

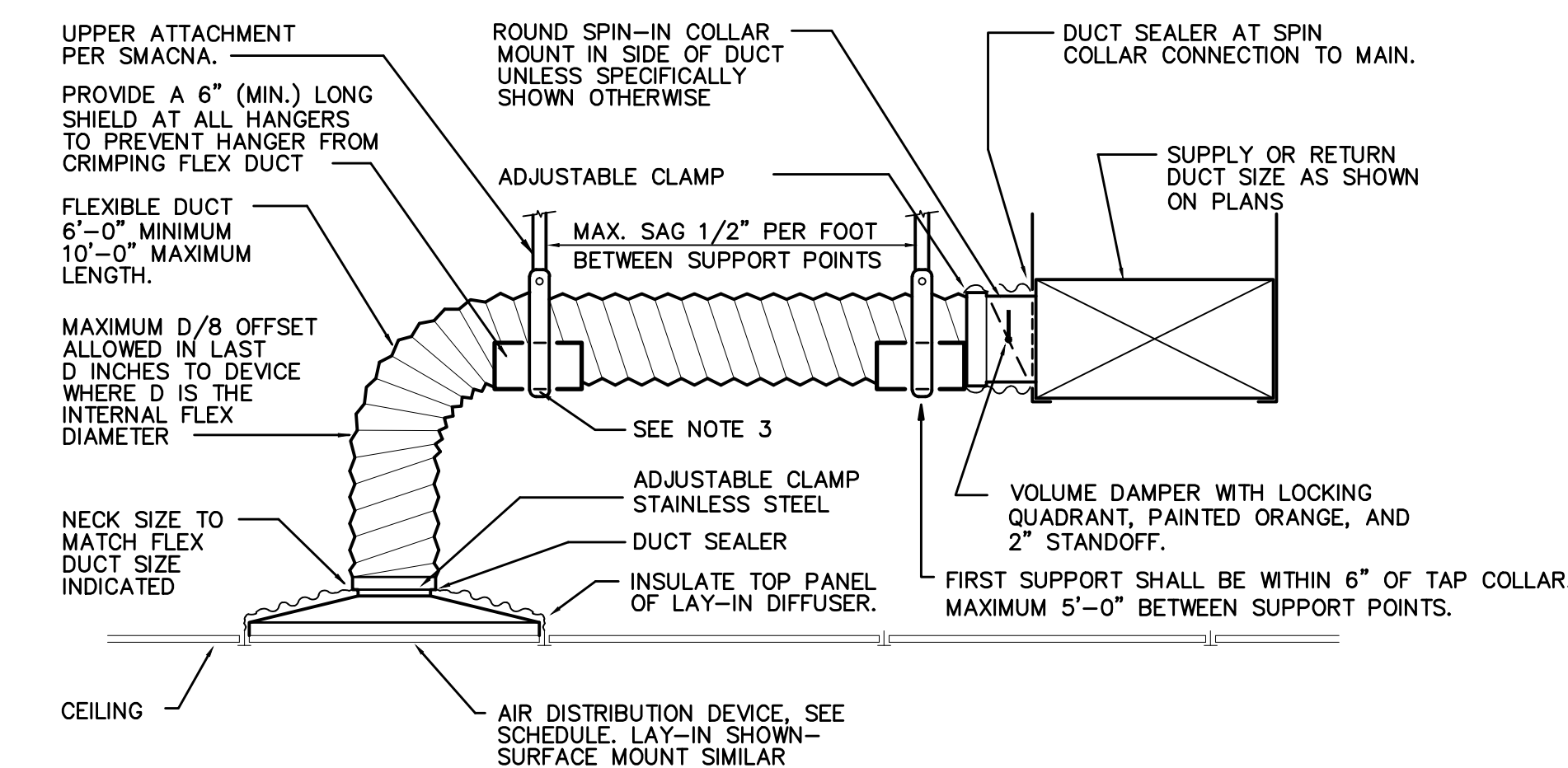
LEGEND	
	ACCESS DOOR (DUCT)
A.F.F.	ELEVATION/ABOVE FINISHED FLOOR
RBJ	RUN BETWEEN JOISTS
SA	SUPPLY AIR
RA	RETURN AIR
OA	OUTDOOR AIR
EA	EXHAUST AIR
TA	TRANSFER AIR
N/A	NOT APPLICABLE
	CEILING SUPPLY AIR DEVICE → ARROW DENOTES DIRECTION OF THROW
	RETURN AIR DEVICE
	SUPPLY, RETURN, EXHAUST OR OUTSIDE AIR DUCTWORK FIRST DESIGNATION IS SIDE SHOWN.
	TURNING VANES (No. OF VANES SHALL BE BASED ON ACTUAL DUCT SIZE & NOT ON SYMBOL ON DRAWING - SEE SMACNA)
	RETURN OR OUTSIDE AIR DUCT
	DISCHARGE OR SUPPLY DUCT
	EXHAUST FAN OR GRILLE
	FLEXIBLE DUCT CONNECTION
	VOLUME DAMPER (WITH OR WITHOUT MD)
	DROP IN DIRECTION OF AIR FLOW
	RISE IN DIRECTION OF AIR FLOW
	FLEXIBLE AIR DUCT
	SPIN COLLAR WITH MANUAL DAMPER
	EXISTING DUCTWORK OR EQUIPMENT TO REMAIN
	CROSS HATCH PATTERN INDICATES EXISTING DUCTWORK OR EQUIPMENT TO BE REMOVED
EX-SG	EXISTING SUPPLY GRILLE
EX-CFM	EXISTING RETURN AIR GRILLE
EX-RG	EXISTING RETURN AIR GRILLE
EX-EG	EXISTING EXHAUST GRILLE
EX-CFM	EXISTING EXHAUST GRILLE

GENERAL MECHANICAL NOTES	
①	ALL SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL, UNLESS NOTED OTHERWISE ON PLANS. DUCTS SHALL BE FABRICATED IN COMPLIANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE." REFER TO THE PROJECT SPECIFICATIONS FOR PRESSURE CLASSIFICATION AND SEALING REQUIREMENTS. SEAL ALL DUCTWORK TO SEAL CLASS 'A'. ALL LONGITUDINAL SEAMS 12" AND LARGER ARE TO BE PITTSBURGH LOCK TYPE.
②	REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS OF SUPPLY, RETURN, TRANSFER, RELIEF AND OUTSIDE AIR DUCTWORK.
③	EXACT LOCATION OF AIR DISTRIBUTION DEVICES SHALL BE COORDINATED WITH THE LIGHTS, SPRINKLER HEADS AND WITH THE SUSPENDED CEILING TILES, AND AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS..
④	PROVIDE ACCESS DOORS AT ALL FIRE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, DUCT HEATERS, AND AUTOMATIC TEMPERATURE CONTROL DEVICES WITH MAXIMUM ALLOWABLE STANDARD SIZE PERMITTED BY DUCT DIMENSIONS. DOORS SHALL HAVE SAFETY CHAIN WITH CAM LATCHES AND FULLY GASKETED TO THE PERIMETER. PROVIDE ACCESS PANELS IN CEILING WHERE REQUIRED TO PROVIDE ACCESS TO DAMPERS, DUCT HEATERS AND SIMILAR DEVICES.
⑤	COORDINATE INSTALLATION WITH ALL OTHER INVOLVED TRADES. IN THE CASE OF CONFLICT BETWEEN DRAWINGS AND SPECIFICATION, THE MORE STRINGENT REQUIREMENT AS DETERMINED BY THE ENGINEER SHALL TAKE PRECEDENT.
⑥	FLEXIBLE AIR DUCT SHALL BE USED FOR RUNOUTS BETWEEN THE SUPPLY AND RETURN AIR DUCTS AND AIR DISTRIBUTION DEVICES WHERE INDICATED. FLEXIBLE DUCT SHALL BE A MINIMUM OF SIX MAXIMUM OF FOURTEEN FEET IN LENGTH AND OF THE MYLAR-COATED WIRE HELIX TYPE WITH 1" THICK FIBERGLASS INSULATION AND METALIZED MYLAR LAMINATE VAPOR BARRIER COVER. ATTACH FLEXIBLE AIR DUCT TO DIFFUSERS AND SPIN COLLARS WITH PLASTIC OR METAL DRAW BANDS AND SEAL THE ENDS WITH TAPE AND MASTIC TO MAINTAIN THE VAPOR BARRIER. FLEXIBLE DUCT AND SPIN COLLAR SIZE SHALL BE THE SAME NOMINAL DIAMETER AS THE NECK OF THE AIR DISTRIBUTION DEVICE IT IS CONNECTED TO. FLEXIBLE DUCT SHALL BE ONE-PIECE AND NOT BE SPLICED TOGETHER.
⑦	ELEVATIONS GIVEN: B.E. = BOTTOM ELEVATION, C.E. = CENTERLINE ELEVATION, T.E. = TOP ELEVATION, ARE TAKEN FROM THE CONCRETE FLOOR SLAB. THESE ELEVATIONS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION OF ANY DUCTWORK.
⑧	PROVIDE SINGLE THICKNESS METAL TURNING VANES IN ALL SQUARE ELBOWS INCLUDING SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTS. WHERE UNEQUAL SQUARE ELBOWS ARE SHOWN, TURNING VANES WITH TRAILING EDGE EXTENSIONS SHALL BE USED.
⑨	DOCUMENTS ARE SCHEMATIC IN NATURE AND DO NOT INDICATE EVERY BEND, ELBOW, OR OFFSET REQUIRED IN DUCTWORK AND PIPING. FIELD VERIFY ALL DUCTWORK SIZES AND ELEVATIONS PRIOR TO FABRICATION/INSTALLATION. PROVIDE MODIFICATIONS WHERE REQUIRED FOR COORDINATION IN BASE CONTRACT PRICE AT NO ADDITIONAL COST.
⑩	ENDS OF DUCTWORK AND PIPING SHALL BE KEPT SEALED USING PLASTIC SHEETING AND DUCT TAPE DURING CONSTRUCTION.
⑪	EQUIPMENT SHALL BE SUPPLIED AND INSTALLED WITH PROVISION FOR IN-PLACE CLEANING AND SIMILAR MAINTENANCE TASKS IN ACCORDANCE WITH THE REQUIREMENTS OF ASHRAE 62-1999.
⑫	PROVIDE MISCELLANEOUS STRUCTURAL STEEL TO SPAN ACROSS BEAMS, JOISTS AND PURLINS WHERE REQUIRED FOR INTERMEDIATE SUPPORT.
⑬	OUTDOOR AND EXHAUST AIR DUCTS SHALL BE SLOPED TOWARDS THE INTAKE OR EXHAUST LOUVERS.
⑭	THE CONTRACTOR IS TO CLEAN, PRIME, AND PAINT FLAT BLACK THE INSIDE OF ALL DUCTWORK THAT IS VISIBLE THROUGH ANY LOUVER OR AIR DEVICE.
⑮	LOCATIONS FOR TEMPERATURE AND HUMIDITY SENSORS ARE APPROXIMATE IN NATURE AND SHALL NOT BE SCALED FROM THE DRAWINGS. COORDINATE EXACT LOCATIONS WITH ROOM FURNITURE LAYOUT AND CONFIRM PROPOSED LOCATION WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
⑯	FOR ALL MANUAL VOLUME DAMPERS LOCATED ABOVE A HARD CEILING OR INACCESSIBLE CEILING, PROVIDE A REMOTE CABLE OPERATED DAMPER ACTUATOR ASSEMBLY MOUNTED IN THE CEILING, EQUAL TO "YOUNG REGULATOR".

EQUIPMENT MARK DESIGNATION	
CD	CEILING DIFFUSER
EG	EXHAUST GRILLE
RG	RETURN GRILLE
SG	SIDEWALL GRILLE
TG	TRANSFER GRILLE
UNIT NUMBER	
CD-X	
XXX	AIR QUANTITY IN CFM (CUBIC FEET PER MINUTE)

DUCTWORK SIZE COORDINATION	
NEW DUCTWORK SHOWN IN CONCEALED LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION. IF A DUCT SIZE IS DETERMINE TO BE NEEDED TO BE REVISED, THE CONTRACTOR SHALL ISSUE AN RFI AND NOTIFY THE ENGINEER TO ASSIST IN DETERMINING AN ALTERNATIVE DUCT SIZE.	

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
M-0.1	LEGEND, GENERAL NOTES, AND SCHEDULE
M-1.1	MECHANICAL HVAC PLAN - DEMOLITION AND NEW WORK



1 M-0.1 **FLEXIBLE DUCT DETAIL** SCALE: NONE

- FLEXIBLE DUCT NOTES
- FLEXIBLE DUCTS SHALL BE ONE-PIECE AND SHALL NOT BE SPLICED TOGETHER.
 - EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER PANEL INSULATION AND SEAL WITH MASTIC.
 - MINIMUM 1-1/2" WIDE, 22 GAUGE GALVANIZED STRAP HANGER WITH HEMMED EDGES PER SMACNA FIGURE 3-10.
 - FLEXIBLE AIR DUCT SHALL BE FULLY EXTENDED AND NOT COMPRESSED WITH ELBOW RADIUS NO LESS THAN R/D = 1.0.

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CONSTRUCTION DOCUMENT SET FOR:
ADMIRAL'S COVE
GOLF VILLAGE CLUBHOUSE
149 GOLF VILLAGE BOULEVARD
JUPITER, FLORIDA 33458

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M-0.1
BID SET