



AIR HANDLING UNIT SCHEDULE																																			
UNIT NO.	LOCATION	TOTAL OA CFM	FAN DATA				COOLING DATA								HEATING DATA								PRE-FILTER		FINAL FILTER		TYPICAL UNIT MANUF. & MODEL NO.	NOTES:							
			OV	RPM	TOTAL S.P.	H.P.	COOLING AIR DATA				WATER DATA				AIR DATA				STEAM DATA				TYPE	THICK-NESS	MIN. EFF.	TYPE			THICK-NESS	MIN. EFF.					
							ENT. TEMP. °F	WB	DB	WB	P.D. (IN.)	GPM	TEMP. ENT. °F	TEMP. LGV. °F	P.D. (FT.)	MIN. FA. FT.	MIN. ROWS	TOTAL MBH	TEMP. ENT. °F	TEMP. LGV. °F	P.D. (IN.)	FLOW									ENTERING PRESS.	PD (FT)	MIN. FA. FT.	MIN. ROWS	
AHU-121	INT. MECH.	5200	-	2750	6.5	15	284	90	71	55	49	-	60	45	55	13	105	6	370	-10	55	0.2	390	10	0.49	67	1	PLEATED	2"	30%	BAG	12"	95%	TRANE MCC	-

VAV AIR TERMINAL SCHEDULE											
TAG	RANGE CFM	INLET SIZE #	MIN. CFM	INLET SP IN WG		MAX. PRESS. DROP IN HG	HEATING CAPACITY		MANUF. & MODEL NO.	NOTES:	
				MIN	MAX		GPM	EAT, °F			
VAV-1	300-600	7"	300	0.1	0.5	0.25	1.2	55	85	TRANE, VCVF	1, 2
VAV-2	100-400	6"	150	0.1	0.5	0.25	1	55	85	TRANE, VCVF	1, 2

NOTES:
1. SEE DRAWINGS FOR MAXIMUM AIR FLOW.
2. PROVIDE W/ SUPPLY ATTENUATOR.

FAN SCHEDULE									
UNIT NO.	LOCATION	TYPE	CFM	SP H2O	HP	RPM	ELECTRIC	TYPICAL UNIT MANUF. & MODEL NO.	NOTES:
EF-1	ROOF	CENTRIFUGAL	3200	4.0	5	2135	480, 3PH	GREENHECK, MODEL SWB-16	1
EF-2	ROOF	CENTRIFUGAL	3000	3.0	3	1876	480, 3PH	GREENHECK, MODEL SWB-16	1

NOTES:
1. PROVIDE WITH WEATHER HOOD, DISCONNECT SWITCH, DRAIN CONNECTION, ISOLATION MOUNTS, AND PROTECTIVE COATING.

DIFFUSER, GRILLE & REGISTER SCHEDULE					
UNIT NO.	NECK SIZE IN INCHES	CFM RANGE	TYPE	TYPICAL UNIT MANUF. & MODEL NO.	NOTES:
SD-1	8"	0-200	CEILING	TITUS TMS	
SD-2	10"	200-400	CEILING	TITUS TMS	
SG-1	6"x12"	0-150	SIDEWALL	TITUS TMS	
RG-1	6"x12"	0-200	CEILING	TITUS 355	
RG-2	10"x10"	200-450	CEILING	TITUS 355	
EG-1	6"x12"	0-150	CEILING	TITUS 50F	

NOTES:

GENERAL NOTES:

- THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND EXACT LOCATIONS AND ARRANGEMENTS OF EXIST./NEW EQUIPMENT, DUCTWORK, PIPING AND OTHER COMPONENTS SHALL BE DETERMINED IN THE FIELD WITH DUE CONSIDERATION OF STRUCTURAL, ELECTRICAL AND ARCHITECTURAL SYSTEMS. EXISTING STRUCTURAL SYSTEMS SHALL NOT BE MODIFIED WITHOUT THE EXPRESS PERMISSION OF THE ARCHITECT.
- THE PROJECT SHALL BE PHASED IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED PHASING PLAN. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE HOSPITAL/ARCHITECT FOR THE SEQUENCING AND TIMING OF OPERATIONS PRIOR TO COMMENCING WORK. SEE SPECIFICATIONS.
- CONTRACTOR IS TO MAINTAIN HVAC AND PLUMBING SERVICE TO ROOMS OUTSIDE THE PROJECT SCOPE OF WORK AND PHASING SCHEDULE. IF INTERRUPTION OF SERVICE IS REQUIRED COORDINATE SHUTDOWN WITH HOSPITAL. NOTIFY THE HOSPITAL A MINIMUM OF 5 DAYS PRIOR TO SHUT-DOWN.
- CARE SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SYSTEMS AND SURFACES TO REMAIN. RESTORE DAMAGED AREAS THAT ARE BEYOND THE SCOPE OF THIS CONTRACT TO THEIR ORIGINAL CONDITION.
- WHERE INDICATED ON THE DRAWINGS, REMOVE OR RELOCATE EXISTING COMPONENTS AS REQUIRED TO ACCOMMODATE THE NEW WORK. REMOVALS SHALL INCLUDE ALL ASSOCIATED OFF-SITE DISPOSAL COSTS.
- COORDINATE REMOVALS AND RELOCATION'S INCLUDING SELECTIVE CUTTING AND PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ELECTRICAL.
- MOST PARTITIONS ARE FULL HEIGHT AND REQUIRE DUCT PENETRATIONS TO BE SEALED, SEE ARCHITECTURAL DWGS FOR PARTITION HEIGHTS. DUCTWORK SHOWN FOR CLARITY THAT MAY RUN PARALLEL TO WALL PARTITIONS WILL REQUIRE LOCATING IN THE FIELD TO MINIMIZE CONFLICT WITH PARTITIONS.
- COORDINATE THE LOCATIONS OF ALL WALL MOUNTED TEMPERATURE SENSORS WITH OWNERS FINAL EQUIPMENT/FURNITURE LAYOUT.
- PROVIDE SEISMIC RESTRAINTS PER SPECIFICATION 15601.
- AT THE END OF EACH WORKING DAY, THE CONSTRUCTION SITE SHALL BE LEFT IN A CLEAN AND NEAT CONDITION.
- INSTALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND GOOD PRACTICE NORMAL TO THE TRADE. INSTALLATION SHALL INCLUDE PROVISIONS FOR ACCESS TO NORMAL MAINTENANCE ITEMS SUCH AS BELTS, BEARINGS, FILTERS AND MOTORS. PROVIDE ADEQUATE STRUCTURAL SUPPORTS AND SECURE MOUNTING METHODS WITH PROVISIONS FOR VIBRATION ISOLATION AND EXPANSION WHERE REQUIRED.
- PROVIDE VOLUME DAMPERS DOWN STREAM OF VAV BOXES AT EACH BRANCH FROM MAIN DUCTWORK AND DUCT RUNNOUTS. PROVIDE OPPOSED BLADE DAMPERS AT EACH NECK TO AN INDIVIDUAL REGISTER OR DIFFUSER IN SUPPLY, RETURN AND EXHAUST DUCTS IRRESPECTIVE OF WHETHER OR NOT A DAMPER IS INDICATED ON THE PLANS. PROVIDE FIRE DAMPER AT ALL DUCTWORK FLOOR PENETRATIONS.
- PIPING AND DUCTWORK SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- PROVIDE DUCTWORK WITH OFFSETS AND TRANSITIONS AS REQUIRED TO FIT UNDER STRUCTURAL STEEL OR OTHER OBSTRUCTIONS. FLAT OVAL OR ROUND SIZES MAY BE USED INTERCHANGEABLY BY THE CONTRACTOR. MAINTAIN DUCT CROSS SECTIONAL AREA.

ABBREVIATIONS:

A AIR	FU FIXTURE UNIT
AAV AUTO AIR VENT	FSD COMBINATION FIRE SMOKE DAMPER
ABV ABOVE	GC GENERAL CONTRACTOR
AD DUCT ACCESS DOOR	GPM GALLONS PER MINUTE
AFF ABOVE FINISH FLOOR	HTR HEATER
AFG ABOVE FINISH GRADE	HW HOT WATER
AP ACCESS PANEL	HWR HOT WATER RETURN
AS TANGENTIAL AIR SEPERATOR	HWS HOT WATER SUPPLY
BEL BELOW	INV INVERT
BFP BACK FLOW PREVENTER	IR INDIRECT WASTE
BS BELOW SLAB	LPC LOW PRESSURE CONDENSATE
CD CONDENSATE DRAIN	LPS LOW PRESSURE STEAM
CLG CEILING	MBH 1000 BTU/HR.
COL COLUMN	MD MOTORIZED DAMPER
CONN CONNECTION	NOM NOMINAL
CW COLD WATER	NTS NOT TO SCALE
CWR CHILLED WATER RETURN	PRV PRESSURE REDUCING VALVE
CWS CHILLED WATER SUPPLY	RD ROOF DRAIN
D DRAIN	RED REDUCER
DA DIAMETER	RV RELIEF VALVE
DN DOWN	SA SHOCK ABSORBER
DWG DRAWING	SD STORM DRAIN
EL ELEVATION	SDR SMOKE DAMPER
EXIST EXISTING	SPEC SPECIFICATION
FC FLEXIBLE CONNECTION	TCP TEMPERATURE CONTROL PANEL
FD FLOOR DRAIN	TYP TYPICAL
FDR FIRE DAMPER	U.G. UNDER GRADE
FLR FLOOR	U.S. UNDER SLAB
FIN FINISH	VB VACUUM BREAKER
FPFB FREEZEPROOF HOSE BIBB	VIR VENT THRU ROOF
FT FOOT	W/ WITH
FTR FINTUBE RADIATION	WH WATER HEATER

LEGEND	
SYMBOL	DESCRIPTION
	CIRCUIT BALANCE VALVE
	AUTOMATIC FLOW CONTROL VALVE
	CHECK VALVE
	REDUCED PRESSURE BACKFLOW PREVENTOR
	BALL VALVE
	OS AND Y GATE VALVE
	BUTTERFLY VALVE
	THERMOMETER W/IMMERSION WELL
	PRESSURE GAUGE W/PETCOCK
	GRILLE, REGISTER OR DIFFUSER TAG
	ELECTRONIC TEMPERATURE SENSOR
	THERMOSTATIC RADIATOR VALVE AND (NON-ELECTRIC) ACTUATOR
	PNEUMATIC TEMPERATURE SENSOR
	EXISTING PNEUMATIC TEMPERATURE SENSOR
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	STRAINER W/BLOWDOWN, BRASS CAP AND CHAIN
	3/4" BALL VALVE W/HOSE END, BRASS CAP, CHAIN
	WATER HAMMER ARRESTOR
	DIRECTION OF FLOW
	UNION
	PRESSURE REDUCING VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	COLD WATER PIPING
	HOT WATER PIPING
	FLOW SWITCH
	ELECTRONIC TEMPERATURE SENSOR
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION JOINT
	GAS PIPING
	N. C. NORMALLY-CLOSED
	N. O. NORMALLY-OPENED
	DUCT STATIC PRESSURE SENSOR
	DUCT MOUNTED SMOKE DETECTOR, MOUNTED BY HVAC CONTRACTOR SUPPLIED AND WIRED BY ELECTRICAL CONTRACTOR
	POINT OF CONNECTION TO EXISTING
	NEW DUCT
	EXISTING DUCT WORK TO BE REMOVED
	EXISTING DUCT WORK TO REMAIN
	NEW FLEXIBLE DUCT

NOTE: SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

