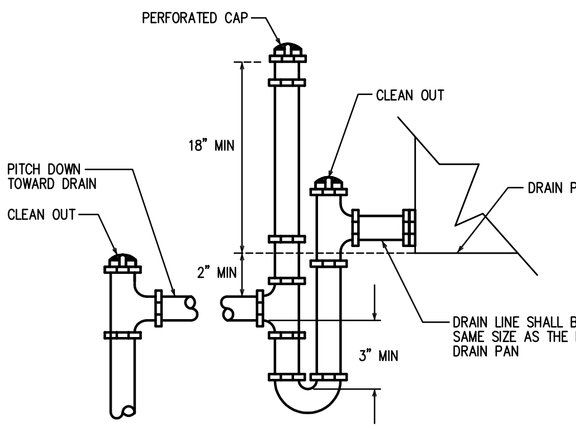
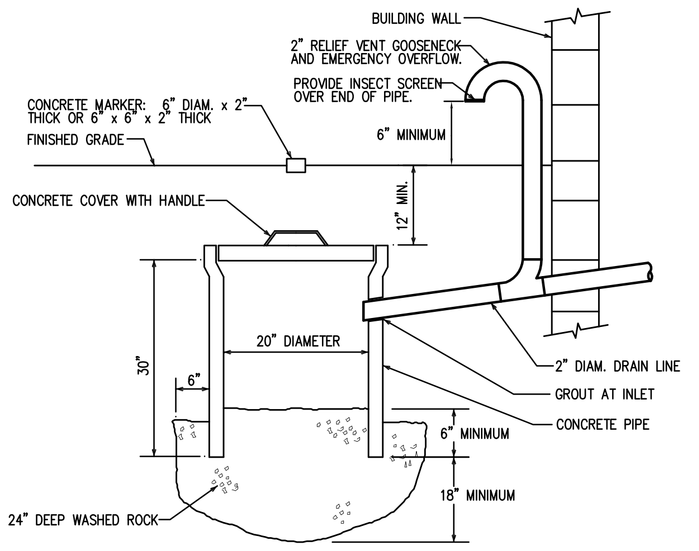


TYPICAL CONDENSATE DRAIN TRAP

SCALE: N.T.S.



CONDENSATE DRYWELL DETAIL

SCALE: N.T.S.

HVAC NOTES, LEGEND AND SYMBOLS

(GENERAL NOTES ARE PROVIDED AS A BASIC DESCRIPTION OF THE EXTENT AND QUALITY EXPECTED IN THIS PROJECT. IF A CONFLICT EXISTS BETWEEN THESE GENERAL NOTES AND THE REMAINDER OF THE CONTRACT DOCUMENTS THE SPECIFICATIONS, PLANS AND DETAILS WILL GOVERN.)

GENERAL NOTES:

1. ALL MECHANICAL SYSTEMS ARE TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE NFPA STANDARDS, ANSI STANDARDS, THE LOCAL BUILDING CODE, NOISE & HEIGHT ORDINANCES, PLANS AND SPECIFICATIONS.
2. ALL MATERIALS SHALL BE NEW AND ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, PRODUCT APPROVAL RULES AND ORDINANCES, ANY DAMAGED EQUIPMENT SHALL BE REPLACED OR RESTORED TO ORIGINAL CONDITION.
3. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, ACCESS PANELS, CONTROL SYSTEMS, DEVICES, PERMITS AND SERVICES NECESSARY FOR FURNISHING AND INSTALLING A COMPLETE OPERABLE MECHANICAL SYSTEM.
4. ALL LOUVERS, GRILLES, PIPING, ETC. SHALL BE PAINTED TO MATCH SURROUNDING COLOR AND TEXTURES AS REQUIRED BY ARCHITECT. VERIFY COLOR AND TEXTURE WITH ARCHITECT. PAINT ALL EXPOSED MECHANICAL EQUIPMENT WITH BENJAMIN MOORE EPOXY ENAMEL 182.
5. THE CONTRACTOR SHALL PROVIDE PLASTIC OR ALUMINUM TYPE EQUIPMENT IDENTIFICATION LABELS FOR ALL MECHANICAL EQUIPMENT AS PER SCHEDULE TAGS. (SETON OR SIMILAR)
6. ALL CUTTING, PATCHING, STRUCTURAL STEEL, WEATHER PROOFING, PAINTING, AND WALL OPENINGS SHALL BE BY THE GENERAL CONTRACTOR.
7. ALL OPENINGS IN BUILDING STRUCTURE, FOR DUCTWORK, PIPING, ETC. TO BE 1/2" LARGER (ON ALL SIDES) THEN THE OUTSIDE DIMENSIONS. FILL VOIDS WITH FIRE RETARDANT SILICONE FOAM (I.E. CHASE-FOAM CTC PR-855 BY CHASE TECHNOLOGY CORP.).
8. PROVIDE FLEXIBLE DUCT CONNECTORS, RATED AS REQUIRED, TO ALL FANS, A/C UNITS, OR MECHANICAL EQUIPMENT.
9. BUILDING HVAC CALCULATIONS ARE BASED ON THE FOLLOWING:
   A. INDOOR DESIGN: SUMMER 75 DDB/50% RH, WINTER 72 DDB.
   B. OUTDOOR DESIGN: SUMMER 92 DDB/78 DWB, WINTER 46 DDB.
   C. BUILDING CONDITIONS:

WALL R-VALUE:	R-5 (U=0.2)
ROOF R-VALUE:	R-19 (U=0.05)
GLASS PERFORMANCE DATA:	
-CLEAR GLASS BLOCK:	
U VALUE	0.51
SC	0.65
SHGC	0.66
-STOREFRONT GLASS:	
U VALUE	0.55
SC	0.81
SHGC	0.70

10. PROVIDE MAINTENANCE AND OPERATION MANUAL ON ALL MECHANICAL EQUIPMENT OR SYSTEMS. PROVIDE 5 SETS OF SUBMITTALS ON ALL HVAC EQUIPMENT. SUBMITTALS SHALL HAVE A SUMMARY SHEET SHOWING ALL SCHEDULED INFORMATION.
11. HVAC CONTRACTOR WILL WARRANTY ALL MECHANICAL SYSTEMS, DUCTWORK, THERMOSTATS, AND ALL OTHER EQUIPMENT,PARTS AND LABOR UNDER THESE DRAWINGS AND SPECIFICATIONS FOR A PERIOD OF ONE (1) YEAR AFTER C.O. OF BUILDING. ANY REPAIRS REQUIRING SYSTEM SHUT DOWN WILL BE DONE DURING NON OPERATIONAL PERIODS. HVAC CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO BIDDING AND PURCHASING ANY EQUIPMENT.

MECHANICAL EQUIPMENT NOTES:

1. ALL MECHANICAL EQUIPMENT SHALL BE ARI & U.L. LISTED WHERE APPLICABLE AND RATED FOR THE REQUIRED SERVICE, PRESSURES, TEMPERATURES, AND SHALL BE PROVIDED WITH ALL NECESSARY TRANSFORMERS, SEALS, VALVES, CONNECTIONS, ETC. TO FUNCTION PROPERLY.
2. PROVIDE SMOKE DETECTORS WITH ACCESS DOORS IN ALL SUPPLY AIR DUCTS FOR FANS AND AHU'S OF 2000 CFM OR ABOVE. ALL SMOKE DETECTORS SHALL BE BY ONE MANUFACTURER; COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING. UPON DETECTION, SMOKE DETECTORS SHALL SHUT DOWN ASSOCIATED AIR MOVING EQUIPMENT.
3. PROVIDE TYPE "B" FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED WALLS, PARTITIONS, FLOORS OR ROOF SLABS AND AT FRESH AIR INTAKES IF REQUIRED (SEE ARCHITECTS PLANS FOR RATINGS).
4. PROVIDE BACKDRAFT DAMPERS ON ALL EXHAUST FANS AND/OR INLINE FANS.
5. PROVIDE VIBRATION ISOLATORS ON ALL MECHANICAL EQUIPMENT AS CALLED FOR IN THE SPECIFICATIONS. IF NOT SPECIFIED, AS RECOMMENDED BY MANUFACTURER FOR QUIET OPERATION (WITH 99% ISOLATION EFFICIENCY).
6. PROVIDE A MIN. OF 10' CLEARANCE BETWEEN O/A INTAKES AND VTR OR EXHAUST OPENINGS.
7. THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER BEFORE INSTALLATION.
8. THERMOSTAT SHALL HAVE THE FOLLOWING STANDARD FEATURES:
   - TEMPERATURE REMOTE SENSOR CAPABILITY.
   - UP TO 3-OCCUPIED/1-UNOCCUPIED PERIODS PER DAY.
   - PROGRAMMABLE OUTPUT (CONTROL BY TIME OR TEMPERATURE)
   - SMART FAN (KEEPS THE FAN FROM RUNNING DURING UNOCCUPIED PERIODS)
   - KEYPAD LOCKOUT.
9. RUN INSULATED CONDENSATE DRAINS AS SHOWN ON DRAWINGS.
10. ALL PIPING AND DUCTWORK SHALL BE SLEEVED THRU WALLS, BEAMS, SLABS, ETC. AS REQUIRED AND COORDINATED WITH THE STRUCTURAL ENGINEER. REWORK BAR JOIST CROSS BRACING AND PROVIDE NECESSARY TRANSITIONS AS REQUIRED FOR DUCTWORK INSTALLATION.
11. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.
12. PROVIDE MOTOR STARTERS AS FOLLOWS (UNLESS OTHERWISE RECOMMENDED BY MOTOR MANUFACTURER):
    A: PROVIDE OVERLOAD PROTECTION – 1/3 HP AND ABOVE (ALL PHASES).
    B: PROVIDE ACROSS THE LINE VOLTAGE STARTING BELOW 25 HP.
13. ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCES. MIN. REQUIREMENT SHALL NOT EXCEED A NOISE LEVEL OF 65 DB AS MEASURED RADIALLY 30 FT FROM THE EQUIPMENT IN ALL DIRECTIONS.
14. FILTERS SHALL BE IN PLACE DURING CONSTRUCTION. PROVIDE A NEW SET PRIOR TO TEST AND BALANCE AND A FINAL SET AT SUBSTANTIAL COMPLETION.
15. COUNTERBALANCED BACKDRAFT DAMPERS SHALL BE HEAVY DUTY EXTRUDED ALUMINUM RUSKIN MODEL CBD2 OR APPROVED EQUAL.

OUTSIDE AIR CALCULATIONS

MULTIPLE ZONE RECIRCULATING SYSTEMS
(BASED ON ASHRAE STANDARD 62.1-2004)

SYSTEM TAG	VENTILATION ZONE	OCCUPANCY CATEGORY	Az (SF)	Pz (p)	Rp (CFM/p)	Ra (CFM/SF)	Rp x Pz (CFM)	Ra x Az (CFM)	Vbz (CFM)	Ez	Voz (CFM)	Vpz (CFM)	Zp	Ps (p)	∑[Pz] (p)	D (p)	Vou (CFM)	Ev	Vot (CFM)	Fresh Air Intake (CFM)
AHU-1														46	46	1.0	290.4	1.0	290.4	400
	MULTI-PURPOSE RM.	MULTI-PURPOSE ASSEMBLY	910	46	5.0	0.06	230.0	54.6	284.6	1	284.6	1940.0	0.15							
	STORAGE	STORAGE RMS.	48	--	--	0.12	--	5.8	5.8	1	5.8	75.0	0.07							

DEFINITIONS:

Az: NET OCCUPIED FLOOR AREA
Ra: OUTDOOR AIRFLOW RATE REQUIRED PER UNIT AREA AS DETERMINED FROM TABLE 6-1
Pz: ZONE POPULATION
Rp: OUTDOOR AIRFLOW RATE REQUIRED PER PERSON AS DETERMINED FROM TABLE 6-1
Vou: UNCORRECTED OUTDOOR AIR INTAKE
Vou = D∑Rp X Pz + ∑ Ra X Az
D: OCCUPANT DIVERSITY
D = Ps/∑ Pz
Ps: TOTAL POPULATION IN THE AREA SERVED BY THE SYSTEM
Vot: DESIGN OUTDOOR AIR INTAKE FLOW
Vot= Vou/Ev
Ev: SYSTEM VENTILATION EFFICIENCY AS DETERMINED FROM TABLE 6-3 (BASED ON MAX. Zp)
Zp: ZONE PRIMARY OUTDOOR AIR FRACTION
Zp = Voz/Vpz
Vpz: ZONE PRIMARY AIRFLOW
Voz: ZONE OUTDOOR AIRFLOW
Voz = Vbz/Ez
Ez: ZONE AIR DISTRIBUTION EFFECTIVENESS AS DETERMINED FROM TABLE 6-2
Vbz: BREATHING ZONE OUTDOOR AIR FLOW
Vbz = Rp X Pz + Ra X Az

AIR DISTRIBUTION/DUCTWORK NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE.
2. PROVIDE WHITE FINISH (SUBJECT TO ARCHITECT'S APPROVAL).
3. ALL DUCTWORK WHERE ALLOWED BY LOCAL CODES AND AND CEILING RATING SHALL BE 1" LOW PRESSURE DUCT, SEAL CLASS "C" AND AS FOLLOWS:
   A. S/A & R/A = 1-1/2" THICK FIBERGLASS DUCT BOARD WITH VAPOR BARRIER (R-6 MIN) JOHNHNS MANVILLE MAT-FACED MICRO AIRE OR EQUIVALENT.
   B. FLEXIBLE AIR DUCT SHALL BE UL 181 RATED. SUCH DUCTS SHALL BE LISTED AND LABELED AS CLASS 0 OR CLASS 1 FLEXIBLE DUCTS. FLEXIBLE DUCT INSULATION TO BE R-4.2 MINIMUM.
   C. OUTSIDE AIR DUCTWORK – INSULATED GALVANIZED SHEETMETAL
4. PROVIDE FOIL-FACED INSULATION ON TOP/BACK OF ALL AIR DEVICES. TAPE ALL JOINTS AND SEAMS TO PROVIDE CONTINUOS VAPOR BARRIER OVER DEVICE AND FLEXIBLE CONNECTION.
5. ALL DUCTWORK AND DIFFUSERS SHALL BE RATED FOR THE USE, PRESSURE AND TEMPERATURE SPECIFIED AND AS REQUIRED BY THE CEILING SYSTEM RATING.
6. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH "SMACNA" STANDARDS AND LOCAL BUILDING CODES.
7. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
8. SEAL ALL DUCTS, JOINTS AND SEAMS IN AN APPROVED MANNER AND INSURE AGAINST LEAKAGE.
9. PROVIDE ACCESS DOORS AS REQUIRED FOR ALL MECHANICAL EQUIPMENT TO SERVICE AND VISUALLY CHECK ROTATION OF FANS AND MOTORS. POSITION OF DAMPERS, REPLACE FIRE DAMPER LINKS, ADJUST OR REPLACE CONTROLS, ETC.
10. PROVIDE VANED ELBOWS IN ALL CASES, SPLITTER DAMPERS WHERE INDICATED ON DRAWINGS AND VOLUME CONTROL DAMPERS IN ALL BRANCH DUCTS OR DIFFUSER CONNECTIONS.

SPLIT SYSTEMS DATA (EXISTING UNITS)

(DATA IS PROVIDED ONLY FOR REFERENCE ON BUILDING ENERGY CALCULATIONS)

AIR HANDLING UNIT			CONDENSING UNIT		SYSTEM DATA		
MARK	MODEL NO.	HEATER KW @208	MARK	MODEL NO.	CAPACITY TMBH	EER	IPLV
(2)-EXISTING AHU'S	TWE180B	22.5	(2)-EXISTING CU'S	TTA180B3	182.0	9.7	10.9

AIR DISTRIBUTION SCHEDULE

SYMBOL	USE	TYPE	DESIGN MANUFACTURER & MODEL NO.	REMARKS	ACCESSORIES
CD	SUPPLY AIR	DIFFUSERS	TITUS TDC-AA	LAY IN – 24X24 MODULE ROUND NECK-4 WAY	---
CG	SUPPLY AIR	GRILLES	TITUS 250-AA	SURFACE MOUNT	---
RAG-1	RETURN AIR	GRILLES & REGISTERS	TITUS 350FL	22X22 LAY IN 24X24 MODULE	OBD
RAG-2	RETURN AIR	GRILLES & REGISTERS	TITUS 350FL	SURFACE MOUNT 8X8 DUCT SIZE	OBD
OAL	O/A INTAKE LOUVER	LOUVER	RUSKIN EME520MD	---	WMS

GENERAL AND HVAC CONTRACTOR TO COORDINATE FINISH AND COLOR OF ALL AIR DISTRIBUTION PRODUCTS PRIOR TO ORDERING.

TESTING AND BALANCING NOTES

1. AIR DISTRIBUTION SYSTEM TESTING, ADJUSTING AND BALANCING SHALL BE PERFORMED ACCORDING TO FLORIDA BUILDING CODE, CHAPTER 13, SECTION 13.410.AB.4
2. TEST, ADJUSTMENT AND SYSTEM BALANCE SHALL BE PERFORMED BY AN ENGINEER LICENSED IN THE STATE OR A COMPANY OR INDIVIDUAL HOLDING A CURRENT CERTIFICATION FROM A RECOGNIZED TESTING AND BALANCING ORGANIZATION. LICENSED MECHANICAL CONTRATORS ARE ALLOWED TO TEST AND BALANCE SYSTEMS OF 15,000 BTUH OR LESS IN COOLING OR HEATING CAPACITY.
3. COOLING OR HEATING SYSTEM CAPACITIES OF 65,000 BTUH OR LESS ARE EXCEMPT FROM THE TEST AND BALANCE REQUIREMENT LISTED IN THE CODE.
4. ALL HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS. A WRITTEN BALANCE REPORT SHALL BE PROVIDED TO THE OWNER FOR HVAC SYSTEMS SERVING ZONES WITH A TOTAL AIR CONDITIONING AREA EXCEDING 5,000 SQFT OR OTHERWISE REQUESTED BY THE OWNER FOR SMALLER SPACES.
5. BALANCING PROCEDURES SHALL BE IN ACCORDANCE WITH THE NEBB PROCEDURAL STANDARDS, THE AABC NATIONAL STANDARDS, OR EQUIVALENT PROCEDURES.

NOTE:
DRAWINGS/DETAILS ARE TO BE DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, AND CHECK/COORDINATE DRAWINGS OF ALL TRADES

SPLIT SYSTEM SCHEDULE

MARK	AREA SERVED	MODEL NO.	CFM	ESP	AIR HANDLING UNIT: FAN HP	HEATER KW	HEATER STEP	TUBE DIAM. IN.	ROWS	FPI	FACE VEL. FPM	WT LBS	UNIT MCA	UNIT FUSE	UNIT VOLTS-PH-HZ	DIMENSIONS L X W X H	MARK	AIR COOLED CONDENSING UNIT: MODEL NO.	WT LBS	ELECTRICAL VOLTS-PH-HZ	COMPRESSOR QTY.	COMPRESSOR RLA	COMPRESSOR LRA	FAN QTY	FAN FLA	UNIT MCA	MAX FUSE	SYSTEM DATA: CAPACITY TMBH	CAPACITY SMBH	EER	REF. LINES SUCTION	REF. LINES LIQUID	DIMENSIONS L X D X H
AHU-1	SEE PLANS	1 / 39L06	2090.0	0.5	1.5	10.0	1.0	1/2	6	11	443	507	35	35	208-3-60	33X46X53	CU-1A CU-1B	24ABB348A005 24ABB348A005	186.0	208-3-60	1	13.1	83.1	1	1.4	17.8	30	89.31	50.31	11.0	7/8	3/8	32X32X36

SPLIT SYSTEM NOTES:

1. OUTSIDE AIR DESIGN CONDITIONS: 92°FDB – 78°FWB.
2. PROVIDE A/C UNITS WITH HEATING/COOLING CARRIER PROGRAMMABLE THERMOSTAT AND HUMIDITY SENSOR.
3. PROVIDE MODULATING HOT GAS REHEAT DUAL CIRCUITED WITH DUAL CONDENSING UNITS.
4. PROVIDE CONDENSING UNIT W/ BLYGOLD CONDENSER COIL.
5. PROVIDE DOUBLE WALL AHU.
6. SIZE AND RUN REFRIGERANT PIPING AS MANUFACTURER'S LATEST PUBLISHED RECOMMENDATIONS.
7. PROVIDE SMOKE DETECTOR AS SHOWN ON PLANS.
8. PROVIDE FILTER RACK FOR AHU.
9. PROVIDE 2" FILTER-PLEATED MERV 8.
10. INSTALL CHEMICAL DRYER AND STRAINER IN REFRIGERANT LIQUID LINES.
11. PROVIDE BUILT-IN DISCONNECT WITH ALL AIR HANDLING UNITS.
12. INSULATE REFRIGERANT SUCTION LINE WITH 3/4" FIRE RETARDANT ARMAFLEX.
13. PROVIDE HURRICANE KIT FOR CONDENSING UNIT INSTALLATION.

CARRIER EQUIPMENT IS THE BASE OF DESIGN AND COMPARISON. EQUIVALENT SYSTEMS ARE ACCEPTABLE UPON APPROVAL FROM ENGINEER. 1

MECHANICAL INDEX

	DRAWING	
1	MO-1	MECHANICAL INDEX, SCHEDULES & NOTES
2	M1-0	MECHANICAL PLAN, LEGEND AND DETAILS

SHOP DRAWING REQUIREMENTS

1. CONTRACTOR SHALL SUBMIT 6 COPIES OF COMPLETED SHOP DRAWINGS, TOGETHER AT ONE TIME AND MUST COME THROUGH THE ARCHITECT. ALL SUBMITTALS SHALL BE MADE WITHIN 30 DAYS OF NOTICE TO PROCEED.
2. ALL SUBMITTALS MUST CLEARLY INDICATE EXACTLY WHICH ITEMS ARE BEING PROPOSED FOR USE. IF NOT, THE SUBMITTAL SHALL BE REJECTED.
3. SUBSTITUTIONS SHALL BE LIMITED TO ONE OF THE ALTERNATES LISTED IN THE CONSTRUCTION DOCUMENTS. PRODUCTS CONSIDERED TO BE EQUAL SHALL BE REVIEWED AND ACCEPTED BY THE ENGINEER, ARCHITECT AND OWNER (10) DAYS PRIOR TO BID DATE.
4. THE CONTRACTOR ASSUMES ALL DESIGN RESPONSIBILITY AND ALL FINANCIAL RISKS FOR PROCEEDING PRIOR TO SHOP DRAWINGS PROCESSING, AND ON ANY ITEM OR WORK THAT IS AT VARIANCE TO THE CONSTRUCTION DOCUMENTS.
5. SHOP DRAWINGS AND SUBMITTALS FOR EACH ITEM SHALL BE REVIEWED NO MORE THAN TWICE. A THIRD SUBMITTAL ON AN ITEM MUST BE ACCOMPANIED BY A PURCHASE ORDER FROM THE CONTRACTOR OR IT SHALL BE REJECTED.
6. CIRCUMSTANCES NECESSITATING A REVISION TO THE PERMITTED DOCUMENTS NOT PROCESSED PRIOR TO INSTALLATION MAY NOT BE ACCEPTED. IF ACCEPTED IT MUST BE LEGIBLE, ACCURATE AND ACCOMPANIED BY A PURCHASE ORDER ORDER FROM THE CONTRACTOR. THE REVISION SHALL BE CHARGED TO THE CONTRACTOR AND DELIVERED TO HIM ON A C.O.D. BASIS.
7. SUBSTITUTIONS FROM THE BASE DESIGN OR VARIATIONS TO THE PERMITTED CONTRACT DOCUMENTS, WHETHER RESULTING FROM PROCESSED SHOP DRAWINGS OR NOT, THAT RESULT IN REQUIREMENTS IN LETTERS OF AUTHORIZATION AND/OR PERMIT CONTRACT DOCUMENT CHANGES MANDATED BY THE AUTHORITY HAVING JURISDICTION WILL NOT BE MADE BY THIS OFFICE UNLESS ACCOMPANIED BY A PURCHASE ORDER FROM THE CONTRACTOR, AND RELEASED ON A C.O.D. BASIS.

COORDINATION NOTES

1. A/C CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE HIS WORK FOR SIZE, LOCATION, CLEARANCE, ACCESS AND ELECTRICAL CHARACTERISTICS WITH ALL OTHER TRADES AND TO PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR REVIEW BEFORE INSTALLATION OF DUCTWORK OR EQUIPMENT. SHOP DRAWING WILL INCLUDE BEAM OR STRUCTURE ELEVATION & REQUIRED EQUIPMENT ACCESS AREAS.
2. WALL, ROOF, AND CEILING OPENINGS INDICATED ON CONTRACTOR DRAWINGS ARE NOMINAL DIMENSIONS ONLY AND ALL DUCT, PIPE OR EQUIPMENT PENETRATIONS SHALL BE SLEEVED AND FIRE RATED AS REQUIRED, ADJUST OPENINGS
3. COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH LIGHTS, SPRINKLERS AND ARCHITECTURAL ELEMENTS.
4. COORDINATE LOCATION OF A/C UNITS, THERMOSTATS, FANS AND DUCTWORK WITH BUILDING STRUCTURE AND OTHER TRADES SO THAT NO INTERFERENCES OCCUR.
5. IN GENERAL, DUCT OFFSETS HAVE NOT BEEN SHOWN. A/C CONTRACTOR TO COORDINATE THESE AS REQUIRED.
6. MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCH. PLUMBING, ELECTRICAL AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT.

APPLICABLE CODES AND STANDARDS

1. FLORIDA EXISTING BUILDING CODE (2007) W/ 2009 SUPPLEMENT.
2. FLORIDA BUILDING CODE (2007) W/ 2009 SUPPLEMENT.
3. FLORIDA MECHANICAL CODE (2007) W/ 2009 SUPPLEMENT.
4. NFPA 90-A (2002) STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS.
5. NFPA 90-B (2006) STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS.
6. ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION, FBC 2007 CHAPTER 13.
7. FLORIDA STATUTES, BUILDING CONSTRUCTION STANDARDS, CHAPTER 553 (INCLUDING ANSI AND NFPA STANDARDS REFRENCED)

REQUIREMENTS FOR SUBMITTALS

IF CONTRACTOR SUBMITS A DIFFERENT EQUIPMENT MANUFACTURER-MODEL, THE CONTRACTOR SHALL ASSURE THAT THE SUBSTITUTION HAS EQUAL OR BETTER ENERGY AND INDOOR ENVIRONMENTAL PERFORMANCE WHEN COMPARED TO THE EQUIPMENT SPECIFIED ON THE ORIGINAL CONSTRUCTION DOCUMENT.

THE PROPOSED SUBSTITUTION SHALL ALSO BE CONSISTENT WITH THE FOLLOWING REQUIREMENTS:
- CAPACITY
- EFFICIENCY
- REFRIGERANT
- ELECTRICAL DATA
- WEIGHT
- AUTOMATIC CONTROL
- ANY SPECIAL NOTE OR ACCESSORY LISTED ON SCHEDULES

HVAC DESIGN REQUIRES	YES	NO
DUCT SMOKE DETECTOR	•	
FIRE DAMPER(S)		•
SMOKE DAMPER(S)		•
FIRE RATED ENCLOSURE		•
FIRE RATED ROOF/ FLOOR CEILING ASSEMBLY		•
FIRE STOPPING		•
SMOKE CONTROL		•

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Revisions

Date:	No:
02/20/12	1 OWNER'S CHANGE

Scale: AS SHOWN

Project Number:
Drawn by: JP
Date:

Sheet:
MO-1