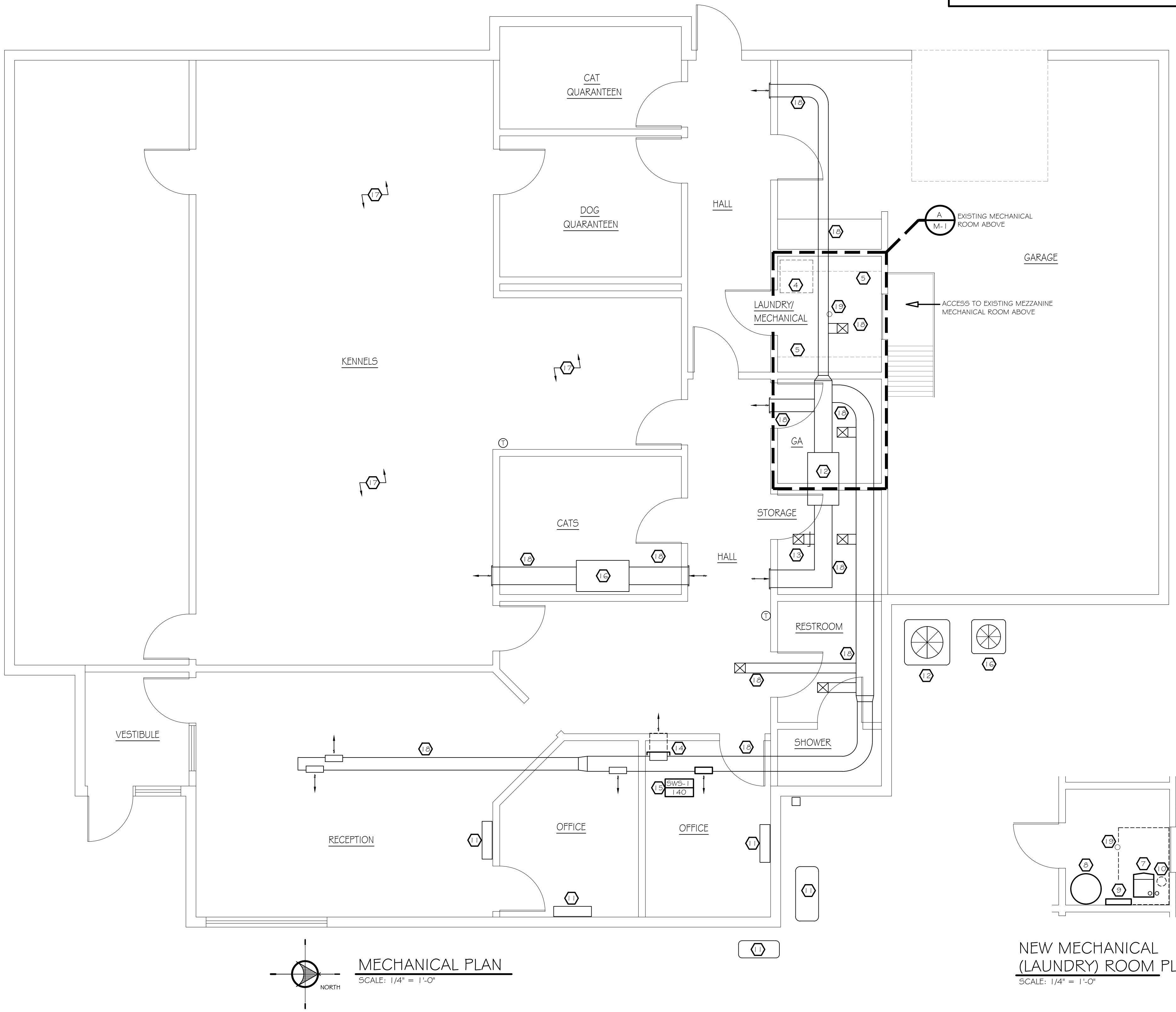
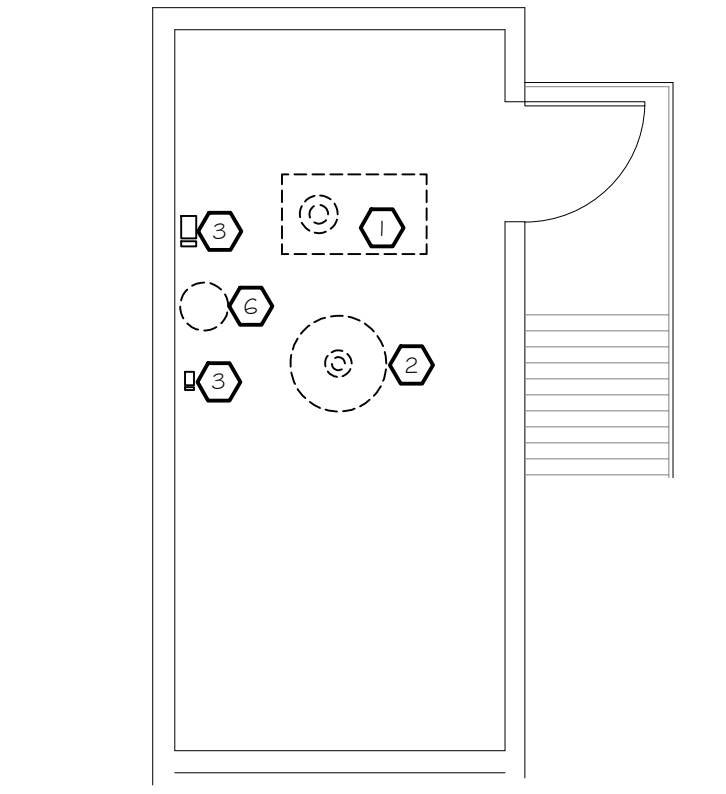




- MECHANICAL GENERAL NOTES**
1. COMPLY WITH THE REQUIREMENTS OF THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), UNIFORM PLUMBING CODE (UPC), INTERNATIONAL FUEL GAS CODE (IFGC), AND INTERNATIONAL ENERGY CONSERVATION CODE (IECC), AND THE CURRENT NATIONAL ELECTRIC CODE (NEC) INCLUDING ALL STATE AMENDMENTS. COMPLY WITH THE AUTHORITY HAVING JURISDICTION AND ALL APPLICABLE CITY, COUNTY, STATE, AND FEDERAL CODES AND REGULATIONS IN EFFECT AT THE BID DATE.
 2. PROVIDE ALL EQUIPMENT, PIPING, MATERIALS, LABOR, PERMITS, AND FEES TO CONSTRUCT A COMPLETE AND OPERATIONAL MECHANICAL SYSTEM FOR THE ENTIRE PROJECT AS SHOWN ON THE DRAWINGS.
 3. PROVIDE ALL ELECTRICAL, DRYWALL, PAINTING, ROOFING, AND ALL OTHER WORK NECESSARY TO COMPLETE THE MECHANICAL SCOPE OF WORK SHOWN ON THE PLANS.
 4. MECHANICAL PLANS ARE SCHEMATIC IN NATURE AND THEREFORE DO NOT SHOW ALL DROPS, RISERS, AND OFFSETS. THE CONTRACTOR SHALL MAKE ALL REQUIRED MODIFICATIONS TO PROVIDE A COMPLETE AND OPERATIONAL MECHANICAL SYSTEM. MAJOR MODIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER.
 5. DO NOT RUN DUCTWORK ABOVE ELECTRICAL PANELS. PROVIDE 4'-0" DEEP X 6'-6" HIGH CLEAR ACCESS SPACE IN FRONT OF PANELS. DO NOT RUN DUCTWORK IN ELECTRICAL ROOMS.

- REFERENCE NOTES**
1. REMOVE EXISTING BOILER AND FLUE. CAP GAS, HEATING HOT WATER LINES, AND MAKE-UP WATER LINES FOR CONNECTION TO NEW BOILER IN NEW GROUND LEVEL MECHANICAL ROOM.
 2. REMOVE EXISTING HOT WATER HEATER AND FLUE. CAP GAS, HW, AND CW LINES FOR CONNECTION TO NEW HOT WATER HEATER IN NEW GROUND LEVEL MECHANICAL ROOM.
 3. EXISTING HEATING WATER PUMPS TO BE RE-USED FOR NEW HEATING WATER SYSTEM. RELOCATED AS REQUIRED TO ACCOMMODATE NEW GROUND LEVEL MECHANICAL ROOM.
 4. RELOCATE WASHER/DRYER FROM EXISTING LAUNDRY ROOM TO GARAGE. VERIFY NEW LOCATION WITH OWNER. PROVIDE NEW DRYER VENT, CW, HW, WASTE, AND ELECTRICAL.
 5. CABINET REMOVAL BY OWNER TO ACCOMMODATE NEW MECHANICAL ROOM.
 6. REPLACE EXISTING EXPANSION TANK.
 7. INSTALL NEW FLOOR MOUNTED (OPTIONAL WALL MOUNT) GAS-FIRED HIGH EFFICIENCY BOILER. (LOCHINVAR KNIGHT KHE155N) EXTEND NEW FLUE AND COMBUSTION AIR PIPING UP THROUGH EXISTING MEZZANINE MECHANICAL ROOM THROUGH ROOF. REVISE GAS PIPING AND PROVIDE NEW GAS PRESSURE REGULATOR. REVISE HEATING HOT WATER PIPING TO EXISTING RADIANT FLOOR SYSTEM AS REQUIRED. RE-USE AND PROVIDE NEW CIRCULATING PUMPS AS REQUIRED. INSULATION ALL NEW EXPOSED HEATING WATER PIPING IN NEW AND MEZZANINE MECHANICAL ROOMS.
 8. INSTALL NEW 40 GALLON STAINLESS INDIRECT WATER HEATER TANK. (TRIANGLE TUBE SMART 40). SEISMICALLY ANCHOR TO MECHANICAL ROOM WALL.
 9. INSTALL NEW TACO ZONE SWITCHING RELAY WITH DOMESTIC WATER PRIORITY.
 10. PROVIDE NEW EXPANSION TANK AND AIR SEPARATOR.
 11. EXISTING SPLIT A/C SYSTEM TO REMAIN.
 12. EXISTING FAN COIL, SUPPLY DUCT, RETURN DUCT, OUTSIDE AIR DUCT, COILING COIL, REFRIGERATION PIPING, CONDENSING UNIT, THERMOSTAT, AND CONTROLS TO REMAIN.
 13. OUTSIDE AIR DUCT AND DAMPER TO REMAIN. REBALANCE OUTSIDE AIR FLOW. **NOT IN CONTRACT**
 14. CAP SUPPLY DUCT AND REMOVE SUPPLY REGISTER. **NOT IN CONTRACT**
 15. ADD NEW SUPPLY REGISTER. **NOT IN CONTRACT**
 16. EXISTING FAN COIL, SUPPLY DUCT, RETURN DUCT, OUTSIDE AIR DUCT, COILING COIL, REFRIGERATION PIPING, CONDENSING UNIT, THERMOSTAT, AND CONTROLS TO REMAIN.
 17. EXISTING HVAC SYSTEM TO REMAIN IN THIS AREA.
 18. EXISTING SUPPLY AND RETURN DUCTS TO REMAIN.
 19. EXISTING FLOOR DRAIN TO REMAIN.
- PRIOR APPROVALS:**
THE FOLLOWING PRODUCTS AND MANUFACTURERS ARE APPROVED IN NAME ONLY AND SHALL MEET ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
CONDENSING BOILER: RBI
BOILER FLUE: DURAVENT
EXPANSION TANKS: PATTERSON
AIR SEPARATOR: PATTERSON

- CONSTRUCTION NOTES:**
1. ALL CABINETS WILL BE REMOVED BY SSL STAFF. REMOVE CABINETS, MOVE WASHER/DRYER, REMOVE CABINETS.
 2. PROVIDE STAND ALONE CONTROL SYSTEM. THERE IS NO CENTRAL CONTROL SYSTEM IN THE BUILDING.
 3. MATCH EXISTING PIPE SIZES WHERE PIPES CONNECT TO THE EXISTING HYDRONIC PIPING.
 4. PROVIDE PIPE INSULATION ON ALL NEW HYDRONIC OF 1.5" TO MEET THE REQUIREMENTS OF THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE.
 5. TYPE L COPPER OR PLASTIC RATED FOR HYDRONIC TEMPERATURE OF UP TO 200 DEGS. PROVIDE INSULATION ON ALL DOMESTIC WATER PIPING.
 6. PROVIDE TWO (2) O7M MANUALS AND AN ELECTRONIC COPY OF ALL NEW EQUIPMENT.



NEW MECHANICAL (LAUNDRY) ROOM PLAN
SCALE: 1/4" = 1'-0"

MEZZANINE MECHANICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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Professional Engineer Seal
MORTENSEN
STATE OF UTAH

DATE
May 20, 2021

PROJECT TITLE
**SOUTH SALT LAKE ANIMAL SHELTER
Mechanical Upgrade Project
2274 South 600 West
South Salt Lake, Utah**

SHEET TITLE
**MECHANICAL PLANS
DETAILS &
SCHEDULES**

PROJECT NUMBER

REVISIONS

SHEET NUMBER
M-1