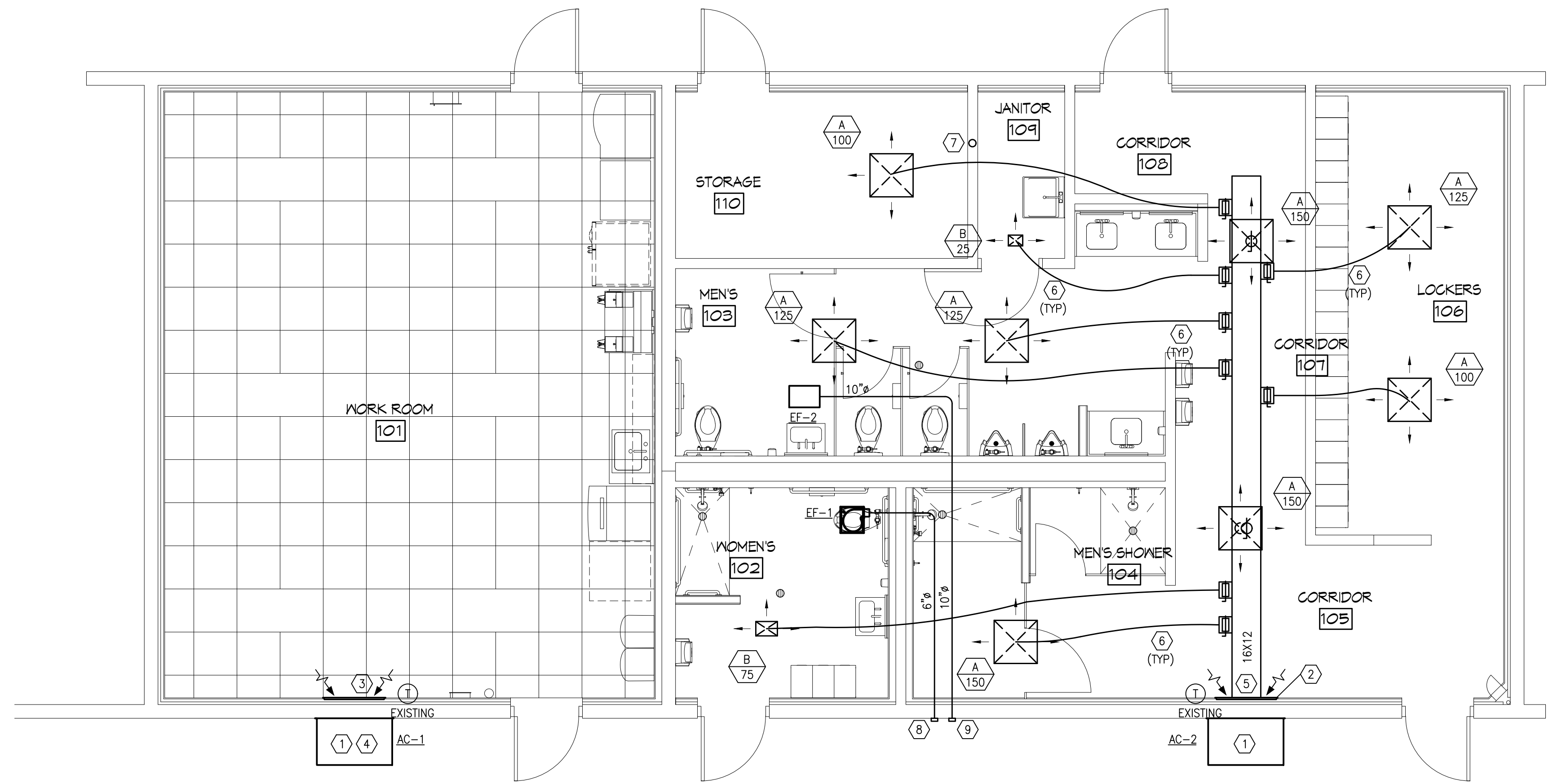


GENERAL NOTES AND SPECIFICATIONS

- THE MECHANICAL CONTRACTOR SHALL COMPLY WITH THE 2020 FLORIDA BUILDING CODE (7TH EDITION), THE STATE OF FLORIDA ENERGY CODE, AND ALL LOCAL CODES AS MAY BE APPLICABLE.
- MECHANICAL PLANS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION, AND GENERAL ARRANGEMENT, BUT NOT EXACT DETAILS OF CONSTRUCTION. THE FACT THAT ONLY CERTAIN FEATURES OF THE INSTALLATION ARE INDICATED MUST NOT BE TAKEN TO MEAN THAT OTHER SIMILAR OR DIFFERENT FEATURES WILL NOT BE REQUIRED. ALL RISES AND DROPS IN PIPING AND DUCTWORK NOT NECESSARILY SHOWN.
- WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND OTHER COSTS AS ARE NECESSARY FOR THE INSTALLATION OF A COMPLETE AND SATISFACTORY OPERATIONAL AIR CONDITIONING SYSTEM.
- SHOP DRAWINGS SHALL BE PROVIDED FOR ALL MECHANICAL EQUIPMENT THAT IS TO BE USED ON THIS PROJECT WHETHER OR NOT THE EQUIPMENT IS SPECIFICALLY SPECIFIED IN THESE DOCUMENTS. THIS INCLUDES (BUT IS NOT LIMITED TO) HVAC EQUIPMENT & SUPPORTS, DIFFUSERS/GRILLES/OILERS, DUCT WORK & SUPPORTS, REFRIGERANT LINES, INSULATION, HVAC SPECIALTIES (COLLARS, FIRE DAMPERS, BALANCING DAMPERS ETC.) CONTROLS & CABLING, ETC.. SHOP DRAWINGS SHALL BE REQUIRED PRIOR TO ORDERING OR ANY INSTALLATION OF EQUIPMENT. ANY EQUIPMENT NOT INCLUDED IN THE SHOP DRAWING SUBMITTALS, SHALL BE PROVIDED PER THE PLANS AND SPECIFICATIONS. SUBMITTALS ARE TO BE TOTAL & COMPLETE. INCOMPLETE OR PIECEMEAL SHOP DRAWINGS WILL NOT BE REVIEWED UNTIL ALL SUBMITTALS ARE PROVIDED. ALL EQUIPMENT (INCLUDING ANY/OPTIONS) SHALL BE CLEARLY SELECTED/INDICATED ON THE CUTSHEETS INCLUDED IN THE SUBMITTAL. SUBMITTALS SHALL BE PROVIDED IN PDF FORMAT. SHOP DRAWINGS SUBMITTED BY WAY OF AN ELECTRONIC PROJECT MANAGEMENT SYSTEM ARE NOT ACCEPTABLE.
- VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS OR FIELD DIMENSIONS.
- UNLESS NOTED, ALL MATERIALS SHALL BE NEW, COMPLETE, INCLUDE MANUFACTURER'S WARRANTY, AND BE U.L. APPROVED IF APPLICABLE. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
- EQUIPMENT AS PER SCHEDULED LIST OF ACCEPTABLE MANUFACTURERS:
A/C EQUIPMENT: BARD
A/C GRILLES: TITUS, OR APPROVED EQUAL
FANS: COOK, OR APPROVED EQUAL
- ALL EQUIPMENT SHALL BE STARTED, TESTED, ADJUSTED AND BALANCED FOR AIR DELIVERY AS INDICATED ON THE PLANS, AND PLACED IN SATISFACTORY OPERATIONAL CONDITION BY THE HVAC CONTRACTOR. A CERTIFIED TEST AND BALANCE IS NOT REQUIRED. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY. THIS IS IN ADDITION TO ANY WARRANTY OR GUARANTEE FROM THE EQUIPMENT MANUFACTURER. FURNISH THE OWNER WITH THE MANUFACTURER'S WRITTEN WARRANTY CERTIFICATES. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ONE BELT AND SHEAVE CHANGE ON ALL BELT DRIVEN EQUIPMENT FOR BALANCING PURPOSES. ALL CONTROLS ARE TO BE TESTED AND CALIBRATED SO AS TO BE OPERATING WITH THE MANUFACTURER'S SPECIFICATIONS. ANY DEFECTIVE UNITS ARE TO BE REPLACED.
- ALL EQUIPMENT SHALL BE PROPERLY SUPPORTED AND ISOLATED TO PREVENT NOISE AND VIBRATION TRANSMISSION. ALL AIR HANDLING EQUIPMENT SHALL BE SUPPORTED WITH SPRING ISOLATORS. ALL CONNECTIONS BETWEEN AIR HANDLING EQUIPMENT AND DUCTWORK SHALL BE CANVAS FLEXIBLE CONNECTORS FOR ALL SYSTEMS ABOVE 5 NOMINAL TONS IN SIZE.
- PROVIDE SPRING ISOLATORS FOR ALL TRUSS MOUNTED EXHAUST FANS.
- ALL EQUIPMENT SHALL BE LOCATED WITHIN THE MECHANICAL ROOM AND CEILING SPACES WITH ADEQUATE CLEARANCES FOR REPAIR AND MAINTENANCE. ALL PIPING AND DUCTWORK SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT. CONTRACTOR SHALL ENSURE THAT NO TRANSMISSION OF THIS SPACE IS MADE BY OTHER CONTRACTORS.
- ALL CONTROL WIRING SHALL BE IN CONDUIT. WHERE CONTROL WIRING IS CONCEALED BY CEILING STRUCTURE, WIRING MAY BE PLENUM RATED CABLE. ALL CONTROL WIRING SHALL BE SECURELY ATTACHED TO THE STRUCTURE AT A MAXIMUM SPACING OF EVERY FOUR FEET.
- DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN CONCEALED IN CEILING SPACES PROVIDED UNLESS NOTED OR INDICATED OTHERWISE. ROUTING SHALL BE COORDINATED WITH OTHER TRADES. DO NOT INSTALL ANY DUCTWORK OR PIPING OF ANY KIND ABOVE ELECTRICAL PANEL.
- ALL DUCTWORK, INSTALLATION AND EQUIPMENT SHALL MEET THE LATEST ADOPTED EDITION OF THE STATE OF FLORIDA ENERGY CODE.
- ALL DUCTWORK SHALL BE FABRICATED FROM RIGID FIBERGLASS DUCTBOARD WITH ANTIMICROBIAL COATING AND 1-1/2" R-6 INSULATION IN ACCORDANCE WITH SMACNA "FIBROUS GLASS DUCT CONSTRUCTION STANDARDS".
- FLEXIBLE DUCTWORK, WHERE SHOWN ON THE DRAWINGS, SHALL BE EQUAL TO FLEXAIRE WITH WIRE HELIX FRAME, POLYESTER LINER, HIGH DENSITY FIBERGLASS INSULATION AND METALIZED REINFORCED VAPOR BARRIER EXTERIOR COVERS. PROVIDE SPIN-IN FITTINGS WITH BELL MOUTH TYPE FITTINGS WITH ADJUSTABLE DAMPERS FOR ALL BRANCH TAKEOFFS (WHERE INDICATED ON PLANS). FLEXIBLE DUCTWORK SHALL BE PROPERLY SUPPORTED WITH GALVANIZED STEEL STRAPS 2" WIDE AND SHALL BE RUN AS STRAIGHT AS POSSIBLE WITH NO KINKS OR BENDS TO RESTRICT AIRFLOW.
- OUTSIDE AIR AND TOILET EXHAUST DUCTWORK SHALL BE METAL. FOR OUTSIDE AIR CONDITIONING UNIT, PROVIDE EXTERNALLY INSULATED SHEET METAL WITH FOIL FACED BACKING WITH A MINIMUM OF R-6 INSULATION. DUCT TOILET EXHAUST TO WALL CAPS AS SHOWN ON PLANS. CAPS SHALL BE ALUMINUM CONSTRUCTION WITH BIRD AND INSECT SCREENS.
- HVAC SUPPLY DIFFUSERS AND RETURN GRILLES SHALL BE TITUS WITH WHITE FINISH, ALUMINUM CONSTRUCTION. SEE PLANS FOR THROAT CONNECTION SIZES.
- THERMOSTATS SHALL BE 7 DAY PROGRAMMABLE WITH L.C.D. READOUT FOR ONE OR TWO STAGES BASED ON STAGES OF COOLING FOR UNIT BEING SERVED. EQUAL TO WHITE-RODGERS MODEL 1F95-1291 (1F93-380 FOR AVERAGING OF MORE THAN 1 SENSOR). WALL MOUNTED THERMOSTATS SHALL BE INSTALLED 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
- THESE CONTRACT DOCUMENTS REPRESENT A PORTION OF A COMPLETE DESIGN WHICH, TO THE BEST OF OUR KNOWLEDGE, HAVE BEEN PREPARED IN COMPLIANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS. THE USE OF THESE PLANS WITHOUT THE CONSENT OF THE ENGINEER OF RECORD IS PROHIBITED. ALTERATIONS TO THE DESIGN AS SHOWN ON THESE PLANS ARE ONLY ALLOWED BY WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD.
- H.V.A.C. CONTRACTOR SHALL PROVIDE ONE SET OF CUTSHEETS OF ALL SELECTED EQUIPMENT TO ELECTRICAL CONTRACTOR TO ADJUST CIRCUIT REQUIREMENTS (IF REQUIRED) BASED ON ACTUAL SELECTED MANUFACTURER'S DATA.
- CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES. REFERENCE ENTIRE SET OF CONSTRUCTION DOCUMENTS IN INSTALLATION OF MECHANICAL SYSTEMS INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING AND FIRE SPRINKLERS.
- THESE PLANS MAKE REFERENCE TO EXISTING CONDITIONS. CONTRACTOR SHALL VISIT SITE WITH RESPECT TO PROPOSED CONSTRUCTION PRIOR TO BID. NOTIFY ENGINEER OF ANY DISCREPANCIES.

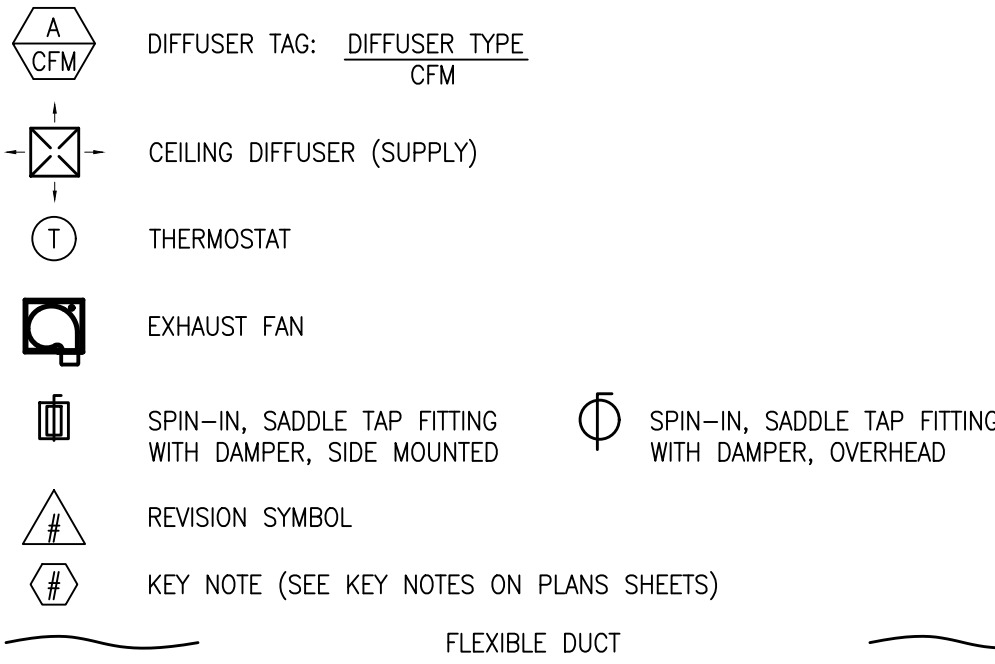


MECHANICAL PLAN KEYNOTES

- EXISTING UNIT TO REMAIN.
- EXISTING RETURN GRILL TO BE REMOVED, CLEANED, PAINTED AND REINSTALLED.
- EXISTING RETURN AND SUPPLY GRILL TO BE REMOVED, CLEANED, PAINTED AND REINSTALLED.
- PROVIDE BID ALTERNATE FOR NEW UNIT AS SCHEDULED. NO DUCTING OFF OF THIS UNIT.
- CONNECT NEW DUCT TO SUPPLY SIDE OF EXISTING UNIT ABOVE CEILING.
- REFER TO FLEX DUCT RUNOUT NOTES FOR SIZING.
- EXISTING DRYER DUCT TO REMAIN.
- PROVIDE STANDARD WALL CAP FOR 6" EXHAUST DUCT.
- PROVIDE CUSTOM WALL CAP FOR 10" EXHAUST DUCT.

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

HVAC SYMBOLS



ABBREVIATIONS

Ø	DIAMETER	KW	KILOWATT
A/C	AIR CONDITIONING	MFR	MANUFACTURER
AFF/G	ABOVE FINISH FLOOR/GRADE	MAX	MAXIMUM
AHU	AIR HANDLING UNIT	MBH	BTU X 1,000
AJH	AUTHORITY HAVING JURISDICTION	MECH	MECHANICAL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	MIN	MINIMUM
REQ'D	REQUIRED	REO'D	REQUIRED
BTUH	BRITISH THERMAL UNIT PER HOUR	SBCCI	SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL
CFM	CUBIC FEET PER MINUTE	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
CLG	CEILING	SS	STAINLESS STEEL
DWG	DRAWING	SS	STAINLESS STEEL
EF	EXHAUST FAN	TSTAT	THERMOSTAT
ESP	EXTERNAL STATIC PRESSURE	UNO	UNLESS NOTED OTHERWISE
EXH	EXHAUST	UL	UNDERWRITERS LABORATORIES
HGT	HEIGHT	VAV	VARIABLE AIR VOLUME
HTR	HEATER	W/	WITH
HP	HORSE POWER	W/O	WITHOUT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING		

FLEX DUCT RUNOUT NOTES

- TYPICAL FOR ALL RUN OUTS FROM MAIN SUPPLY (OR RETURN) DUCT TO DIFFUSER. PROVIDE WITH ROUND SPIN-IN WITH DAMPER AT DUCT CONNECTION. RUN DUCT IN EXTERNALLY INSULATED GALVANIZED SHEET METAL SNAP-LOCK UP TO WITHIN 5' OF DIFFUSER. MAKE FINAL CONNECTION TO DIFFUSER WITH INSULATED FLEX DUCT. NO MORE THAN 5' OF FLEX DUCT MAY BE USED. ROUND DUCT AND FLEXIBLE DUCT SHALL MATCH DIFFUSER NECK SIZE (WHERE ROUND). FOR ALL OTHER GRILLES WITHOUT ROUND NECK, SIZE SHALL BE PER FOLLOWING RUN OUT SCHEDULE:
4" - 0 TO 50 CFM
6" - 51 TO 125 CFM
8" - 126 TO 225 CFM
10" - 226 TO 350 CFM
12" - 351 TO 600 CFM
- ALL DIFFUSER CONNECTIONS LARGER THAN 600 CFM SHALL BE MADE FULL DUCT SIZE AS INDICATED ON PLANS TO DIFFUSER.

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	NECK SIZE	CFM RANGE	REMARKS
A	SURFACE OR DUCT MOUNTED DIFFUSER.	TITUS	TMS-AA-1 24X24-3-26-AG75	6"ø 8ø 10ø 12ø	0 - 125 126 - 225 226 - 350 351 - 475	1, 2, 3, 4, 5.
B	SURFACE OR DUCT MOUNTED DIFFUSER.	TITUS	250-AA-1 26-N-AG15-L1	8 X 4 12 X 6	0 - 50 51 - 125	1, 2, 3, 4

- REMARKS
- WHITE FINISH, ALUMINUM CONSTRUCTION.
 - OPPOSED BLADE VOLUME DAMPER.
 - SURFACE OR DUCT MOUNTED DIFFUSER.
 - FLEXIBLE DUCT RUN-OUT SIZE TO MATCH DIFFUSER NECK SIZE.
 - PROVIDE TITUS "PF" PLASTER FRAME ACCESSORY WHERE INSTALLED IN HARD CEILING.

FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	ESP	HP	VOLT	RPM / WATTS	SONES	WEIGHT	REMARKS
EF-1	COOK	GN-148	100	0.38	-	120/1	965/41	2.0	14.0	1, 2
EF-2	COOK	GN-642	350	0.38	-	120/1	1199/122	2.0	29.0	1, 2

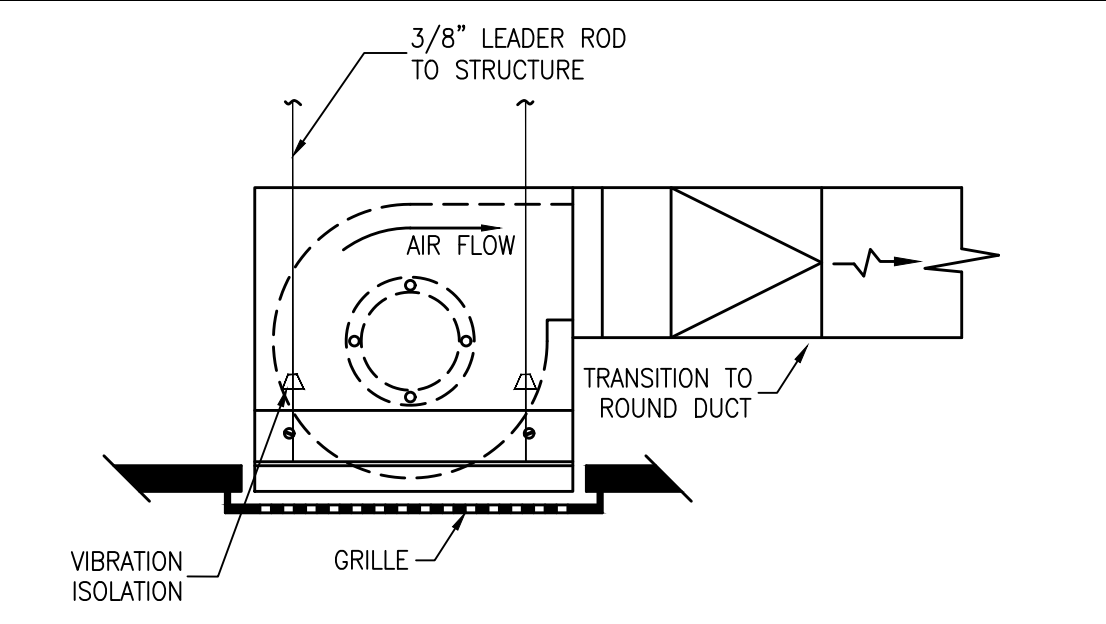
- REMARKS
- PROVIDE WITH BACKDRAFT DAMPER
 - PROVIDE MOTION SENSOR CONTROL FOR ON/OFF.

PACKAGE AC SCHEDULE

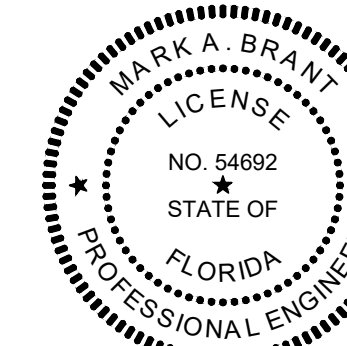
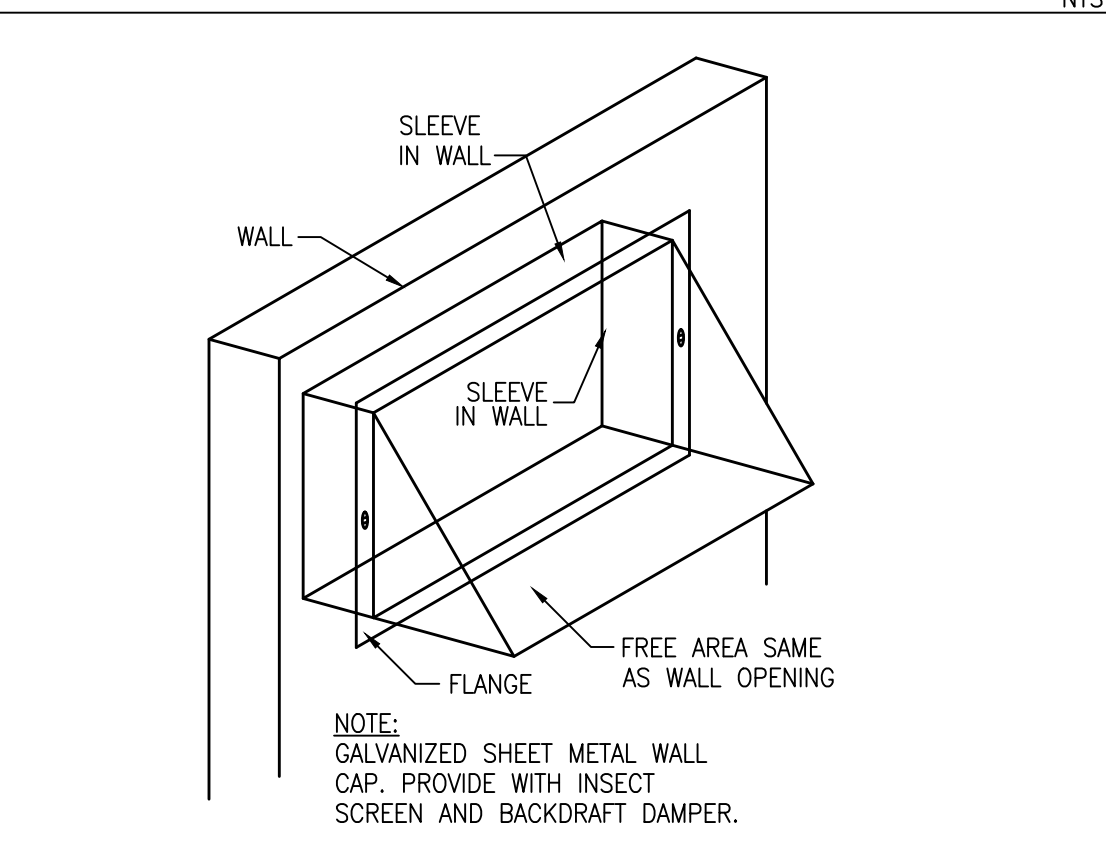
MARK	LOCATION SERVED	MFG	UNIT TYPE	MODEL	EVAPORATOR FAN					COOLING				HEATING			SYSTEM DATA				REMARKS				
					CFM		FAN			CAPACITY		E.A.T.		AMBIENT		TYPE	TMBH	STEP	ELECTRICAL			EER			
					TOTAL	OA	ESP	HP	TYPE	TMBH	SMBH	DB	WB	DB	WB				NO COMP	COMP RLA			VOLT	MCA	MOP
AC-1	Workroom	BARD	WALL MOUNT AC	W48A2-A05	1,100	-	0.50	1/3	DIRECT	47.4	33.2	80	67	95	80	1	23.5	ELECTRIC	17.1	1	208-1	39.0	50	9.0	
AC-2	Bathrooms	BARD	WALL MOUNT AC	W36A2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	

- REMARKS
- SCHEDULED UNIT IS FOR BID ALTERNATE PURPOSES. SEE PLAN NOTES FOR ADDITIONAL INFORMATION OR REQUIREMENTS REGARDING EXISTING SYSTEM.
 - EXISTING SYSTEM TO REMAIN. SEE PLAN NOTES FOR ADDITIONAL INFORMATION OR REQUIREMENTS.

CEILING FAN DETAIL



WALL CAP DETAIL



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MARK A. BRANT, PE, ON 3/18/2024.
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