

ABBREVIATIONS AND SYMBOLS

ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

MECHANICAL		PLUMBING		ELECTRICAL	
PIPING DESIGNATIONS	EQUIPMENT DESIGNATIONS	PIPING SYMBOLS	PIPING DESIGNATIONS	POWER SYMBOLS	ABBREVIATIONS
<p>CHS CHILLED WATER SUPPLY</p> <p>CHR CHILLED WATER RETURN</p> <p>CWS CONDENSER WATER SUPPLY</p> <p>CWR CONDENSER WATER RETURN</p> <p>HWS HEATING WATER SUPPLY</p> <p>HWR HEATING WATER RETURN</p> <p>HPWS HEAT PUMP WATER SUPPLY</p> <p>HPWR HEAT PUMP WATER RETURN</p> <p>E EXPANSION LINE</p> <p>CD CONDENSATE DRAIN</p>	<p>AC AIR COMPRESSOR</p> <p>AF AIR FILTER</p> <p>AH/AHU AIR HANDLING UNIT</p> <p>AS AIR SEPARATOR</p> <p>BF BOOSTER FAN</p> <p>CP CIRCULATING PUMP</p> <p>CRAC COMPUTER ROOM AIR CONDITIONER</p> <p>CT COOLING TOWER</p> <p>CU CONDENSING UNIT, AIR COOLED</p> <p>CVT CONSTANT VOLUME FAN TERMINAL COOL/HEAT</p> <p>EDH ELECTRIC DUCT HEATER</p> <p>EF EXHAUST FAN</p> <p>EUH ELECTRIC UNIT HEATER</p> <p>FCU FAN COIL UNIT</p> <p>FD FIRE DAMPER</p> <p>FPB FAN POWERED BOX</p> <p>FSD FIRE/SMOKE COMBINATION DAMPER</p> <p>GRV GRAVITY ROOF VENTILATOR</p> <p>GUH GAS-FIRED UNIT HEATER</p> <p>HC HEATING COIL</p> <p>HP HEAT PUMP, AIR SOURCE</p> <p>HUM HUMIDIFIER</p> <p>HX HEAT EXCHANGER</p> <p>IRH INFRARED HEATER</p> <p>KEF KITCHEN EXHAUST FAN</p> <p>KSF KITCHEN SUPPLY FAN</p> <p>MAU MAKE-UP AIR UNIT</p> <p>ND MOTORIZED DAMPER</p> <p>RTU ROOF TOP UNIT</p> <p>SA SOUND ATTENUATOR</p> <p>SD SMOKE DAMPER</p> <p>SF SUPPLY FAN</p> <p>VAV VARIABLE VOLUME TERMINAL - COOL ONLY</p> <p>VFD VARIABLE FREQUENCY DRIVE</p> <p>VRF VARIABLE REFRIGERANT FLOW</p> <p>VSD VARIABLE SPEED DRIVE</p> <p>VT VARIABLE VOLUME & TEMPERATURE</p> <p>WH WALL HEATER</p> <p>WSPH HEAT PUMP, WATER SOURCE</p>	<p>PIPING UP</p> <p>PIPING DOWN</p> <p>CAPPED PIPE TERMINATION</p> <p>CONNECTION BOTTOM OF MAIN</p> <p>CONNECTION TOP OF MAIN</p> <p>DIRECTION OF FLOW</p> <p>SLOPE DOWN IN DIRECTION SHOWN</p> <p>CONCENTRIC REDUCER</p> <p>ECCENTRIC REDUCER</p> <p>ANGLE VALVE</p> <p>AIR VENT</p> <p>BALL VALVE</p> <p>BUTTERFLY VALVE</p> <p>CHECK VALVE</p> <p>DOUBLE CLEANOUT</p> <p>EXPANSION JOINT</p> <p>GAS COCK</p> <p>GATE VALVE</p> <p>GAUGE COCK</p> <p>GLOBE VALVE</p> <p>HOSE BIBB OR HYDRANT</p> <p>HYDRAULIC SHOCK ARRESTOR</p> <p>PRESSURE REGULATING VALVE</p> <p>SOLENOID VALVE</p> <p>STRAINER</p> <p>THERMOMETER</p> <p>THERMOMETER WELL</p> <p>TEMPERATURE & PRESSURE RELIEF VALVE</p> <p>UNION</p> <p>P-TRAP</p> <p>FLOOR DRAIN/FLOOR SINK WITH P-TRAP</p> <p>HUB DRAIN WITH P-TRAP</p> <p>FLOOR CLEANOUT OR GRADE CLEANOUT</p> <p>CLEANOUT OR WALL CLEANOUT</p> <p>DOUBLE CHECK BACKFLOW PREVENTER</p> <p>REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER</p> <p>CONNECT TO EXISTING</p>	<p>EXISTING TO REMAIN</p> <p>EXISTING TO BE REMOVED/DEMOLISHED</p> <p>DOMESTIC COLD WATER</p> <p>DOMESTIC HOT WATER</p> <p>DOMESTIC HOT WATER RETURN</p> <p>F FIRE PROTECTION</p> <p>G NATURAL GAS</p> <p>W WATER SERVICE</p> <p>A COMPRESSED AIR</p> <p>V VACUUM</p> <p>D INDIRECT WASTE</p> <p>SS SANITARY SEWER</p> <p>SS SANITARY VENT</p> <p>RD PRIMARY ROOF DRAIN</p> <p>OD OVERFLOW ROOF DRAIN</p> <p>SD STORM DRAIN</p> <p>SSD BELOW GRADE SUB-SOIL DRAIN</p> <p>AW ACID WASTE</p> <p>AV ACID VENT</p> <p>GW GREASE WASTE</p> <p>TP TRAP PRIMER SUPPLY</p>	<p>GENERAL PURPOSE RECEPTACLE XX=HEIGHT ABOVE FINISHED FLOOR</p> <p>FLOOR GENERAL PURPOSE RECEPTACLE</p> <p>CEILING GENERAL PURPOSE RECEPTACLE</p> <p>GFCI RECEPTACLE</p> <p>1/2 SWITCHED RECEPTACLE</p> <p>QUADPLEX RECEPTACLE</p> <p>FLOOR QUADPLEX RECEPTACLE</p> <p>CEILING QUADPLEX RECEPTACLE</p> <p>USB/DUPLEX RECEPTACLE</p> <p>SPECIAL RECEPTACLE</p> <p>TELEVISION OUTLET</p> <p>TELEPHONE OUTLET</p> <p>FLOOR TELEPHONE OUTLET</p> <p>CEILING TELEPHONE OUTLET</p> <p>DATA OUTLET</p> <p>FLOOR DATA OUTLET</p> <p>CEILING DATA OUTLET</p> <p>TELE/DATA OUTLET</p> <p>FLOOR TELE/DATA OUTLET</p> <p>CEILING TELE/DATA OUTLET</p> <p>FLOOR JUNCTION BOX</p> <p>CEILING JUNCTION BOX</p> <p>COMBINATION MOTOR STARTER & FUSED DISCONNECT</p> <p>NON-FUSED DISCONNECT SWITCH "WP" INDICATES WEATHER PROOF, MOTOR RATED</p> <p>FUSED DISCONNECT SWITCH (EX. 30/15/5 = 30A RATED DISC., 15A FUSES, (EX. 3 PHASE) "WP" INDICATES WEATHER PROOF, MOTOR RATED</p> <p>CIRCUIT BREAKER IN NEMA ENCLOSURE</p> <p>MOTOR</p> <p>CIRCUIT HOME RUN</p> <p>CROSS MARKS INDICATE WIRES (NEUTRAL, HOT, COMMON GROUND, ISOLATED GROUND)</p> <p>PANELBOARD (240 VOLT AND BELOW)</p> <p>PANELBOARD (480 VOLT)</p> <p>EMERGENCY POWER OFF (EPO) BUTTON</p> <p>RELIEF VALVE</p> <p>COPPER GROUND BAR ASSEMBLY</p> <p>KWH METER</p>	<p>AC ALTERNATING CURRENT</p> <p>A AMPS</p> <p>AFT ABOVE FINISHED FLOOR</p> <p>ATS AUTOMATIC TRANSFER SWITCH</p> <p>C CONDUIT</p> <p>CCTV CLOSED CIRCUIT T.V.</p> <p>CLG CEILING</p> <p>DP DISTRIBUTION PANEL</p> <p>EG EQUIPMENT GROUND</p> <p>ELEC ELECTRIC</p> <p>EMERG EMERGENCY</p> <p>FA FIRE ALARM</p> <p>FAP FIRE ALARM ANNUNCIATOR PANEL</p> <p>FACP FIRE ALARM CONTROL PANEL</p> <p>FLR FLOOR</p> <p>G,GRD GROUND</p> <p>GEN GENERATOR</p> <p>GFCI GROUND FAULT CIRCUIT INTERRUPTER</p> <p>HP HORSE POWER</p> <p>HV HIGH VOLTAGE</p> <p>IG ISOLATED GROUND</p> <p>JB JUNCTION BOX</p> <p>LTS LIGHTS</p> <p>LTG LIGHTING</p> <p>LV LOW VOLTAGE</p> <p>MCB MAIN CIRCUIT BREAKER</p> <p>MDP MAIN DISTRIBUTION PANEL</p> <p>MLO MAIN LUGS ONLY</p> <p>MTD MOUNTED</p> <p>HTG HT MOUNTING HEIGHT</p> <p>P POLE</p> <p>PH PHASE</p> <p>PB PULL BOX</p> <p>PNL PANEL</p> <p>REC,RECEP RECEPTACLE</p> <p>SS SAFETY SWITCH</p> <p>TEL TELEPHONE</p> <p>TP TAMPER PROOF</p> <p>TV TELEVISION</p> <p>UNO UNLESS NOTED OTHERWISE</p> <p>V VOLTAGE</p> <p>WP WEATHER PROOF</p> <p>WT WATER TIGHT</p> <p>XFMR TRANSFORMER</p> <p># PHASE</p>
<p>MECHANICAL SYMBOLS</p> <p>NEW FAN POWERED BOX</p> <p>EXISTING FAN POWERED BOX</p> <p>DEMOLISHED FAN POWERED BOX</p> <p>RELOCATED FAN POWERED BOX</p> <p>NEW VAV</p> <p>EXISTING VAV</p> <p>DEMOLISHED VAV</p> <p>RELOCATED VAV</p> <p>NEW DUCTWORK</p> <p>EXISTING DUCTWORK</p> <p>DEMOLISHED DUCTWORK</p> <p>SUPPLY OR OUTSIDE AIR DUCT</p> <p>RETURN OR EXHAUST AIR DUCT</p> <p>DUCT TURNING UP</p> <p>DUCT TURNING DOWN</p> <p>CLEAR INSIDE DUCT DIMENSION, FIRST VALUE IS DUCT WIDTH</p> <p>DUCT TRANSITION</p> <p>DUCT TAP WITH MANUAL VOLUME DAMPER</p> <p>NEW SUPPLY AIR GRILLE</p> <p>NEW RETURN AIR GRILLE</p> <p>NEW EXHAUST AIR GRILLE</p> <p>EXISTING SUPPLY AIR GRILLE</p> <p>EXISTING RETURN AIR GRILLE</p> <p>EXISTING EXHAUST AIR GRILLE</p> <p>DEMOLISHED SUPPLY AIR GRILLE</p> <p>DEMOLISHED RETURN AIR GRILLE</p> <p>DEMOLISHED EXHAUST AIR GRILLE</p> <p>SIDEWALL OUTLET</p> <p>SIDEWALL INLET</p> <p>THERMOSTAT/SENSOR</p> <p>HUMIDISTAT</p> <p>DUCT SMOKE DETECTOR</p>		<p>EQUIPMENT DESIGNATIONS</p> <p>AC AIR COMPRESSOR</p> <p>CP CIRCULATION PUMP</p> <p>BT BATHTUB</p> <p>ET EXPANSION TANK</p> <p>EWC ELECTRIC WATER COOLER</p> <p>FD FLOOR DRAIN</p> <p>FP FIRE PUMP</p> <p>FS FLOOR SINK</p> <p>HB HOSE BIBB</p> <p>HD HUB DRAIN</p> <p>JP JOCKEY PUMP</p> <p>L LAVATORY</p> <p>MS MOP SINK</p> <p>NFWH NON FREEZE WALL HYDRANT</p> <p>PRV PRESSURE REDUCING VALVE</p> <p>REF REFRIGERATOR</p> <p>RPBP REDUCED PRESSURE BACKFLOW PREVENTER</p> <p>RV RELIEF VALVE</p> <p>S SINK</p> <p>SA SHOCK ARRESTOR</p> <p>SE SEWAGE EJECTOR</p> <p>SH SHOWER</p> <p>SP SLUMP PUMP</p> <p>TD TRENCH DRAIN</p> <p>TM THERMOSTATIC MIXING VALVE</p> <p>TP TRAP PRIMER</p> <p>U URINAL</p> <p>WC WATER CLOSET</p> <p>WCB WASHER CONNECTION BOX</p> <p>WH WATER HEATER</p>			
<p>MECHANICAL SYMBOLS</p> <p>MANUAL VOLUME DAMPER (VD)</p> <p>FIRE DAMPER (FD)</p> <p>SMOKE DAMPER (SD)</p> <p>FIRE/SMOKE COMBINATION DAMPER (FSD)</p> <p>AUTOMATIC DAMPER, OPPOSED BLADE</p> <p>AUTOMATIC DAMPER, PARALLEL BLADE</p> <p>BACK DRAFT DAMPER</p>		<p>FIRE PROTECTION SYMBOLS</p> <p>FIRE DEPARTMENT VALVE WITH CABINET</p> <p>FLOW SWITCH</p> <p>ALARM VALVE</p> <p>DRY PIPE VALVE</p> <p>SIAMESE CONNECTION</p> <p>EXPOSED TYPE SIAMESE CONNECTION</p> <p>INSPECTORS TEST CONNECTION</p> <p>MOTOR GONG</p> <p>O.S.&Y. VALVE</p> <p>TAMPER SWITCH</p> <p>FLOOR CONTROL VALVE</p> <p>FIRE HOSE VALVE</p>			
<p>MECHANICAL/PLUMBING ABBREVIATIONS</p> <p>AFF ABOVE FINISH FLOOR</p> <p>AFG ABOVE FINISHED GRADE</p> <p>A/C ABOVE CEILING</p> <p>BAS BUILDING AUTOMATION SYSTEM - SEE EMCS</p> <p>B/F BELOW FLOOR</p> <p>B/FF BELOW FINISHED FLOOR</p> <p>B/G BELOW GRADE</p> <p>BRF BELOW RAISED FLOOR</p> <p>CLG CEILING</p> <p>CO CLEANOUT</p> <p>DCO DOUBLE CLEANOUT</p> <p>DS DOWNSPOUT</p> <p>EMCS ENERGY MANAGEMENT & CONTROL SYSTEM</p> <p>FCD FLOOR CLEANOUT</p> <p>FLR FLOOR</p> <p>GCD GRADE CLEANOUT</p> <p>GW GREASE WASTE</p> <p>HW HOT WATER</p> <p>HWR HOT WATER RETURN</p> <p>MTD MOUNTED</p> <p>OD OVERFLOW DRAIN</p> <p>ODN OVERFLOW DOWNSPOUT NOZZLE</p> <p>PRV PRESSURE REDUCING VALVE</p> <p>RD ROOF DRAIN</p> <p>RV RELIEF VALVE</p> <p>SD STORM DRAIN</p> <p>SS SANITARY SEWER</p> <p>SV SANITARY VENT</p> <p>UNO UNLESS NOTED OTHERWISE</p> <p>VTR VENT THRU ROOF</p> <p>WCO WALL CLEANOUT</p>		<p>MECHANICAL/PLUMBING ABBREVIATIONS</p> <p>RV RELIEF VALVE</p> <p>SD STORM DRAIN</p> <p>SS SANITARY SEWER</p> <p>SV SANITARY VENT</p> <p>UNO UNLESS NOTED OTHERWISE</p> <p>VTR VENT THRU ROOF</p> <p>WCO WALL CLEANOUT</p>			
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CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES

AOS JOB #: 1488-012-23

GENERAL NOTES

MECHANICAL NOTES:

- IT IS THE INTENT AND MEANING OF THE CONSTRUCTION DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE A MECHANICAL INSTALLATION THAT IS COMPLETE AND ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL, OR CUSTOMARILY INCLUDED EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN.
- THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE REQUIREMENTS OF THE CONTRACT. UPON COMMENCEMENT OF CONSTRUCTION FOR THE WORK INCLUDED IN THIS CONTRACT, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH A STUDY OR EXAMINATION AND THAT HE IS FAMILIAR WITH AND ACCEPTS ALL CONDITIONS OF THE PREMISES.
- PROVIDE EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICES NECESSARY FOR OR INCIDENTAL TO THE INSTALLATION OF A COMPLETE AND OPERATING HVAC OR PLUMBING SYSTEM AS SHOWN OR INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO PROTECT ALL EXISTING OPERATIONS AND PROPERTY ADJACENT WITH WHICH WORK COMES IN CONTACT OR OVER WHICH HE MAY TRANSPORT, HOIST OR MOVE MATERIALS, EQUIPMENT, DEBRIS, ETC. AND SHALL REPAIR SATISFACTORILY ALL DAMAGES CAUSED BY HIM DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE WITH NEW MATERIALS AND/OR EQUIPMENT FAILING TO GIVE SATISFACTORY SERVICE DURING THE WARRANTY PERIOD. THE CONTRACTOR SHALL COORDINATE AND NOTIFY THE BUILDING OWNER AND OPERATOR FOR APPROVAL AND SCHEDULING OF ANY BUILDING OR EXISTING TENANT SYSTEM INTERRUPTION.
- MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CONTRACT DOCUMENTS, APPLICABLE CODES AND STANDARDS, AND, IN THE CASE OF DIFFERENCES BETWEEN APPLICABLE CODES AND STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER IN WRITING OF SUCH DIFFERENCES. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING SUCH DEFECTS. APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL ORDINANCES, UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS OF NATIONALLY ACCEPTED CODES AND STANDARDS.
- THE DRAWINGS WERE PREPARED FROM THE BEST INFORMATION AVAILABLE, BUT DO NOT ATTEMPT TO INDICATE THE LOCATION OF ALL EXISTING EQUIPMENT. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE CONDITIONS SURROUNDING THE INSTALLATION OF HIS WORK PRIOR TO PROCEEDING WITH THE INSTALLATION. CHANGES REQUIRED TO THE DESIGN SHOWN ON THESE DRAWINGS DUE TO EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER/OWNER FOR REVIEW BY WAY OF SHOP DRAWINGS OR SKETCHES DETAILING THE EXISTING CONDITIONS AND THE PROPOSED CHANGE.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED, AS INTERPRETED BY THE ENGINEER. EXPERIENCED CRAFTSMEN SHALL MAKE THE INSTALLATION OF ALL EQUIPMENT IN A NEAT WORKMANSHIP LIKE MANNER. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, COST AND SERVICE NECESSARY TO COMPLETELY INSTALL ALL MECHANICAL WORK. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE AS SCHEDULED OR APPROVED EQUAL.
- COORDINATE THERMOSTAT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. DO NOT INSTALL THERMOSTAT ABOVE DIMMER SWITCH.
- PROPERLY SUPPORT ALL EQUIPMENT AND PIPING WITHIN THE BUILDING AND PROVIDE ADEQUATE PROVISIONS FOR SLOPE AND ANCHORAGE. CONTRACTOR SHALL USE HANGERS, RODS AND INSERTS APPROVED BY UNDERWRITERS LABORATORIES FOR THE SERVICE INTENDED, SECURELY SUPPORTED BY STRUCTURAL MEMBERS WHICH IN TURN ARE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE.
- PROVIDE VIBRATION ISOLATION FOR MOTOR DRIVEN MECHANICAL EQUIPMENT.
- ALL FANS SHALL CARRY THE CERTIFIED RATING SEAL AUTHORIZED BY AMCA.
- PROVIDE FLEXIBLE DUCTWORK CONNECTIONS AT EQUIPMENT.
- DUCTWORK SHALL BE CONSTRUCTED ACCORDING TO SMACNA STANDARDS. DUCT AND FIRE DAMPER SIZES SHOWN ARE AIRSTREAM DIMENSIONS. ALL LONGITUDINAL AND TRANSVERSE SEAMS AND DUCT CONNECTIONS SHALL BE SECURELY FASTENED AND SEALED WITH TAPES OR MASTICS MEETING UL 181A OR UL181B, WELDS, OR GASKETS.
- INSULATE NEW SUPPLY AND RETURN DUCTWORK AND PLENUMS WITH EITHER EXTERNAL INSULATION TYPE IV DUCT WRAP OR INTERNAL DUCT LINER, 1.5 PFC MINIMUM DENSITY. (SIZES SHOWN ARE AIRSTREAM DIMENSIONS.) DUCTWORK AND PLENUMS WITH UNCONDITIONED SPACES SHALL HAVE MINIMUM R-6 INSULATION. EXTERIOR DUCTWORK SHALL HAVE MINIMUM R-8 INSULATION.
- DIFFUSERS, REGISTERS AND GRILLES SHALL BE BUILDING STANDARD UNLESS NOTED OTHERWISE AND SHALL BE PROVIDED WITH FRAMES COMPATIBLE WITH CEILING TYPE. DO NOT SPAN AIR DEVICES OVER PARTITIONS.
- PROVIDE AN AIR BALANCING DEVICE FOR EACH SUPPLY AIR OUTLET AND ZONE TERMINAL DEVICE. PROVIDE YOUNG REGULATORS WITH BOWDEN CABLE CONTROL FOR ALL DAMPERS ABOVE INACCESSIBLE CEILING. COORDINATE EXACT LOCATION OF ESCUTCHEONS IN CEILING WITH ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR TO VERIFY RETURN AIR PATH AND INCORPORATE RETURN AIR TRANSFER THROUGH WALLS AS NECESSARY. OPENING SIZED FOR A MAXIMUM OF 500 FPM UNLESS NOTED OTHERWISE.
- COORDINATE ALL WALLS TO DECK WITH EXISTING DUCTWORK AND EXISTING TERMINAL UNITS.
- BALANCING OF WATER AND AIR SYSTEMS SHALL BE PROVIDED UNDER THIS CONTRACT FOR ALL SYSTEMS WITHIN TENANT BORDERS AND ADJACENT AREAS THAT MAY BE AFFECTED BY BALANCING FOR THIS TENANT. BALANCING CONTRACTOR TO REVIEW DRAWINGS AND NOTIFY THE CONTRACTOR OF APPURTENANCES NEEDED FOR A PROPERLY BALANCED SYSTEM.
- PROVIDE NEBB CERTIFIED AIR BALANCE REPORT.
- COLD AND HOT WATER PIPING SHALL BE TYPE L HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS. PROVIDE SOFT COPPER PIPING UNDER SLAB TO AVOID UNDERGROUND FITTINGS. WHERE ALLOWED BY LOCAL CODES AND AUTHORITY HAVING JURISDICTION, PIPE MAY BE CROSSLINKED POLYETHYLENE (PEX) MANUFACTURED BY PEX-A METHOD AND ASTM F1960 FITTINGS.
- INSULATE DOMESTIC HOT WATER AND RECIRCULATION LINES (1" THICK) AND DOMESTIC COLD WATER LINES (1/2" THICK) WITH OWENS CORNING FIBERGLASS 25 ASL, JOHNS-MANVILLE AP OR APPROVED EQUAL, SEALED TO PREVENT SWEATING AND CONTINUOUS THROUGH WALLS, FLOORS, CEILINGS. ALL HOT WATER PIPING SHALL BE INSULATED PER THE ENERGY CODE. COLD WATER PIPING SHALL BE INSULATED IN EXTERIOR WALLS, CEILINGS OR IN SPACES EXPOSED TO OUTDOOR TEMPERATURES WITH 1" THICK FIBERGLASS INSULATION.
- SOIL, WASTE AND DRAIN PIPING, 2" AND LARGER, SHALL BE SERVICE WEIGHT CAST IRON. WASTE PIPING BELOW THE SLAB SHALL HAVE BELL AND SPIGOT CAST IRON MANUFACTURED TO ASTM A 74 WITH TY-SEAL GASKETS MANUFACTURED TO ASTM C 564. CAST IRON PIPING ABOVE THE SLAB SHALL BE "NO-HUB" PIPE AND FITTINGS MANUFACTURED TO CSPI 301. VENT PIPING MAY BE SCHEDULE 40 GALVANIZED STEEL, DWY COPPER OR SERVICE WEIGHT CAST IRON. ALL CAST IRON SOIL, PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND BE LISTED WITH NSF INTERNATIONAL. IF APPROVED BY LOCAL CODES, SOIL, WASTE, AND DRAIN PIPING, 2" AND LARGER, SHALL BE POLYVINYL CHLORIDE (PVC) SCHEDULE 40 PIPING, ASTM AND NSF STAMPED AND APPROVED. FITTINGS SHALL BE PVC SCHEDULE 40 ASTM STAMPED AND APPROVED.
- WASTE AND VENT PIPING LOCATED IN A RETURN AIR PLENUM SHALL BE OF MANUFACTURED MATERIAL THAT MEETS ASTM-E-84 REQUIREMENTS.
- HOT WATER CIRCULATING SYSTEMS OR HOT WATER HEAT TRACE SHALL HAVE TIMELOCK CAPABLE CONTROL.
- PLUMBING FIXTURES AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED COMPLETE WITH TRIM AND ALL OTHER APPURTENANCES REQUIRED TO CONNECT TO ROUGH-IN PIPING AT FLOORS AND WALLS UNLESS OTHERWISE SPECIFIED.
- WATER HEATING EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS WILL HAVE HEAT TRAPS INSTALLED ON THE SUPPLY AND DISCHARGE PIPING.
- PVC PIPING LOCATED IN PLENUM RETURN MUST MEET ASTM E84 AND HAVE A FIRE SPREAD OF 25/50. ALL PIPING SHALL MEET ALL LOCAL CODE AND AMENDMENT REQUIREMENTS.
- EXISTING EQUIPMENT NOTES:
 - CONTRACTOR SHALL INSPECT EXISTING PLUMBING AND HVAC EQUIPMENT PRIOR TO SUBMITTING HIS BID.
 - CONTRACTOR SHALL INCLUDE IN HIS BID A THOROUGH START-UP SERVICING AND CLEANING OF ALL EXISTING EQUIPMENT. PLACE ALL EXISTING SYSTEMS/EQUIPMENT IN PROPER OPERATING ORDER.
 - IF REPAIRS ARE NECESSARY TO PLACE EXISTING EQUIPMENT IN WORKING ORDER, PROVIDE OWNER WITH A DETAILED WRITTEN REPORT OF NECESSARY REPAIRS AND A COST PROPOSAL TO PERFORM THE WORK. ALL SUCH SERVICE REPORTS SHALL BE DELIVERED TO THE OWNER WITHIN TWO DAYS OF NOTICE TO PROCEED. OWNER RESERVES THE RIGHT TO HAVE ANY REQUIRED REPAIRS DONE BY OTHERS AND TO SEEK OTHER OPINIONS OR REQUIRED REPAIRS.
- PROVIDE INSTALLATION, OPERATION AND MAINTENANCE MANUALS TO THE OWNER.
- STANDARD NO-HUB COUPLINGS SHALL CONFORM TO CSPI 310 (MOST CURRENT EDITION) AND SHALL BE LISTED BY NSF INTERNATIONAL.
- HEAVY DUTY COUPLINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM 1540 AND FM 1680 CLASS I.
- COMPRESSION GASKETS FOR HUB & SPIGOT SHALL CONFORM TO THE REQUIREMENTS OF ASTM STANDARD C 564 AND ASTM C 1563 (MOST CURRENT EDITION)
- JOINTS FOR PIPE AND FITTINGS SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LOCAL CODE REQUIREMENTS.
- ALL MECHANICAL SYSTEMS AND EQUIPMENT SHALL MEET THE CURRENT ASHRAE/IES 90.1 STANDARDS FOR MINIMUM ENERGY EFFICIENCY LEVELS. DUCTWORK INSULATION SHALL HAVE A MINIMUM VALUE OF R-8. PROGRAMMABLE THERMOSTATS (IF USED) SHALL HAVE NIGHT SET BACK. WATER HEATING SYSTEMS SHALL HAVE HEAT TRAPS. PROVIDE OPERATION AND MAINTENANCE MANUALS.
- DRAIN PANS SHALL BE STAINLESS STEEL, DOUBLE SLOPED AND CLEANABLE. REFER TO ASHRAE 62 FOR MINIMUM STANDARDS.
- 45",48" EXPANSION LOOP TO BE PROVIDED EVERY 100' FOR GAS PIPING 2" OR LESS IN DIAMETER. EXPANSION JOINT TO BE PROVIDED EVERY 100' FOR GAS PIPING GREATER THAN 2" IN DIAMETER.

ELECTRICAL NOTES:

- FOR EXACT LIGHT FIXTURE LOCATIONS, LIGHT FIXTURE SPECIFICATIONS, EXACT RECEPTACLE LOCATIONS AND MOUNTING HEIGHTS, REFER TO ARCHITECTURAL PLANS AND DETAILS. MEP PLANS ARE FOR CIRCUITING INFORMATION AND LIFE SAFETY ONLY.
- COORDINATE SWITCH/DIMMER LOCATIONS AND SWITCHING/DIMMING PATTERNS WITH ARCHITECT PRIOR TO INSTALLATION.
- POKE-THROUGH/FLOOR BOX SPECIFICATIONS SHALL BE AS FOLLOWS:
 - DUPLEX - WALKER RC3 (OR EQUIVALENT)
 - QUADPLEX - WALKER RC4 (OR EQUIVALENT)
 - FURNITURE FEED (TWO DEVICES SHOWN) - WALKER RC77TC FOR POWER, WALKER RC900AM-114 FOR TELE/DATA (OR EQUIVALENTS)
 - FURNITURE FEED (ONE DEVICE SHOWN) - WALKER RC87TC COMBINATION POWER/TELE/DATA TOMBSTONE (OR EQUIVALENT)
 - SLAB ON GRADE FLOOR BOX - WALKER OMNIBOX 880CS3-1 (OR EQUIVALENT)
- TENANT'S CABLING VENDOR TO VERIFY THAT TELE/DATA POKE-THROUGH QUANTITIES SHOWN ON PLANS ARE SUFFICIENT FOR CABLING REQUIREMENTS. CONTACT AOS/ARCHITECT IF ADDITIONAL DEVICES ARE REQUIRED.
- PROVIDE OUTLET BOXES FOR ALL RECEPTACLES, SWITCHES, TELE/DATA DEVICES, ETC. AS REQUIRED PER PLANS.
- ALL WET LOCATION RECEPTACLES (WITHIN 6' OF WET LOCATION) SHALL BE RATED "GF". ALL OUTDOOR RECEPTACLES SHALL BE RATED "WP" AND "GFCI". ALL VENDING MACHINE RECEPTACLES TO BE GFCI PROTECTED.
- ALL RECEPTACLES SHALL BE GROUNDED. ALL DEVICES TO MATCH BUILDING STANDARD TYPE, U.N.O. ON PLANS. ALL FINISHES SHALL BE SELECTED BY ARCHITECT.
- COORDINATE WITH BUILDING MANAGEMENT AND STRUCTURAL ENGINEER PRIOR TO INSTALLING ANY PENETRATIONS THROUGH SLABS, FIRE RATED WALLS, AND ROOFS TO VERIFY ANY 4-HAY OR OTHER REQUIREMENTS NECESSARY PRIOR TO PERFORMING WORK. FINISHED INSTALLATION SHALL MAINTAIN FIRE PROOF, WATER PROOF, AND STRUCTURAL INTEGRITY OF SYSTEM PENETRATED.
- ALL 120V AND 277V BRANCH CIRCUITS ARE PROTECTED BY 1P/20A BREAKERS U.N.O. ON PLANS.
- AT ALL LOCATIONS WHERE MULTIPLE SWITCHES ARE LOCATED TOGETHER, CONTRACTOR SHALL GANG SWITCHES UNDER ONE COVER PLATE.
- ALL NEW LIGHT FIXTURES TO BE PROVIDED WITH LAMPS INCLUDED. ALL NEW/RELOCATED LIGHT FIXTURES SHALL BE SUPPORTED FROM ABOVE STRUCTURE, SEPARATE FROM CEILING GRID. PROVIDE AND INSTALL ALL REQUIRED ACCESSORIES RECOMMENDED BY MANUFACTURER FOR A COMPLETE INSTALLATION. CLEAN AND RELAMP ALL EXISTING TO REMAIN FIXTURES AS REQUIRED, VERIFY EXACT SCOPE IN FIELD.
- ALL CONDUCTORS ARE TO BE COPPER, #12 GAUGE MINIMUM. CIRCUITS OF 120V EXCEEDING 115 FEET AND CIRCUITS OF 277V EXCEEDING 270 FEET SHALL BE #10 GAUGE MINIMUM. CONTROL WIRING SHALL BE #14 GAUGE MINIMUM. ALL CONNECTIONS SHALL BE MADE WITH U.L. LISTED CONNECTORS. UPSIZE ALL SHARED NEUTRALS TO #10 WIRE.
- DEMOLISH ALL UNUSED CONDUIT AND WIRING BACK TO SOURCE.
- UTILIZE EXISTING BASE BUILDING EMERGENCY LIGHTING CIRCUITS FOR ALL EMERGENCY FIXTURES AND EXIT SIGNS. VERIFY MAXIMUM OF 16A PER CIRCUIT AFTER ADDITION OF NEW FIXTURES. IN THE ABSENCE OF EMERGENCY CIRCUITS, PROVIDE AND INSTALL BATTERY PACKS IN ALL EMERGENCY FIXTURES AND EXIT SIGNS.
- IF ENERGY MANAGEMENT SYSTEM (EMS) IS PRESENT IN BUILDING, CONTRACTOR TO ROUTE ALL LIGHTING CIRCUITS THROUGH EMS AS DIRECTED BY BUILDING ENGINEER. COORDINATE IN FIELD.
- PROVIDE POWER TO ALL NEW HVAC, VAV BOXES, DAMPERS, ETC. FROM NEAREST 120V GENERAL PURPOSE CIRCUIT OR FROM BUILDING HVAC CONTROL PANEL AS REQUIRED. MATCH BUILDING STANDARD. COORDINATE ANY CONNECTIONS TO CONTROL SYSTEM WITH BUILDING ENGINEER. VERIFY LOCATIONS AND QUANTITIES WITH MECHANICAL PLANS. PROVIDE LOCAL DISCONNECT SWITCH AT EQUIPMENT.
- STEEL EMT CONDUIT SHALL BE UTILIZED FOR ALL HOME RUNS, 3/4" U.N.O. ON PLANS. MC CABLE SHALL BE ALLOWED FOR BRANCH WIRING BETWEEN LIGHTS AND RECEPTACLES U.N.O.
- FOR EACH SINGLE PHASE OR THREE PHASE MOTOR, CONTRACTOR TO INSTALL LOCAL DISCONNECT. REFERENCE PLANS FOR DISCONNECT TYPE.
- ALL FEEDERS AND BRANCH WIRING (120-480V), CONTROL WIRING, AND COMMUNICATION WIRING (LOW VOLTAGE) SHALL BE COMPLETELY ENCLOSED IN ELECTRICAL RACEWAY FROM SOURCE TO TERMINATION. INSTALL NYLON PULL CORD IN ALL RACEWAYS. ALL RACEWAYS SHALL BE FULLY SUPPORTED FROM SOURCE TO TERMINATION. PROVIDE AND INSTALL ALL SUPPORTING MEANS AS REQUIRED FOR A COMPLETE SYSTEM. CONTRACTOR TO INSTALL PULL BOXES, JUNCTION BOXES, WIREWAYS, ETC. WHERE REQUIRED PER NEC FOR A COMPLETE, CODE COMPLIANT SYSTEM.
- CONTRACTOR TO REFERENCE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF ALL HVAC/PLUMBING EQUIPMENT PRIOR TO SUBMITTING BID AND ROUTING CIRCUITRY. CONTACT AOS IMMEDIATELY IF MECHANICAL/PLUMBING PLANS SHOW EQUIPMENT THAT IS NOT CIRCUITED ON ELECTRICAL PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE POWER TO ALL NEW HVAC/PLUMBING EQUIPMENT, TO ENSURE A COMPLETE, WORKABLE SYSTEM.
- CONTRACTOR TO OBTAIN APPROVAL FROM BUILDING MANAGEMENT FOR ANY SHUTDOWNS REQUIRED. UNDER NO CIRCUMSTANCES SHALL ANY ELECTRICAL DISTRIBUTION EQUIPMENT BE SHUT DOWN WITHOUT THE EXPRESS PERMISSION OF BUILDING MANAGEMENT.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO PROPERTY (OR ADJACENT PROPERTY) CAUSED BY HIM DURING CONSTRUCTION AND FOR THE REPLACEMENT/REPAIR THEREOF.
- CONTRACTOR SHALL HONOR ALL GUARANTEE COMMITMENTS FOR THE DESIGNATED TIME FRAME. REPLACE/REPAIR ANY FAILING EQUIPMENT/SYSTEMS AS DIRECTED BY BUILDING MANAGEMENT DURING THIS TIME FRAME.
- ALL NEW EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO PROVIDE AND INSTALL ALL APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION.
- ALL WORK SHALL FULLY COMPLY WITH ALL APPLICABLE CODES. CONTACT AOS AND/OR LOCAL CODE OFFICIALS TO RESOLVE ANY QUESTIONS REGARDING CODE ISSUES PRIOR TO PERFORMING WORK. SHOULD CONTRACTOR PROCEED WITH WORK IN QUESTION WITHOUT COORDINATING WITH CODE OFFICIALS, CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH RE-WORK DUE TO CODE VIOLATIONS.
- PRIOR TO SUBMITTING BID, CONTRACTOR TO VISIT SITE TO FAMILIARIZE HIM/HER SELF WITH ALL EXISTING FIELD CONDITIONS. NOTIFY ARCHITECT/AOS OF ANY ITEMS DISCOVERED THAT ARE NOT COVERED ON PLANS THAT WILL AFFECT PRICING.
- ALL NEW TRANSFORMERS SHALL U.L. LISTED DRY TYPE. SEE PLANS FOR RATINGS. ALL FLOOR EQUIPMENT SHALL BE MOUNTED ON 4" HOUSEKEEPING PAD.
- REFERENCE PLANS FOR ALL NEW EQUIPMENT LOCATIONS. MANUFACTURER OF ALL NEW DISTRIBUTION EQUIPMENT SHALL MATCH BUILDING STANDARD. VERIFY MANUFACTURER DURING SITE VISIT. ALL NEW PANELBOARDS TO HAVE COPPER BUS.
- FINISHED WORK TO FULLY COMPLY WITH ALL BASE BUILDING STANDARDS. OBTAIN MANUAL OF BUILDING STANDARDS FROM BUILDING MANAGEMENT PRIOR TO SUBMITTING BID AND BEGINNING WORK.
- LOCAL DISCONNECTS ARE PROVIDED WITH ALL CRAC (COMPUTER ROOM AIR CONDITIONING) EQUIPMENT U.N.O.
- ALL SURFACE MOUNTED RACEWAY SHALL BE ALUMINUM WITH DIVIDER. RACEWAYS SHALL BE SIZED PER NEC FOR WIRE QUANTITY THROUGH RACEWAY. FINISH OF RACEWAY TO BE SELECTED BY ARCHITECT.
- CONTRACTOR TO INSTALL NEW kWh METERS FOR ANY NEW CRAC EQUIPMENT, OR FOR ANY NEW SUPPLEMENTAL HVAC SPLIT SYSTEMS OR ROOF TOP UNITS. REFERENCE PLANS FOR MORE DETAILED METERING INSTRUCTIONS.
- UPDATE ALL AFFECTED PANEL SCHEDULES UPON COMPLETION OF WORK. UPDATED SCHEDULES MUST BE TYPED.
- ALL ELECTRIC ROOM INSTALLATIONS SHALL BE DONE IN SUCH A WAY AS TO MAXIMIZE WALL/FLOOR SPACE FOR FUTURE EQUIPMENT.
- THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR SUBMITTING FIRE ALARM CONSTRUCTION DOCUMENTS TO LOCAL OFFICIALS FOR PERMIT. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT QUANTITIES AND LOCATIONS OF ALL FIRE ALARM DEVICES TO MEET ALL APPLICABLE CODES AND FOR DETERMINING REQUIREMENTS FOR CONNECTIONS TO EXISTING BUILDING FIRE ALARM SYSTEM TO ENSURE A COMPLETE, WORKABLE SYSTEM. INSTALL NEW FIRE ALARM SYSTEM IN BUILDING WHERE DIRECTED BY LOCAL CODE OFFICIALS.
- CONTRACTOR SHALL PROVIDE ALL ITEMS AND ACCESSORIES AS REQUIRED PER ALL RELATED MANUFACTURER'S RECOMMENDATIONS TO PROVIDE A COMPLETE, WORKABLE ELECTRICAL SYSTEM PER THE INTENT OF THE CONTRACT DOCUMENTS, EVEN THOUGH ALL NECESSARY ITEMS AND ACCESSORIES ARE NOT SHOWN ON PLANS.
- CONTRACTOR TO INSTALL A GROUNDING SYSTEM THAT FULLY COMPLIES WITH THE NEC AND ANY LOCAL CODES.
- CONTRACTOR TO INSTALL CONDUIT WITH PULL STRING FROM BUILDING TELEPHONE CLOSET TO TENANT'S PHONE BOARD. COORDINATE EXACT CONDUIT SIZE AND CONDUIT ROUTING IN FIELD WITH TENANT AND BUILDING ENGINEER.
- CONTRACTOR TO ROUTE 1-#6 INSULATED GROUND WIRE FROM BUILDING GROUND Riser TO TENANT TELEPHONE BOARD. IF TENANT HAS COPPER GROUND BAR IN SERVER/IT ROOM, CONTRACTOR MAY UTILIZE IT TO SERVE #6 GROUND WIRE TO PHONE BOARD. COORDINATE EXACT GROUNDING REQUIREMENTS IN FIELD WITH TELEPHONE SYSTEM INSTALLER PRIOR TO INSTALLING GROUND WIRE.
- IN KITCHEN AREAS, ALL SINGLE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 50A OR LESS AND ALL THREE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 100A OR LESS TO BE GFCI PROTECTED PER NEC 210.8.
- CONTRACTOR SHALL COORDINATE 3RD PARTY ENERGY COMPLIANCE REVIEW WITH CITY FINAL INSPECTION REQUIREMENTS. OBTAIN LIST OF APPROVED REVIEWERS DIRECTLY FROM CITY INSPECTION DEPARTMENT. ALL FEES ASSOCIATED WITH 3RD PARTY REVIEWS SHALL BE PAID BY THE CONTRACTOR AS PART OF CLOSE OUT DOCUMENTS.
- ALL VERTICAL MOUNTED RECEPTACLES SHALL BE INSTALLED WITH THE GROUND ON TOP. ALL HORIZONTAL RECEPTACLES SHALL BE INSTALLED WITH THE NEUTRAL ON TOP.

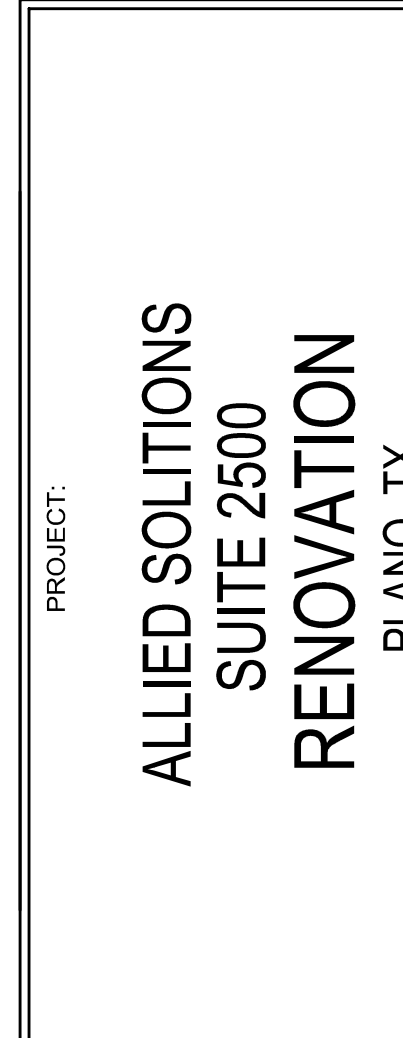
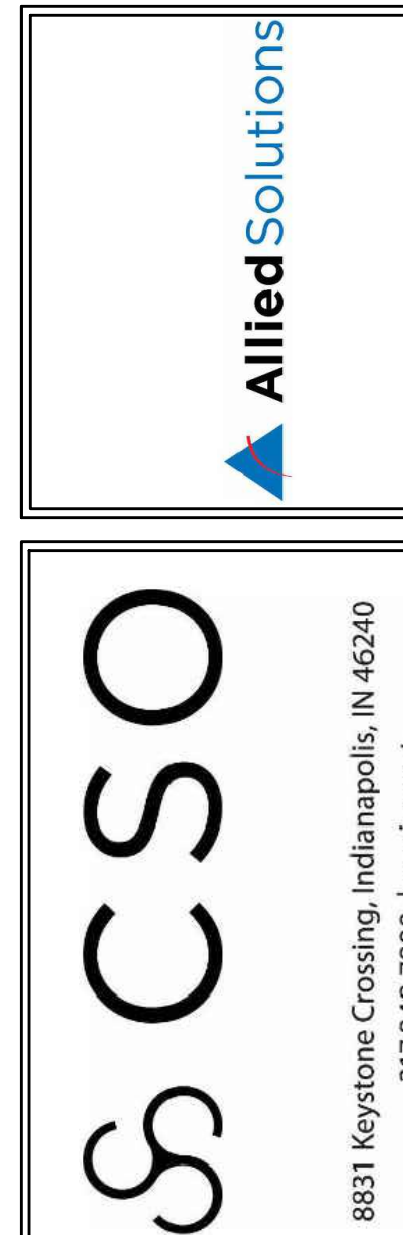
ALL NOTES MAY NOT APPLY.

DEMOLITION NOTES:

- PROTECT THE EXISTING EQUIPMENT AND SYSTEMS TO REMAIN OPERATIONAL. IF DAMAGED OR DISTURBED IN THE COURSE OF THE DEMOLITION WORK, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE WITH NEW PRODUCT OF EQUAL CAPACITY, QUALITY AND FUNCTIONALITY.
- CONTRACTOR SHALL COORDINATE WITH THE OWNER TO ARRANGE THE SHUT OFF OF UTILITIES.
- CONTRACTOR SHALL BOX AND/OR PALLETIZE ALL DEMOLISHED EQUIPMENT AND PROTECT IT ON SITE. REMOVE THESE ITEMS FROM THE SITE AT THE DIRECTION OF THE OWNER.
- CONTRACTOR SHALL NOT CONSIDER DEMOLITION AND ALTERATION NOTES TO BE ALL-INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA TO FULFILL THE INTENT OF THE COMPLETE DESIGN. REFER TO ARCHITECTURAL DOCUMENTS FOR DEFINITION OF SCOPE FOR DEMOLITION AREAS AND ADDITIONAL REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO CONFIRM THE EXTENT OF DEMOLITION AND RESOLVE ANY DISCREPANCIES WITH OWNER'S/LANDLORD'S CONSTRUCTION MANAGER.
- FOR DEMOLITION AREAS, THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND FIRE SUPPRESSION DEMOLITION DRAWINGS AND REMOVE WIRING, RACEWAYS, AND ELECTRICAL EQUIPMENT ASSOCIATED WITH THE MECHANICAL, PLUMBING AND FIRE SUPPRESSION DEMOLITION.
- ENSURE THAT ALL LIFE SAFETY SYSTEMS REMAIN OPERATIONAL AND MEET LIFE SAFETY CODE REQUIREMENTS FOR ALL OCCUPIED AREAS THAT REMAIN OPERATIONAL DURING/AFTER DEMOLITION. THIS INCLUDES, BUT IS NOT LIMITED TO, EGRESS PATHWAYS, FIRE ALARM SYSTEMS, EGRESS LIGHTING AND OTHER LIFE SAFETY SYSTEMS.
- PROTECT EXISTING EQUIPMENT AND SYSTEMS INTENDED TO REMAIN OPERATIONAL. IF DAMAGED OR DISTURBED IN THE COURSE OF THE DEMOLITION WORK, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE WITH NEW PRODUCT OF EQUAL CAPACITY, QUALITY AND FUNCTIONALITY.
- RE-ROUTE AND RE-CONNECT ANY CIRCUIT(S) THAT ARE TO REMAIN IN USE BUT INTERFERES WITH THE NEW CONSTRUCTION.
- WORK REQUIRING INTERRUPTION OF ELECTRICAL POWER, WHICH WOULD ADVERSELY AFFECT THE NORMAL OPERATION OF THE OWNER/LANDLORD'S PROPERTY OR OTHER BUILDING TENANTS, SHALL BE DONE AT A TIME OTHER THAN NORMAL WORKING HOURS. SCHEDULE ALL OUTAGES WITH OWNER/LANDLORD PRIOR TO SHUTDOWN.
- OWNER/LANDLORD RESERVES THE RIGHTS TO ALL DEMOLISHED MATERIALS. COORDINATE AND VERIFY EQUIPMENT INTENDED TO BE SALVAGED PRIOR TO DEMOLITION. MATERIALS THAT OWNER/LANDLORD REQUESTS TO BE RE-USED OR SALVAGED, THE MATERIALS SHALL BE REMOVED IN A NEAT WORKMAN LIKE MANNER TO ALLOW THEIR RE-USE. PROTECT THE SALVAGE MATERIALS FOR REUSE BY PROPERLY PACKAGING THE MATERIALS TO PROTECT SALVAGED MATERIALS FROM DAMAGE. SECURELY PACKAGE ALL SALVAGE MATERIALS. INSTALLATION HARDWARE AND PARTS TO SALVAGED MATERIALS.
- REMOVE UNUSED BRANCH CIRCUITS BACK TO BRANCH PANELBOARD OF ORIGIN. MARK BREAKER AS "SPARE" AND MAKE ELECTRICALLY SAFE. REMOVE ALL ABANDONED CONDUITS ABOVE LAY-IN CEILING, EXPOSED CONDUITS, FLEXIBLE CONDUITS, SURFACE RACEWAY, SURFACE MOUNTED OUTLET/JUNCTION BOXES, AND EQUIPMENT UNLESS NOTED OTHERWISE.
- REMOVE DEMOLISHED MATERIAL FROM PROJECT SITE IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS. FOLLOW ALL STATE AND LOCAL REGULATIONS AND CODES FOR PROPER DISPOSAL.

CONTRACTOR SHALL COORDINATE
MEP DRAWINGS WITH ALL OTHER
DISCIPLINES

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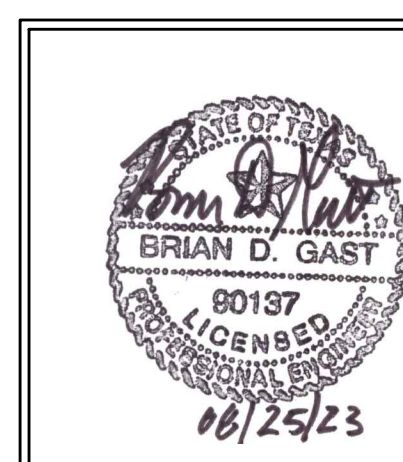


SCOPE DRAWINGS:
These drawings indicate the general scope of the project. A review of architectural design concepts, the determination of all electrical, mechanical and electrical systems and the work required for all disciplines is required for the completion of the project.
On the basis of the general scope indicated or described, the trade contractor shall furnish all items required for the complete installation and completion of the work.

REVISIONS:

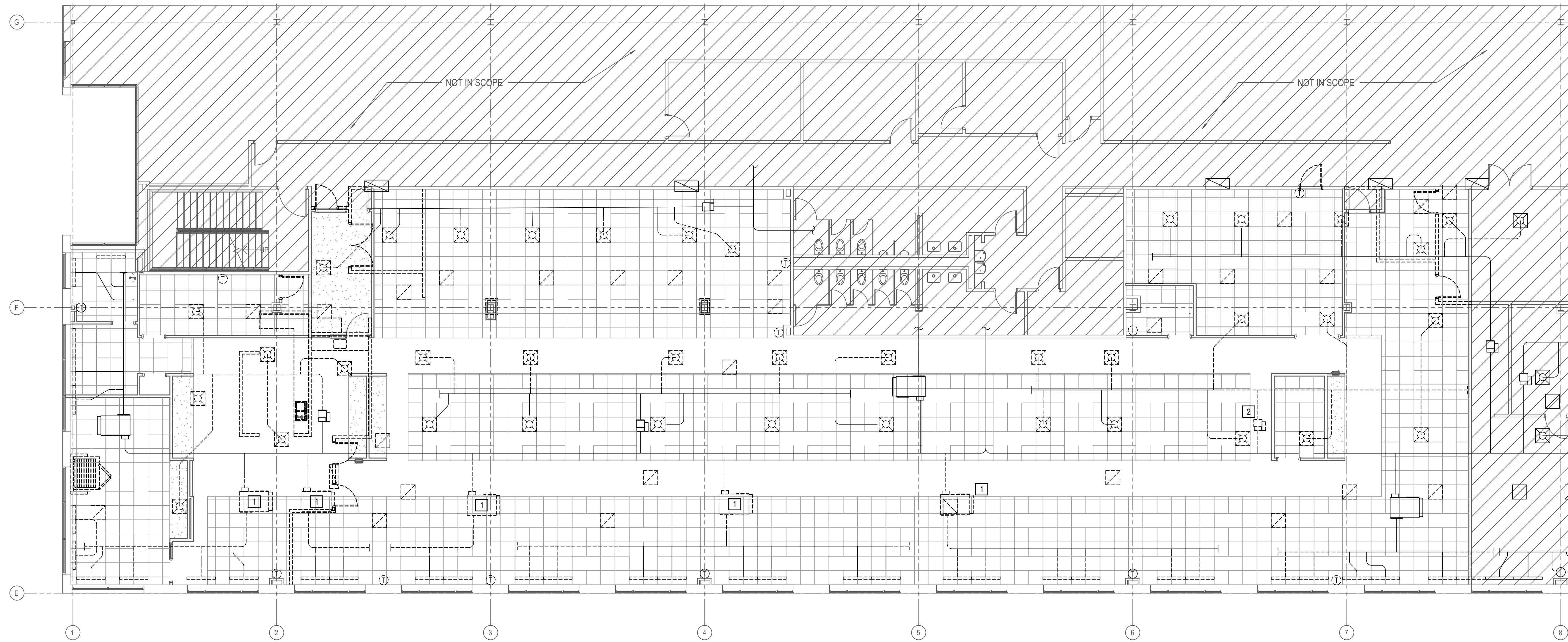
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DRAWING TITLE:
**COVER SHEET
NOTES**



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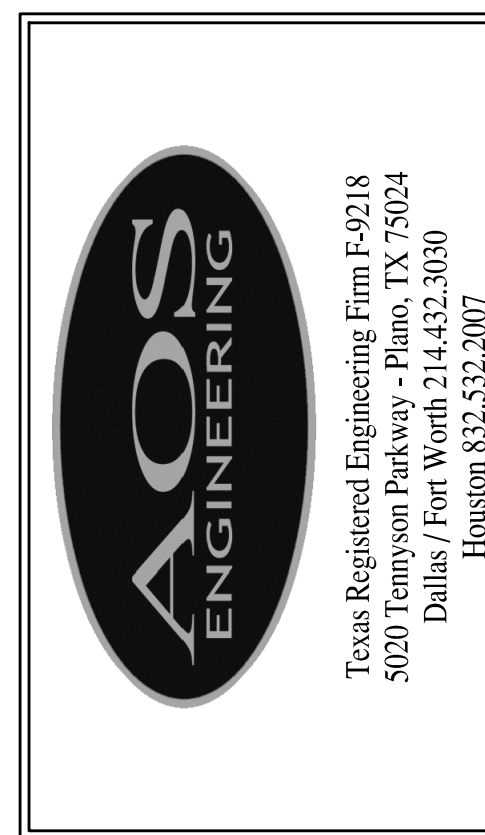
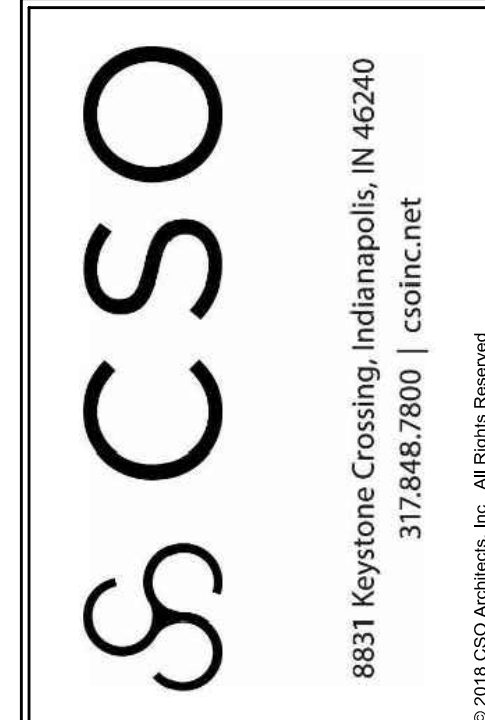
1 DEMOLITION PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND CONSTRUCTION. NO ALLOWANCES WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. REPORT ANY DEFICIENCIES TO AOS ENGINEERING.

KEY NOTES:

- 1 RELOCATE FAN POWERED BOX TO NEW LOCATION AS SHOWN ON PLANS.
- 2 RELOCATE VARIABLE AIR VOLUME BOX TO NEW LOCATION AS SHOWN ON PLANS.



PROJECT:
**ALLIED SOLUTIONS
SUITE 2500
RENOVATION
PLANO, TX**

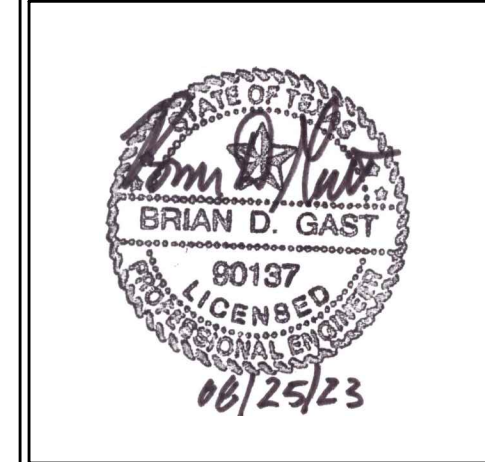
SCOPE DRAWINGS:
These drawings indicate the general scope of the project. The scope of mechanical design coverage, the description of the existing, and the proposed mechanical and electrical systems shall be determined by the contractor. The drawings do not constitute a contract. The contractor shall be responsible for all work required for the performance and completion of the project. On the basis of the general scope indicated or described, the trade contractor shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

NO.	DATE	DESCRIPTION

ISSUE DATE	DRAWN BY	CHECKED BY
08/25/2023		

DRAWING TITLE:
**MECHANICAL
FLOOR PLAN**

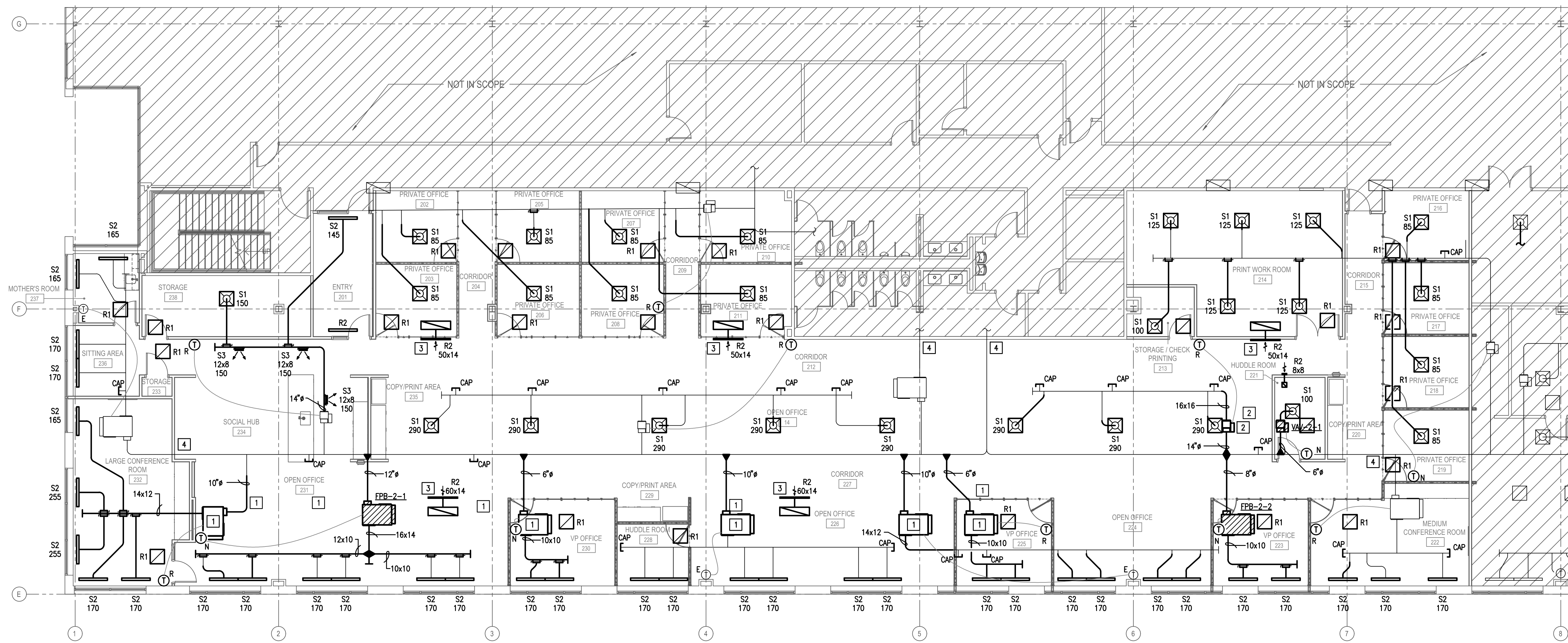


DRAWING NUMBER:
M101

PROJECT NUMBER:
2022082

CONTRACTOR SHALL COORDINATE
MEP DRAWINGS WITH ALL OTHER
DISCIPLINES

AOS JOB #: 1488-012-23



1 FLOOR PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

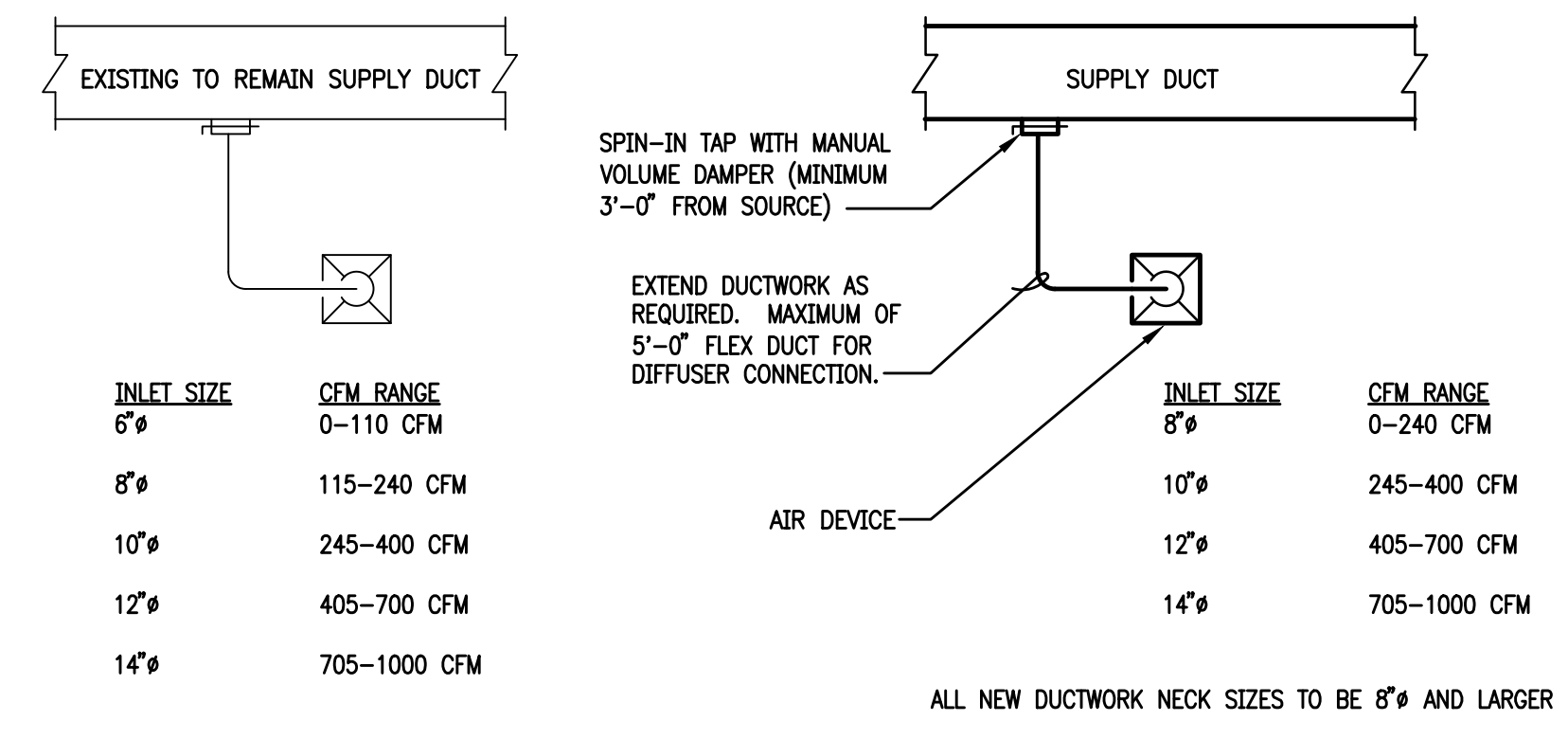
GENERAL NOTES:

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND CONSTRUCTION. NO ALLOWANCES WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. REPORT ANY DEFICIENCIES TO AOS ENGINEERING.
- B. MOUNT ALL NEW AND RELOCATED THERMOSTATS A MINIMUM OF 48" ABOVE FINISHED FLOOR. THERMOSTAT LOCATIONS ARE DIAGRAMMATIC. FIELD VERIFY EXACT PLACEMENT OF THERMOSTATS WITH TENANT AND ARCHITECT PRIOR TO CONSTRUCTION.
- C. MAINTAIN 10'-0" CLEARANCES FROM ALL EXHAUST TO OUTSIDE AIR INTAKE OPENINGS PER LOCAL CODES.
- D. FOR ALL HVAC EQUIPMENT, MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES FOR ACCESS AND MAINTENANCE.
- E. PROVIDE SMOKE/FIRE DAMPERS FOR ALL NEW PENETRATIONS IN FIRE RATED WALL. FIELD VERIFY THAT EXISTING PENETRATIONS HAVE APPROPRIATE FIRE/SMOKE DAMPERS.
- F. ANY THERMOSTAT MOUNTED ON EXTERIOR WALLS MUST BE INSULATED BEHIND THERMOSTAT TO PREVENT FALSE READINGS.
- G. EXISTING THERMOSTATS SHALL BE COVERED AND SEALED DURING CONSTRUCTION. ALL EXISTING THERMOSTATS BEING REUSED SHALL BE SERVICED AND CALIBRATED.
- H. CONSTRUCTION FILTERS SHALL REMAIN OR BE PLACED ON ALL FAN POWERED BOXES DURING CONSTRUCTION. FILTERS SHALL BE REMOVED AFTER CONSTRUCTION AND VERIFIED BY BUILDING MANAGEMENT BEFORE CEILING IS CLOSED.
- I. ALL HVAC EQUIPMENT AND ASSOCIATED ELECTRICAL SHALL BE RELOCATED IF NECESSARY TO MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE FROM ALL DENISING WALLS, WALLS TO DECK, GYPSUM CEILING, AND/OR ANY BUILD OUT MATERIALS THAT MAY OBSTRUCT THE SERVICING OF THE EQUIPMENT.
- J. ALL NEW EXPOSED DUCTWORK TO BE INTERNALLY LINED, SPIRAL WITH GALVANIZED FINISH UNLESS NOTED OTHERWISE. COORDINATE COLOR (IF REQUIRED) WITH ARCHITECT BEFORE BID. PROVIDE PAINT GRIP COATING AS REQUIRED.

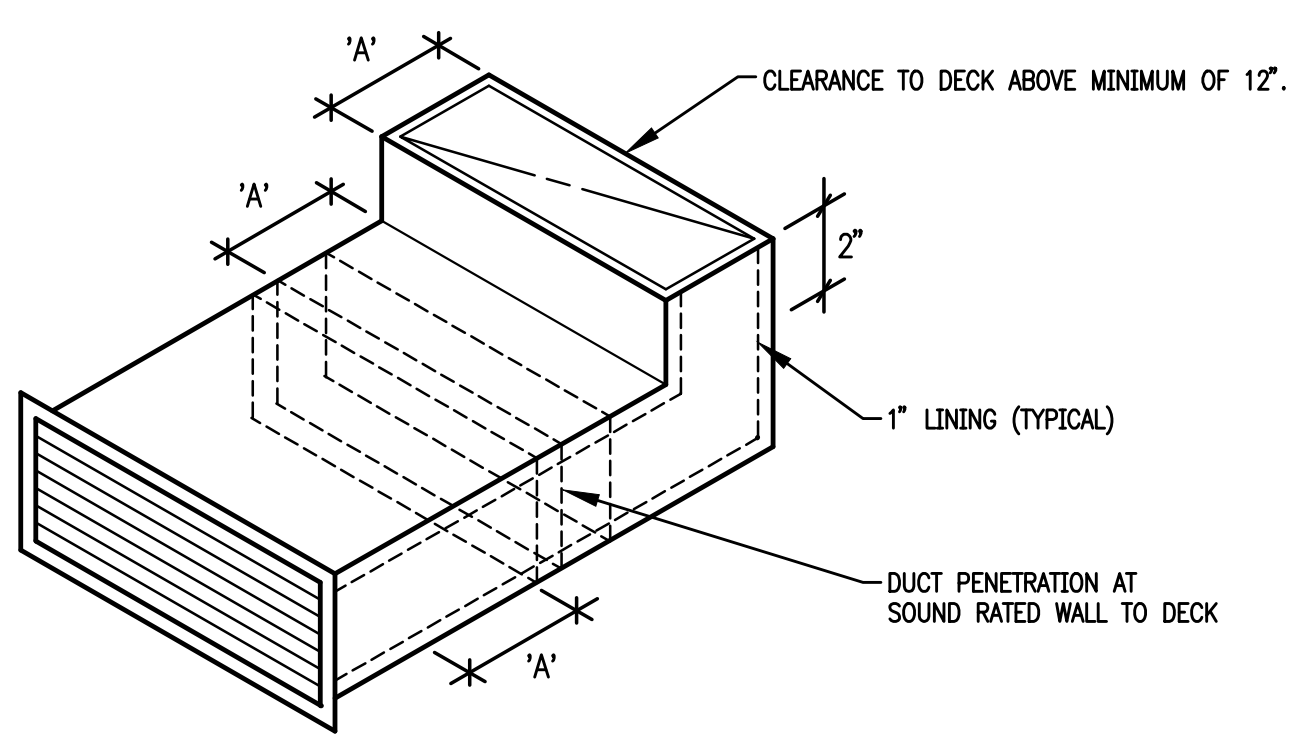
KEY NOTES:

- 1 RELOCATED FAN POWERED BOX. EXTEND WIRING AND DUCTWORK TO NEW LOCATION AS REQUIRED. PROVIDE ALL MANUFACTURER REQUIRED CLEARANCES FOR MAINTENANCE AND ACCESS. EXTEND FULL SIZED DUCTWORK AS NEEDED FROM EXISTING LOCATION TO NEW LOCATION AS SHOWN ON PLANS.
- 2 RELOCATED VARIABLE AIR VOLUME BOX. EXTEND WIRING AND DUCTWORK TO NEW LOCATION AS REQUIRED. PROVIDE ALL MANUFACTURER REQUIRED CLEARANCES FOR MAINTENANCE AND ACCESS. EXTEND FULL SIZED DUCTWORK AS NEEDED FROM EXISTING LOCATION TO NEW LOCATION AS SHOWN ON PLANS.
- 3 PROVIDE AND INSTALL SIDEWALL RETURN AIR TRANSFER PER THE SIDEWALL RETURN AIR TRANSFER DETAIL: SIZE AS NOTED.
- 4 PROVIDE AND INSTALL WHITE DUCT COLLAR WHERE DUCTWORK PENETRATES DRYWALL ASSEMBLY.

NOTE: CONTRACTOR TO VERIFY EXISTING TAP SIZES AND NOTIFY LANDLORD IF REPLACEMENT IS REQUIRED. REFER TO SCHEDULE BELOW. CAP ALL UNUSED TAPS FLUSH.



3 SUPPLY DIFFUSER CONNECTION DETAIL
SCALE: NOT TO SCALE



2 RETURN AIR TRANSFER (SIDEWALL)
SCALE: NOT TO SCALE

ELECTRIC FAN POWERED BOX SCHEDULE												
GENERAL			COOLING				ELECTRIC HEATING COIL				REMARKS	
DESIG.	MFR.	MODEL #	INLET SIZE (IN.)	DESIGN CFM	COOLING MIN. CFM	ESP (IN. WG.)	VOLTPH	FAN HP	HEATING MIN. CFM	KW		
FPB-2-1	BUILDING STANDARD	BUILDING STANDARD	12	1020	285	0.5	277/1	3/4	715	0.5	480/3	1-9
FPB-2-2	BUILDING STANDARD	BUILDING STANDARD	8	360	85	0.5	277/1	1/3	240	2.5	480/3	1-9

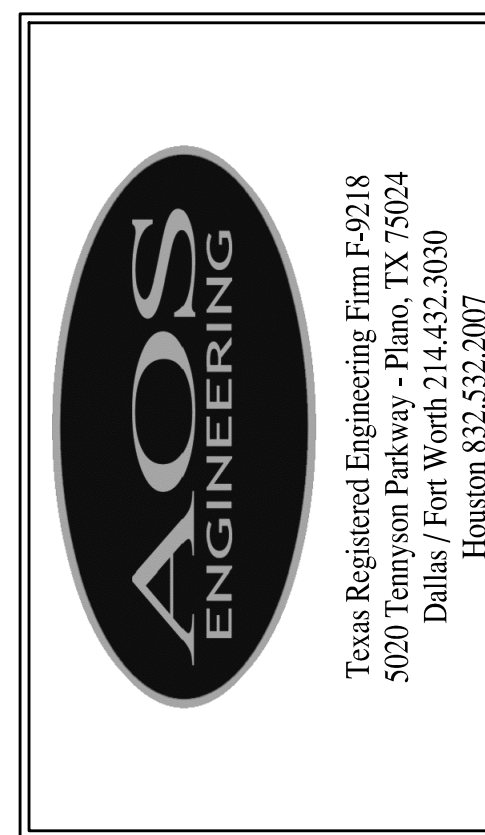
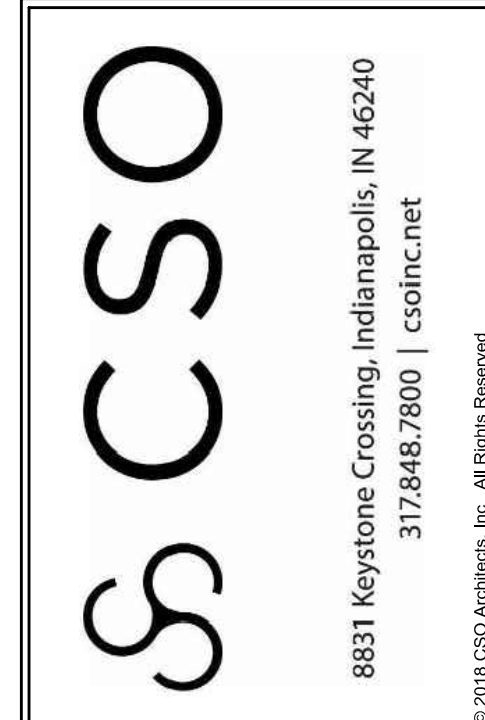
NOTES:
 A. EQUIPMENT TO BE CLEARLY LABELED.
 B. ACCEPTABLE MANUFACTURERS ARE: ENVIRO-TEC, PRICE, TITUS, YORK/JCI, TRANE, KRUEGER.
 C. REFER TO SCHEDULE FOR MINIMUM SETPOINTS.

REMARKS:
 1. 7 DAY PROGRAMMABLE THERMOSTAT
 2. SINGLE POINT CONNECTION AND FUSED DISCONNECT FOR EACH UNIT
 3. BOXES SHALL BE PROVIDED WITH MAGNETIC CONTACTORS, SCR AIR FLOW SWITCHES AND DOOR INTERLOCK
 4. FILTER RESISTANCE IS NOT INCLUDED IN THE SCHEDULED EXTERNAL STATIC PRESSURE
 5. BOXES SHALL BE PRESSURE INDEPENDENT
 6. BOXES SHALL BE DDC
 7. INLET DUCT SIZE SHALL MATCH THE BOX SIZE AS SCHEDULED. INSTALLED MAXIMUM OF 5' OF FLEXIBLE DUCTWORK AT THE PRIMARY INLET OF THE BOX
 8. ALL BOXES OVER 2,000 CFM TO CONTAIN A DEDICATED SMOKE DETECTOR IN THE RETURN AIR PATH OF THAT SPECIFIC TERMINAL. COORDINATE FINAL LOCATION WITH AHL
 9. BOXES SHALL BE COMPLETE WITH BRAND NAME DDC ELECTRONIC CONTROLS AND CONNECTED TO BUILDING AUTOMATION SYSTEM

VARIABLE AIR VOLUME BOX SCHEDULE						
GENERAL			MECHANICAL			
DESIG.	SERVES	MFR.	MODEL #	INLET SIZE (IN.)	DESIGN CFM	COOLING MIN. CFM
VAV-2-1	HUDDLE 221	BUILDING STANDARD	BUILDING STANDARD	6	100	25

NOTES:
 A. EQUIPMENT TO BE CLEARLY LABELED.
 B. ACCEPTABLE MANUFACTURERS ARE: ENVIRO-TEC, PRICE, TITUS, YORK/JCI, TRANE, KRUEGER.
 C. REFER TO SCHEDULE FOR MINIMUM SETPOINTS.

REMARKS:
 1. 7 DAY PROGRAMMABLE THERMOSTAT
 2. SINGLE POINT CONNECTION AND FUSED DISCONNECT FOR EACH UNIT
 3. ALL BOXES OVER 2,000 CFM TO CONTAIN A DEDICATED SMOKE DETECTOR IN THE RETURN AIR PATH OF THAT SPECIFIC UNIT. COORDINATE FINAL LOCATION WITH AHL
 4. BOXES SHALL BE DDC
 5. BOXES SHALL BE COMPLETE WITH BRAND NAME DDC ELECTRONIC CONTROLS AND CONNECTED TO BUILDING AUTOMATION SYSTEM
 6. PROVIDE 120V TO 24V CONTROL TRANSFORMER
 7. INLET DUCT SIZE SHALL MATCH THE BOX SIZE AS SCHEDULED. INSTALLED MAXIMUM OF 5' OF FLEXIBLE DUCTWORK AT THE PRIMARY INLET OF THE BOX



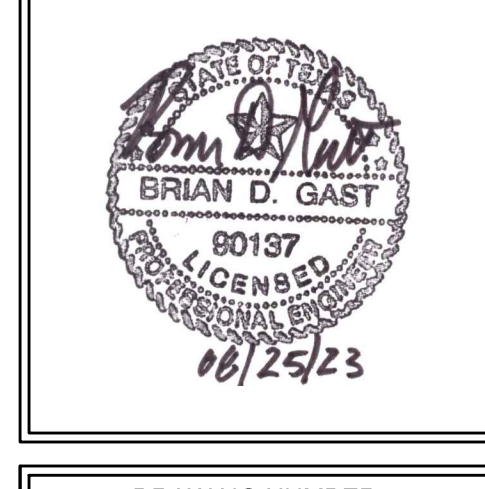
PROJECT:
ALLIED SOLUTIONS SUITE 2500 RENOVATION PLANO, TX

SCOPE DRAWINGS:
 These drawings indicate the general scope of the project. The drawings are not to be used for the procurement of equipment or materials. The drawings are not to be used for the procurement of equipment or materials. The drawings are not to be used for the procurement of equipment or materials.

REVISIONS:

ISSUE DATE: 08/25/2023
 DRAWN BY: [Blank]
 CHECKED BY: [Blank]

DRAWING TITLE:
MECHANICAL FLOOR PLAN



DRAWING NUMBER:
M201

PROJECT NUMBER:
2022082

CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES

AOS JOB #: 1488-012-23