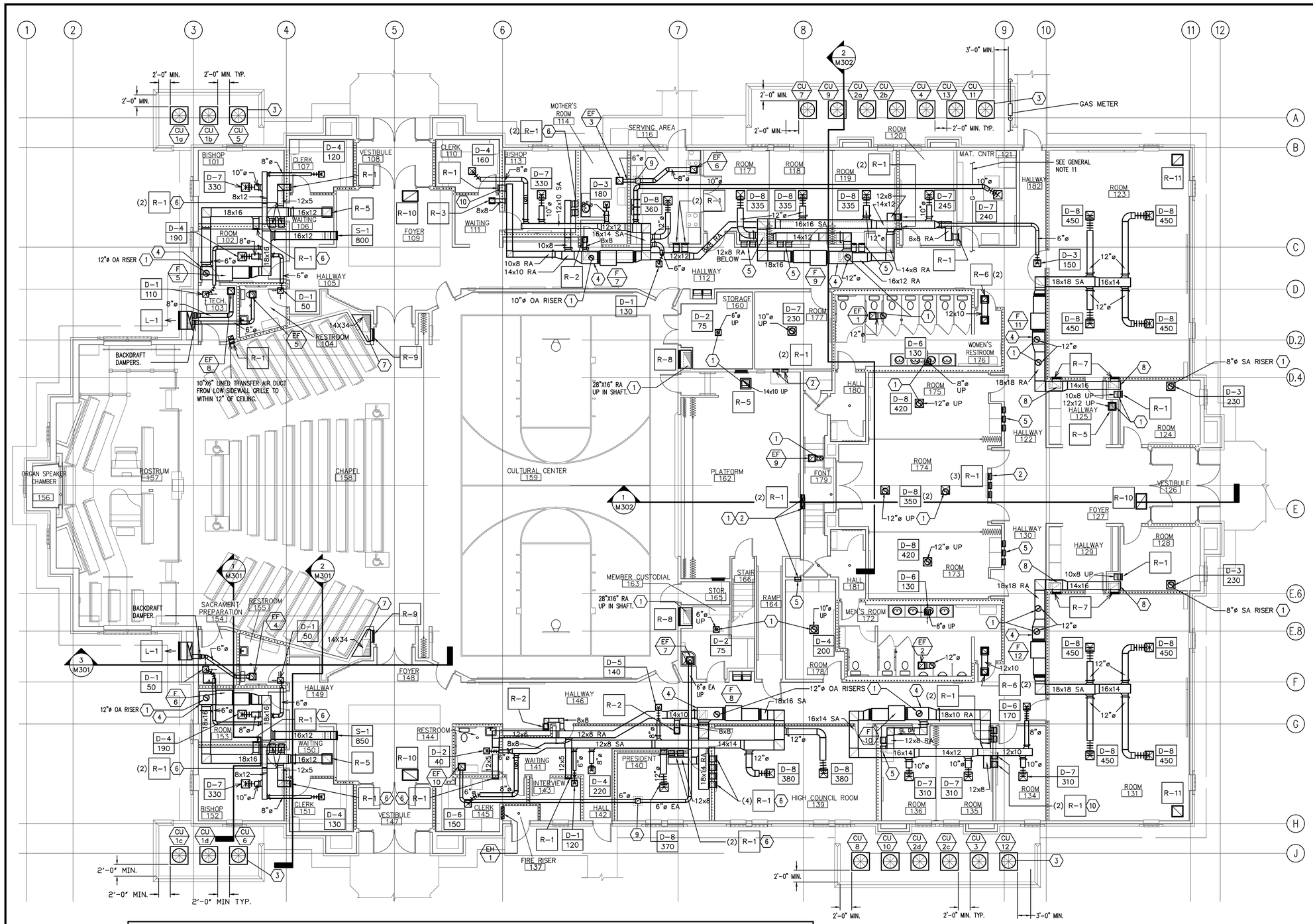

GENERAL NOTES

1. DRAWINGS SHOW GENERAL ARRANGEMENT OF PIPING, DUCTWORK, EQUIPMENT, ETC. FOLLOW AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED. INVESTIGATE STRUCTURAL AND FINISH CONDITIONS AFFECTING THIS WORK AND ARRANGE WORK ACCORDINGLY. PROVIDE SUCH FITTINGS, VALVES, AND ACCESSORIES REQUIRED TO MEET CONDITIONS.
2. ALL DUCT DIMENSIONS SHOWN ARE CLEAR DIMENSIONS INSIDE DUCT LINER.
3. DO NOT USE LINER INSIDE RETURN AIR DUCT RISERS IN 2"X6" WALLS OF PERIMETER ROOMS.
4. WRAP ALL OUTSIDE AIR DUCTS WITH EXTERNAL INSULATION.
5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF GRILLES AND DIFFUSERS.
6. ALL PVC EQUIPMENT VENTS, PLUMBING VENTS, AND PENTHOUSE EXHAUST VENTS SHALL BE PAINTED TO MATCH ROOF COLOR.
7. MOUNT ALL DUCT SMOKE DETECTORS IN RETURN AIR STREAM ONLY. DO NOT MOUNT DOWNSTREAM OF MINIMUM OUTSIDE AIR CONNECTION.
8. DO NOT ROUTE PIPES ABOVE ELECTRICAL PANELS. MAINTAIN CLEAR ACCESS SPACE IN FRONT OF ALL ELECTRICAL PANELS 4'-0" DEEP AND 6'-6" HIGH.
9. SEE SHEET M102 FOR CONTINUATION OF ALL DUCT RISERS.
10. 12"x5" RETURN DUCT DROPS IN WALLS OF ROOMS 117, 118, 119, 173, 175 AND 178 TERMINATE IN BOTTOM OF CABINETS. SEE ARCHITECTURAL DETAILS V/A407.
11. COORDINATE WITH NATURAL GAS PIPING MAIN. SEE SHEET P102.

KEYED NOTES

1. SEE SHEET M102 FOR CONTINUATION. TYPICAL.
2. 12x5 UNLINED RETURN AIR DUCTS IN WALL. SEE SHEET M102 FOR CONTINUATION.
3. COMPRESSOR UNIT. REFER TO SHEET M501 FOR REFRIGERANT PIPING SCHEME AND DETAILS. TYPICAL.
4. MIXED AIR PLENUM AT INLET TO FAN UNIT. FULL SIZE. TYPICAL FOR ALL SYSTEMS.
5. 12"x5" UNLINED RETURN DUCT DROPS IN WALL. TERMINATE DUCT OPENING IN CABINET BASE. REFER TO ARCHITECTURAL DETAILS V/A407. TYPICAL AT ROOMS 117, 118, 119, 136, 173, 175, AND 178.
6. LOW SIDEWALL RETURN AIR GRILLE LOCATED IN ACOUSTICAL WALL. REFER TO DETAILS P AND Q/A502 FOR CORRECT LOCATION OF RA DUCT DROP.
7. 60" TALL LINED RETURN AIR PLENUM, MINIMUM 8 SQ. FT. BASE.
8. DROP 16"X10" R.A. DUCT DOWN IN SHAFT TO SIDEWALL RETURN GRILLE.
9. CONNECT EXHAUST TO 16"X16" EXHAUST FROM PENTHOUSE ON ROOF. SEE SHEET M102 FOR CONTINUATION.
10. 12"x5" UNLINED RA DROP DOWN TO R-1 RETURN AIR GRILLE. TYPICAL.

L E G E N D

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BRANCH DUCT TAKE-OFF SEE DETAIL A/M502		BDD – (BACK DRAFT DAMPER)	SA	SUPPLY AIR
				RA	RETURN AIR AND RELIEF AIR TO ERV's
	SINGLE THICKNESS TURNING VANES		MANUAL VOLUME DAMPER	OA	OUTSIDE AIR
				TA	TRANSFER AIR
	DUCT TRANSITION		FLEX. CONNECTION 6"-0" MAX LENGTH – SEE DETAIL E/M502	FA	FRESH AIR (ERV LABEL)
				EA	EXHAUST AIR
	MOTORIZED DAMPER		DUCT SMOKE DETECTOR. INSTALL 12x12 ACCESS DOOR AT ALL LOCATIONS	AF	ABOVE FLOOR
				SL UP	SLOPE UP OR DN

1 MAIN FLOOR MECHANICAL PLAN

1/8" = 1'-0"

NORTH

ORIGINAL DRAWING SIGNED BY: DWAYNE C. SUDWEEKS
DATE ORIGINAL SIGNED: May 23, 2017
ORIGINAL ON FILE AT ENGINEERED SYSTEMS ASSOCIATES
1355 EAST CENTER, POCATELLO, IDAHO 83201

PROFESSIONAL ENGINEER REGISTERED 5762 STATE OF IDAHO DWAYNE C. SUDWEEKS

Engineered Systems Associates
1355 EAST CENTER
POCATELLO, IDAHO 83201
PHONE: (208) 233-0501
FAX: (208) 233-0529
EMAIL: esa@engsystems.com
ESA JOB NUMBER: 17031

Architect / Engineer:
GENE C. ULMER ARCHITECT
1506 S. SECRETARIAT WAY
NAMPA, ID 83686
(208) 899-0874 • gculmerarch@q.com

Date: May 23, 2017

Stamp:

Middleton Heritage 09T SC
Middleton Idaho Stake
1332 Cornell Street
Middleton, Idaho 83644

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date	Description

Project Number: 21701
Plan Series: HET-SCS-09-07
Property Number: 50034331601

Sheet Title: MAIN FLOOR MECHANICAL PLAN

Sheet: M101

17031-M101.dwg - 05/22/2017 - 2:59 PM