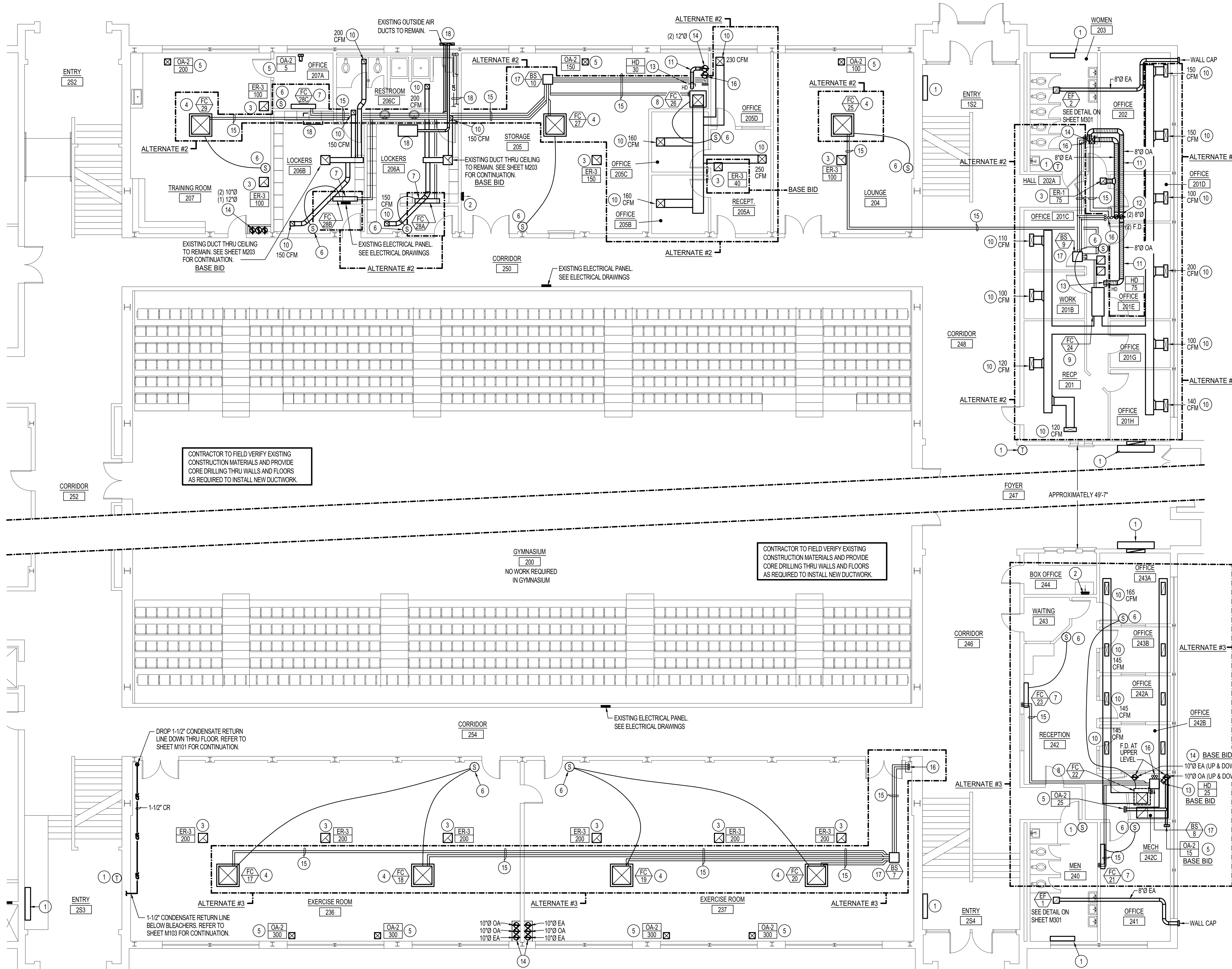
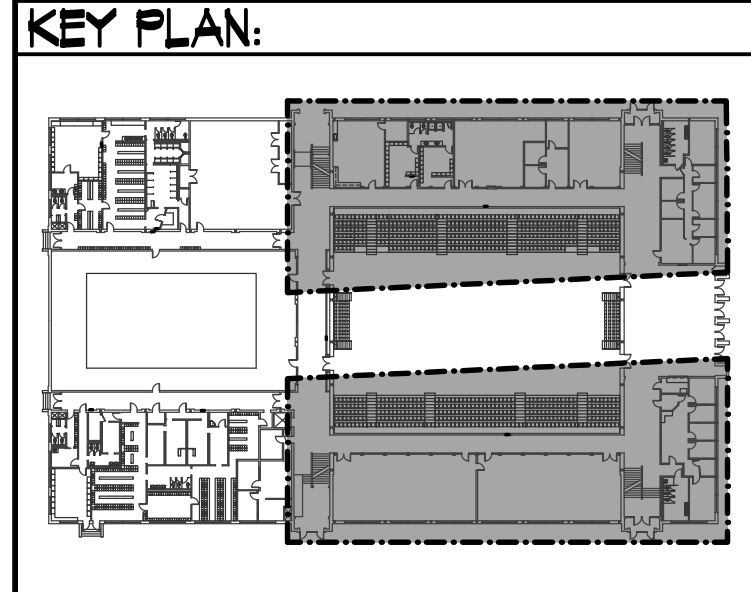


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- ### PLAN NOTES:
- EXISTING STEAM UNIT VENTILATOR, UNIT HEATER AND/OR CONNECTOR TO REMAIN. EXISTING PNEUMATIC THERMOSTAT TO REMAIN. PROTECT EQUIPMENT, PIPING AND CONTROLS DURING CONSTRUCTION AND MAINTAIN CONNECTIONS.
 - EXISTING WALL MOUNTED ELECTRIC HEATER TO REMAIN. PROTECT DURING CONSTRUCTION.
 - PROVIDE AND INSTALL NEW EXHAUST GRILLE AS SPECIFIED IN EXISTING CEILING. REFER TO SHEET M103 FOR NEW DUCTWORK ABOVE CEILINGS.
 - PROVIDE AND INSTALL NEW RECESSED CEILING MOUNTED FAN COIL UNIT AS SPECIFIED. COORDINATE ACTUAL LOCATION WITH BUILDING STRUCTURE AND LIGHT FIXTURES. CONNECT NEW UNIT TO NEW WALL MOUNTED CONTROLS.
 - PROVIDE AND INSTALL NEW OUTSIDE AIR GRILLE AS SPECIFIED. BALANCE TO CFM AS INDICATED. REFER TO SHEET M103 FOR DUCTWORK ABOVE CEILINGS.
 - PROVIDE AND INSTALL NEW DIGITAL CONTROLS ON WALL AND CONNECT TO CORRESPONDING FAN COIL UNIT(S) AS SHOWN.
 - PROVIDE AND INSTALL NEW WALL MOUNTED FAN COIL UNIT AS SPECIFIED. MOUNT AS HIGH AS POSSIBLE ON WALL. COORDINATE WITH BUILDING STRUCTURE AND LIGHT FIXTURES.
 - PROVIDE AND INSTALL NEW VERTICAL DUCTED FAN COIL UNIT AS SPECIFIED. CONNECT TO EXISTING DUCTWORK AND BALANCE EXISTING DIFFUSERS TO CFMS AS INDICATED.
 - PROVIDE AND INSTALL NEW HORIZONTAL DUCTED FAN COIL UNIT AS SPECIFIED. MOUNT ABOVE EXISTING CEILING. CONNECT TO EXISTING DUCTWORK AND BALANCE DIFFUSERS TO CFMS AS INDICATED.
 - EXISTING DIFFUSER TO REMAIN. RE-BALANCE TO CFM AS INDICATED.
 - RUN NEW ROUND DUCTWORK AS HIGH AS POSSIBLE TO CONCRETE FLOOR STRUCTURE ABOVE. DUCTS MAY HAVE TO DROP DOWN AND RISE BACK UP AGAIN TO CROSS UNDER BEAMS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING CHANGES FOR DUCTWORK TO BE TIGHT AGAINST CONCRETE STRUCTURE. VERIFY EXISTING CONDITIONS. DUCTWORK TO BE ABOVE CEILINGS WHERE POSSIBLE.
 - RISE (2) 8" Ø DUCTS UP THRU FLOOR ABOVE. REFER TO SHEET M103 FOR CONTINUATION OF DUCTWORK ON LEVEL ABOVE. PROVIDE 1 HOUR FIRE DAMPER AT UPPER FLOOR PENETRATION IN EACH DUCT. REFER TO DETAIL DM301 FOR TYPICAL INSTALLATION.
 - CONNECT 8" Ø O.A. DUCT TO RETURN DUCT OF NEW FAN COIL UNIT. (VERTICAL OR HORIZONTAL) PROVIDE BALANCING DAMPER AND DUCT TRANSITION AS REQUIRED FOR CONNECTION.
 - EXTEND ROUND OUTSIDE AIR AND/OR EXHAUST AIR DUCTS DOWN THRU ROOM AS SHOWN. DUCT SIZES AS CALLED OUT ON DRAWING. REFER TO SHEET M101 FOR CONTINUATION OF DUCTWORK BELOW FLOOR AND TO SHEET M103 FOR DUCTWORK ON UPPER LEVEL. REFER TO ARCHITECTURAL DRAWINGS FOR CHASE WALLS. PROVIDE 1 HOUR FIRE DAMPER AT MAIN FLOOR PENETRATION IN EACH DUCT. REFER TO DETAIL DM301 FOR TYPICAL INSTALLATION.
 - KEEP REFRIGERANT PIPING UP AS TIGHT AS POSSIBLE TO CONCRETE FLOOR STRUCTURE ABOVE. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND MAKE ADJUSTMENTS TO PIPE ROUTING TO AVOID CONFLICTS WITH STRUCTURE.
 - REFRIGERANT LINES UP FROM BELOW. (REFER TO SHEET M101.) OFFSET PIPING IN CEILING SPACE AS SHOWN TO CONNECT TO BRANCH SELECTOR BOXES OR TO RISE UP TO UPPER LEVEL. REFER TO SHEET M103 FOR CONTINUATION OF REFRIGERANT LINES ON UPPER LEVEL. REFER TO ARCHITECTURAL DRAWINGS FOR CHASE WALLS AROUND DUCTWORK AND PIPING.
 - PROVIDE AND INSTALL BRANCH SELECTOR BOX ABOVE CEILING. CONNECT TO (3) REFRIGERANT LINES FROM HEAT RECOVERY UNIT AND TO CORRESPONDING FAN COIL UNITS AS SHOWN. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - EXISTING STEAM UNIT HEATER, EXISTING OUTSIDE AIR DUCT, AND EXISTING STEAM PIPING DOWN TO BASEMENT TO REMAIN. FIELD VERIFY EXISTING CONDITIONS.



ORIGINAL DRAWING SIGNED BY: DWAYNE C. SUDWEEKS
 DATE ORIGINAL SIGNED: Feb 16, 2021
 ORIGINAL ON FILE AT ENGINEERED SYSTEMS ASSOCIATES
 1355 EAST CENTER, POCATELLO, IDAHO 83201

PROFESSIONAL ENGINEER
 REGISTERED
 DWAYNE C. SUDWEEKS
 5762
 FEB 16 2021
 STATE OF IDAHO

Engineered Systems Associates

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 FAX: (208) 233-0529
 EMAIL: eso@engsystems.com
 ESA JOB NUMBER: 18050

REGISTERED PROFESSIONAL ENGINEER
 BUILDING SAFETY
 REVIEWED FOR CODE COMPLIANCE
 BLD2009-00063

This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.
SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION

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

PROJECT: REED GYM HVAC UPGRADE
 IDAHO STATE UNIVERSITY
 DPW # 19227

POCATELLO, IDAHO

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 ■ Interior Design
 ■ Landscape Architecture
 122 South Main Street ■ Pocatello, Idaho 83204 ■ Tel. (208) 232-3741 ■ Fax. (208) 232-3782
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ASLA
 NCARB
 AIA

SHEET TITLE: **SECOND FLOOR MECHANICAL PLAN**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

DRAWN BY: M. JENSEN

CHECKED BY: D. SUDWEEKS

JOB NUMBER: 18461

PROJECT DATE: FEBRUARY 2021

SHEET

OF

M102

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