ABBREVIATIONS AND SYMBOLS

ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

MECHANICAL

PIPING DESIGNATIONS

CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HPWR	HEAT PUMP WATER RETURN
E	EXPANSION LINE
CD	CONDENSATE DRAIN

MECHANICAL SYMBOLS

- NEW FAN POWERED BOX
- EXISTING FAN POWERED BOX
- DEMOLISHED FAN POWERED BOX
- RELOCATED FAN POWERED BOX
- NEW VAV
- EXISTING VAV
- DEMOLISHED VAV
- RELOCATED VAV
- NEW DUCTWORK
- EXISTING DUCTWORK
- DEMOLISHED DUCTWORK
- SUPPLY OR OUTSIDE AIR DUCT
- RETURN OR EXHAUST AIR DUCT
- DUCT TURNING UP
- DUCT TURNING DOWN
- 24x12 — CLEAR INSIDE DUCT DIMENSION, FIRST VALUE IS DUCT WIDTH
- DUCT TRANSITION
- DUCT TAP WITH MANUAL VOLUME DAMPER
- NEW SUPPLY AIR GRILLE
- NEW RETURN AIR GRILLE
- NEW EXHAUST AIR GRILLE
- EXISTING SUPPLY AIR GRILLE
- EXISTING RETURN AIR GRILLE
- EXISTING EXHAUST AIR GRILLE
- DEMOLISHED SUPPLY AIR GRILLE
- DEMOLISHED RETURN AIR GRILLE
- DEMOLISHED EXHAUST AIR GRILLE
- SIDEWALL OUTLET
- SIDEWALL INLET
- T — THERMOSTAT/SENSOR
- H — HUMIDISTAT
- S — DUCT SMOKE DETECTOR

EQUIPMENT DESIGNATIONS

AC	AIR COMPRESSOR
AF	AIR FILTER
AH/AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
BF	BOOSTER FAN
CP	CIRCULATING PUMP
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	COOLING TOWER
CU	CONDENSING UNIT, AIR COOLED
CVT	CONSTANT VOLUME FAN TERMINAL COOL/HEAT
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EUH	ELECTRIC UNIT HEATER
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FPB	FAN POWERED BOX
FSD	FIRE/SMOKE COMBINATION DAMPER
GRV	GRAVITY ROOF VENTILATOR
GUH	GAS-FIRED UNIT HEATER
HC	HEATING COIL
HP	HEAT PUMP, AIR SOURCE
HUM	HUMIDIFIER
HX	HEAT EXCHANGER
IRH	INFRARED HEATER
KEF	KITCHEN EXHAUST FAN
KSF	KITCHEN SUPPLY FAN
MAU	MAKE-UP AIR UNIT
MD	MOTORIZED DAMPER
RTU	ROOF TOP UNIT
SA	SOUND ATTENUATOR
SD	SMOKE DAMPER
SF	SUPPLY FAN
VAV	VARIABLE VOLUME TERMINAL - COOL ONLY
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VSD	VARIABLE SPEED DRIVE
VVT	VARIABLE VOLUME & TEMPERATURE
WH	WALL HEATER
WSHP	HEAT PUMP, WATER SOURCE

MECHANICAL SYMBOLS

- FD — MANUAL VOLUME DAMPER (VD)
- FIRE DAMPER (FD)
- SD — SMOKE DAMPER (SD)
- FSD — FIRE/SMOKE COMBINATION DAMPER (FSD)
- M — AUTOMATIC DAMPER, OPPOSED BLADE
- M — AUTOMATIC DAMPER, PARALLEL BLADE
- BDD — BACK DRAFT DAMPER

PLUMBING

PIPING SYMBOLS

- PIPING UP
- PIPING DOWN
- CAPPED PIPE TERMINATION
- CONNECTION BOTTOM OF MAIN
- CONNECTION TOP OF MAIN
- DIRECTION OF FLOW
- SLOPE DOWN IN DIRECTION SHOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- ANGLE VALVE
- AIR VENT
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- DOUBLE CLEANOUT
- EXPANSION JOINT
- GAS COCK
- GATE VALVE
- GAUGE COCK
- GLOBE VALVE
- HOSE BIBB OR HYDRANT
- HYDRAULIC SHOCK ARRESTOR
- P — PRESSURE GAUGE
- PRESSURE REGULATING VALVE
- SOLENOID VALVE
- STRAINER
- THERMOMETER
- THERMOMETER WELL
- TEMPERATURE & PRESSURE RELIEF VALVE
- UNION
- P-TRAP
- FLOOR DRAIN/FLOOR SINK WITH P-TRAP
- HUB DRAIN WITH P-TRAP
- FCO/GCO — FLOOR CLEANOUT OR GRADE CLEANOUT
- CO/WCO — CLEANOUT OR WALL CLEANOUT
- DOUBLE CHECK BACKFLOW PREVENTER
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
- CONNECT TO EXISTING

FIRE PROTECTION SYMBOLS

- FIRE DEPARTMENT VALVE WITH CABINET
- FS — FLOW SWITCH
- ALARM VALVE
- DRY PIPE VALVE
- SIAMESE CONNECTION
- EXPOSED TYPE SIAMESE CONNECTION
- INSPECTORS TEST CONNECTION
- MOTOR GONG
- O.S.&Y. VALVE
- T — TAMPER SWITCH
- FLOOR CONTROL VALVE
- FIRE HOSE VALVE

PIPING DESIGNATIONS

	EXISTING TO REMAIN
	EXISTING TO BE REMOVED/DEMOLISHED
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
F	FIRE PROTECTION
G	NATURAL GAS
W	WATER SERVICE
A	COMPRESSED AIR
V	VACUUM
D	INDIRECT WASTE
SS	SANITARY SEWER
	SANITARY VENT
RD	PRIMARY ROOF DRAIN
OD	OVERFLOW ROOF DRAIN
SD	STORM DRAIN
SSD	BELOW GRADE SUB-SOIL DRAIN
AW	ACID WASTE
AV	ACID VENT
GW	GREASE WASTE
TP	TRAP PRIMER SUPPLY

EQUIPMENT DESIGNATIONS

AC	AIR COMPRESSOR
CP	CIRCULATION PUMP
BT	BATHTUB
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FP	FIRE PUMP
FS	FLOOR SINK
HB	HOSE BIBB
HD	HUB DRAIN
JP	JOCKEY PUMP
L	LAVATORY
MS	MOP SINK
NFWH	NON FREEZE WALL HYDRANT
PRV	PRESSURE REDUCING VALVE
REF	REFRIGERATOR
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RV	RELIEF VALVE
S	SINK
SA	SHOCK ARRESTOR
SE	SEWAGE EJECTOR
SH	SHOWER
SP	SUMP PUMP
TD	TRENCH DRAIN
TM	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
U	URINAL
WC	WATER CLOSET
WCB	WASHER CONNECTION BOX
WH	WATER HEATER

MECHANICAL/PLUMBING ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
A/C	ABOVE CEILING
BAS	BUILDING AUTOMATION SYSTEM - SEE EMCS
B/F	BELOW FLOOR
BFF	BELOW FINISHED FLOOR
B/G	BELOW GRADE
BRF	BELOW RAISED FLOOR
CLG	CEILING
CO	CLEANOUT
DCO	DOUBLE CLEANOUT
DS	DOWNSPOUT
EMCS	ENERGY MANAGEMENT & CONTROL SYSTEM
FCO	FLOOR CLEANOUT
FLR	FLOOR
GCO	GRADE CLEANOUT
GW	GREASE WASTE
HW	HOT WATER
HWR	HOT WATER RETURN
MTD	MOUNTED
OD	OVERFLOW DRAIN
ODN	OVERFLOW DOWNSPOUT NOZZLE
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
RV	RELIEF VALVE
SD	STORM DRAIN
SS	SANITARY SEWER
SV	SANITARY VENT
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT

ELECTRICAL

POWER SYMBOLS

- GENERAL PURPOSE RECEPTACLE XX=HEIGHT ABOVE FINISHED FLOOR
- FLOOR GENERAL PURPOSE RECEPTACLE
- CEILING GENERAL PURPOSE RECEPTACLE
- GFCI RECEPTACLE
- 1/2 SWITCHED RECEPTACLE
- QUADRAPLEX RECEPTACLE
- FLOOR QUADRAPLEX RECEPTACLE
- CEILING QUADRAPLEX RECEPTACLE
- USB/DUPLEX RECEPTACLE
- SPECIAL RECEPTACLE
- TV — TELEVISION OUTLET
- TELEPHONE OUTLET
- FLOOR TELEPHONE OUTLET
- CEILING TELEPHONE OUTLET
- DATA OUTLET
- FLOOR DATA OUTLET
- CEILING DATA OUTLET
- TELE/DATA OUTLET
- FLOOR TELE/DATA OUTLET
- CEILING TELE/DATA OUTLET
- JUNCTION BOX - SIZE IN ACCORDANCE WITH NEC FOR SPECIFIC APPLICATION
- FLOOR JUNCTION BOX
- CEILING JUNCTION BOX
- COMBINATION MOTOR STARTER & FUSED DISCONNECT
- NON-FUSED DISCONNECT SWITCH 'WP' INDICATES WEATHER PROOF, MOTOR RATED
- FUSED DISCONNECT SWITCH (EX. 30/15/3 = 30A RATED DISC., 15A FUSES, (EY. 3 PHASE) 'WP' INDICATES WEATHER PROOF, MOTOR RATED
- CIRCUIT BREAKER IN NEMA ENCLOSURE
- MOTOR
- CIRCUIT HOME RUN
- CROSS MARKS INDICATE WIRES (NEUTRAL, HOT, COMMON GROUND, ISOLATED GROUND)
- PANELBOARD (240 VOLT AND BELOW)
- PANELBOARD (480 VOLT)
- TRANSFORMER
- EMERGENCY POWER OFF (EPO) BUTTON
- COPPER GROUND BAR ASSEMBLY
- M — KWH METER

ABBREVIATIONS

AC	ALTERNATING CURRENT
A	AMPS
AFF	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CCTV	CLOSED CIRCUIT T.V.
CLG	CEILING
DP	DISTRIBUTION PANEL
EG	EQUIPMENT GROUND
ELEC	ELECTRIC
EMERG	EMERGENCY
FA	FIRE ALARM
FAAP	FIRE ALARM ANUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FLR	FLOOR
G,GRD	GROUND
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
HV	HIGH VOLTAGE
IG	ISOLATED GROUND
JB	JUNCTION BOX
LTS	LIGHTS
LTG	LIGHTING
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
HTG HT	MOUNTING HEIGHT
P	POLE
PH	PHASE
PB	PULL BOX
PNL	PANEL
REC,RECEP	RECEPTACLE
SS	SAFETY SWITCH
TEL	TELEPHONE
TV	TELEVISION
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE
WP	WEATHER PROOF
WT	WATER TIGHT
XFMR	TRANSFORMER
ø	PHASE

LIGHT FIXTURE LABELING

- A 12 f NL — UPPERCASE LETTER - INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE
  - LOWERCASE LETTER - INDICATED SWITCHING GROUP
  - NUMBER INDICATES CIRCUIT
  - NL - INDICATES NIGHT LIGHT
- A 12 a b — FIXTURE WITH BI-LEVEL SWITCHING. LOWER CASE LETERS INDICATE SWITCH LEGS

LIFE SAFETY SYMBOLS

- UNSWITCHED EMERGENCY FIXTURE WITH BATTERY BACKUP
- EXIT SIGN WITH BATTERY BACKUP
- S — FLUSH MOUNTED CEILING SPEAKER ASSEMBLY WITH BACK BOX, TRANSFORMER, AND CEILING BAFFLE (WHITE)
- FIRE ALARM STROBE - VISUAL ONLY COORDINATE FINISH WITH ARCHITECT
- FIRE ALARM STROBE - COMBINATION AUDIO & VISUAL COORDINATE FINISH WITH ARCHITECT
- FIRE ALARM HORN - AUDIO ONLY COORDINATE FINISH WITH ARCHITECT
- F — FIRE ALARM MANUAL PULL STATION COORDINATE FINISH WITH ARCHITECT
- X — FIRE ALARM SMOKE DETECTOR - 120V W/ BATTERY BACK UP. COORDINATE FINISH WITH ARCHITECT X=DD (DUCT DETECTOR), X=SS (SMOKE STATION) X=ER (ELEVATOR RECALL)
- H — FIRE ALARM HEAT DETECTOR - 120V W/ BATTERY BACK UP COORDINATE FINISH WITH ARCHITECT
- HATCHED FIXTURE INDICATES UNSWITCHED FIXTURE ON EMERGENCY CIRCUIT OR BATTERY PACK BATTERY PACKS SHALL BE SELF-TESTING TYPE AND SHALL BE RATED FOR 90 MINUTES

LIGHT SWITCH SYMBOLS

- $ — SINGLE POLE SWITCH
- $3 — THREE WAY SWITCH
- $4 — FOUR WAY SWITCH
- DIMMER SWITCH
- $WP — WEATHERPROOF SWITCH
- $M — MANUAL MOTOR CONTROLLER, MOTOR RATED
- $OS — OCCUPANCY SENSOR SWITCH
- WALL MOUNTED OCCUPANCY SENSOR
- CEILING MOUNTED OCCUPANCY SENSOR
- PHOTOCELL

CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES

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If sign off meeting is not conducted with designer and signature / comments are not received in accordance with project schedule, consent to drawings is implied.

LUCID Private Offices

Building Name
6275 W. Plano Parkway
Suite 500
Plano,Texas 75093

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SYMBOLS

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MEP0.1

GENERAL NOTES

ALL NOTES MAY NOT APPLY.

MECHANICAL NOTES:

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. COORDINATE THERMOSTAT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. DO NOT INSTALL THERMOSTAT ABOVE DIMMER SWITCH.

8. 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.

9. PROVIDE VIBRATION ISOLATION FOR MOTOR DRIVEN MECHANICAL EQUIPMENT.

10. ALL FANS SHALL CARRY THE CERTIFIED RATING SEAL AUTHORIZED BY AMCA.

11. PROVIDE FLEXIBLE DUCTWORK CONNECTIONS AT EQUIPMENT.

12. 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.

13. INSULATE NEW SUPPLY AND RETURN DUCTWORK AND PLENUMS WITH EITHER EXTERNAL INSULATION TYPE IV DUCT WRAP OR INTERNAL DUCT LINER, 1.5 PCF MINIMUM DENSITY. (SIZES SHOWN ARE AIRSTREAM DIMENSIONS.) DUCTWORK AND PLENUMS WITHIN UNCONDITIONED SPACES SHALL HAVE MINIMUM R-6 INSULATION. EXTERIOR DUCTWORK SHALL HAVE MINIMUM R-8 INSULATION.

14. DIFFUSERS, REGISTERS AND GRILLES SHALL BE BUILDING STANDARD UNLESS NOTED OTHERWISE AND SHALL BE PROVIDE WITH FRAMES COMPATIBLE WITH CEILING TYPE. DO NOT SPAN AIR DEVICES OVER PARTITIONS.

15. 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.

16. 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.

17. COORDINATE ALL WALLS TO DECK WITH EXISTING DUCTWORK AND EXISTING TERMINAL UNITS.

18. 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.

19. PROVIDE NEBB CERTIFIED AIR BALANCE REPORT.

20. 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.

21. INSULATE DOMESTIC HOT WATER AND RECIRCULATION LINES (1" THICK) AND DOMESTIC COLD WATER LINES (1/2" THICK) WITH OWENS CORNING FIBERGLASS 25 ASJ, 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.

22. 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 CISPI 301. VENT PIPING MAY BE SCHEDULE 40 GALVANIZED STEEL, DWV 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.

23. WASTE AND VENT PIPING LOCATED IN A RETURN AIR PLENUM SHALL BE OF MANUFACTURED MATERIAL THAT MEETS ASTM-E-84 REQUIREMENTS.

24. HOT WATER CIRCULATING SYSTEMS OR HOT WATER HEAT TRACE SHALL HAVE TIMECLOCK CAPABLE CONTROL.

25. 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.

26. WATER HEATING EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS WILL HAVE HEAT TRAPS INSTALLED ON THE SUPPLY AND DISCHARGE PIPING.

27. 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.

28. EXISTING EQUIPMENT NOTES:
   A. CONTRACTOR SHALL INSPECT EXISTING PLUMBING AND HVAC EQUIPMENT PRIOR TO SUBMITTING HIS BID.
   B. 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.
   C. 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.

28. PROVIDE INSTALLATION, OPERATION AND MAINTENANCE MANUALS TO THE OWNER.

29. STANDARD NO-HUB COUPLINGS SHALL CONFORM TO CISPI 310 (MOST CURRENT EDITION) AND SHALL BE LISTED BY NSF INTERNATIONAL.

30. HEAVY DUTY COUPLINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM 1540 AND FM 1680 CLASS I.

31. COMPRESSION GASKETS FOR HUB & SPIGOT SHALL CONFORM TO THE REQUIREMENTS OF ASTM STANDARD C 564 AND ASTM C 1563 (MOST CURRENT EDITION)

32. JOINTS FOR PIPE AND FITTINGS SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LOCAL CODE REQUIREMENTS.

33. 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.

34. DRAIN PANS SHALL BE STAINLESS STEEL, DOUBLE SLOPED AND CLEANABLE. REFER TO ASHRAE 62 FOR MINIMUM STANDARDS.

ELECTRICAL NOTES:

1. 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.

2. COORDINATE SWITCH/DIMMER LOCATIONS AND SWITCHING/DIMMING PATTERNS WITH ARCHITECT PRIOR TO INSTALLATION.

3. POKE-THROUGH/FLOOR BOX SPECIFICATIONS SHALL BE AS FOLLOWS:
   DUPLEX – WALKER RC3 (OR EQUIVALENT)
   QUADRAPLEX – WALKER RC4 (OR EQUIVALENT)
   FURNITURE FEED (TWO DEVICES SHOWN) – WALKER RC7FFTC FOR POWER, WALKER RC900AM-114 FOR TELE/DATA (OR EQUIVALENTS)
   FURNITURE FEED (ONE DEVICE SHOWN) – WALKER RC9FFTC COMBINATION POWER/TELE/DATA TOMBSTONE (OR EQUIVALENT)
   SLAB ON GRADE FLOOR BOX – WALKER OMNIBOX 880CS3-1 (OR EQUIVALENT)

4. 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.

5. PROVIDE OUTLET BOXES FOR ALL RECEPTACLES, SWITCHES, TELE/DATA DEVICES, ETC. AS REQUIRED PER PLANS.

6. ALL WET LOCATION RECEPTACLES (WITHIN 6' OF WET LOCATION) SHALL BE RATED 'GFI'. ALL OUTDOOR RECEPTACLES SHALL BE RATED 'WP' AND 'GFI'. ALL VENDING MACHINE RECEPTACLES TO BE GFI PROTECTED.

7. ALL RECEPTACLES SHALL BE GROUNDED. ALL DEVICES TO MATCH BUILDING STANDARD TYPE, U.N.O. ON PLANS. ALL FINISHES SHALL BE SELECTED BY ARCHITECT.

8. COORDINATE WITH BUILDING MANAGEMENT AND STRUCTURAL ENGINEER PRIOR TO INSTALLING ANY PENETRATIONS THROUGH SLABS, FIRE RATED WALLS, AND ROOFS TO VERIFY ANY X-RAY OR OTHER REQUIREMENTS NECESSARY PRIOR TO PERFORMING WORK. FINISHED INSTALLATION SHALL MAINTAIN FIRE PROOF, WATER PROOF, AND STRUCTURAL INTEGRITY OF SYSTEM PENETRATED.

9. ALL 120V AND 277V BRANCH CIRCUITS ARE PROTECTED BY 1P/20A BREAKERS U.N.O. ON PLANS.

10. AT ALL LOCATIONS WHERE MULTIPLE SWITCHES ARE LOCATED TOGETHER, CONTRACTOR SHALL GANG SWITCHES UNDER ONE COVER PLATE.

11. 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.

12. 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.

13. DEMOLISH ALL UNUSED CONDUIT AND WIRING BACK TO SOURCE.

14. 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.

15. 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.

16. 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.

17. 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.

18. FOR EACH SINGLE PHASE OR THREE PHASE MOTOR, CONTRACTOR TO INSTALL LOCAL DISCONNECT. REFERENCE PLANS FOR DISCONNECT TYPE.

19. 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.

20. 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.

21. 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.

22. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO PROPERTY (OR ADJACENT PROPERTY) CAUSED BY HIM DURING CONSTRUCTION AND FOR THE REPLACEMENT/REPAIR THEREOF.

23. 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.

24. ALL NEW EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO PROVIDE AND INSTALL ALL APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION.

25. 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.

26. 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.

27. ALL NEW TRANSFORMERS SHALL U.L. LISTED DRY TYPE. SEE PLANS FOR RATINGS. ALL FLOOR EQUIPMENT SHALL BE MOUNTED ON 4" HOUSEKEEPING PAD.

28. 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.

29. 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.

30. LOCAL DISCONNECTS ARE PROVIDED WITH ALL CRAC (COMPUTER ROOM AIR CONDITIONING) EQUIPMENT U.N.O.

31. 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.

32. 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.

33. UPDATE ALL AFFECTED PANEL SCHEDULES UPON COMPLETION OF WORK. UPDATED SCHEDULES MUST BE TYPED.

34. ALL ELECTRIC ROOM INSTALLATIONS SHALL BE DONE IN SUCH A WAY AS TO MAXIMIZE WALL/FLOOR SPACE FOR FUTURE EQUIPMENT.

35. 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.

36. 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.

37. CONTRACTOR TO INSTALL A GROUNDING SYSTEM THAT FULLY COMPLIES WITH THE NEC AND ANY LOCAL CODES.

38. 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.

39. 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.

40. 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.

41. 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.

42. ALL VERTICAL MOUNTED RECEPTACLES SHALL BE INSTALLED WITH THE GROUND ON TOP. ALL HORIZONTAL RECEPTACLES SHALL BE INSTALLED WITH THE NEUTRAL ON TOP.

DEMOLITION NOTES:

1. 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.

2. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO ARRANGE THE SHUT OFF OF UTILITIES.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. RE-ROUTE AND RE-CONNECT ANY CIRCUIT(S) THAT ARE TO REMAIN IN USE BUT INTERFERES WITH THE NEW CONSTRUCTION.

9. 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.

10. 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 METHOD 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 MATERIAL'S INSTALLATION HARDWARE AND PARTS TO SALVAGED MATERIALS.

11. 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.

12. 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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1 revision 1	04.28.2023
2 revision 2	05.22.2023
3 revision 3	07.10.2023

STATE OF TEXAS
JORDAN P. WEATHERRED
135606
LICENSED
PROFESSIONAL ENGINEER
07/10/23

31,639 rsf

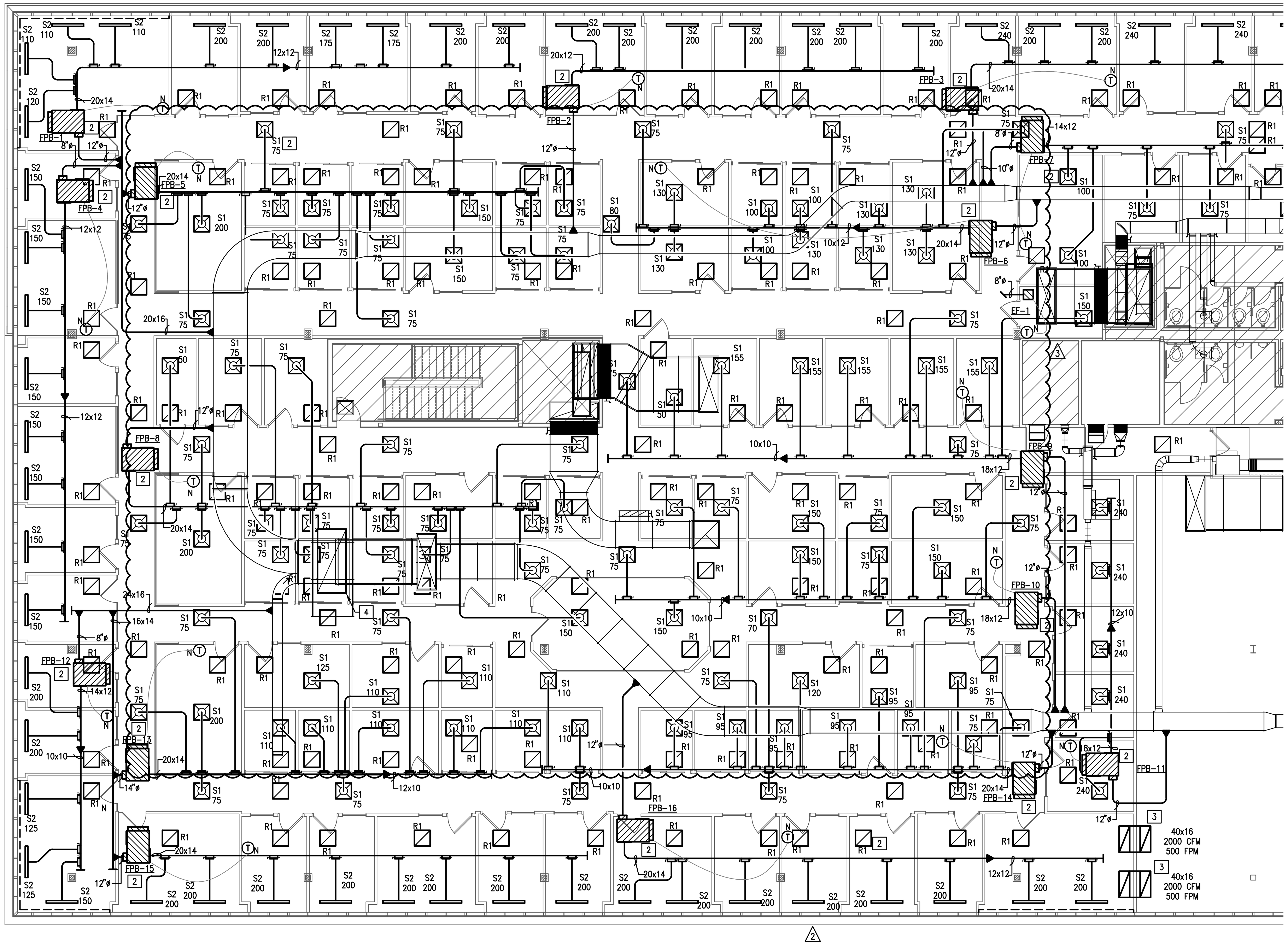
sheet size	project no.
24" X 36"	LCPO0001

drawing title

COVER SHEET NOTES

sheet no.

MEP0.2



1 **FLOOR PLAN - MECHANICAL**

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

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

B. ALL NEW GRILLES SHALL BE PER THE AIR DEVICE SCHEDULE AS SHOWN ON THIS SHEET.

C. VERIFY ALL NEW MECHANICAL EQUIPMENT DOES NOT AFFECT STRUCTURAL INTEGRITY OF EXISTING BUILDING WITH STRUCTURAL ENGINEER BEFORE CONSTRUCTION

D. VERIFY THAT THERE IS SUFFICIENT SPACE TO ROUTE DUCTWORK ABOVE CEILING AS SHOWN ON PLANS. REPORT ANY DEFICIENCIES TO AOS ENGINEERING.

E. MOUNT ALL THERMOSTATS A MINIMUM OF 48" ABOVE FINISHED FLOOR. LOCATIONS OF THERMOSTATS ARE DIAGRAMMATIC. CONFIRM LOCATION OF THERMOSTATS WITH TENANT AND BUILDING ENGINEER PRIOR TO CONSTRUCTION.

F. LABEL ALL HVAC EQUIPMENT AS DESIGNATED ON PLAN WITH 6 INCH BLACK PERMANENT PAINT STENCIL.

G. PROVIDE VIBRATION ISOLATION AND SOUND CONTROL FOR ALL MOTOR DRIVEN EQUIPMENT.

H. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH LATEST EDITIONS OF ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES, AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

I. RELOCATE THERMOSTATS AS SHOWN. PROVIDE NEW THERMOSTATS AS NECESSARY.

J. PROVIDE INSULATION BEHIND ANY THERMOSTAT LOCATED ON AN EXTERIOR WALL TO PREVENT FALSE TEMPERATURE READINGS.

K. ALL DUCTWORK LOCATED IN OPEN TO DECK AREA TO BE INTERNALLY INSULATED SPIRAL DUCTWORK. PROVIDE PAINT GRIP COATING AND COORDINATE EXACT FINISH WITH ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.

L. VERIFY ALL WALLS CONSTRUCTED TO DECK WITH ARCHITECTURAL DRAWINGS BEFORE BID AND CONSTRUCTION. VERIFY PROPER RETURN AIR PATH IS PROVIDED WITH OPENINGS AND RETURN AIR TRANSFER DUCTS IN WALL TO DECK. SIZE AS NECESSARY TO MAINTAIN MAXIMUM AIR VELOCITY OF 500 FPM. BUILD ALL WALLS AROUND EXISTING AND NEW DUCTWORK AS NECESSARY TO MAINTAIN WALL TO DECK AND AVOID INTERSECTION OF DUCTWORK.

M. EXISTING THERMOSTATS MUST BE COVERED AND SEALED DURING CONSTRUCTION.

N. CONSTRUCTION FILTERS MUST BE PLACED ON ALL FAN POWERED BOXES DURING CONSTRUCTION. ALL FILTERS MUST BE REMOVED AFTER CONSTRUCTION AND VERIFIED BY BUILDING MANAGEMENT BEFORE CEILING IS CLOSED.

O. COORDINATE PLACEMENT OF SOUND INSULATION DIRECTLY UNDER RTU ROOF PENETRATIONS WITH ARCHITECTURAL PLANS AND LANDLORD.

P. HVAC TO MATCH BASE BUILDING EMS AND LANDLORD WORK SCOPE. LABEL ALL HVAC ZONES PER BILLINGSLEY LABELING STANDARDS. LABEL ABOVE CEILING HARDWARE AND ENSURE THERMOSTATS ARE LABELED. REVIEW WITH BUILDING ENGINEER.

Q. ALL EQUIPMENT AND DUCTWORK TO BE MOUNTED AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE EXACT MOUNTING HEIGHT IN FIELD WITH TENANT AND PROPERTY MANAGEMENT PRIOR TO CONSTRUCTION. REPORT ANY DEFICIENCIES TO AOS ENGINEERING.

KEY NOTES:

1. ROUTE EXHAUST DUCT INTO OPEN PLENUM SPACE AND TERMINATE WITH OPEN END. PROVIDE ¼" x ¼" STEEL HARDWARE MESH.
2. PROVIDE AND INSTALL A NEW FAN POWERED BOX PER THE FAN POWERED BOX SCHEDULE SHOWN ON SHEET M3.1. MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES FOR MAINTENANCE AND ACCESS. LABEL ZONE, UNIT, AND THERMOSTAT PER LANDLORD LABELING STANDARDS.
3. PROVIDE AND INSTALL RETURN AIR TRANSFER PER THE RETURN AIR TRANSFER DETAIL ON SHEET M4.01. SIZE IS NOTED ON PLANS.
4. STUB RETURN DUCTWORK DOWN THROUGH ROOF AND PROVIDE 90° ELBOW WHERE SPACE ALLOWS FOR SOUND ATTENUATION. TERMINATE WITH OPEN END. PROVIDE 1/4" BY 1/4" STEEL HARDWARE MESH.

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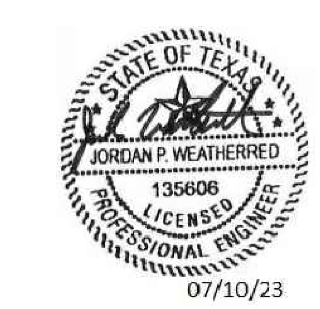


31,639 rsf

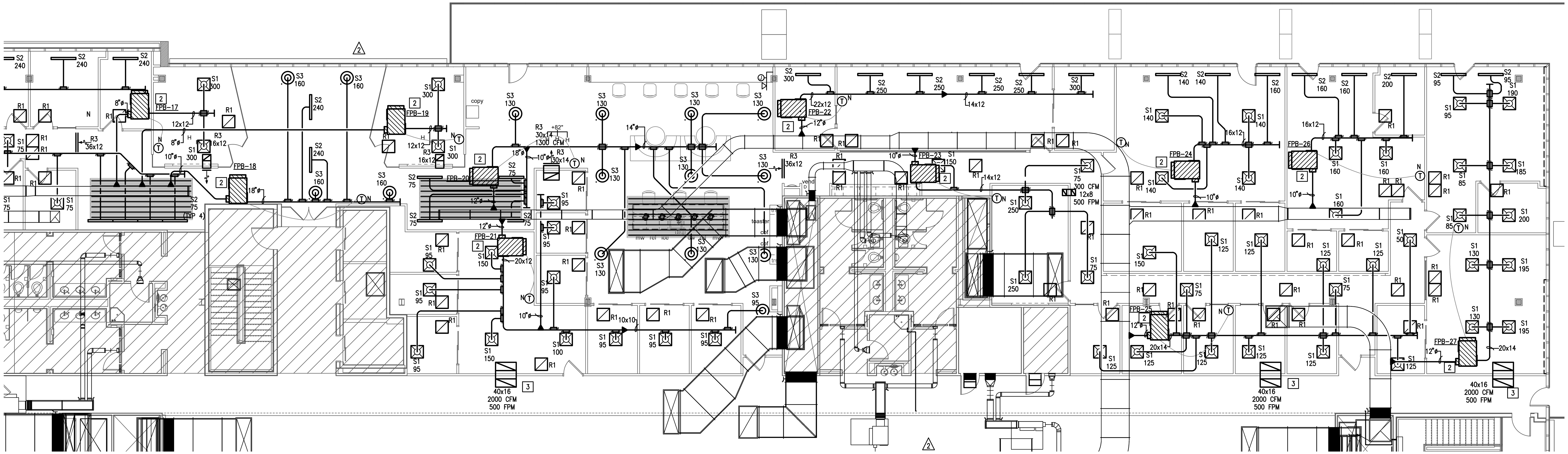
sheet size	project no.
24" X 36"	LCPO0001

drawing title

MECHANICAL FLOOR PLAN

sheet no.

M2.1



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

GENERAL NOTES:

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B. ALL NEW GRILLES SHALL BE PER THE AIR DEVICE SCHEDULE AS SHOWN ON THIS SHEET.

C. VERIFY ALL NEW MECHANICAL EQUIPMENT DOES NOT AFFECT STRUCTURAL INTEGRITY OF EXISTING BUILDING WITH STRUCTURAL ENGINEER BEFORE CONSTRUCTION

D. VERIFY THAT THERE IS SUFFICIENT SPACE TO ROUTE DUCTWORK ABOVE CEILING AS SHOWN ON PLANS. REPORT ANY DEFICIENCIES TO AOS ENGINEERING.

E. MOUNT ALL THERMOSTATS A MINIMUM OF 48" ABOVE FINISHED FLOOR. LOCATIONS OF THERMOSTATS ARE DIAGRAMMATIC. CONFIRM LOCATION OF THERMOSTATS WITH TENANT AND BUILDING ENGINEER PRIOR TO CONSTRUCTION.

F. LABEL ALL HVAC EQUIPMENT AS DESIGNATED ON PLAN WITH 6 INCH BLACK PERMANENT PAINT STENCIL.

G. PROVIDE VIBRATION ISOLATION AND SOUND CONTROL FOR ALL MOTOR DRIVEN EQUIPMENT.

H. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH LATEST EDITIONS OF ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES, AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

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J. PROVIDE INSULATION BEHIND ANY THERMOSTAT LOCATED ON AN EXTERIOR WALL TO PREVENT FALSE TEMPERATURE READINGS.

K. ALL DUCTWORK LOCATED IN OPEN TO DECK AREA TO BE INTERNALLY INSULATED SPIRAL DUCTWORK. PROVIDE PAINT GRIP COATING AND COORDINATE EXACT FINISH WITH ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.

L. VERIFY ALL WALLS CONSTRUCTED TO DECK WITH ARCHITECTURAL DRAWINGS BEFORE BID AND CONSTRUCTION. VERIFY PROPER RETURN AIR PATH IS PROVIDED WITH OPENINGS AND RETURN AIR TRANSFER DUCTS IN WALL TO DECK. SIZE AS NECESSARY TO MAINTAIN MAXIMUM AIR VELOCITY OF 500 FPM. BUILD ALL WALLS AROUND EXISTING AND NEW DUCTWORK AS NECESSARY TO MAINTAIN WALL TO DECK AND AVOID INTERSECTION OF DUCTWORK.

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P. HVAC TO MATCH BASE BUILDING EMS AND LANDLORD WORK SCOPE. LABEL ALL HVAC ZONES PER BILLINGSLEY LABELING STANDARDS. LABEL ABOVE CEILING HARDWARE AND ENSURE THERMOSTATS ARE LABELED. REVIEW WITH BUILDING ENGINEER.

Q. ALL EQUIPMENT AND DUCTWORK TO BE MOUNTED AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE EXACT MOUNTING HEIGHT IN FIELD WITH TENANT AND PROPERTY MANAGEMENT PRIOR TO CONSTRUCTION. REPORT ANY DEFICIENCIES TO AOS ENGINEERING.

KEY NOTES:

1. ROUTE EXHAUST DUCT INTO OPEN PLENUM SPACE AND TERMINATE WITH OPEN END. PROVIDE ¼" x ¼" STEEL HARDWARE MESH.

2. PROVIDE AND INSTALL A NEW FAN POWERED BOX PER THE FAN POWERED BOX SCHEDULE SHOWN ON SHEET M3.1. MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES FOR MAINTENANCE AND ACCESS.

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07/10/23

31,639 rsf

sheet size	project no.
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drawing title

MECHANICAL FLOOR PLAN

sheet no.

M2.2

OUTSIDE AIR REQUIRMENTS (PER IMC TABLE 403.3)

ROOM	AREA (SF) (A_Z)	QUANTITY OF PEOPLE (P_Z)	CFM/PERSON (R_P)	CFM/SF (R_A)	MINIMUM OA (CFM)	AIR DISTRIBUTION EFFECTIVENESS (E_Z)	CORRECTED MINIMUM OA (CFM)	SERVED BY
501	552	8	5	0.06	73	0.8	91	
502	219	10	5	0.06	63	0.8	79	
503	274	4	5	0.06	36	0.8	46	
504	78	1	5	0.06	10	0.8	12	
505	89	1	5	0.06	10	0.8	13	
506	105	1	5	0.06	11	0.8	14	
507	183	0	0	0.06	11	0.8	14	
508	103	1	5	0.06	11	0.8	14	
509	133	1	5	0.06	13	0.8	16	
510	100	1	5	0.06	11	0.8	14	
5100	50	1	5	0.06	8	0.8	10	
5101	50	1	5	0.06	8	0.8	10	
5102	50	1	5	0.06	8	0.8	10	
5103	50	1	5	0.06	8	0.8	10	
5104	50	1	5	0.06	8	0.8	10	
5105	87	1	5	0.06	10	0.8	13	
5106	87	1	5	0.06	10	0.8	13	
5107	50	1	5	0.06	8	0.8	10	
5108	50	1	5	0.06	8	0.8	10	
5109	50	1	5	0.06	8	0.8	10	
511	100	1	5	0.06	11	0.8	14	
5111	111	1	5	0.06	12	0.8	15	
5112	88	1	5	0.06	10	0.8	13	
5113	88	1	5	0.06	10	0.8	13	
5114	88	1	5	0.06	10	0.8	13	
5115	268	0	0	0.06	16	0.8	20	
5116	88	1	5	0.06	10	0.8	13	
5117	88	1	5	0.06	10	0.8	13	
5118	70	1	5	0.12	13	0.8	17	
512	156	1	0	0.60	94	0.8	117	
5120	325	0	0	0.06	20	0.8	24	
5121	88	1	5	0.06	10	0.8	13	
5122	88	1	5	0.06	10	0.8	13	
5123	55	1	5	0.12	12	0.8	15	
5124	50	1	5	0.06	8	0.8	10	
5125	50	1	5	0.06	8	0.8	10	
5126	50	1	5	0.06	8	0.8	10	
5127	303	0	0	0.06	18	0.8	23	
5128	50	1	5	0.06	8	0.8	10	
5129	50	1	5	0.06	8	0.8	10	
513	104	1	5	0.06	11	0.8	14	
5130	87	1	5	0.06	10	0.8	13	
5132	89	1	5	0.06	10	0.8	13	
5133	50	1	5	0.06	8	0.8	10	
5134	50	1	5	0.06	8	0.8	10	
5135/5140	335	0	0	0.06	20	0.8	25	EXISTING SYSTEM
5136	50	1	5	0.06	8	0.8	10	
5137	88	1	5	0.06	10	0.8	13	
5138	68	0	5	0.12	8	0.8	10	
5139	172	0	5	0.06	10	0.8	13	
514	104	1	5	0.06	11	0.8	14	
5141	88	1	5	0.06	10	0.8	13	
5142	50	1	5	0.06	8	0.8	10	
5143	50	1	5	0.06	8	0.8	10	
5144	50	1	5	0.06	8	0.8	10	
5145	89	1	5	0.06	10	0.8	13	
5146	87	1	5	0.06	10	0.8	13	
5147	50	1	5	0.06	8	0.8	10	
5148	50	1	5	0.06	8	0.8	10	
5149	50	1	5	0.06	8	0.8	10	
515	156	1	5	0.06	14	0.8	18	
5150	50	1	5	0.06	8	0.8	10	
5151	50	1	5	0.06	8	0.8	10	
5152	179	1	5	0.06	16	0.8	20	
5153	219	10	5	0.06	63	0.8	79	
5154	327	4	5	0.06	40	0.8	50	
5155	188	1	5	0.06	16	0.8	20	
5156/5157	1143	12	5	0.06	129	0.8	161	
5158	52	1	5	0.06	8	0.8	10	
5159	52	1	5	0.06	8	0.8	10	
516/522	616	0	0	0.06	37	0.8	46	
5160	62	1	5	0.06	9	0.8	11	
5161	88	1	5	0.06	10	0.8	13	
5162	88	1	5	0.06	10	0.8	13	
5163	88	1	5	0.06	10	0.8	13	
5164	49	0	0	0.06	3	0.8	4	
5165	91	0	0	0.06	5	0.8	7	
5166	130	1	5	0.06	13	0.8	16	
5167	264	1	5	0.06	21	0.8	26	
5168/5175	295	0	0	0.06	18	0.8	22	
5169	197	1	5	0.06	17	0.8	21	
517	103	1	5	0.06	11	0.8	14	
5170	130	1	5	0.06	13	0.8	16	
5171	604	1	5	0.06	41	0.8	52	
5172	139	1	5	0.06	13	0.8	17	
5173	88	1	5	0.06	10	0.8	13	
5174	241	1	5	0.06	19	0.8	24	
5176	88	12	5	0.06	65	0.8	82	
5177	88	1	5	0.06	10	0.8	13	
5178	88	1	5	0.06	10	0.8	13	
5179	103	1	5	0.06	11	0.8	14	
518	387	1	5	0.06	28	0.8	35	
5180/5191/5192	88	0	0	0.06	5	0.8	7	
5181	88	1	5	0.06	10	0.8	13	
5182	458	1	5	0.06	32	0.8	41	
5183	87	1	5	0.06	10	0.8	13	
5184	52	1	5	0.06	8	0.8	10	
5185	52	1	5	0.06	8	0.8	10	
5186	52	1	5	0.06	8	0.8	10	
5187	421	1	5	0.06	30	0.8	38	
5188	87	1	5	0.06	10	0.8	13	
5189	431	1	5	0.06	31	0.8	39	
519	156	1	5	0.06	14	0.8	18	
5190	84	1	5	0.06	10	0.8	13	
5193	368	1	5	0.06	27	0.8	34	
5194	52	1	5	0.06	8	0.8	10	
5195	52	1	5	0.06	8	0.8	10	
5196	74	1	5	0.06	9	0.8	12	
520	103	1	5	0.06	11	0.8	14	
521	100	1	5	0.06	11	0.8	14	
523	152	1	5	0.06	14	0.8	18	
524	102	1	5	0.06	11	0.8	14	
525	105	1	5	0.06	11	0.8	14	
526	299	1	5	0.06	23	0.8	29	
527	103	1	5	0.06	11	0.8	14	
528/531/534/537	616	0	0	0.06	37	0.8	46	
529	182	1	5	0.06	16	0.8	20	
530	102	1	5	0.06	11	0.8	14	
532	156	1	5	0.06	14	0.8	18	
533	103	1	5	0.06	11	0.8	14	
535	107	1	5	0.06	11	0.8	14	
536	100	1	5	0.06	11	0.8	14	
538	101	1	5	0.06	11	0.8	14	
539	215	1	5	0.06	18	0.8	22	
540	192	1	5	0.06	17	0.8	21	
541	100	1	5	0.06	11	0.8	14	
542	100	1	5	0.06	11	0.8	14	
543/550	530	0	0	0.06	32	0.8	40	
544	152	1	5	0.06	14	0.8	18	
545	103	1	5	0.06	11	0.8	14	
546	103	1	5	0.06	11	0.8	14	
547	152	1	5	0.06	14	0.8	18	
548	103	1	5	0.06	11	0.8	14	
549	103	1	5	0.06	11	0.8	14	
551	101	1	5	0.06	11	0.8	14	
552	102	1	5	0.06	11	0.8	14	
553	237	1	5	0.06	19	0.8	24	EXISTING SYSTEM
554	99	1	5	0.06	11	0.8	14	
555	80	1	5	0.06	10	0.8	12	
556	83	1	5	0.06	10	0.8	12	
557	85	1	5	0.06	10	0.8	13	
558	91	1	5	0.06	10	0.8	13	
559/560/5111	358	0	0	0.06	21	0.8	27	
561	88	1	5	0.06	10	0.8	13	
562	50	1	5	0.06	8	0.8	10	
563	52	1	5	0.06	8	0.8	10	
564	52	1	5	0.06	8	0.8	10	
565	50	1	5	0.06	8	0.8	10	
566	50	1	5	0.06	8	0.8	10	
567/592/5119/5131	352	0	0	0.06	21	0.8	26	
568	87	1	5	0.06	10	0.8	13	
569	50	1	5	0.06	8	0.8	10	
570	50	1	5	0.06	8	0.8	10	
571	50	1	5	0.06	8	0.8	10	
572	50	1	5	0.06	8	0.8	10	
573	50	1	5	0.06	8	0.8	10	
574	179	1	5	0.06	16	0.8	20	
575	107	1	5	0.06	11	0.8	14	
576	50	1	5	0.06	8	0.8	10	
577	256	0	0	0.06	15	0.8	19	
578	50	1	5	0.06	8	0.8	10	
579	50	1	5	0.06	8	0.8	10	
580	87	1	5	0.06	10	0.8	13	
581	50	1	5	0.06	8	0.8	10	
582	50	1	5	0.06	8	0.8	10	
583	111	1	5	0.06	12	0.8	15	
584	50	1	5	0.06	8	0.8	10	
585	88	1	5	0.06	10	0.8	13	
586	111	1	5	0.06	12	0.8	15	
587	50	1	5	0.06	8	0.8	10	
588	50	1	5	0.06	8	0.8	10	
589	209	0	0	0.06	13	0.8	16	
590	50	1	5	0.06	8	0.8	10	
591	89	1	5	0.06	10	0.8	13	
593	87	1	5	0.06	10	0.8	13	
594	50	1	5	0.06	8	0.8	10	
595	50	1	5	0.06	8	0.8	10	
596	50	1	5	0.06	8	0.8	10	
597	50	1	5	0.06	8	0.8	10	
598	50	1	5	0.06	8	0.8	10	
599	179	1	5	0.06	16	0.8	20	
						TOTAL OUTSIDE AIR REQUIRED	3280	
						TOTAL OUTSIDE AIR PROVIDED	3280	

AIR DEVICE SCHEDULE

DESIG.	MFR.	MODEL #	TYPE	FACE TYPE/SIZE (IN.)	MATERIAL	FINISH	REMARKS
S1	PRICE	SCD	CEILING SUPPLY	24x24	STEEL	PER ARCH	-
S2	PRICE	TBD	SLOT SUPPLY	48x4	STEEL	PER ARCH	-
S3	PRICE	RCD	DUCT MOUNTED SUPPLY	24" DIAMETER	STEEL	PER ARCH	-
R1	PRICE	PDDR	CEILING RETURN	24x24	STEEL	PER ARCH	-
R2	PRICE	SDS	SLOT RETURN	48x4	STEEL	PER ARCH	-
R3	PRICE	530	SIDEWALL RETURN	SIZED NOTED ON PLANS	STEEL	PER ARCH	-

NOTES:
A. MAX NC LEVEL OF DIFFUSERS TO BE 30.
B. ACCEPTABLE MANUFACTURERS ARE: PRICE, TITUS, NAILOR, METALAIRE
C. FRAME AND BORDER TYPES TO MATCH CEILING AND/OR WALL.
D. REFERENCE ARCHITECTURAL REFLECTIVE CEILING PLAN.

REMARKS:

EXHAUST FAN SCHEDULE

GENERAL							FAN			MOTOR			REMARKS
DESIG.	LOCATION	SERVES	MFR.	MODEL #	TYPE	WEIGHT (LBS)	CFM	ESP (IN W.G.)	RPM	DRIVE	VOLTS/PH	HP	
EF-1	CEILING	5138	GREENHECK	SP-B200	CABINET	10	200	0.50	953	DIRECT	115/1	0.03	1-5

NOTES:
A. EQUIPMENT TO BE CLEARLY LABELED.
B. ACCEPTABLE MANUFACTURERS ARE: ACME, TWIN CITY FANS, COOK, GREENHECK, PENNBARRY
C. COORDINATE EXACT LOCATION WITH LANDLORD AND STRUCTURAL ENGINEER.

REMARKS:
1. PRE-WIRED DISCONNECT SWITCH
2. PRE-WIRED SPEED CONTROLLER
3. GRAVITY BACKDRAFT DAMPER
4. REMOTE THERMOSTAT CONTROL. REFER TO PLANS FOR CONTROL LOCATION.
5. SPRING ISOLATION HANGERS

ELECTRIC FAN POWERED BOX SCHEDULE

2

	GENERAL			COOLING						ELECTRIC HEATING COIL			REMARKS
	DESIG.	MFR.	MODEL #	INLET SIZE (IN.)	DESIGN CFM	COOLING MIN. CFM	ESP (IN. WG.)	VOLT/PH	FAN HP	HEATING MIN. CFM	KW	VOLT/PH	
	FPB-1	REMARK 1	REMARK 1	10	1600.0	400	0.5	277/1	1/3	1120	11	460/3	1
	FPB-2	REMARK 1	REMARK 1	10	1400.0	350	0.5	277/1	1/3	980	9	460/3	1
	FPB-3	REMARK 1	REMARK 1	14	1600.0	400	0.5	277/1	3/4	1120	11	460/3	1
	FPB-4	REMARK 1	REMARK 1	12	1200.0	300	0.5	277/1	3/4	840	8	460/3	1
	FPB-5	REMARK 1	REMARK 1	14	1600.0	400	0.5	277/1	3/4	1120	11	460/3	1
	FPB-6	REMARK 1	REMARK 1	14	1600.0	400	0.5	277/1	3/4	1120	11	460/3	1
	FPB-7	REMARK 1	REMARK 1	10	800.0	200	0.5	277/1	1/3	560	5.5	460/3	1
	FPB-8	REMARK 1	REMARK 1	14	1600.0	400	0.5	277/1	3/4	1120	11	460/3	1
	FPB-9	REMARK 1	REMARK 1	12	1200.0	300	0.5	277/1	3/4	840	8	460/3	1
	FPB-10	REMARK 1	REMARK 1	12	1200.0	300	0.5	277/1	3/4	840	8	460/3	1
RTU-5N	FPB-11	REMARK 1	REMARK 1	12	1200.0	300	0.5	277/1	3/4	840	8	460/3	1
	FPB-12	REMARK 1	REMARK 1	10	800.0	200	0.5	277/1	1/3	560	5.5	460/3	1
	FPB-13	REMARK 1	REMARK 1	14	1600.0	400	0.5	277/1	3/4	1120	11	460/3	1
	FPB-14	REMARK 1	REMARK 1	10	1600.0	400	0.5	277/1	1/3	1120	11	460/3	1
	FPB-15	REMARK 1	REMARK 1	10	1600.0	400	0.5	277/1	1/3	1120	11	460/3	1
	FPB-16	REMARK 1	REMARK 1	12	1200.0	300	0.5	277/1	3/4	840	8	460/3	1
	FPB-17	REMARK 1	REMARK 1	8	600.0	150	0.5	277/1	1/3	420	4	460/3	1
	FPB-18	REMARK 1	REMARK 1	10	1000.0	250	0.5	277/1	1/3	700	6.5	460/3	1
	FPB-19	REMARK 1	REMARK 1	8	600.0	150	0.5	277/1	1/3	420	4	460/3	1
	FPB-20	REMARK 1	REMARK 1	12	1600.0	400	0.5	277/1	3/4	1120	11	460/3	1
	FPB-21	REMARK 1	REMARK 1	12	1400.0	350	0.5	277/1	3/4	980	9	460/3	1
	FPB-22	REMARK 1	REMARK 1	10	1600.0	400	0.5	277/1	1/3	1120	11	460/3	1
	FPB-23	REMARK 1	REMARK 1	10	800.0	200	0.5	277/1	1/3	560	5.5	460/3	1
RTU-5S	FPB-24	REMARK 1	REMARK 1	10	1000.0	250	0.5	277/1	1/3	700	6.5	460/3	1
	FPB-25	REMARK 1	REMARK 1	10	1600.0	400	0.5	277/1	1/3	1120	11	460/3	1
	FPB-26	REMARK 1	REMARK 1	10	1000.0	250	0.5	277/1	1/3	700	6.5	460/3	1
	FPB-27	REMARK 1	REMARK 1	14	1600.0	400	0.5	277/1	3/4	1120	11	460/3	1

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. MATCH BUILDING STANDARD, MANUFACTURER, MAKE AND MODEL.

CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES

AOS ENGINEERING
Texas Registered Engineering Firm F-9218
5020 Tennyson Parkway - Plano, TX 75024
Dallas / Fort Worth 214.432.3030
Houston 832.532.2007

AOS JOB #: 4038-001-23

go studio
1201 main street
suite 1370
dallas, texas 75202
t. 214.420.4646
f. 214.420.4656

approved by tenant / landlord

signature | date

If sign off meeting is not conducted with designer and signature / comments are not received in accordance with project schedule, consent to drawings is implied.

LUCID Private Offices

Building Name
6275 W. Plano Parkway
Suite 500
Plano,Texas 75093

issued for	date
permit	03.31.2023
1 revision 1	04.28.2023
2 revision 2	05.22.2023
3 revision 3	07.10.2023

STATE OF TEXAS
JORDAN P. WEATHERRED
135606
LICENSED
PROFESSIONAL ENGINEER
07/10/23

31,639 rsf

sheet size	project no.
24" X 36"	LCPO0001

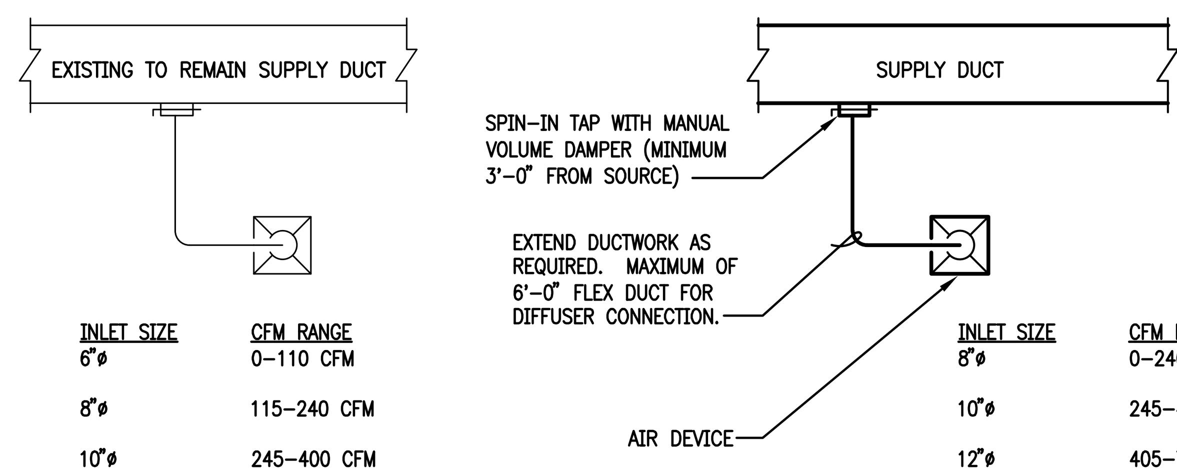
drawing title

MECHANICAL SCHEDULES

sheet no.

M3.1

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

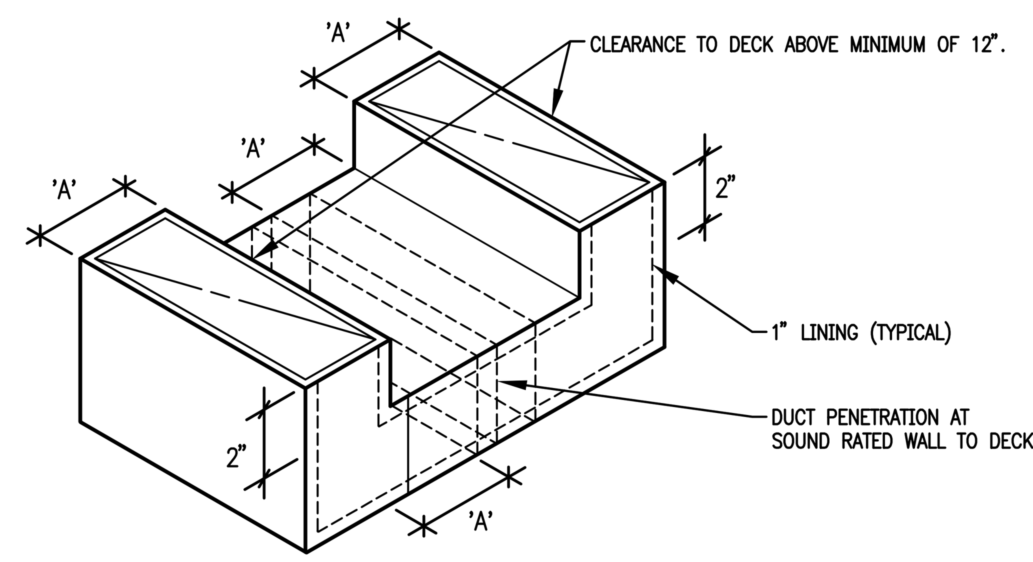


INLET SIZE	CFM RANGE
6"ø	0-110 CFM
8"ø	115-240 CFM
10"ø	245-400 CFM
12"ø	405-700 CFM
14"ø	705-1000 CFM

INLET SIZE	CFM RANGE
8"ø	0-240 CFM
10"ø	245-400 CFM
12"ø	405-700 CFM
14"ø	705-1000 CFM

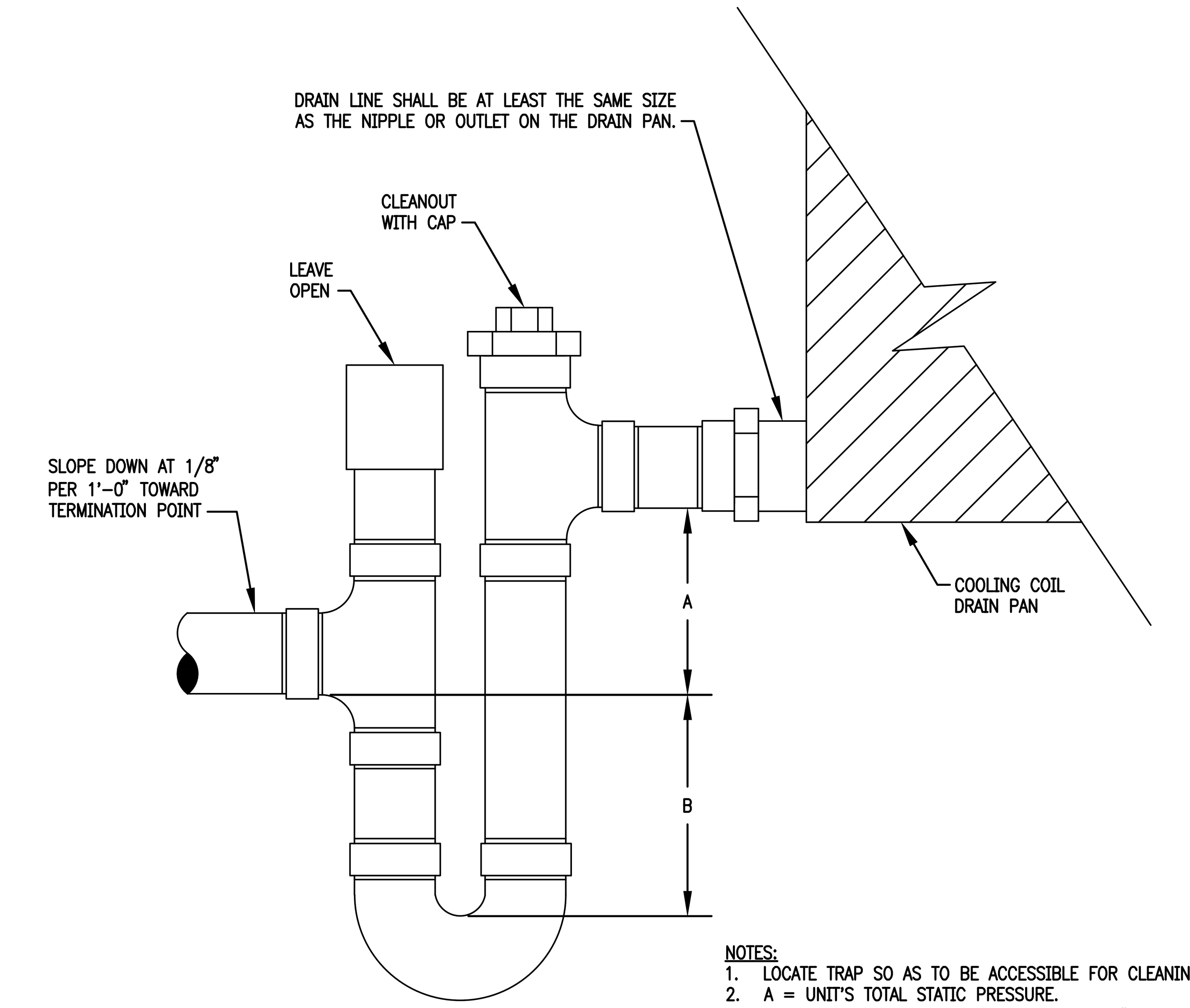
ALL NEW DUCTWORK NECK SIZES TO BE 8"ø AND LARGER

3 SUPPLY DIFFUSER CONNECTION DETAIL
SCALE: NOT TO SCALE



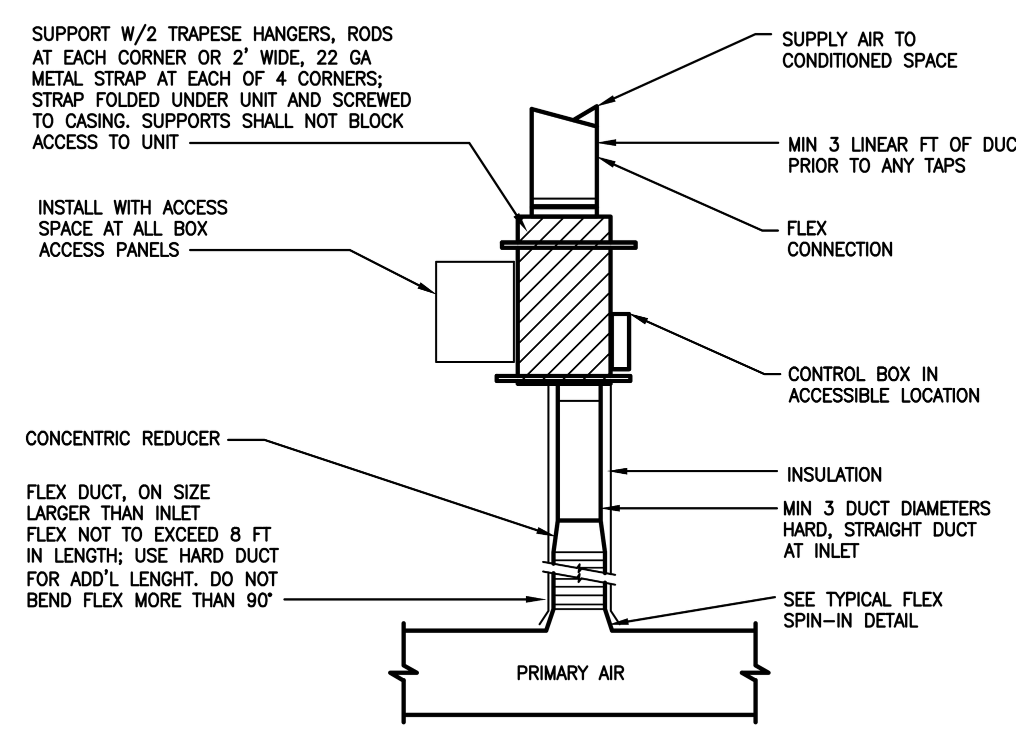
PROVIDE FIRE/SMOKE DAMPER AS REQUIRED.

2 RETURN AIR TRANSFER
SCALE: NOT TO SCALE

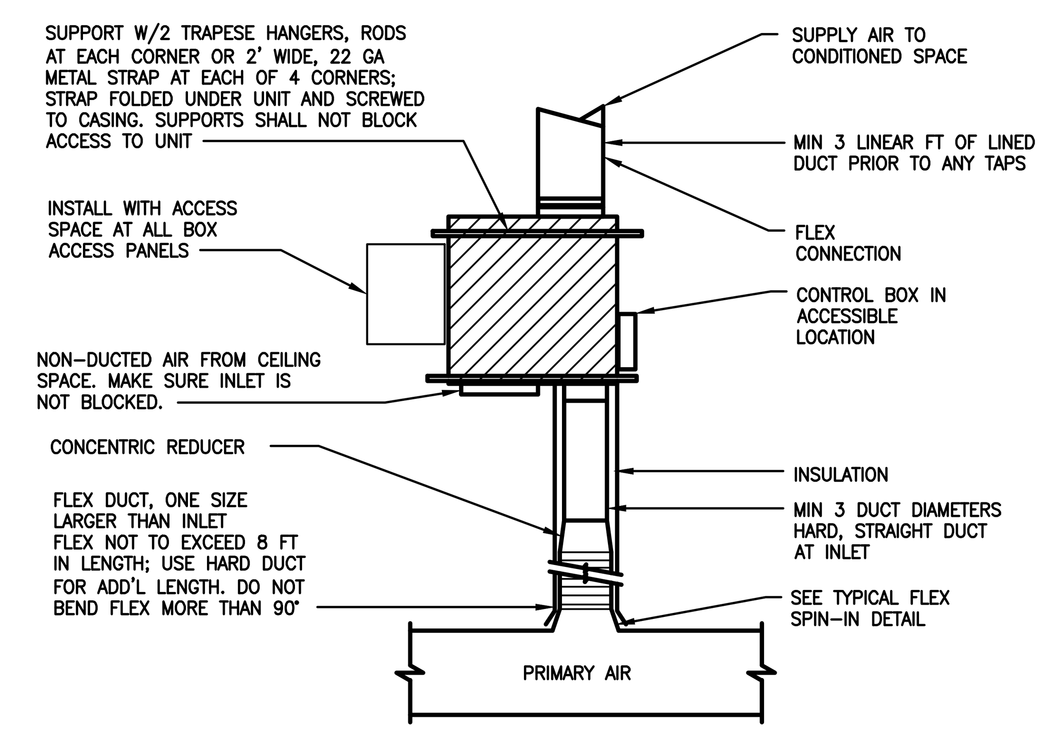


NOTES:
1. LOCATE TRAP SO AS TO BE ACCESSIBLE FOR CLEANING.
2. A = UNIT'S TOTAL STATIC PRESSURE.
3. B = UNIT'S TOTAL STATIC PRESSURE PLUS 1".

1 CONDENSATE P-TRAP DETAIL
SCALE: NOT TO SCALE



5 VAV BOX DETAIL
SCALE: NOT TO SCALE



PROVIDE CONSTRUCTION FILTER ON INLET; REMOVE AT PROJECT COMPLETION

4 FPB BOX DETAIL
SCALE: NOT TO SCALE

CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES

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Texas Registered Engineering Firm F-9218
5020 Tennyson Parkway - Plano, TX 75024
Dallas / Fort Worth 214.432.3030
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approved by tenant / landlord

signature	date

If sign off meeting is not conducted with designer and signature / comments are not received in accordance with project schedule, consent to drawings is implied.

LUCID Private Offices
Building Name
6275 W. Plano Parkway
Suite 500
Plano,Texas 75093

	issued for	date
	permit	03.31.2023
1	revision 1	04.28.2023
2	revision 2	05.22.2023
3	revision 3	07.10.2023

31,639 rsf

sheet size	project no.
24" X 36"	LCPO0001

drawing title

MECHANICAL DETAILS

sheet no.

M4.1