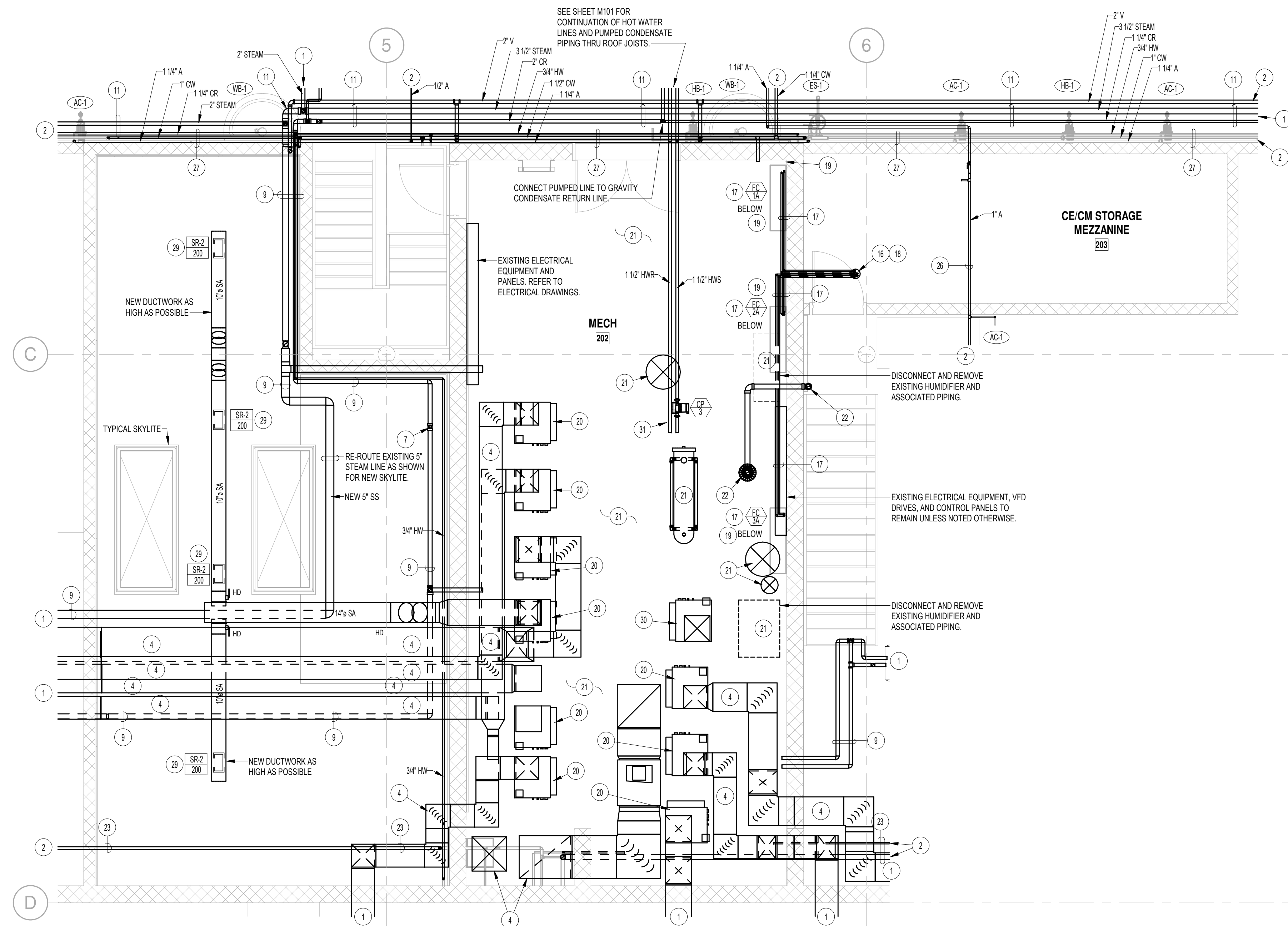


**1 UPPER LEVEL MECH DEMOLITION PLAN**  
 M102 1/8" = 1'-0"



**2 UPPER LEVEL MECH PLAN**  
 M102 1/4" = 1'-0"

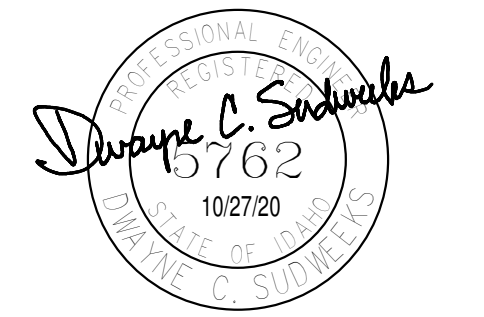
**PLAN NOTES:**

- 1 REFER TO SHEET M101 FOR CONTINUATION OF EXISTING DUCTWORK AND/OR STEAM PIPING.
- 2 REFER TO SHEET P101 FOR CONTINUATION OF EXISTING AND/OR NEW WATER AND VENT PIPING.
- 3 DISCONNECT AND REMOVE EXISTING DUCTWORK AS INDICATED. SEAL ENDS OF DUCTWORK TO REMAIN. REFER TO SHEET M101 FOR NEW DUCTWORK TO BE INSTALLED AND CONNECTED TO EXISTING DUCTWORK AND/OR EXISTING FAN COIL UNITS IN MEZZANINE MECHANICAL ROOM.
- 4 EXISTING MAIN SUPPLY AIR TRUNK DUCTWORK IN CEILING SPACE TO REMAIN UNLESS NOTED OTHERWISE. CONTRACTOR TO FIELD VERIFY EXACT SIZES AND LOCATION OF EXISTING DUCTWORK. REFER TO SHEET M101 FOR NEW BRANCH DUCTS TO BE CONNECTED TO EXISTING TRUNK DUCTS.
- 5 REMOVE EXISTING WALL MOUNTED THERMOSTAT OR SENSOR. REMOVE EXISTING CONTROL WIRING AND CONDUIT BACK TO EXISTING CONTROL PANEL.
- 6 DISCONNECT AND RETAIN EXISTING STEAM UNIT HEATER. REMOVE ALL EXISTING PIPING AS SHOWN. REFER TO SHEET M101 FOR NEW LOCATIONS AND PIPING TO RELOCATED UNIT HEATERS.
- 7 DISCONNECT AND REMOVE EXISTING STEAM UNIT HEATER, FINTURE HEATER AND/OR STEAM COIL IN DUCT AND ALL ASSOCIATED PIPING AND SUPPORTS. FIELD VERIFY EXACT LOCATIONS, SIZES AND PIPING CONFIGURATIONS. CAP EXISTING PIPING AT MAIN LINES.
- 8 DISCONNECT AND REMOVE EXISTING STEAM AND CONDENSATE RETURN LINES TO EXISTING EQUIPMENT AT THIS POINT. CONTRACTOR TO FIELD VERIFY EXACT SIZES AND LOCATIONS OF EXISTING STEAM SYSTEM PIPING. REFER TO SHEET M101 FOR REMOVAL OF ALL DOWNSTREAM STEAM SYSTEM PIPING.
- 9 EXISTING STEAM AND CONDENSATE RETURN PIPING NEAR ROOF TO REMAIN UNLESS NOTED OTHERWISE. FIELD VERIFY EXACT LOCATION OF PIPING AND PROTECT DURING CONSTRUCTION.
- 10 EXISTING STEAM AND CONDENSATE RETURN LINES RISING UP FROM BELOW FLOOR ARE TO REMAIN. PROTECT EXISTING PIPING DURING CONSTRUCTION. EXISTING STEAM VENT THRU ROOF TO REMAIN. EXISTING STEAM AND CONDENSATE RETURN PIPING NEAR ROOF TO REMAIN UNLESS NOTED OTHERWISE. FIELD VERIFY EXACT LOCATION OF PIPING AND PROTECT DURING CONSTRUCTION.
- 11 CONNECT NEW STEAM SUPPLY AND CONDENSATE RETURN PIPING TO EXISTING MAIN LINES. EXTEND NEW PIPING THRU NEW AUTOMOTIVE SHOP AS SHOWN AND CONNECT TO RELOCATED UNIT HEATERS. (REFER TO SHEET M101) KEEP ALL PIPING AS HIGH AS POSSIBLE AND SUPPORT FROM ROOF STRUCTURE.
- 12 ALL EXISTING EXPOSED SNOW MELT SYSTEM PIPING INSIDE BUILDING IN WAREHOUSE AND ON MEZZANINE TO BE REMOVED. FIELD VERIFY EXACT SIZES AND LOCATIONS OF EXISTING PIPING.
- 13 DISCONNECT AND REMOVE EXISTING SNOW MELT CIRCULATION PUMP, AIR SEPARATOR, COMPRESSION TANK, CONTROLS, ETC. ON MEZZANINE LEVEL. ALL SNOW MELT PIPING TO BE REMOVED. ALL STEAM PIPING ASSOCIATED WITH SNOW MELT SYSTEM TO BE REMOVED AND CAPPED AT MAIN LINES. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND PROVIDE PIPE FITTINGS AS REQUIRED.
- 14 DISCONNECT AND RETAIN EXISTING SHELL AND TUBE HEAT EXCHANGER AND TANK STAND. HEAT EXCHANGER AND STAND TO BE RELOCATED TO BASEMENT LEVEL. REFER TO FOUNDATION PLAN (SHEET P100) AND TO LARGE SCALE BASEMENT PLAN (SHEET M001) FOR NEW LOCATION OF EXISTING EQUIPMENT.
- 15 DISCONNECT AND RETAIN EXISTING GLYCOL TANK AND PUMP. AND (2) EXPANSION TANKS. GLYCOL TANK AND PUMP AND EXPANSION TANKS TO BE RELOCATED TO BASEMENT LEVEL. REFER TO FOUNDATION PLAN (SHEET P100) AND TO LARGE SCALE BASEMENT PLAN (SHEET M001) FOR NEW LOCATION OF EXISTING EQUIPMENT.
- 16 DISCONNECT AND REMOVE EXISTING 8" ROUND DUCT THRU ROOF. EXISTING HOLE THRU ROOF MAY BE UTILIZED FOR NEW REFRIGERANT PIPING. REFER TO SHEET M101 FOR NEW SPLIT SYSTEM AND REFRIGERANT PIPING BEING INSTALLED AND TO DETAIL M301 FOR TYPICAL PIPING THRU ROOF.
- 17 PROVIDE AND INSTALL NEW MINI-SPLIT SYSTEM AS SPECIFIED. MOUNT INDOOR UNIT ON WALL AS HIGH AS POSSIBLE IN ROOM ON MAIN LEVEL. LOCATE CONTROLLER ON WALL NEAR DOORWAY. EXTEND REFRIGERANT PIPING THRU EXISTING MEZZANINE FLOOR AND RUN JUST ABOVE FLOOR TO ROOF PENETRATION. MOUNT OUTDOOR UNIT ON ROOF WITH PYRAMID TYPE SUPPORTS. KEEP UNIT AT LEAST 4" ABOVE ROOF LEVEL. CONNECT REFRIGERANT LINES TO OUTDOORS UNIT. REFER TO PIPING DIAGRAM KIM01 FOR TYPICAL CONNECTIONS.
- 18 RISE REFRIGERANT PIPING UP THRU ROOF WITH 4" DIAMETER GOOSENECK PIPE. CONNECT REFRIGERANT LINES TO OUTDOOR UNIT OF MINI-SPLIT SYSTEM. REFER TO DETAIL N401 OR TYPICAL REFRIGERANT PIPE PENETRATION THRU ROOF. RUN 3/4" DRAIN LINE THRU WALL AND DROP DOWN TO EXISTING FLOOR DRAIN.
- 19 MINI-SPLIT FAN COIL SYSTEM SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT 3/4" CONDENSATE DRAIN LINE TO INDOOR UNIT AND RUN TO NEAREST FLOOR DRAIN. COORDINATE DRAIN PIPING WITH OTHER PIPING AND SECURE TO EXISTING WALL. PIPING NOT TO INTERFERE WITH MEZZANINE ACCESS DOORS.
- 20 DISCONNECT EXISTING FAN COIL UNITS FROM DUCTWORK AND PIPING AS REQUIRED TO TEMPORARILY REMOVE. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND THE EXTENT OF WORK REQUIRED. RE-INSTALL ALL EXISTING UNITS AND RECONNECT TO EXISTING DUCTWORK AND PIPING AFTER FLOOR SEALANT HAS BEEN INSTALLED.
- 21 ALL EXISTING PIPING, EQUIPMENT, AND DUCTWORK ON FLOOR OF MEZZANINE MECHANICAL ROOM TO BE REMOVED FOR NEW FLOOR SEALANT AND THEN RE-INSTALLED. THIS TO INCLUDE BUT NOT LIMITED TO ALL FAN COIL UNITS, HEAT EXCHANGERS AND PUMPS, WATER HEATERS AND STORAGE TANKS, STEAM SYSTEM PIPING, DOMESTIC WATER PIPING SYSTEM, WATER SOFTENERS, ETC. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND THE EXTENT OF WORK REQUIRED.
- 22 EXISTING ROOF DRAIN AND PIPING DOWN WALL TO REMAIN. PIPING TO BE PROTECTED DURING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR ANY CHASE WALLS AROUND PIPING. PROVIDE CLEANOUT EXTENSION AS REQUIRED FOR ANY NEW WALLS AROUND EXISTING PIPING.
- 23 EXISTING WATER (LINES) TO REMAIN. PROTECT PIPING DURING CONSTRUCTION AND MAINTAIN CONNECTION TO EXISTING PRESSURE REGULATOR LOCATED IN MEZZANINE MECHANICAL ROOM. REFER TO SHEET P101 FOR NEW FIXTURES TO BE CONNECTED TO EXISTING COLD WATER PIPING.
- 24 EXISTING COMPRESSED AIR PIPING NEAR ROOF AND DOWN WALLS TO BE REMOVED. CONTRACTOR TO FIELD VERIFY EXACT SIZES AND LOCATIONS OF EXISTING PIPING. REFER TO SHEET P100.
- 25 EXISTING AIR COMPRESSOR BELOW STAIRS TO BE DISCONNECTED AND RELOCATED TO NEW COMPRESSOR ROOM. SEE SHEET P101.
- 26 EXISTING COMPRESSED AIR PIPING NEAR ROOF TO REMAIN. PROTECT EXISTING PIPING DURING CONSTRUCTION.
- 27 RUN WATER AND AIR PIPING ALONG WALL IN AUTOMOTIVE SHOP REFER TO SHEET M101 FOR PLACEMENT OF PIPING AND FOR FIXTURES TO BE INSTALLED.
- 28 DISCONNECT AND REMOVE EXISTING EXTERIOR HOSE BIBB AND PIPING IN WALL AND IN MEZZANINE MECHANICAL ROOM.
- 29 MOUNT REGISTER IN BOTTOM OF DUCT. BALANCE EXTRACTION DAMPER TO CFM AS INDICATED. REFER TO DETAIL F301 FOR TYPICAL "W-DUCT" GRILLE INSTALLATION.
- 30 DISCONNECT EXISTING FAN COIL UNITS FROM DUCTWORK AND PIPING AS REQUIRED TO TEMPORARILY REMOVE. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND THE EXTENT OF WORK REQUIRED. RE-INSTALL EXISTING UNIT AND SECURE TO FLOOR. UNIT TO REMAIN DISCONNECTED FROM DUCTWORK AND PIPING FOR FUTURE USE.
- 31 RUN 1-1/2" HWS AND HWR LINE FROM AIR HANDLER IN AUTOMOTIVE SHOP BACK TO MEZZANINE MECHANICAL ROOM. CONNECT NEW 1-1/2" PIPING TO EXISTING HOT WATER SUPPLY AND RETURN LINE. RESPECTIVELY WHICH ARE FEEDING THE EXISTING FAN COIL UNITS. EACH NEW PIPING CONNECTION TO HAVE SHUT-OFF VALVE AND UNION FITTING. FIELD VERIFY ACTUAL PIPING SIZE NEAR EXISTING HEAT EXCHANGER AND CONNECT NEW PIPING TO EXISTING PIPING OF EQUAL OR LARGER PIPE SIZE. REFER TO PIPING DIAGRAM H1M02 FOR NEW IN-LINE PUMP AND TYPICAL CONNECTIONS TO HEAT COIL LOCATED IN AIR HANDLING UNIT.



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**M102**  
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