

DAMPER SLEEVE

OF WALL (TYP) -

GENERAL NOTES:

STANDARD 555, CLASS 'A'.

6" MAX. ON BOTH SIDES

U.L. SIZE LIMITATIONS:

VERTICAL MOUNT - SIDE WALL GRILLE

VERTICAL MOUNT (DUCT OPENING SIZES):

HORIZONTAL MOUNT (DUCT OPENING SIZES):

MAXIMUM PANEL: 60" X 54"

MINIMUM PANEL: 4" X 4"

MAXIMUM PANEL: 60" X 54" MAXIMUM ASSEMBLY: 102" X 54"

MINIMUM PANEL: 4" X 4"

1. UNDERWRITERS LABORATORIES LISTED AND 1 1/2" HOUR

2. STANDARD CONSTRUCTION 18 GAUGE GALVANIZED STEEL.

4. NAILOR-HART MODEL 0110 TYPE 'A' 1 1/2 HR DYNAMIC TYPE

3. PROVIDE 1/8" MOUNTING SCREWS 6" ON CENTERS.

FUSIBLE LINK TEMPERATURE: 165° F.

MAXIMUM ASSEMBLY: 120" X 114"

- 2. FUSIBLE LINK. REFER TO SPECIFICATIONS.
- REFER TO SMACNA NFPA 90A AND MANUFACTURER'S RECOMMENDATIONS FOR SLEEVE GAUGES.
- 4. CLEARANCE REQUIREMENTS FOR DAMPER SLEEVES WITHIN A WALL OPENING OTHERWISE STATED IN THE ASSEMBLY (1/4" MIN.) COORDINATE WITH CONTRACTOR THE PICTURE FRAME OPENINGS IN STUD FRAME RATED WALL PRIOR TO INSTALLATION DAMPER AND SLEEVE.
- 5. RETAINING ANGLES, MINIMUM 1 1/2" X 1 1/2" X 14 GAUGE, MUST OVERLAP THE STRUCTURAL OPENING ON ALL FOUR SIDES OF SLEEVE AND DAMPER BY A MINIMUM OF ONE INCH, AND COVER THE CORNERS OF THE OPENINGS. REPEAT THIS ON BOTH SIDES OF RATED WALL
- 6. SECURE RETAINING ANGLES TO THE SLEEVE ON 8' CENTERS WITH ONE OF THE FOLLOWING METHODS: 1/4" BOLTS AND NUTS, OR NO. 10 STEEL SCREWS, OR 1/2" LONG WELDS OR 3/16" STEEL RIVETS.
- 7. CONNECT DUCT TO SLEEVE IN AN APPROVED BREAKAWAY TYPE CONNECTION.
- 8. ACCESS DOOR OR PANEL SHALL BE INSTALLED FOR THE PRESSURE CLASSIFICATIONS AND CONSTRUCTION STANDARDS REQUIRED AND LARGE ENOUGH TO USE TWO HANDS TO PERMIT MAINTENANCE AND RESETTING OF THE DEVICE. PROVIDE TWO ACCESS DOORS IF NECESSARY. THE ACESS DOOR LOCATION SHALL BE FREE OF

OBSTRUCTION AND FULLY ACCESSIBLE.

- 9. AFTER THE SLEEVE HAS BEEN CONNECTED TO THE DUCTWORK WITH THE BREAKAWAY CONNECTIONS AS LISTED ABOVE, AND THE CONSTRUCTION SCREWS FROM THE BREAKAWAY CONNECTIONS, SEAL DUCTWORK AND INSULATE WHERE REQUIRED.
- 10. MULTIPLE DUCTS PENETRATING A SECTION OF RATED WALL SHALL HAVE MINIMUM CLEARANCE OF SIX (6") INCHES BETWEEN DUCTS.
- 11. REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONSTRUCTION AND
- 12. CAULK THE EXTERIOR PERIMETER OF THE FIRE DAMPER RETAINING ANGLES WITH AN APPROVED CAULKING MATERIAL TO PREVENT THE PASSAGE OF THE SMOKE. CAULKING MATERIAL DOES NEED TO BE FIRE
- 13. FIRE DAMPERS SHALL BE RUSKIN MODEL #DIBD2 STYLE B WITH CURTAIN OUTSIDE OF AIR STREAM.

ABBREVIATIONS

- AIR CONDITIONING UNIT
- BUILDING BLDG

- CUBIC FEET PER MINUTE

CONDENSATE

- CEILING CONTINUATION
- COORD COORDINATE
- COPPER
- CONDENSING UNIT
- DIAMETER
- DOWN IN WALL
- DOWN DN
- DRAWING DWG
- FLORIDA BUILDING CODE 2017
- GALY. GALYANIZED GC OR G.C. GENERAL CONTRACTOR
- HYAC HEATING, VENTILATING AND AIR CONDITIONING
- MAXIMUM 1000 BTU/HR
- MANUFACTURER
- MINIMUM NOT TO SCALE
- REQ'D REQUIRED
- ROOM
- INCHES, DIAMETER

WITHOUT

HYAC SYMBOLS INDOOR HIGH WALL UNIT OR CEILING MOUNTED SUPPLY. IF CONDENSING UNIT (CU) OTHER THAN 4-WAY ARROWS INDICATE AIR FLOW PATTERN. DENOTES EQUIPMENT CEILING RETURN IDENTIFICATION GRILLE. DIFFUSER TYPE

DENOTES CFM KEYED NOTE

THERMOSTAT

GENERAL NOTES:

- FOR ABBREVIATIONS, SYMBOLS, LEGEND, AND GENERAL NOTES, REFER
- 2. COORDINATE EQUIPMENT INSTALLATION AND LOCATION WITH MANUFACTURER REQUIREMENTS PRIOR TO BIDDING AND CONSTRUCTION.
- INSTALL FIRE DAMPERS OR FIRE/SMOKE DAMPERS AT ALL DUCT
- PENETRATIONS THROUGH FIRE WALLS OR FIRE/SMOKE WALLS RESPECTIVELY. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION. SMOKE DETECTORS FOR AIR HANDLING AND ROOFTOP UNITS SHALL

PROVIDE AUTOMATIC FAN SHUTDOWN FOR UNIT AND PROVIDE A

SUPERVISORY SIGNAL TO THE BUILDING FIRE ALARM SYSTEM. UPON BUILDING GENERAL ALARM ALL AIR HANDLING UNITS (EXCEPT WITHIN RESIDENTIAL UNITS) SHALL SHUT DOWN.

PROVIDE A MOTORIZED DAMPER AND VOLUME DAMPER AT ALL OUTSIDE

- AIR CONNECTIONS TO AHU UNITS INSIDE MECH ROOMS. CONTRACTOR SHALL PROVIDE FIRE DAMPERS AT ALL PENETRATIONS OF
- FIRE-RATED CEILING MEMBRANE INCLUDING ALL MECHANICAL ROOMS.
- THE PROJECTS MECHANICAL DRAWINGS AND SPECIFICATIONS MAKE NO PROVISION(S) FOR THE DIVISION OF GC/SUNCONTRACTOR WORK SCOPE(S). THE GENERAL CONTRACTOR SHALL ENSURE ALL HIS/HER SUBCONTRACTORS HAVE NECESSARY PROVISIONS FOR THE COMPLETE, FUNCTIONING AND WARRANTED WITHOUT EXCEPTION. CONTRACTOR SHALL INCLUDE SUCH PROVISIONS IN HIS/HER BASE BID.
- 8. GENERAL CONTRACTOR AND HIS/HER SUB CONTRACTOR(S) SHALL CAREFULLY COORDINATE ALL SPRINKLER LINE INSTALLATIONS WITH THE PROJECTS MECHANICAL AND PLUMBING SYSTEMS PRIOR TO INSTALLATIONS. SPRINKLER LINE TO BE DETERMINED TO BE IN CONFLICT WITH THE PROJECTS MECHANICAL DRAWINGS WILL BE REQUIRED TO BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT, WITHOUT EXCEPTION.

MI	MITSUBISHI DUCTLESS HEAT PUMP MINI SPLIT SCHEDULE												
TA	G	LOCATION	MFG.	COOLING CAPACITY (BTUH)	HEAT PUMP HEATING CAPACITY (BTUH)	SEER	M.C.A.	M.O.C.P.	YOLTAGE (Y/Ø/HZ)	MODEL# INDOOR/ OUTDOOR	DIMENSIONS	WEIGHT	NOTES
DMS	S-1		мітеивіені	12,000	14,400	20.5/20.5	12	15	208/1/60	MSZ-GE12NA-8 / MUZ-GE-12-NA	3 7/16" x 9 1/8" x 1 5/8" / 33 1/16" x 34 5/8"	22 LBS /119 LBS	ALL

- PROVIDE ALL CONDENSING UNIT COILS WITH CORROSION RESISTANT COATING.
- PROVIDE WITH DIGITAL WALL MOUNTED THERMOSTAT, COORDINATE LOCATION.
- THIS EQUIPMENT IS AN HEAT PUMP CONFIGURATION. NO ELECTRICAL HEAT REQUIRED.
- 4. PROVIDE WITH CONDENSATE PUMP WHEN APPLICABLE.
- 5. PROVIDE WITH LOW AMBIENT KIT

CEILING EXHAUST

6. PROVIDE SINGLE POINT FEED AT OUTSIDE COMPRESSOR & MOTOR RATED SWITCH AT INDOOR AHU FEED FROM OUTDOOR CONDENSING UNIT ON ROOF.

\triangle		DEVIC	E SC	HED	ULE			
TAG	TYPE	NECK SIZE	MATERIAL	MODULE	FINISH	MANUFACTURER	MODEL	NOTES
A	LAY-IN	SEE PLAN	AL.	24×24	SEE NOTE 11	METALAIRE	5500	1, 2, 3, 4, 4 5
B	I AY-IN	SEE PLAN	ΔΙ	12×12	SEE NOTE II	METAL AIRE	CC5	1234 \$ 6

NOTES:

- I. REFER TO PLANS FOR ALL NECK SIZES
- 2. ALL OUTLET SHALL BE SELECTED AT A MAXIMUM OF NC 25
- 3. THE MANUFACTURER SHALL PROVIDE PUBLISHED PERFORMANCE DATA. DATA SHALL BE TESTED IN ACCORDANCE TO ANSI/ASHRAE STANDARD 70 2006.

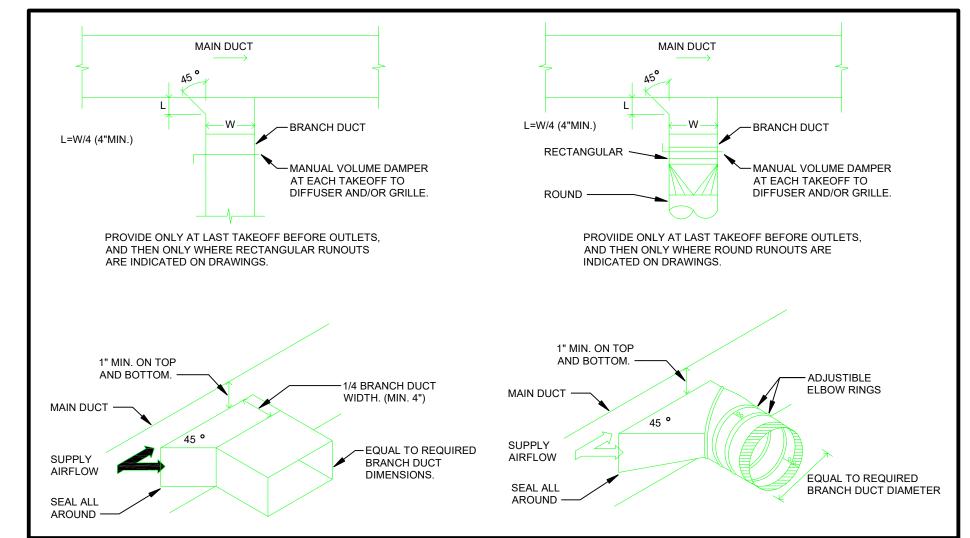
4. CEILING DIFFUSERS AND RETURN/EXHAUST GRILLES MOUNTED IN HARD CEILING ARE TO BE LAY-IN DIFFUSERS INSTALLED USING AN ALUMINUM T-BAR MOUNTING FRAME. CEILING MODULE 24X24 (SEE PLANS). CONTRACTOR TO VERIFY CEILING TYPE BEFORE ORDERING

5. LAY-IN DIFFUSER AND CEILING MOUNTED RETURN/EXHAUST GRILLES SHALL BE FULL FACE WITH SQUARE TO ROUND TRANSITION (SEE PLANS)

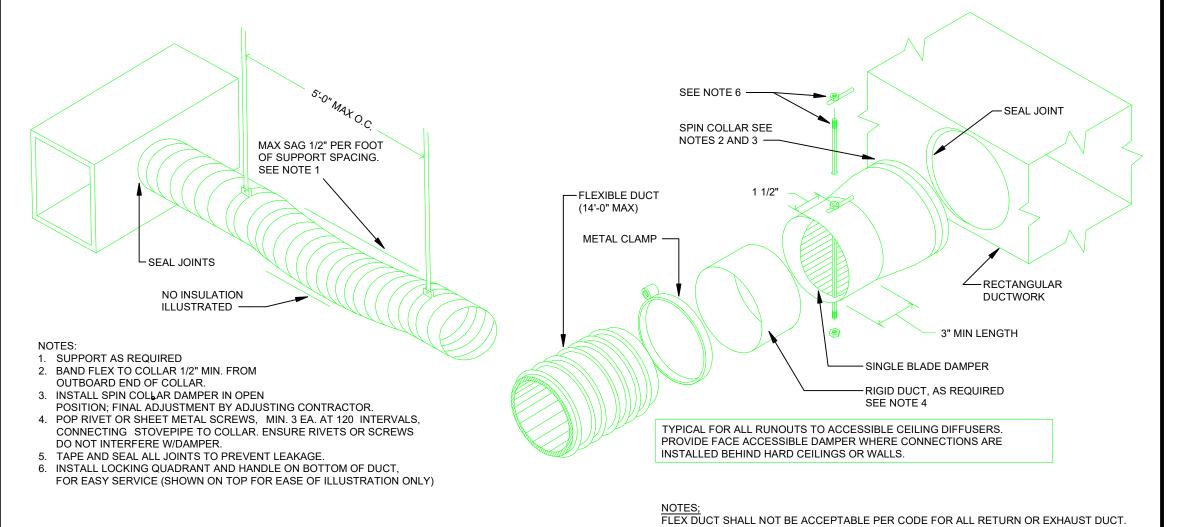
6. LAY-IN DIFFUSER AND CEILING MOUNTED RETURN/EXHAUST GRILLES SHALL BE 24X24 MODULE WITH 12X12 NECK WITH SQUARE TO ROUND TRANSITION (SEE PLANS)

1. ALL SIDEWALL REGISTERS TO INCLUDE AN ALUMINUM OPPOSED BLADE DAMPER TO BE USED AS FINAL BALANCING

OVERALL FIRE - SMOKE DAMPER



DUCT BRANCH TAKE OFF FITTINGS
SCALE: NOT TO SCALE



FLEXIBLE DUCT AND TAP

INDEX OF MECHANICAL DRAWINGS

GENERAL MECHANICAL INFORMATION PARTIAL FIRST FLOOR MECHANICAL PLAN



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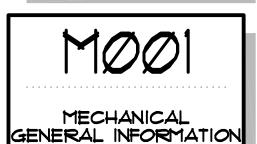
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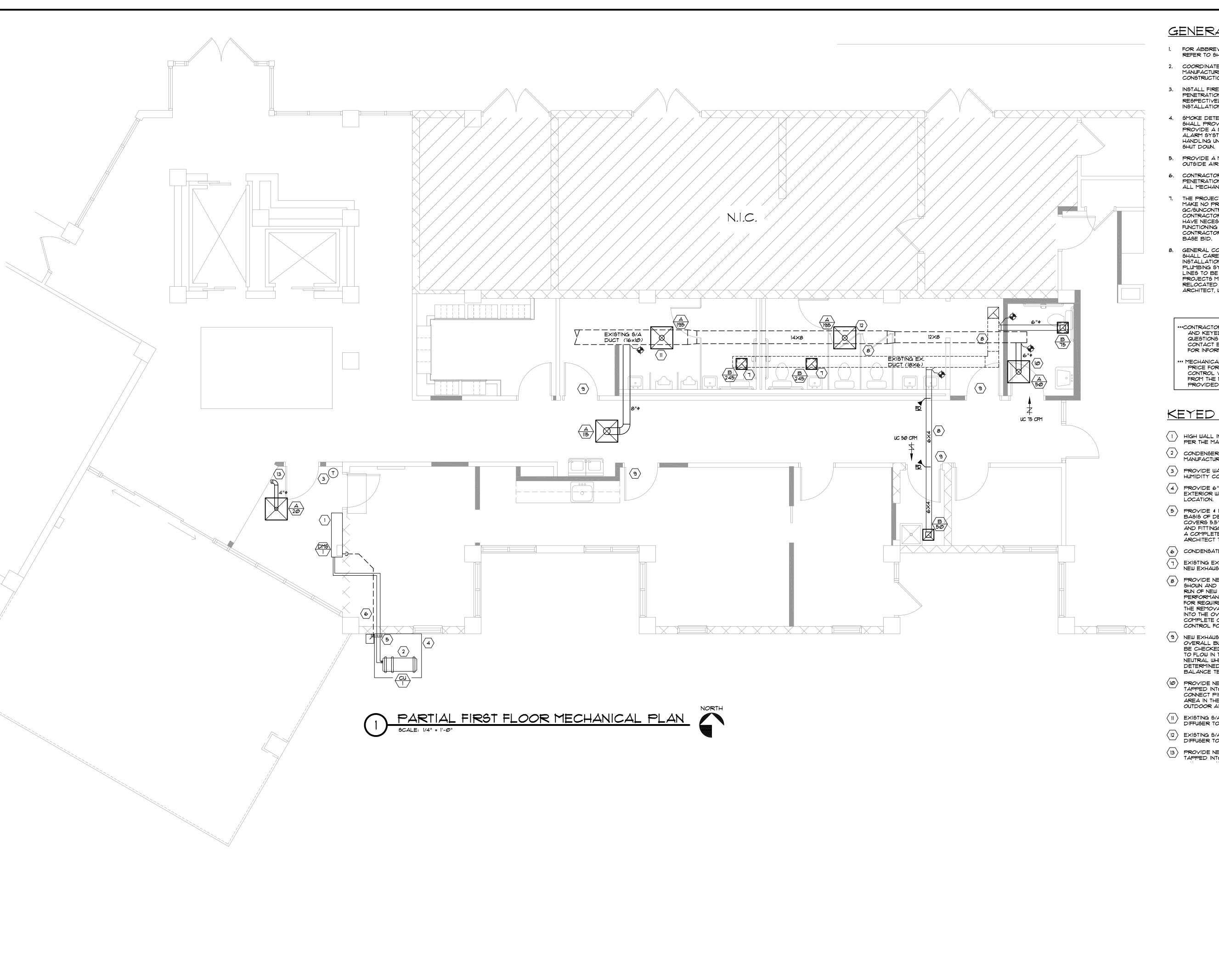
Gregory M. Clements, P.E. State of Florida 67375

ISSUED DATE: ISSUED FOR: 05-15-20 CONSTRUCTION DOCUMENTS

	REVISIONS						
	NO:	DATE:	DESCRIPTION				

PROJECT NO: 19079.00 PROJECT MANAGER: CHECKED BY: DATE: 05-15-20 SCALE: NOT TO SCALE





GENERAL NOTES:

- FOR ABBREVIATIONS, SYMBOLS, LEGEND, AND GENERAL NOTES, REFER TO SHEET MOOI.
- 2. COORDINATE EQUIPMENT INSTALLATION AND LOCATION WITH MANUFACTURER REQUIREMENTS PRIOR TO BIDDING AND CONSTRUCTION.
- 3. INSTALL FIRE DAMPERS OR FIRE/SMOKE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FIRE WALLS OR FIRE/SMOKE WALLS RESPECTIVELY. COORDINATE EXACT LOCATION PRIOR TO
- SMOKE DETECTORS FOR AIR HANDLING AND ROOFTOP UNITS SHALL PROVIDE AUTOMATIC FAN SHUTDOWN FOR UNIT AND PROVIDE A SUPERVISORY SIGNAL TO THE BUILDING FIRE ALARM SYSTEM, UPON BUILDING GENERAL ALARM ALL AIR HANDLING UNITS (EXCEPT WITHIN RESIDENTIAL UNITS) SHALL
- PROVIDE A MOTORIZED DAMPER AND VOLUME DAMPER AT ALL OUTSIDE AIR CONNECTIONS TO AHU UNITS INSIDE MECH ROOMS.
- CONTRACTOR SHALL PROVIDE FIRE DAMPERS AT ALL PENETRATIONS OF FIRE-RATED CEILING MEMBRANE INCLUDING ALL MECHANICAL ROOMS.
- THE PROJECTS MECHANICAL DRAWINGS AND SPECIFICATIONS MAKE NO PROVISION(S) FOR THE DIVISION OF GC/SUNCONTRACTOR WORK SCOPE(S). THE GENERAL CONTRACTOR SHALL ENSURE ALL HIS/HER SUBCONTRACTORS HAVE NECESSARY PROVISIONS FOR THE COMPLETE, FUNCTIONING AND WARRANTED WITHOUT EXCEPTION. CONTRACTOR SHALL INCLUDE SUCH PROVISIONS IN HIS/HER
- GENERAL CONTRACTOR AND HIS/HER SUB-CONTRACTOR(S) SHALL CAREFULLY COORDINATE ALL SPRINKLER LINE INSTALLATIONS WITH THE PROJECTS MECHANICAL AND PLUMBING SYSTEMS PRIOR TO INSTALLATIONS. SPRINKLER LINES TO BE DETERMINED TO BE IN CONFLICT WITH THE PROJECTS MECHANICAL DRAWINGS WILL BE REQUIRED TO BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT, WITHOUT EXCEPTION.

***CONTRACTOR SHALL READ ALL GENERAL NOTES AND KEYED NOTES PRIOR TO BIDDING. IF ANY QUESTIONS OR CLARIFICATIONS ARE REQUIRED, CONTACT ENGINEER OF RECORD WITH REQUEST FOR INFORMATION PRIOR TO BIDDING.

** MECHANICAL CONTRACTOR SHALL PROVIDE A PRICE FOR FULL COUNT OF ALL MOTORIZED CONTROL VALVE AND BALL VALVES. TAKE OFF FROM THE MECHANICAL 200 SERIES DIAGRAM

KEYED NOTES:

- HIGH WALL INDOOR COOLING FAN SYSTEM, MOUNT AS PER THE MANUFACTURERS SPEC'S.
- 2 CONDENSER UNIT AS SCHEDULED. INSTALL AS PER THE MANUFACTURERS SPEC'S.
- 3 PROVIDE WALL MOUNTED PROGRAMMABLE T-STAT WITH HUMIDITY CONTROL INCLUDED MOUNT AT 4'8" AFF.
- PROVIDE 6" CONCRETE PAD MAINTAIN 36" FROM EXTERIOR WALL, TO CONDENSER INSTALLATION
- (5) PROVIDE & INSTALL UV RESISTANT PVC LINESET COVER BASIS OF DESIGN: RECTOR SEAL SLIMDUCT LINESET COVERS 5.5" HEAVY DUTY PROFESSIONAL GRADE DUCT AND FITTINGS. INCLUDE ALL PARTS/PIECES REQ'D FOR A COMPLETE INSTALLATION. COOR'D COLOR WITH
- (6) CONDENSATE DRAIN SHALL BE BY OTHERS.
- EXISTING EXHAUST GRILLES @ 270 CFM. RE-BALANCE NEW EXHAUST GRILLES TO 245 CFM.
- PROVIDE NEW EXHAUST TERMINAL, DUCT AS SIZED & SHOWN AND CENTRAL EXHAUST CONNECTION FOR END RUN OF NEW EXHAUST BRANCH DUCTS, VERIFY PERFORMANCE OF EXISTING EXHAUST SYSTEM & FAN FOR REQUIRED OF EXISTING EXHAUST TERMINAL FROM THE PERMONAL PROPERTY. THE REMOVAL OF RESTROOM SHALL BE FACTORED INTO THE OVERALL COMPONENT EVALUATION OF COMPLETE CENTRAL EXHAUST. INCLUDE MOTOR CONTROL FOR SUITABLE RPM RANGE FOR EXISTING FAN.
- 9 NEW EXHAUST VALUES ARE VERY LOW ADJUSTMENTS TO OVERALL BUILDING VENTILATION. AIR DIRECTION SHALL BE CHECKED FOR PROPER FLOW WHERE ROOMS ARE TO FLOW IN THE NEGATIVE, POSITIVE DIRECTION OR NEUTRAL WHERE APPLICABLE. STUDY TO BE DETERMINED BY A PROFESSIONAL & LICENSED AIR BALANCE TECHNICIAN.
- PROVIDE NEW LAY-IN DIFFUSER WITH 6" \$ 8" RND 9/A
 TAPPED INTO THE EXISTING S/A DUCT SYSTEM.
 CONNECT PIPE DUCT OR EQUIVALENT RECT. DUCT. SAME AREA IN THE PROPOSED SHOULD NOT IMPACT EXISTING OUTDOOR AIR VALUES.
- EXISTING S/A DIFFUSER @ 270 CFM. RE-BALANCE NEW DIFFUSER TO 195 CFM.
- EXISTING S/A DIFFUSER @ 260 CFM. RE-BALANCE NEW DIFFUSER TO 195 CFM.
- PROVIDE NEW LAY-IN DIFFUSER WITH 4" RND S/A TAPPED INTO THE EXISTING S/A "LOBBY" SYSTEM.

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ISSUED DATE: ISSUED FOR: 05-15-20 CONSTRUCTION DOCUMENTS

		REY	ISIONS
	NO:	DATE:	DESCRIPTION

PROJECT NO:	ia@ieio@
DRAWN BY:	TĽJ
PROJECT MANAGER:	R W
CHECKED BY:	GMC
DATE:	<i>0</i> 5-15-20
SCALE:	1/4" = 1'-@"

