

LCA AA 003432
Architecture, Inc.

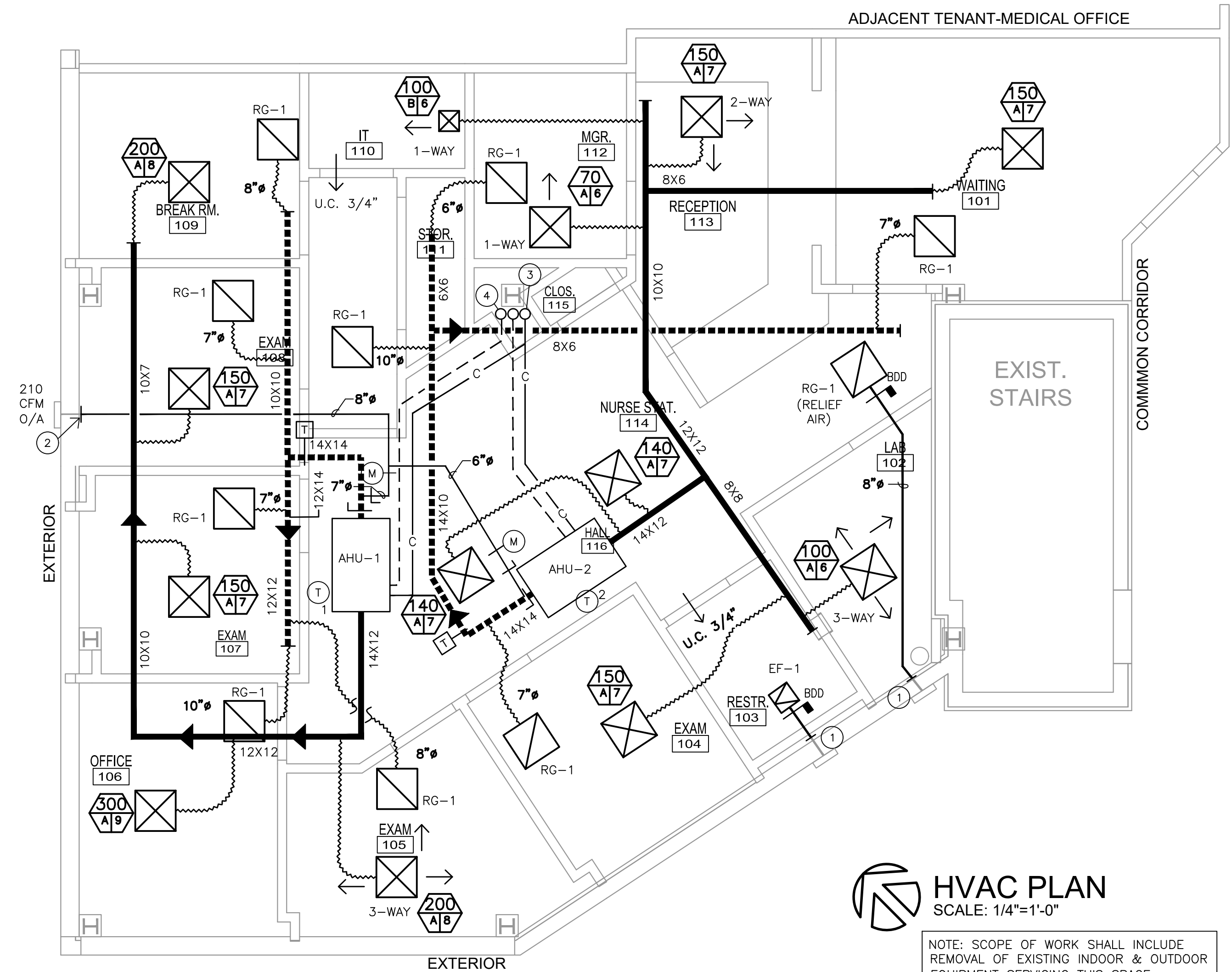
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REVISIONS / DATE

NO.	DESCRIPTION	DATE

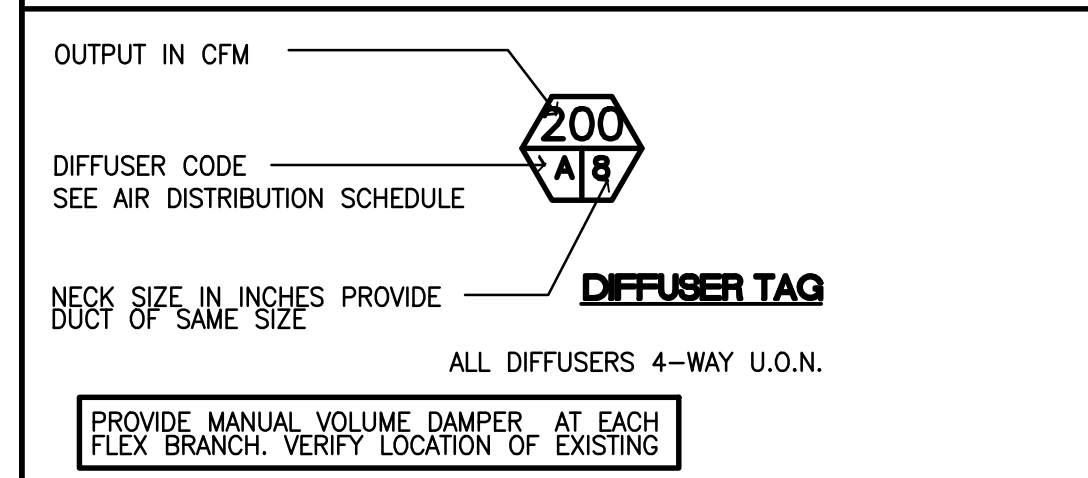
Interior Improvement for
 Prospective Doctors Suite
 9960 Central Park Boulevard, Suite 375
 Boca Raton, FL 33428



HVAC PLAN
SCALE: 1/4"=1'-0"

NOTE: SCOPE OF WORK SHALL INCLUDE REMOVAL OF EXISTING INDOOR & OUTDOOR EQUIPMENT SERVING THIS SPACE

DIFFUSER LEGEND



MECHANICAL GENERAL NOTES:

- THIS WORK SHALL PROVIDE A COMPLETE AND OPERABLE MECHANICAL SYSTEM.
- THIS DRAWING IS DIAGRAMATIC. ALL OFFSETS AND FITTING REQUIREMENTS ARE NOT SHOWN. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL REQUIREMENTS TO PERFORM A COMPLETE AND FUNCTIONING HVAC SYSTEM.
- ALL WORK SHALL BE PERFORMED IN A FIRST CLASS WORKMANLIKE MANNER BY LICENSED CONTRACTORS.
- THE CONTRACTOR SHALL OBTAIN AT HIS EXPENSE ALL NECESSARY FEES PERMITS, AND TESTS.
- ALL WORK SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES. NO CONTRACTOR SHALL BID UNLESS FAMILIAR WITH THESE CODES.
- EQUIPMENT SHALL BEAR A U.L. OR OTHER RECOGNIZED LABEL, NAMEPLATES, WIRING DIAGRAMS, AND ENERGY RATINGS AS APPLICABLE.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND ACCESSORIES SO THAT IT IS READILY ACCESSIBLE FOR SERVICING, TESTING, BALANCING, AND REPLACEMENT.
- CORRECTION OF DEFECTS TO THIS WORK SHALL BE MADE PROMPTLY WITHOUT CHARGE TO THE OWNER. REPAIR AND REPLACEMENT FOR DAMAGE CAUSED BY THIS CONTRACTOR SHALL BE MADE PROMPTLY WITHOUT CHARGE TO THE OWNER.
- THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE AGAINST DEFECTS IN ALL MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM ACCEPTANCE WITH FOUR ADDITIONAL YEARS OF WARRANTY ON COMPRESSORS.
- THE CONTRACTOR SHALL PROVIDE THREE COPIES OF SUBMITTAL DATA, SHOP DRAWINGS, AND AT COMPLETION OF THE PROJECT TWO RED LINED PLANS SHOWING EXACT LOCATION AND SIZES OF ALL PROJECT ITEMS.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE REQUIREMENTS FOR A COMPLETE AND OPERABLE SYSTEM. HE SHALL INCLUDE ALL ITEMS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. HE SHALL INCLUDE ALL SUB-CONTRACTORS AS REQUIRED TO PERFORM FIRST CLASS AND CODE ACCEPTABLE (ELECTRICAL, TESTING AND BALANCING, INSULATION, CEILING) REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- DO NOT USE SERIES OF 45 DEGREE TURNS TO REPLACE A SINGLE 90 DEGREE TURN.
- PRIOR TO ACCEPTANCE BY THE OWNER THE SYSTEMS SHALL BE TESTED AND BALANCED BY A CERTIFIED T&B CONTRACTOR EXPERIENCED WITH THIS SYSTEM. THE CONTRACTOR SHALL CERTIFY THE TESTING AND BALANCING AND PROVIDE BALANCE TEST SHEETS.
- ALL OUTSIDE AIR DUCTWORK SHALL BE SHEETMETAL WITH EXTERIOR BLANKET TYPE R-6 INSULATION.
- AIR BALANCE TO BE PERFORMED BY THE AIR CONDITIONING CONTRACTOR TO THE OWNER'S COMFORT.
- ALL DUCT WORK SHALL BE BUILT AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS AND LOCAL BUILDING CODES.
- PROVIDE ALL CONTROLS, STARTERS, CONTROL WIRING, DISCONNECTS, AND OTHER ELECTRICAL EQUIPMENT AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. MECHANICAL CONTRACTOR IS TO COORDINATE WITH OTHER CONTRACTORS TO ENSURE THAT ALL ITEMS REQUIRED ARE INCLUDED IN BID.
- COORDINATE POWER & CONTROL WIRING WITH ELECTRICIAN.
- FLEXIBLE DUCT, WHERE SHOWN, SHALL BE U.L. CLASS 1.
- ALL GRILLES TO BE TITUS UNLESS OTHERWISE NOTED, SIZES AS SHOWN ON PLANS, ALUMINUM CONSTRUCTION.
- PLANS ARE DIAGRAMMATICALLY DRAWN, DO NOT SCALE FOR INSTALLATION.
- ALL EXHAUST AIR DUCT SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.
- ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- ALL WORK OF THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID ANY INTERFERENCES THAT MAY DELAY PROGRESS OF CONSTRUCTION.
- COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH LIGHTS AND ARCHITECTURAL ELEMENTS.
- SUPPLY AND RETURN DUCTWORK IS FIBERGLASS DUCTBOARD.
- PROVIDE ELBOW TURNING VANES IN ALL DUCTS WHERE TURNS ARE GREATER THAN 45 DEGREES.
- PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST FANS.
- SEE PLUMBING PLANS FOR CONDENSATE SPECIFICATIONS.
- THE HVAC CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, ON SITE, A DETAILED AS-BUILT PLAN SHOWING ACTUAL INSTALLATIONS. THE CONTRACTOR IS TO PROVIDE A NEATLY DRAWN COMPREHENSIVE AS-BUILT SET OF PLANS UPON COMPLETION, WHICH ARE SUITABLE FOR SUBMISSION TO THE BUILDING DEPARTMENT AND TO THE OWNER.

EXHAUST FAN/ROOF VENT DATA

FAN #	EF-1
QUANTITY	SEE PLAN
MANUFACTURER	GREENHECK
MODEL	SP-B70
CFM	50
E.S.P. IN. WG.	0.25
RPM	675
ELECTRIC V/ø/HZ	120/1/60
BACKDRAFT DAMPER	YES
INTEGRAL DISCONNECT METHOD	YES
BIRDSCREEN	-
ROOF CURB	-

TYPICAL NOTES

- THERMOFON NOT ALLOWED, USE GALV. METAL DUCT FOR EXHAUST.
- SUPPLY & INSTALL ALL NEW FILTERS.
- MUST INSTALL TURNING VANES ON ALL ELBOWS & TEES.
- 2 PIECE ELBOWS WILL NOT BE ACCEPTABLE.
- IN ADDITION TO TEST AND BALANCE PROVIDE COMFORT BALANCE AFTER USER OCCUPIES SPACE FOR AT LEAST 2 WEEKS
- EXHAUST FAN OPERATION SHALL BE INTERLOCKED WITH AHU OPERATION.
- TEST AND BALANCE SHALL BE BY INDEPENDENT LICENSED COMPANY
- INSTALL CONDENSING UNITS ON EXIST. EQPT. ROOF RACK. SECURE TO RACK TO MEET CODE WIND LOAD REQUIREMENTS.
- PROVIDE 2" DEEP TRAP WITH CLEANOUTS, RUN 3/4" SCH 40 PVC DRAIN LINES WITH 1" FOAM PLASTIC INSULATION TO EXIST. CONDENSATE RISER.

AIR CONDITIONING CONTROL SEQUENCE

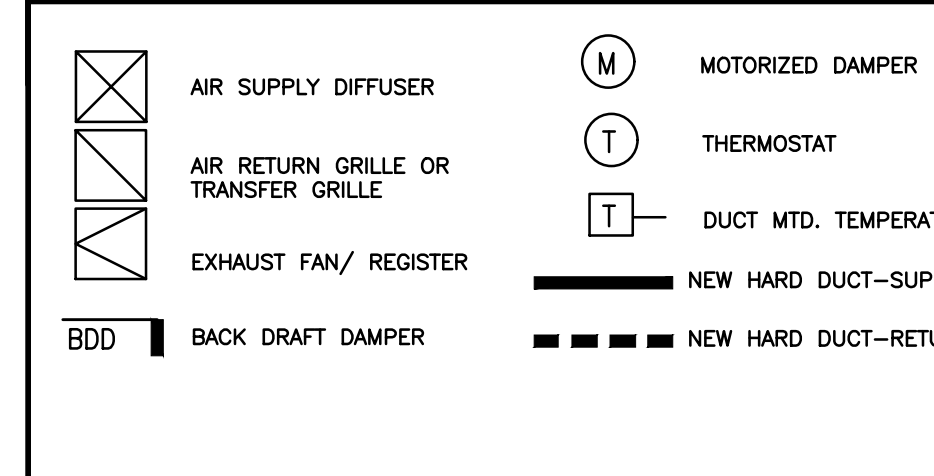
- A/C UNITS SHALL HAVE DIGITAL, PROGRAMMABLE THERMOSTAT LOCATED 4"-6" ABOVE FIN. FL. AS SHOWN ON THE DRAWINGS.THERMOSTAT SHALL HAVE THE FOLLOWING FEATURES:
7 DAY PROGRAMMING (ON-OFF, ETC.)
NIGHT SETBACK
HEATING & COOLING
ADJUSTABLE DEAD BAND
AUTOMATIC HEAT/COOL CHANGEOVER
MANUAL OVERRIDE (TEMPORARY UP TO 2 HOURS)
LOCKING KEYBOARD
DIGITAL TIME & TEMPERATURE DISPLAY
REMOTE TEMPERATURE SENSOR
AIR HANDLING UNIT FAN SHALL RUN CONTINUOUSLY WHENEVER SYSTEM IS PROGRAMMED TO RUN IN OCCUPIED MODE.
- AHU'S OUTDOOR AIR DAMPER SHALL BE INTERLOCKED WITH THERMOSTAT AND SHALL CLOSE WHEN AHU IS OFF OR IN THE UNOCCUPIED MODE.
- PROVIDE ALL NECESSARY CONTROLS TO ACCOMPLISH THE DESIRED CONTROL SEQUENCE, INCLUDING RELAYS, TRANSFORMERS, CIRCUITRY, ETC. COORDINATE WITH THE A/C UNIT MANUFACTURER. PROVIDE LINE VOLTAGE POWER SUPPLY FROM SPARE ON POWER PANEL IF NECESSARY FOR CONTROL SYSTEM OPERATION.
- ALL THERMOSTATS AND DUCT SENSORS SHALL BE FIELD LOCATED WITH THE OWNER'S REPRESENTATIVE. ALL COSTS ASSOCIATED WITH LOCATION OF THESE DEVICES SHALL BE INCLUDED IN THE BASE BID COST. THERE WILL BE NO EXTRA COST ALLOWED REGARDLESS OF FINAL THERMOSTAT LOCATIONS.

AIR DISTRIBUTION SCHEDULE

	MAKE	MODEL	SIZE	MATERIAL	FRAME TYPE	DAMPER	THROW	FINISH
A	TITUS	TDC-AA	24X24-NECK PER PLAN	ALUMINUM	LAY-IN	NO	PER PLAN	WHITE
B	TITUS	TDC-AA	6X6- NECK PER PLAN	ALUMINUM	FLAT FRAME	NO	PER PLAN	WHITE
RG-1	TITUS	3FL	24X24-NECK PER PLAN	ALUMINUM	LAY-IN	NO		WHITE

PROVIDE VOLUME DAMPERS FOR ALL BRANCH LINES
PROVIDE SQUARE TO ROUND ADAPTERS WHERE REQUIRED FOR ROUND DUCT CONNECTION.
PROVIDE FLEXIBLE DUCT SIZED TO MATCH S/A GRILL NECK UNLESS NOTED OTHERWISE.
PROVIDE PLENUM BOX ABOVE RETURN AIR GRILLES.

HVAC LEGEND



PLAN NOTES

- CONNECT TO EXIST. DUCT STUBBED THRU EXTERIOR WALL
- CONNECT TO EXIST. DUCT STUBBED THRU WALL
- CONNECT TO EXIST. CONDENSATE DRAIN RISER
- RUN NEW REFRIGERANT LINES TO ROOF THRU CHASE. INSTALL COND. UNITS ON EXIST. ROOFTOP EQUIPMENT STANDS. SECURE TO MEET CODE WIND LOAD.

LESLAW A. CZACZYK AIA

AR 00015391

PROJ. NO. 16209
DESIGNED BY LAC
DRAWN BY AAA
DATE 10/14/16
SCALE AS SHOWN

HVAC PLANS NOTES