATTS		171 WATTS	41 WATTS	65 WATTS
<u>∢</u> R.I	Р.М.	1365	1200	1050	1200	1075	1050	1200	1200	1475	1600	1205	<u></u>	1200	1205	1200	1050	1200		1200	1050	1200
ICAL	ν	115	115	115	115	115	115	115	115	460	115V	115V		115	115V	115	115	115		115	115	115
ECTR	РН	1	1	1	1	1	1	1	1	3	1	1		1	1	· 1	1	1	•	1	1	1.
	HZ	60	60	60	60	60	60	60	60	60	60	60		60	60	60	60	60		60	60	60
. LBS		25	22	22	32	30	22	32	22	276	50	32		22	32	32	22	22		32	22	22
MARKS:		FURNISH UNIT W/ ROOF JACK			FURNISH UNIT W/ ROOF JACK				B	FURNISH UNIT W/24" HIGH VENTED FAC- TORY CURB, GREASE TERMINATOR.	FURNISH UNIT W/FACTORY CURB.	FURNISH UNIT W/ROOF JACK.		FURNISH UNIT W/ ROOF JACK					F	URNISH UNIT W/ ROOF JACK		<u>Here</u>

				AIR C	STRIBU	TION	ISC	HED	DULE
TEM	DESCRIPTION	NECK SIZE (IN.)	PANEL SIZE (IN.)	CFM RANGE	ACCESSORIES	CEILING TYPE	MAKE	MODEL	REMARKS
	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	6x6	24x24	UP TO 170	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	T-BAR	METAL AIRE	SERIES 9000	1 DIRECTION ARROWS ON DRAWING SHOW FLOW PATTERN.
B	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	8x8	24x24	171 TO 280	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	T-BAR	METAL	SERIES 9000	2 CONTRACTOR TO PROVIDE REQUIRED FRAME STYLE TO
(C)	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	10x10	24x24	281 TO 420	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	T-BAR	METAL AIRE	SERIES 9000	ACCOMMODATE CEILING AS SHOWN ON ARCHITECTURAL DRAWING.
D	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	12x12	24×24	421 TO 580	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	T-BAR	METAL AIRE	SERIES 9000	3 FLEXIBLE BRANCH RUNOUT TO BE SAME SIZE AS NECK SIZE.
(E)	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	14x14	24×24	581 TO 750	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	T-BAR	METAL AIRE	SERIES 9000	4 FIELD INSTALLED ROUND ADAPTER CONNECTED TO
(F)	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	16×16	24x24	751 TO 950	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	T-BAR	METAL AIRE	SERIES 9000	SQUARE NECK. MATERIAL = SEE SPECIFICATIONS.
(C)	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	20×20	24x24	1301 TO 1500	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	T-BAR	METAL AIRE	SERIES 9000	MATERIAL - SEE SPECIFICATIONS.
(H)	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	6x6		UP TO 170	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	HARD	METAL AIRE	SERIES 9000	
	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	8x8	<u> </u>	171 TO 280	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	HARD	METAL AIRE	SERIES 9000	
$\langle \mathbf{J} \rangle$	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	10x10	-	281 TO 420	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	HARD	METAL AIRE	SERIES 9000	
(K)	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	12x12		421 TO 580	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	HARD	METAL AIRE	SERIES 9000	
	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	14×14		581 TO 750	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	HARD	METAL AIRE	SERIES 9000	
$\langle M \rangle$	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	16x16		751 TO 950	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	HARD	METAL AIRE	SERIES 9000	
$\langle N \rangle$	MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER	1 8 ×18		951 TO 1300	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	HARD	METAL AIRE	SERIES 9000	
\odot	SIDEWALL SUPPLY AIR REGISTER	18x6		200-350	OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER		METAL AIRE	SERIES V 4000	
	PERFORATED CEILING	6x6	24x24	UP TO 200	OPPOSED BLADE DAMPER	T-BAR	METAL	SERIES	
$\overline{(2)}$	RETURN PERFORATED CEILING	8x8	24x24	201 TO 310	AND ROUND NECK ADAPTER OPPOSED BLADE DAMPER	T-BAR	AIRE METAL	7000R SERIES	
	RETURN PERFORATED CEILING	10×10	24×24	311 TO 480	AND ROUND NECK ADAPTER OPPOSED BLADE DAMPER	T-BAR	AIRE METAL	7000R SERIES	
	RETURN PERFORATED CEILING	12x12	24x24	481 TO 700	AND ROUND NECK ADAPTER OPPOSED BLADE DAMPER	T-BAR	AIRE METAL	7000R SERIES	
	RETURN PERFORATED CEILING	14×14	24x24	701 TO 900	AND ROUND NECK ADAPTER OPPOSED BLADE DAMPER	HARD	AIRE	7000R SERIES	
<u>(6)</u>	RETURN PERFORATED CEILING	18x18	24x24	901 TO 1300	AND ROUND NECK ADAPTER OPPOSED BLADE DAMPER	HARD	AIRE METAL	RHD SERIES	
$\overline{\bigcirc}$	RETURN PERFORATED CEILING	20x20	24x24	1301 TO 1500	AND ROUND NECK ADAPTER	HARD	AIRE	RHD SERIES	
8	RETURN RETURN/EXHAUST	6x6		UP TO 180	AND ROUND NECK ADAPTER	HARD	AIRE METAL	RHD SERIES	
9	REGISTÉR RETURN/EXHAUST REGISTER	8×8		181 TO 300	AND ROUND NECK ADAPTER	HARD	AIRE METAL	RHD SERIES	
	REGISTER RETURN/EXHAUST REGISTER	10x10		301 TO 460	AND ROUND NECK ADAPTER OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER	HARD	AIRE METAL AIRE	RHD SERIES	
	REGISTER REGISTER	12x12		461 TO 650	OPPOSED BLADE DAMPER	HARD	METAL	RHD SERIES	
12	REFURN/EXHAUST REGISTER	14x14		651 TO 900	AND ROUND NECK ADAPTER	HARD	METAL	RHD SERIES	
13	REFURN/EXHAUST REGISTER	18x18		901 TO 1300	AND ROUND NECK ADAPTER	HARD	AIRE METAL	RHD SERIES	
	REFURN/EXHAUST REGISTER	20×20		1301 TO 1500	AND ROUND NECK ADAPTER OPPOSED BLADE DAMPER	HARD	AIRE METAL	RHD SERIES	
13	RETURN/EXHAUST	24x24		1501 TO 2000	AND ROUND NECK ADAPTER	HARD	AIRE METAL	RHD SERIES	
46	REGISTER RETURN/EXHAUST	48×24		3001 TO 4000	AND ROUND NECK ADAPTER	HARD	AIRE METAL	RHD SERIES	
47	REGISTER SIDEWALL RETURN	16x6		200-350	AND ROUND NECK ADAPTER		AIRE METAL	RHD SERIES	
42	REGISTER SIDEWALL EXHAUST REGISTER	8x4		60	AND ROUND NECK ADAPTER OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER		AIRE METAL AIRE	4002 SERIES 4002	

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SYMB	OL			$\begin{pmatrix} AC \\ I \end{pmatrix}_{B}$	$\left\langle \frac{AC}{2} \right\rangle_{B}$	$\begin{pmatrix} AC\\ 3 \end{pmatrix}_B$	AC	$\begin{pmatrix} AC \\ 1 \\ D \\ 2 \\ D \end{pmatrix}$	$\begin{pmatrix} AC \\ I \\ E \\ \end{pmatrix} = 1 \begin{pmatrix} AC \\ I \\ E \\ E \\ \end{pmatrix} = 2$	
LOCA	TION		ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
SERV	•••••••••••••••••••••••••••••••••••••••		BLDG. A	BLDG. B	BLDG. B	BLDG. B	BLDG. C	BLDG. C	BLDG. E(AREA 1)	KITCHE
MAKE		an managan kanangan k	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	BLDG. E(AREA 2)	ARCTIC
MODE	· · ·		YCD-151	YCD-074	YCD-300	YCD-121	YCD-181	YCD-074	YCD-074	ES-630
TYPE			ROOF TOP	ROOF TOP	ROOF TOP	ROOF TOP	ROOF TOP	ROOF TOP	ROOF TOP	ROOF T
		C.F.M. O.A	GAS/ELECTRIC	GAS/ELECTRIC	CO2 SENSO		GAS/ELECTRIC	GAS/ELECTRIC 800	GAS/ELECTRIC 800	
DAT	SUPPLY	C.F.M. S.A.	4,800	2,400	10,000	4,000	6,000	2,400	2,400	3,600
FAN	r	EXT. S.P. IN W.G.	0.75	0.75	1.00	0.75	1.0	0.75	0.75	0.50
	SUPPLY	V	460	460	460	460	460	460	460	115
	{	РН	3	3	3	3	3	3	. 3	1
	POWER	HZ	60	60	60	60	60	60	60	60
	COMP- RESSOR	RLA	(2) 10.6	10	(2) 17.7	(2) 10	(2) 12.7	10	10	
¥	CON RES	LRA	64/71	71	(12) 95	(2) 71	(2) 64	71	71	
DATA		V	460	460	460	460	460	460	460	115
ELECTRICAL	R FAN	рн	3	3	3	3	3	3	3	1
ELEC	INDOOR	НР	3	1	7.5	2	3	1	1	3/4
		FLA	4.8	3.2	11.0	3.4	4.8	3.2	3.2	
	FAN	γ	460	460	460	460	460	460	460	_
	1 . 1	РН	1	1	1	1	1	1	1	
	outboor	НР	(2) 0.50	0.25	(2) 1.0	1	(2) 0.50	0.25	0.25	
		FLA	(2) 1.6	0.90	(2) 2.9	2.9	(2) 1.6	0.90	0.90	-
	z	ν	460		460	460	460	-		
	ST FAN	РН	1		1	1	1			_
	EXHAUST	HP	3/4		3/4	3/4	3/4			
÷ in the	ш	FLA	3.2		3.2	3.2	3.2			
.S.A.	•	DB 'F/ WB 'F	80/67	80/67	80/67	80/67	80/67	80/67	80/67	
COOL.	HD	SENSIBLE	104,800	51,200	209,000	88,600	115,500	51,200	51,200	
S S	Ē B I	TOTAL	140,500	66,600	272,000	117,400	145,000	66,600	66,600	
EATI TUH	NG CA (LO	PACITY W)	150,000	120,000	250,000	150,000	250,000	120,000	120,000	
NIT	EER		10	10	9	10	10	10	10	
TINI	AFUE		81%	81%	80%	81%	81%	81%	81%	
Л. L	BS	<u>.</u>	1.940	1,010	3,020	1,550	2,500	1,010	1,010	500
ILTER	rs Er &	C17F	AS PER MANUFACTURER - RECOMENDATION						-حتن	
EMA			NUNIT W/POWERED EXHAUST ECONOMIZER AND FURNISH W/ ROOF	NOTES ①&②	ECONOMIZER	EXHAÚST ECONOMIZER AND FURNISH	EXHAÚST ECONOMIZER	NOTES ①&②	NOTES ①&②	note ②

NOTES:

1 UNIT WITH ECONOMIZER.

2) FURNISH UNIT WITH ROOF CURB.

3 CMC 608

SHUT-OFF FOR SMOKE CONTROL. HVAC UNITS IN EXCESS OF 2,000 CFM SHALL BE EQUIPPED WITH AUTOMATIC SHUT-OFF BY SUPPLY AIR DUCT SMOKE DETECTION.

NE DA	MPER 8	SCHEDU	LE
ROOMS SERVED	DESIGN CFM	DAMPER INLET SIZE	ENVIRO-TEC ETVT-II
C102	2,800	14	SDV 942S #14
C109	1,560	12	#12
C108	480	8	#8
C107	230	5	#5
C106	210	5	#5
C105	300	5	#5
	· · · · · · · · · · · · · · · · · · ·		
	ROOMS SERVED C102 C109 C108 C107 C106	ROOMS SERVED DESIGN CFM C102 2,800 C109 1,560 C108 480 C107 230 C106 210	SERVED CFM INLET SIZE C102 2,800 14 C109 1,560 12 C108 480 8 C107 230 5 C106 210 5

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BYPASS DAMPER SCHEDULE BYPASS DAMPER BD ROOMS SERVED DESIGN CFM DAMPER INLET SIZE ENVIRO-TEC ETVT-II SDR 942S #19 8D-1 3,300 28 x 14 . **---**--

INSU	LAT	ION	SCH	EDUL	
1	NSULATIO	N CHAR	ACTERISTICS		TITLE-24
PRODUCT	k	R MIN	MIN. THICKNESS	DENSITY	COMPLIANCE
GLASS FIBER DUCT WRAP FOIL FACED	0.28	5.4	1-1/2*	0.75 LBS./CU.FT.	PART 6 SECTION 12
GLASS FIBER DUCT LINER	0.28	3.6	· 1 ²⁰	1.3 LBS./CU.FT.	PART 6 SECTION 12
	I PRODUCT GLASS FIBER DUCT WRAP FOIL FACED GLASS FIBER	INSULATIO PRODUCT k GLASS FIBER DUCT WRAP 0.28 FOIL FACED GLASS FIBER 0.28	INSULATION CHAR PRODUCT & R MIN GLASS FIBER DUCT WRAP 0.28 5.4 FOIL FACED 5.4	INSULATION CHARACTERISTICS PRODUCT k R MIN MIN. THICKNESS GLASS FIBER DUCT WRAP 0.28 5.4 1-1/2' FOIL FACED 5.4 1-1/2'	PRODUCT k R MIN MIN. THICKNESS DENSITY GLASS FIBER 0.28 5.4 1-1/2' 0.75 LBS./CU.FT. FOIL FACED 0.28 7.6 1-1/2' 0.75 LBS./CU.FT.

THERMAL PERFORMANCE SHALL BE TESTED IN ACCORDANCE WITH ASTM C-177 @ 75' MEAN TEMPERATURE.

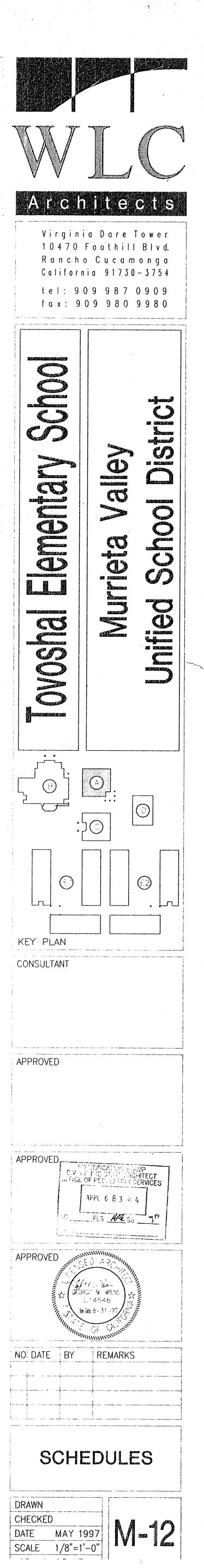
NOTE:

~	DESIC	GN CO	NDITIC	ONS	
	OUTDOOR TE	MPERATURE		INDOOR TEMPE	RATURE
PERIOD	*F DB	'F WB	F DB	'F WB	% RH
SUMMER	102	69	78		50
WINTER	34		70		



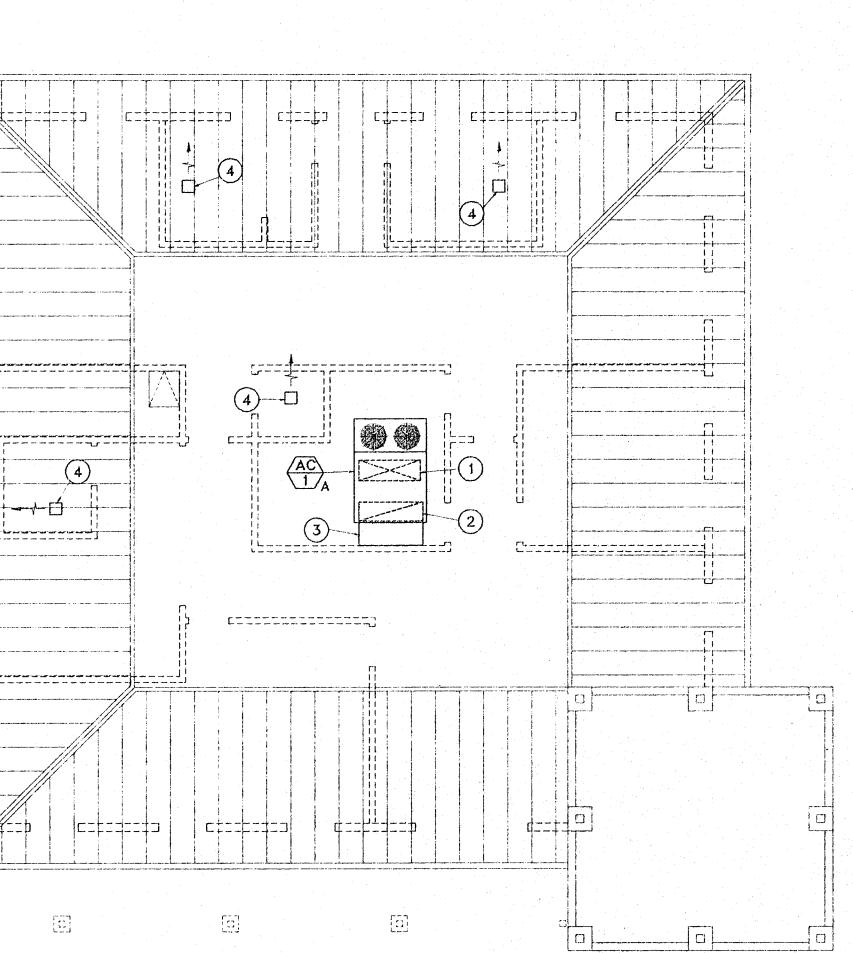
MATHAUDHU ENGINEERING, INC. CONSULTING MECHANICAL ENGINEERS 3833 JURUPA AVENUE, RIVERSIDE, CALIFORNIA, 92506-221 (909) 686-1776 FAX (909) 686-5061

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	MECHANICAL FLOOR PLAN
•	
	MECHANICAL ROOF PLAN



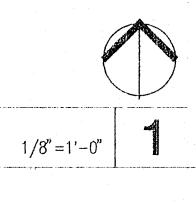


REFERENCE NOTES:

54. 10

- 1 52" x26" LINED SUPPLY AIR DUCT UP THRU ROOF TO AC-1A. PROVIDE FLEXIBLE CONNECTION AS REQUIRED.
- (2) 60"×18" LINED RETURN AIR DUCT UP THRU ROOF TO AC-1A. PROVIDE FLEXIBLE CONNECTION AS REQUIRED.

- 3 8"¢ EXHAUST AIR DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED. CONNECT DUCT TO EXHAUST FAN WITH FLEXIBLE CONNECTORS.
- (4) 5"Ø EXHAUST AIR DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED. CONNECT DUCT TO EXHAUST FAN WITH FLEXIBLE CONNECTORS.
- 5 6"¢ EXHAUST AIR DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED. CONNECT DUCT TO EXHAUST FAN WITH FLEXIBLE CONNECTORS.
- 6 EXHAUST FAN IN CEILING PLENUM.
- (7) FULL LOUVER DOOR WITH SCREEN BY OTHERS.



1/8"=1'-0"

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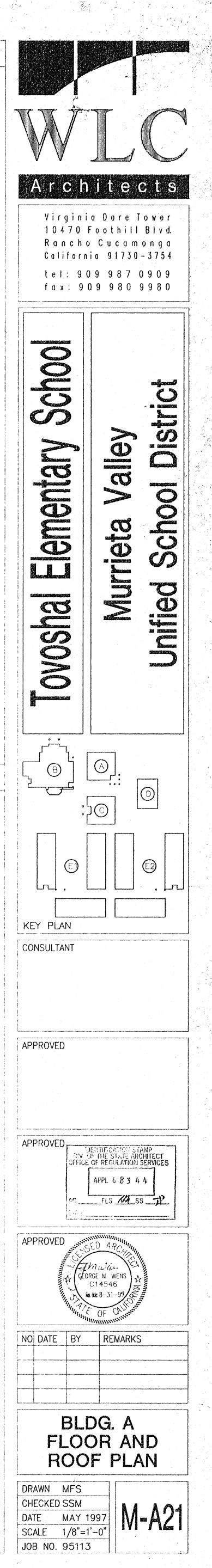
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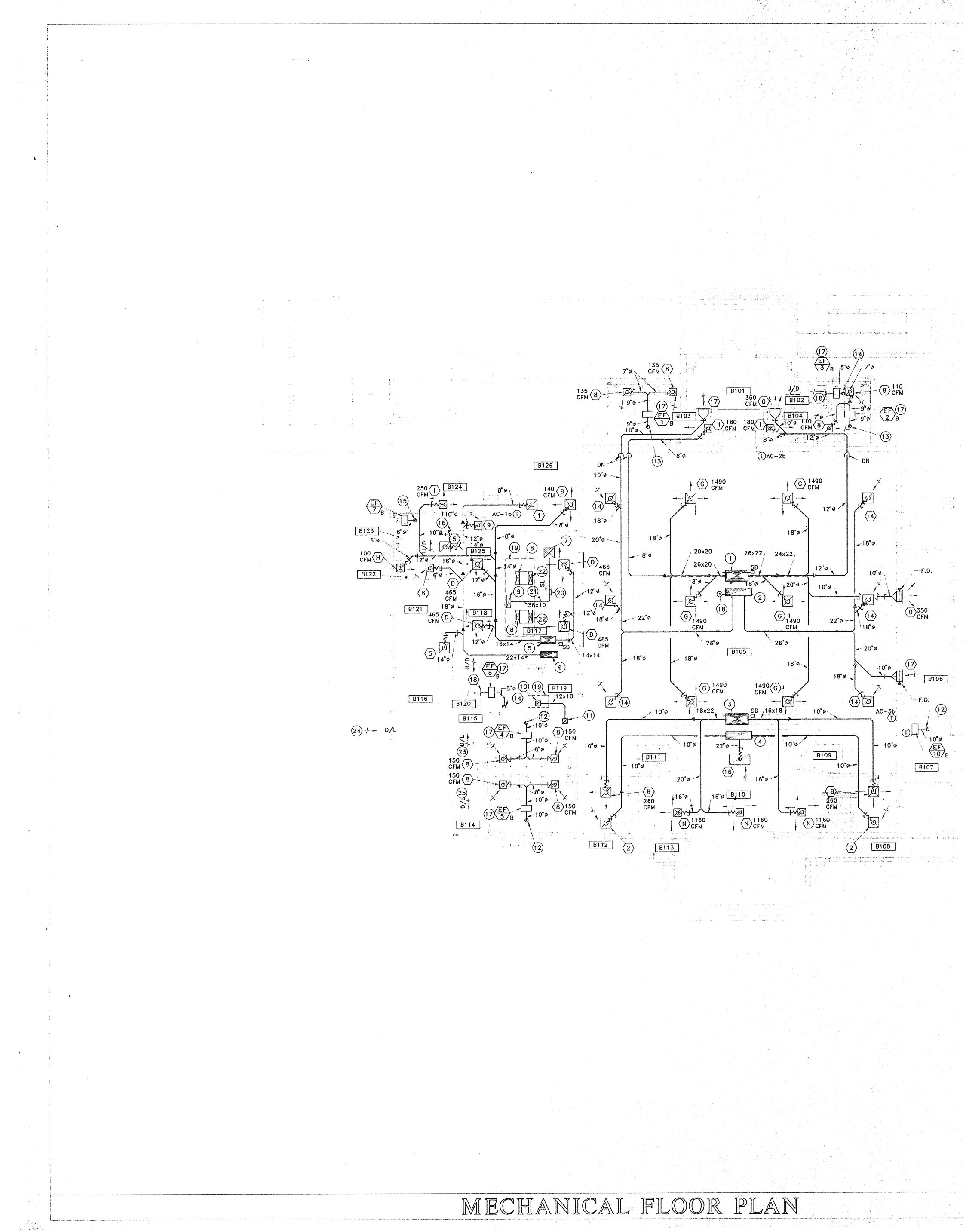
REFERENCE NOTES:

- 1 52" x26" LINED SUPPLY AIR DUCT DOWN.
- (2) 60"×18" LINED RETURN AIR DUCT DOWN.
- 3 OUTSIDE AIR HOOD.
- 4 ROOF JACK.



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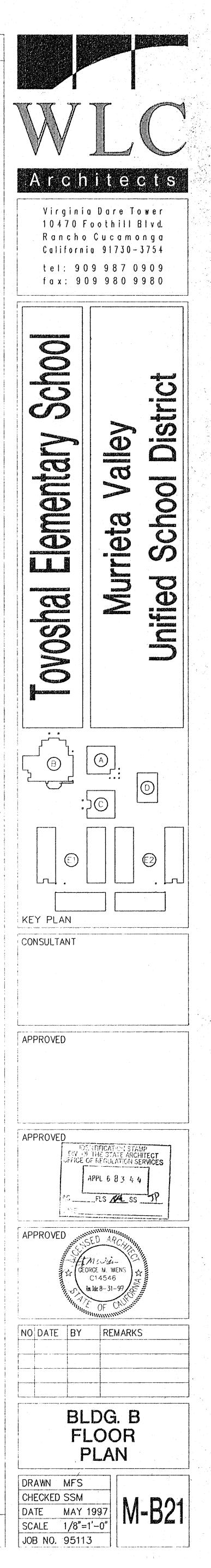
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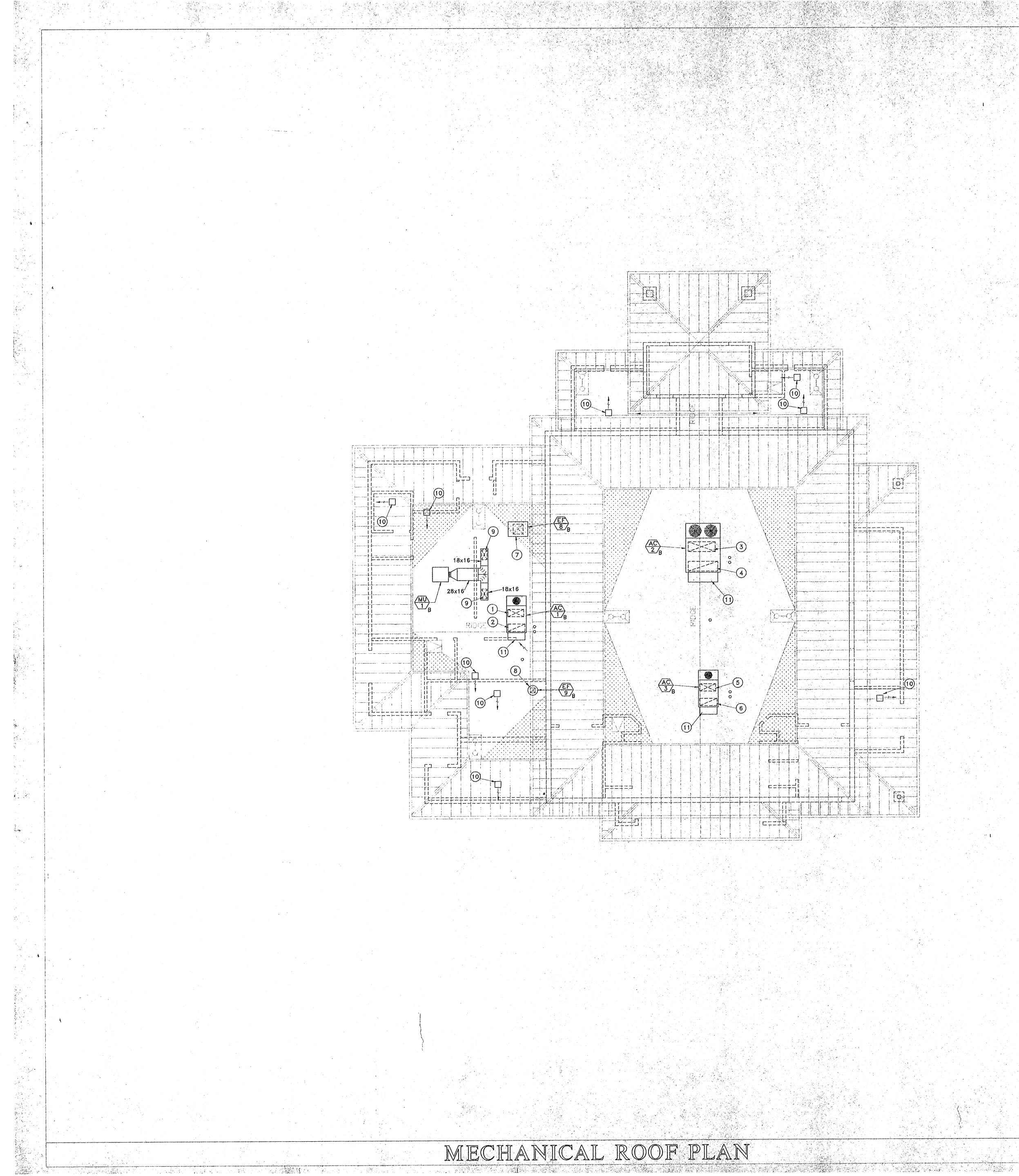
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- 1 66" x26" LINED SUPPLY AIR DUCT UP THRU ROOF TO AC-28. PROVIDE FLEXIBLE CONNECTION AS REQUIRED.
- 2 72"×18" LINED RETURN AIR DUCT UP THRU ROOF TO AC-2B. PROVIDE FLEXIBLE CONNECTION AS REQUIRED.
- 3 44" x22" LINED SUPPLY AIR DUCT UP THRU ROOF TO AC-3B. PROVIDE FLEXIBLE CONNECTION AS REQUIRED.
- 4 52"x16" LINED RETURN AIR DUCT UP THRU ROOF TO AC-3B. PROVIDE FLEXIBLE CONNECTION AS REQUIRED.
- 5 36" x16" LINED SUPPLY AIR DUCT UP THRU ROOF TO AC-1B. PROVIDE FLEXIBLE CONNECTION AS REQUIRED.
- 6 40"x14" LINED RETURN AIR DUCT UP THRU ROOF TO AC-1B. PROVIDE FLEXIBLE CONNECTION AS REQUIRED. \bigcirc 24" x 24" EXHAUST AIR DUCT UP THRU ROOF TO EF-8B, PROVIDE FLEXIBLE CONNECTION AS REQUIRED.
- (8) 10" x 30" SUPPLY AIR DUCT UP THRU ROOF.
- (9) 10" x 36" EXHAUST AIR DUCT DOWN TO HOOD.
- (10) 12" x 12" EXHAUST AIR DUCT DOWN TO HOOD.
- (1) 12" x 12" EXHAUST AIR DUCT UP THRU ROOF TO EF-9B.
- (12) 10° exhaust duct up thru roof and connect to roof jack. PROVIDE TRANSITION AS REQUIRED. CONNECT TO EXHAUST FAN WITH FLEXIBLE CONNECTORS.
- (13) 9"¢ EXHAUST DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED. CONNECT TO EXHAUST FAN WITH FLEXIBLE CONNECTORS.
- (14) 5" Ø EXHAUST DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED. CONNECT TO EXHAUST FAN WITH FLEXIBLE CONNECTORS.
- (15) 6"Ø EXHAUST DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED. CONNECT TO EXHAUST FAN WITH FLEXIBLE CONNECTORS.
- (16) 4" Ø EXHAUST DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED. TERMINATE DUCT +16" FROM FINISH FLOOR FOR DRYER VENT CONNECTION.
- (17) EXHAUST FAN IN CEILING PLENUM.
- (18) CO2 SENSOR.
- (19) EXHAUST HOOD BY OTHERS.
- 20 DUCT ACCESS DOOR.
- (21) SLOPE DUCT DOWN TOWARD THE HOOD.
- 10" x 30" SUPPLY AIR DUCT DOWN TO HOOD. (22)
- (23) 24" X 12" DOOR LOUVER W/SCREEN (BY OTHERS).



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MECHANICAL ROOF PLAN

REFERENCE NOTES:

	36"x16" LINED SUPPLY AIR DUCT DOWN.
2	40"×14" LINED RETURN AIR DUCT DOWN.
3	66"x26" LINED SUPPLY AIR DUCT DOWN.
4	72"×18" LINED RETURN AIR DUCT DOWN.
5	44"x22" LINED SUPPLY AIR DUCT DOWN.
6	52"×16" LINED RETURN AIR DUCT DOWN.
7	24" x24" EXHAUST AIR DUCT DOWN.
8	12"×12" EXHAUST AIR DUCT DOWN.
9	10"x30" SUPPLY AIR DUCT DOWN.
10	ROOF JACK.

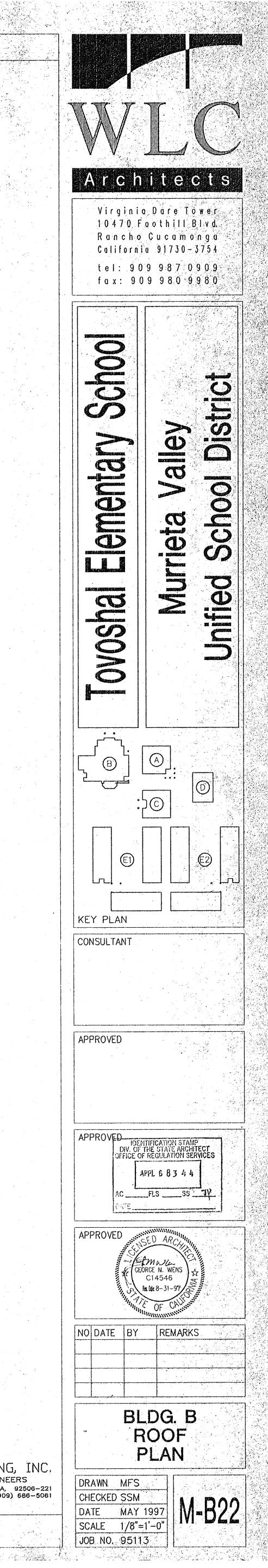
OUTSIDE AIR HOOD.

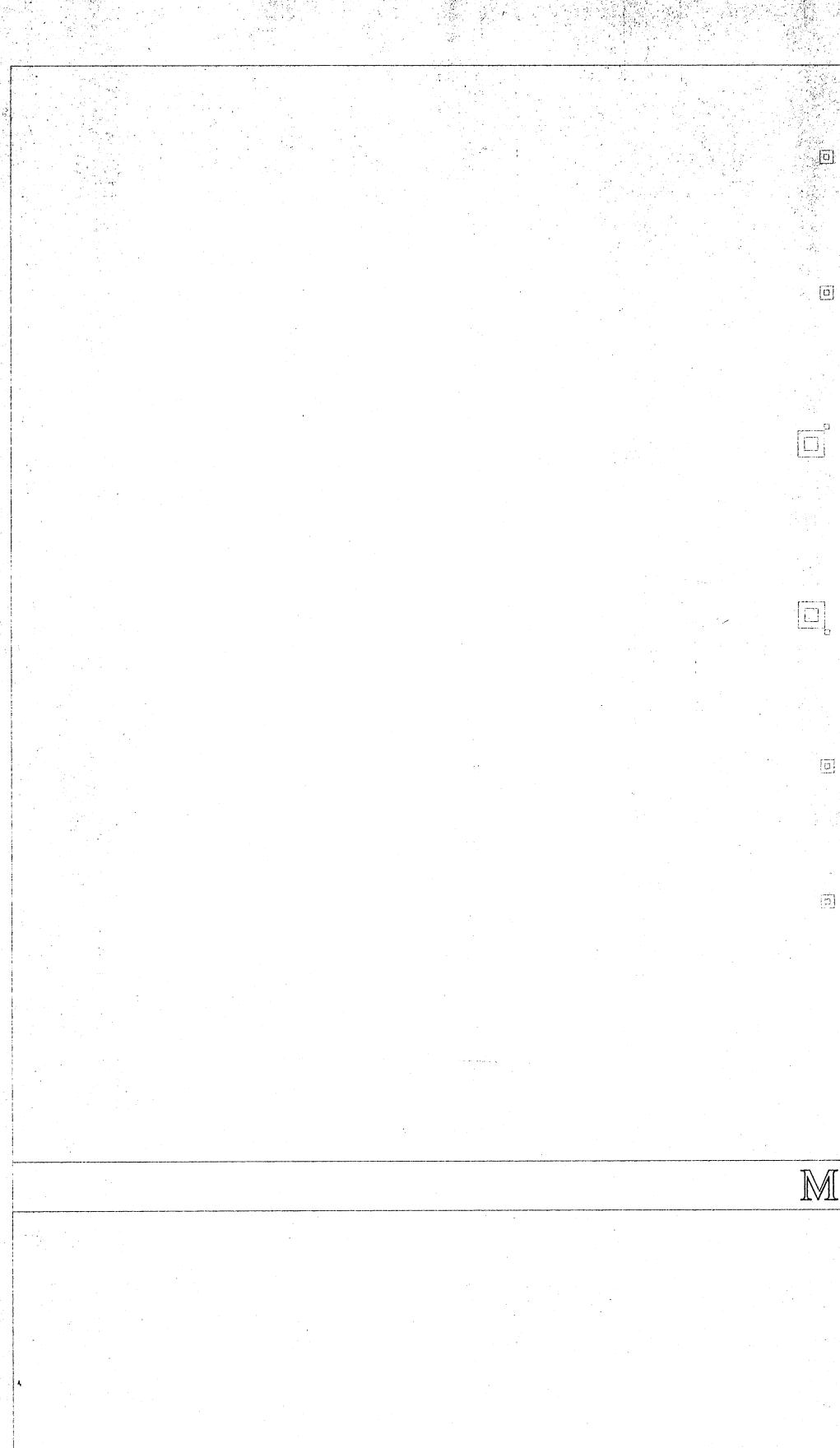
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1/8"=1'-0"

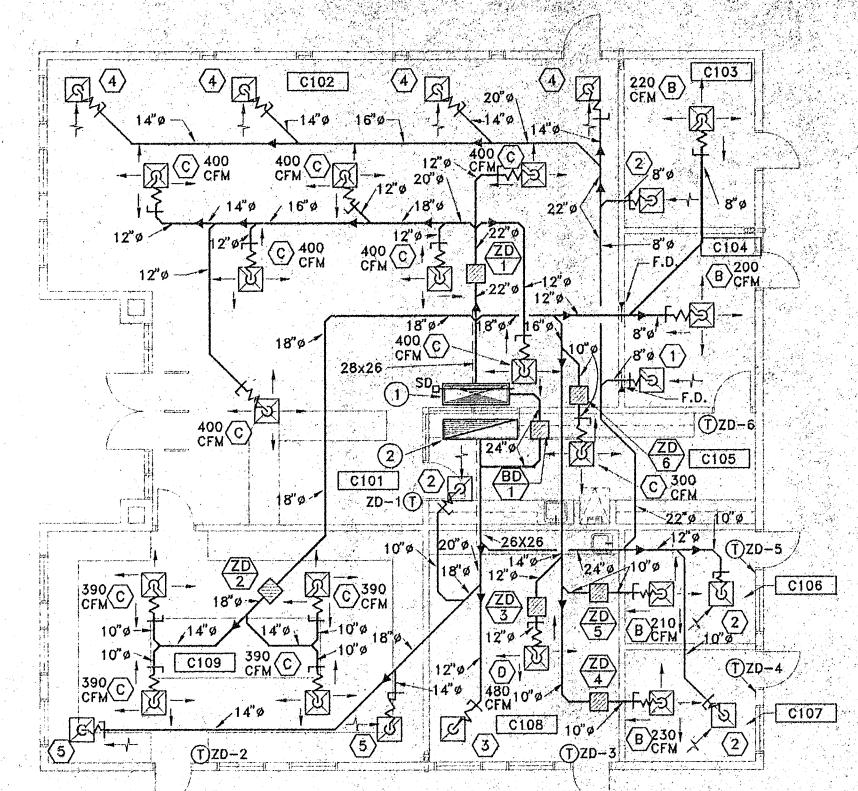


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MECHANICAL FLOOR PLAN

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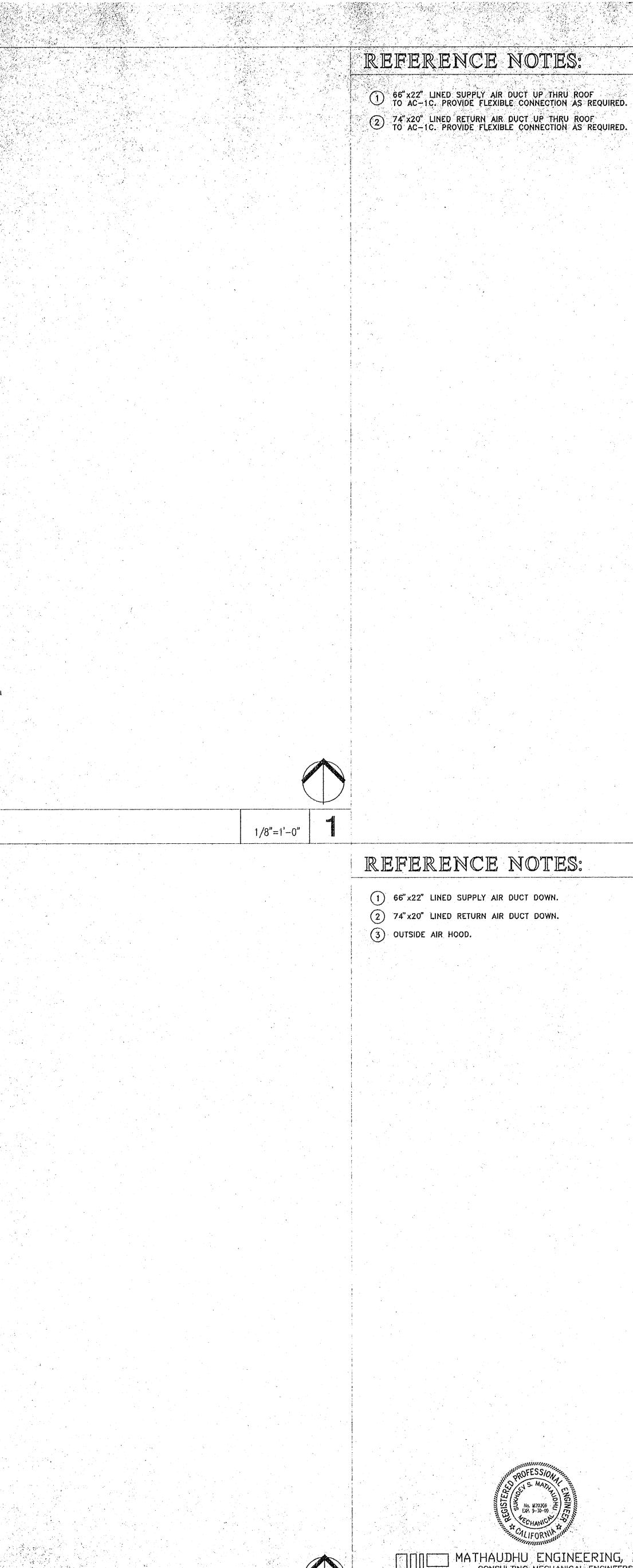
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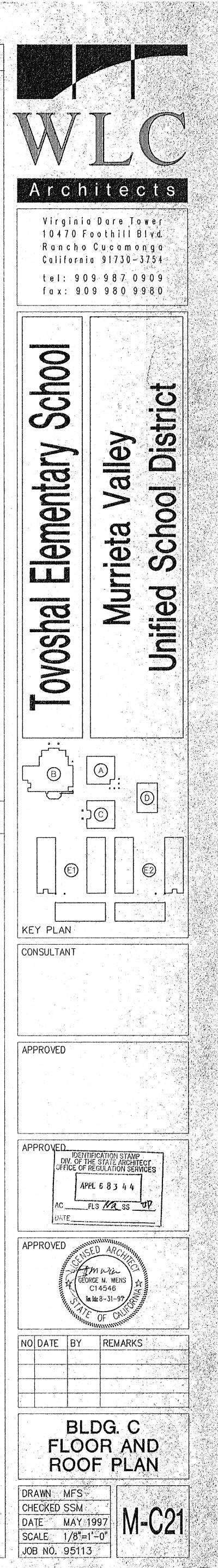
MECHANICAL ROOF PLAN

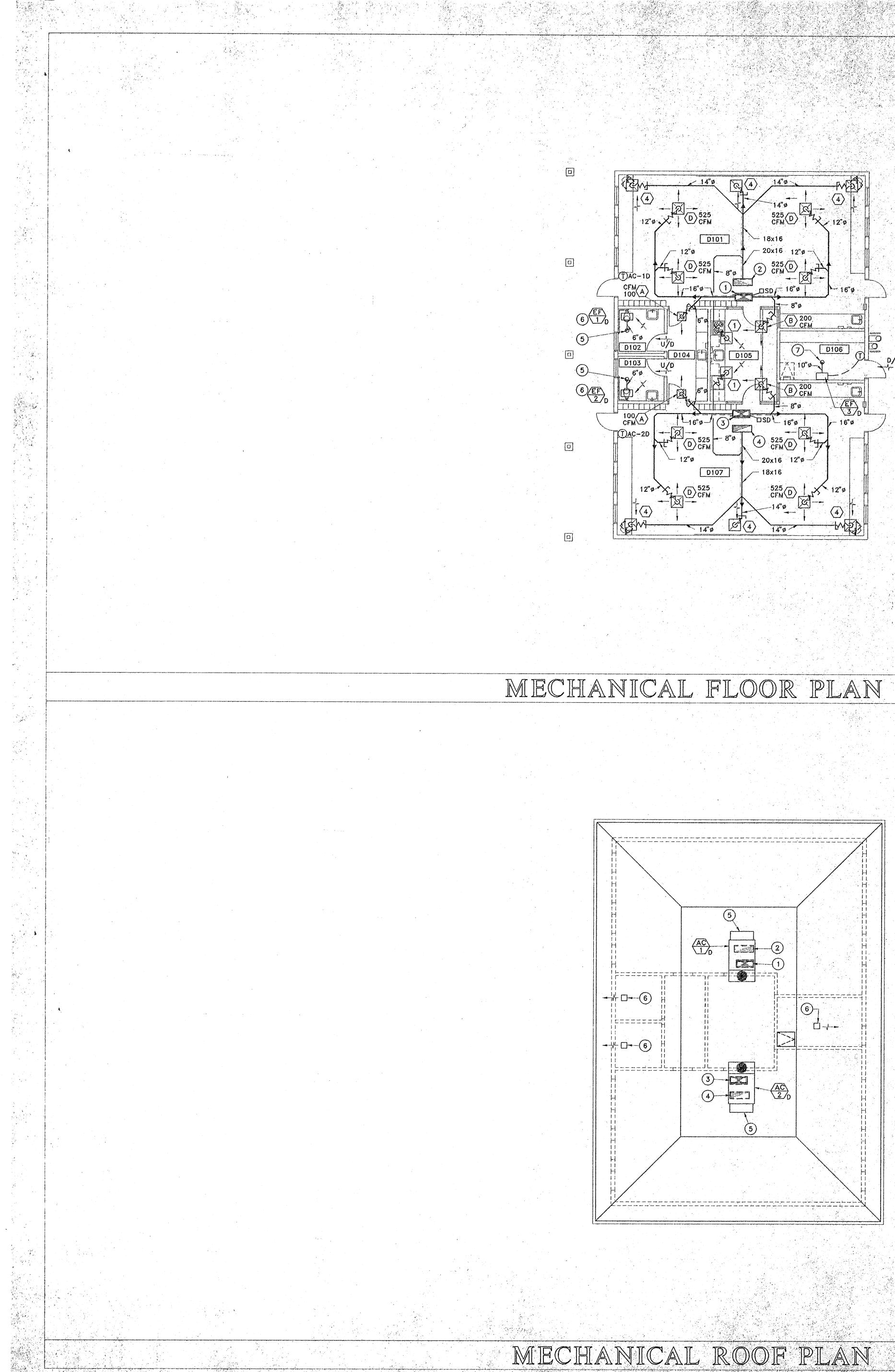
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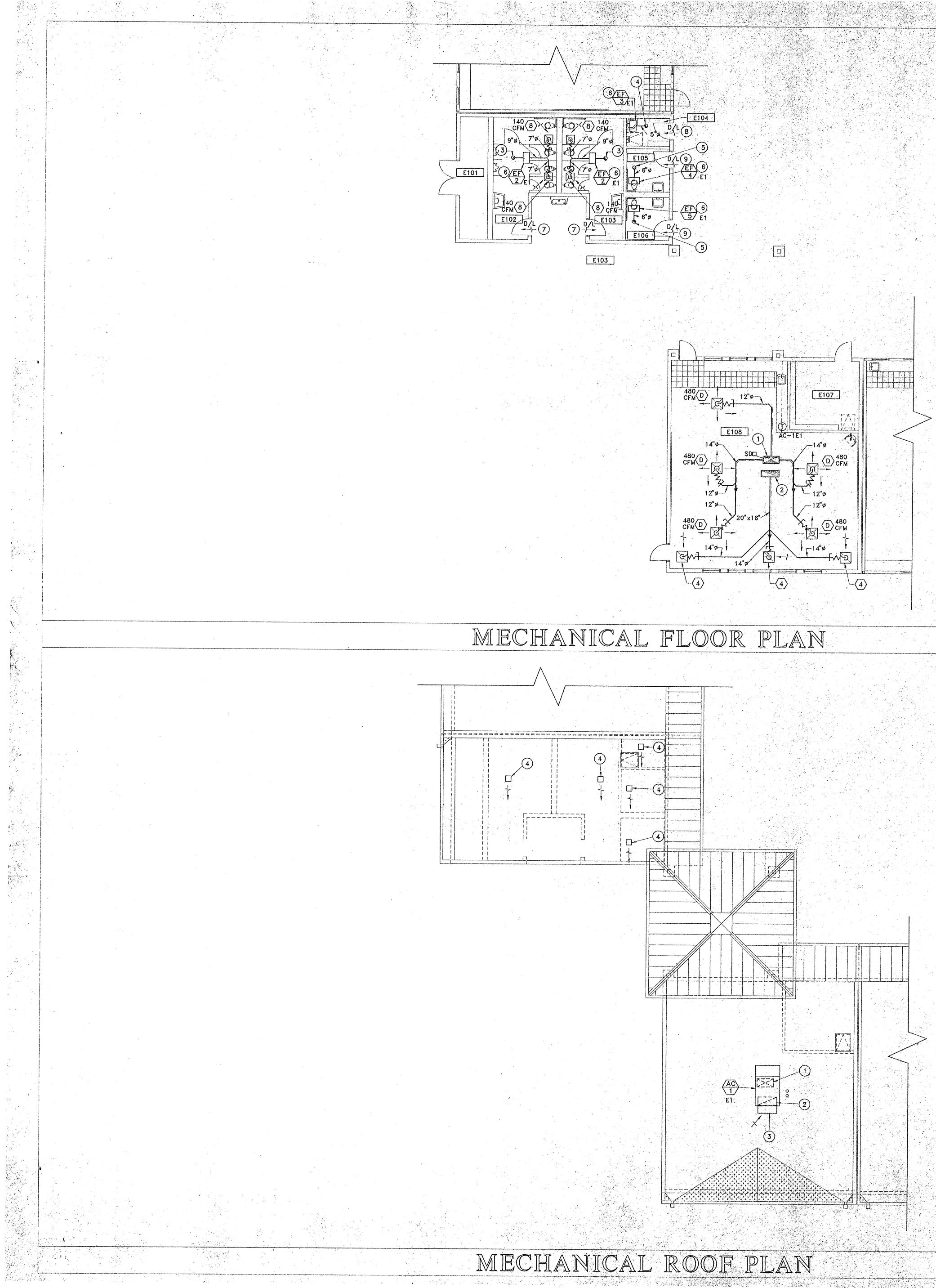
REFERENCE NOTES: 1 36" x16" LINED SUPPLY AIR DUCT UP THRU ROOF TO AC-1D. PROVIDE FLEXIBLE CONNECTION AS REQUIRED. 2 40"x14" LINED RETURN AIR DUCT UP THRU ROOF TO AC-1D. PROVIDE FLEXIBLE CONNECTION AS REQUIRED. 36"x16" LINED SUPPLY AIR DUCT UP THRU ROOF TO AC-2D. PROVIDE FLEXIBLE CONNECTION AS REQUIRED. 40" x14" LINED RETURN AIR DUCT UP THRU ROOF TO AC-2D. PROVIDE FLEXIBLE CONNECTION AS REQUIRED. 5 6" EXHAUST AIR DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED. CONNECT DUCT TO EXHAUST FAN WITH FLEXIBLE CONNECTORS. (6) EXHAUST FAN IN CEILING PLENUM. TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED. CONNECT DUCT TO EXHAUST FAN WITH FLEXIBLE CONNECTORS. (8) 24" X 12" DOOR LOUVER W/SCREEN (BY OTHERS). 1/8"=1'-0" REFERENCE NOTES: 1 36"x16" LINED SUPPLY AIR DUCT DOWN. 2) 40"x14" LINED RETURN AIR DUCT DOWN. (3) 36"×16" LINED SUPPLY AIR DUCT DOWN. 40"x14" LINED RETURN AIR DUCT DOWN. 5 OUTSIDE AIR HOOD. 6 ROOF JACK.

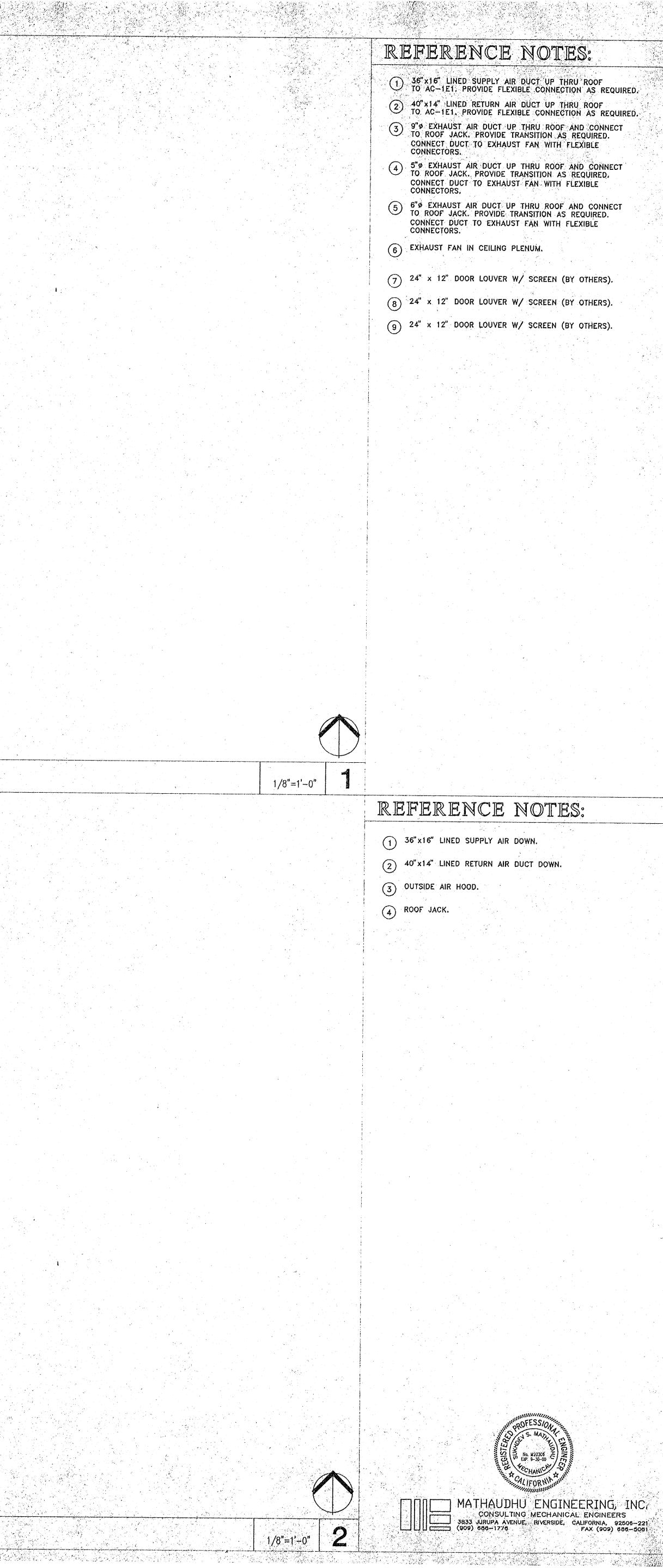


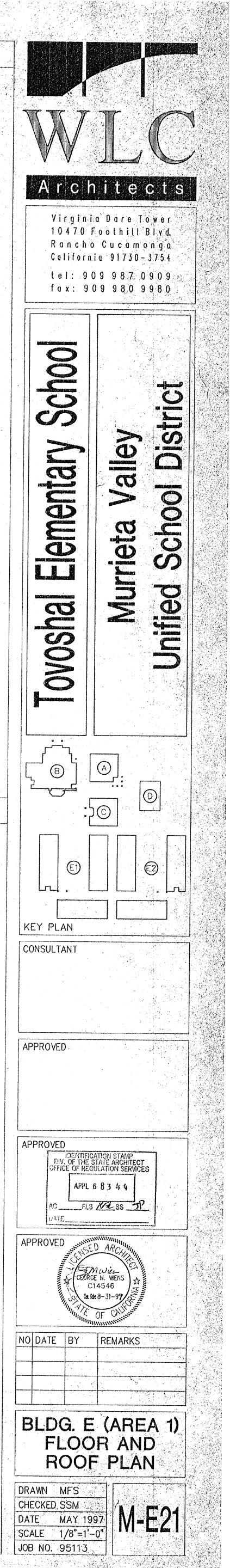
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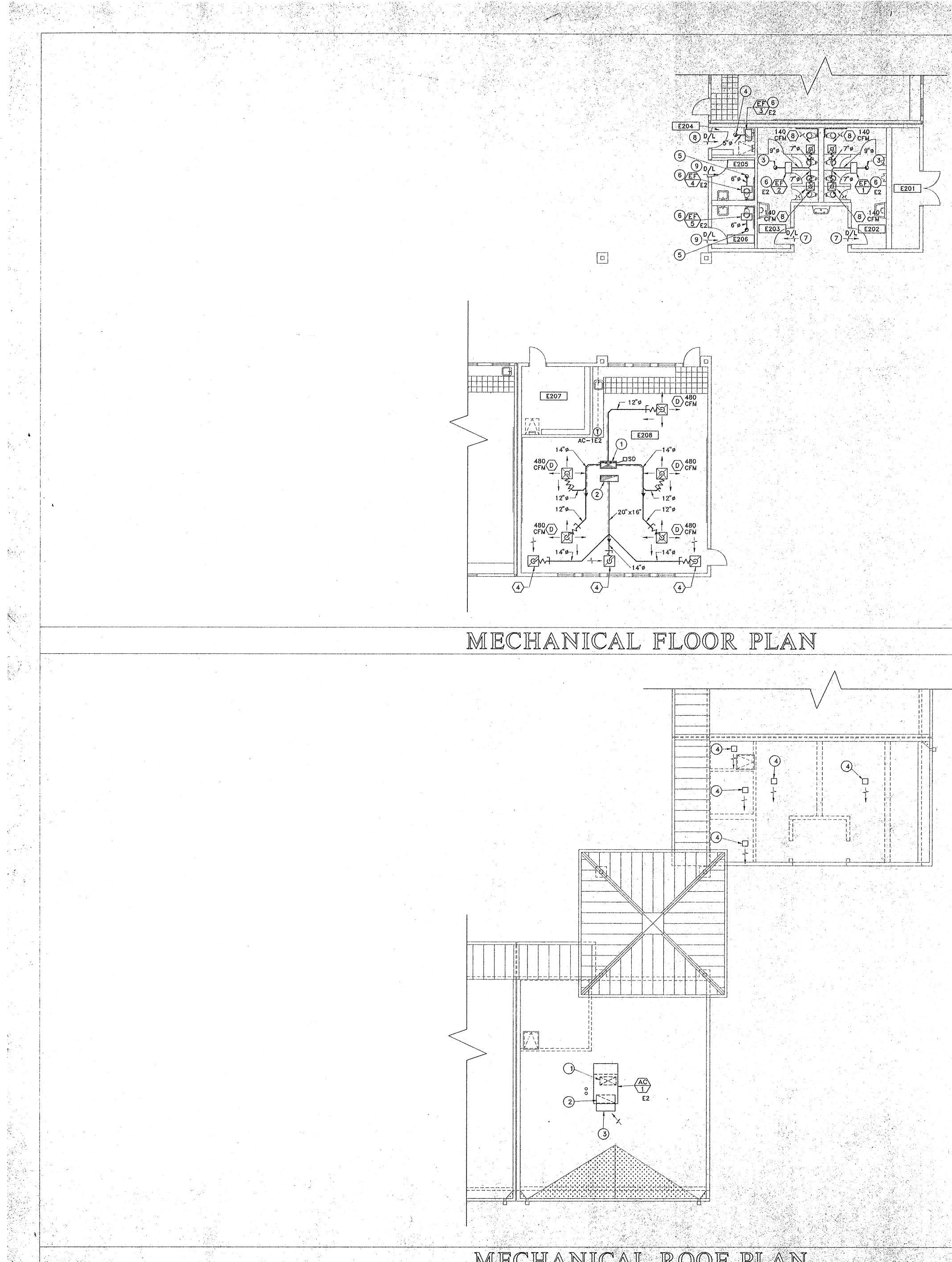
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Architects Virginia Dare Tower 10470 Foothill Blvd. Rancho Cucamongá California 91730-3754 tel: 909 987 0909 fax: 909 980 9980 D S S C S S C aley chool Nurrieta S Ifica 80 Constant .G 4 B 0 :5© E2) (E1) KEY PLAN CONSULTANT APPROVED APPROVED DENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 6 8 3 4 4 FLS Not 35 JP APPROVED CI 4546 OF CP NO DATE BY REMARKS BLDG. D FLOOR AND ROOF PLAN DRAWN MFS CHECKED SSM **M-D21** DATE MAY 1997 SCALE 1/8"=1'-0" JOB NO. 95113





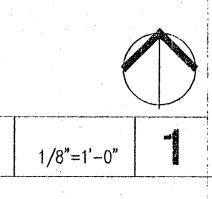




MECHANICAL ROOF PLAN

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- **1 36"**×16" LINED SUPPLY AIR DUCT UP THRU ROOF TO AC-1E2. PROVIDE FLEXIBLE CONNECTION AS REQUIRED.
- 2 40" x14" LINED RETURN AIR DUCT UP THRU ROOF TO AC-1E2. PROVIDE FLEXIBLE CONNECTION AS REQUIRED.
- **3** 9"¢ EXHAUST AIR DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED. CONNECT DUCT TO EXHAUST FAN WITH FLEXIBLE CONNECTORS.
- **5**"Ø EXHAUST AIR DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED. CONNECT DUCT TO EXHAUST FAN WITH FLEXIBLE CONNECTORS.
- 5 6"¢ EXHAUST AIR DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED. CONNECT DUCT TO EXHAUST FAN WITH FLEXIBLE CONNECTORS.
- 6 EXHAUST FAN IN CEILING PLENUM.
- (7) 24" × 12" DOOR LOUVER W/ SCREEN (BY OTHERS).
- (8) 24" x 12" DOOR LOUVER W/ SCREEN (BY OTHERS).
- (9) 24" x 12" DOOR LOUVER W/ SCREEN (BY OTHERS).



REFERENCE NOTES:

- (1) 36" x16" LINED SUPPLY DUCT AIR DOWN.
- (2) 40"×14" LINED RETURN AIR DUCT DOWN.
- (3) OUTSIDE AIR HOOD. 4 ROOF JACK.

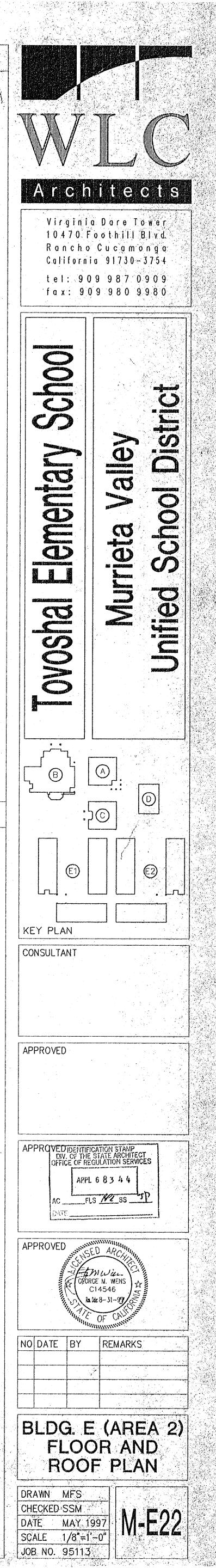




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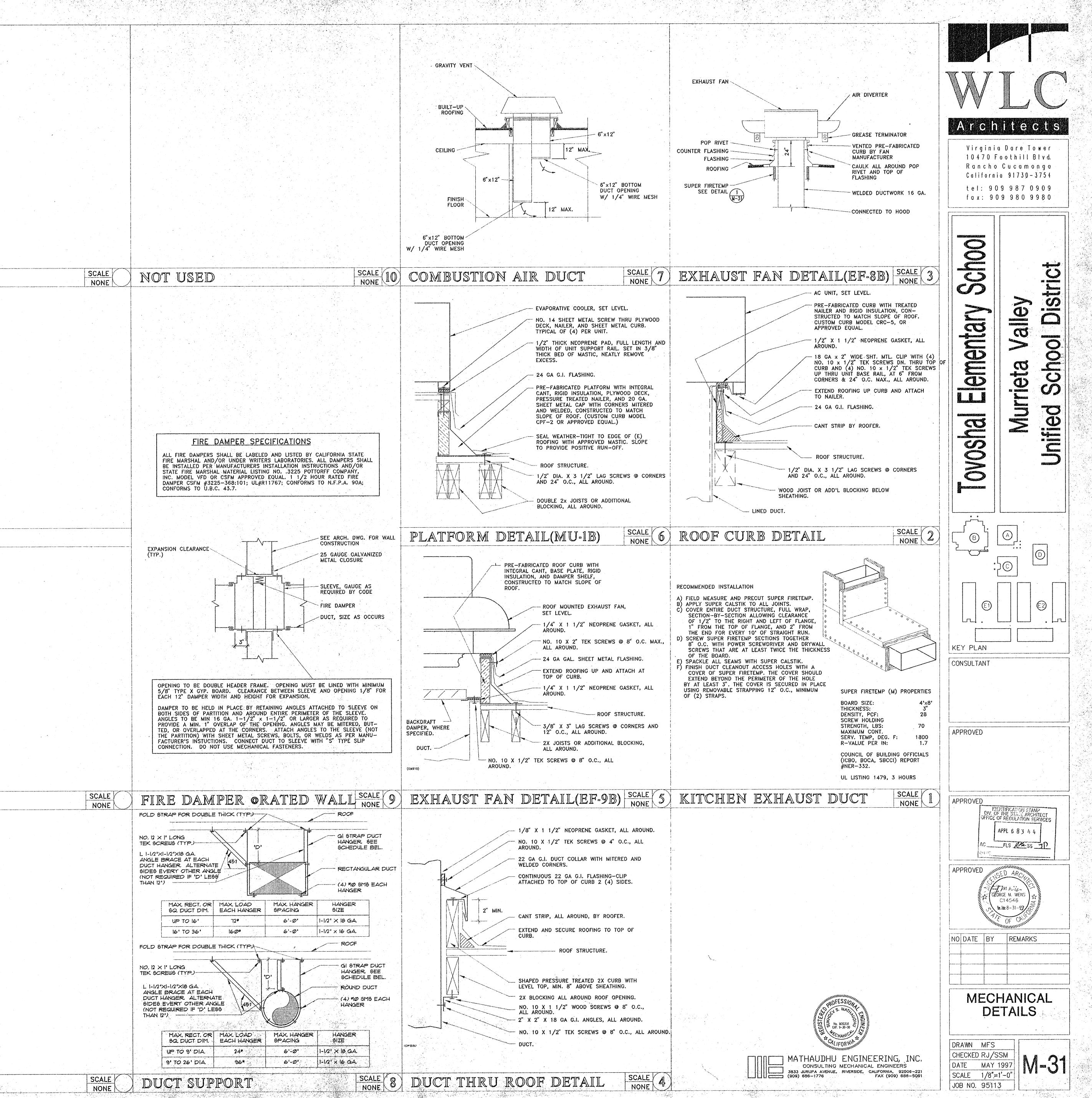


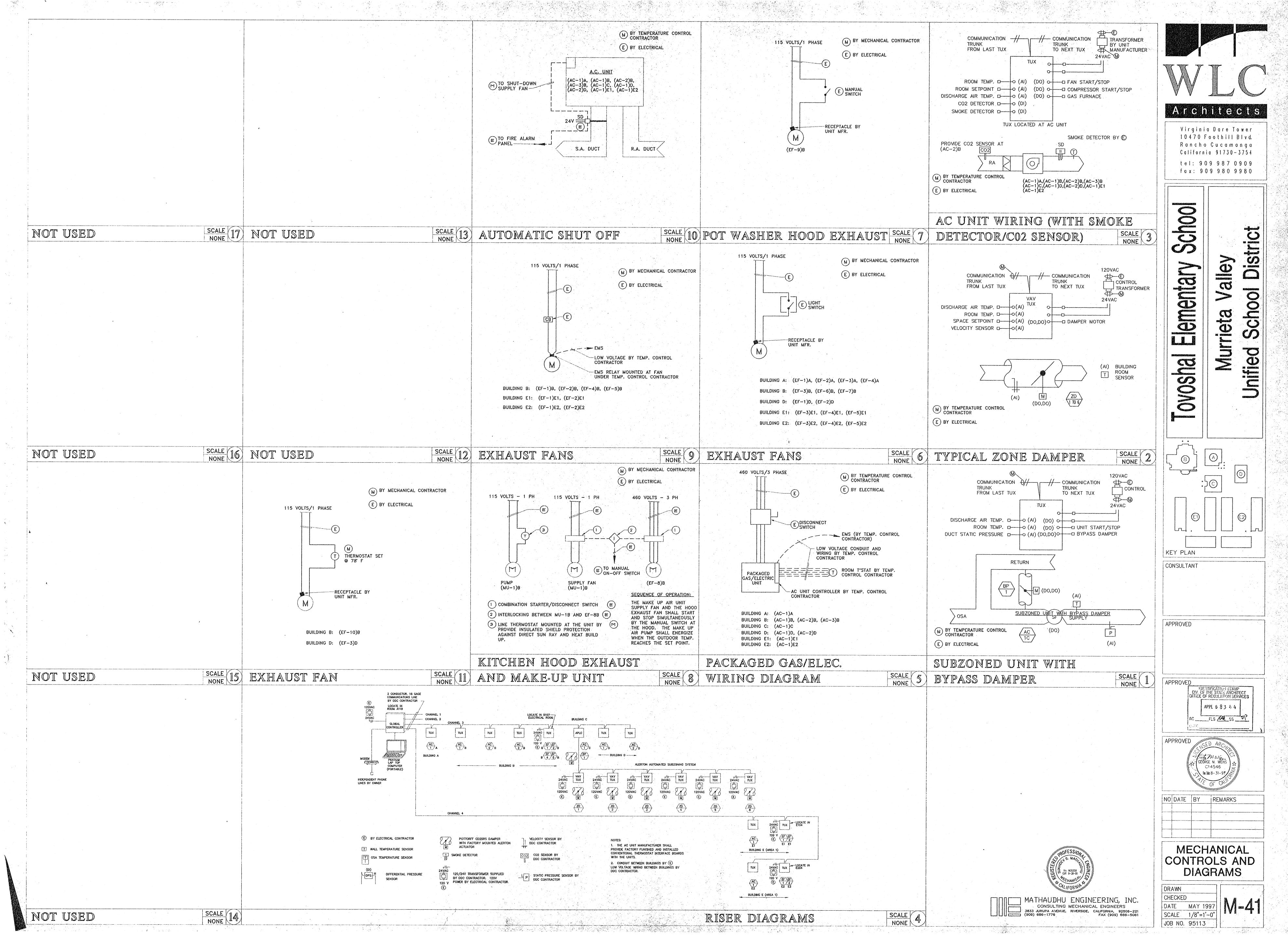


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D IF A CIRCULATING NOT WATER ST CIRCULATING PURPES WHEN HOT D LAVATORIES IN RESTROOMS OF PUBL 1. OUTLET DEVICES THAT LINES 2 2. FOOT ACTUATED CONTROL VI PER MENUTE. D S. PROKINITY SENSOR ACTUATED 0.75 GAELONS PER MINUTE. CI 4. SELF-CLOSING YALVES, AND REMUTE, AND 0.25 GALLOWS D S. SELF-CLOSING VALVES, AND REMITE, AND 0.50 CALLONS C) 6. SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LINET THE FLOW OF NOT WATER TO A MAXIMUM OF 2.5 GALLONS PER HINLIE, AND 0.75 GALLONS/CYCLE (TOOT SHITCHES AND PROXIMITY SENSOR CONTROLS.) 7. LAVATORIES IN RESTROOM OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110 DECREE F.

POOLS AND SPAS - A/A

MANDATORY MEASURES

			CONFINENT AND SYSTEMS EFFICIENCY	
	-		ANY APPLIANCE FOR MAICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY. IF THE MANUFACTURER HAS CENTIFIED TO THE COMMISSION, AS SPECIFIED IN THOSE REGULATIONS, THAT THE APPLIANCE CONFETES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE. INCLUDED ARE NOON ASH CONDITIONERS, CENTRAL ATR CONDITIONING HEAT PUMPS (REGARDLESS OF CAPACITY, EXCEPT THAT REGULARENTS FOR CENTRAL ATR CONDITIONERS, CENTRAL ATR CONDITIONING HEAT PUMPS (REGARDLESS OF CAPACITY, EXCEPT THAT REGULARENTS FOR CENTRAL ATR CONDITIONERS, DET THAT PUMPS WITH COOLING CAPACITY OF TIS, DOD BILLYNR OR HORE APPLY TO MEATING PERFORMANCE BUT NOT COOLING PERFORMANCE), OTHER CENTRAL ATR CONDITIONERS WITH A COOLING CAPACITY LESS THAN 135,000 BTU/NR, FAM TYPE CENTRAL FURNACES WITH THEUR CENTRAL ATR CONDITIONERS WITH A COOLING CAPACITY LESS THAN 135,000 BTU/NR, FAM TYPE CENTRAL FURNACES WITH THE THE LESS THAN 400,000 BTU/NR, BOILERS WALL FURNACES, FLOOR FURNACES, ROOM MEATERS, WITH THE APPLIANCE SHALL NAVE BEEN CERTIFIED TO THE CALIFORNIA ENERGY CONVISSION BY ITS MANUFACTURER TO COMPLY WITH THE APPLIANCE EFFICIENCY STANDARDS.	
	t		THE FOLLOWING SPACE CONDITIONING EQUIPMENT MAY BE INSTALLED ONLY IF THE HAMUTACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN 112 OF THE ENERGY EFFICIENCY STANDARDS: ALL AIR CONDITIONERS, HEAT BUNDS AND CONDENSING UNITS >135,000 BTU/HR; ALL UNTER CHILLERS; ALL GAS-FIRED BOILERS >300,000 BTU/HR; 'ALL OIL-FIRED BOILERS >225,000 BTU/HR; AND ALL UNDER AIR FURNACES AND CONSTNATION WARM AIR FURNACES/AIR-CONDITIONING UNITS >225,000 BTU/HR. FAN TYPE CENTRAL FURNACES SHALL NOT HAVE A PILOT LIGHT.	
,	្ត		PIPING, EXCEPT THOSE CONVEYING FLUIDS AT TEMPERATURE BETWEEN 60 DEGREE F AND 305 DEGREE F, OR WITHIN MVAC EQUIPMENT, SMALL BE INSULATED IN ACCORDANCE WITH STANDARDS #123.	N/A
· ' .			ALAT HANDLING DUCT STATEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED, AND INSULATED AS PROVIDED IN CHAPTER 10 OF THE UNITORN RECHARICAL CODE.	MO.2, SPEC.
	2		CORTECLS.	15180 & 15600
		1	EACH SPACE CONDITIONING STSTEM SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERIDE THAT ALLOWS OPERATION OF THE SYSTEM DURING OFF-HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPARLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKBAYS AND WEEKENDS; INCOMPORATE AN AUTOMATIC HOLIDAT "SHUT-OFF" FEATURE THAT TURNS OFF ALL LONDS FOR AT LEAST 26 HOURS, THEN RESUMES THE MORMALLY SCHEDURED OPERATION; AND HAS PROGRAM BACOUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICE'S PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS WIERRUPTED.	но.з
	O		ACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN OCCUPANCY SENSOR TO CONTROL THE OPERATING PERIOD OF THE YSTEM.	N/A
	٥	· ,	ACH SPACE CONDITIONING STRIEM SMALL BE INSTALLED WITH A 4-MOLR TIMER THAT CAN BE MANUALLY OPERATED TO CONTROL THE PERALENG PERIOD OF THE STRIEM.	H0.3
	ja		ACH SPACE CONDITIONING STATEN SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE TSTEM AS REQUIRED TO MAINTAIN A SETURCE HEATING THERMOSTAT SETURD.	N/A
	٥		ACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE TSTEM AS REQUIRED TO MATHIAIN A SETBACK COOLING THERMOSTAT SETPOINT.	N/A
		11 11	ACR SPACE CONDITIONING SYSTEM SERVING NULTIFLE 20NES WITH A COMBINED CONDITIONED FLOOR AREA HORE THAN 25,000 SQUARE EEF SMALL BE PROVIDED WITH ISOLATION ZONES. EACH ZONE SMALL NOT EXCEED 25,000 SQUARE FEET; SMALL BE PROVIDED WITH SQUATION DEVICES, SUCH AS VALVES OR DAMPERS, THAT ALLOW THE SUPPLY OF HEATING OR COOLING TO BE SETBACK OR SMIT OFF INDEPENDENTLY OF OTHER ISOLATION AREAS; AND SMALL BE CONTROLLED BY A TIME CONTROL DEVICE AS DESCRIBED ADOVE.	N/A
	0		ACH SPACE COMPETIONING ZONE SHALL BE CONTROLLED BY AN INDIVIOUAL THEMMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE ITHIN THE ZONE. WHERE USED TO CONTROL HEATING, THE CONTROL SHALL BE ADJUSTABLE DOWN TO SS DEGREE F OR LOWER. TO DOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85 DEGREE F OR REGHER. WHERE USED TO CONTROL BOTH MEATING-AND DOLING, THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEAD BAND OF AT LEAST 5 DEGREE F WITHIN WHEN THE SUPPLY OF LATING AND COOLING IS SHUT OFF OR REQUCED TO A HININGH.	SEE MECH. FLOOR PLAN
	0	73	REPHOSTATS SHALL HAVE HUPERIC SETPOINTS IN DEGREE F.	M0.3
	٥	ti	REMOSTATE SHALL HAVE ADAUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.	MO.3
	O		TAT PUMPS SHALL BE INSTALLED WITH CONTROLS TO PREVENT ELECTRIC RESISTANCE SUPPLEMENTARY MEATER OPERATION WHEN THE EATING LOAD CAN BE HET BY THE NEAT PUMP ALONE. ELECTRIC RESISTANCE SUPPLEMENTARY MEATER OPERATION IS PERMITED	۰ ۰ ۰
		P1 04	WEING TRANSTENT PERIODS, SUCH AS START-UPS AND FOLLOWING ROOM THERMOSTAT SETPOINT ADVANCE, WHEN CONTROLS ARE NOVIOED WHICH USE PREFERENTIAL RATE CONTROL, INTELLIGENT RECOVERY, STAGING, RAMPING, OR SINILAR CONTROL MECHANISMS ESIGNED TO PRECLUDE THE UNNECESSART OPERATION OF SUPPLEMENTARY BEATING OURING THE RECOVERT PERIOD. SUPPLEMENTART EATER OPERATION IS ALSO PERMITTED OURING DEFROST.	
	• .		ENT SLAT FOM	PER AIR BALANCE
		5	MINOLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR OAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS Recified in These plans. 	REQ'TS SEE HO.T
	-	91	LAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SMUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND SCHARGES OF ALL SPACE CONSTITUTING AND EXHAUST SYSTEMS.	N/A
	•	A2	L GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MARMALLY OPERATED DAMPERS IN L OPENINGS TO THE DUTSIDE, EXCEPT FOR CONSUSTION AIR OPENINGS.	N/A
	0	ŤW	R BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SMALL BE BALANCED TO THE QUANTITIES SPECIFIED IN ESE PLANS, IN ACCORDANCE WITH THE HATIONAL ENVIRONMENTAL BALANCING SUREAU (NEBD) PROCEDURAL STANDARDS (1983), OR ISOCIATED AIR BALANCE COUNCIL (AASC) NATIONAL STANDARDS (1986).	SPEC. 15040
	a		ITSIDE AIR CERTIFICATION: THE STSTEN SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, D SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR	SPEC. 15040
			EVICE WATER REATING STATCHS	
		fa 53	RE FOLLOWING SERVICE WATER REATING STSTEMS AND EQUIPMENT WAT BE INSTALLED ONLY IF THE MANUFACTURER WAS CERTIFIED WAT THE EQUIPMENT MEETS OR EXCELOS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN 8113 OF THE EWERGY EFFICIENCY ANDARDS: QIL-FIRED STORAGE TYPES >105,000 BTU/NR; OIL-FIRED NON-STORAGE TYPES >210,000 BTU/NR; GAS-FIRED NON- CORAGE TYPES >200,000 BTU/NR.	N/A
	O	t 1 cc	I FIRED SERVICE WATER HEATER STORAGE TANKS AND BACKUP TANKS FOR SOLAR WATER MEATING SYSTEMS SHALL NAVE ITMER:EXTERNAL INSUAATION WITH AN INSTALLED R-VALUE OF AT LEAST R-12; INTERNAL AND EXTERNAL INSULATION WITH A DRINED R-VALUE OF AT LEAST R-16; OR SUMPLCIENT INSULATION SO THAT THE MEAT LOSS OF THE TANK SURFACE BASED ON AN 80 IGREE F WATER-AIR TEMPERATURE DIFFERENCE SHALL BE LESS THAN 6.5 BTU/WR/ST.	H/A
	0		A CIRCULATING NOT WATER SYSTEM IS INSTALLED, IT SMALL MAVE A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE IRCULATING PUMP(S) WHEN NOT WATER IS NOT REQUIRED.	PO.4 DET. 18
	٥	u	WATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH THE FOLLOWING:	SEE FIX.
	۵			SCHEDULE PO.2
	۵	Z.	FOOT ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LINIT THE FLOW OF NOT WATER TO A MAXIMUM OF 0.75 GALLONS	N/A
	۵	\$.	PROMINITY SENSOR ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LINIT THE FLOW OF NOT WATER TO A MAXIMUM OF 0.75 GALLONS PER NIMUTE.	N/A
	٥	4.	SELF-CLOSING VALVES, AND DUTLET DEVICES THAT LIMIT THE FLOW OF NOT WATER TO A MAXIMUM OF 2.5 GALLONS PER	N /A
			REMUTE, AND 0.25 GALLONS/CTCLE (CIRCULATING STSTEN).	<u>N/ A</u>

<u>8/A</u>

<u>N/A</u>

GENERAL NOTES

- 1 AND ORDINANCES HAVING JURISDICTION.
- 2. TO ELIMINATE ANY FIELD AND INSTALLATION PROBLEMS.

3.

13

6.

17.

- BY THE ARCHITECT. 4.
- 5. ALL CEILING AND WALL ACCESS DOORS OR PANELS (WHERE SHOWN OR REQUIRED

- AFFIX A MAINTENANCE LABEL TO MECHANICAL EQUIPMENT AND A MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE.
- 0 INSULATION OR LINING).
- IN RECTANGLE BRANCHES.
- 12. ROOM THERMOSTATS SHALL BE MOUNTED AT 4'-O' ABOVE FINISHED FLOOR.
- CRAFTS INVOLVED.
- 25 AND SMOKE DEVELOPED OF 50 AT SAME TESTS AS INDICATED ABOVE.
- UP STREAM OF DIFFUSERS (WHETHER SHOWN ON DRAWINGS OR NOT.)
- SECTION 504 OF THE UMC.
- ALL DUCTWORK WALL PENETRATIONS BY GENERAL CONTRACTOR. 18.

- TITLE 24 HVAC MANDATORY MEASURES (PART 6)
- COMPLIANCE WITH THE FOLLOWING MEASURES.

THAN 78 F. SECTION 122.

- VENTILATION REQUIREMENTS COMPLY WITH STATE MECHANICAL CODE TITLE 24, 5. SECTION 121.

SEISMIC BRACING NOTES

VERTICAL FORCE-USE ONE-THIRD OF THE VALUE OF HORIZONTAL FORCE.

ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

- FIXED EQUIPMENT ON GRADE 20% OF OPERATING WEIGHT. A. FIXED EQUIPMENT ON STRUCTURE 30% OF OPERATING WEIGHT
- FIELD REPRESENTATIVE OF STATE ARCHITECT.
- SEE RESPECTIVE DETAILS. D. FOR FLEXIBLE MOUNTED EQUIPMENT USE FOUR THE ABOVE VALUES. SIMULTANEOUS

ALL INSTALLATION TO CONFORM TO UNIFORM MECHANICAL CODE AND ALL OTHER LOCAL CODES THE MECHANICAL SUB-CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES

COORDINATE ALL CEILING DIFFUSERS WITH REFLECTED CEILING PLAN OR AS DIRECTED

THE MECHANICAL SUB-CONTRACTOR SHALL CONFIRM ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT AND CONTROLS.

FOR INSPECTION AND MAINTENANCE TO FIRE DAMPERS, VALVES, CONTROLS AND EQUIPMENT) TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.

WHERE SPECIFIC DETAILS ARE NOT SHOWN OR SPECIFIED, INSTALLATION SHALL BE BASED ON THE RECOMMENDATIONS OF THE LATEST ISSUE OF THE 'ASHRAE GUIDE' OR SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE'.

PROVIDE SEISMIC RESTRAINT SUPPORTS FOR ALL DUCTWORK AND PIPING PER CODE BASED ON THE RECOMMENDATIONS OF THE LATEST ISSUE OF THE 'SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS'.

TRANSVERSE JOINTS ON DUCTWORK SHALL BE SEALED WITH APPROVED MASTIC.

DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS, IN ORDER TO ACCOUNT FOR DUCT WRAP OR DUCT LINING INSULATION, AND ARRIVE AT AN OVERALL DIMENSION TAKEN UP BY DUCT, THE THICKNESS OF THESE INSULATIONS MUST BE ADDED TO DUCT SIZE. THIS FINAL DIMENSION EXCLUDES DUCT REINFORCEMENT ANGLES OR CLIPS. (EXAMPLES: 24" x 10" NET = 26" x 12" GROSS: IF I" THICK

PROVIDE AND INSTALL TURNING VANES IN RIGHT ANGLE ELBOWS AND DEFLECTORS

ALL DUCTWORK SHOWN IS DIAGRAMATIC. VERIFY CLEARANCES WITH TRUSSES AND OTHER STRUCTURAL ITEMS, COORDINATE LOCATION OF AIR DEVICES WITH OTHER

14. ALL DUCT INSULATION AND DUCT LINING SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E-84 AND UL 723. ALL FLEXIBLE DUCTS SHALL NOT EXCEED DUCTS FLAME SPREAD OF

15. ALL DUCTWORK TAKE-OFFS TO EACH DIFFUSER SHALL HAVE VOLUME DAMPERS

ROUND GALVANIZED STEEL DUCTWORK SHALL BE FABRICATED USING 24 GAUGE

HYAC EQUIPMENT SHALL BE LABELED TO THE SPACE SERVED AS REQUIRED BY

ENERGY NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ITEMS TO BE INSTALLED IN

AUTOMATIC TEMPERATURE CONTROL DEVICE FOR REGULATION OF SPACE TEMPERATURE SHALL BE CAPABLE OF BEING SET FROM 55" F TO 85" F, AND HAVE THE ABILITY TO OPERATE THE HEATING AND COOLING IN SEQUENCE, IF BOTH ARE PROVIDED. CONTROL SHALL BE ADJUSTABLE TO PROVIDE A RANGE OF UP TO 10" F BETWEEN FULL HEATING AND FULL COOLING, AND HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70° F, AND COOLING AT A TEMPERATURE NOT LESS

2. ALL HVAC EQUIPMENT TO BE IN COMPLIANCE WITH TITLE 24, SECTION III.

5. ALL HVAC EQUIPMENT EFFICIENCES SHALL COMPLY WITH TITLE 24, SECTION 112. 4. ALL HVAC CONTROLS TO BE IN COMPLIANCE WITH TITLE 24, SECTION 122.

SUMMER & WINTER DESIGN TEMPERATURES SHALL COMPLY WITH C.C.R.-TITLE 24, PART 2, SECTION

T. ALL PILOTLESS IGNITION OF GAS APPLIANCES SHALL COMPLY WITH SECTION 115.

EMERGENCY POWER EQUIPMENT ON GRADE 33% OF OPERATING WEIGHT EMERGENCY POWER EQUIPMENT ON STRUCTURE, 50% OF OPERATING WEIGHT. THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR I = I AND SEISMIC ZONE Z=0.4

B. FOR EQUIPMENT WEIGHING LESS THAN 400 POUNDS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER AND THE

C. FOR EQUIPMENT WEIGHING 400 POUNDS OR MORE AND ALL SUSPENDED EQUIPMENT,

~ OR -----_____ OR ----~_____ $\leq \mathbb{I}$ ----- FD -----(M) ------ CD ------<<u>E===</u> G -\$-2--- $\langle \hat{\mathbf{A}} \rangle$ \bigcirc TYPE ----AC $\backslash I$ (M-2)____

DA

LEGEND

DUCTWORK DUCTWORK WITH LINING TRANSITION FROM ROUND DUCT TO RECTANGULAR DUCT OR VICE VERSA FLEXIBLE DUCT FLEXIBLE CONNECTION (FC) FIRE DAMPER VOLUME DAMPER MOTORIZED DAMPER SMOKE DETECTOR CONDENSATE DRAIN WALL LOWER ROUND DUCT RISER RECTANGULAR SUPPLY AIR RISER RECTANGULAR RETURN / EXHAUST AIR RISER CEILING DIFFUSER TYPE / CFM SHOWN CEILING RETURN / EXHAUST TYPE / CFM SHOWN SUPPLY DIFFUSER TYPE RETURN / EXHAUST GRILLE TYPE - TYPE OF EQUIPMENT EQUIPMENT NO. AIR CONDITIONING UNIT EXHAUST FAN DETAIL NO SHEET NO. SECTION SHEET NO. ROOM THERMOSTAT WITH LOCK-COVER REMOTE TEMPERATURE SENSOR INDEXED DIAL CONTROLLER REFERENCE NOTES

UNDERCUT DOOR (BY GENERAL CONTRACTOR)

DOOR LOUVER (BY GENERAL CONTRACTOR)

ARCHITECTURE AMPERE BRITISH THERMAL UNIT BACKFLOW PREVENTER CEILING DIFFUSER CEILING RETURN CHILLER COEFFICIENT OF PERFOMANCE CONTINUATION CUBIC FEET PER MINUTE DEGREE FAHRENHEIT DIFFERENTIAL PRESSURE SWITCH

ROUND DUCT

ABBREVIATIONS:

AIR HANDLER

AFF

ARCH

AMP BTU

BFP

CD

CH

COP

CFM

DPS DWG

ELEC

EAT

ENT

EER

ER

ESP

FLA

FPM

FC GPM

HZ

LAT

LWT

LBS LIN

LD

LF

LR

MAX

MBH MCA

MECH

MIN

NC

NO

OA

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RA

RG

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RPM

STD

50V

90

TG

TYP

ە «ھەمەھەم سىسى بىلىدىدە ھەر يەرەپلىلىرى بەرەپىدىدىدە مەرەپ مەمەر يەرەپىدىدە مەرەپ مەمەر بىلىدىدە مەرەپ مەرەپ

PSIG

PLUMB

EXIST

ABOVE FINISH FLOOR

DRAWING ELECTRICAL ENTERING AIR TEMPERATURE ENTERING WATER TEMPERATURE ENERGY EFFICIENCY RATIO EXHAUST FAN EXHAUST GRILLE

EXHAUST REGISTER EXTERNAL STATIC PRESSURE EXISTING EXPANSION TANK FFFT FULL LOADS AMPS

FEET PER MINUTE FLEXIBLE CONNECTOR GALLONS PER MINUTE HEATING BOILER HORSE POWER HOUR HERZ (FREQUENCY)

INCHES LEAVING AIR TEMPERATURE LEAVING WATER TEMPERATURE LIQUID LINE POUNDS

LINEAR DIFFUSER LINEAR FEET LIQUID REFRIGERATION MAXIMUM THOUSAND OF BTU/HR MINIMUM CIRCUIT AMPACITY

MECHANICAL MINIMUM NORMALLY CLOSE NORMALLY OPEN OUTSIDE AIR

PHASE PLUMBING PRESSURE DROP POUNDS PER SQUARE INCH GAGE

RETURN AIR RETURN GRILLE RETURN REGISTER

REVOLUTION PER MINUTE STANDARD SHUT-OFF VALVE STATIC PRESSURE

SUPPLY AIR SUCTION REFRIGERATION SUCTION LINE TEMPERATURE

TOTAL PRESSURE TRANSFER GRILLE TYPICAL

WATER GAGE



 \mathbb{O} Murrieta Valley Unified School Distric CN 0 3 A James \bigcirc 5 C CONSULTANT MATHAUDHU ENGINEERING, INC CONSULTING MECHANICAL ENGINEERS 3903 BROCKTON AVE., SUITE 5, RIVERSIDE, CA 92501 (909) 686-1775 FAX (909) 686-506 APPROVED APPROVED APPROVED IDENTIFICATION STANP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL GIIGT NO DATE BY REMARKS **GENERAL NOTES** LEGEND, SYMBOLS DRAWN DLB CHECKED SSM DATE JAN. 94 SCALE NONE JOB NO. 9216400

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			ann an an an an ann an ann an an an an a						ine					M	ECł	HANI	CA		R CC	ONE		NINC	g ur	VIT S	CHE	DUL					<u>an e ann i Sanna ann Ruimh an Ann a</u>				
	LOCATION	BUILDING	AIRFLOW	DRAWING SHEET NO.	MAKE	MODEL	SUPPLY AIR CFM	EXT. 6.P. NCH WG.	OSA	ENT. AIF	R TEMP. CO		TOTAL	HEATING CAP. (ELECTRIC	AL.	AFUE	THERMAL	The second secon	MPRESSOR TRLA EALLR	the second se	OND. FAN NO. IFLA E		MOTOR EL SUPPLY FA	N MOTOR	and the second	BUSTION F		POWER EX		SEER E		IGHT FILTER	REMARKS
(AC)	ROOF	BLDG A	DOUNFLOU	MLA	TRANE HIGH ET.	TCD211	1000	6	вег	80		47.4		280/178 203/		60 3	604	- -	810	8.3/2		30 1/2			B 7.4	1		· · ·	1	3/4 3.2	84	- 4	1.5 2,6	00 2" THROU	U COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST. R (3/4 HP, 32 FLA, 460V/1+)
		BLDG A	DOUNFLOW	MIA	TRANE HIGH EFF.	TCDIBI	6000	6	BTØ	80	61	127.6	171.1	250/175 203/	42 4	60 3	603	1 -	810	7.9/2	12.7	19 .B/	2 16	40	3 42	3 403	ine	B	2.0	3/4 32	8A	- ie	22	00 2' THROU	
			DOUNFLOW	MIB	HIGH EFF.		4000	8	360	80	67	81.2	116.9	180/100 122	ซเ 4	60 3	60 3	0 -	810	B/2	1.01	71 1/1	1 30	9.3	2 3.4	4 23.6	1/20	B .	1.4	3/4 32	8.4	- te	00 1.6		U COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST. IR (3/4 HP, 32 FLA, 4601/10)
A A A A B	ROOF	BLDG B	DOUNFLOW	MIB	TRANE HIGH EFF.		3,400	£	480	80	67	73.8	39 <i>0</i>	130/100 122/	81 4	60 3	602	9	B 1 <i>D</i>	4.3/2	10.0	א ור	1 30	93	2 3.4	4 23.6	1/20	3	1.4	3/4 32	8.4	- 1e	De 18	50 2' THROU	U COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST. ER (3/4 HP, 32 FLA, 460V/1+)
2 B (AC) 3 B		······	DOUNFLOW	MIB	TRANE			6	480	00		73.8	93.0	130/100 122	81 4	60 3	60 2	9 -	810	43/2	100	א ור	1 3.0	83	2 3.4	4 23.6	1/20	В	1.4	3/4 3.2	8.4	- 1e	De 1,5	50 2' THROU	
AC AC B	ROOF		DOUNFLOW	MIB	TRANE HIGH EFT.	•			B88	80		73.8	99 <i>0</i>	130/100 122/	81 4	60 3	602	a - 'e	810	43/2	100	אז וד	1 30	9.3	2 34	4 23.6	1/20	5	14	3/4 3.2	8.4	- ie	00 18	BO 2' THROU	
				MIB	TRANE	TCD061	2000		55B	80	67	41.8	386	90 7:	. 4	60 3	6010	5 18.0	810	5/1	10.0	71 3/	1 13	3.2	3/4 3.1	1 63	1/20	.4	10		-	120	- 0	10 2' THROU	
AC B		·····	HORIZONTAL		HIGH EFF.	1	6,000	6	1080		67	127.6	571J	250/175 203	142 4	60 3	603	4 _	810	TBR	12.7	19 B/	2 16	4.0	3 42	3 405	ino	8	2.0	3/4 32	8.4	+. 1e	2,5	00 2" THROU	U COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST. R (3/4 HP, 32 FLA, 460V/14).
Alm Alo Al-			HORIZONTAL	MIB	HIGH EFF. TRANE HIGH EFF.	YCDIBI	6,000	6	1050	80		127.6	נודו	250/173 203		60 3	603	- 1	810	7.8/2	12.7	78 B/	2 1.6	4.0	3 4.8	3 403	1/100	8	20	3/4 9.2	84	- 1e	22		U COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST. R (3/4 HP, 3.2 FLA, 460V/10).
AC	ROOF		DOUNFLOW	MIC	HIGH EFF. TRANE HIGH EFF.	·			825	80		BLG	70.4	. 120 9'	1 4	60 3	60 1	- 1	810	6.25/1	9.7	64 B/	n 2.4	8.4	2 32	2 16.1	1/20		10		-	le	o le	DOO 2" THROU	
	ROOF	BLDG C	DOUNFLOW	MIC	HIGH EFF. TRANE HIGH EFF.			в	600	80	e Si wasan ing katalan kat	B16	70.4	120 9		60 3	60 18		B 10	628/1	9.7 @	64 B/	1 24	3.4	2 . 32	2 16-1	1/20	A	10		-	10	e 10	2" THROU AWAY FILTE	
			DOUNFLOW		TRANE			<u> </u>	450			418	58,6	900 71	. 4	60 3	60 16	5 780	810	B/1	100	ד' א	1 13	3.2	3/4 3.1	1 6B	1/20	A	10		-	12.0	- 8	· · · · · · · · · · · · · · · · · · ·	U COMPLETE WITH ROOF CURB ECONOMIZER
AC AC		BLDG C	DOUNFLOW	MIC		TCD061		B	450	80		418	38.6	90 73	4	60 3	60 10	5 78.0	810	5/1	100	71 3/	1 1.3	3.2	3/4 3.1	1 6.5	1/20	A	10			12.00	- 8	10 2" THROU AWAY FILTE	COMPLETE WITH ROOF CURB ECONOMIZER
AC AC			DOUNFLOW	MIC	TRANE			6	450	80		41.8	586	30 73	4	60 3	60 10	5 78.0	810	БЛ	100	71 B/	1 1.3	32	3/4 3.1	6.5	1/200	.4	10		-	12.0	1	10 2' THROU	
Al a C			DOUNFLOW	·····	HIGH EFF.		2000	в	450	++		41.8	586	90 73	4	60 3	sone	5 78.0	810	5/1	100	71 B/	1 13	3.2	3/4 3.1	68	1/20	4	10	*	-	12.0	- 8	10 2" THROU	
Ale C Ale C			DOUNFLOW	MIC	HIGH EFF. TRANE HIGH EFF.		2000	в	450			41.8	586	90 73	4	60 3	60 10	18.0	810	ВЛ	100	71 5/	1 1.3	3.2	3/4 3.1	I 6.5	1/20	4	10		- `	12.00	- 0	10 2' THROU	COMPLETE WITH ROOF CURB ECONOMIZER.
AC			DOUNFLOW		TRANE	YCD061			430			410	38.6	90 73		60 3	60 16	78.0	810	БЛ	100	71 3/	1 1.3	3.2	3/4 3.1	6.5	1/20	4	10	***	-	12.00	- 8	TO 2" THROU	COMPLETE WITH ROOF CURB ECONOMIZER
			DOUNFLOW		HIGH EFT. TRANE HIGH EFT.		2,000		450	80		418	586	90 73	4	60 3	6010	5 78.0	810	· B/1	100	71 · B/	1 1.3	3.2	3/4 3.1	63	1/20	A	10		-	12.00	- 8	TO 2' THROU	COMPLETE WITH ROOF CURB ECONOMIZER
AC			DOUNFLOW	MIC	HIGH EFF. TRANE HIGH EFF.	· · · · · · · · · · · · · · · · · · ·	3,000		430			63.1	85.1	120 9	4	60 3	60 2	2 -	81.0	443.8/2	1.163	BI 5/	1 2.4	8.	2 4,4	4 is.i	1/20	.4	10	1/2 1.6	3.8	- 1e	e 1,10	2' THROU	COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST.
		BLDG C	DOUNFLOW		HIGH EFF.	·	3,000	6	180	80		08.6		130/100 122/	b i 4	60 3	60 3	2 -	810	3/2	10.1	TI 3/	2 30	60	3 3.4	1 23.6	1/20	4	10	3/4 3.2	8.4	- 10	Ø 1,9		U COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST. ER (3/4 HP.32 FLA, 460V/4).
			DOWNFLOW		HIGH EF	++	3,000	6	510	80		08.6		130/100 122/		50 3	60 3	2 -	810	3/2	10.1	TI 19/1	2 30	9.3	3 3.4	1 23.6	1/20	A	10	3/4 32	8.4	- 1e	e,1 Q		U COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST. ER (3/4 HP,32 FLA, 460V/+).
			DOWNFLOW		HIGH EFF.		4,000	<u>A</u>	465			87.2	- <u></u>	130/100 122/		60 3	60 30	0 -	810	5/2	10.1	11 1/1	30	9.3	2 3.4	1 23.6	100	4	10	3/4 32	84	- 1e	0 10		COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST. R (3/4 HP, 32 FLA, 460V/1+)
AC			DOWNFLOW	MID	TRANE		4000	6	660	80	<u> </u>	87.2		150/100 122/		60 3	6030	0 -	B 1 <i>0</i>	5/2	101	NI II	3.0	9.3	2 3.4	23.6	1/20	.4	10	3/4 3.2	8.4	- 1e	0 16		U COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST. R (3/4 HP, 32 FLA, 4601/10)
2 D AC			DOWNFLOW	MID	HIGH EFF. TRANE HIGH EFF.	TCD211	1,000	6	1020		<u></u>	47.4		280/178 203/			60 4	7 -	810	8.3/2	14.6 9	20 1/2	30	93	5 7.6	54.9	1/10	B 3	20	3/4 32	BA	- 9	B 2,6		U COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST. R (3/4 HP, 32 FLA, 4601/14)
Ala D Ala D Ala D Ala D Ala D Ala D Ala D		,	DOUNFLOW	MID	HIGH EFF. TRANE HIGH EFF.	TCD211	7,000		TBØ	80		47.4		250/178 203/		60 3	60 4	1 -	81.0	8.3/2	14.B 9	300 1/2	30	93	5 7.6	54.9	1/10	8 3	2.0	3/4 32	8.4	- 9	3 2,6		U COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER EXHAUST. R (3/4 HP, 32 FLA, 4601/14)
AC D			DOUNFLOU		HIGH EFF. TRANE HIGH EFF.	<u> </u>	3,400	<u>s</u>	1950	<u> </u>		73.8		150/100 122/		60 3	60 24	- 6	. SID	43/2	100	א וד	30		2 3.4	23.6	1/20	A	10	3/4 32	8.4	- 1e	@ 1B		COMPLETE WITH ROOF CURB AND ECONOMIZER
			DOWNFLOW	- time and the second	HIGH EFF. TRANE HIGH EFF.		3,400		1580			73.0		150/100 122/		60 3	60 39	8 - 8	81.0	43/2	100	NI IT	30	6.0	2 34	1 23.6	1/20	.4	10	3/4 3.2	8.4	- 1e	Ø 15		COMPLETE WITH ROOF CURB AND ECONOMIZER
			DOUNFLOW	MIE	HIGH EFF. TRANE HIGH EFF.		2,000	8	255	80		418	586	90 73	···	60 3	6010		81.0	вл	100	TI B/	1 1.3	3.2	3/4 3.1	68	1/20	*	10		-	12.00	- 8		COMPLETE WITH ROOF CURE ECONOMIZER
			DOUNFLOW		HIGH EFF. TRANE HIGH EFF.			8. 5	270	80		41.8	586	90 73		60 3		5 780		вл	100	TI B/	1 13	3.2	3/4 3.1	6.5	1/20		100		-	12.0	- 8		COMPLETE WITH ROOF CURB ECONOMIZER
						TCD061			270	80		41.8		90 71		60 3	60 10		810	8/1	·	71 8/			3/4 3.1		1/20		10		-	12.0			U COMPLETE WITH ROOF CURB ECONOMIZER.
AC 3 E AC 6 E		ada, aya da miyani ka miyani da da miya da da miya da maya da maya da da miya da da miya da da miya da da miya	DOUNFLOW	F71.52	HIGH EFF.				270	┢	······	41.8	386	90 73		60 3		5 180	810	вл		TI B/			3/4 3.1				10		-	120			U COMPLETE WITH ROOF CURB ECONOMIZER
6/E	ROOF	DLDG E	DOUNFLOW		HIGH EFF.	TCD061	2,000																								+				
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EXHAUST FAN SCHEDULE

inter Martin gala Salaki es 2003

ITEM	BUILDING	I	FAN		LOCATION	AREA SERVED	GAM	T.P.	DRIVE	ļ	1	TOTOR	· · · · · · · ·	CONTROL	WEIGI
	DESIGNATION		MAKE	MODEL		L		IN WG.		HPAU	RPM	VOLTS	PHASE		(LBS
	BLDG A	CABINET CEILING	LOREN	GEMINI 4-13	CEILING FLUOH	TOILET AØ2	18	2	DIRECT	-/35	1300	1115	1	LIGHT BUTCH	23
F ZA		INLINE FAN		GEMINI 6-B	CEILING	WOMEN'S RESTROOM	330	B		1/4/-	1600			THE CLOCK	50
<u></u>		CABINET CEILING		GEMINI 5-15	CEILING FLUGH	MEN'S RESTROOM	225	2		-/158	500			<u> </u>	40
Ŧ,				GEMINI 4-IBA		TOILET A3I	30	2		-/63	800			LIGHT BUTCH	23
E.		CABINET CEILING		GEMINI 4-15	CEILING FLUOH	STORAGE A26	1120	2		-/35	830			ON-OFF BUITCH	28
E.		CABINET CEILING		GEMINI 9-19	CEILING FLUOH	ELECTRICAL ROOM	300	2		-/155	•			T-ERMOSTAT	40
Ð	BLDG B	INLINE FAN		GEMINI 6-B	CEILING	GIRL'S RESTROOM	460	5	i.	V4/-	-			THE CLOCK	50
						BOY'S RESTROOM	380				•				50
5.	<u></u>			GEMINI 5-15		NOMEN'S RESTROOM	2700			-/155	•				35
Ð.				l		MEN'S RESTROOM	270				•				38
E.		CABINET CEILING		GEMINI 4-10	CEILING	TOILET	ъ	2		-/25	1050			LIGHT BUITCH	20
E				GEMINI 4-18A		CUSTODIAN BØG	100			-/63	800				25
Ŧ.		KITCHENHOOD EXHAUST FAN		195LPB	ROOF	KITCHENHOOD IN COOKING AREA	4030	2	BELT	3/-	•	460	3	SEE WIRING DIAGRAM	420
Ð.	BLDG C	INLINE FAN		GEMINI 6-B	CEILING	GIRL'S RESTROOM	370		DIRECT	1/4/-		1135	1	TIME CLOCK	30
22						BOY'S RESTROOM		ļ			• •				50
52		CABINET CEILING		GEMINI 4-10	CEILING	UCHEN'S RESTROOM	65	2		-/25	1080			LIGHT SUITCH	20
影						MEN'S RESTROOM									
民	BLDG D					TOILET	70	2							
E.						TOILET DØ1			,						
E.						TOILET					Ì				
E.		NLINE FAN		GEMINI 6-B	CEILING	GIRL'S RESTROOM	560	ع		V4/-	-			TIME CLOCK	50
B	· · · · · · · · · · · · · · · · · · ·	CABINET CEILING		GEMINI 3-10	CEILING	UCHEN'S RESTROOM	2100	2		-/81	1050			LIGHT SUITCH	38
B			;			MEN'S RESTROOM				1					
B.		INLINE FAN		GEMINI 6-B	CEILING	BOY'S RESTROOM	360	В		1/4/-	-			TIME GLOCK	50
影		CABINET CEILING		GEMINI 4-IBA	CEILING	CUSTODIAN D27	150	2		-/63	B50			LIGHT BUITCH	25
E)	BLDG 'E'	ROOF EXHAUSTER	LOREN	120C2B	.	GIRLO LOOKER RM	1160	B	DIRECT	V16/-	1365	115		TIME	100
	BLDG 'E'	ROOF EXHAUSTER	LOREN	120C2B	ROOF	BOTS LOCKER RM	1160	, 9 5	DIRECT	V16/-	1365	115	1	TIME	100
	BLDG 'E'	INLINE FAN	LOREN	GEMINI B-IB	CEILING	WOMANS SHOWER EØ4	240	в	DIRECT	-/135	1500	115	1	LIGHT	40
	BLDG 'E'	INLINE FAN	LOREN	GEMINI B-IB	L	MANS SHOULER	240	B	DIRECT	-/155	1500	115	1	LIGHT	40
	BLDG 'E'	CABINET FAN	LOREN		EXPOSED		200	2	DIRECT	-/8	1050	115	1	ON-OFF	· 35
E)	BLDG 'E'	CABINET FAN			EXPOSED	1	200	2	DIRECT	-/81	1050	115	1	ON-OFF BUITCH	38
<u>e/e</u>														•	
				· · · · · · · · · · · · · · · · · · ·					2 2 2				+	``	
			· · · ·					*				[

· (EF-1) SHALL BE PROVIDED COMPLETE WITH 36' HIGH VENT CURB, AIR DIVERTERS AND GREASE TERMINATORS.

· · · · · · · · · · · · · · · · · · ·	INSULATI	on s	CHE	DULE		· · · ·	, ,
ITEM	TYPE	MIN. THICKNESS	DENSITY	MIN. INSTALLED CONDUCTANCE	MIN NOTALLED THERMAL REDISTANCE	MAX. VAPOR BARRER RATING	CCR T-24 PART 6 COMPLIANCE
DUCT ON ROOF OR EXTERIOR OF BUILDING	FIBER GLASS DUCT	1-1/2*	20 PCF	¢٤	63	BPERM	BECTION 2
DUCT WITHIN CEILING	FIBER GLASS DUCT	I 1*	TS PCF	A	25	BPERM	SECTION 12
8PACES, MECHANICAL ROOMS	FIBER GLASS DUCT LINER (SEE PLANS)		UB POF	25	4.0	BPERM	BECTION 12
HOT WATER SUPPLY AND RETURN PIPING (PROVIDE ADDITIONAL WEATHER PROTECTION FOR EXPOSED PIPING)	FIBER GLASS WITH ALL-SERVICE JACKET AND SELF-SEALING LAP.		•	/	•	-	SECTION D

	DESK	gn co	DNDIT	IONS							
	ait000	r temp.	NDOOR TEMP.								
PERIOD	FOB	t wb	TOB	t ub	% RH						
SUMMER	102	72	18	•••	50						
WINTER	30		TØ	n na 12 milion de la constante							

EQUIPMENT SCHEDULE
KITCHEN HOOD MAKE-UP AIR EVAPORATIVE COOLER (COOKING AREA) UNIT SHALL MEET THE FOLLOWING CHARACTERISTICS: SUPPLY FAN
EF C C C C C C C C C C C C C

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120 LB6, EA

CONTROL

. ON-OFF BUITCH . FUME HOOD BY (E) WITH INDICATING

LIGHT AND ENGRAVED LABEL 'HOOD EXHAUST FAN'.

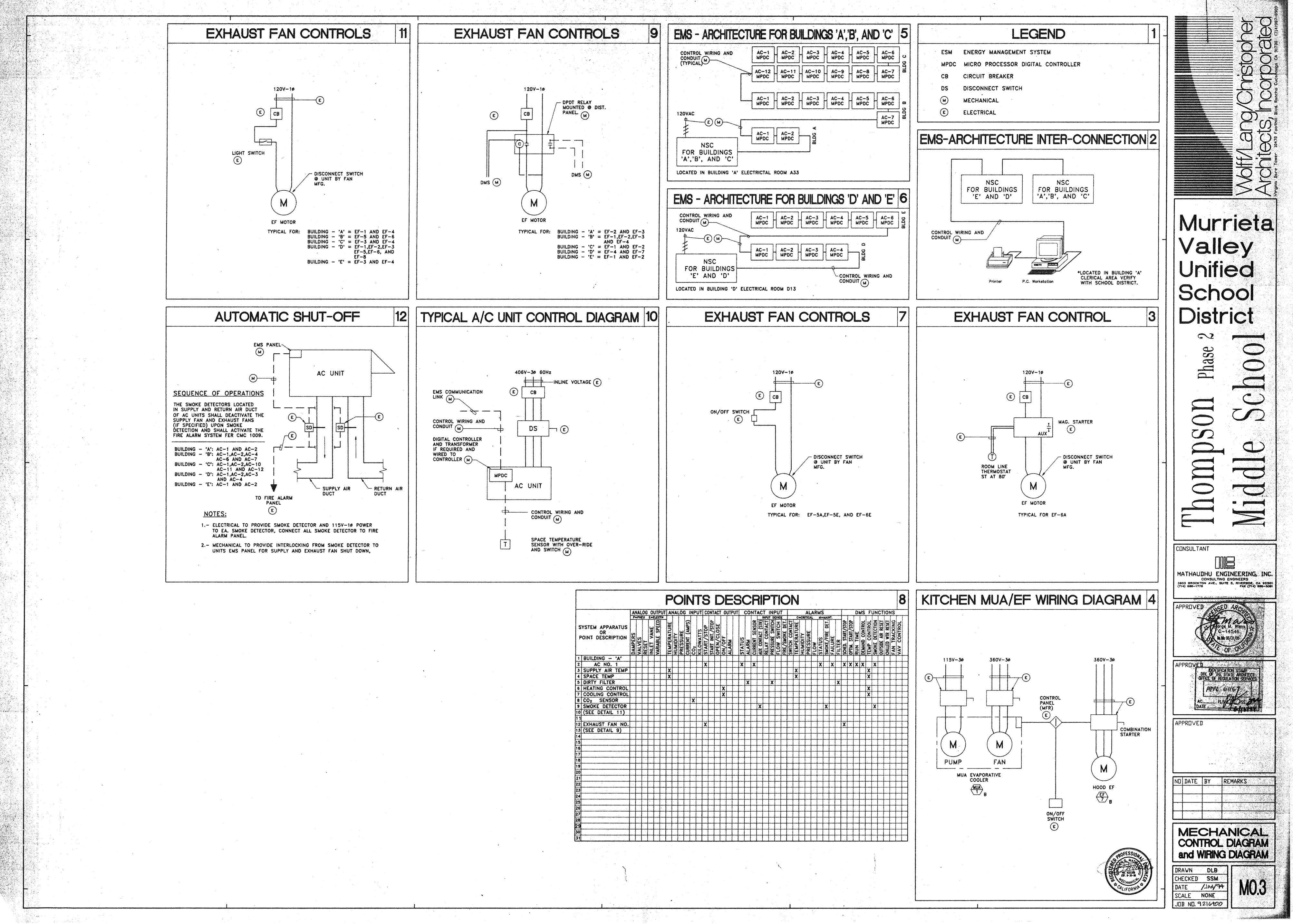


		NECK	PANEL		TON SCHE	1 	T	
TEM	DESCRIPTION	SIZE (N)	SIZE	CPM RANGE	ACCESSORIES	CEILING		REMARKS
	MODULAR SUPPLY AIR DIFFUSER	6×6	24 × 24	0 - 125	OPPOSED BLADE DAMPER	T-BAR	METALAIRE SERIES 3000	COORDINATE PANEL SIZE W AR REFLECTED CEILING DRAWING
•		8 × 8		26 - 220				
3		10 × 10		221 - 350				
⊘		12 × 12		351 - 500		·		
E		14 × 14		501 - 650				·
F		165 x 165		651 - 888				
<u>a</u>		18 x 18		886 - 1120				
H		20 x 20		1390 - 1700				
	· · · ·	6 × 6	*	0 - 123		HARD OR		
3		8 × 8	40.	126 - 220				
ĸ		10 x 10	•	221 - 350				
Ū.		12 × 12	•	351 - 500				
m		14 x 14	•	501 - 650				
N	·····	16 x 16	•	651 - 888	· ·			
٥		16 x 18		886 - 1120				
ē)		18 x 18	•	200 - 1400	·	DUCT MOUNTED		α.
Š		20 x 20		1401 - 1700		T-BAR		
	1							
$\overline{\mathbf{D}}$	PERFORATED RETURN AIR CEILING REGISTER	6 × 6	24 x 24	Ø - 12 3	OPPOSED BLADE DAMPER I ROUND NECK ADAPTER	T-BAR	METALAIRE SERIES 1000R	COORDNATE PANEL SIZE W ARCH REFLI CEILING DRAWINGS. DUCTED RE
2		8 x 8	1	26 - 220				
3		9 × 9		221 - 280				
4		io x io		281 - 345				
\$		12 × 12		346 - 500				
•>		₿×₿		501 - 180				
7		18 x 18		181 - 1950				
•>		22 × 22	•	1381 - 1680				
•		8 × 8	*	126 - 220		HARD		
		9 × 9	•	221 - 280		ł		
5		10 × 10		281 - 345				
2		2 × 2	•	346 - 500	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
3		ð x Þ		501 - 780				
<u>-</u>		18 x 18	•	781 - 1350				
b	EXHAUST REGISTER	8 x 8	•	0 - 250		HARD	METALAIRE	
6	EXHAUST REGISTER	10×10		251 - 360	<u></u>	HARD	METALAIRE	
		al and a state of the second state		·				
11 A.			· · · · · · · · · · · · · · · · · · ·	r	1	•	E Contraction of the second se	

jite Shiri kana

NOTE, SCHEDULE SHOUN IS OFFICE STANDARD. ALL ITEMS MIGHT NOT APPEAR ON THE FOLLOWING DRAWINGS.

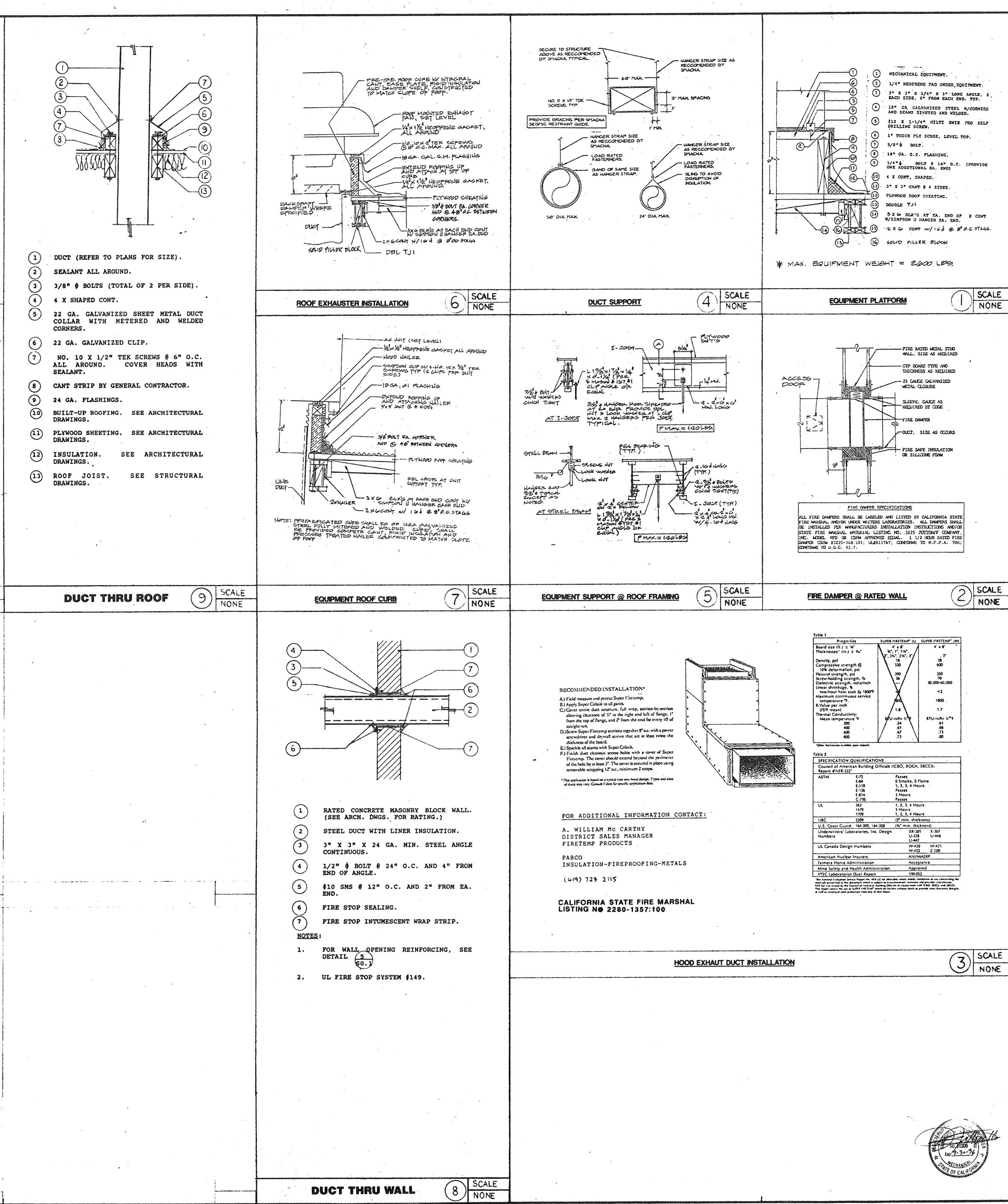
Corporated Corporated (14) (off/Lang chitects, Murrieta Valley Unified School District osed a C **DSOD** C CONSULTANT MATHAUDHU ENGINEERING, INC. CONSULTING ENGINEERS 3903 BROCKTON AVE., SUITE & RIVERSIDE, CA 92801 (714) 688-1778 RAX (714) 688-5081 APPROVED PPROVED DENTIFICATION STALP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICE NO DATE BY REMARKS EQUIP. SCHEDULES DESIGN CONDITIONS DRAWN DLB CHECKED SSM MO.2 DATE JAN. 94 SCALE NONE JOB NO. 9216400



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	-					UTPU	T A	NA	LOC	3 1	NP	UT	CC)NT	ACT	0	UTP	UT		co	NT		
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S	YSTEM APPARATUS				ш	SPEED	TEMPERATURE			(AMPS			đ	START INIT./STOP	OPEN/CLOSE						SENSOR	AUX CONTACT (STR)	
	OR de	S		l	VANE	1 1	TA	1	RE			E	ST	1./	3						SE	5	
P	OINT DESCRIPTION	DAMPERS	S			VARIABLE	E B	HUMIDITY	PRESSURE	CURRENT		KILOWATTS	START/STOP	N	ગ	ON/OFF	-		S	5	E	MIA	
		MP	Ξ	RESET	INLET	N.	P P	Ī	ES	RE	N	0	AR'	E	S	2	ALARM		STATUS	ALARM	CURRENT	8	
		DA	X	μ.	Ī	X	μ	17	PR	3	ço	E	5T	STA	g	Z	A		ST	AL	3	Š	1
1	BUILDING - 'A'		1	-			1-	1			-		Ť	-		-			-		-		f
2	AC NO. 1		1				\top		\square				X						X		X		t
3	SUPPLY AIR TEMP						X	1										-					t
	SPACE TEMP						X		1														t
5	DIRTY FILTER						T								1	-				X			t
5	HEATING CONTROL						1-	1							1	X							t
7	COOLING CONTROL						1									X							t
	CO2 SENSOR						\top				X						1						t
1	SMOKE DETECTOR	۰.					1															X	ţ
o	(SEE DETAIL 11)						1	1									1					******	t
1							\top							÷			1						t
2	EXHAUST FAN NO.						T	Γ					X				1					·.	Ţ
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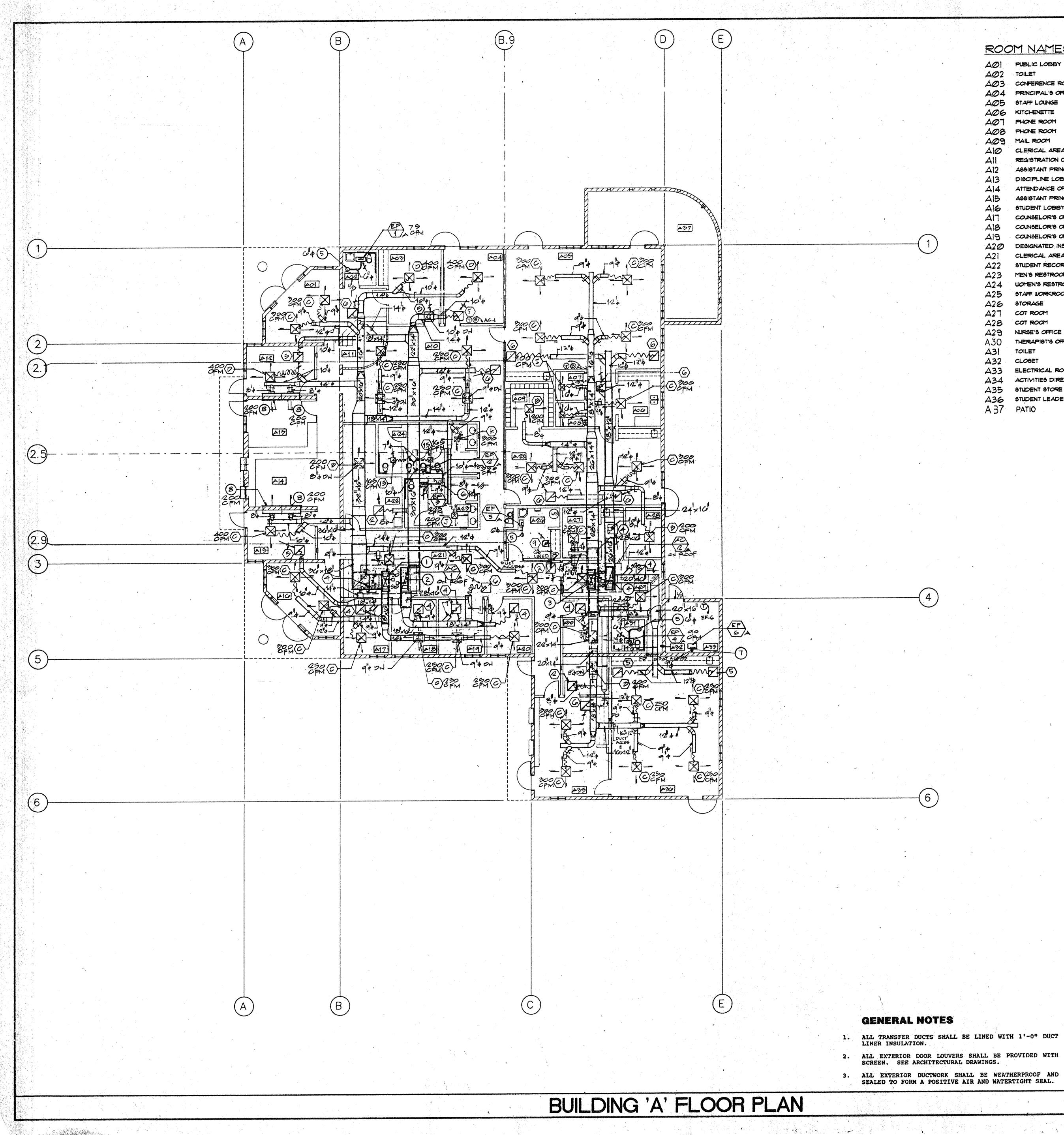
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氝 L. Murrieta Valley Unified School District \bigcirc ĊD \bigcirc (1) 0 b E O Contraction of the second seco CONSULTANT MATHAUDHU ENGINEERING CONSULTING ENGINEERS (714) 888-1778 3903 BROCKTON AVE, SUITE 5, RIVERSIDE, CA 92501 APPROVED APPROVED APPROVED IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL GII NO DATE BY REMARKS DETAILS DRAWN BS CHECKED BS DATE JAN. 94 SCALE NONE JOB NO. 926400



• 1	
ROC	DM NAMES
AØI	PUBLIC LOBBY
AØ2	TOILET
AØ3	CONFERENCE ROOM
AØ4	PRINCIPAL'S OFFICE
AØ5	STAFF LOUNGE
A06	KITCHENETTE
AOT	PHONE ROOM
A08	PHONE ROOM
AØ9	MAIL ROOM
AIØ	CLERICAL AREA
All	REGISTRATION CUBICLE
A12	ASSISTANT PRINCIPAL'S OFFICE
AI3	DISCIPLINE LOBBY
A14	ATTENDANCE OFFICE
A15	ASSISTANT PRINCIPAL'S OFFICE
A16	STUDENT LOBBY
AIT	Counselor's office
A18	Counselor's office
AIS	COUNSELOR'S OFFICE
A2Ø	DESIGNATED INSTRUCTIONAL SERVICES OFFICE
A21	CLERICAL AREA
A22	STUDENT RECORDS ROOM
A23	MEN'S RESTROOM
A24	WOMEN'S RESTROOM
A25	Staff Workroom
	STORAGE
	COT ROOM
	COT ROOM
	NURSE'S OFFICE
	THERAPIST'S OFFICE
	TOILET
	CLOBET
	ELECTRICAL ROOM
	ACTIVITIES DIRECTOR'S OFFICE
	STUDENT STORE
	STUDENT LEADERSHIP ROOM
A 37	PATIO

REFERENCE NOTES

- 60" X 20" LINED SUPPLY AIR DUCT UP TO UNIT ON ROOF. PROVIDE TRANSITIONS AS REQUIRED AND CONNECT TO UNIT WITH FLEXIBLE CONNECTOR. 60" X 20" LINED RETURN AIR DUCT UP TO UNIT ON ROOF. PROVIDE TRANSITIONS AS REQUIRED AND CONNECT TO UNIT WITH FLEXIBLE CONNECTOR.
- (3)
- 60" X 18" LINED SUPPLY AIR DUCT UP TO UNIT ON ROOF. PROVIDE TRANSITIONS AS REQUIRED AND CONNECT TO UNIT WITH FLEXIBLE CONNECTOR.

60" X 18" LINED RETURN AIR DUCT UP TO UNIT ON ROOF. PROVIDE TRANSITIONS AS REQUIRED AND CONNECT TO UNIT WITH FLEXIBLE CONNECTOR. (5)

6" © EXHAUST DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED AND CONNECT TO EXHAUST FAN WITH FLEXIBLE CONNECTOR.

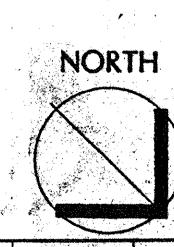
6 12" Ø EXHAUST RISER DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. DUCT BRANCHES CONNECTED TO RISER SHALL NOT BE IN THE SAME PLANE.

 $\overline{7}$ 9" • EXHAUST DUCT UP THRU ROOF AND CONNECT TO ROOF JACK. PROVIDE TRANSITION AS REQUIRED AND CONNECT TO EXHAUST FAN WITH FLEXIBLE CONNECTOR.

SIDEWALL ADJUSTABLE LINEAR SLOT DIFFUSERS. DIFFUSERS SHALL MEET ALL THE FOLLOWING CHARACTERISTICS: SURFACE MOUNT, NUMBER OF SLOTS = 2 WITH $1/2^{m}$ SLOT, LENGTH = 4' (EA.), (8) AIR FLOW = 50 CFM/FT., NC=30 AND COMPLETE WITH INSULATED BOOT PLENUM. DIFFUSER SHALL BE METAL AIRE SERIES 6000 WITH BPI INSULATED BOOT PLENUM.

1. ALL TRANSFER DUCTS SHALL BE LINED WITH 1'-O" DUCT LINER INSULATION. 2. ALL EXTERIOR DOOR LOUVERS SHALL BE PROVIDED WITH SCREEN. SEE ARCHITECTURAL DRAWINGS.

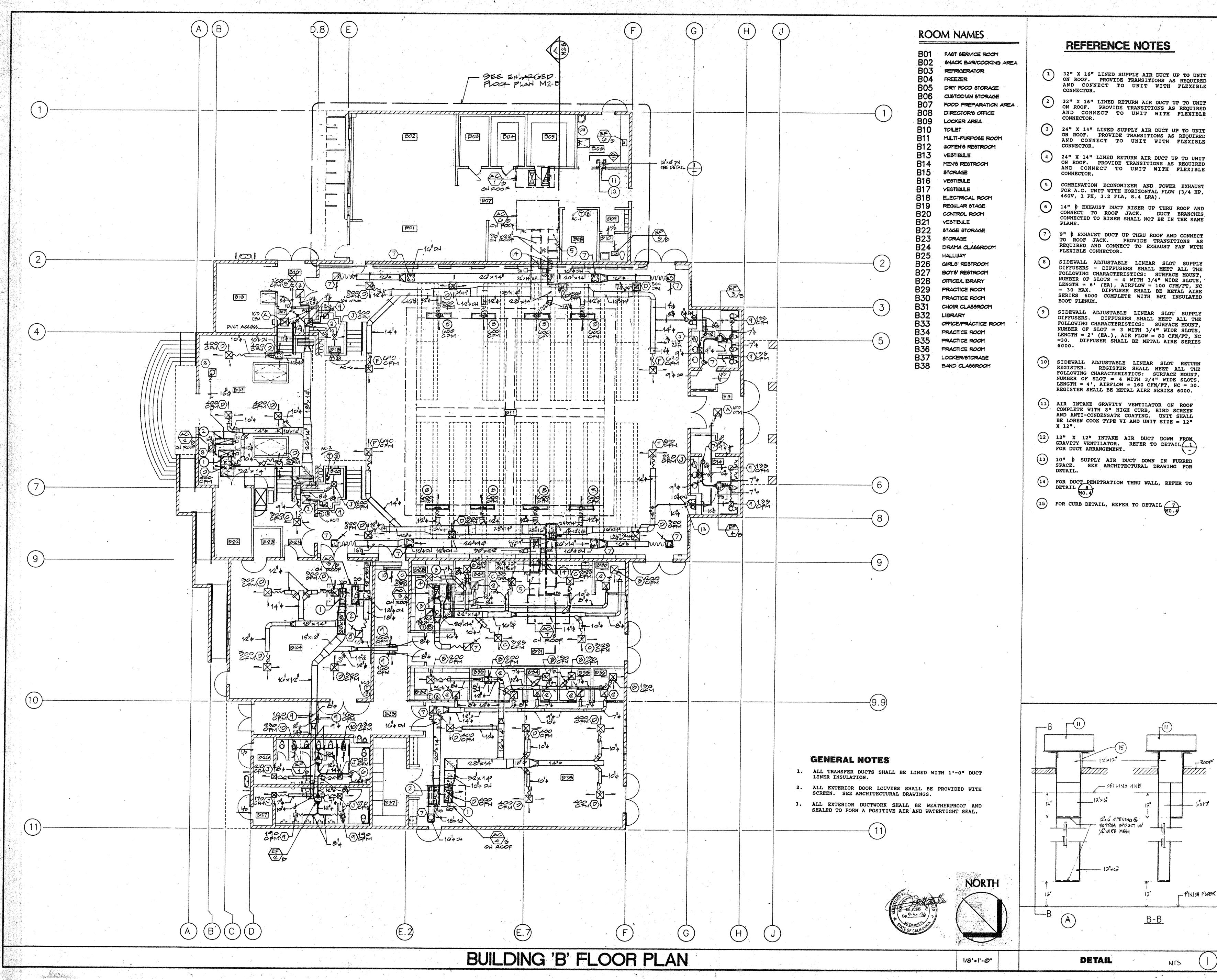
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1/8"=1'-0"

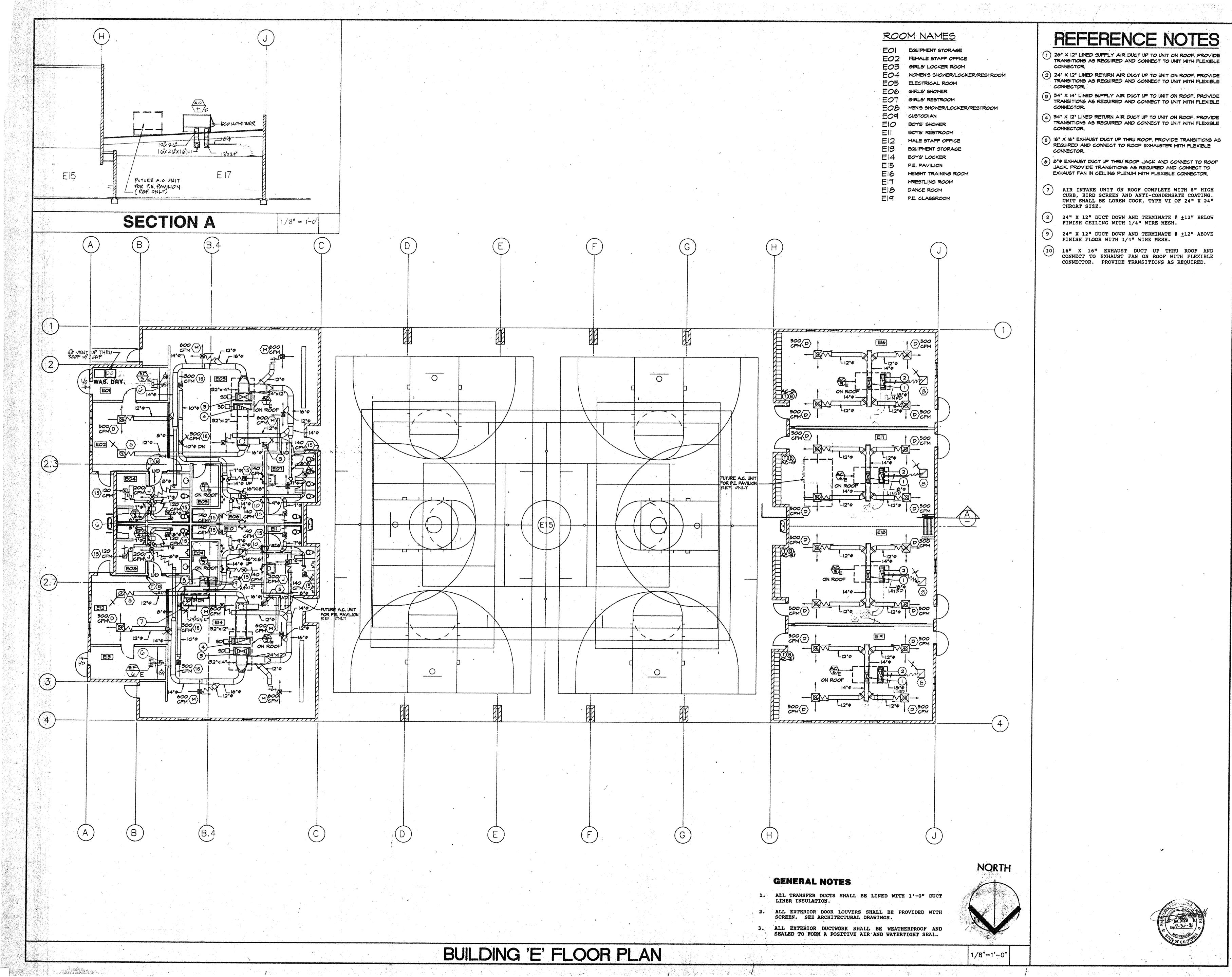


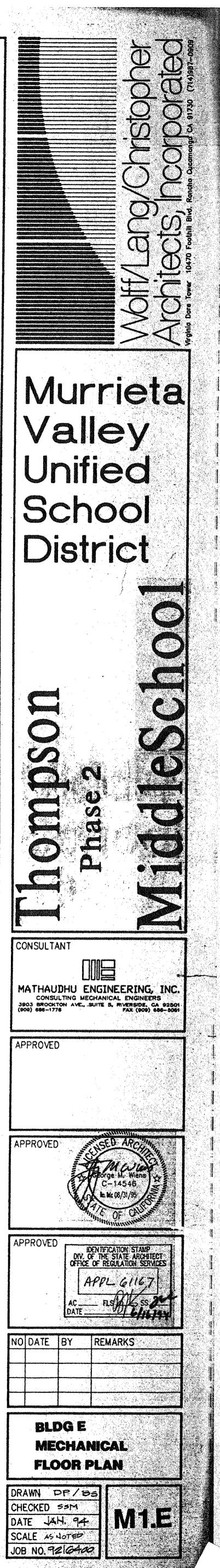
<u>_</u> · A Murrieta /alley Unified School District CONSULTANT ATHAUDHU ENGINEERING, CONSULTING MECHANICAL ENGINEERS APPROVED APPROVE APPROVE NO DATE BY REMARKS BUILDING 'A' MECHANICAL FLOOR PLAN DRAWN CC/BTS CHECKED SSM DATE JAN. 94 MJ.A SCALE AS NOTED

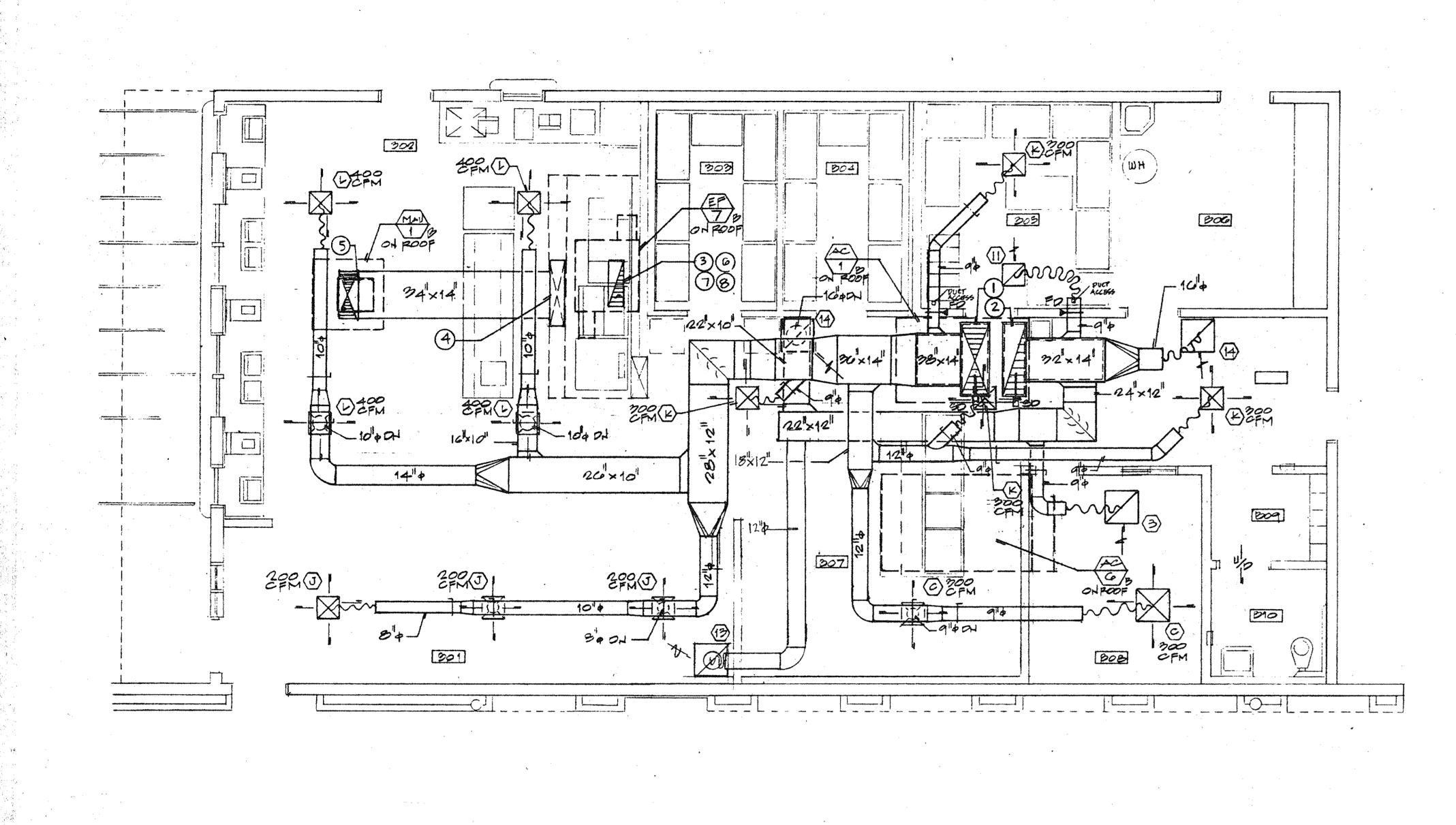


01	FAST SERVICE ROOM
02	BNACK BAR/COOKING AREA
	REFRIGERATOR
04	FREEZER
05	DRY FOOD BTORAGE
06	CUSTODIAN STORAGE
07	FOOD PREPARATION AREA
80	DIRECTOR'S OFFICE
09	LOCKER AREA
10	TOILET
11	MULTI-PURPOSE ROOM
12	women's restroom
13	VEGTIBULE
14	MEN'S RESTROOM
15	STORAGE
16	VESTIBULE
7	VESTIBULE
8	ELECTRICAL ROOM
9	REGULAR STAGE
20	Control Room
21	VESTIBULE
22	BTAGE BTORAGE
23	STORAGE
24	DRAMA CLASSROOM
25	HALLWAY
26	girls' reatroom
27	Boys' restroom
28	OFFICELIBRARY
29	practice room
50	PRACTICE ROOM
51	CHOIR CLASSROOM
52	LIBRARY
33	OFFICE/PRACTICE ROOM
34	PRACTICE ROOM
55	PRACTICE ROOM
56	PRACTICE ROOM
57	LOCKER/STORAGE
88	BAND CLASSROOM

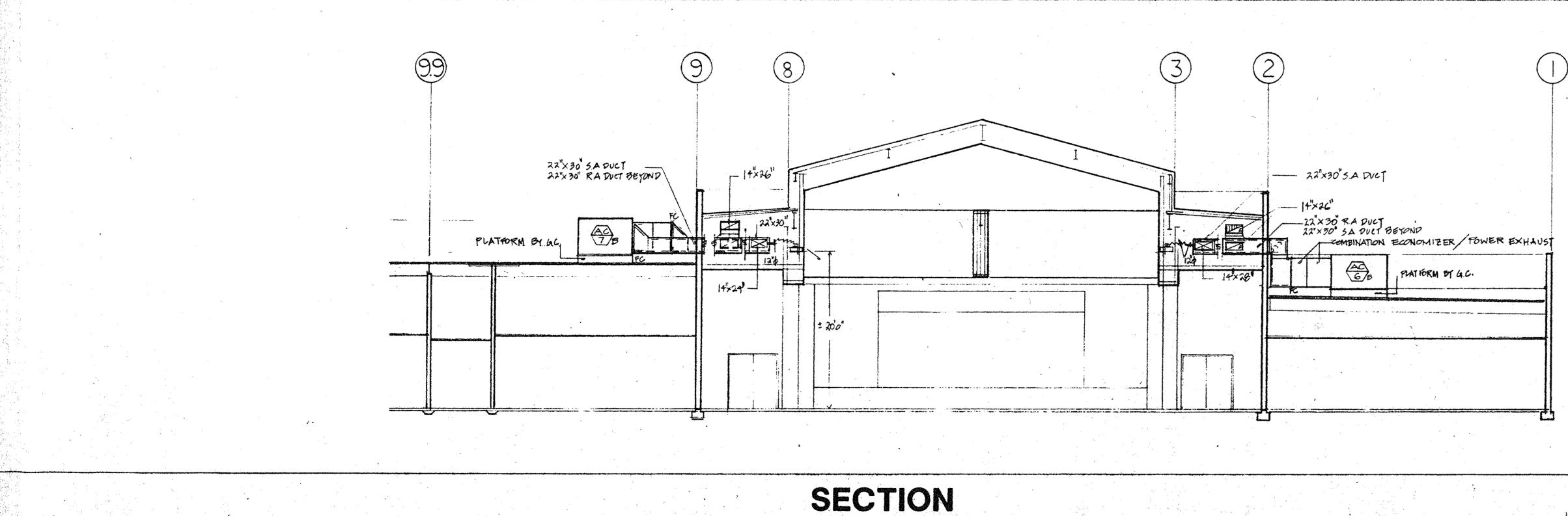
 $\bigcirc \mathfrak{s}$ ර් ମୁ ଆ D: Murrieta Valley Unified School District Versee C S Section Se 6 . S. CONSULTANT MATHAUDHU ENGINEERING, INC. CONSULTING MECHANICAL ENGINEERS 3903 BROCKTON AVE., SUITE 5, RIVERSIDE, CA 92501 (909) 656-1776 FAX (909) 656-5081 APPROVED APPROVED APPROVED DENTIFICATION STANP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL GIGT IVAIE AT CHARGE NO DATE BY REMARKS BUILDING 'B' MECHANICAL FLOOR PLAN DRAWN CC/BTS CHECKED SSM M1.B SCALE AS NOTED JOB NO.9216400







BUILDING 'B' MECHANICAL KITCHEN FLOOR PLAN



REFERENCE NOTES

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(8)

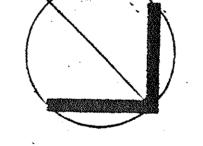
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- 1 38" X 14" LINED SUPPLY AIR DUCT UP TO UNIT ON ROOF. PROVIDE TRANSITIONS AS REQUIRED AND CONNECT TO UNIT WITH FLEXIBLE CONNECTOR.
- 2 36" X 14" LINED RETURN AIR DUCT UP TO UNIT ON ROOF. PROVIDE TRANSITIONS AS REQUIRED AND CONNECT TO UNIT WITH FLEXIBLE CONNECTOR.
- 3 34" X 10" EXHAUST HOOD OPENING. REFER TO KITCHEN DWG. FOR EXACT LOCATION.
- 47" X 10" SUPPLY HOOD OPENING. REFER TO KITCHEN DWG. FOR EXACT LOCATION.
- 5 34" X 14" SUPPLY AIR DUCT UP THRU ROOF AND CONNECT TO MAKE UP AIR UNIT WITH FLEXIBLE CONNECTOR. PROVIDE TRANSITIONS AS REQUIRED. CONNECT THE OTHER SIDE TO HOOD SUPPLY OPENING.
- 6 34" X 10" EXHAUST DUCT UP AND WELDED TO CURB AND 34" X 10" EXHAUST DUCT UP AND WELDED TO CURB AND 34" X 10" EXHAUST DUCT DOWN AND WELDED TO KITCHEN HOOD EXHAUST OPENING.
- 7 EXHAUST DUCT FROM KITCHEN HOOD SHALL BE PROTECTED WITH 1-HOUR FIRE RATED SUPER FIRE TEMP MINERAL AND FIBER BOARD BY PABCO (REFER TO DETAIL 3, MO.4).
 - ALL EXHAUST DUCT FROM KITCHEN HOOD UP TO CEILING SHALL BE CONSTRUCTED OF STAINLESS STEEL OF AT LEAST 0.044 INCH IN THICKNESS AND ALL EXHAUST DUCT ABOVE CEILING SHALL BE OF GALVANIZED STEEL OF AT LEAST 0.055 INCH THICK. JOINTS AND SEAMS SHALL BE MADE WITH A CONTINUOUS LIQUID-TIGHT WELD.

ROOM NAMES

B01	FAST SERVICE ROOM
B02	enack bar/cooking area
B03	REFRIGERATOR
B04	FREEZER
B05	DRY FOOD STORAGE
B06	CUSTODIAN STORAGE
B07	FOOD PREPARATION AREA
B08	DIRECTOR'S OFFICE
B09	LOCKER AREA
B10	TOILET





(A)

scale 1/8 = 1'0"

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Murrieta Valley Unified School District S CN **Andre** CONSULTANT MATHAUDHU ENGINEERING, INC. CONSULTING MECHANICAL ENGINEERS 3903 BROCKTON AVE., SUITE 5, RIVERSIDE, CA 92501 (909) 686-1776 FAX (909) 686-5081 APPROVED APPROVED APPROVED DENTIFICATION STA DIV. OF THE STATE ARC OFFICE OF REGULATION S NO DATE BY REMARKS BUILDING 'B' MECHANICAL KITCHEN FLOOR PLAN DRAWN CC/STS CHECKED SS M DATE JAN: 94 SCALE AS HOTED M2.B JOB NO. 92 6400

{/	ANDATORY MEASURES	CERTIFICATE OF COMPLIAN
UIF	PMENT AND SYSTEMS EFFICIENCY:	PROJECT NAME THOMPSON MIDDLE SCHOOL
	ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS	PROJECT ADDRESS MURIETTA, CALIFORNIA
	CERTIFIED TO THE COMMISSION, AS SPECIFIED IN THOSE REGULATIONS, THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE. INCLUDED	PRINCIPAL DESIGNER - MECHANICAL
	ARE ROOM AIR CONDITIONERS, CENTRAL AIR CONDITIONING HEAT PUMPS (REGARDLESS OF CAPACITY, EXCEPT THAT REQUIREMENTS FOR CENTRAL AIR CONDITIONING HEAT PUMPS	SUKHDEV S. MATHAUDHU
	WITH COOLING CAPACITY OF 135,000 BTU/HR OR MORE APPLY TO HEATING PERFORMANCE BUT NOT COOLING PERFORMANCE), OTHER CENTRAL AIR CONDITIONERS WITH A COOLING CAPACITY LESS THAN 135,000 BTU/HR, FAN TYPE CENTRAL FURNACES WITH INPUT RATE	BUN SO
	LESS THAN 400,000 BTU/HR, BOILERS WALL FURNACES, FLOOR FURNACES, ROOM HEATERS UNIT HEATERS, AND DUCT FURNACES SHALL HAVE BEEN CERTIFIED TO THE CALIFORNIA	CENERAL INFORMATION
	ENERGY COMMISSION BY ITS MANUFACTURER TO COMPLY WITH THE APPLIANCE EFFICIENCY STANDARDS.	03/13/1997 BUILDING 'C'
	THE FOLLOWING SPACE CONDITIONING EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE	BUILDING TYPE X NONRESIDENTIAL
	EFFICIENCY REQUIREMENTS LISTED IN 112 OF THE ENERGY EFFICIENCY STANDARDS: ALL A CONDITIONERS, HEAT PUMPS AND CONDENSING UNITS LESS THAN 135,000 BTU/HR: ALL W	TER
	CHILLERS; ALL GAS-FIRED BOILERS LESS THAN 300,000 BTU/HR; ALL OIL-FIRED BOILERS LESS THAN 225,000 BTU/HR; AND ALL WARM AIR FURNACES AND COMBINATION WARM AIR	X PRESCRIPTIVE
	FURNACES/AIR-CONDITIONING UNITS LESS THAN 225,000 BTU/HR. FAN TYPE CENTRAL FURNACES SHALL NOT HAVE A PILOT LIGHT.	PROOF OF ENVELOPE COMPLIANCE PREVIOUS
	PIPING, EXCEPT THOSE CONVEYING FLUIDS AT TEMPERATURE BETWEEN 60 DEGREE F AND 105 DEGREE F, OR WITHIN HVAC EQUIPMENT, SHALL BE INSULATED IN ACCORDANCE WITH	STATEMENT OF COMPLIANCE
I	STANDARDS #123.	This Certificate of Compliance lists the building features Parts 1 and 6 of the California Code of Regulations.
	AIR HANDLING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED, AND INSULATED AS PROVIDED IN CHAPTER 6 OF THE CALIFORNIA MECHANICAL CODE, 1995 EDIT	
NT	ROLS:	DOCUMENTATION AUTHOR BUN SO
	EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM	The Principal Mechanical Designer hereby certifies that t documents is consistent with the other compliance forms
	DURING OFF-HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS AND WEEKENDS; INCORPORATE AN AUTOMATIC HOLIDAY "SHUT-OFF" FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24	calculations submitted with this permit application. The
	HOURS, THEN RESUMES THE NORMALLY SCHEDULED OPERATION; AND HAS PROGRAM BACK	Please check one:
	AT LEAST 10 HOURS IF POWER IS INTERRUPTED.	I hereby affirm that I am eligible under the provision document as the person responsible for its preparat
	EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN OCCUPANCY SENSOR TO CONTROL THE OPERATING PERIOD OF THE SYSTEM.	I affirm that I am eligible under the exemption to
	EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED TO CONTROL THE OPERATING PERIOD OF THE SYSTEM.	the Business and Professions Code to sign this doc licensed contractor preparing documents for work
	EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAI SETBACK HEATING THERMOSTAT SETPOINT.	N A I affirm that I am eligible under the exemption to of the
	EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAI	preparation; and for the following reason:
	SETBACK COOLING THERMOSTAT SETPOINT.	PRINCIPAL MECHANICAL DESIGNER - NAME SIGNATURE SUKHDEV S. MATHAUDHU
	EACH SPACE CONDITIONING SYSTEM SERVING MULTIPLE ZONES WITH A COMBINED CONDITIONED FLOOR AREA MORE THAN 25,000 SQUARE FEET SHALL BE PROVIDED WITH	
	ISOLATION ZONES. EACH ZONE SHALL NOT EXCEED 25,000 SQUARE FEET; SHALL BE PROV WITH ISOLATION DEVICES, SUCH AS VALVES OR DAMPERS, THAT ALLOW THE SUPPLY OF HEATING OR COOLING TO BE SETBACK OR SHUT OFF INDEPENDENTLY OF OTHER ISOLATION	Indicate location on plans of Note Block for Mo
	AREAS; AND SHALL BE CONTROLLED BY A TIME CONTROL DEVICE AS DESCRIBED ABOVE.	
	EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE. WHERE USE CONTROL HEATING, THE CONTROL SHALL BE ADJUSTABLE DOWN TO 55° F OR LOWER.	INSTRUCTION TO APPLICANT
	FOR COOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85° F OR HIGHER. WHERE USED TO CONTROL BOTH HEATING AND COOLING, THE CONTROL SHALL BE CAPABLE OF	For detailed instructions on the use of this and all Energy E Manual published by the California Energy Commission.
	PROVIDING A DEAD BAND OF AT LEAST 5" F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF OR REDUCED TO A MINIMUM.	MECH—1: Required on plans for all submittals. Part 2 & 3 MECH—2: Required for all submittals; choose appropriate w
	THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN F. (78° F COOL., 70° F HEAT.)	MECH-3: Required for all submittals, but form does not ha indicated on the form per section 4.3.3.
	THERMOSTATS SHALL HAVE ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.	MECH-4: Required for all submittals unless required outdoor
	HEAT PUMPS SHALL BE INSTALLED WITH CONTROLS TO PREVENT ELECTRIC RESISTANCE	
	SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT ALONE. ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION IS PERMITTED DURING TRANSIENT PERIODS, SUCH AS START-UPS AND FOLLOWING ROOM THERMOSTAT SETPOINT	
	ADVANCE, WHEN CONTROLS ARE PROVIDED WHICH USE PREFERENTIAL RATE CONTROL, INTELLIGENT RECOVERY, STAGING, RAMPING, OR SIMILAR CONTROL MECHANISMS DESIGNED T	
	PRECLUDE THE UNNECESSARY OPERATION OF SUPPLEMENTARY HEATING DURING THE RECOV PERIOD. SUPPLEMENTARY HEATER OPERATION IS ALSO PERMITTED DURING DEFROST.	SCHOOL EQUIPMENT
	LATION:	All mechanical equipment shall be braced or anchored to
	CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.	acting in any direction using the following criteria: <u>Eauioment on Grade</u>
	GRAVITY OF AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AN	
	EXHAUST SYSTEMS.	For flexibly mounted equipment use 4 x the above values $1/3$ x the horizontal force.
	ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FO COMBUSTION AIR OPENINGS.	
	AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE	Where anchorage details are not shown on the drawings t the approval of the MECHANICAL Engineer and the Field E
	BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1991), O ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1989).	State Architect.
	ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1989). OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR	

OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR.

	. 1 	
ERTIFICATE OF COMPLIANCE	Part 1 of 3	MECH-1
CHECT NAME THOMPSON MIDDLE SCHOOL		DATE 03/13/97
MURIETTA, CALIFORNIA		Building Permit 🖸
ncipal designer - mechanical SUKHDEV S. MATHAUDHU	TELEPHONE (909)-686-1776	
cumentation author BUN SO	TELEPHONE (909)-686 -1776	Checked by/Date Enforcement Agency Use
ENERAL INFORMATION		
E OF PLANS 03/13/1997 BUILDING CONDITIONED FLOOR AREA BUILDING 'C' = 16,000	S.F., BUILDING 'D' =	12,900 S.F.
		el/motel guest room
SE OF CONSTRUCTION		RATION
HOD OF MECHANICAL	DRMANCE	
OF OF ENVELOPE COMPLIANCE PREVIOUS ENVELOPE PER	MIT X ENVELOPE CO	MPLIANCE ATTACHED
TATEMENT OF COMPLIANCE		
arts 1 and 6 of the California Code of Regulations. This certificate the documentation preparer hereby certifies that the documentation CUMENTATION AUTHOR BUN SO The Principal Mechanical Designer hereby certifies that the proposed to bocuments is consistent with the other compliance forms and workshee	is accurate and complete. wilding design represented in th	DATE 03/13/97 is set of comstruction
alculations submitted with this permit application. The proposed bulk quirements contained in sections 110 through 115, 120 through 12 lease check one:	ling has been designed to meet	the mechanical
I hereby affirm that I am eligible under the provisions of Division document as the person responsible for its preparation; and that	3 of the Business and Profession I am a Civil Engineer, Mechanic	s Code to sign this al Engineer, or Architect.
I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code to sign this document as the licensed contractor preparing documents for work that i have a	person responsible for its prepar	de by Section 5537.2 of atlon; and that I am a
I affirm that I am eligible under the exemption to Division 3 of t of theCode to sign th preparation; and for the following reason:	he Business and Professions Code is document as the person respo	
ncipal mechanical designer – name signature SUKHDEV S. MATHAUDHU	ис. но. М203	06 03/13/97
ECHANICAL MANDATORY MEASURES		
dicate location on plans of Note Block for Mandatory Med	sures MO-1	
STRUCTION TO APPLICANT		
or detailed instructions on the use of this and all Energy Efficiency Stands anual published by the California Energy Commission. ECH-1: Required on plans for all submittals. Part 2 & 3 may be incorpo ECH-2: Required for all submittals; choose appropriate version dependin ECH-3: Required for all submittals, but form does not have to be comp indicated on the form per section 4.3.3. ECH-4: Required for all submittals unless required outdoor ventilation rat	rated in schedules on plans. g on method of mechanical comp leted if location of mechanical ec	liance. quipment schedule is

ECH-4: Required for all submittals unless required outdoor ventilation rates and airflows are shown on plans per Section 4.3.4.

SCHOOL EQUIPMENT ANCHORAGE

echanical equipment shall be braced or anchored to resist a horizontal force

20% of Operating Weight

30% of Operating Weight exibly mounted equipment use 4 x the above values, and for simultaneous vertical force use

above values are for an importance factor, I = 1.0 and seismic zone, Z = 0.4. e anchorage details are not shown on the drawings the field installation shall be subject to approval of the MECHANICAL Engineer and the Field Engineer of the Office of the

2 3. 6. 7 8. 9.

MECHANICAL

- ALL INSTALLATION TO CONFORM TO CALIFO AND ORDINANCES HAVING JURISDICTION.
- THE MECHANICAL SUB-CONTRACTOR SHALL TO ELIMINATE ANY FIELD AND INSTALLATION
- COORDINATE ALL CEILING DIFFUSERS WITH BY THE ARCHITECT.
- 4. THE MECHANICAL SUB-CONTRACTOR SHALL WITH ELECTRICAL CONTRACTOR PRIOR TO C
- 5. ALL CEILING AND WALL ACCESS DOORS OF FOR INSPECTION AND MAINTENANCE TO FIL EQUIPMENT) TO BE PROVIDED AND INSTAL
- WHERE SPECIFIC DETAILS ARE NOT SHOWN ON THE RECOMMENDATIONS OF THE LATEST 'SMACNA HVAC DUCT CONSTRUCTION STAN
- PROVIDE SEISMIC RESTRAINT SUPPORTS FO BASED ON THE RECOMMENDATIONS OF THE FOR SEISMIC RESTRAINTS OF MECHANICAL
- AFFIX A MAINTENANCE LABEL TO MECHANIC BE PROVIDED FOR THE OWNER'S USE. TRANSVERSE JOINTS ON DUCTWORK SHALL
- USE OF DUCT TAPE NOT PERMITTED.
- 10. DUCT SIZES SHOWN ON DRAWINGS ARE N FOR DUCT WRAP OR DUCT LINING INSULAT DIMENSION TAKEN UP BY DUCT, THE THICH ADDED TO DUCT SIZE. THIS FINAL DIMENSI ANGLES OR CLIPS. (EXAMPLES: 24"x10" N INSULATION OR LINING).
- 11. PROVIDE AND INSTALL TURNING VANES IN IN RECTANGLE BRANCHES.
- 12. ROOM THERMOSTATS SHALL BE MOUNTED
- 13. ALL DUCTWORK SHOWN IS DIAGRAMATIC. V OTHER STRUCTURAL ITEMS: COORDINATE LC CRAFTS INVOLVED.
- 14. ALL DUCT INSULATION AND DUCT LINING AND SMOKE DEVELOPED OF 50 WHEN TEST AND UL 723. ALL FLEXIBLE DUCTS SHALL 25 AND SMOKE DEVELOPED OF 50 AT SAM
- 15. ALL DUCTWORK TAKE-OFFS TO EACH DIFFU UP STREAM OF DIFFUSERS (WHETHER SHOW
- 16. ROUND GALVANIZED STEEL DUCTWORK SHA MINIMUM. 17. HVAC EQUIPMENT SHALL BE LABELED TO
- SECTION 304 OF THE CMC, 1995 EDITION. 18. ALL DUCTWORK WALL PENETRATIONS BY GE

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. GENERAL NOTES		LEGEND
FORNIA MECHANICAL CODE AND ALL OTHER LOCAL CODES	OR	DUCTWORK DUCTWORK WITH LINING
LL COORDINATE WITH ALL OTHER TRADES ION PROBLEMS.		TRANSITION FROM ROUND DUCT TO RECTANGULAR DUCT OR VICE VERSA FLEXIBLE DUCT
H REFLECTED CEILING PLAN OR AS DIRECTED		FLEXIBLE CONNECTION (FC)
LL CONFIRM ELECTRICAL CHARACTERISTICS ORDERING EQUIPMENT AND CONTROLS.		VOLUME DAMPER MOTORIZED DAMPER
OR PANELS (WHERE SHOWN OR REQUIRED FIRE DAMPERS, VALVES, CONTROLS AND ALLED BY GENERAL CONTRACTOR.		SMOKE DETECTOR CONDENSATE DRAIN
WN OR SPECIFIED, INSTALLATION SHALL BE BASED EST ISSUE OF THE 'ASHRAE GUIDE' OR ANDARDS, METAL AND FLEXIBLE'.		WALL LOUVER ROUND DUCT RISER RECTANGULAR SUPPLY AIR RISER
FOR ALL DUCTWORK AND PIPING PER CODE HE LATEST ISSUE OF THE 'SMACNA GUIDELINES L SYSTEMS AND PLUMBING PIPING SYSTEMS'.		RECTANGULAR RETURN / EXHAUST AIR RISER CEILING DIFFUSER TYPE / CFM SHOWN
NICAL EQUIPMENT AND A MANUAL SHALL	ø	CEILING RETURN / EXHAUST TYPE / CFM SHOWN
LL BE SEALED WITH APPROVED MASTIC.		SUPPLY DIFFUSER TYPE RETURN / EXHAUST GRILLE TYPE
NET INSIDE DIMENSIONS, IN ORDER TO ACCOUNT ATION, AND ARRIVE AT AN OVERALL ICKNESS OF THESE INSULATIONS MUST BE ISION EXCLUDES DUCT REINFORCEMENT NET=26"×12" GROSS: IF 1" THICK	$ \begin{array}{c} \overline{YPE} \\ 1 \\ \hline 1 \\ \hline \hline 1 \\ \hline \hline$	TYPE OF EQUIPMENT EQUIPMENT NO. AIR CONDITIONING UNIT EXHAUST FAN
N RIGHT ANGLE ELBOWS AND DEFLECTORS		DETAIL NO. SHEET NO.
O AT 4'-0" ABOVE FINISHED FLOOR. VERIFY CLEARANCES WITH TRUSSES AND LOCATION OF AIR DEVICES WITH OTHER	A M2.0 T	SECTION SHEET NO. ROOM THERMOSTAT WITH LOCK-COVER
SHALL NOT EXCEED FLAME SPREAD OF 25 ESTED IN ACCORDANCE WITH ASTM E-84 L NOT EXCEED DUCTS FLAME SPREAD OF SAME TESTS AS INDICATED ABOVE.	(R) (D) (2)	REMOTE TEMPERATURE SENSOR INDEXED DIAL CONTROLLER REFERENCE NOTES
FFUSER SHALL HAVE VOLUME DAMPERS IOWN ON DRAWINGS OR NOT.)	φ υ/¤	ROUND DUCT UNDERCUT DOOR (BY GENERAL CONTRACTOR)
HALL BE FABRICATED USING 24 GAUGE	D/L	DOOR LOUVER (BY GENERAL CONTRACTOR)
THE SPACE SERVED AS REQUIRED BY N.		TURNING VANE
GENERAL CONTRACTOR.		ACCESS PANEL
	CO ₂	CO ₂ SENSOR

ABBREVIATIONS

AFF ABOVE FINISH FLOOR AH AIR HANDLER ARCH ARCHITECTURE AMP AMPERE BRITISH THERMAL UNIT BTU BFP BACKFLOW PREVENTER CD CEILING DIFFUSER CR CEILING RETURN СН CHILLER COP CONT COEFFICIENT OF PERFOMANCE CONTINUATION CFM CUBIC FEET PER MINUTE DEGREE FAHRENHEIT ۰F DPS DIFFERENTIAL PRESSURE SWITCH DWG DRAWING EACH EA EHA EXHAUST AIR ELEC ELECTRICAL EAT ENTERING AIR TEMPERATURE EWT ENTERING WATER TEMPERATURE EER ENERGY EFFICIENCY RATIO EXHAUST FAN FF EXHAUST GRILLE EG EXTERNAL STATIC PRESSURE ER EXHAUST REGISTER ESP EXIST EXISTING EXPANSION TANK ET FEET FT FULL LOADS AMPS FLA FEET PER MINUTE FPM FLEXIBLE CONNECTOR FC GPM GALLONS PER MINUTE HEATING BOILER HB HP HORSE POWER HOUR HR HERZ (FREQUENCY) ΗZ INCHES IN LEAVING AIR TEMPERATURE LAT LWT LEAVING WATER TEMPERATURE LIQUID LINE LL POUNDS LBS LINEAR LIN LINEAR DIFFUSER LD LINEAR FEET LIQUID REFRIGERATION LR MAX MAXIMUM THOUSAND OF BTU/HR MBH MCA MINIMUM CIRCUIT AMPACITY MECH MECHANICAL MIN MINIMUM NORMALLY CLOSE NC NORMALLY OPEN NO OUTSIDE AIR OA РН PHASE PLUMB PLUMBING PRESSURE DROP PD PSIG POUNDS PER SQUARE INCH GAGE PUMP RETURN AIR RA RETURN GRILLE RG RETURN REGISTER RR RPM **REVOLUTION PER MINUTE** STD STANDARD SOV SHUT-OFF VALVE SP STATIC PRESSURE SUPPLY AIR SA. SUCTION REFRIGERATION SUCTION LINE TEMPERATURE TOTAL PRESSURE TRANSFER GRILLE TYPICAL TYP VOLT WATER GAGE W.G.



	Architects, Morrando Christopher Architects, McOrborated Virginia Dare Tower 10470 Foothill Blvd. Rancho Cucamonga CA 91730 (909)987-0909
Murr Valle Unifie Scho Distri	>y >d ol
Thom by Phase 1 Bldgs C&U	Middle School
CONSULTANT MATHAUDHU ENGIN CONSULTING MECHANIC 3833 JURUPA A RIVERSIDE, CA 92 (909) 686–1776	CAL ENGINEERS VENUE, 2506-221 FAX (909) 686-5061
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LOCATIO	N BUILDI	ING AIRFLO		ING MA	KE	MODEL	SUPPLY	EXT. S.P. INCH W.G.	0.S.A.	ENT. AIR T	EMP. CO	OLING CA	AP. (MBH)	HEATING C	AP. (MBH.				AFUE	THERMAL	CC	MPRESS	OR	COND	FAN MOT		ALIPPI Y	ELECTRIC		COMPUS	STION FAN		POIEP	EXHAUST		e EE			REMARKS	
	DESIGNA	CONFIGUR	ATION SHEE	NO.			AIR CHM	INCH W.G.	CAM	"DF DB "D	FWB SEM	BIBLE	TOTAL	INPUT	OUTPUT	VOLT	PHASE	HERTZ MCA	%	%	£	a and a second second second second second	LRA EA.											A LR			LB6.	LB6.		
ROOF	BLDG		.OW MI.	C TRA	ANE Eff. Y	CD086	2,500	.5	525	80	67 !	316	7 <i>0.</i> 4	1200	91	460	3	60 18	-	81.0	6.25/1	9.7	64	.5/1	2.4	5.4	2	3.2 1	6.1 1/.	20 .	.4 1.6	0	-			10.	0 1,000	2" THR AWAY FI	ROW ILTER COMPLETE WITH ROOF CURB ECONOMIZER.	
ROOF	BLDG		.OW MI.	C TRA	ANE Eff. Y	CD086	2,500	5.	600	80	67 !	کان	7 <i>0.</i> 4	120	9 1	460	3	60 18	-	81.0	6.25/1	9.7	64	.5/1	2.4	5.4	2 :	3.2 10	6.1 1/1	20 .	.4 1.4	0	560			10.	0 1,000	2" THR	ROW COMPLETE WITH ROOF CURB ECONOMIZER.	
ROOF	BLDG	C DOUNF	.OW MI.	C TRA	ANE EFF. Y	rcdøgi	2,000	.5	450	80	67 .	41.8	58,6	9 Ø	ТЗ	460	3	60 16		81.0	5/1	10.0	וד	5/1	1.3	3.2	3/4	3.1 E	5.5 1/	20 .	.4 1.6	0	a .		12.0	-	870	2" THR	ROW ILTER COMPLETE WITH ROOF CURB ECONOMIZER.	
ROOF	BLDG		.OW MI.	C TRA	ANE Eff. 7	rcD061	2,000	,5	450	80	67 .	41,8	58.6	9Ø	тэ	460	3	60 16	-	81.0	5/1	10.0	וד	5/1	1.3	3.2	3/4	3.1 Е	5. 5 1/1	20 .	.4 1.4	ø	GP	un an	12.0	-	870	2" THR	ROW COMPLETE WITH ROOF CURB ECONOMIZER.	
1700F 1700F 1700F 1700F	BLDG		.OW MI.	C TRA	ANE EFF. T	rcdø61	2,000	6.	450	80	67 .	41.8	58.6	9Ø	тз	460	3	60 16	æ	81.0	5/1	10.0	71	5/1	1.3	3.2	3/4	3.1 E	5.5 1/2	20 .	.4 1.4	0	455		12.0		870	2" THR	ROW ILTER COMPLETE WITH ROOF CURB ECONOMIZER.	
ROOF	BLDG		.OW MI.	C TR4 HIGH	ANE EFF. Y	rcdøgi	2,000	.5	450	80	67 .	41.8	58.6	30	тз	460	3	60/16	-	81.0	5/1	10.0	71	5/1	13	3.2	3/4	3.1 E	5.5 1/2	20	4 1.4	0			12.0		073	2" THR	ROW ILTER COMPLETE WITH ROOF CURB ECONOMIZER.	
ROOF	BLDG		.OW MI.		ANE EFF. Y	rcdøgi	2,000	.5	450	80	67	41.8	58.6	30	73	460	3	60 16	da	81.0	B/1	10.0	וד	Б/1	13	3.2	3/4	3.1 E	5.5 1/	20 .	.4 1.4	Ø	-		12.0	-	870	2" THR AWAY FI	ROW ILTER COMPLETE WITH ROOF CURB ECONOMIZER.	
ROOF	BLDG		.ow MI.	C TRA	ANE EFF. T	rcdø61	2,000	.5	450	80	67 .	41.8	58.6	୭୭	ТЗ	460	3	60 16		81.0	БЛ	10.0	וד	Б/1	1.3	3.2	3/4	3.1 E	5.5 1/.	20 .	4 14	Ø	-		12.0		870	2° THRO AWAY FIL	ROW ILTER COMPLETE WITH ROOF CURB ECONOMIZER.	
ROOF	BLDG	C DOWNF	.ow MI.	C TRA	ANE EFF. Y	rcdøgi	2,000	,5	450	80	67 .	41,8	58.6	9Ø	ТЗ	460	3	60 16	62 0	81.0	5/1	10.0	וד	5/1	1.3	3.2	3/4	З.1 б	5.5 1/2	20 .	4 14	Ø	-		12.0	-	870	2" THR AWAY FI	ROW ILTER COMPLETE WITH ROOF CURB ECONOMIZER.	
ROOF	BLDG		ow MI.	C TRA	ANE T	rcdøgi	3,000	.5	450	80	67 1	53.1	85.7	1200	97	460	3	60 22	-	81.0	443.5/2	7.1/6.3	51	.5/1	2.4	5.1	2 4	4.4 10	6.1 1/2	20 .	4 1.4	0 1	/2 1.	6 3.8		10,	9 1,100	2" THR AWAY FI	ROW COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER	
ROOF	BLDG	C DOWNF	.OW MI.		ANE Eff.	TCDI51	5,000	b	780	80	67 16	98.6	145.6	150/100	122/81	460	3	60 32	-	81.0	5/2	10.1	וד	.5/2	30	9.3	3	3.4 23	3.6 1/.	20 .	4 1.4	0 3	./4 3	.2 8.4	· •	10.0	0 1,950	2" THE AWAY FI	ROW COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER ILTER (3/4 HP,3.2 FLA, 460V/+).	
ROOF	BLDG		.OW MI.	- TRA	ANE EFF.	TCDI51	5,000	b	510	80	67 16	3.80	145.6	150/100	122/81	460	3	60 32		81.0	5/2	10.1	וד	.5/2	30	9.3	3 3	3.4 23	3.6 1/.	20 .	4 1.4	0 3	/4 3	.2 8.4	-	10.0	1,950	2" THE AWAY FI	ROW COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER	
ROOF	BLDG	D DOWNF	<i>o</i> w Mi.		ANE EFF.	YCD121	4,000	.6	465	80	67 8	зт.2	116.9	150/100	122/81	460	3	60 30	63 0	81.0	5/2	10.1	וד	1/1	3.0	93	2 3	3.4 2:	3.6 1/2	20 .	4 14	0 3	/4 3	.2 8.4		10.0	1,600	2" THR AWAY FI	ROW COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER	
ROOF	BLDG	D DOWNFI	ow Mi		ANE . Eff.	TCD121	4,000	.6	660	80	67 8	37.2	116.9	150/100	122/81	460	3	60/30	-	81.0	5/2	10.1	וד	1/1	3.0	93	2 3	3.4 23	3.6 1/2	20 .	4 1.4	0 3	/4 3	.2 8.4		10.0	0 1,600		ROW COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER	
ROOF	BLDG	D DOWNE	<i>o</i> w Mi.	> TRA	ANE EFF.	TCD211	7,000	b	1020	80	67 14	17.4	197.5	250/175	2Ø3/142	460	3	60 47	550	81.0	83/2	14.5	90	1/2	3.0	9.3	5 -	7.6 5.	4.9 1/	10 1	8 2.0	Ø 3.	/4 3	2 8.4		9.5	2,600	2" THR AWAY FI	ROW COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER	
ROOF	BLDG	D DOWNFI	ow Mil			TCD211	7,000	b	38 7	80	67 14	17.4	197.B	250/175	203/142	460	3	60 47	-	81.0	83/2	14.5	90	1/2	3.0	9.3	5 -	7.6 5.	4.9 1/	10 1	B 2.4	0 3	14 3.	2 8.4		9.5	2,600	, 2" THR	ROW COMPLETE WITH ROOF CURB, ECONOMIZER AND POWER	

NOTE:

1. ALL PACKAGED A.C. UNIT SHALL BE PROVIDED COMPLETE WITH CONVENTIONAL THERMOSTAT INTERFACE BOARDS.

.....

2. FILTERS SHALL BE FARR 2" THICK CLASS 1 30/30 WHICH ARE RATED ON ASHRAE STD. 52-76 @ 30% EFFICIENCY. CSFM LISTING #3175-0140:015 OR APPROVED EQUAL.

EXHA	UST	FAN	SCHED	ULE
-------------	-----	-----	-------	-----

				EXH	HAUS	Γ FAN S	CHE	EDU							
ITEM	BUILDING		FAN					T.P.				MOTOR			WEIGHT (LBS.)
11551	DESIGNATIO	TYPE	MAKE	MODEL	LOCATION	AREA SERVED	CFM	IN. WG.	DRIVE	WATTS	-	VOLTS	PHASE	CONTROL	
F	BLDG C	INLINE FAN	LOREN	GEMINI GN-640	CEILING PLENUM	GIRL'S RESTROOM CIG	370	5	DIRECT	351		115	l l	EM6	50
EF 2						BOY'S RESTROOM					53				50
F 3/c		CABINET CEILING	\$	GEMINI GC-220	CEILING	WOMEN'S RESTROOM	65	2		41	a			LIGHT SWITCH	20
						MEN'S RESTROOM					6 2				
Ð	BLDG D					TOILET DØG	٦Ø	2			88				
E						TOILET DØT					æy				
F						TOILET D12					-				
Ŧ,		INLINE FAN		GEMINI GN-720	CEILING	GIRL'S RESTROOM	560	5		323	چه			EMG	50
F 5		CABINET CEILING	\$	GEMINI GC-340	CEILING FLUSH	Women's restroom Dis	210	2		135				LIGHT SWITCH	35
EF ED						MEN'S RESTROOM	din na sa								
Ŧ,		INLINE FAN		GEMINI GN-720	CEILING	BOY'S RESTROOM	560	5		323	œ			EMS	50
EF)		CABINET CEILING	i j	GEMINI GC-320	CEILING	CUSTODIAN D21	150	2		דד	æ			LIGHT SWITCH	25

	INSULATI	ON S	CHEI	DULE			
ITEM	TYPE	MIN. THICKNESS	DENSITY	MIN. INSTALLED CONDUCTANCE	MIN. INSTALLED THERMAL RESISTANCE	MAX. VAPOR BARRIER RATING	CCR T-24 PART 6 COMPLIANCE
DUCT ON ROOF OR EXTERIOR OF BUILDING	FIBER GLASS DUCT	1-1/2"	2.0 PCF	.16	63	BPERM	SECTION 124
DUCT WITHIN CEILING	FIBER GLASS DUCT WRAP (FOIL FACED)	le.	.75 PCF	4	25	SPERM	SECTION 124
SPACES, MECHANICAL ROOMS	FIBER GLASS DUCT LINER (SEE PLANS)	1.	15 PCF	25	4.0	SPERM	SECTION 124

	DESK	GN C	ONDIT	IONS								
PERIOD	OUTDOO	r temp.	INDOOR TEMP.									
	"F DB	1FWB	°F DB	"FWB	% RH							
SUMMER	1@2	72	าย	· •	50							
WINTER	30	-	Ъ	-	и не							

EQUIPMENT SCHEDULE

THE EXHAUST FANS SHALL BE CENTRIFUGAL, UP-BLAST, BELT DRIVEN VENT SET BLOWER WITH BACKWARD INCLINED WHEEL, THE EXHAUST FAN SHALL MEET ALL THE FOLLOWINGS CHARACTERISTICS:

- AIR-QUANTITY = 120 CFM. TOTAL PRESSURE = 1/2 IN W.G. MOTOR HP = 1/4 HP. ELECTRICAL POWER = 1151/14.

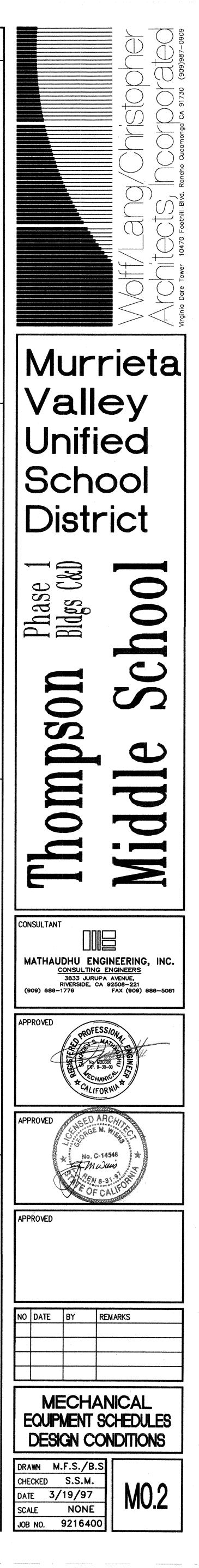
CONTROL

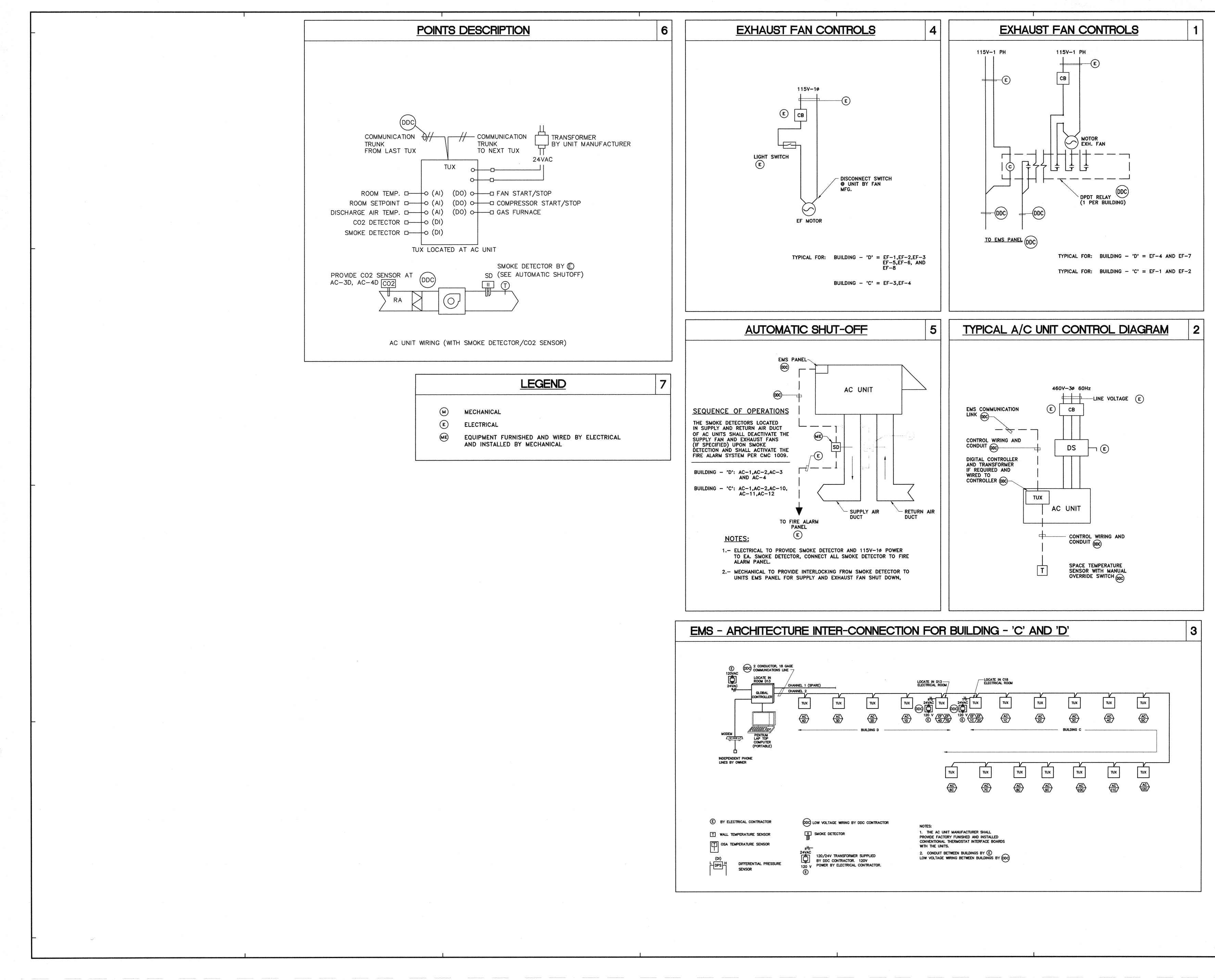
- THE EXHAUST FANS SHALL BE LOREN COOK MODEL 100CPV, COMPLETE WITH WEATHER COVER, INLET AND OUTLET COMPANION FLANGES, AND EISENHEISS COATING IN THE AIR STREAM AND DRAIN. UNIT WEIGHT I20 LBS. EA.
 - ON-OFF SWITCH · FUME HOOD BY (E) WITH INDICATING LIGHT AND ENGRAVED LABEL 'HOOD EXHAUST FAN'.

AUTOMATIC SHUTOFF CONTROL (SECTION 608, CMC)

- A. EACH AIR-MOVING SYSTEM SUPPLYING AIR IN EXCESS OF 2000 CFM SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF ACTIVATED BY SMOKE DETECTORS.
- B. SMOKE DETECTORS SHALL BE INSTALLED IN THE MAIN SUPPLY AIR DUCT. ACTIVATION OF ANY DETECTOR SHALL CAUSE THE AIR MOVING EQUIPMENT TO AUTOMATICALLY SHUT DOWN AND SHALL ACTIVATE THE FIRE ALARM SYSTEM.

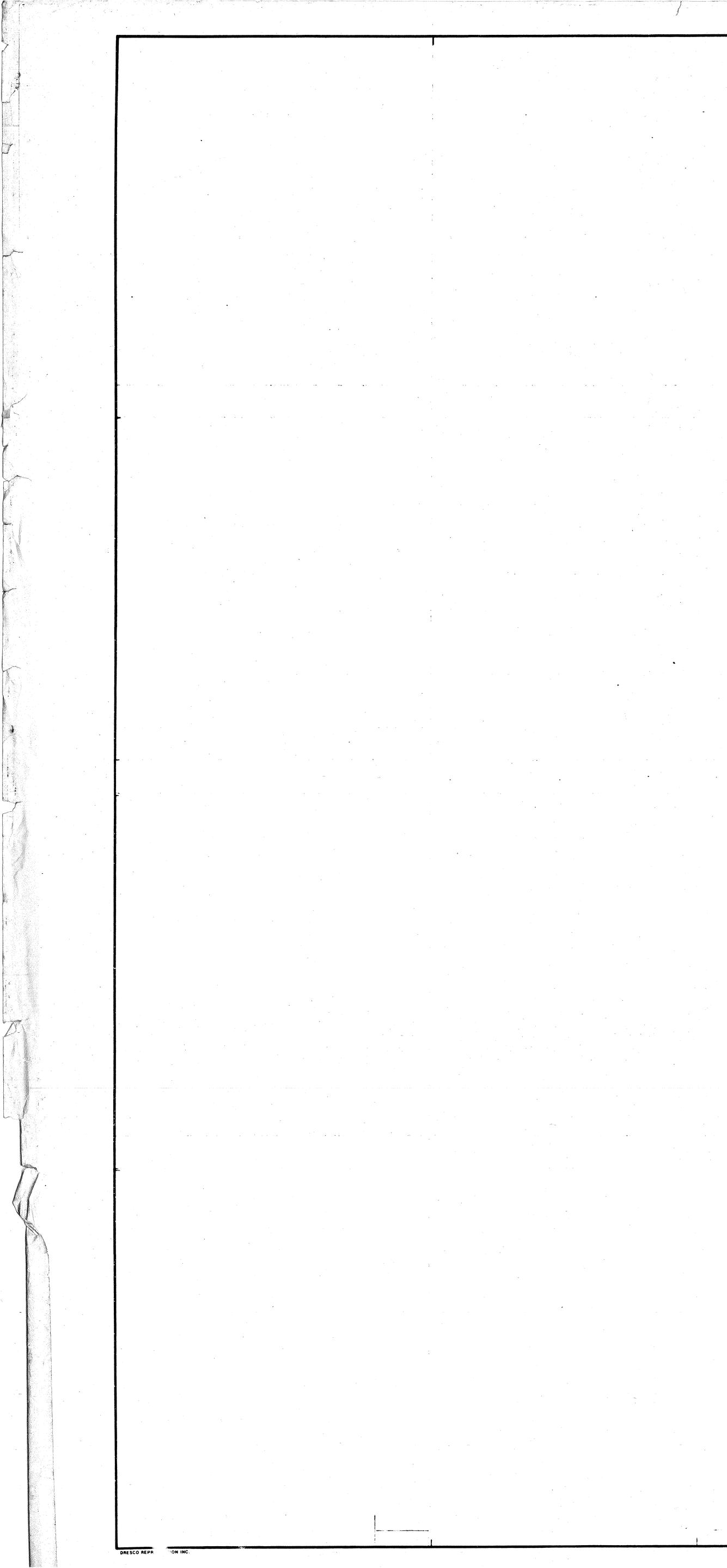
ITEM	DESCRIPTION	NECK SIZE (IN.)	PANEL SIZE (IN.)	CFM RANGE	ACCES	SORIES	CEI TY	LING PE	MO	DEL		REMA	RKS	
	MODULAR SUPPLY AIR DIFFUSER	6 X 6	24 × 24	0 - 125	OPPOSED BL	ADE DAMPER OK ADAPTER	T-B	AR	METAL	AIRE 3 3000	COORD	INATE PA	NEL 6IZE	U/ ARCH JING
В		8 × 8		126 - 220	1			1		1				
(c)		10 x 10		221 - 350										
		12 × 12		351 - 500										
E		14 × 14		501 - 650									<u></u>	
F		16 x 16		651 - 885										
(G)		18 x 18		886 - 1120										
$\langle H \rangle$		2Ø × 2Ø		1390 - 1700										******
$\overline{()}$		6 × 6	-	Ø - 125			HARD						*************************	
		8×8	-	126 - 220										
ĸ		10 x 10	-	221 - 350						~				Page San Bardin Bard, Kardin Baldan San Bardan San Bardan San Bardan San Bardan San Bardan San Bardan San Barda
		12 × 12		351 - 500			<u></u>						5	*******
$\langle M \rangle$		14 × 14	-	501 - 650	· · ·									fatette medde om græneretenere
		16 × 16		651 - 885										
\bigcirc		18 x 18	*	886 - 1120										
$\langle \mathbf{P} \rangle$		18 x 18	-	1200 - 1400			DUCT							
(a)		20 × 20	-	1401 - 1700			Ť-8	AR	1			*********		
$\overline{()}$	PERFORATED RETURN AIR CEILING REGISTER	6×6	24 x 24	0 - 125	OPPOSED BL	ADE DAMPER	Т-В	AD	METALA		COORDINA	TE PANEL 9	IZE W/ ARCH	. REFLECT
(2)	AIR CEILING REGISTER	8×8	,	126 - 220	& ROUND NEC	X ADAPTER	1 - 6.4		SERIES	1000R	CEILING	ORAWINGS.	DUCT	
<u> </u>		9×9		221 - 280										
$\overline{4}$		10 × 10		281 - 345			*****							Participant de la companya de
	· · · ·	12 × 12		346 - 500										· ·
6		15 x 15		501 - 780										
$\overline{(7)}$	· · · · · ·	18 x 18		781 - 1350										-
8		22 × 22		1351 - 1680	-									-
<u> </u>		8 × 8	-	126 - 220	<u> </u>		HAF	9				<u>I</u>		
(10)		9×9	-	221 - 280				-						
		10 × 10	-	281 - 345						<u> </u>				
(12)		12 × 12	-	346 - 500						<u> </u>				
(13)		15 x 15		501 - 780			649747-8-844-4 <u>4</u> -44-4					in the second		
		18 × 18		781 - 1350										
(15)	EXHAUST REGISTER	8 × 8	-	0 - 250			HAF		METAL A RHD	AIRE				
<u>(</u>	EXHAUST REGISTER	10 × 10	~	251 - 360			HAR		METAL4 RHD	AIRE		an 13-14019- talan kata kata kata kata kata kata kata ka		-
10-10-10-10-10-10-10-10-10-10-10-10-10-1														
	8		1	1	1									

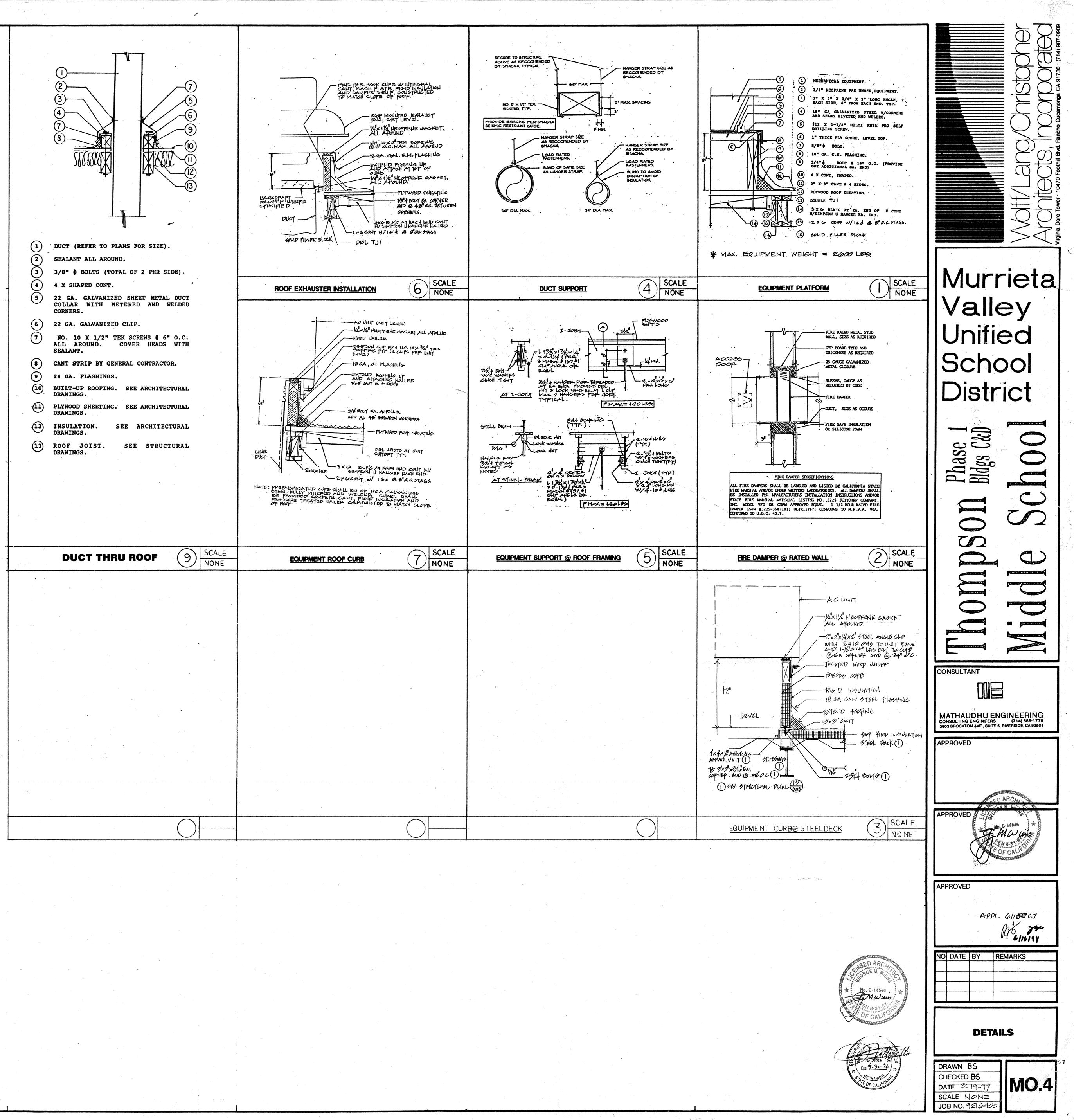


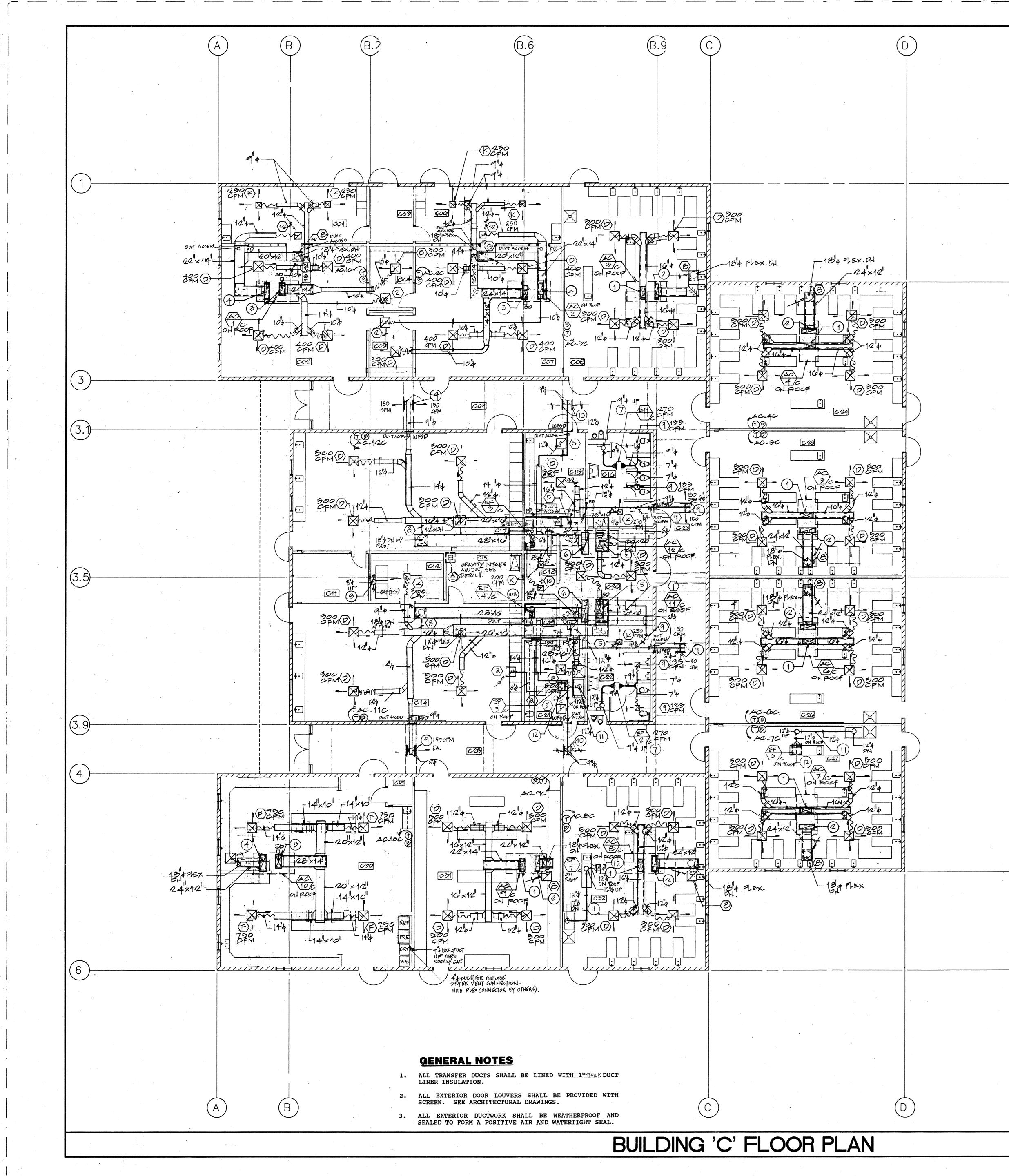


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Murrieta Valley Unified School District Phase 1 Bldgs C&D \bigcirc S CONSULTANT MATHAUDHU ENGINEERING, INC. CONSULTING MECHANICAL ENGINEERS 3833 JURUPA AVENUE, RIVERSIDE, CA 92506-221 FAX (909) 686-5061 (909) 686-1776 APPROVED APPROVED O ARC GEM. W. No. C-14546 Mwuns AREN 8-31.9 APPROVED NO DATE BY REMARKS MECHANICAL CONTROL DIAGRAM and WIRING DIAGRAM DRAWN M.F.S./J.O. CHECKED S.S.M. N100 DATE 3/19/97 NONE SCALE JOB NO. 9216400







ROOM NAMES

CØI	wood shop
CØ2	INDUSTRIAL TECHNOLOGY LAB
CØ3	STORAGE
CØ4	AUDIO PRODUCTION ROOM
CØ5	VIDEO PRODUCTION ROOM
CØ6	wood shop
CØT	INDUSTRIAL TECHNOLOGY LAB
CØ8	SCIENCE LAB
CØ9	CORRIDOR
C10	ARTS/CRAFT CLASSROOM
211	STORAGE
C12	KILN ROOM
C13	STORAGE
C14	ARTS/CRAFT CLASSROOM
C15	PREP ROOM
216	GIRLS' RESTROOM
217	WOMEN'S TOILET
218	ELECTRICAL ROOM
219	MEN'S TOILET
C2Ø	STAFF WORKROOM
221	SCIENCE PREP ROOM
C22	BOYS' RESTROOM
C23	CORRIDOR
224	SCIENCE LAB
225	SCIENCE LAB
C26	SCIENCE LAB
227	SCIENCE LAB
C28	CORRIDOR
229	CHANGE ROOM
C3Ø	MODERN LIVING CLASSROOM
231	COMPUTER LAB
232	SCIENCE LAB

COMBINATION WALL FIRE SMOKE DAMPER:

DAMPER SHALL BE COMPLETE WITH

ELECTRICAL ACTUATOR MODEL 5800-

MB2(CSFM #7481-3 68:5), 120V-

60WATTS, AND DUCT SMOKE DETECTOR

MODEL DH400ACDC (CSFM #3240-447-120) WITH RESETTABLE BI-METALLIC LINK. DAMPER SHALL BE POTTORFF SERIES

DAMPER SHALL BE INSTALLED PER

MANUFACTURERS INSTALLATION

INSTRUCTIONS AND CSFM #3225-368:008

Exp. 9-30-96

NORTH

1/8"=1'-0"

AND 3230-368:105, UL #R11767.

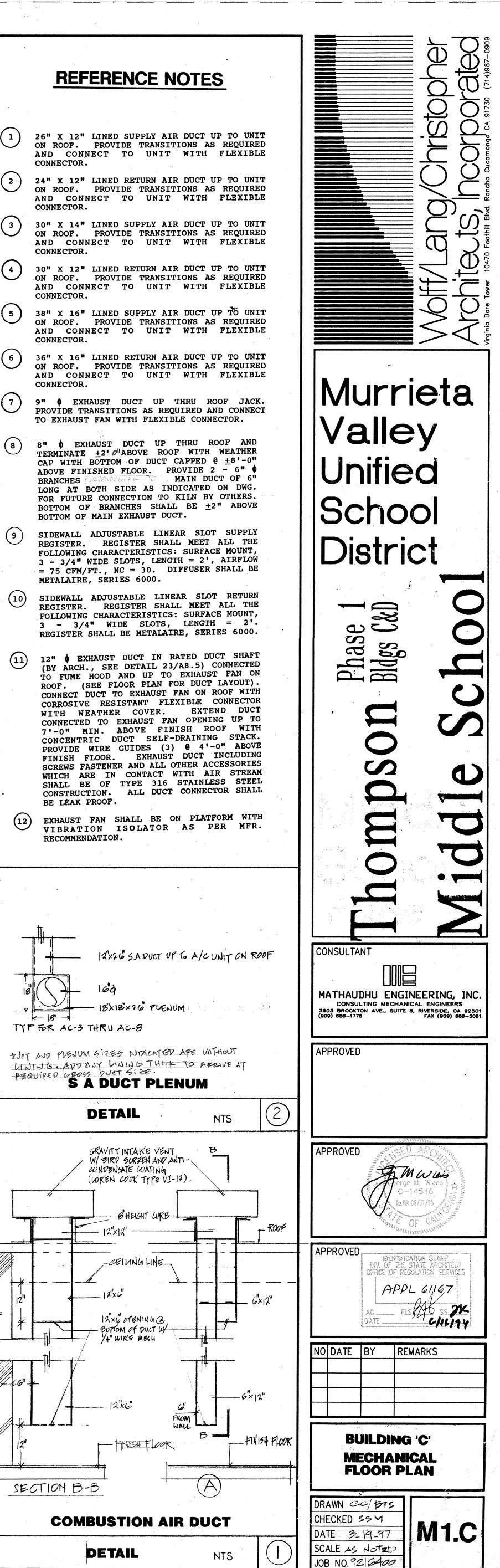
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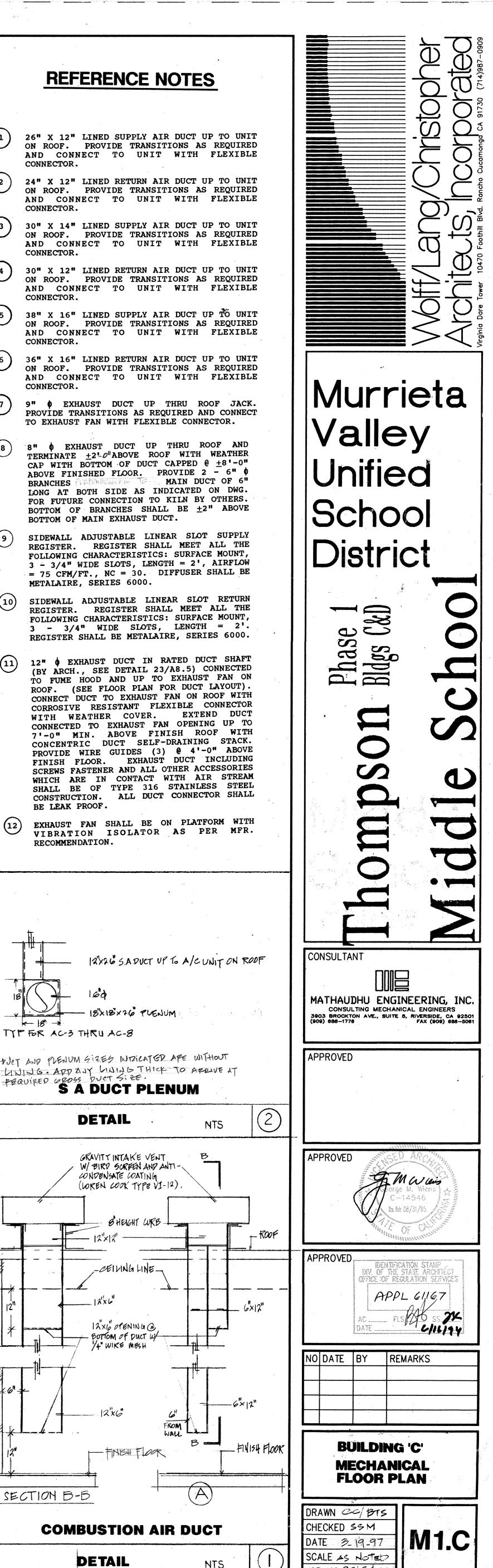
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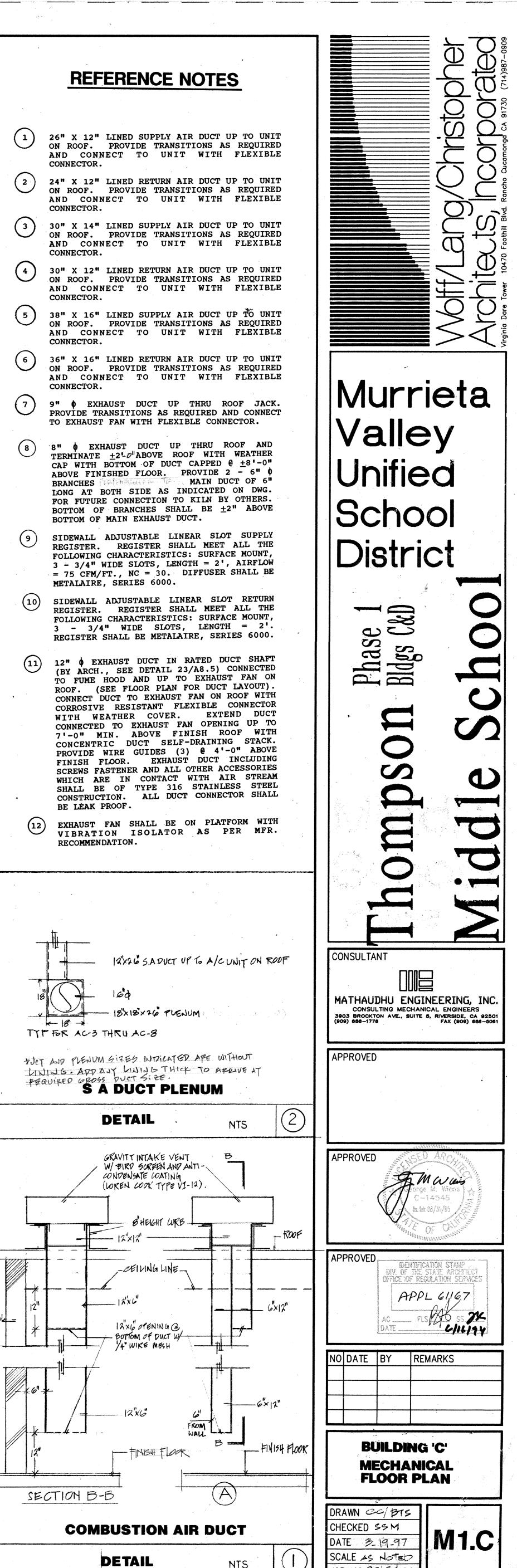
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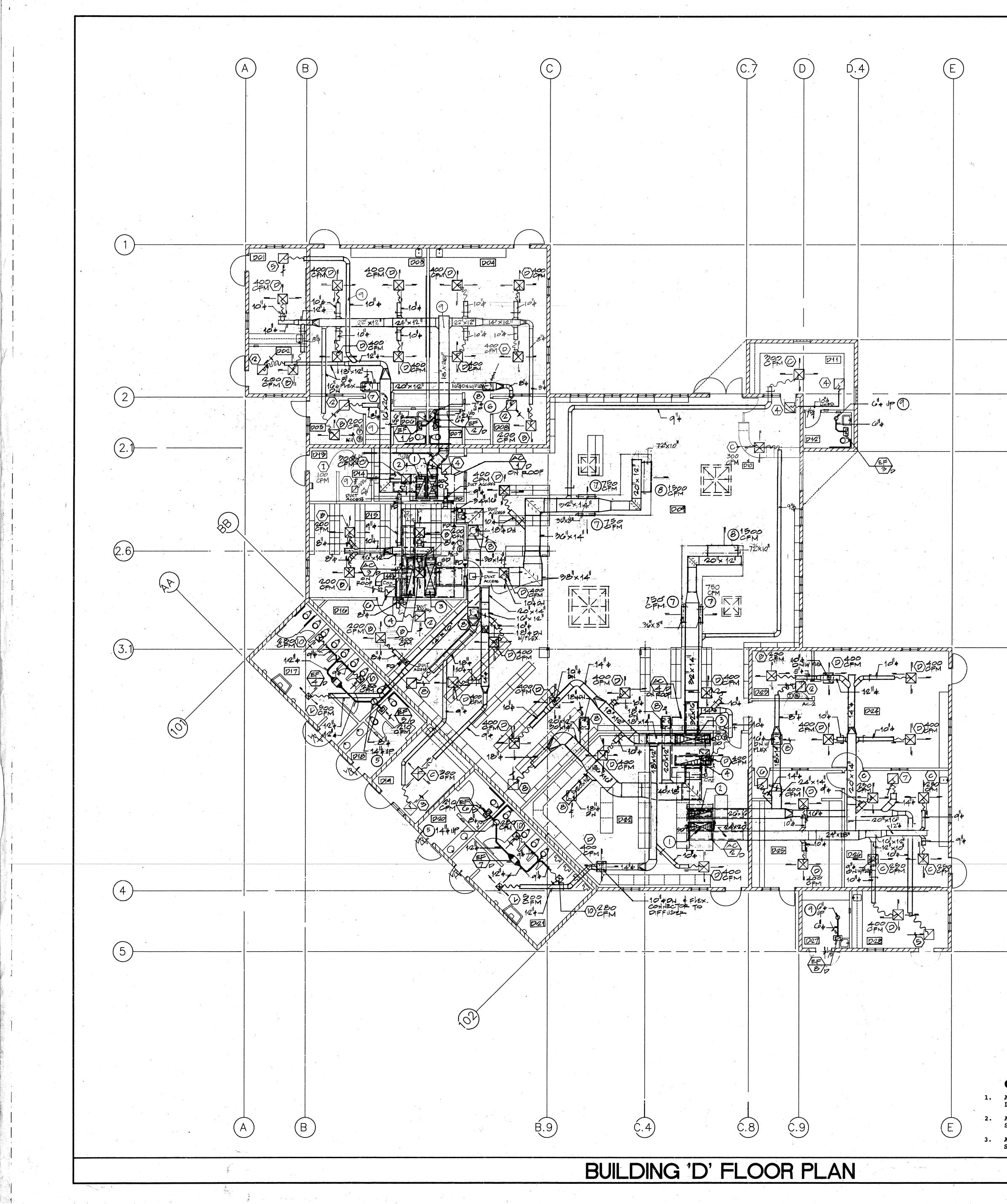
- CONNECTOR.
- CONNECTOR.
- CONNECTOR.
- CONNECTOR.
- CONNECTOR.
- BRANCHES PORTADOLLER BOTTOM OF MAIN EXHAUST DUCT.
- METALAIRE, SERIES 6000.

- RECOMMENDATION.









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ROO	MNAMES
201	STAFF WORKROOM
202	CAMPUS SUPERVISORS' OFFICE
203	SPECIAL EDUCATION CLASSROOM
204	SPECIAL EDUCATION CLASSROOM
D <i>0</i> 5	STAFF WORKROOM
206	TOILET
707	TOILET
208	Staff Workroom
209	LIBRARY
210	CHECK-OUT COUNTER
211	LIBRARIAN'S WORKROOM
212	TOILET
213	ELECTRICAL ROOM
214	PROFESSIONAL LIBRARY
フ 5	AUDIO/VISUAL/TEXTBOOK STORAGE
216	PERIODICAL STORAGE
710	GIRLS' RESTROOM
218	WOMEN'S RESTROOM
019	Staff Workroom
720	MEN'S RESTROOM
221	BOYS' RESTROOM
722	COMPUTER LAB
723	TESTING ROOM
224	RESOURCE SPECIALIST PROGRAM OFFICE
725	AUDIO/COMPUTER ROOM
726	INSTRUCTIONAL CLASSROOM
727	CUSTODIAN
728	Staff Workroom

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(2.2)

REFERENCE NOTES

- 32" X 16" LINED SUPPLY AIR DUCT UP TO UNIT ON ROOF. PROVIDE TRANSITIONS AS REQUIRED AND CONNECT TO UNIT WITH FLEXIBLE (1)CONNECTOR.
- 2 30" X 16" LINED RETURN AIR DUCT UP TO UNIT ON ROOF. PROVIDE TRANSITIONS AS REQUIRED AND CONNECT TO UNIT WITH FLEXIBLE CONNECTOR.
- 50" X 16" LINED SUPPLY AIR DUCT UP TO UNIT ON ROOF. PROVIDE TRANSITIONS AS REQUIRED AND CONNECT TO UNIT WITH FLEXIBLE CONNECTOR.
- 48" X 16" LINED RETURN AIR DUCT UP TO UNIT ON ROOF. PROVIDE TRANSITIONS AS REQUIRED AND CONNECT TO UNIT WITH FLEXIBLE (4)CONNECTOR.
- (5) 14" • EXHAUST DUCT RISER UP THRU ROOF TO ROOF JACK. DUCT BRANCHES CONNECTED TO RISER SHALL NOT BE IN THE SAME PLANE.
- 6 7" EXHAUST DUCT RISER UP THRU ROOF TO ROOF JACK. DUCT BRANCHES CONNECTED TO RISER SHALL NOT BE IN THE SAME PLANE.
 - SIDEWALL ADJUSTABLE LINEAR SLOT DIFFUSERS: DIFFUSERS SHALL MEET ALL THE FOLLOWING CHARACTERISTICS: SURFACE MOUNT, NUMBER AND SIZE OF SLOT = 8, 1" SLOTS, LENGTH = 3' (EA), AIR FLOW = 250 CFM/FT, NC = 35 MAX. DIFFUSER SHALL BE METAL AIRE SERIES 6000 COMPLETE WITH BPI INSULATED BOOT PLENUM.

SIDEWALL ADJUSTABLE LINEAR SLOT DIFFUSERS: DIFFUSERS SHALL MEET ALL THE FOLLOWING CHARACTERISTICS: SURFACE MOUNT, NUMBER AND SIZE OF SLOT = 8, 1" SLOTS, LENGTH = 6^{1} (EA), AIR FLOW = 250 CFM/FT, NC = 35 MAX. DIFFUSER SHALL BE METAL AIRE SERIES 6000 COMPLETE WITH BPI INSULATED BOOT PLENUM.

DUCTS RUN BETWEEN ROOF RAFTERS.

(8)

GENERAL NOTES

1. ALL TRANSFER DUCTS SHALL BE LINED WITH 1 THICK DUCT LINER 2. ALL EXTERIOR DOOR LOUVERS SHALL BE PROVIDED WITH SCREEN. SEE ARCHITECTURAL DRAWINGS. 3. ALL EXTERIOR DUCTWORK SHALL BE WEATHERPROOF AND SEALED TO FORM A POSITIVE AIR AND WATERTIGHT SEAL. NORTH

1/8"=1'-0" A



ず O^{4} Murrieta Valley Unified School District hase 1 dgs (&D B \mathcal{O} CONSULTANT MATHAUDHU ENGINEERING, INC. CONSULTING MECHANICAL ENGINEERS 3903 BROCKTON AVE., SUITE 5. RIVERSIDE, CA 92501 (909) 686-1776 FAX (909) 686-5061 APPROVED APPROVED AMWW APPROVED ICE OF REGULATION SEF 611 476 NO DATE BY REMARKS BUILDING 'D' MECHANICAL FLOOR PLAN DRAWN CC/BTS CHECKED 25M M1.D DATE 2-19-97 SCALE AS NOTED JOB NO. 92 6400