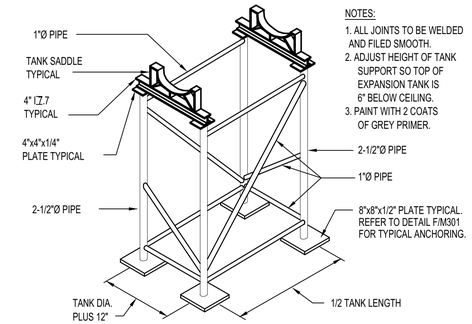
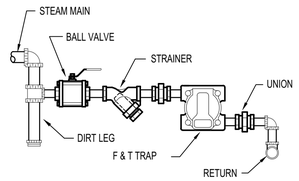
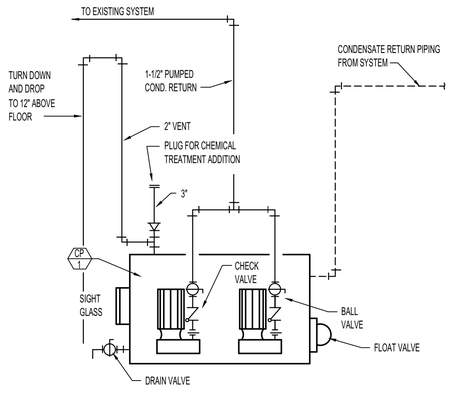


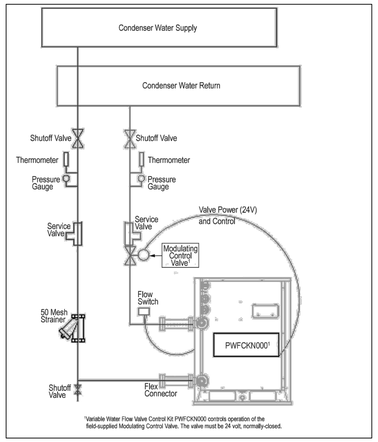
A | TANK STAND DETAIL | NO SCALE



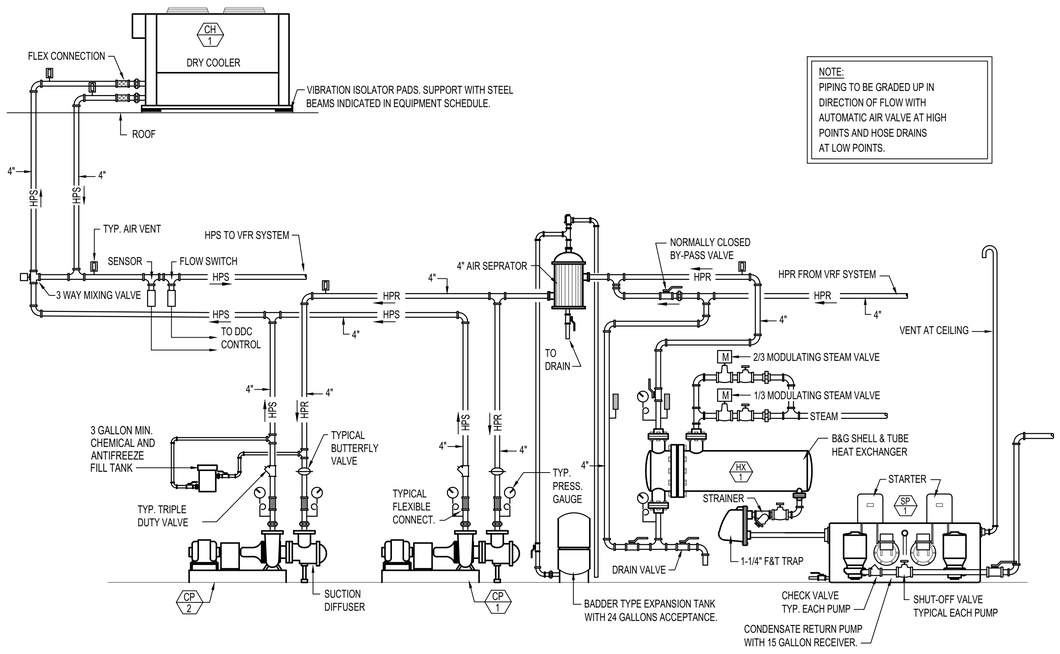
B | DRIP TRAP DETAIL | NO SCALE



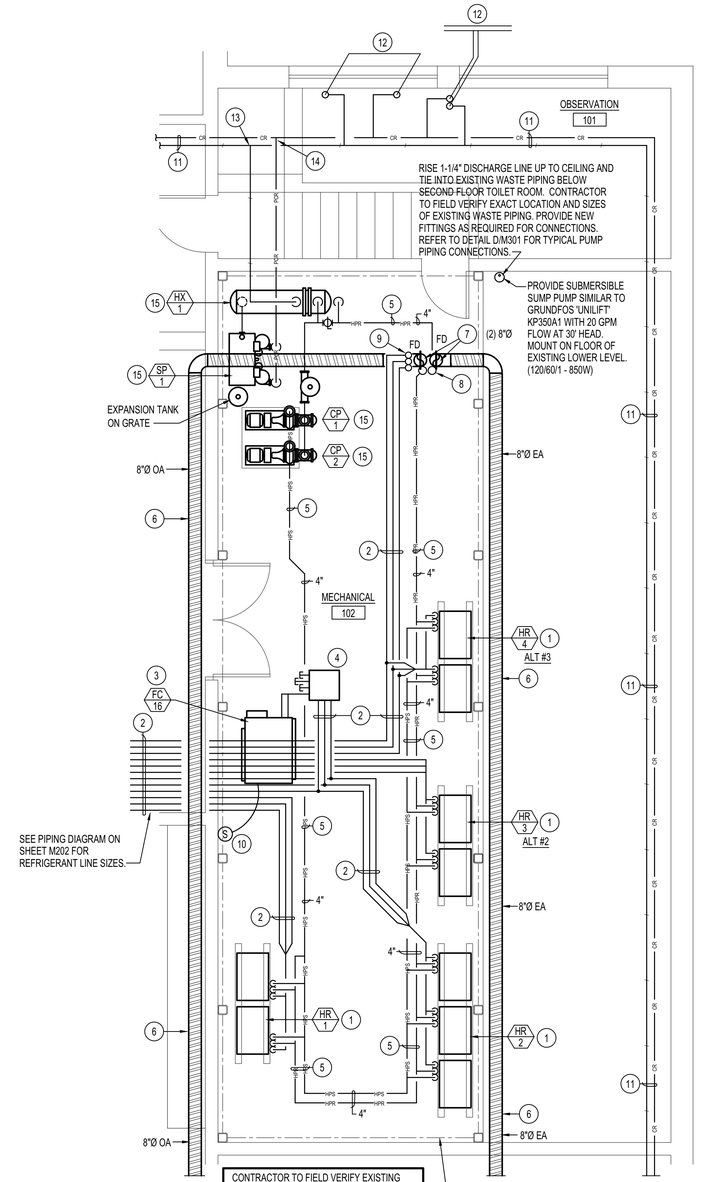
C | CONDENSATE PUMP PIPING DIAGRAM



E | VRF PIPING DIAGRAM | NO SCALE



D | MECHANICAL ROOM PIPING SCHEMATIC | NO SCALE



LARGE SCALE MECHANICAL ROOM 102

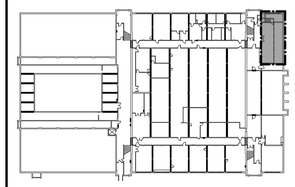
SCALE: 1/4" = 1'-0"

North

PLAN NOTES:

1. PROVIDE AND INSTALL NEW HEAT RECOVERY UNITS AS SPECIFIED. MOUNT UNITS ON MECHANICAL PLATFORM WITH 'SKID' RUNNERS BELOW UNITS. PROVIDE NEOPRENE VIBRATION ISOLATORS UNDER EACH CORNER. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PIPING CONNECTIONS.
2. 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.
3. PROVIDE AND INSTALL NEW HORIZONTAL FAN COIL UNIT AS SPECIFIED. MOUNT AS HIGH AS POSSIBLE. CONNECT TO NEW REFRIGERANT PIPING AND BRANCH SELECTOR BOX AS SHOWN. REFER TO PIPING DIAGRAMS ON SHEET M202.
4. 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.
5. KEEP HEATING/COOLING 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.
6. 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 TO ALLOW DUCTWORK TO BE TIGHT AGAINST CONCRETE STRUCTURE. FIELD VERIFY EXISTING CONDITIONS. DUCTWORK TO BE ABOVE CEILINGS WHERE POSSIBLE.
7. RISE 8" DIAMETER OUTSIDE AIR DUCT AND 8" DIAMETER EXHAUST AIR DUCTS UP THRU FLOOR ABOVE. COORDINATE DUCT RISES WITH EXISTING STRUCTURE AND WALLS ON LEVEL ABOVE. REFER TO SHEET M102 FOR CONTINUATION OF DUCTWORK. PROVIDE 1 HOUR FIRE DAMPER AT MAIN FLOOR PENETRATION IN EACH DUCT. REFER TO DETAIL D/M301 FOR TYPICAL INSTALLATION.
8. RISE HEATING/COOLING PIPING UP THRU FLOOR ABOVE ALONG WITH DUCTWORK. REFER TO SHEET M102 FOR CONTINUATION OF PIPING ON MAIN LEVEL.
9. RISE REFRIGERANT LINES UP THRU FLOOR ABOVE ALONG WITH DUCTWORK. REFER TO SHEET M102 FOR CONTINUATION OF PIPING ON MAIN LEVEL.
10. PROVIDE AND INSTALL NEW DIGITAL CONTROLS ON WALL AND CONNECT TO CORRESPONDING FAN COIL UNIT(S) AS SHOWN.
11. ALL EXISTING STEAM, CONDENSATE RETURN, OR PUMPED CONDENSATE RETURN PIPING IN BASEMENT TO REMAIN UNLESS NOTED OTHERWISE. CONTRACTOR TO FIELD VERIFY EXISTING SIZES AND LOCATIONS OF ALL EXISTING STEAM SYSTEM PIPING. PROTECT DURING CONSTRUCTION.
12. EXISTING STEAM PIPING UP THRU FLOOR TO REMAIN. REFER TO SHEET M102 AND M103 FOR EXISTING EQUIPMENT ON UPPER LEVEL THAT REMAINS.
13. CONNECT NEW 2-1/2" STEAM SUPPLY LINE TO EXISTING 2-1/2" (OR LARGER STEAM SUPPLY NEAR CEILING. RUN TO NEW HEAT EXCHANGER AS SHOWN. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING STEAM SUPPLY PIPING.
14. RISE NEW PUMPED CONDENSATE RETURN LINE UP NEAR CEILING AND CONNECT TO EXISTING CONDENSATE RETURN PIPING. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING CONDENSATE RETURN PIPING.
15. PROVIDE AND INSTALL STEAM TO WATER HEAT EXCHANGER, STEAM CONDENSATE PUMPS, AND HEATING/COOLING WATER CIRCULATING PUMPS AS SPECIFIED. MOUNT HEAT EXCHANGER ON STAND. SEE DETAIL A/M201. REFER TO PIPING DIAGRAM D/M201 FOR TYPICAL PIPING CONNECTIONS.

KEY PLAN:



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 5362 STATE OF IDAHO DWAYNE C. SUDWEEKS 2/16/21

Engineered Systems Associates
1355 EAST CENTER
POCATELLO, IDAHO 83201
PHONE: (208) 233-0501
FAX: (208) 233-0529
EMAIL: esa@engsystems.com
ESA JOB NUMBER: 18050

BLD2009-00063
REVIEWED FOR CODE COMPLIANCE
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

Myers ■ Anderson
■ Architecture
■ Interior Design
■ Landscape Architecture
122 South Main Street ■ Pocatello, Idaho 83204 ■ Tel: (208) 232 - 3741 ■ Fax (208) 232 - 3762
927 Main Street, Suite 300 ■ Evanston, Wyoming 82930 ■ Tel: (307) 789 - 0934
AIA NCARB AS/LA

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

SHEET TITLE:
MECHANICAL SCHEDULES AND DETAILS

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

DRAWN BY: M JENSEN
CHECKED BY: D SUDWEEKS
JOB NUMBER: 18467
PROJECT DATE: FEBRUARY 2021
SHEET M201 OF 12

18050-M201.dwg Feb 16, 2021 - 3:53pm