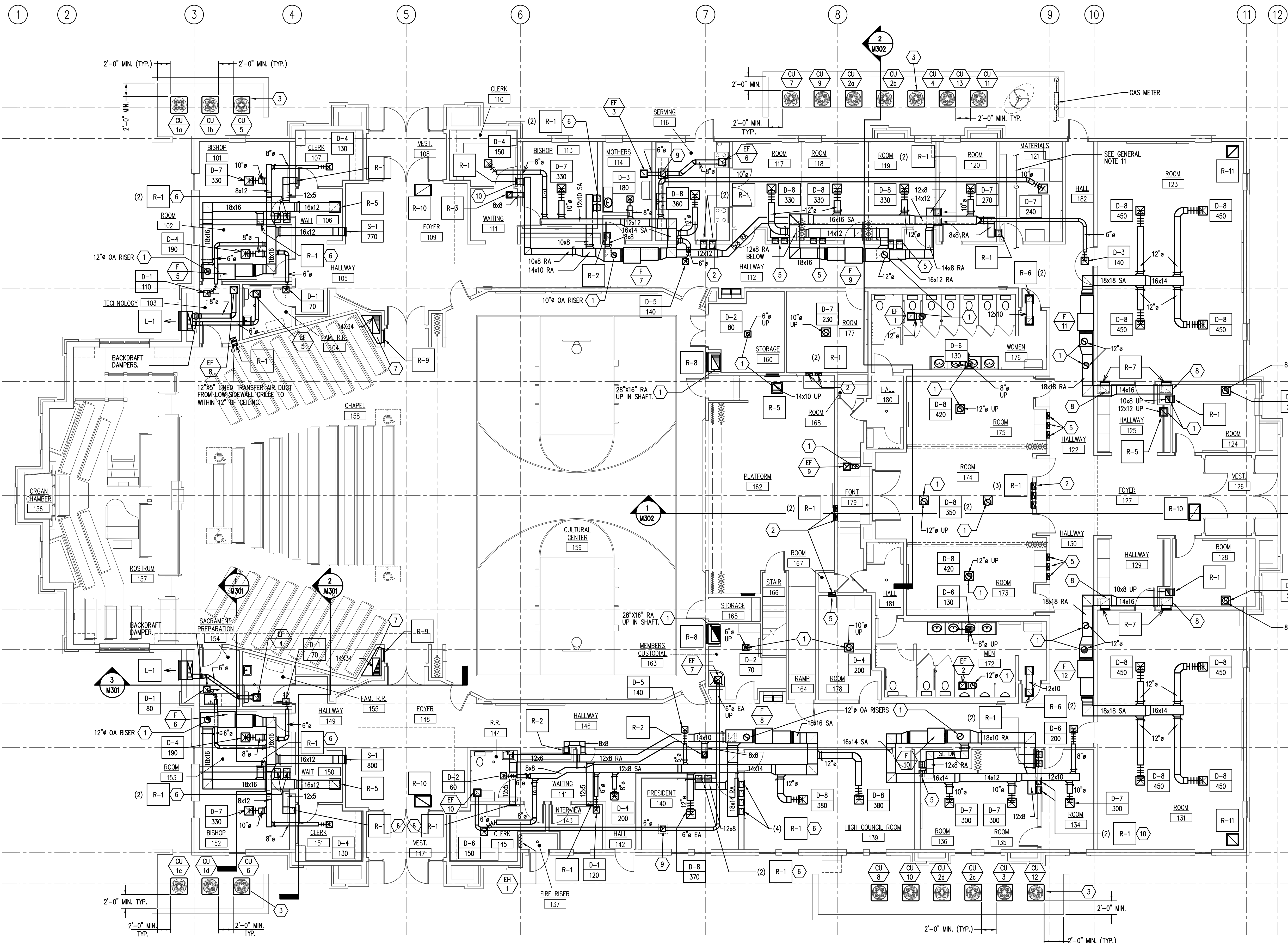




LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BRANCH DUCT TAKE-OFF SEE DETAIL A/M502		BDD - (BACK DRAFT DAMPER)		SUPPLY AIR
	SINGLE THICKNESS TURNING VANES		MANUAL VOLUME DAMPER		RETURN AIR AND RELIEF AIR TO ERV'S
	DUCT TRANSITION		FLEX. CONNECTION 6'-0" MAX LENGTH - SEE DETAIL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

1 MAIN FLOOR MECHANICAL PLAN
1/8" = 1'-0"

- GENERAL NOTES**
- 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.
 - ALL DUCT DIMENSIONS SHOWN ARE CLEAR DIMENSIONS INSIDE DUCT LINER.
 - DO NOT USE LINER INSIDE RETURN AIR DUCT RISERS IN 2"x6" WALLS OF PERIMETER ROOMS.
 - WRAP ALL OUTSIDE AIR DUCTS WITH EXTERNAL INSULATION.
 - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF GRILLES AND DIFFUSERS.
 - ALL PVC EQUIPMENT VENTS, PLUMBING VENTS, AND PENTHOUSE EXHAUST VENTS SHALL BE PAINTED TO MATCH ROOF COLOR.
 - MOUNT ALL DUCT SMOKE DETECTORS IN RETURN AIR STREAM ONLY. DO NOT MOUNT DOWNSTREAM OF MINIMUM OUTSIDE AIR CONNECTION.
 - DO NOT ROUTE PIPES ABOVE ELECTRICAL PANELS. MAINTAIN CLEAR ACCESS SPACE IN FRONT OF ALL ELECTRICAL PANELS 4'-0" DEEP AND 6'-6" HIGH.
 - SEE SHEET M102 FOR CONTINUATION OF ALL DUCT RISERS.
 - 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.
 - COORDINATE WITH NATURAL GAS PIPING MAIN. SEE SHEET P102.

- KEYED NOTES**
- SEE SHEET M102 FOR CONTINUATION. (TYPICAL)
 - 12"x5" UNLINED RETURN AIR DUCTS IN WALL. SEE SHEET M102 FOR CONTINUATION.
 - COMPRESSOR UNIT. REFER TO SHEET M501 FOR REFRIGERANT PIPING SCHEME AND DETAILS. (TYPICAL)
 - MIXED AIR PLENUM AT INLET TO FAN UNIT. FULL SIZE. TYPICAL FOR ALL SYSTEMS.
 - 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.
 - LOW SIDEWALL RETURN AIR GRILLE LOCATED IN ACoustICAL WALL. REFER TO DETAILS P AND Q/A502 FOR CORRECT LOCATION OF RA DUCT DROP.
 - 60" TALL UNLINED RETURN AIR PLENUM, MINIMUM 8 SQ. FT. BASE.
 - DROP 16"x10" R.A. DUCT DOWN IN SHAFT TO SIDEWALL RETURN GRILLE.
 - CONNECT EXHAUST TO 16"x16" EXHAUST FROM PENTHOUSE ON ROOF. SEE SHEET M102 FOR CONTINUATION.
 - 12"x5" UNLINED RA DUCT DROP DOWN TO R-1 RETURN AIR GRILLE. TYPICAL.

ORIGINAL DRAWING SIGNED BY: DWAYNE C. SUDWEEKS
DATE ORIGINAL SIGNED: Mar 15, 2017
ORIGINAL ON FILE AT ENGINEERED SYSTEMS ASSOCIATES
1355 EAST CENTER, POCAHELLO, IDAHO 83201

Engineered Systems Associates
1355 EAST CENTER
POCAHELLO, IDAHO 83201
PHONE: (208) 233-0501
FAX: (208) 233-0529
EMAIL: esa@engsystems.com
ESA JOB NUMBER: 16083

Architect / Engineer:
nwarchitects p.a.
ARCHITECTURE / PLANNING / INTERIORS
SCOTT NELSON, AIA, KEVIN R. BOOBY, AIA, JAMES H. WYATT, AIA,
990 JOHN JONES PARKWAY, P.O. BOX 2712 - IDAHO FALLS, IDAHO 83402-2712
(P) 208-322-8779 (F) 208-522-8785 (W) www.nwarchitects.com

Stamp:

New Meetinghouse for:
**Iona South Stake
Heritage 09TSC**
4440 E. High Grove Road
Idaho Falls, ID 83401

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

Project Number:
16065
Plan Series:
HET-SDS-09-07
Property Number:
500-5990

Sheet Title:
**MAIN FLOOR
MECH. PLAN**

Sheet:
M101