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HVAC GENERAL NOTES

- REFER TO ALL OTHER DRAWINGS AND SPECIFICATIONS, AND BASE BUILDING DRAWINGS & SPECIFICATIONS AND BE RESPONSIBLE FOR ALL APPLICABLE PROVISIONS THEREIN.
- FURNISH AND INSTALL ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE SYSTEM. ANY APPLIANCES OR MATERIALS OBVIOUSLY A PART OF THE SYSTEM AND NECESSARY FOR ITS PROPER OPERATION, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL.
- WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, AND NFPA STANDARD 90A.
- DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY FITTING AND DETAIL. INSTALL DUCTS, EQUIPMENT AND CONTROLS IN A NEAT WORKMANLIKE MANNER, AND IN ACCORDANCE WITH GOOD PRACTICE FOR A COMPLETE WORKABLE INSTALLATION. AVOID CONFLICT WITH OTHER WORK. MAKE ADEQUATE PROVISIONS FOR PREVENTING NOISE AND VIBRATION. ARRANGE EQUIPMENT IN THE AVAILABLE SPACE IN A MANNER TO MAKE ALL WORKING PARTS ACCESSIBLE FOR MAINTENANCE AND SERVICE.
- PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE.
- EQUIPMENT AND MATERIALS SHALL BE NEW, UNLESS OTHERWISE SPECIFIED.
- EXACT LOCATION OF ALL SUPPLY DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST REGISTERS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
- ELECTRICAL – DISCONNECTS AND/OR BREAKERS, POWER WIRING THRU MOTOR CONTROL DEVICES TO ALL MOTORS OR TO JUNCTION BOXES OF FACTORY WIRED EQUIPMENT ARE PROVIDED UNDER THE ELECTRICAL DIVISION OF WORK. MECHANICAL WORK SHALL INCLUDE CONTROL AND INTERLOCK WIRING REQUIRED FOR PROPER OPERATION OF THE SYSTEM, AND SHALL INCLUDE FURNISHING OF MAGNETIC STARTERS OR CONTACTORS WHERE REQUIRED.
- COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT BEFORE ORDERING.
- PROVIDE U.L. LISTED HEAVY GLASS FIBER FABRIC DUCT CONNECTOR AT FAN CONNECTORS; FABRIC CONNECTORS SHALL BE AT LEAST 4" LONG AND HAVE METAL COLLAR AT EACH END; ALLOW AT LEAST ONE INCH SLACK TO ELIMINATE VIBRATION TRANSMISSION.
- PORTIONS OF DUCTWORK VISIBLE THROUGH SUPPLY AND RETURN AIR OPENINGS SHALL BE PAINTED FLAT BLACK.
- LOCATIONS SHOWN FOR EQUIPMENT ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL COORDINATE WITH THE FIELD CONDITIONS FOR THE EXACT LOCATION AND MODIFY DUCT SYSTEM ACCORDINGLY.
- CONTRACTOR SHALL FIELD VERIFY AVAILABLE SPACE FOR DUCTWORK BEFORE FABRICATING. CONTRACTOR SHALL MODIFY DUCTWORK IN APPROVED MANNER TO FIT AVAILABLE FIELD CONDITIONS.
- SEAL DUCTWORK & INSULATION WITH GLASS FABRIC AND MASTIC. NO EXCEPTIONS ALLOWED.
- WEATHER PROTECTION OF EQUIPMENT AND MATERIALS SHALL BE THE HVAC CONTRACTOR'S RESPONSIBILITY.
- COORDINATE ALL WORK UNDER THIS DIVISION WITH WORK UNDER OTHER DIVISIONS. PROVIDE ADJUSTMENTS AS NECESSARY FOR EQUIPMENT, APPARATUS, DUCTWORK, ETC., ALL ITEMS MOUNTED AT OR BELOW THE CEILING, AND ANY ITEM PENETRATING THE CEILING, SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- PROTECTION OF WORK DURING CONSTRUCTION PROVIDE PROTECTIVE COVERS, SKIDS, PLUGS OR CAPS TO PROTECT EQUIPMENT AND MATERIALS FROM DAMAGE AND DETERIORATION DURING CONSTRUCTION. PROTECT EXPOSED COILS WITH PLYWOOD OR OTHER SUITABLE RIGID COVERS TO AVOID DAMAGE TO FINS. PROVIDE COVERS TO ELIMINATE DUST COLLECTION WITHIN DUCTWORK AND/OR EQUIPMENT. DO NOT OPERATE EQUIPMENT DURING CONSTRUCTION.
- ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR PROPER MAINTENANCE AND SERVICE IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR ALL DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF FLOORS AND WALLS PERTAINING TO HIS WORK, UNLESS NOTED OTHERWISE.
- ELECTRICAL CHARACTERISTICS SHOWN ON SCHEDULES ARE DESIGN VALUES ONLY AND SHALL BE VERIFIED AND COORDINATED PRIOR TO ORDERING EQUIPMENT.
- ALL DUCTS TO BE RUN CONCEALED UNLESS NOTED OTHERWISE.
- DUCT SIZES SHOWN ON DRAWINGS ARE INTERIOR DIMENSIONS. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- 4" CONCRETE MAINTENANCE PAD BY HVAC CONTRACTOR.
- COORDINATE ALL DUCT THROUGH WALL PENETRATION WITH ARCHITECTURAL WITH RESPECT TO ACOUSTICAL SEALANT, SMOKE SEALANT. PROVIDE HANGAR ON EACH SIDE OF PARTITION AT THESE CONDITIONS

MECHANICAL LEGEND:

DDC	DIRECT DIGITAL CONTROL
EF-1	EXHAUST FAN DESIGNATION
AHU-1	AIR HANDLING UNIT DESIGNATION
VAV-1	VAV BOX DESIGNATION
BFP	BACK FLOW PREVENTER
PRV	PRESSURE REDUCING VALVE
A 250 9x9	DIFFUSER DESIGNATION (TYPE, CFM, NECK SIZE)
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
CDWS	CONDENSER WATER RETURN
CDWR	CONDENSER WATER SUPPLY
	GATE VALVE
	BALANCING VALVE
	PRESSURE GAUGE
	THERMOMETER
	PLUG VALVE
	UNION
	STRAINER
	CHECK VALVE
	SENSOR (TEMP & HUMIDITY)
	DIFFUSER, DIRECTION OF FLOW AS INDICATED
	SIDEWALL REGISTER/GRILLE
	RETURN AIR OUTLET
	EXHAUST OUTLET
20 x 8	DUCT SIZE, FIRST NO. IS SIDE SHOWN
	ELBOW WITH TURNING VANE
	MANUAL VOLUME DAMPER
	3 WAY MIXING VALVE, ELECTRIC MODULATION VALVE
	2 WAY MIXING VALVE, ELECTRIC MODULATION VALVE
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
VAV	VARIABLE AIR VOLUME
OA	OUTSIDE AIR
RA	RETURN AIR
VFD	VARIABLE FREQUENCY DRIVE
UNO	UNLESS NOTED OTHERWISE
BV	BALANCING VALVE

DESIGN CONDITIONS

SEASON	OUTSIDE	INSIDE
SUMMER	95°F DB, 82°F WB	75°F DB, 45% RH
WINTER	27°F	72°F

NOTE:

BASE BID:
WORK INCLUDES GENERAL CONSTRUCTION OF 30150 SQUARE FEET BUILDING AND ALL WORK INCLUDED IN DRAWINGS AND SPECIFICATIONS.

DEDUCTIVE ALTERNATIVE NO. 10:
CONVERT APPROXIMATELY 1900 SQUARE FEET OF BUILDING AREA TO COVERED PORCH PER SHEETS AS10-A1, AS301-A1, EL101-A10, EP101-A10, EP602, EP603, MH001A10, AND MH007A10

DEDUCTIVE ALTERNATIVE NO. 11:
REPLACE THE CONTRACTOR-FURNISHED AIR-COOLED CHILLER (60 TON) WITH A GOVERNMENT-FURNISHED, CONTRACTOR INSTALLED AIR-COOLED CHILLER PER SHEETS MH007A11 AND MP001A11.

		CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title MECHANICAL GENERAL NOTES & LEGEND		Project Title CONSTRUCT VA OUTPATIENT CLINIC, PANAMA CITY		Project Number 520-326		Office of Construction and Facilities Management	
		CIVIL: KENNETH HORNE & ASSOCIATES 7201 NORTH 9TH AVENUE, STE. 6 PENSACOLA, FLORIDA 32504 PH: (850) 471-9005 FX: (850) 471-0093		COMM/DS: SCHMIDT CONSULTING GROUP, INC. 40 S. PALAFOX PLACE, STE. 300 PENSACOLA, FLORIDA 32502 PH: (850) 438-0050 FX: (850) 432-8631				Approved Project Director		Location PANAMA CITY, FLORIDA		Building Number -			
		LANDSCAPE ARCHITECT: CSA GROUP, INC. 6300 PICCADILLY SQUARE DRIVE MOBILE, ALABAMA 36609 PH: (251) 344-4023 FX: (251) 344-4052		SURVEYORS: KOI TECHNOLOGIES, INC. 10401 HIGHLAND MANOR DRIVE, SUITE 120 TAMPA, FLORIDA 33610 PH: (813) 740-2300						Date APRIL 2013		Checked GL			
		Revisions:		Date								Drawing Number MOO1 Dwg 1 of 11			