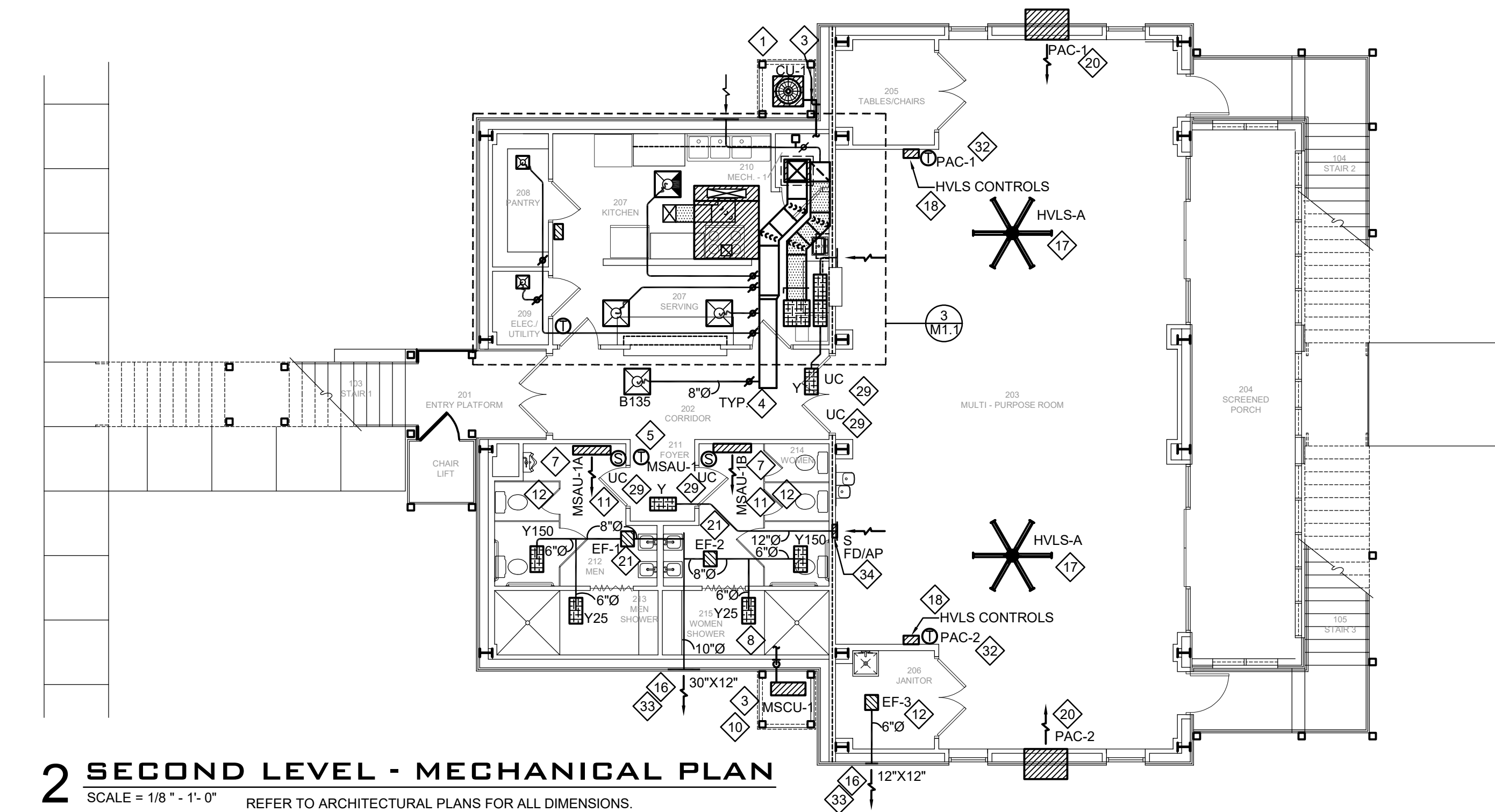
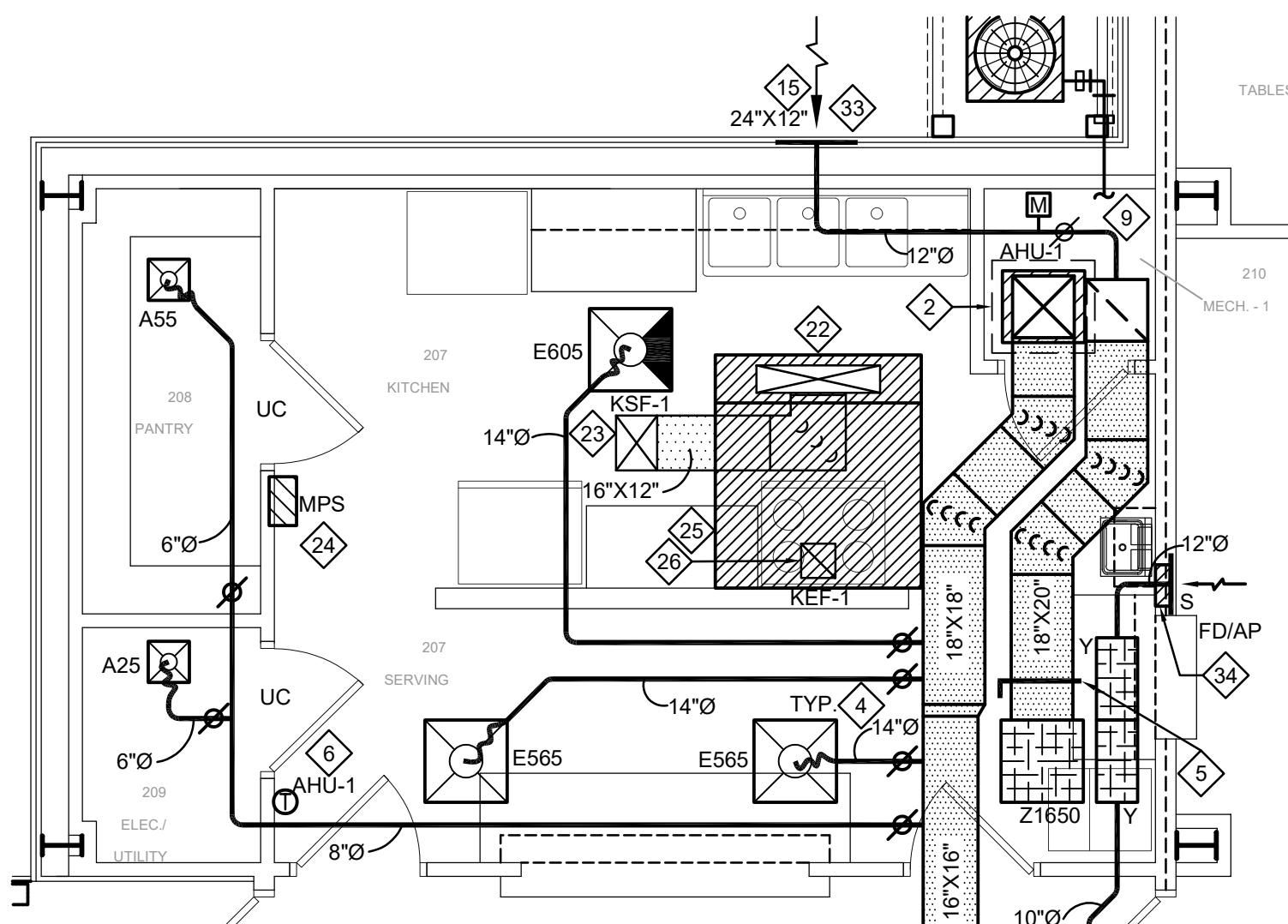


1 GROUND LEVEL - MECHANICAL PLAN
SCALE = 1/8" = 1'-0" REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS.



2 SECOND LEVEL - MECHANICAL PLAN
SCALE = 1/8" = 1'-0" REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS.



3 SECOND LEVEL - ENLARGED PLAN
SCALE = 1/4" = 1'-0" REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS.

GENERAL MECHANICAL NOTES:

- A. ALL WORK SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL CODES TO THE SATISFACTION OF CODE AUTHORITIES HAVING JURISDICTION.
- B. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 90A & 101 AND THE AMERICANS WITH DISABILITIES ACT.
- C. COORDINATE ALL CEILING DEVICES, DUCTWORK, ETC. WITH LIGHTING, STRUCTURE, ETC. THROUGH GENERAL CONTRACTOR. REFER TO ALL DRAWINGS, (STRUCTURAL, PLUMBING, ELECTRICAL, ARCHITECTURAL, ETC.). NOTIFY ARCHITECT/ENGINEER CONCERNING ANY CONFLICTS NOTED PRIOR TO BIDS FOR CLARIFICATION TO THE SATISFACTION OF THE BIDDER. REFER TO SPECIFICATIONS FOR REQUIREMENTS. REFER TO LATEST ARCHITECTURAL REFLECTED CEILING PLAN. COORDINATE ALL CEILING DEVICE LOCATIONS WITH CEILING GRID.
- D. ALL SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR DUCTWORK SHALL BE EXTERNALLY INSULATED. DUCT SIZES SHOWN ARE CLEAR INTERNAL METAL TO METAL. WRAP DUCTWORK EXTERNALLY.
- E. HARDCAST ALL DUCTWORK JOINTS FOR AIRTIGHT SYSTEM. REFER TO DETAILS FOR DUCTWORK TAP, SPLITTER, BRANCH CONFIGURATION, ETC. INSTALL IN ACCORDANCE WITH SMACNA RECOMMENDATIONS AND INSTALLATION GUIDELINES.
- F. CONTRACTOR SHALL SEAL ALL PIPING AND DUCT PENETRATIONS THROUGH WALLS AND FLOORS AS PER THE RATED UL DESIGNATION'S REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR ALL UL RATINGS.
- G. PROVIDE ACCESS PANELS PER SPECIFICATIONS TO ACCESS ALL DEVICES REQUIRING MAINTENANCE/ADJUSTMENTS WHERE NECESSARY. COORDINATE WITH ARCHITECTURAL FINISH SCHEDULE.
- H. ACCESS PANELS THAT ARE INSTALLED IN EXPOSED AREAS SHALL BE FACTORY PRIMED AND FIRD PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
- I. CONTRACTOR SHALL CAP AND SEAL ALL DUCTWORK DURING CONSTRUCTION TO PREVENT CONTAMINATION DUE TO CONSTRUCTION DEBRIS.
- J. ALL VALVES, DAMPERS, ACCESS PANELS, ETC SHALL BE INSTALLED FOR MAXIMUM ACCESSIBILITY.
- K. PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN "AUTO" MODE.

HVAC KEYNOTES:

1. INSTALL CONDENSING UNIT ON ELEVATED PLATFORM PROVIDED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH ARCHITECT'S PLANS AND MANUFACTURER'S RECOMMENDED CLEARANCES. PROVIDE REFRIGERANT PIPING SUPPORT PER DETAILS.
2. INSTALL AHU UNIT ON ANGLE IRON STAND IN EMERGENCY DRAIN PAN. EMERGENCY DRAIN PAN SHALL EXTEND 4" ALL AROUND PERIMETER OF ALL UNITS WITH A 3/4" INSULATED COPPER EMERGENCY DRAIN PIPE WITH BALL VALVE (NC). EXTEND INSULATED COPPER CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL ROOM AND TERMINATE DOWN WITH 2" AIR GAP. PROVIDE FLOAT SWITCH IN EMERGENCY DRAIN PAN AND INTERLOCK WITH AHU FAN MOTOR.
3. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER AND INSTALL REFRIGERANT PIPE IN ACCORDANCE TO MANUFACTURERS RECOMMENDATION. COVER PIPING WITH ALUMINUM EMBOSSED VENTURECLAD. PROVIDE SUCTION LINE ACCUMULATOR AND SOLENOID VALVE AS PER MANUFACTURERS RECOMMENDATION. REFER TO DETAIL FOR REFRIGERANT PIPING WALL PENETRATION. MANUFACTURER SHALL SUBMIT RECOMMENDED REFRIGERANT LIQUID AND SUCTION LINE SIZES AND ACCESSORIES DURING SHOP DRAWINGS. SUPPORT PIPING AS REQUIRED.
4. INSTALL MANUAL DAMPER AT DUCT TAP SPIN FITTING ABOVE LAY-IN CEILING AND BALANCE TO CFM INDICATED AT GRILLE. DUCT TAPS SHALL BE A MINIMUM OF 12" FROM END OF SUPPLY AIR DUCT. (TYPICAL)
5. PROVIDE MANUAL BALANCING DAMPER IN THIS VICINITY. (TYPICAL)
6. INSTALL NEW 7 DAY PROGRAMMABLE THERMOSTAT WHERE INDICATED. LABEL EACH THERMOSTAT TO INDICATE UNIT SERVED.
7. SPACE TEMPERATURE SHALL BE MONITORED BY SENSOR ON UNIT AND CONTROLLED BY THERMOSTAT OUTSIDE OF RESTROOM.
8. REFRIGERANT PIPING RISES UP IN EXTERIOR WALL WHERE SHOWN AND EXTENDS ABOVE CEILING TO RESPECTIVE AC UNIT.
9. PROVIDE A 120/1/60 ELECTRIC MOTORIZED DAMPER AND MANUAL BALANCING DAMPER IN FRESH AIR DUCT THIS VICINITY. INTERLOCK MOTORIZED DAMPER TO RESPECTIVE A/C UNIT TO OPEN WHEN UNIT IS HEATING OR COOLING AND CLOSE WHEN UNIT IS NOT. PROVIDE ALL RELAYS, WIRING, ETC. REQUIRED FOR PROPER OPERATION. INSTALL MOTORIZED DAMPER IN AN ACCESSIBLE LOCATION. OUTSIDE AIR DUCTWORK SHALL CONNECT TO RETURN AIR DUCT AFTER THE RETURN AIR DAMPER.
10. INSTALL MINI-SPLIT CONDENSING UNIT ON ELEVATED PLATFORM PROVIDED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MANUFACTURER'S RECOMMENDED CLEARANCES. PROVIDE REFRIGERANT PIPING SUPPORT PER DETAILS.
11. INSTALL WALL-MOUNTED MINI-SPLIT UNIT ABOVE DOOR. CONDENSATE DRAIN LINE SHALL TERMINATE INTO CONDENSATE HEADER.
12. OCCUPANCY SENSOR SHALL ACTIVATE EXHAUST FAN WITH TIMER. MECHANICAL CONTRACTOR SHALL PROVIDE SENSOR AND TIMER AND ELECTRICAL CONTRACTOR SHALL INSTALL SENSOR AND TIMER.
13. INSTALL INTAKE LOUVER (GREENHECK MODEL EVH-501D, COLOR BY ARCHITECT) WITH 120V MOTORIZED DAMPER (RUSKIN CD50 OR GREENHECK VCD-40), ACTUATOR, AND END SWITCH APPROXIMATELY WHERE SHOWN. MOTORIZED DAMPER SHALL BE INTERLOCKED WITH ASSOCIATED FAN. FAN SHALL NOT ENERGIZE UNTIL DAMPER IS FULLY OPENED. INSTALL DAMPER IN SHEET METAL SLEEVE AND PROVIDE GALVANIZED EXPANDED METAL GRILLE TO CONCEAL ALL MOVING PARTS. LOUVER SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
14. BOTTOM OF OUTSIDE AIR LOUVER SHALL BE APPROXIMATELY 3'-0" A.F.F.
15. BOTTOM OF OUTSIDE AIR LOUVER SHALL BE APPROXIMATELY 22'-0" A.F.F.
16. BOTTOM OF EXHAUST AIR LOUVER SHALL BE APPROXIMATELY 22'-0" A.F.F.
17. INSTALL HIGH VOLUME LOW SPEED FAN IN THIS VICINITY. BOTTOM OF FAN SHALL BE APPROXIMATELY 8'-8" A.F.F. COORDINATE FINAL MOUNTING HEIGHT IN FIELD WITH EXISTING STRUCTURE AND WITH ELECTRICAL CONTRACTOR FOR LIGHTING AND FAN HEIGHT. PROVIDE EXTENSION MOUNTING ROD AND ALL ASSOCIATED ACCESSORIES FOR PROPER INSTALLATION.
18. INSTALL HVLS FAN CONTROLLER ON WALL IN THIS VICINITY. COORDINATE LOCATION WITH ARCHITECT AND GENERAL CONTRACTOR.
19. PROVIDE AND INSTALL BOTTOM OF ELECTRICAL UNIT HEATER APPROXIMATELY 9'-6" A.F.F. IN THIS VICINITY FOR FREEZE PROTECTION (REZNOR MODEL EUH, 240/1/60, 10 KW, 34, 121 BTUH). PROVIDE ALL NECESSARY ACCESSORIES FOR PROPER SUPPORT AND INSTALLATION. COORDINATE INSTALLATION HEIGHT AND LOCATION WITH ALL TRADES AND MANUFACTURER'S RECOMMENDATIONS.
20. INSTALL THROUGH-WALL AHU UNITS AT 0'-3" A.F.F. PROVIDE ALL NECESSARY ACCESSORIES FOR PROPER INSTALLATION AND SUPPORT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
21. INSTALL INLINE EXHAUST FAN APPROXIMATELY WHERE SHOWN.
22. PROVIDE MAKE-UP AIR TAP WHERE SHOWN.
23. MAKE-UP AIR DUCTWORK EXTENDS THROUGH ROOF WHERE SHOWN. INSTALL KITCHEN SUPPLY FAN (KSF-1) ON ROOF WHERE SHOWN. EXTEND OUTSIDE AIR HOOD TO MAINTAIN A MINIMUM OF 10'-0" FROM ANY EXHAUST AIR.
24. INSTALL KITCHEN HOOD FIRE SUPPRESSION SYSTEM MANUAL PULL STATION AND CONTROLLER IN THIS VICINITY. COORDINATE LOCATION IN FIELD WITH EQUIPMENT, OWNER, AND ARCHITECT.
25. INSTALL KITCHEN HOOD WHERE SHOWN. REFER TO SHEET M3.1 FOR DETAILS.
26. KITCHEN HOOD EXHAUST DUCTWORK RISES UP THROUGH ROOF WHERE SHOWN. INSTALL KITCHEN EXHAUST FAN (KEF-1) ON ROOF WHERE SHOWN.
27. PROVIDE AND INSTALL BOTTOM OF EXHAUST FAN AT 8'-6" A.F.F. IN WALL IN THIS VICINITY. VERIFY LOCATION AND ELEVATION WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION. FAN SHALL HAVE MOTOR ENCLOSURE, GALVANIZED GRAVITY SHUTTER, WALL COLLAR WITH MOUNTING ANGLE, OSHA WIRE GUARD, AND BIRD SCREEN. MAINTAIN 10'-0" MINIMUM BETWEEN EXHAUST FAN AND ANY FRESH AIR OPENING. FAN SHALL BE CONTROLLED BY STARTER WITH ON/OFF/AUTO SWITCH AND THERMOSTAT.
28. MOTOR STARTER (HOA) ON WALL IN NEMA 4X ENCLOSURE IN THIS VICINITY FOR VENTILATION FAN. VERIFY EXACT LOCATION IN FIELD PRIOR TO ROUGH-IN.
29. UNDERCUT DOOR WHERE SHOWN.
30. INSTALL HVLS FAN CONTROLLER IN NEMA 4X ENCLOSURE ON WALL IN THIS VICINITY. COORDINATE LOCATION WITH ARCHITECT AND GENERAL CONTRACTOR.
31. INSTALL HIGH VOLUME LOW SPEED FAN IN THIS VICINITY. BOTTOM OF FAN SHALL BE APPROXIMATELY 8'-2" A.F.F. COORDINATE FINAL MOUNTING HEIGHT IN FIELD WITH EXISTING STRUCTURE AND WITH ELECTRICAL CONTRACTOR FOR LIGHTING AND FAN HEIGHT. PROVIDE EXTENSION MOUNTING ROD AND ALL ASSOCIATED ACCESSORIES FOR PROPER INSTALLATION.
32. INSTALL COMBINATION TEMPERATURE/HUMIDISTAT IN THIS VICINITY.
33. EXHAUST/OUTSIDE AIR LOUVER (GREENHECK EVH-501D, RUSKIN EME5625MDE, OR APPROVED EQUAL, COLOR SPECIFIED BY ARCHITECT) WITH BIRDSCREEN AT SIZE INDICATED IN THIS VICINITY. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND STRUCTURAL DRAWINGS PRIOR TO FABRICATING DUCTWORK. CONTRACTOR SHALL PROVIDE PLENUM BOX FULL SIZE OF LOUVER FOR DUCT CONNECTION.
34. INSTALL FIRE DAMPER IN RATED WALL WITH ACCESS PANEL WHERE SHOWN. ACCESS SHALL BE INSTALLED IN ACCESSIBLE LOCATION.



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