



**Engineered Systems Associates
Mechanical Engineers**

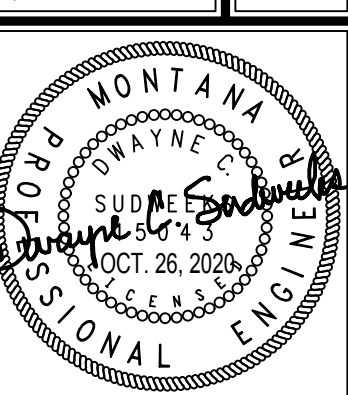
Dwayne Sudweeks
1355 East Center - Pocatello, Idaho 83201
Phone: (208) 233-0501 Fax: (208) 233-0529 email: esa@engsystems.com

NEW HVAC UPGRADE FOR: PROPERTY # 502-7500

LDS ST. IGNATIUS WARD
MISSOULA MONTANA STAKE,
ST. IGNATIUS MONTANA

SHEET TITLE: MECHANICAL / ELEC. FLOOR PLANS

PROJECT:



DRWN. BY:	CKD. BY:
SR	DCS
JOB NO.	DATE:
20069	OCT. 2020

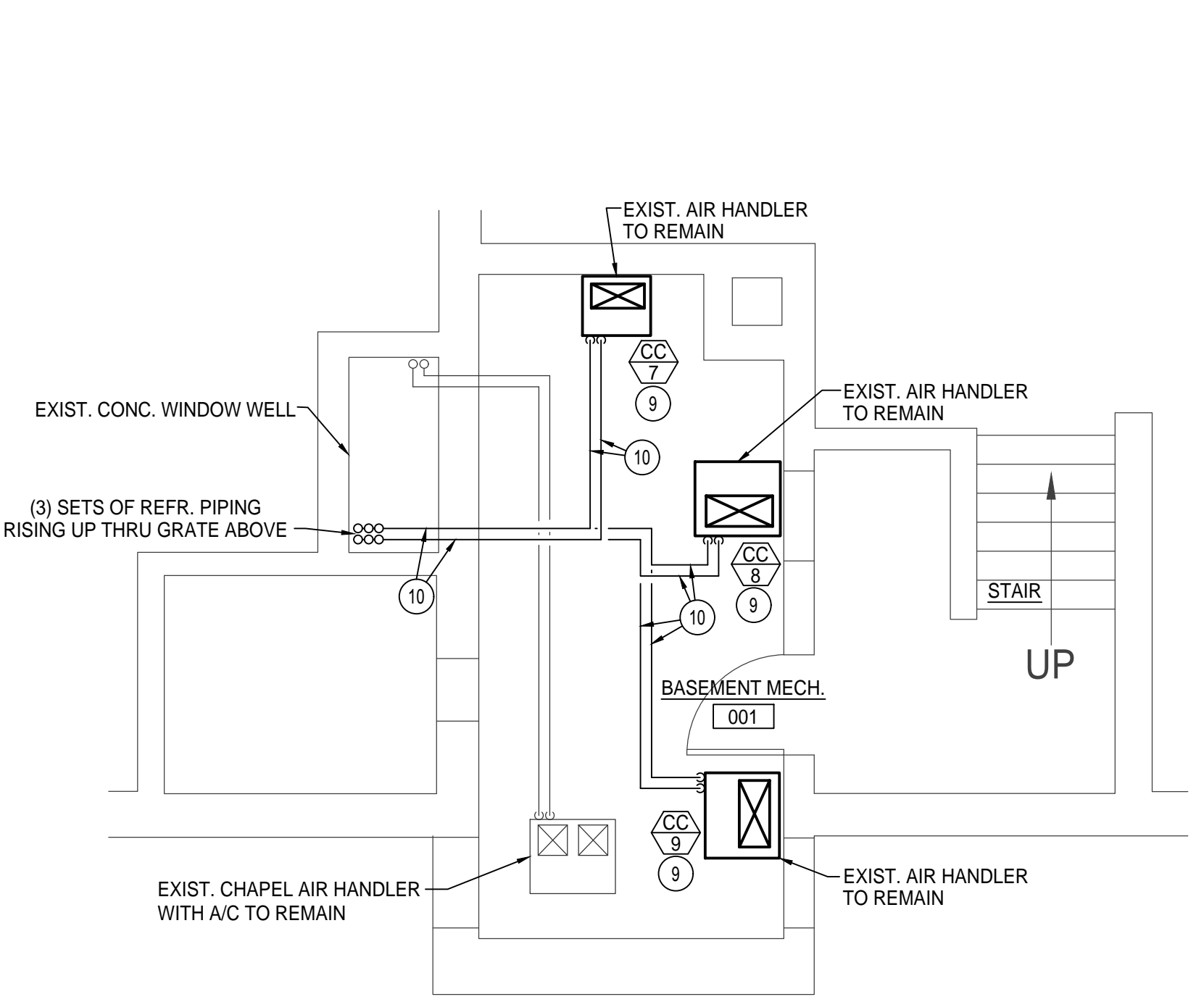
SHEET:
ME-1
OF: TWO

PLAN NOTES:

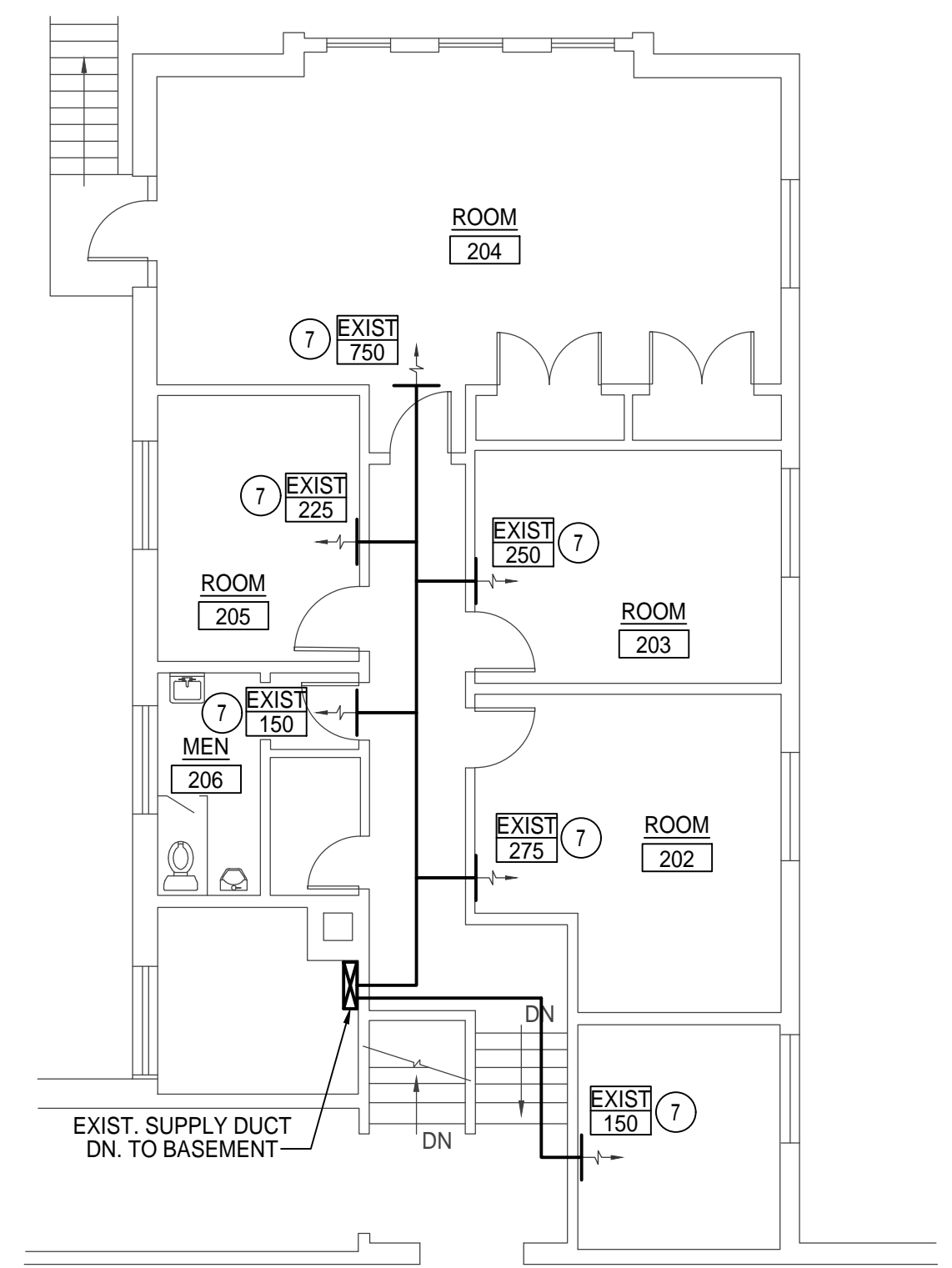
- 1 RUN NEW 3/4" CONDENSATE DRAIN LINE FROM EXISTING DX COOLING COIL ON FURNACE TO EXISTING FLOOR DRAIN LOCATED IN MECH. ROOM AND TERMINATE WITH DOWNTURNED 90° ELBOW WITH AIR GAP.
- 2 CONNECT NEW REFR. PIPING TO EXISTING DX COOLING COIL LOCATED ON EXISTING FURNACE.
- 3 RUN NEW REFR. PIPING FROM EXISTING DX COOLING COIL ON FURNACE UP TO CEILING OF MECH. ROOM AND ACROSS AS SHOWN. DROP REFR. PIPING DOWN EXPOSED ON INTERIOR SIDE OF WALL AND THRU EXTERIOR WALL TO CONDENSING UNITS AS SHOWN. CORE DRILL EXISTING EXTERIOR WALL AS REQUIRED TO INSTALL PIPING. SEAL WALL PENETRATION WEATHERTIGHT.
- 4 INSTALL REFR. PIPING COVER USING 18 GA. GALVANIZED SHEET METAL COVER COMPLETE WITH 24 GA. PREFINISHED METAL SKIN AS SHOWN ON DETAIL ON SHEET ME-2.
- 5 MECH. CONTRACTOR TO INSTALL NEW 4" THICK CONCRETE PAD FOR CONDENSING UNIT(S) IN LOCATION SHOWN. FIELD VERIFY LOCATION OF EXISTING LAWN IRRIGATION LINES AND HEADS AND RELOCATE AS REQUIRED TO PROVIDE ADEQUATE COVERAGE.
- 6 EXTEND EXISTING CONCRETE PAD TO ACCOMMODATE (3) NEW CONDENSING UNITS AS SHOWN. FIELD VERIFY EXISTING CONDITIONS. NEW PORTION OF CONCRETE PAD TO BE MIN. 4" THICK. RELOCATE EXISTING LAWN SPRINKLER PIPING AND HEADS AS REQUIRED.
- 7 EXISTING SIDEWALL SUPPLY REGISTER TO REMAIN. BALANCE TO CFM SHOWN.
- 8 EXISTING FLOOR SUPPLY REGISTER TO REMAIN. BALANCE TO CFM SHOWN.
- 9 EXISTING AIR HANDLER TO REMAIN. INSTALL NEW DX COOLING COIL IN CABINET OF AIR HANDLER AND RELOCATE EXISTING FILTER BANK AS REQUIRED. FIELD VERIFY EXISTING SIZES AND CONDITIONS PRIOR TO ORDERING AND INSTALLING NEW DX COIL.
- 10 RISE REFR. PIPING UP TO CEILING OF MECH. ROOM AND RUN ACROSS TO EXISTING WINDOW WELL AS SHOWN. RISE UP THRU EXISTING GRATING TO CONDENSING UNITS ABOVE. SEAL WALL PENETRATIONS FOR NEW PIPING WEATHERTIGHT. REFER TO DX COOLING COIL SCHEDULE ON SHEET ME-2 FOR LINE SIZES.
- 11 INSTALL NEW NEMA 3R FUSED DISCONNECT FOR NEW CONDENSING UNIT. FUSE AS PER LOAD OF NEW UNIT PROVIDED. SEE CONDENSING UNIT SCHEDULE ON SHEET ME-2 FOR LOAD AND FUSE INFORMATION.
- 12 INSTALL NEW 30A 2 P BREAKER IN NEAREST EXISTING PANEL FOR NEW CONDENSING UNIT AND RUN (2) #10 WITH GND. IN 3/4" CONDUIT FROM PANEL TO FUSED DISCONNECT ON WALL.
- 13 INSTALL NEW 50A 2P BREAKER IN NEAREST EXISTING PANEL FOR NEW CONDENSING UNIT AND RUN (2) #6 WITH GND. IN 1" CONDUIT FROM PANEL TO FUSED DISCONNECT ON WALL.
- 14 RUN NEW 2 CONDUCTOR THERMOSTAT WIRE FROM EXISTING FURNACE OR AIR HANDLER TO NEW CONDENSING UNIT IN CONDUIT. CONNECT TO EXISTING HONEYWELL PRESTIGE CONTROL SYSTEM.
- 15 EXISTING PANEL. VERIFY SPACE AND SPARE BREAKERS FOR NEW A/C UNITS. PROVIDE NEW BREAKERS AS REQUIRED TO MATCH EXISTING PANEL. RUN NEW CONDUIT AND CONDUCTORS AS PER NOTES 12 & 13 TO NEW CONDENSING UNITS.
- 16 INSTALL GFCI SERVICE RECEPTACLE WITH WEATHERPROOF IN-USE COVER. CIRCUIT THRU NEAREST UNSWITCHED POWER SOURCE.

GENERAL NOTES:

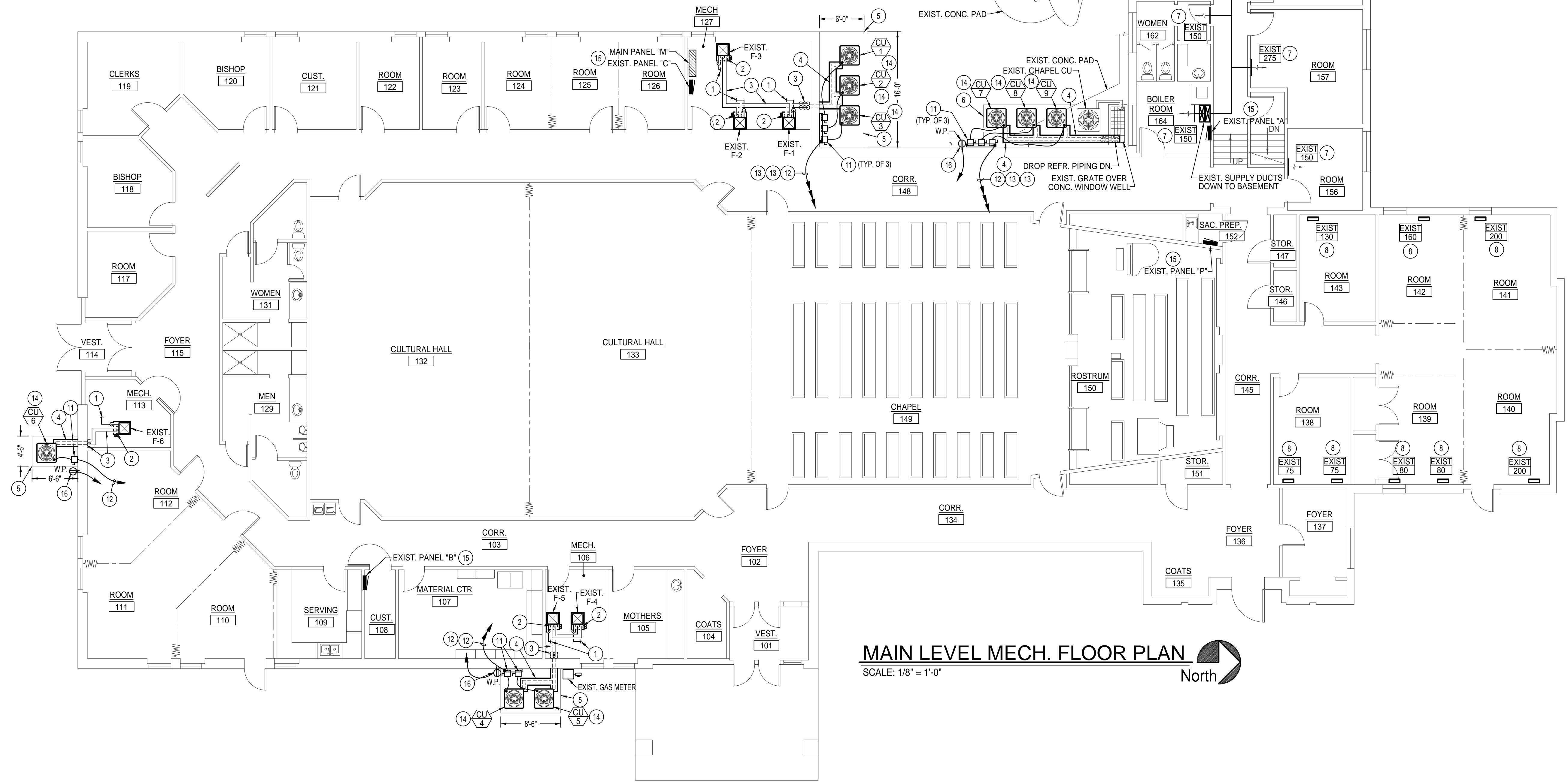
- A- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONNECTIONS ON THE JOB SITE. ALL WORK SHALL BE EXECUTED FROM MEASUREMENTS TAKEN AT THE SITE.
- B- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER CODE CLEARANCES FOR ELECTRICAL AND MECHANICAL ACCESS WHEN INSTALLING ANY EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR.
- C- IT IS CRITICAL THAT THIS CONTRACTOR COORDINATE EQUIPMENT LOCATIONS WITH PIPING, DUCTWORK, ELECTRICAL CONDUIT AND BUILDING STRUCTURE TO INSURE CODE COMPLIANCE.
- D- CEILING DIFFUSERS ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO LIGHTING PLANS AND REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
- E- DUCT DIMENSIONS CALLED OUT ON DRAWINGS ARE INSIDE FREE AREA DIMENSIONS. ACOUSTICAL DUCT LINER ARE TO BE ADDED TO OVERALL MEASUREMENTS.
- F- ALL DUCTWORK AND PIPING WHICH PASSES THRU FIRE RATED WALLS TO BE FIRE STOPPED WITH APPROVED FOAM OR SEALANT. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.



LARGE SCALE BASEMENT MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"
North



2ND LEVEL MECH. FLOOR PLAN
SCALE: 1/8" = 1'-0"
North



MAIN LEVEL MECH. FLOOR PLAN
SCALE: 1/8" = 1'-0"
North

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