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ARCHITECTURE
ENGINEERING
STUDIES
PLANNING
INVESTIGATION
EXPERT WITNESS

NEW
LIVING
FACILITY

STARC WEST
1705 VIOLA ST
MANDEVILLE, LA

MECHANICAL
PLAN

REV:

SCALE: AS NOTED

JOB#: 2081

DATE: 11-4-10

SHEET 12

M-1

OF 17

LEGEND

- INDICATES NEW CEILING DIFFUSER - CFM AS NOTED - STANDARD 6x12 UNLESS OTHERWISE NOTED. SIZE INDICATES NECK SIZE
- INDICATES NEW RETURN AIR CEILING TRANSFER GRILLE OF SIZE INDICATED. TRANSFER DUCT TO BE FLEX OR RECTANGULAR AS INDICATED.
- EXHAUST FAN
- A/C UNIT
- VAV TERMINAL "JOHNSON CONTROLS" DIGITAL USER INTERFACE
- SMOKE DETECTOR IN RETURN DUCT
- 125° FIRESTAT IN SUPPLY DUCT
- INDICATES NEW SHEET METAL DUCTWORK FOR SUPPLY AIR, SIZES INDICATED ARE SHEET METAL DIMENSIONS. REFER TO SPECIFICATIONS FOR TYPE OF INSULATION.
- INDICATES NEW SHEET METAL DUCTWORK FOR RETURN AIR, SIZES INDICATED ARE SHEET METAL DIMENSIONS. REFER TO SPECIFICATIONS FOR TYPE OF INSULATION.
- ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN R-3.5 PROVIDE MAN. DAMPER AT DIFFUSER CONNECTIONS, SIZE AS INDICATED

ALL DUCTWORK & HVAC COMPONENTS ARE DRAWN DIAGRAMATICALLY

A/C UNIT SCHEDULE						
NO.	TOTAL BTU	ELECTRICAL VOLTAGE	MCA	MOCP	MANUFACTURER (OR EQUAL)	COMMENTS
1	72,000 6 TON	208V, 3Ø	30.6A	35A	CARRIER	
2	72,000 6 TON	208V, 3Ø	30.6A	35A	CARRIER	

AIR HANDLING UNIT SCHEDULE									
NO.	SIZE	CFM	O.A.	HEAT ELEC.	ELECTRICAL VOLTAGE	MCA	MOCP	MANUFACTURER (OR EQUAL)	COMMENTS
1	6 TON	2,400	160	17 KW	208V, 3Ø	59A	60A	CARRIER	ARZ SERIES
2	6 TON	2,400	180	17 KW	208V, 3Ø	59A	60A	CARRIER	AHU WITH ELEC. HEAT

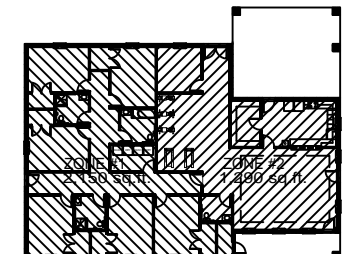
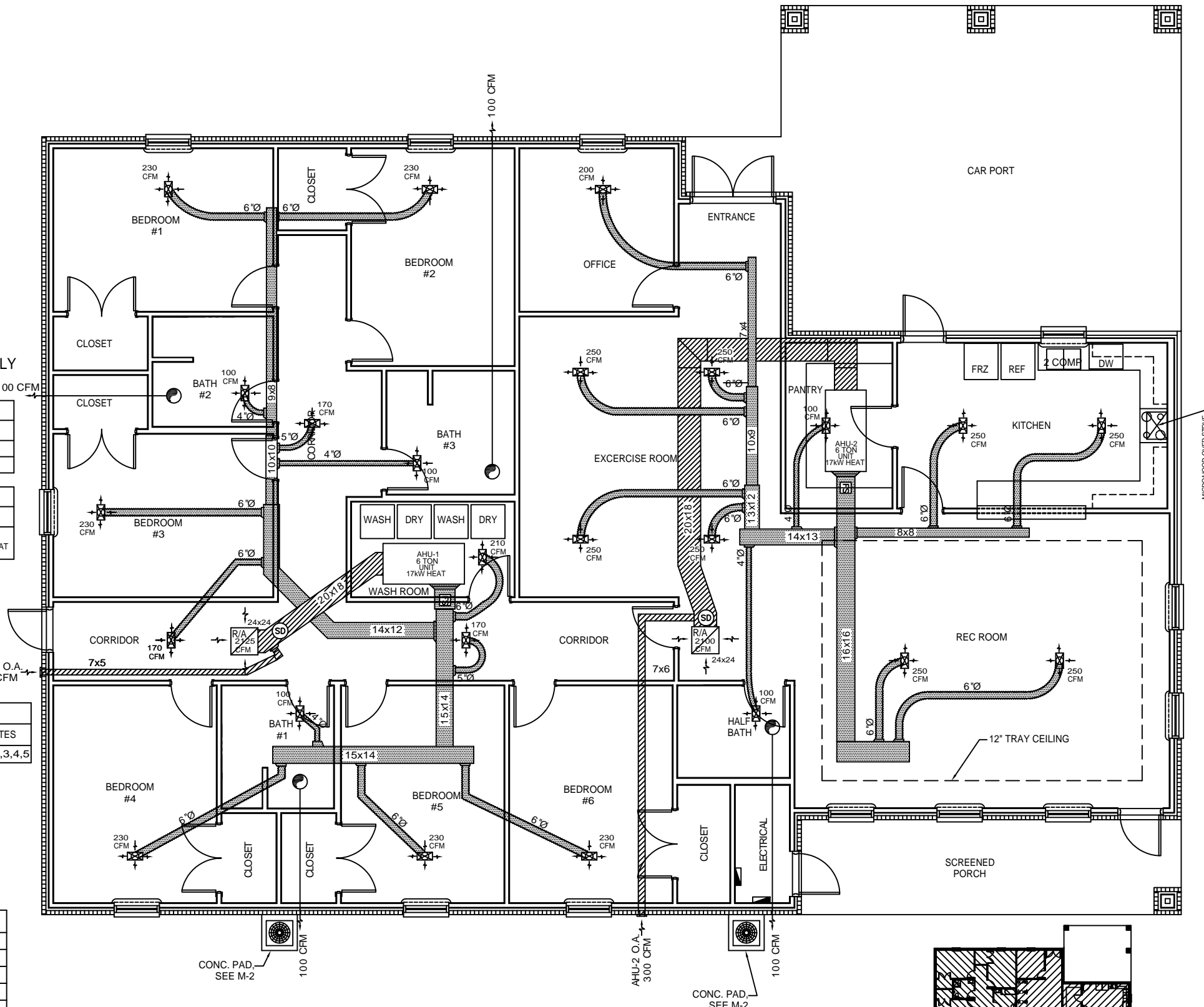
- NOTES:
- ALL AHU UNIT SHALL BE EQUIPPED WITH A PRE-HEATER COIL ON OUTSIDE AIR INTAKE DUCT.
 - PROVIDE STAINLESS STEEL SAFETY PAN FOR ALL AIR HANDLING UNITS INSTALLED.
 - REFRIGERANT PIPING SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - AIR UNIT AND ELECTRIC HEATER SECTION SHALL INCORPORATE SINGLE POINT ELECTRICAL CONNECTION.
 - SYSTEM SHALL HAVE 2 REFRIGERANT CIRCUITS.

EXHAUST FAN SCHEDULE								
FAN DESIG.	TYPE	BALANCE CFM	SELECTION CFM	S.P. IN INCHES	RPM	MOTOR DATA HP VOLTS PH.	COOK MODEL NO.	NOTES
EF-1	CEILING MOUNTED	340	425	0.375	1075	1/3 120 1	GC640	1,2,3,4,5

- FAN SHALL BE SELECTED BASED ON SELECTION CFM AND STATIC PRESSURE LISTED. FAN SHALL BE BALANCED IN FIELD TO BALANCE CFM INDICATED.
- PROVIDE MANUAL STARTER MOUNTED ON WALL - LOCATION AS DIRECTED BY ARCHITECT.
- PROVIDE SOLID STATE SPEED SWITCH MOUNTED ON FAN.
- PROVIDE BACK DRAFT DAMPER AND DISCONNECT SWITCH.
- PROVIDE ANODIZED ALUMINUM BRICK VENT WITH FAN SIZED PER MANUFACTURERS GUIDELINES OR AS INDICATED ON PLANS.

AIR BALANCE SCHEDULE			
	AHU-1	AHU-2	EF-1
OUTSIDE AIR FLOW (CFM)	275	300	
RETURN AIR FLOW (CFM)	2125	2100	
SUPPLY AIR FLOW (CFM)	2400	2400	
EXHAUST AIR FLOW (CFM)			100
BUILDING PRESSURE (CFM)	+275	+300	-100
QUANTITIES	1	1	4
TOTAL PRESSURIZATIONS	+275	+300	-400

REMARKS:
OUTSIDE AIRFLOW FOR AHU 1 AND 2 IS MORE THAN REQUIRED BY CODE. ADDITIONAL AIR IS REQUIRED FOR MAINTAINING POSITIVE PRESSURE INSIDE THE BUILDING ENVELOPE.
RESULTING BUILDING PRESSURIZATION (CFM) = + 175



MECHANICAL ZONE KEY PLAN
N.T.S.