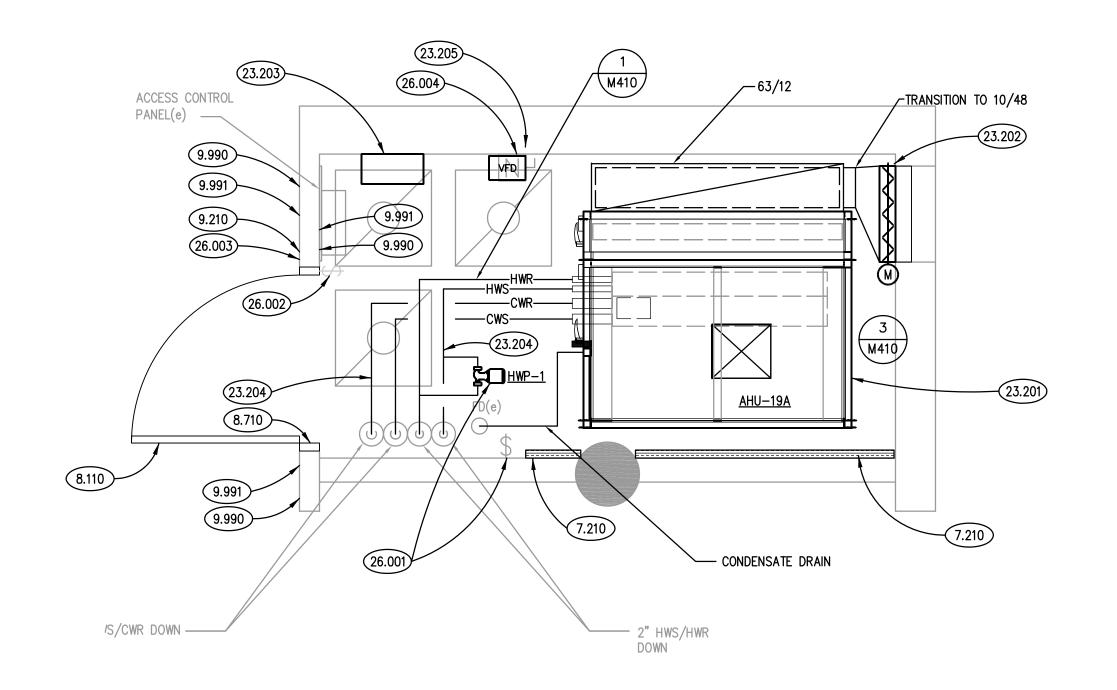
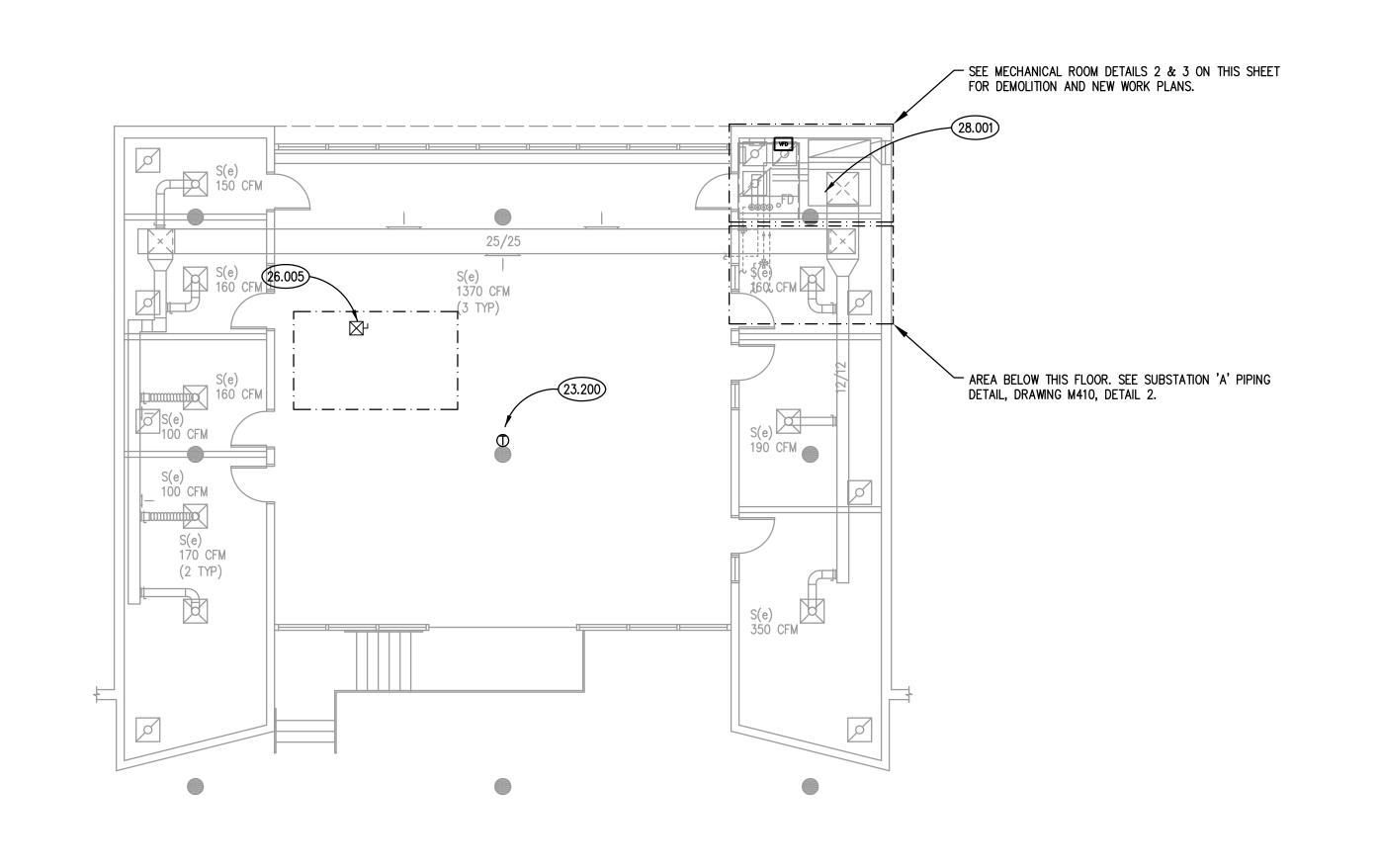


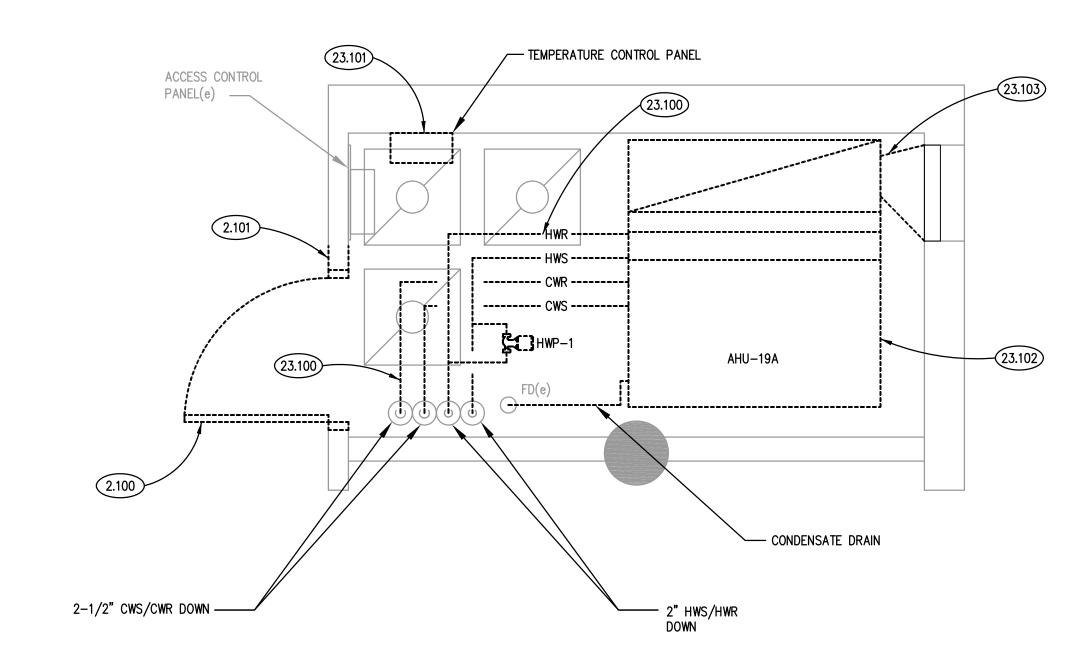
AIR HANDLING UNIT SCHEDULE																		
MARK	AIR FLOW	MINIMUM OA	COOLING						HEATING				SUPPLY	EXTERNAL	ELECTRICAL		MODEL	NOTES
	(CFM)	(CFM)		LVG AIR TEMP (db / wb °F)	SENS CAP (MBH)	TOTAL CAP (MBH)	WATER FLOW RATE (GPM)	WATER PRES DROP (FT)	EWT / LWT (°F)	EAT / LAT (°F)	WATER FLOW RATE (GPM)	WATER PRESS DROP (FT)	FAN (HP)	STATIC PRESS (IN WG)	V/PH/HZ	MCA		1
AHU-19A	5820	500	84.4 / 69.3	53.1 / 53.1	191.5	280.8	55.0	6.9	180 / 161	29.0 / 93.1	47.3	5.8	7.5	2.0	460/3/60	12.1	39M	1
NOTES 1. MOD	DEL BASED ON	CARRIER.																

PUMP SCHEDULE											
MARK	WATER FLOW RATE (GPM)	HEAD (FT)	TYPE	MOTOR POWER (HP)	ELECTRICAL (V/PH/HZ)	MOTOR SPEED (RPM)	SERVICE	MODEL	NOTES		
HWP-1	10	10	INLINE	1/12	115/1/60	2650	AHU-19A	PL-30	1		
NOTES 1. MODEL BASED ON BELL & GOSSETT.											





PARTIAL FIRST FLOOR PLAN



MECHANICAL ROOM DEMOLITION DETAIL
SCALE: 1/2" = 1'-0"

KEYPLAN

GENERAL NOTES

EQUIPMENT, PIPING, DUCTWORK, ETC.

- REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
- ALL PIPING AND DUCTWORK IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL REQUIRED FITTINGS, OFFSETS, DROPS AND RISES. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM. COORDINATE WITH OTHER TRADES FOR SPACE AVAILABLE AND RELATIVE LOCATIONS OF
- ALL TAPES AND MASTICS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A SHALL BE MARKED ACCORDINGLY. ALL TAPES AND MASTICS USED TO SEAL FLEXIBLE DUCTS AND AIR CONNECTORS SHALL
- COMPLY WITH UL 181B AND MARKED ACCORDINGLY.
- 4. THERMOSTATIC CONTROLS OF EQUIPMENT SHALL HAVE A 5° F DEADBAND.
- 5. GENERALLY, SMALL DIAMETER PIPE RUNS FROM DRIPS, CONDENSATE PANS AND OTHER SERVICES ARE NOT SHOWN BUT MUST BE PROVIDED.
- 6. SPACE ALLOCATION, COORDINATION WITH ELECTRICAL, ARCHITECTURAL & OTHER MECHANICAL COMPONENTS HAVE BEEN MADE WITH RESPECT TO ALL EQUIPMENT SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS OF THE FIRST NAMED MANUFACTURER ONLY. OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS AND AFOREMENTIONED COORDINATION.
- DO NOT CUT THROUGH THE MASONRY BOND BEAMS OR OTHER STRUCTURAL ELEMENT WHEN INSTALLING OPENINGS REQUIRED FOR ALL DUCTWORK, PIPING, CONDUITS OR OTHER WORK. COORDINATE WITH THE STRUCTURAL DRAWINGS AND MASON CONTRACTOR FOR ALL BOND BEAM AND STRUCTURAL ELEMENT LOCATIONS. CONTRACTOR CUTTING THROUGH OR OTHERWISE DAMAGING THESE ELEMENTS WILL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES AND SUBSEQUENT RETRO-FIT/REINFORCING DEEMED NECESSARY TO REINSTATE THE CONTINUITY OF THE
- B. OBTAIN AND PAY ALL COSTS FOR PERMITS, LICENSES, CERTIFICATE FILING AND ALL INSPECTIONS BY AUTHORITIES

KEYNOTES

MECHANICAL ROOM NEW WORK PLAN
SCALE: 1/2" = 1'-0"

- 2.100 DEMOLISH HOLLOW METAL DOOR AND FRAME AND DISCARD. SALVAGE ALL EXISTING DOOR HARDWARE INCLUDING HINGES, CARD ACCESS DEVICES, CLOSER, ARMORED DOOR LOOP, ELECTRIFIED LOCKSET, STRIKE PLATE,
- ETC. AND SAVE FOR REINSTALLATION ON NEW HOLLOW METAL DOOR AND FRAME. 2.101 DEMOLISH A PORTION OF THE 5" THICK GYPSUM BOARD WALL CONSTRUCTION TO ALLOW FOR A NEW, WIDER DOOR FRAME TO BE INSTALLED. RELOCATE SECURITY AND ELECTRICAL DEVICES AS REQUIRED TO ACCOMMODATE THE NEW DOOR OPENING SIZE.
- 7.210 FURNISH AND INSTALL FULL HEIGHT TECTUM SOUND ABSORBING WALL PANELS IN AREA INDICATED. PANELS SHALL BE 2 INCHES THICK AND FASTENED DIRECTLY TO THE EXISTING GYPSUM BOARD WALL WITH CONSTRUCTION ADHESIVE AND DRYWALL SCREWS WITH FINISHED WASHERS SPACED AT 24" O.C. OR AS REQUIRED TO ANCHOR DIRECTLY INTO EACH VERTICAL METAL STUD. FACTORY WHITE FINISH ACCEPTABLE.
- 8.110 NEW 90 MINUTE FLUSH HOLLOW METAL DOOR FRAME AND DOOR WITH NO GLAZING. DOOR TO BE 3'-6" WIDE X 7'-0" TALL X 16 GAGE, MODEL 1 - FULL FLUSH SEAMLESS DOOR. FRAME TO BE 16 GAGE, TYPE 1 -FULLY WELDED. DOOR AND FRAME TO BE MANUFACTURED BY, ASSA ABLOY, CURRIES OR STEELCRAFT OR
- EQUAL. PRIME AND TWO COAT SEMI-GLOSS ENAMEL PAINT TO MATCH EXISTING DOOR AND FRAME COLOR. 8.710 RE-INSTALL EXISTING DOOR HARDWARE TO INCLUDE, ELECTRIFIED LOCKSET, ARMORED DOOR LOOP, CARD ACCESS READER, HINGES, CLOSER, STRIKE PLATES, ETC. FOR A FULLY FUNCTIONING SYSTEM. CONFIRM

CARD ACCESS DEVICE IS IN WORKING CONDITION AFTER INSTALLATION.

COORDINATE WITH OWNER FOR REMOVAL OF ANY GRAPHICS IN JCI SYSTEM.

- 9.210 5 INCH THICK GYPSUM BOARD DRYWALL INFILL TO MATCH EXISTING WALL CONSTRUCTION. PROVIDE 3" SOUND BATTS IN INFILLED STUD CAVITY. TAPE TO MATCH EXISTING.
- 9.990 PRIME AND TWO COAT LATEX PAINT TO MATCH COLOR AND SHEEN OF EXISTING WALL SURFACES. PAINT WHOLE WALL FROM EDGE TO EDGE AFTER NEW DOOR AND FRAME INSTALLATION. TYPICAL EACH SIDE OF DOOR.
- EXISTING. 23.100 REMOVE HWS/R AND CHWS/R PIPING AND COIL SPECIALTIES FROM FLOOR PENETRATION TO AIR HANDLING UNIT, ALLOWING REMOVAL AND INSTALLATION OF NEW UNIT. PROVIDE TEMPORARY CAP FOR NEW CONNECTION.

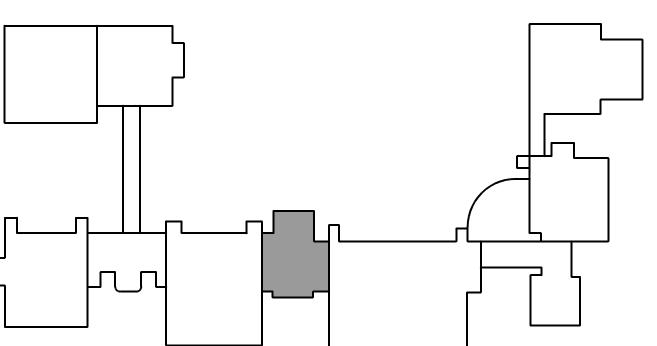
23.101 REMOVE PNEUMATIC CONTROL PANEL AND ALL ASSOCIATED END DEVICES. VERIFY ONLY POINTS IN PANEL ARE

ASSOCIATED WITH AHU-19A. IF OTHER CONTROLS ARE IN PANEL AFFECTING OTHER EQUIPMENT NOTIFY OWNER.

9.991 FURNISH AND INSTALL NEW VINYL COVED BASE AS REQUIRED AFTER DOOR FRAME IS INSTALLED TO MATCH

- 23.102 REMOVE AIR HANDLING UNIT AND ALL RETURN DUCTWORK.
- 23.103 REMOVE OUTSIDE AIR DAMPER AND ASSOCIATED DUCTWORK. PROVIDE TEMPORARY CAP ON LOUVER.
- 23.200 PROVIDE NEW THERMOSTAT FOR AIR HANDLING UNIT.
- 23.201 PROVIDE NEW AIR HANDLING UNIT. PROVIDE CONNECTION TO EXISTING SUPPLY DUCT. PROVIDE LINED RETURN AIR DUCTWORK FROM FILTER SECTION AND UP WALL TO APPROXIMATELY 7 FEET WITH DAMPER.
- 23.203 PROVIDE NEW DDC CONTROLLER FOR AHU. PROVIDE GRAPHICS AND INTERFACE INTO DELTA CONTROLS CAMPUS
- 23.204 PROVIDE HWS/R AND CHWS/R PIPING AND COIL SPECIALTIES TO AHU. ROUTE PIPING TO PROVIDE MAXIMUM ACCESS AND CLEARANCE IN ROOM.
- 23.205 PROVIDE VARIABLE FREQUENCY DRIVE FOR NEW AHU IN PLACE OF LOCAL DISCONNECT. REMOVE "AUTO" WIRING TO H-O-A LOCATED IN SUB STATION A ELECTRICAL ROOM.
- 26.001 DISCONNECT, PRESERVE, AND PROTECT EXISTING ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. RECONNECT EXISTING TO NEWLY INSTALLED MECHANICAL EQUIPMENT AS NECESSARY FOR A COMPLETE AND
- 26.002 EXISTING LIGHT SWITCH TO BE RELOCATED. REINSTALL LIGHT SWITCH AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 26.003 RELOCATE CARD ACCESS DEVICE, REWIRE AND RECONNECT TO OWNER'S DOOR CONTROL SYSTEM. CONFIRM CARD ACCESS DEVICE IS WORKING PROPERLY.
- 26.004 DEMOLISH NON FUSED DISCONNECT, PROTECT FEEDER. PROVIDE CONNECTION TO NEW VFD DRIVE/DISCONNECT AND EXTEND FEEDER AS NECESSARY. 26.005 SUBSTATION A (BASEMENT): DEMOLISH AHU-19A STARTER. PROVIDE 12"SQ NEMA 1 ENCLOSURE, SPLICE

28.001 LOCATE, PRESERVE AND PROTECT EXISTING WIRING FOR DUCT DETECTION AND SAFETY FAN SHUTDOWN. RECONNECT EXISTING FIRE ALARM WIRING TO NEW DEVICES AND EQUIPMENT.



JOB NO. 16-292-1087 DRAWN

CHECKED APPROVED

FIRST FLOOR MECHANICAL PLANS

SHEET TITLE

SHEET NUMBER NORTH