Salt Lake Winder Stake
Project No. 507-9543-19030101

HVAC Upgrade
Hillview, Skyview, Winder 18 SP

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Salt Lake City, Utah 84124

Murray UT FM Group
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Project For

THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

DRAWING INDEX

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REVISIONS

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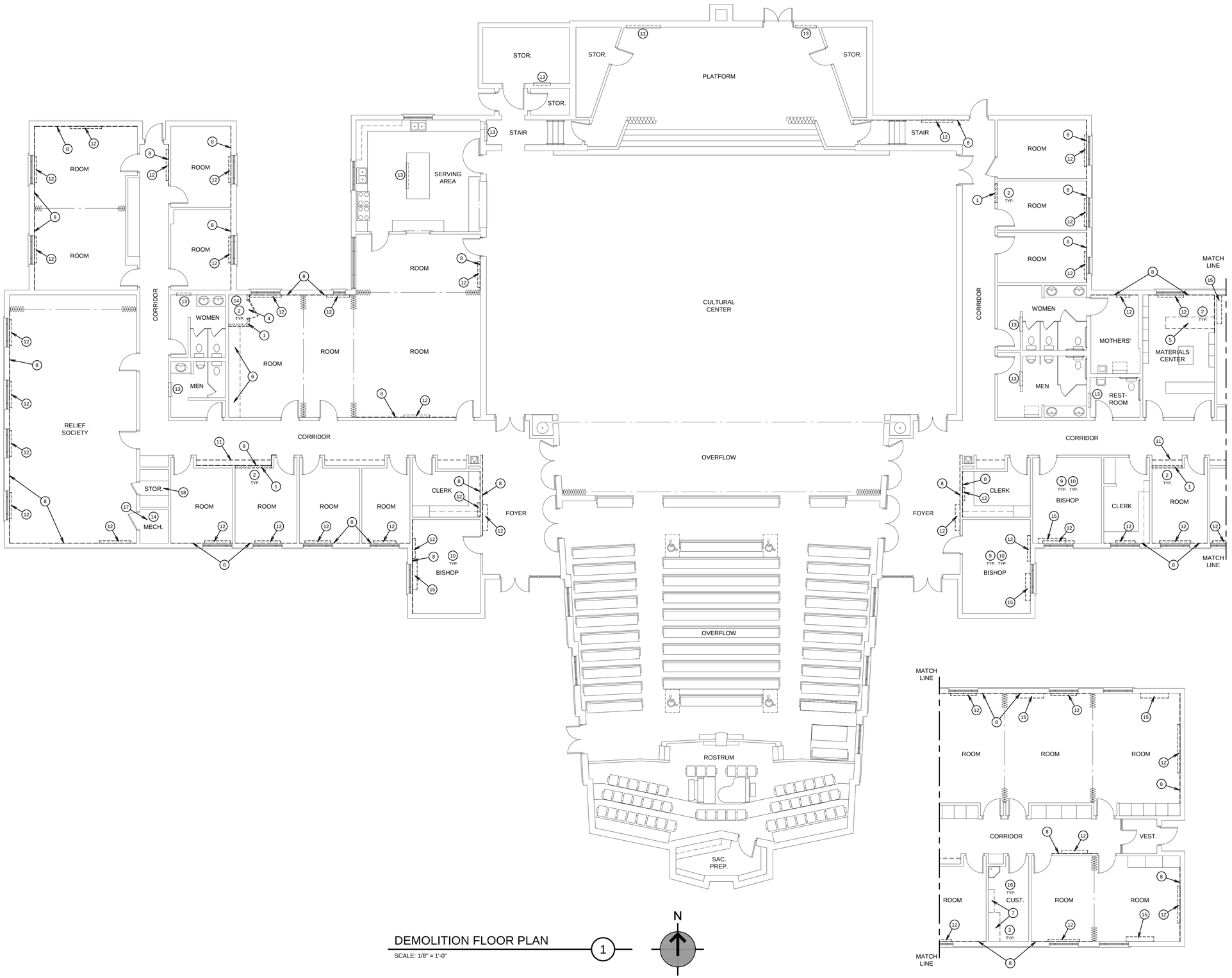
COVER SHEET

M000



DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. DEMOLITION DRAWINGS ARE SHOWN TO ASSIST CONTRACTOR ONLY, AND ARE NOT INTENDED TO BE ALL-INCLUSIVE OR TO LIMIT EXTENT OF DEMOLITION WORK REQUIRED. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING AND COORDINATE WITH ALL TRADES AND DRAWINGS TO DEFINE EXTENT OF DEMOLITION WORK REQUIRED TO PERFORM NEW WORK AND TO CARRY OUT THE INTENT OF THESE CONTRACT DRAWINGS.
2. OWNER HAS FIRST RIGHTS TO SALVAGE.
3. SEE ALL OTHER DOCUMENTS FOR ADDITIONAL DEMOLITION WORK TO BE PERFORMED. COORDINATE.
4. WALL COVERINGS: SEE FINISH SCHEDULE ON SHEET A601 FOR WALL COVERINGS TO BE REMOVED.
5. ARTWORK, VISUAL DISPLAY BOARDS, EQUIPMENT, DEVICES, FIXTURES, GRILLES, SPEAKERS, COVER PLATES, DRAPERY AND OTHER EXISTING WORK: REMOVE EXISTING AS REQUIRED TO ACCOMMODATE NEW WORK/FINISHES AND STORE FOR REINSTALLATION WHERE APPLICABLE.
6. PLUMBING, MECHANICAL, H.V.A.C., ELECTRICAL, SOUND AND RELATED WORK: REMOVE EXISTING AS REQUIRED TO ACCOMMODATE NEW WORK/FINISHES AND STORE FOR REINSTALLATION WHERE APPLICABLE.

KEYED DEMOLITION NOTES

1. REMOVE EXISTING WALL OR PORTION OF WALL.
2. REMOVE PORTION OF EXISTING CARPET, BASE, FLOOR SHEATHING AND FRAMING, CEILING FINISHES AND OTHER WORK AS REQUIRED TO ACCOMMODATE NEW WORK. COORDINATE WITH NEW FLOOR PLAN AND OTHER DRAWINGS.
3. REMOVE PORTION OF EXISTING TILE, BASE, FLOOR SHEATHING AND FRAMING, CEILING FINISHES AND OTHER WORK AS REQUIRED TO ACCOMMODATE NEW WORK. COORDINATE WITH NEW FLOOR PLAN AND OTHER DRAWINGS.
4. REMOVE EXISTING DOOR, FRAME AND HARDWARE, COMPLETE.
5. REMOVE EXISTING CASEWORK AND COUNTER TOP.
6. REMOVE EXISTING STORAGE CABINETS AND HARDWARE.
7. REMOVE AND SALVAGE EXISTING STORAGE CABINETS AND ADJUSTABLE SHELVING AND BRACKETS.
8. REMOVE EXISTING SISAL WALL COVERING WAINSCOT - CORNER TO CORNER.
9. REMOVE EXISTING VINYL WALL COVERING WAINSCOT AT ENTIRE ROOM.
10. REMOVE EXISTING VINYL WALL COVERING ABOVE CHAIR RAIL AT ENTIRE ROOM.
11. REMOVE AND SALVAGE EXISTING COAT RACK, HANGERS AND HOOK STRIP WITH HARDWOOD TRIM (WHERE OCCURS).
12. REMOVE EXISTING HEAT CONVECTOR AND RELATED PIPING. SEE MECHANICAL AND PLUMBING DRAWINGS. REMOVE EXISTING WOOD TRIM AROUND CONVECTOR.
13. EXISTING HEAT CONVECTOR TO REMAIN. SEE MECHANICAL AND PLUMBING DRAWINGS.
14. REMOVE EXISTING HVAC EQUIPMENT AND RELATED WORK. SEE MECHANICAL AND ELECTRICAL DRAWINGS.
15. REMOVE EXISTING HVAC SPLIT SYSTEM EQUIPMENT AND RELATED WORK. SEE MECHANICAL AND ELECTRICAL DRAWINGS.
16. REMOVE EXISTING GYPSUM BOARD CEILING. REMOVE AND SALVAGE EXISTING LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS.
17. REMOVE EXISTING WOOD ACCESS PANEL TO CRAWL SPACE.
18. REMOVE PORTION OF EXISTING FRAMING AND FLOORING FOR NEW CRAWL SPACE ACCESS DOOR.

ARCHITECTURAL DRAWINGS

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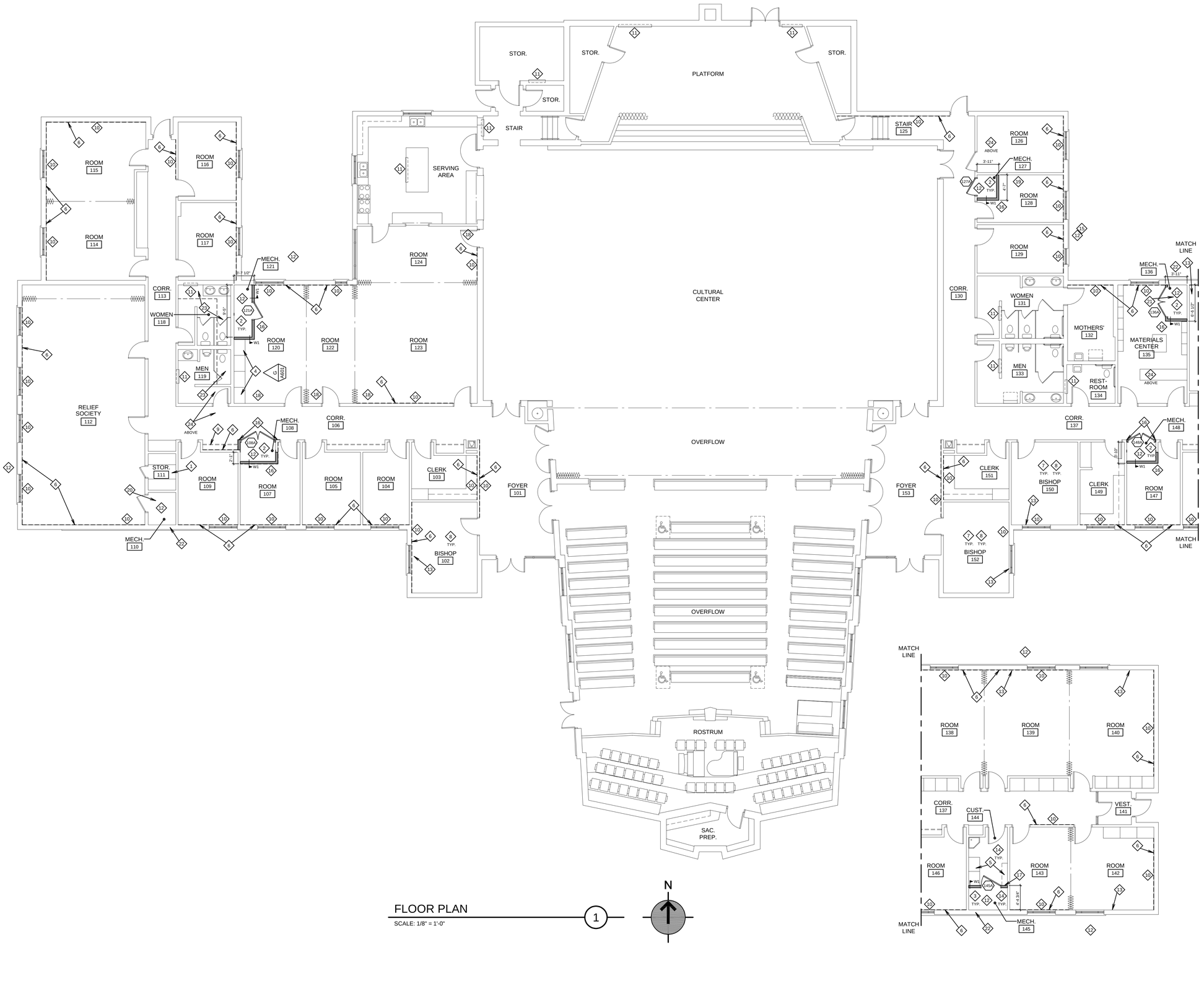
DEMOLITION FLOOR PLAN

D101



FLOOR PLAN

SCALE: 1/8" = 1'-0"

N

GENERAL NOTES

1. PROTECT EXISTING FINISHES WHICH ARE TO REMAIN THROUGHOUT THE CONSTRUCTION PERIOD, INCLUDING CARPET, CEILING TILE, HARDWOOD FLOORS, CASEWORK, WOOD TRIM AND OTHER WORK.
2. REMOVE, STORE, PROTECT AND REINSTALL ALL EXISTING VISUAL DISPLAY BOARDS, ARTWORK, DRAPERY, CLOCKS, COVER PLATES, GRILLES, ELECTRICAL AND FIRE ALARM DEVICES, DRAPES AND RODS AND OTHER WALL-MOUNTED WORK TO ACCOMMODATE NEW HVAC WORK, PATCHING, WALL COVERINGS AND PAINTING.

KEYED NOTES

1. MODIFY EXISTING FLOOR FRAMING AND PROVIDE NEW 24" x 30" FLOOR ACCESS DOOR TO CRAWL SPACE BELOW. DOOR TO RECEIVE CARPET.
2. PATCH EXISTING FLOOR SHEATHING AND FRAMING, CEILING FINISHES AND OTHER WORK AS REQUIRED TO ACCOMMODATE NEW WORK. COORDINATE WITH NEW FLOOR PLAN AND OTHER DRAWINGS. OWNER WILL PATCH CARPET AND BASE AT ROOMS. PAINT FLOOR SHEATHING AND INSTALL NEW RUBBER BASE AT NEW MECHANICAL ROOMS.
3. PATCH EXISTING FLOOR FRAMING AND INSTALL NEW FLOOR SHEATHING. COORDINATE WITH NEW FLOOR PLAN AND OTHER DRAWINGS.
4. NEW STORAGE CABINETS AND HARDWARE. SEE ELEVATION AND DETAILS.
5. REINSTALL SALVAGED EXISTING STORAGE CABINETS AND ADJUSTABLE SHELVING AND BRACKETS IN NEW LOCATIONS SHOWN.
6. NEW SISAL WALL COVERING WAINSCOT TO MATCH EXISTING COLOR - CORNER TO CORNER. NEW CHAIR RAIL / WAINSCOT TRIM AT NEW AND MODIFIED WALLS.
7. NEW SISAL WALL COVERING WAINSCOT TO MATCH EXISTING COLOR - AT ENTIRE ROOM.
8. WHERE EXISTING VINYL WALL COVERING IS REMOVED ABOVE CHAIR RAIL: PATCH EXISTING GYPSUM BOARD TO MATCH WHERE DISTURBED BY DEMOLITION WORK. SEAL WITH ONE COAT KILZ OR EQUAL. SKIM COAT, SMOOTH TEXTURE TO MATCH EXISTING CLASSROOMS, PRIME AND PAINT ALL WALLS ABOVE CHAIR RAIL.
9. MODIFY AND REINSTALL PORTION OF EXISTING COAT RACK AND HANGERS, AND HOOK STRIP WITH HARDWOOD TRIM. SEE SHEET A601.
10. PATCH WALL AND ADD INSULATION AT ALL VOIDS AS REQUIRED WHERE EXISTING HEAT CONVECTOR IS REMOVED. SEE MECHANICAL DRAWINGS.
11. EXISTING HEAT CONVECTOR TO REMAIN. SEE MECHANICAL AND PLUMBING DRAWINGS.
12. NEW HVAC EQUIPMENT AND RELATED WORK. SEE MECHANICAL AND ELECTRICAL DRAWINGS.
13. PATCH WALL TO MATCH WHERE EXISTING SPLIT SYSTEM EQUIPMENT AND RELATED PIPING AND ELECTRICAL IS REMOVED. PAINT ENTIRE WALLS CORNER TO CORNER.
14. NEW 5/8" GYPSUM BOARD CEILING WITH SUSPENSION SYSTEM AT LOWER HEIGHT TO ACCOMMODATE NEW DUCT WORK AT THIS AREA. SEE MECHANICAL DRAWINGS. APPROXIMATE NEW HEIGHT 8'-0".
15. NEW 4" CONCRETE EQUIPMENT PAD ON 4" BASE ON PREPARED SUBGRADE. SEE MECHANICAL DRAWINGS FOR DIMENSIONS. NEW 4'-0" TLL CHAIN LINK FENCE ENCLOSURE WITH 3'-0" WIDE GATE AS SHOWN ON MECHANICAL DRAWINGS.
16. AT NEW WALLS: SISAL WAINSCOT WITH HARDWOOD CHAIR RAIL / WAINSCOT TRIM TO MATCH EXISTING. SMOOTH TEXTURE FINISH AND PAINT GYPSUM BOARD ABOVE CHAIR RAIL. PATCH CEILING TILE AND J METAL TO MATCH NEW WALL LOCATIONS. NEW CARPET BASE BY OWNER.
17. AT NEW WALLS: SMOOTH TEXTURE FINISH AND PAINT. NEW RUBBER BASE TO MATCH EXISTING.
18. PATCH EXISTING CEILING TILE AT THIS AREA TO MATCH WHERE EXISTING HVAC GRILLE IN CEILING IS REMOVED. SEE MECHANICAL DRAWINGS.
19. RELOCATE EXISTING VISUAL DISPLAY BOARD IN THIS ROOM. PAINT ALL GYPSUM BOARD WALLS.
20. PATCH IN EXISTING CRAWL SPACE ACCESS OPENING WITH NEW FRAMING AND FLOOR SHEATHING. PAINT SHEATHING ENTIRE ROOM.
21. EXISTING CRAWL SPACE ACCESS DOOR IN FLOOR TO REMAIN. MAINTAIN EXISTING CARPET IN TOP OF DOOR.
22. NEW EXTERIOR LOUVER. SEE MECHANICAL DRAWINGS. SAW CUT TO PROVIDE NEW OPENING IN EXISTING WALL. PROVIDE AND PAINT NEW GALVANIZED STEEL LINTELS (3 1/2" x 3 1/2" x 1/4") AT EACH SIDE OF OPENING. POWDER COATED LOUVER COLOR TO MATCH BRICK AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
23. NEW METAL FURRING AND 5/8" GYPSUM BOARD AROUND DUCT WORK AT CEILING. SEE MECHANICAL DRAWINGS. SMOOTH TEXTURE FINISH AND PAINT TO MATCH.
24. NEW ROOFTOP PENTHOUSE ON NEW CURB. SEE DETAILS A,B/A122 AND MECHANICAL DRAWINGS. COORDINATE FLASHING REQUIRED WITH PENTHOUSE DETAIL. MODIFY EXISTING ROOF FRAMING AND SHEATHING TO PROVIDE NEW OPENING. AT SLOPED AREAS, PROVIDE CRICKET AT HIGH SIDE AND PATCH EXISTING PVC ROOFING TO MATCH.

WALL TYPES SCHEDULE

MARK	DESCRIPTION
W1	2x4 STUDS AT 16" O.C. WITH 5/8" GYPSUM BOARD EACH SIDE. FULL THICK ACOUSTICAL INSULATION AT ALL VOIDS. ACOUSTICAL SEALANT AT EDGES.

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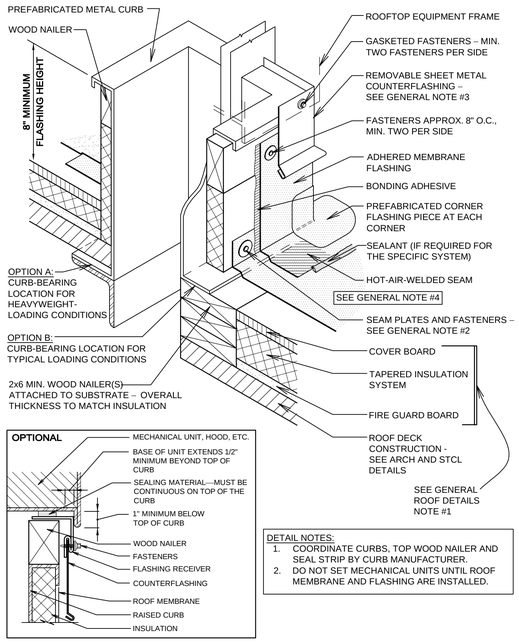
FLOOR PLAN

A101

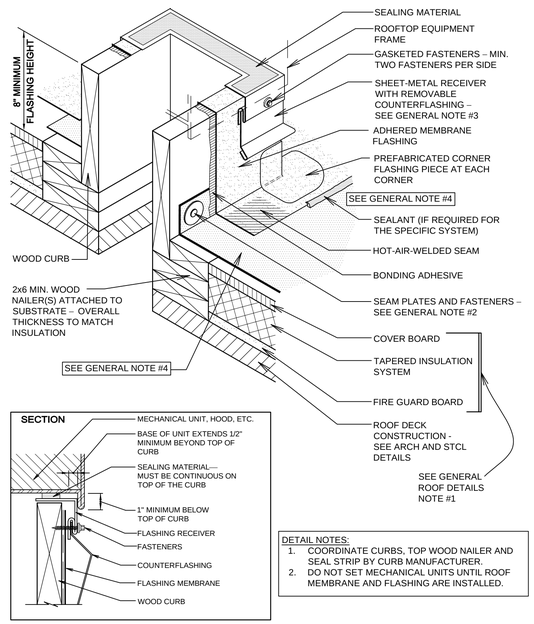


DETAIL NOTES:
1. COORDINATE CURBS, TOP WOOD NAILER AND SEAL STRIP BY CURB MANUFACTURER.
2. DO NOT SET MECHANICAL UNITS UNTIL ROOF MEMBRANE AND FLASHING ARE INSTALLED.

BASE FLASHING AT PREFABRICATED METAL CURB

SCALE: NONE

A



DETAIL NOTES:
1. COORDINATE CURBS, TOP WOOD NAILER AND SEAL STRIP BY CURB MANUFACTURER.
2. DO NOT SET MECHANICAL UNITS UNTIL ROOF MEMBRANE AND FLASHING ARE INSTALLED.

BASE FLASHING AT WOOD CURB

SCALE: NONE

B

GENERAL NOTES FOR ROOFING DETAILS:

1. REFER TO ROOF PLAN, SHEET A121 AND MEMBRANE ROOFING SPECIFICATION(S) IN SECTIONS 07 5000 FOR MEMBRANE TYPE AND THICKNESS, AND COVER BOARD, TAPERED INSULATION AND FIRE GUARD BOARD THICKNESSES AND REQUIREMENTS.
2. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.
3. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR LEAKAGE CONTROL, AND REROOFING FOR DESIGN, JOINERY AND SECUREMENT OPTIONS FOR COPINGS, FASCIA CAPS, GRAVEL STOPS, PERIMETER EDGE METAL, COUNTER FLASHINGS, COVERS, PENETRATION POCKETS, SCUPPERS, EXPANSION JOINT COVERS AND SHEET METAL HOODS.
4. REFER TO MANUFACTURERS' SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR BASE MEMBRANE ATTACHMENT AND PLACEMENT. MECHANICALLY ATTACHED SYSTEMS GENERALLY HAVE SPECIFIC ATTACHMENT REQUIREMENTS FOR PERIMETER LOCATIONS, PENETRATION LOCATIONS AND ROOF DRAINS.
5. REFER TO The NRCA Roofing Manual: Membrane Roof Systems—2015, INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

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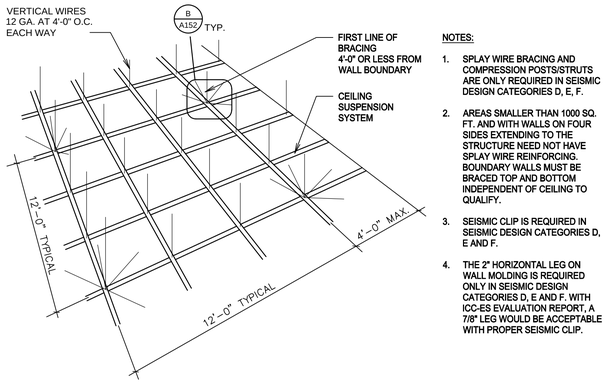
ROOFING DETAILS

A122

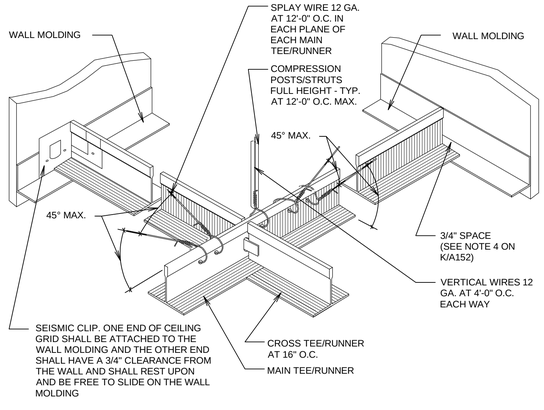


NOTES:

1. SPLAY WIRE BRACING AND COMPRESSION POSTS/STRUTS ARE ONLY REQUIRED IN SEISMIC DESIGN CATEGORIES D, E, F.
2. AREAS SMALLER THAN 1000 SQ. FT. AND WITH WALLS ON FOUR SIDES EXTENDING TO THE STRUCTURE NEED NOT HAVE SPLAY WIRE REINFORCING. BOUNDARY WALLS MUST BE BRACED TOP AND BOTTOM INDEPENDENT OF CEILING TO QUALIFY.
3. SEISMIC CLIP IS REQUIRED IN SEISMIC DESIGN CATEGORIES D, E AND F.
4. THE 2" HORIZONTAL LEG ON WALL MOLDING IS REQUIRED ONLY IN SEISMIC DESIGN CATEGORIES D, E AND F. WITH ICC-ES EVALUATION REPORT, A 7/8" LEG WOULD BE ACCEPTABLE WITH PROPER SEISMIC CLIP.

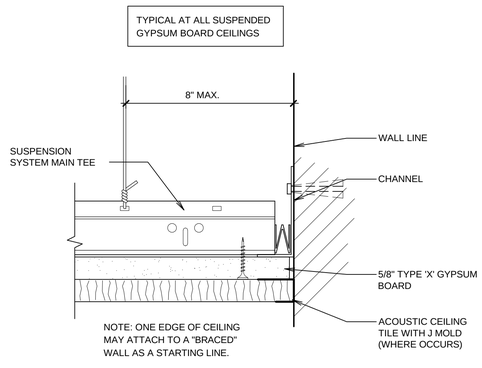
GYPSUM BOARD CEILING
SUSPENSION SYSTEM DETAIL — A

SCALE: N.T.S.



GYPSUM BOARD CEILING
SEISMIC BRACING DETAIL — B

SCALE: N.T.S.



GYPSUM BOARD CEILING
PERIMETER WALL ANGLE DETAIL — C

NO SCALE

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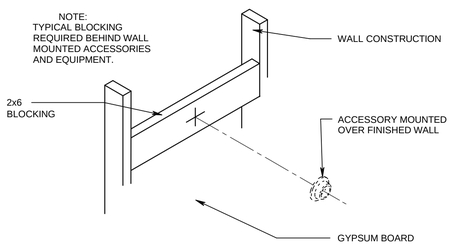
CEILING DETAILS

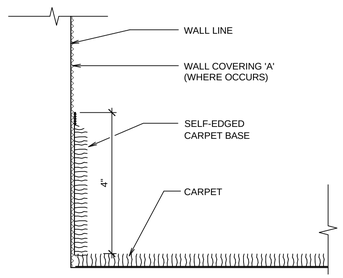
A152

D



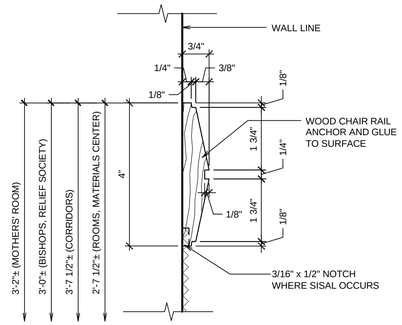
ACCESSORY MOUNTING DETAIL A

SCALE: NONE



CARPET BASE DETAIL B

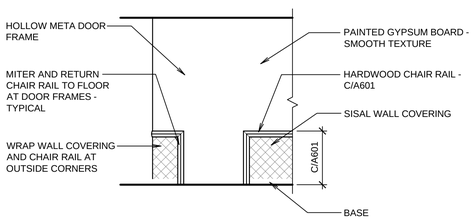
SCALE: HALF



CHAIR RAIL / WAINSCOT TRIM B

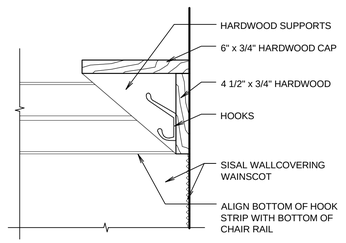
SCALE: HALF

C



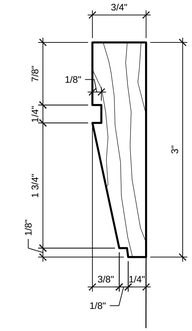
TYPICAL WAINSCOT ELEVATION D

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



HOOK STRIP DETAIL E

SCALE: 3" = 1'-0"

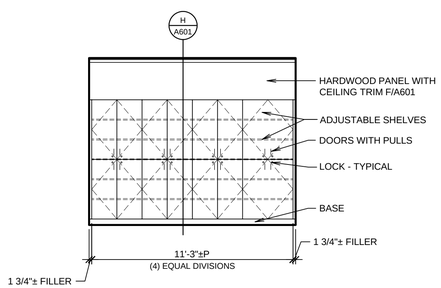


CEILING TRIM F

SCALE: FULL

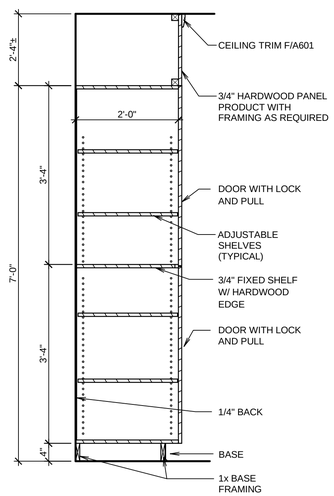
B

A



CABINET ELEVATION G

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



CABINET SECTION H

SCALE: 3/4" = 1'-0"

FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CEILING HEIGHT	SPECIAL TRIM OR EQUIPMENT
101	FOYER	F1,F2	B1,B2	W1,W7	C3	VARIES	S1
102	BISHOP	F1,F2	B1,B2	W1,W3,W9	C3	9'-4"±	S1
103	CLERK	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1,S7
104	ROOM	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1
105	ROOM	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1
106	CORRIDOR	F1,F2	B1,B2	W1,W4,W7	C2,C3	9'-4"±	S1,S2,S3,S4,S5
107	ROOM	F1,F2	B1,B2	W1,W4,W7	C2,C3	9'-4"±	S1,S2
108	MECHANICAL	F4	B4	W5	C1	9'-4"±	
109	ROOM	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1
110	MECHANICAL	F4	B4	W10	C3	7'-8"±	
111	STORAGE	F5	B5	W11	C3	7'-8"±	S10
112	RELIEF SOCIETY	F1,F2	B2,B2	W1,W8	C3	9'-4"±	S1
113	CORRIDOR	F1,F2	B1,B2	W1,W7	C3	8'-5"±	S1
114	ROOM	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1
115	ROOM	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1
116	ROOM	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1
117	ROOM	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1
118	WOMEN	F5	B5	W11	C3	9'-4"±	
119	MEN	F5	B5	W11	C3	9'-4"±	
120	ROOM	F1,F2	B1,B2	W1,W4,W7	C2,C3,C4	9'-4"±	S1,S2,S3
121	MECHANICAL	F4	B4	W5	C1	9'-4"±	
122	ROOM	F1,F2	B2,B2	W1,W7	C3,C4	9'-4"±	S1
123	ROOM	F1,F2	B2,B2	W1,W7	C3,C4	9'-4"±	S1
124	ROOM	F1,F2	B2,B2	W1,W7	C3,C4	9'-4"±	S1
125	STAIR	F1,F2	B1,B2	W1,W7	C3	9'-4"±	S1
126	ROOM	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1
127	MECHANICAL	F4	B4	W5	C1	9'-4"±	
128	ROOM	F1,F2	B1,B2	W1,W4,W7,W8	C2,C3	9'-4"±	S1,S2,S8
129	ROOM	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1
130	CORRIDOR	F1,F2	B1,B2	W1,W4,W7	C2,C3	9'-4"±	S1,S2,S3
131	WOMEN	F5	B5	W11	C3	9'-4"±	
132	MOTHERS' ROOM	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1
133	MEN	F5	B5	W11	C3	9'-4"±	
134	RESTROOM	F5	B5	W11	C3	9'-4"±	
135	MATERIALS CENTER	F1,F2	B1,B2	W1,W4,W7	C2,C3	9'-4"±	S1,S2,S3
136	MECHANICAL	F4	B4	W5	C1	9'-4"±	S11
137	CORRIDOR	F1,F2	B1,B2	W1,W4,W7	C2,C3	9'-4"±	S1,S2,S3
138	ROOM	F1,F2	B2,B2	W1,W6,W7	C3	9'-4"±	S1
139	ROOM	F1,F2	B2,B2	W1,W6,W7	C3	9'-4"±	S1
140	ROOM	F1,F2	B2,B2	W1,W6,W7	C3	9'-4"±	S1
141	VESTIBULE	F5	B5	W11	C3	9'-4"±	
142	ROOM	F1,F2	B2,B2	W1,W6,W7	C3	9'-4"±	S1
143	ROOM	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1
144	CUSTODIAN	F3	B3,B4	W5,W10	C1	8'-0"±	S9
145	MECHANICAL	F4	B4	W5	C1	8'-0"±	
146	ROOM	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1
147	ROOM	F1,F2	B1,B2	W1,W4,W7	C2,C3	9'-4"±	S1,S2
148	MECHANICAL	F4	B4	W5	C1	9'-4"±	
149	CLERK	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1,S7
150	BISHOP	F1,F2	B2	W2,W3,W6	C3	9'-4"±	S1
151	CLERK	F1,F2	B2,B2	W1,W7	C3	9'-4"±	S1,S7
152	BISHOP	F1,F2	B2	W2,W3,W6	C3	9'-4"±	S1
153	FOYER	F1,F2	B1,B2	W1,W7	C3	VARIES	S1

F FLOOR

- F1 EXISTING CARPET TO REMAIN. PROTECT.
- F2 NEW CARPET TO MATCH EXISTING AT REMODELED AREAS. BY OWNER.
- F3 EXISTING TILE TO REMAIN. PROTECT.
- F4 WOOD SHEATHING. PAINT.
- F5 EXISTING TO REMAIN. PROTECT.

B BASE

- B1 EXISTING CARPET BASE TO REMAIN. PROTECT.
- B2 NEW CARPET BASE TO MATCH AT REMODELED AREAS, B/A601.
- B3 EXISTING RUBBER BASE TO REMAIN. PROTECT.
- B4 4" RUBBER BASE
- B5 EXISTING TO REMAIN. PROTECT.

W WALLS

- W1 NEW SISAL WALL COVERING WAINSCOT TO MATCH EXISTING COLOR - CORNER TO CORNER. NEW CHAIR RAIL / WAINSCOT TRIM AT NEW AND MODIFIED WALLS.
- W2 NEW SISAL WALL COVERING WAINSCOT TO MATCH EXISTING COLOR - AT ENTIRE ROOM.
- W3 WHERE EXISTING VINYL WALL COVERING IS REMOVED ABOVE CHAIR RAIL: PATCH EXISTING GYPSUM BOARD TO MATCH WHERE DISTURBED BY DEMOLITION WORK. SEAL WITH ONE COAT KILZ OR EQUAL, SKIM COAT, SMOOTH TEXTURE TO MATCH EXISTING CLASSROOMS, PRIME AND PAINT ALL WALLS ABOVE CHAIR RAIL.NEW AND/OR EXISTING GYPSUM BOARD OR PLASTER. SMOOTH TEXTURE TO MATCH EXISTING. PAINT ENTIRE ROOM.
- W4 AT NEW WALLS: SISAL WAINSCOT WITH HARDWOOD CHAIR RAIL / WAINSCOT TRIM TO MATCH EXISTING. SMOOTH TEXTURE FINISH AND PAINT GYPSUM BOARD ABOVE CHAIR RAIL.
- W5 AT NEW WALLS: SMOOTH TEXTURE FINISH AND PAINT.
- W6 PATCH WALL TO MATCH WHERE EXISTING SPLIT SYSTEM EQUIPMENT AND RELATED PIPING AND ELECTRICAL IS REMOVED. PAINT ENTIRE WALLS CORNER TO CORNER.
- W7 EXISTING SISAL WAINSCOT AND SMOOTH TEXTURE PAINTED WALL ABOVE CHAIR RAIL TO REMAIN. PROTECT.
- W8 EXISTING SISAL WAINSCOT AND VINYL WALL COVERING ABOVE CHAIR RAIL TO REMAIN. PROTECT.
- W9 EXISTING SISAL WAINSCOT TO REMAIN AT WALLS NOT NOTED OTHERWISE ON PLANS
- W10 PAINT EXISTING GYPSUM BOARD WALLS
- W11 EXISTING TO REMAIN. PROTECT.

C CEILING

- C1 NEW 5/8" GYPSUM BOARD ON NEW METAL SUSPENSION SYSTEM. SMOOTH TEXTURE TO MATCH EXISTING AND PAINT.
- C2 EXISTING ACOUSTICAL CEILING TILE AND BACKER BOARD TO REMAIN. PATCH TO MATCH WHERE DISTURBED OR DAMAGED BY THIS WORK.
- C3 EXISTING TO REMAIN. PROTECT.
- C4 PATCH EXISTING CEILING TILE TO MATCH WHERE EXISTING HVAC GRILLE IN CEILING IS REMOVED. SEE MECHANICAL DRAWINGS.

S SPECIAL TRIM OR EQUIPMENT

- S1 EXISTING CHAIR RAIL / WAINSCOT TRIM
- S2 NEW CHAIR RAIL / WAINSCOT TRIM C/A601. MATCH EXISTING STAIN COLOR AND TRIM PROFILE AND TIE INTO EXISTING TRIM.
- S3 NEW CASING TRIM BELOW WAINSCOT AT DOOR FRAMES. SEE C/A601 FOR PROFILE. SEE ELEVATION D/A601.
- S4 MODIFY AND REINSTALL EXISTING COAT RACK AND HANGERS.
- S5 MODIFY AND REINSTALL EXISTING HOOK STRIP AND TRIM. SEE E/A601.
- S6 NEW STORAGE CABINETS.
- S7 EXISTING CASEWORK AND COUNTER TOPS. PROTECT.
- S8 RELOCATE EXISTING VISUAL DISPLAY BOARD IN THIS ROOM.
- S9 REINSTALL EXISTING SALVAGED CASEWORK AND ADJUSTABLE SHELVING.
- S10 NEW 24" x 30" FLOOR ACCESS DOOR WITH CARPET RECESS AT LID.
- S11 EXISTING FLOOR ACCESS DOOR TO REMAIN

GENERAL FINISH NOTES:

1. WHERE NO FINISHES ARE LISTED ON THIS SCHEDULE, EXISTING IS TO REMAIN. PATCH TO MATCH IF DISTURBED BY THIS NEW WORK.
2. PROTECT EXISTING FINISHES WHICH ARE TO REMAIN THROUGHOUT THE CONSTRUCTION PERIOD, INCLUDING CEILING TILE, HARDWOOD FLOORS, CASEWORK, WOOD TRIM AND OTHER WORK.

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FINISH SCHEDULE

A601

DOOR SCHEDULE

MARK	ROOM	DOOR TYPE	DOOR PAIR	DOOR SINGLE	DOOR SIZE	DOOR GLASS	FRAME PROFILE	FRAME TYPE	FRAME DETAILS HEAD	FRAME DETAILS JAMB	HARDWARE GROUP	KEYING	FIRE RATING	STOP	THRESHOLD	REMARKS
MAIN LEVEL																
108A	108	W	●		S1		M	1	A/A602	B/A602	54		FR20	W	T1	①
121A	121	W		●	S1		M	1	A/A602	B/A602	26			W	T1	①
127A	127	W		●	S1		M	1	B/A602	C/A602	27		FR20	W	T1	②
136A	136	W	●		S3		M	1	B/A602	C/A602	51A			W	T1	①
145A	145	W		●	S2		M	1	B/A602	C/A602	26			W	T2	①
148A	148	W	●		S4		M	1	B/A602	C/A602	54		FR20	W	T1	①

S SIZE
- S1 3'-0" x 7'-0" x 1 3/4"
- S2 3'-6" x 7'-0" x 1 3/4"
- S3 2'-8" x 7'-0" x 1 3/4"
- S4 2'-4" x 7'-0" x 1 3/4"

T THRESHOLD
- T1 CARPET REDUCER BY CARPET INSTALLER.
- T2 METAL THRESHOLD

G GLASS
- G1 NOT USED

DOOR STOP
- W WALL (NEW AT ALL DOORS ON SCHEDULE)

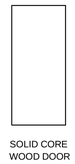
GENERAL NOTES:
A. DUE TO MULTIPLE USE, SOME OF THE DETAILS REFERRED TO ON THE DOOR SCHEDULE ARE REVERSED AND/OR TURNED FROM THE DIRECTION SHOWN ON THE FLOOR PLAN. THE GENERAL INTENT OF DETAILS SHALL IN ALL CASES BE FOLLOWED AND THE ARCHITECT CONSULTED SHOULD QUESTIONS ARISE.

B. FIELD VERIFY ALL DOOR OPENINGS FOR SIZE OF FRAMES AND DOORS.

C. SAND SMOOTH, REPAIR DAMAGED AREAS AND REFINISH ALL EXISTING HOLLOW METAL DOORS & FRAMES AT REMODELED AREAS. PAINT TO MATCH.

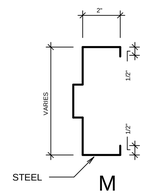
SPECIFIC DOOR NOTES:
① NEW DOOR, FRAME AND HARDWARE IN NEW WALL.

② NEW DOOR, FRAME AND HARDWARE IN MODIFIED EXISTING WALL.



W

DOOR TYPES



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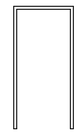
FRAME PROFILES



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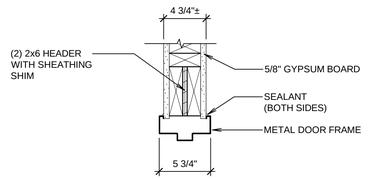
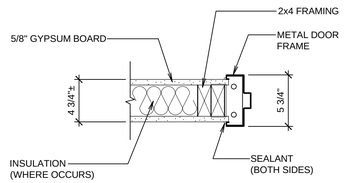
FRAME TYPES



HEAD

SCALE: 1 1/2" = 1'-0"

A



JAMB

SCALE: 1 1/2" = 1'-0"

B

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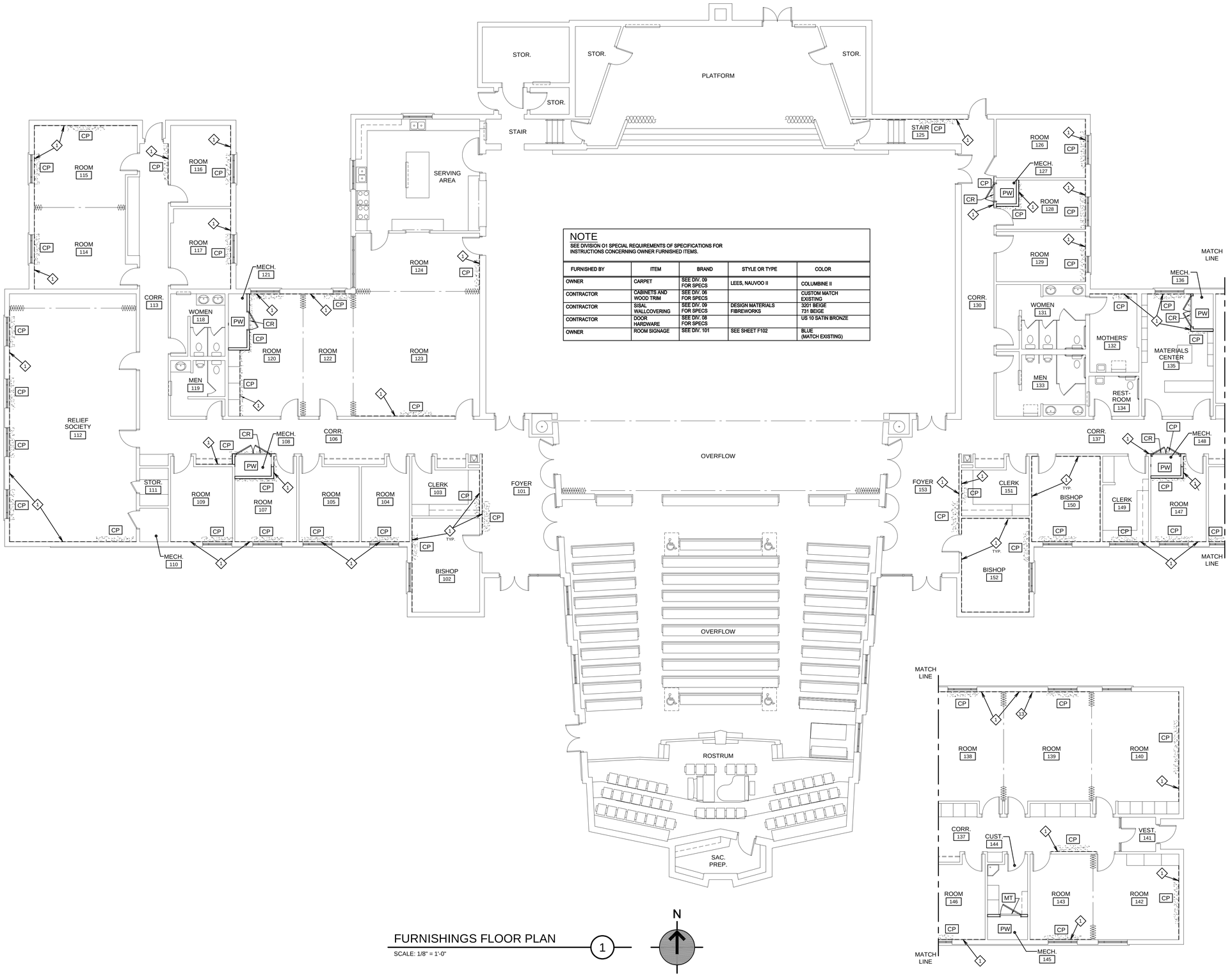
DOOR SCHEDULE

A602



NOTE

SEE DIVISION 01 SPECIAL REQUIREMENTS OF SPECIFICATIONS FOR INSTRUCTIONS CONCERNING OWNER FURNISHED ITEMS.

FURNISHED BY	ITEM	BRAND	STYLE OR TYPE	COLOR
OWNER	CARPET	SEE DIV. 09 FOR SPECS	LEES, NAUVOO II	COLUMBINE II
CONTRACTOR	CABINETS AND WOOD TRIM	SEE DIV. 06 FOR SPECS		CUSTOM MATCH EXISTING
CONTRACTOR	SISAL WALLCOVERING	SEE DIV. 09 FOR SPECS	DESIGN MATERIALS FIBREWORKS	3201 BEIGE 731 BEIGE
CONTRACTOR	DOOR HARDWARE	SEE DIV. 08 FOR SPECS		US 10 SATIN BRONZE
OWNER	ROOM SIGNAGE	SEE DIV. 101	SEE SHEET F102	BLUE (MATCH EXISTING)

FURNISHINGS FLOOR PLAN

SCALE: 1/8" = 1'-0"

FURNISHINGS KEYED NOTES

1. NEW CARPET BASE (SHOWN DASHED)

KEY TO SYMBOLS

SYMBOL	REMARKS
C	CARPET
CP	CARPET PATCH
PW	PAINT ON SURFACE
E	EXISTING TO REMAIN
MT	METAL THRESHOLD
CR	CARPET REDUCER (BY CARPET INSTALLER)
AT	ACOUSTICAL THRESHOLD
ET	EXISTING THRESHOLD TO REMAIN

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FURNISHINGS FLOOR PLAN AND SCHEDULE

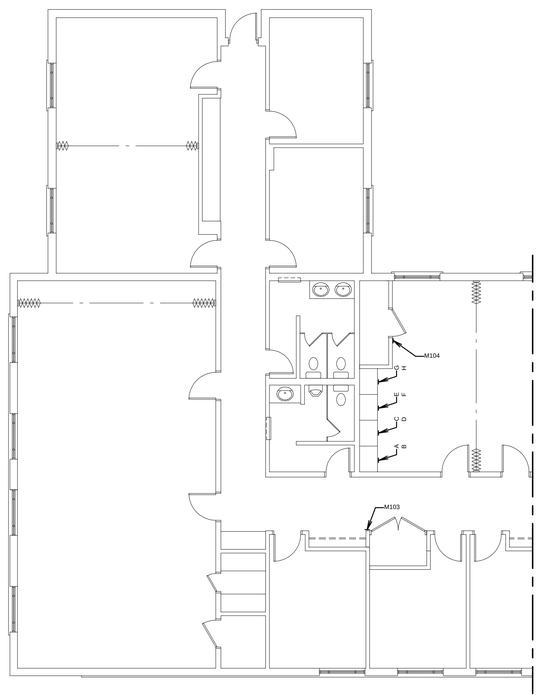
F101

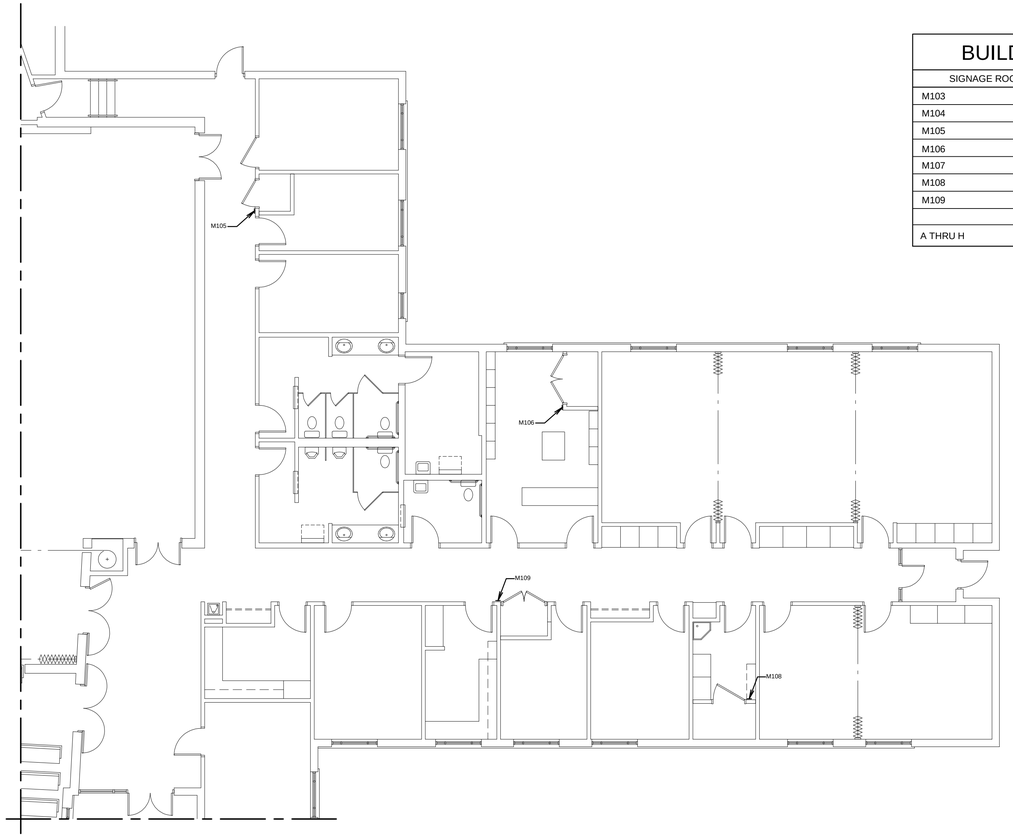
D

C

B

A





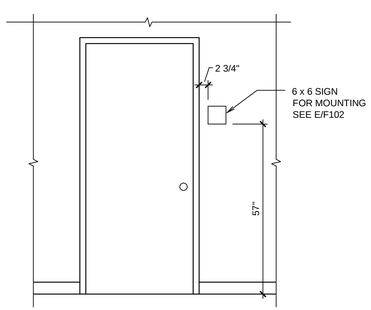
BUILDING SIGNAGE SCHEDULE

SIGNAGE ROOM NAME OR NUMBER	QUANTITY	SIZE	MOUNTING
M103	1	6x6	A/F102
M104	1	6x6	A/F102
M105	1	6x6	A/F102
M106	1	6x6	A/F102
M107	1	6x6	A/F102
M108	1	6x6	A/F102
M109	1	6x6	A/F102
A THRU H	1	2x6	C/F102

ROOM SIGNAGE LOCATION PLAN 1

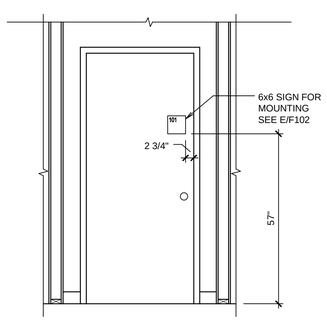
SCALE: 1/8" = 1'-0"

N



MOLDED SIGN MOUNTING LOCATION NEXT TO DOOR A

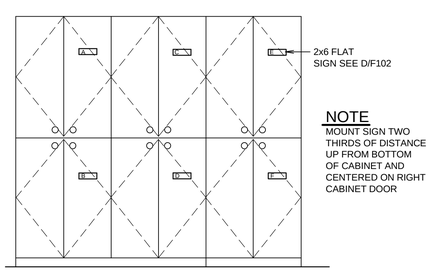
SCALE: 1/2" = 1'-0"



MOLDED SIGN MOUNTING LOCATION ON DOOR C

SCALE: 1/2" = 1'-0"

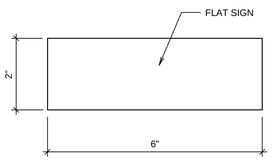
NOTE: MOLDED SIGNS MUST NOT BE MOUNTED ON DOORS UNLESS NO OTHER ALTERNATIVE IS AVAILABLE



NOTE
MOUNT SIGN TWO THIRDS OF DISTANCE UP FROM BOTTOM OF CABINET AND CENTERED ON RIGHT CABINET DOOR

FLAT SIGN MOUNTING LOCATION ON CABINETS C

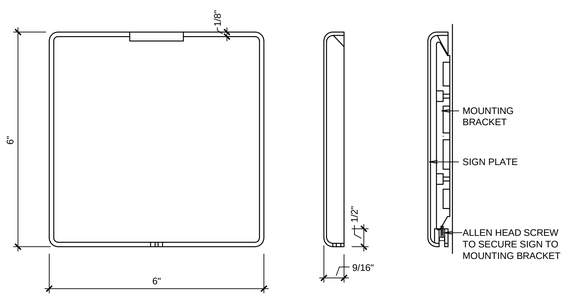
SCALE: 1/2" = 1'-0"



NOTE: SIGN IS SUPPLIED WITH SELF-ADHESIVE

FLAT SIGN DETAIL D

SCALE: 6" = 1'-0"



SIGN PLATE DETAIL

INSTALLATION DETAIL

MOLDED SIGN MOUNTING DETAIL E

SCALE: 6" = 1'-0"

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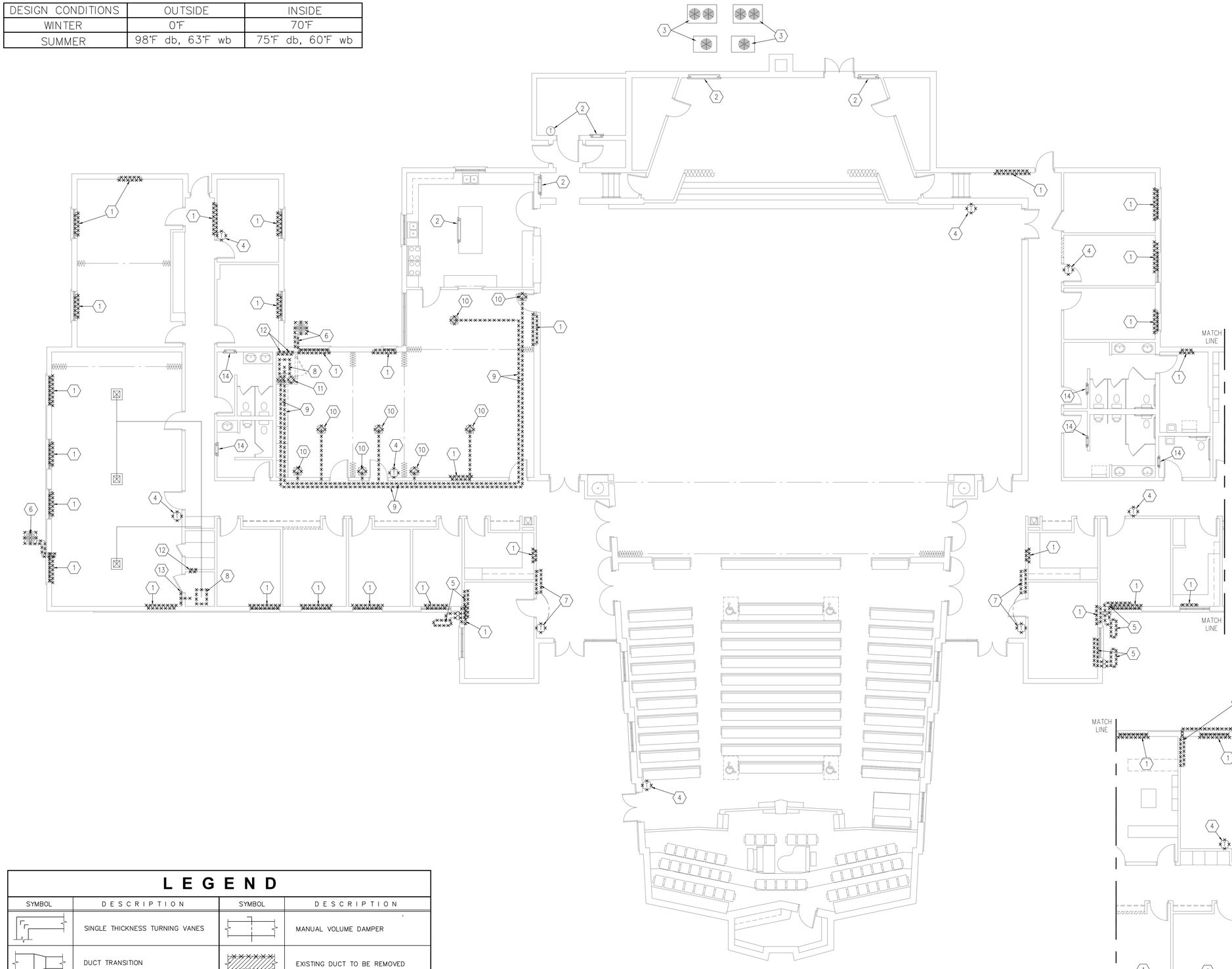
ROOM SIGNAGE

F102

DESIGN CONDITIONS	OUTSIDE	INSIDE
WINTER	0°F	70°F
SUMMER	98°F db, 63°F wb	75°F db, 60°F wb



N

1 MD101 MAIN LEVEL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
0' 8' 16'

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE THICKNESS TURNING VANES		MANUAL VOLUME DAMPER
	DUCT TRANSITION		EXISTING DUCT TO BE REMOVED
	ACCESS DOOR		EXISTING DUCT TO REMAIN
	MOTORIZED DAMPER	SA	SUPPLY AIR
		RA	RETURN AIR
		OA	OUTSIDE AIR

GENERAL NOTES

1. EXISTING DUCTWORK AND EQUIPMENT SHOWN FOR CONTRACTOR'S REFERENCE. FIELD DETERMINE EXACT SIZE, ELEVATION, AND LOCATION OF EXISTING ITEMS, INCLUDING THEIR RELATIONSHIP WITH INTENDED WORK PRIOR TO STARTING ANY WORK.
2. PATCH AND REPAIR ALL EXISTING SURFACES DAMAGED BY NEW CONSTRUCTION TO MATCH EXISTING.
3. SAW CUT OR CORE DRILL ALL NEW PENETRATIONS THROUGH EXISTING MASONARY CONSTRUCTION.
4. IF CONTRACTOR ENCOUNTERS MATERIAL THAT MAY CONTAIN ASBESTOS, HE SHALL IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
5. DEMOLITION – GENERAL:
   a. REMOVAL OF EQUIPMENT, PIPING, OR DUCTWORK TO INCLUDE REMOVAL OF ALL RELATED APPURTENANCES SUCH AS WIRING, CONDUIT, SUPPORTS, ETC. AND MODIFICATIONS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
   b. REMOVE BRANCH CONDUIT AND WIRING COMPLETELY. TERMINATE AT JUNCTION BOX.
   c. PATCH AND REPAIR ALL EXISTING SURFACES (WALL, ROOF, FLOOR, CEILING, ETC.) TO MATCH EXISTING.
6. REMODEL – GENERAL:
   a. ALL NEW CONDUIT, PIPING, DUCT, EQUIPMENT, AND APPURTENANCES TO BE CONCEALED UNLESS OTHERWISE NOTED.
   b. EXISTING SURFACES (WALL, ROOF, FLOOR, CEILING, ETC.) TO BE REMOVED AS REQUIRED AND REPLACE TO MATCH EXISTING.

KEYED NOTES

1. REMOVE EXISTING STEAM CONVECTOR HEATING ELEMENT AND CABINET INCLUDING ALL CONTROLS AND BRANCH PIPING.
2. EXISTING STEAM CONVECTOR TO REMAIN. REMOVE EXISTING THERMOSTATIC STEAM TRAP AND CONTROL VALVE FOR REPLACEMENT. (CONTROL VALVE TO REMAIN AT STORAGE UNIT)
3. EXISTING CONDENSING UNITS SERVING CHAPEL AND CULTURAL CENTER ZONES TO REMAIN.
4. CAREFULLY REMOVE EXISTING ZONE TOUCH SCREEN THERMOSTAT FOR REPLACEMENT WITH NEW. SALVAGE THERMOSTAT TO OWNER
5. CAREFULLY REMOVE EXISTING DUCTLESS SPLIT SYSTEM IN ITS ENTIRETY. SALVAGE EQUIPMENT IN WORKING ORDER TO OWNER.
6. REMOVE EXISTING AIR-COOLED CONDENSING UNIT AND RELATED REFRIGERANT PIPING AND CONTROLS.
7. REMOVE EXISTING CABINET UNIT HEATER INCLUDING THERMOSTATIC CONTROL AND BRANCH STEAM PIPING.
8. REMOVE EXISTING FAN COIL UNIT IN ITS ENTIRETY.
9. REMOVE EXISTING SUPPLY AND RETURN AIR DUCT SYSTEMS.
10. REMOVE EXISTING CEILING OUTLET OR INLET FOR REPLACEMENT.
11. REMOVE EXISTING OUTSIDE AIR DUCT AND INLET FOR REPLACEMENT.
12. REMOVE EXISTING RELAY PANEL AND EQUIPMENT INTERFACE MODULE. SALVAGE E.I.M. TO OWNER.
13. REMOVE EXISTING LOW SIDEWALL RETURN AIR GRILLE AND ASSOCIATED RETURN AIR DUCT FOR REPLACEMENT.
14. EXISTING STEAM CONVECTOR CABINET AND ELEMENT TO REMAIN AS INOPERABLE.

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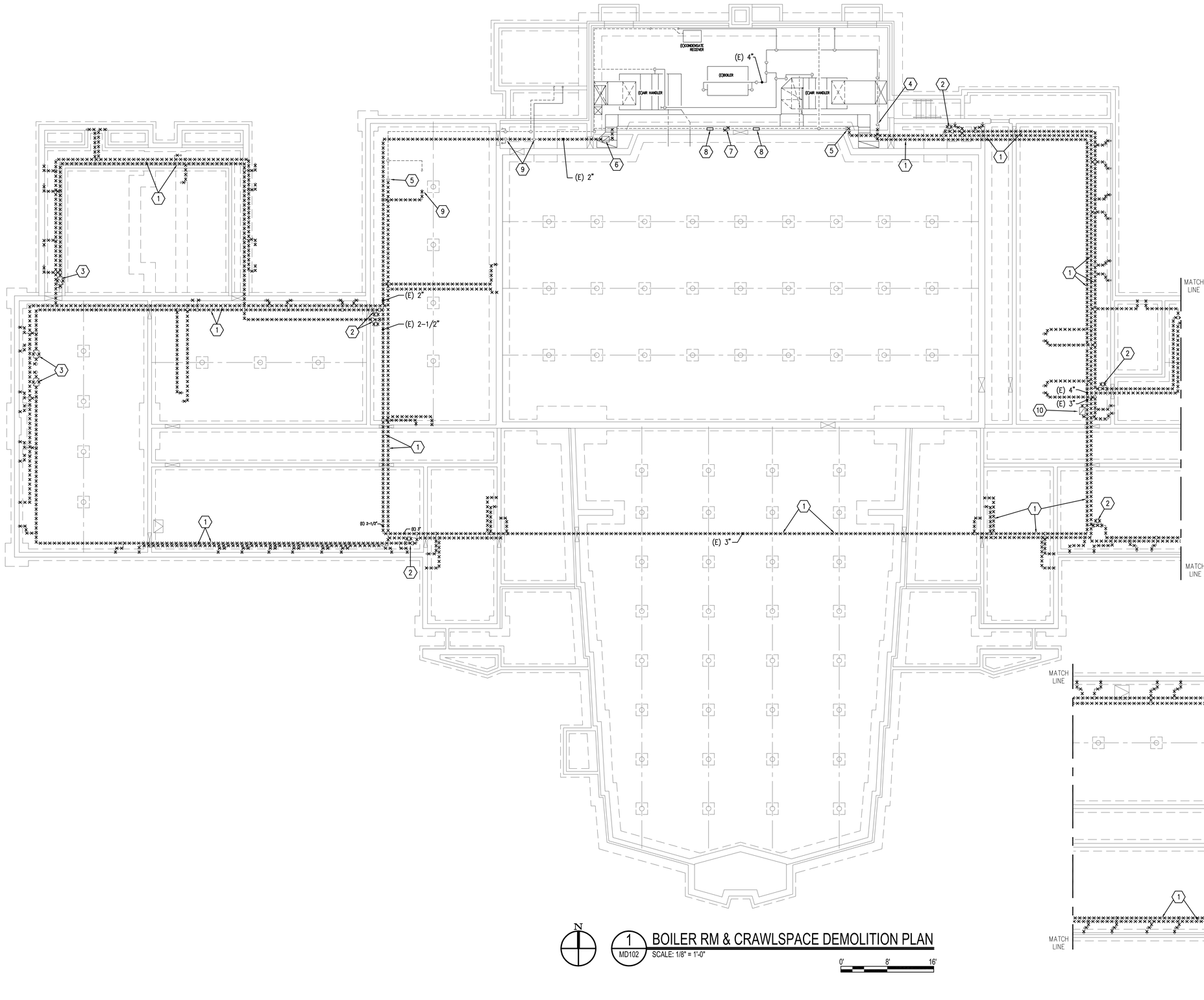
MAIN LEVEL DEMOLITION PLAN

MD101



1 MD102 BOILER RM & CRAWLSPACE DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

0' 8' 16'

KEYED NOTES

1. REMOVE EXISTING STEAM SUPPLY AND CONDENSATE RETURN PIPING FROM CRAWLSPACE AS SHOWN INCLUDING BRANCH PIPING, PIPE INSULATION, SUPPORT MATERIALS, AND ALL APPURTENANCES.
2. REMOVE TWO-WAY STEAM CONTROL VALVE INCLUDING ACTUATOR AND ALL CONTROL WIRING.
3. REMOVE EXISTING F&T STEAM TRAP INCLUDING ANY EXISTING TRAPS LOCATED IN CRAWLSPACE THAT WAS LEFT FROM EARLIER REPLACEMENT..
4. CAP EXISTING STEAM SUPPLY PIPE AT THIS LOCATION AND REMOVE ALL EXISTING PIPING BEYOND.
5. CAP EXISTING STEAM CONDENSATE RETURN PIPING AT THIS LOCATION AND REMOVE EXISTING PIPING UPSTREAM OF THIS POINT.
6. EXISTING STEAM TRAP TO BE CAREFULLY REMOVED FOR RELOCATION TO CRAWLSPACE EAST OF THIS LOCATION, SEE SHEET M102 FOR NEW INSTALLATION LOCATION.
7. REMOVE EXISTING RELAY PANEL AND EQUIPMENT INTERFACE MODULE. SALVAGE E.I.M. TO OWNER.
8. EXISTING RELAY PANEL TO REMAIN. REMOVE EXISTING EQUIPMENT INTERFACE MODULE. SALVAGE E.I.M. TO OWNER.
9. STEAM BRANCH SUPPLY PIPING TO REMAIN FOR RECONNECTION.
10. EXISTING STEAM TRAP TO BE CAREFULLY REMOVED FOR RELOCATION TO BOILER ROOM NORTH OF THIS LOCATION. SEE SHEET M102 FOR NEW INSTALLATION LOCATION.

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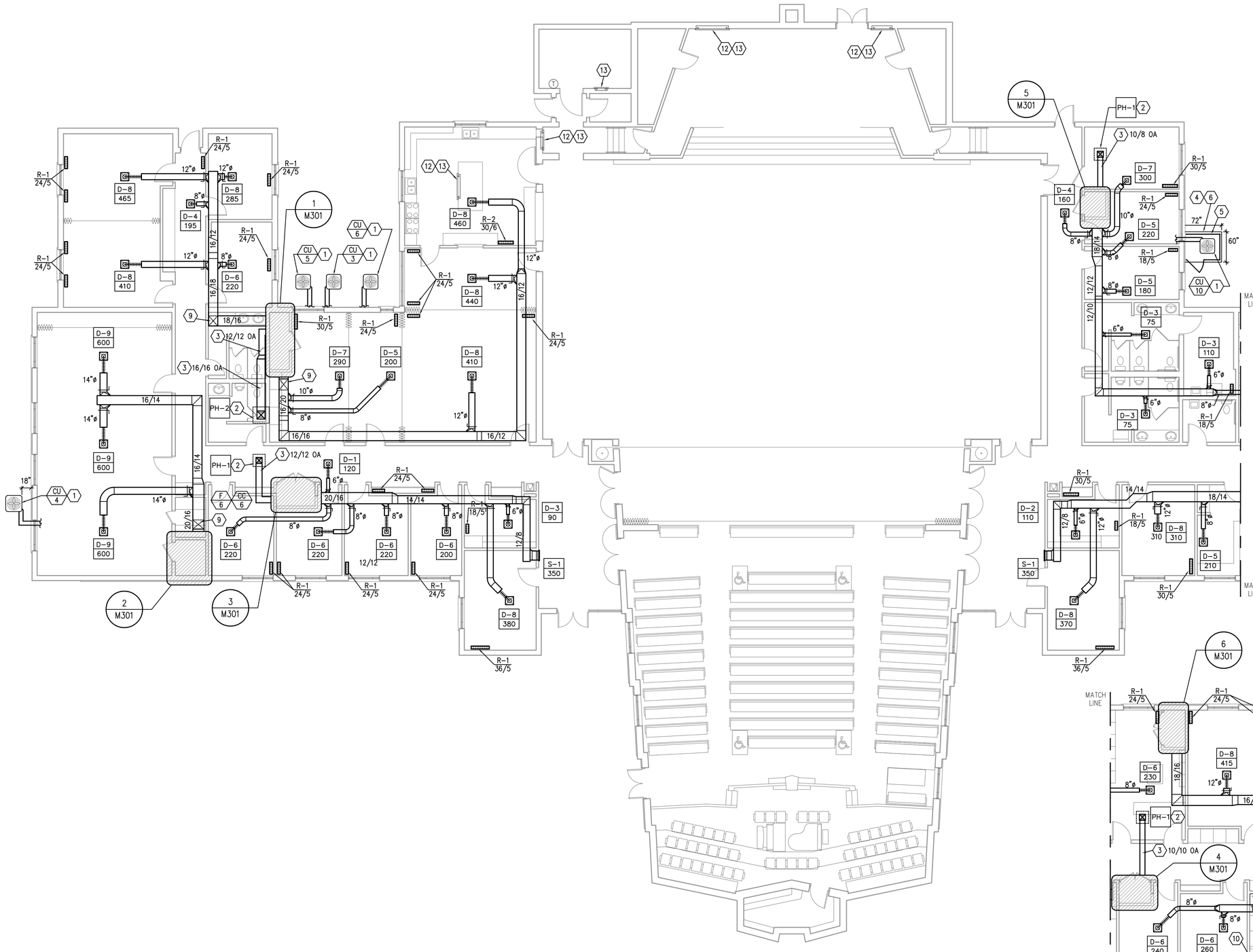
BOILER ROOM & CRAWLSPACE DEMOLITION PLAN

MD102



1 M101 MAIN LEVEL MECHANICAL PLAN
SCALE: 1/8" = 1'-0"
0' 8' 16'

KEYED NOTES

1. NEW AIR-COOLED CONDENSING UNIT AND REFRIGERANT PIPING. FIELD VERIFY EXACT LOCATIONS TO MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. REFER TO SHEET M501 FOR REFRIGERANT PIPING SCHEME AND DETAILS.
2. NEW MINIMUM OA INTAKE PENTHOUSE ON ROOF. FIELD COORDINATE EXACT LOCATION WITH EXISTING ROOF TRUSSES. MUST BE 10'-0" MINIMUM AWAY FROM ANY FURNACE OR PLUMBING VENTS.
3. UNLINED MINIMUM OUTSIDE AIR DUCT FROM INTAKE PENTHOUSE. PROVIDE SPECIFIED DUCT WRAP.
4. INSTALL NEW 4" CONCRETE SLAB ON COMPACTED BASE FOR NEW MECHANICAL EQUIPMENT. PROVIDE EXPANSION JOINT AGAINST BUILDING. REMOVE/REVISE EXISTING LANDSCAPING, IRRIGATION, AND OTHER EXISTING WORK AS REQUIRED TO ACCOMMODATE NEW WORK. SLOPE CONCRETE AWAY FROM BUILDING 1/4" PER FOOT.
5. INSTALL NEW 6'-0" TALL CHAIN LINK FENCE AT NEW CONCRETE EQUIPMENT PAD. PROVIDE NEW 36" ACCESS GATE. SEE SPECIFICATIONS.
6. DIMENSIONS SHOWN FOR BIDDING PURPOSES ONLY. FIELD VERIFY EXACT DIMENSIONS REQUIRED.
7. FURNACE VENT AND COMBUSTION AIR PIPING UP THROUGH ROOF. REFER TO DETAIL D/M502. FIELD VERIFY EXACT LOCATION WITH EXISTING STRUCTURE.
8. VERTICAL FURNACE AND COOLING COIL. PROVIDE 14" TALL MIXED AIR PLENUM BELOW FURNACE TO ALLOW CONNECTION OF MAIN RA DUCT AT BOTTOM OF PLENUM AND MINIMUM OUTSIDE AIR DUCT CONNECTION AT SIDE OF PLENUM. PROVIDE EXTERNAL FILTER RACK AT TOP OF PLENUM FOR CONNECTION TO BOTTOM INLET OF FURNACE.
9. MAIN SUPPLY DUCT UP TO ATTIC SPACE. FIELD COORDINATE EXACT LOCATION WITH EXISTING ROOF STRUCTURE.
10. UNLINED OUTSIDE AIR PLENUM. 12" DEEP FULL LOUVER SIZE. WRAP WITH SPECIFIED DUCT WRAP.
11. UNLINED AND WRAPPED OUTSIDE AIR DUCT. DROP FOR CONNECTION TO MIXED AIR PLENUM BELOW FURNACE. REFER TO DETAIL A/M502 FOR OUTSIDE AIR CONTROLS.
12. INSTALL NEW DANFOSS SELF-CONTAINED THERMOSTATIC CONTROL VALVE. MATCH EXISTING BRANCH PIPING SIZE. DANFOSS RA 2000 WITH TAMPER RESISTANT, VALVE MOUNTED, DIAL SENSOR.
13. INSTALL NEW THERMOSTATIC STEAM TRAP AT CONVECTOR RETURN SIDE. FIELD VERIFY SIZE.

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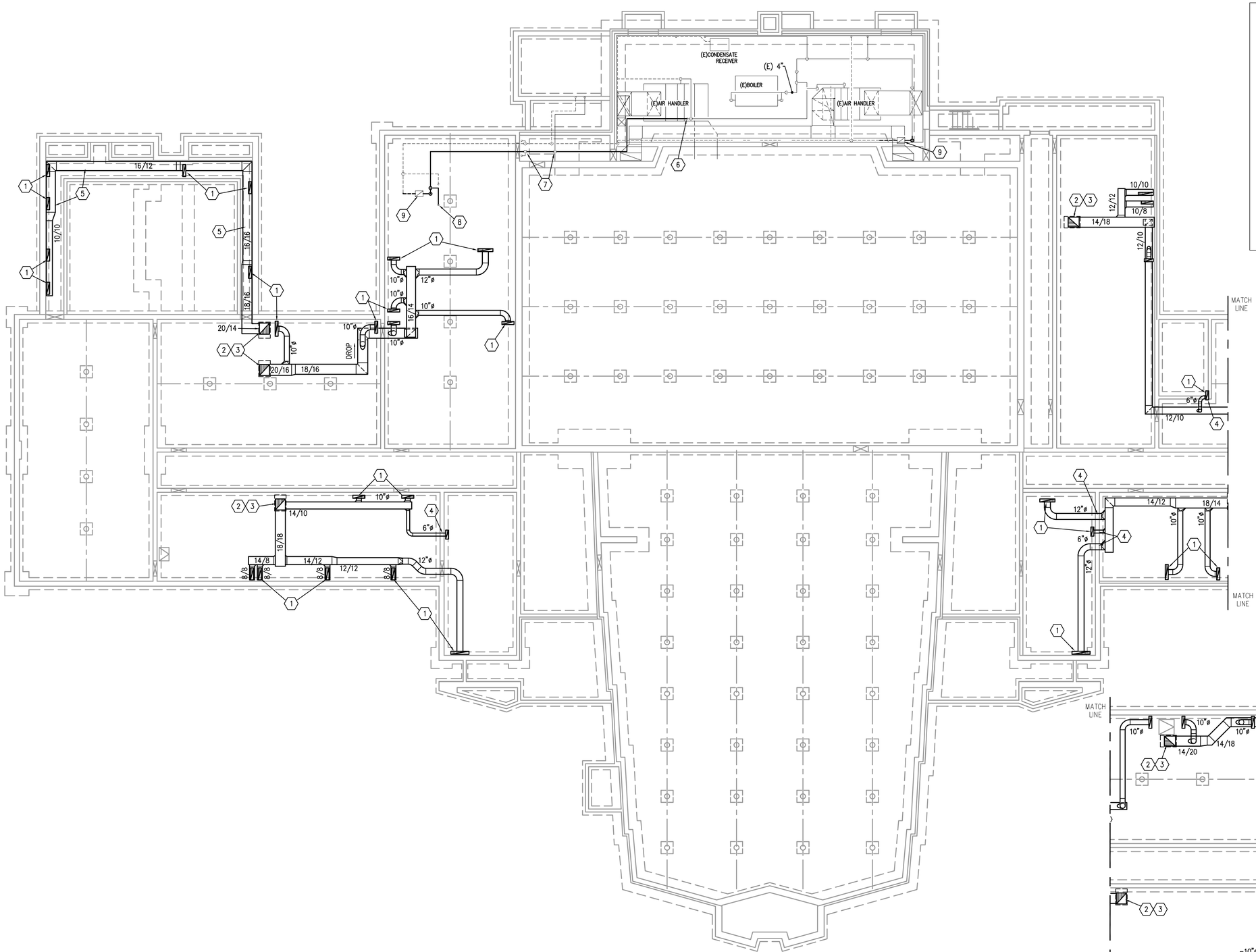
MAIN LEVEL MECHANICAL PLAN

M101



N

1 M102 BOILER RM & CRAWLSPACE MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

0' 8' 16'

KEYED NOTES

1. UNLINED RETURN AIR DUCT UP TO FLOOR RETURN AIR GRILLE. REFER TO GRILLE SIZE ABOVE. TYPICAL.
2. LINED RETURN AIR DUCT UP TO MIXED AIR PLENUM ABOVE. PROVIDE SHEET METAL PAN AROUND ANY CONFLICTING WOOD FLOOR JOISTS. SEAL ALL EDGES.
3. SEE LARGE SCALE PLANS, SHEET M301, FOR CONTINUATION.
4. SAW CUT OPENING THROUGH FOUNDATION WALL FOR ROUTING NEW RETURN AIR DUCT. LOCATE OPENING BETWEEN FLOOR JOISTS. FIELD VERIFY.
5. ROUTE RETURN AIR DUCT THROUGH EXISTING TUNNEL.
6. CONNECT NEW 2" STEAM PIPE TO END OF EXISTING PIPING IN BOILER ROOM.
7. RECONNECT EXISTING BRANCH STEAM PIPING TO NEW 2" STEAM PIPING.
8. ROUTE NEW 1-1/2" STEAM BRANCH PIPE AND CONNECT TO EXISTING FROM EXISTING CONVECTOR ABOVE.
9. RE-INSTALL EXISTING END OF MAIN STEAM TRAP AT THIS LOCATION. RECONNECT TO EXISTING 1-1/2" STEAM CONDENSATE RETURN. REFER TO DETAIL 6/M502. PROVIDE REDUCING ELBOW AT STEAM MAIN END TO INLET SIZE OF EXISTING STEAM TRAP. FIELD VERIFY.

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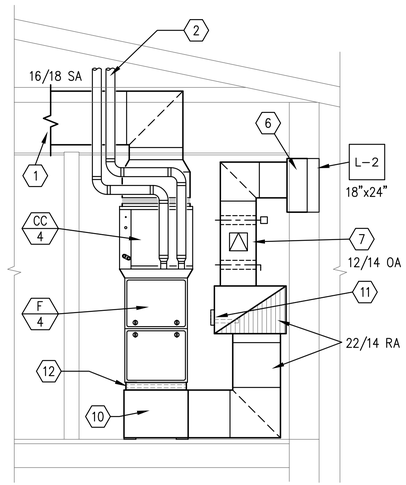
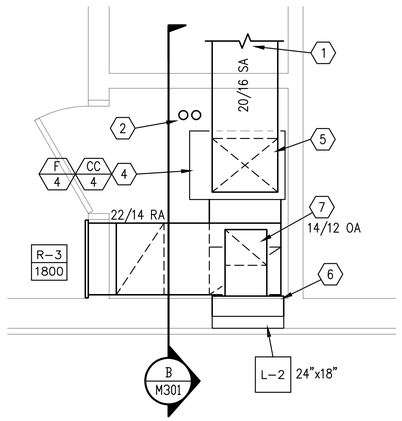
BOILER ROOM & CRAWLSPACE MECHANICAL PLAN

M102



B MECHANICAL ROOM SECTION
M301 SCALE: 1/2" = 1'-0"



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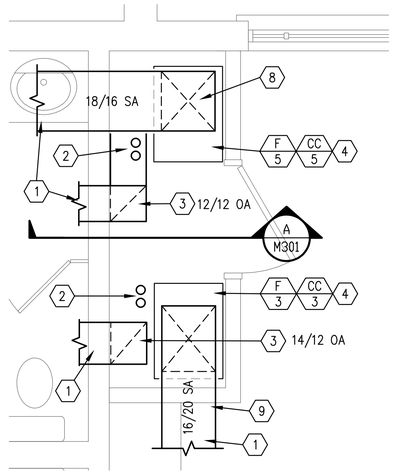
2 ENLARGED MECHANICAL PLAN
M301 SCALE: 1/2" = 1'-0"



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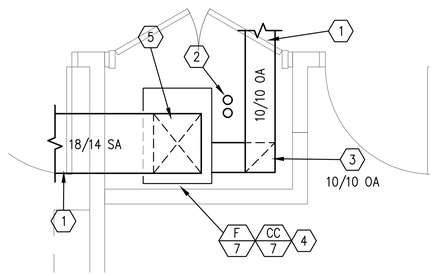
1 ENLARGED MECHANICAL PLAN
M301 SCALE: 1/2" = 1'-0"



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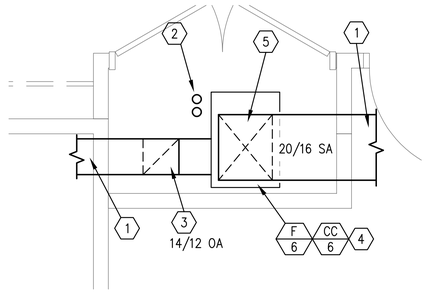
4 ENLARGED MECHANICAL PLAN
M301 SCALE: 1/2" = 1'-0"



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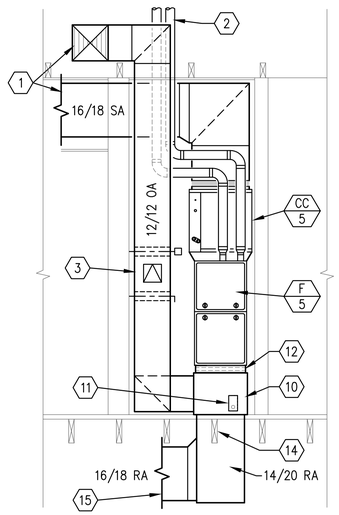
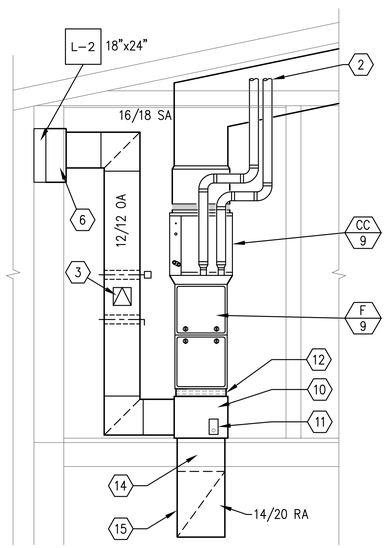
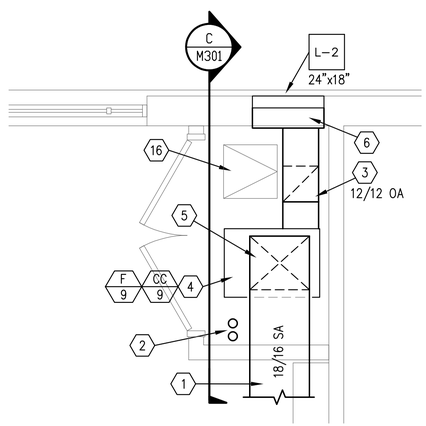
3 ENLARGED MECHANICAL PLAN
M301 SCALE: 1/2" = 1'-0"



A MECHANICAL ROOM SECTION
M301 SCALE: 1/2" = 1'-0"



C MECHANICAL ROOM SECTION
M301 SCALE: 1/2" = 1'-0"



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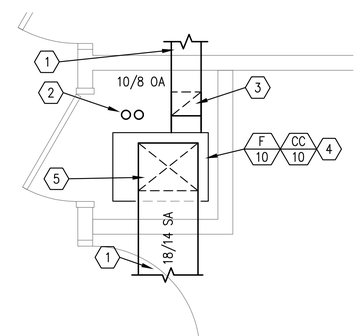
6 ENLARGED MECHANICAL PLAN
M301 SCALE: 1/2" = 1'-0"



N

5 ENLARGED MECHANICAL PLAN
M301 SCALE: 1/2" = 1'-0"

KEYED NOTES

1. SEE SHEET M101 FOR CONTINUATION.
2. FURNACE VENT AND COMBUSTION AIR PIPING UP THROUGH ROOF. REFER TO DETAIL D/M502. FIELD VERIFY EXACT LOCATION WITH EXISTING STRUCTURE AND 10' MIN AWAY FROM OA INTAKE.
3. UNLINED AND WRAPPED OUTSIDE AIR DUCT. DROP FROM ATTIC SPACE TO MECHANICAL ROOM FOR CONNECTION TO MIXED AIR PLENUM BELOW FURNACE. REFER TO DETAIL H/M502 FOR OUTSIDE AIR CONTROLS.
4. VERTICAL FURNACE AND COOLING COIL. PROVIDE 14" OR 16" TALL MIXED AIR PLENUM BELOW FURNACE TO ALLOW CONNECTION OF MAIN RA AT BOTTOM OF PLENUM AND MINIMUM OUTSIDE AIR DUCT CONNECTION AT SIDE OF PLENUM. PROVIDE EXTERNAL FILTER RACK AT TOP OF PLENUM FOR CONNECTION TO BOTTOM INLET OF FURNACE.
5. MAIN SUPPLY DUCT UP TO ATTIC SPACE. FIELD COORDINATE EXACT LOCATION WITH EXISTING ROOF STRUCTURE.
6. UNLINED OUTSIDE AIR PLENUM. 12" DEEP FULL LOUVER SIZE. WRAP WITH SPECIFIED DUCT WRAP.
7. UNLINED AND WRAPPED OUTSIDE AIR DUCT. DROP FOR CONNECTION TO MAIN RETURN AIR DUCT. REFER TO DETAIL H/M502 FOR OUTSIDE AIR CONTROLS.
8. ROUTE MAIN SUPPLY DUCT THROUGH WALL INTO FURRED CEILING SPACE AT RESTROOM.
9. ROUTE MAIN SUPPLY DUCT AT TOP OF EXISTING STORAGE CABINETS.
10. 14" OR 16" TALL LINED MIXED AIR PLENUM BELOW FURNACE FOR CONNECTION OF MINIMUM OUTSIDE AIR AND MAIN RETURN AIR DUCTS.
11. CO2 SENSOR. REFER TO SHEET ME701.
12. EXTERNAL FILTER RACK. REFER TO DETAIL J/M502.
13. FLEXIBLE CONNECTION.
14. SHEET METAL PAN AROUND ANY CONFLICTING WOOD FLOOR JOISTS. SEAL ALL EDGES.
15. SEE SHEET M102 FOR CONTINUATION.
16. CRAWLSPACE ACCESS DOOR TO REMAIN OPERABLE.

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LARGE SCALE MECHANICAL PLANS & SECTIONS

M301

D

C

B

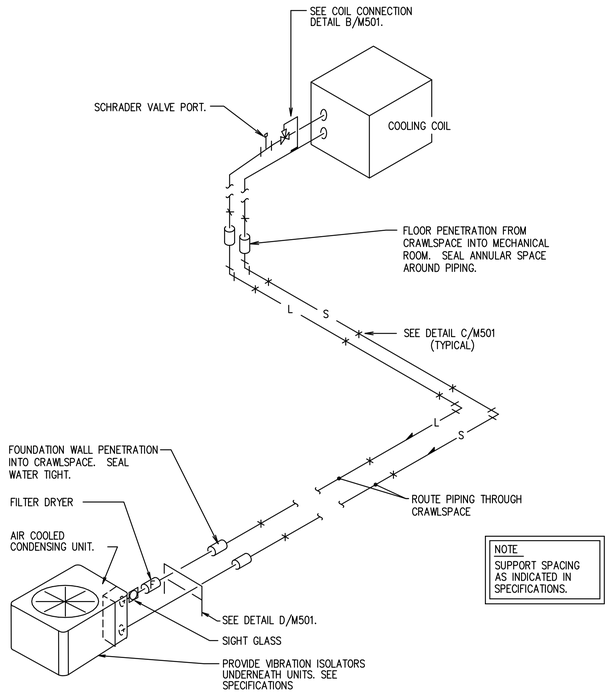
A

REFRIGERANT LINE SIZES

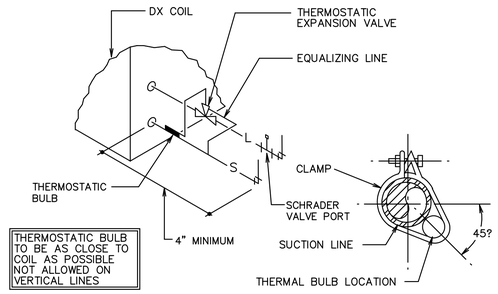
UNIT	LIQUID	SUCTION	REMARKS
CU 5	3/8"	7/8"	4.0 TON
CU 6	3/8"	7/8"	4.0 TON
CU 7	3/8"	7/8"	3.5 TON
CU 8	3/8"	7/8"	4.0 TON
CU 8	3/8"	7/8"	3.0 TON
CU 8	3/8"	7/8"	3.0 TON
CU 8	3/8"	7/8"	3.5 TON
CU 8	3/8"	7/8"	3.0 TON

REFRIGERANT PIPING LEGEND

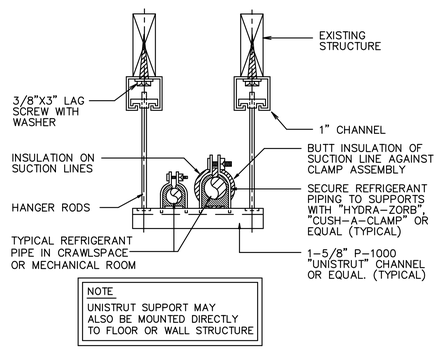
SYMBOL	DESCRIPTION
	EXPANSION VALVE. SEE DETAIL B/M501
	MOISTURE INDICATING SIGHT GLASS
F	FILTER DRIER
	PIPE SUPPORT. SEE DETAIL C/M501 E/M501
	EXTERIOR PIPE SUPPORT. SEE DETAIL D/M501
	TRAP. ONE PIECE FACTORY FABRICATED
	DIRECTION OF SLOPE DOWN
S	SUCTION LINE
L	LIQUID LINE
	SCHRADER VALVE PORT



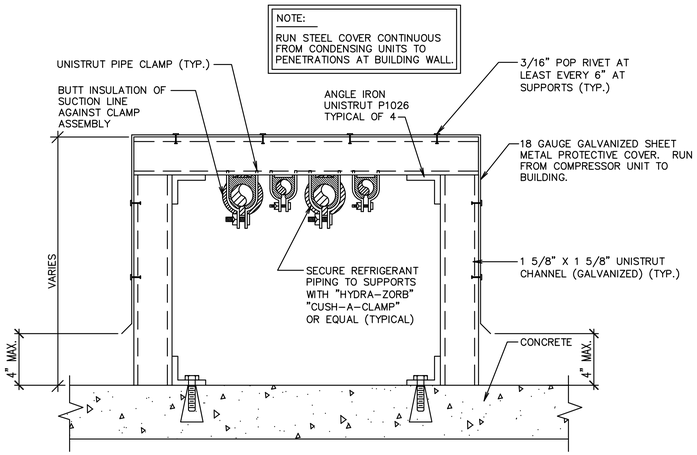
A M501 REFRIGERANT SCHEME
NO SCALE



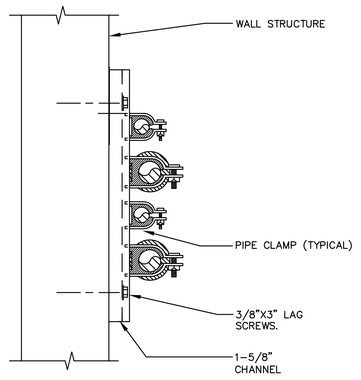
B M501 REFRIGERANT COIL CONNECTION DETAIL
NO SCALE



C M501 REFRIGERANT PIPE SUPPORT AT CRAWLSPACE
NO SCALE



D M501 EXTERIOR REFRIGERANT PIPE SUPPORT DETAIL
NO SCALE



E M501 REFRIGERANT PIPE WALL SUPPORT
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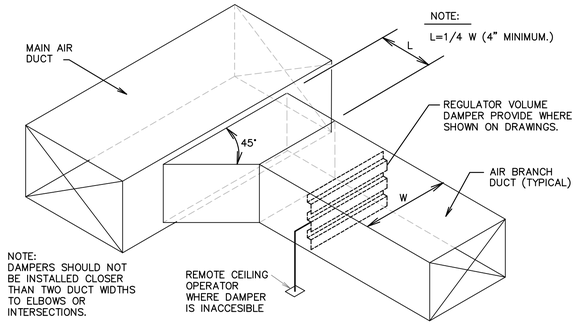


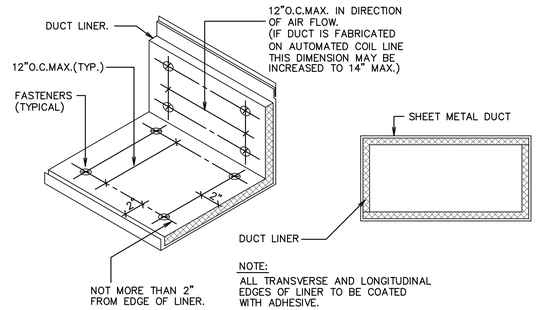
A / M502 — SUPPLY OR RETURN AIR DUCT BRANCH CONNECTION DETAIL
NO SCALE

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	TRANSVERSE REINFORCING (1)					
		MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	AT JOINTS				
			MIN. H. IN.	DRIVE SLIP / PLAIN S SLIP	HEMMED S SLIP	ALTER'NT BAR SLIP	REIN-FORCED BAR SLIP
				RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 – 18	24	NONE REQUIRED	1	24	24	24	24
19 – 30	24	1"X1"X1/8" @ 60 IN	1	–	24	24	24
31 – 36	22	1"X1"X1/8" @ 60 IN	1	–	–	22	22

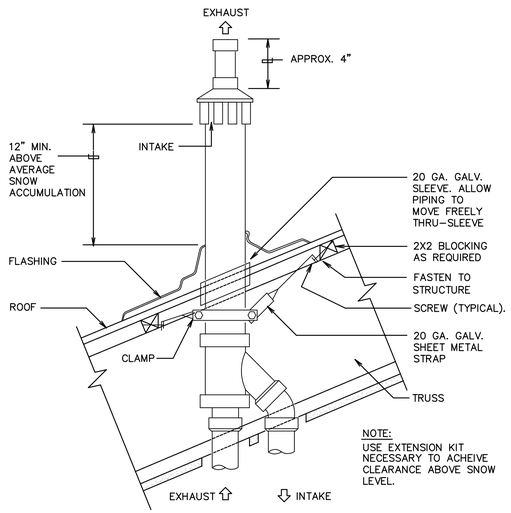
(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

(2) LONGITUDINAL JOINTS TO BE PITTSBURG OR SNAP LOCK TYPE.

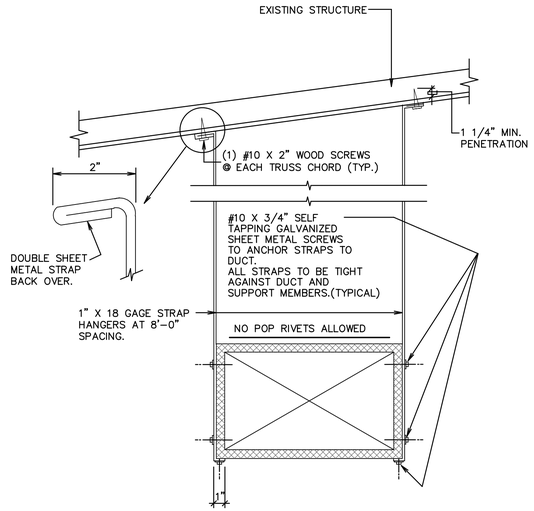
B / M502 — DUCT CONSTRUCTION DETAIL
NO SCALE



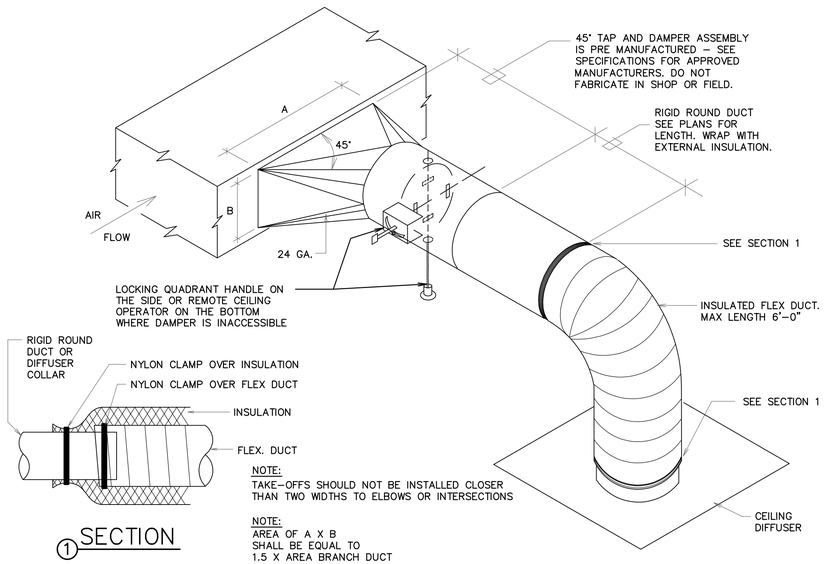
C / M502 — DUCT LINER DETAIL
NO SCALE



D / M502 — CONCENTRIC ROOF TERMINATION DETAIL (SIMILAR)
NO SCALE



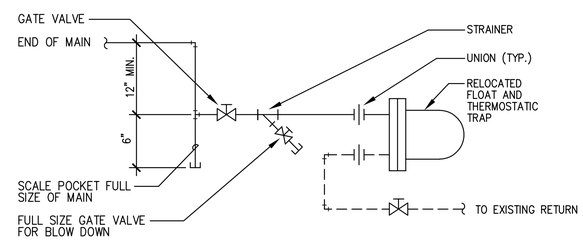
E / M502 — DUCT STRAP HANGER DETAIL
NO SCALE



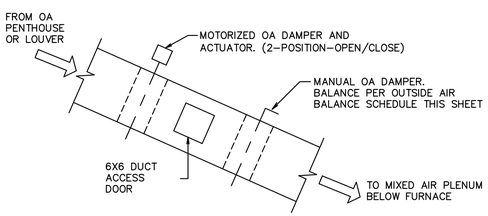
1 SECTION

F / M502 — SQUARE TO ROUND TAKE-OFF DETAIL
NO SCALE

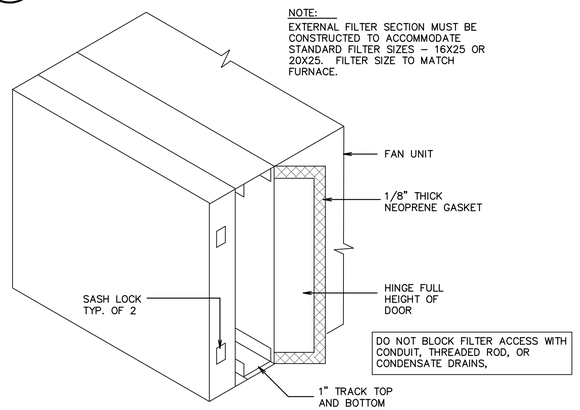
OUTSIDE AIR BALANCE SCHEDULE								
MARK	BALANCE TO CFM	DUCT SIZE	MARK	BALANCE TO CFM	DUCT SIZE	MARK	BALANCE TO CFM	DUCT SIZE
F 3	540	14/12	F 6	400	12/12	F 9	470	12/12
F 4	510	14/12	F 7	300	10/10	F 10	190	10/8
F 5	390	12/12	F 8	300	10/10			



G / M502 — LOW PRESSURE END OF MAIN DRIP DETAIL
NO SCALE



H / M502 — OUTSIDE AIR DUCT DETAIL
NO SCALE



J / M502 — EXTERNAL FILTER SECTION DETAIL
NO SCALE

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M502

DIFFUSER SCHEDULE (2)(4)

MARK	C.F.M. RANGE (1)	DIFFUSER SIZE	NECK CONN.	BLOW	PATTERN	AIR DIST./SIDE A (%)	AIR DIST./SIDE B (%)
D-1	120	6X6	6"ø	2 WAY	A◁□▷B	50	50
D-2	110	6X6	6"ø	3 WAY	A△ ◁▷B	38	31
D-3	75 – 110	6X6	6"ø	4 WAY	A△ ◁▷B ▽	25	25
D-4	160 – 200	9X9	8"ø	2 WAY	A◁□▷B	50	50
D-5	180 – 220	9X9	8"ø	3 WAY	A△ ◁▷B	38	31
D-6	200 – 260	9X9	8"ø	4 WAY	A△ ◁▷B ▽	25	25
D-7	290 – 300	12X12	10"ø	3 WAY	A△ ◁▷B	38	31
D-8	285 – 480	12X12	12"ø	4 WAY	A△ ◁▷B ▽	25	25
D-9	600	15X15	14"ø	4 WAY	A△ ◁▷B ▽	25	25

REGISTER, LOUVER & GRILLE SCHEDULE

MARK	TYPE	SERVICE	CFM RANGE (1)	NOMINAL SIZE	REMARKS (3)
R-1	FLOOR (7)	RETURN AIR	90 – 260	5" WIDTH	SEE PLAN FOR LENGTH
R-2	FLOOR (7)	RETURN AIR	415	30X6	
R-3	SIDEWALL	RETURN AIR	1800	24X30	
S-1	SIDEWALL (4)	SUPPLY AIR	350	18X6	(5)(6)
L-1	LOUVER	OUTSIDE AIR	300	24X12	(8)(9)
L-2	LOUVER	OUTSIDE AIR	470–510	24X18	(8)(9)
PH1	PENTHOUSE	OUTSIDE AIR	190–400	12X12 THROAT	(8)(9)(10)
PH2	PENTHOUSE	OUTSIDE AIR	930	16X16 THROAT	(8)(9)(10)

(1) MAXIMUM NC=25 @ MAXIMUM CFM NOTED.
(2) SHALL BE TITUS TDC TYPE 6 OR EQUAL BY OTHER APPROVED MANUFACTURERS. (SEE SPECIFICATIONS)
(3) SEE SPECIFICATION FOR APPROVED MANUFACTURER.
(4) FINISH SHALL BE WHITE BAKED ENAMEL.
(5) BLADE ORIENTATION SHALL BE HORIZONTAL.
(6) SET REGISTER BLADES FOR 15° UPWARD DEFLECTION.
(7) FINISH SHALL BE ANODIZED ALUMINUM.
(8) PROVIDE ALUMINUM BIRD SCREENS.
(9) FINISH COLOR TO MATCH SURROUNDING SURFACE FINISH.
(10) COMPLETE WITH ACCESSORY ROOF CURB TO MATCH ROOF SLOPE. SEE SPECIFICATIONS.

AIR COOLED CONDENSING UNIT SCHEDULE

MARK (3)	NO. REQ'D	AREA SERVED	MIN. (2) SIZE (TONS)	COMPRESSOR RATED LOAD AMPS (6)	MCA (6)	MOCP (6)	REMARKS
CU 3	1	CHILDREN'S MEETING ROOM	4.0	18.3	24.3	40	24ABB348 (1)(4)(5)
CU 4	1	RELIEF SOCIETY	4.0	18.3	24.3	40	24ABB348 (1)(4)(5)
CU 5	1	NW WING	3.5	17.9	23.5	40	24ABB342 (1)(4)(5)
CU 6	1	W. BISHOP & CLASSROOMS	4.0	18.3	24.3	40	24ABB348 (1)(4)(5)
CU 7	1	EAST BISHOPS	3.0	13.6	18.1	30	24ABB336 (1)(4)(5)
CU 8	1	EAST CLASSROOMS – SOUTH	3.0	13.6	18.1	30	24ABB336 (1)(4)(5)
CU 9	1	EAST CLASSROOMS – NORTH	3.5	17.9	23.5	40	24ABB342 (1)(4)(5)
CU 10	1	N. CLASSROOMS – EAST SIDE	3.0	13.6	18.1	30	24ABB336 (1)(4)(5)

(1) REFRIGERANT R-410a; 40°F SUCTION TEMPERATURE.
(2) AT DESIGN CONDITIONS AND 95° ENTERING AIR TEMPERATURE TO CONDENSER.
(3) CONDENSING UNIT MARKS CORRESPOND WITH FURNACE AND COOLING COIL MARKS.
(4) CARRIER MODEL LISTED. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
(5) ELECTRICAL CHARACTERISTICS: 208V/1 PHASE/60 HZ.
(6) ELECTRICAL RATING FOR SCHEDULED CARRIER UNIT. COORDINATE ACTUAL RATING OF UNIT PROVIDED WITH DIVISION 26.

NOTES:

1– THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT & CONTROLS. MOTOR NAME PLATE VOLTAGE SHALL BE NEMA STANDARD 200 VOLT FOR 208 VOLT THREE PHASE SYSTEM AND SHALL BE NEMA STANDARD 230 VOLT FOR 240 VOLT THREE PHASE OR SINGLE PHASE SYSTEM. STARTER HEATERS INSTALLED SHALL BE COORDINATED WITH THE NAME PLATE DATA.

2– S.C.F.M. LISTED IS STANDARD AIR. A.C.F.M. IS ACTUAL SITE CFM.

FURNACE SCHEDULE

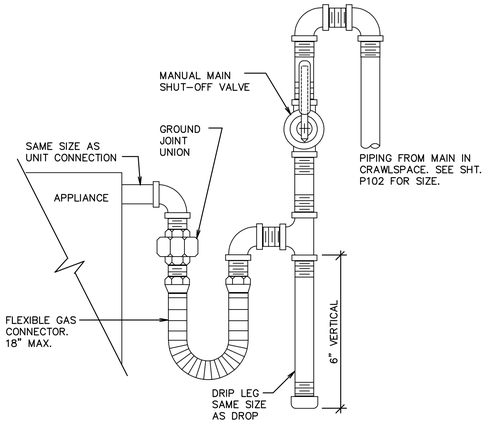
MARK (2)	NO. REQ'D	MIN.REQ'D OUTPUT BTU/HR (1)	MINIMUM A.C.F.M.	EXT. S.P. IN.W.G.	MOTOR H.P.	MOTOR '	MOTOR HERTZ	MOTOR VOLTS	MOTOR SPEED (5)	REMARKS
F 3	1	97,000	1800	0.80	1.00	1	60	115	(3)	59SC5B100E21 (4)
F 4	1	97,000	1800	0.80	1.00	1	60	115	(3)	59SC5B100E21 (4)
F 5	1	78,000	1575	0.75	0.75	1	60	115	(3)	59SC5B080E17 (4)
F 6	1	97,000	1800	0.80	1.00	1	60	115	(3)	59SC5B100E21 (4)
F 7	1	97,000	1350	1.00	0.75	1	60	115	(3)	59SC5B080E17 (4)
F 8	1	78,000	1350	1.00	0.75	1	60	115	(3)	59SC5B080E17 (4)
F 9	1	78,000	1575	0.75	0.75	1	60	115	(3)	59SC5B080E17 (4)
F 10	1	78,000	1350	1.00	0.75	1	60	115	(3)	59SC5B080E17 (4)

(1) SEA LEVEL CAPACITY.
(2) FURNACE MARKS CORRESPOND WITH CONDENSING UNIT AND COOLING COIL MARKS.
(3) FIXED–SPEEDS, CONSTANT TORQUE ECM MOTOR.
(4) CARRIER MODEL LISTED. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
(5) SET FAN MOTOR SPEED TAP TO LOWEST POSSIBLE SETTING REQUIRED TO ACHIEVE DESIGN AIRFLOW.

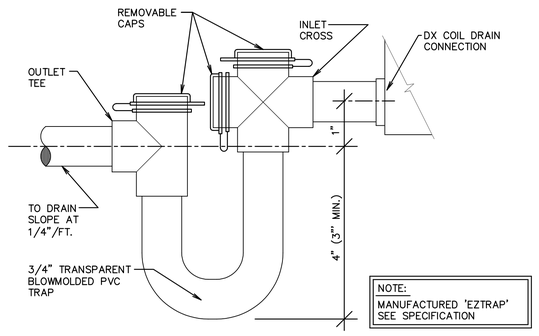
COOLING COIL SCHEDULE (1)

MARK (5)	NO. REQ'D.	CALCULATED LOAD TOT.MBH	CALCULATED LOAD SEN.MBH	COND.ENT.EVAP. DB °F	COND.ENT.EVAP. WB °F	A.C.F.M.	MAX. PR. DR. (3) IN.W.G.	S.C.F.M. (4)	REMARKS (2)
CC 3	1	46.6	46.6	83.8	61.9	1800	0.26	1534	CNPVP6024
CC 4	1	42.8	42.8	83.0	61.8	1800	0.26	1534	CNPVP6024
CC 5	1	39.5	39.5	82.3	61.5	1575	0.29	1343	CNPVP4821
CC 6	1	45.1	45.1	82.2	61.4	1800	0.26	1534	CNPVP6024
CC 7	1	33.9	33.9	82.3	61.5	1350	0.39	1151	CNPVP3617
CC 8	1	29.7	29.7	81.9	60.6	1350	0.39	1151	CNPVP3617
CC 9	1	34.7	34.7	83.6	62.0	1575	0.29	1343	CNPVP4821
CC 10	1	29.2	29.2	80.3	61.0	1350	0.39	1151	CNPVP3617

(1) COMPLETE WITH FACTORY COIL BOX AND COIL
(2) CARRIER MODEL LISTED. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
(3) WET COIL
(4) SITE ELEVATION = 4350 FEET (0.852 CFM TRANSMISSION FACTOR)
(5) COOLING COIL MARKS CORRESPOND WITH FURNACE AND CONDENSING UNIT MARKS.



C M601 GAS LINE CONNECTION DETAIL
NO SCALE



B M601 COOLING COIL CONDENSATE DRAIN DETAIL
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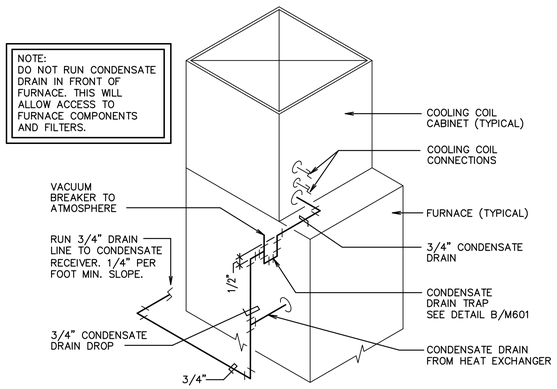

A M601 CONDENSATE DRAIN TRAP DETAIL
NO SCALE

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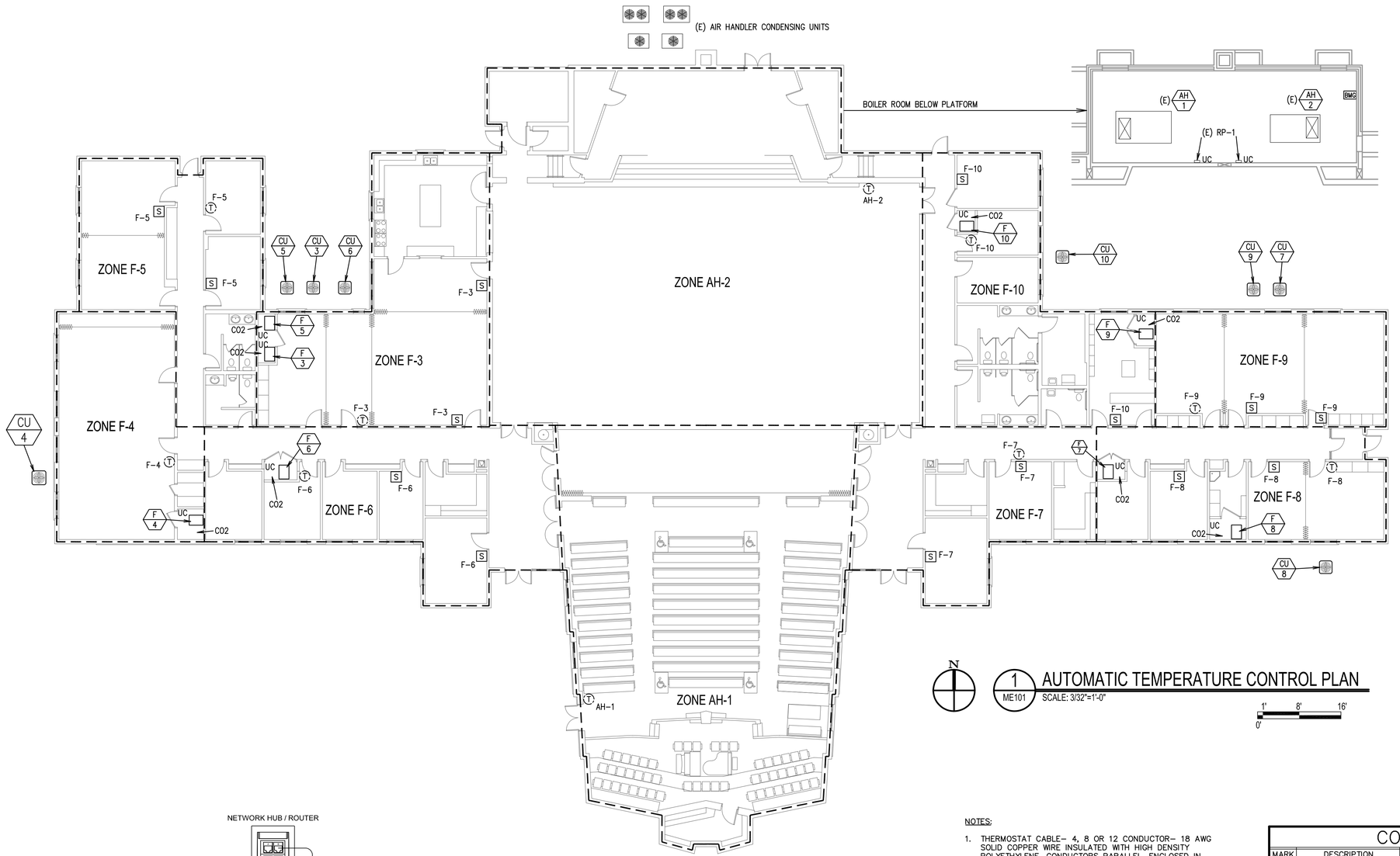
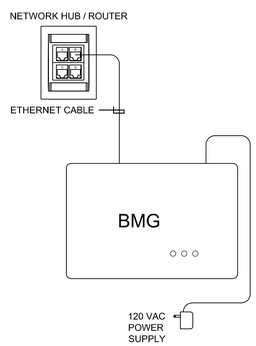
MECHANICAL SCHEDULES

M601



SYMBOLS

BMG	BUILDING MANAGEMENT GATEWAY LOCATE ADJACENT TO NETWORK HUB/ROUTER FOR CONNECTION.
S	AVERAGING SENSOR MOUNT ON WALL WITH INSULATED WOOD BASE. A/ME703.
T	LCBS TOUCH SCREEN WALL MODULE (THERMOSTAT) MOUNT ON WALL WITH INSULATED WOOD BASE. A/ME703.
UC	UNITARY CONTROLLER. MOUNT ON WALL ADJACENT TO EQUIPMENT OR ABOVE NEW RELAY PANEL.
CO2	CO_2 SENSOR (DIV 23) MOUNTED ON MAIN RA DUCT
DM-1	2-POSITION DAMPER MOTOR (DIV 23) MOUNTED ON MINIMUM OA DAMPER



BMG WIRING DIAGRAM

1 ME101 AUTOMATIC TEMPERATURE CONTROL PLAN

SCALE: 3/32"=1'-0"

1' 0' 8' 16'

NOTES:

1. THERMOSTAT CABLE– 4, 8 OR 12 CONDUCTOR– 18 AWG SOLID COPPER WIRE INSULATED WITH HIGH DENSITY POLYETHYLENE. CONDUCTORS PARALLEL. ENCLOSED IN BROWN PVC JACKET. (NO 22 AWG CABLE ALLOWED).
2. IF COMPRESSOR UNITS HAVE THEIR OWN POWER SUPPLY IT MAY BE NECESSARY TO ADD ADDITIONAL RELAYS IN COMPRESSOR UNIT TO PROPERLY INTERFACE CONTROLS.
3. USE WIRE NUT CONNECTORS FOR SPLICING CONDUCTORS IN SPECIFIED LOCATIONS. AND TYTON TYPE CRIMP CONNECTORS FOR TERMINAL CONNECTIONS. NO TERMINAL CONNECTORS REQUIRED AT THERMOSTAT OR SENSOR.
4. DO NOT RUN ANY OTHER WIRING IN THIS CONDUIT EXCEPT THERMOSTAT CABLE.
5. VERIFY THAT FAN UNIT FAN SPEED CONTROL WIRING IS SET TO MATCH SCHEDULE SHEET AND THAT FAN OPERATES AT COOLING SPEED ONLY.
6. DO NOT SPLICE WIRE IN RUNS FROM SENSOR TO THERMOSTAT, THERMOSTAT TO FURNACE, AND THERMOSTAT TO DISCHARGE AIR SENSOR.
7. PROVIDE CHASE NIPPLE W/PLASTIC BUSHING WHEN ATTACHING J-BOX TO EQUIPMENT.
8. PROVIDE CABLE CLAMP SO THAT CABLES CANNOT BE PULLED OUT OF J-BOX.
9. CONDUIT TO BE 1/2 " UNLESS OTHERWISE NOTED. ALL WIRING LOCATED IN WALLS AND IN MECHANICAL ROOMS TO BE ROUTED IN CONDUIT. CONDUIT FOR LOW VOLTAGE WIRING BY DIV. 26.
10. ALL CONTROLS ARE NEW UNLESS NOTED OTHERWISE. EXISTING WIRING AND CONDUIT MEETING REQUIREMENTS MAY BE REUSED, OTHERWISE PROVIDE NEW.
11. INSTALL GLOBAL OUTDOOR AIR SENSOR ON NORTH SIDE OF BUILDING OUT OF DIRECT SUNLIGHT. ONE SENSOR PER BUILDING (MAY BE CONNECTED TO ANY CONTROLLER).

CONTROL EQUIPMENT

MARK	DESCRIPTION	CAT. NO. (1)	MARK	DESCRIPTION	CAT. NO. (1)
BMG	BUILDING MANAGEMENT GATEWAY	LGW1000 (GATEWAY) WPM-8000 (WALL PLUG)	RP-1	RELAY PANEL 24X18X6W/COVER	EXISTING
UC	UNITARY CONTROLLER	CRL6438SR1000	DM-1	DAMPER MOTOR TWO POSITION	MS8105A1030
T	THERMOSTAT WALL MODULE	LCBS WALL MODULE TS120	X-2	TRANSFORMER 120,208 240V/24V 50VA	AT150F1022
	THERMOSTAT COVER PLATE ASSEMBLY	50002883-001	RIB	TWO POLE RELAY	RIBU1C (2)
S	REMOTE SENSOR	TR40	CO_2	CO_2 SENSOR	C7232B1006
DS	DUCT AIR SENSORS	C7041B2005	OAS	GLOBAL OUTSIDE AIR SENSOR	C7041F2006
G-1	THERMOSTAT GUARD	(2)	EBUS	ECHELON NETWORK CABLE	W221P-20018

(1) ALL CATALOG NUMBERS SHOWN ARE HONEYWELL UNLESS NOTED OTHERWISE.
(2) SEE SPECIFICATIONS

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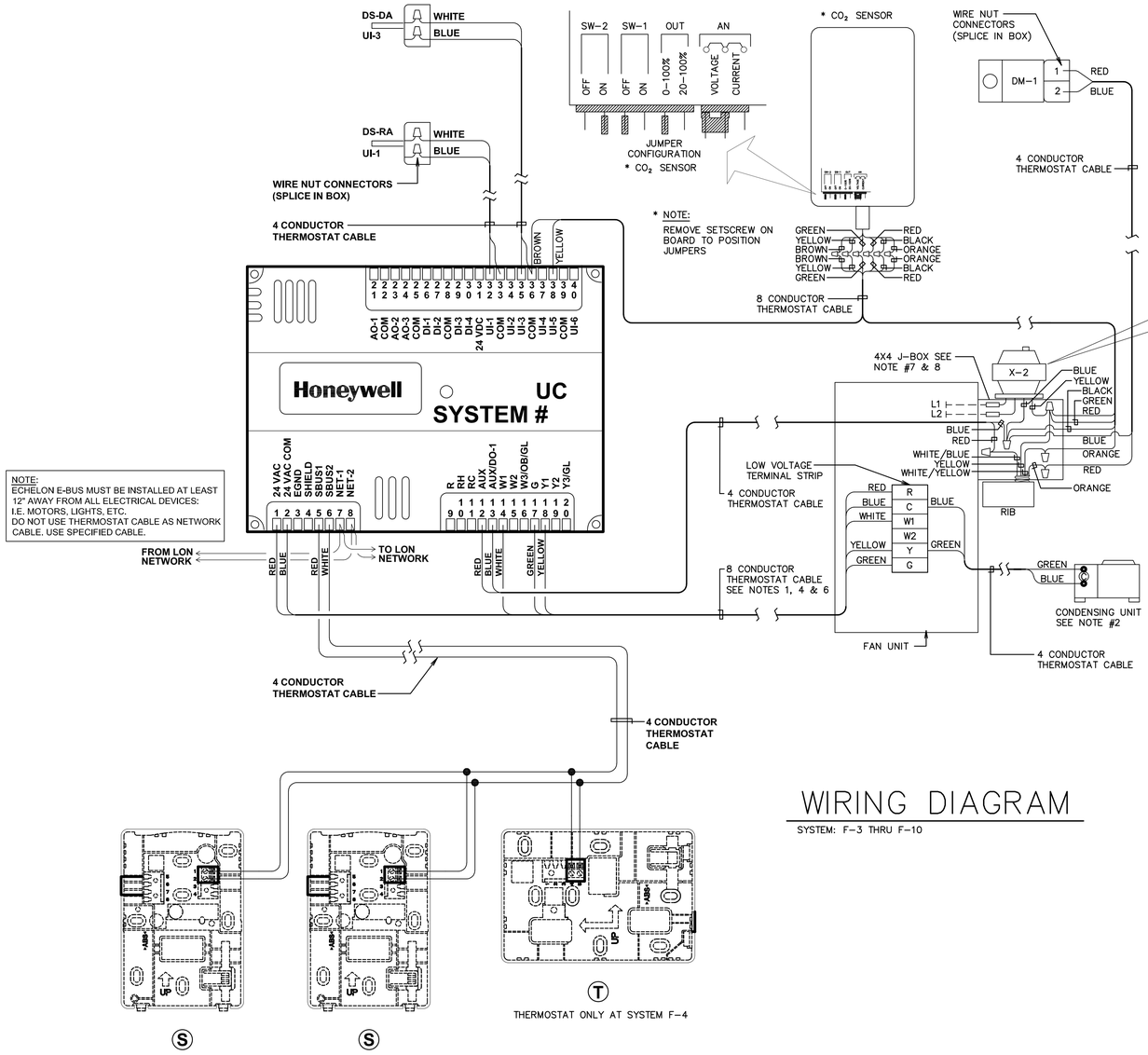
AUTOMATIC TEMPERATURE CONTROLS

ME101



WIRING DIAGRAM

SYSTEM: F-3 THRU F-10

NOTES:

1. THERMOSTAT CABLE- 4, 8 OR 12 CONDUCTOR- 18 AWG SOLID COPPER WIRE INSULATED WITH HIGH DENSITY POLYETHYLENE. CONDUCTORS PARALLEL. ENCLOSED IN BROWN PVC JACKET. (NO 22 AWG CABLE ALLOWED).
2. IF COMPRESSOR UNITS HAVE THEIR OWN POWER SUPPLY IT MAY BE NECESSARY TO ADD ADDITIONAL RELAYS IN COMPRESSOR UNIT TO PROPERLY INTERFACE CONTROLS.
3. USE WIRE NUT CONNECTORS FOR SPLICING CONDUCTORS IN SPECIFIED LOCATIONS. AND TYTON TYPE CRIMP CONNECTORS FOR TERMINAL CONNECTIONS. NO TERMINAL CONNECTORS REQUIRED AT THERMOSTAT OR SENSOR.
4. DO NOT RUN ANY OTHER WIRING IN THIS CONDUIT EXCEPT THERMOSTAT CABLE.
5. VERIFY THAT FAN UNIT FAN SPEED CONTROL WIRING IS SET TO MATCH SCHEDULE SHEET AND THAT FAN OPERATES AT COOLING SPEED ONLY.
6. DO NOT SPLICE WIRE IN RUNS FROM SENSOR TO THERMOSTAT, THERMOSTAT TO FURNACE, AND THERMOSTAT TO DISCHARGE AIR SENSOR.
7. PROVIDE CHASE NIPPLE W/PLASTIC BUSHING WHEN ATTACHING J-BOX TO EQUIPMENT.
8. PROVIDE CABLE CLAMP SO THAT CABLES CANNOT BE PULLED OUT OF J-BOX.
9. INSTALL GLOBAL OUTDOOR AIR SENSOR ON NORTH SIDE OF BUILDING OUT OF DIRECT SUNLIGHT. ONE SENSOR PER BUILDING (MAY BE CONNECTED TO ANY CONTROLLER).

GENERAL NOTE:

EXISTING CONTROLS ARE BEING UPDATED TO WORK WITH NEW AND EXISTING HVAC SYSTEMS. DIAGRAMS SHOWN ARE FOR CONTRACTORS REFERENCE AND MAY NOT SHOW EXACT CONDITIONS. CONTRACTOR SHOULD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR STARTING CONTROL WORK. EXIST. EQUIPMENT, CONDUIT, AND WIRING MAY BE RE-USED IF THEY COMPLY WITH NEW REQUIREMENTS. REMOVE ALL UNUSED EQUIPMENT, CONDUIT, AND WIRING.

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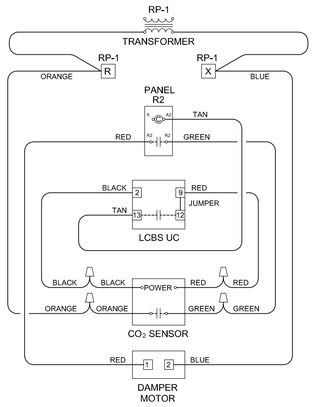
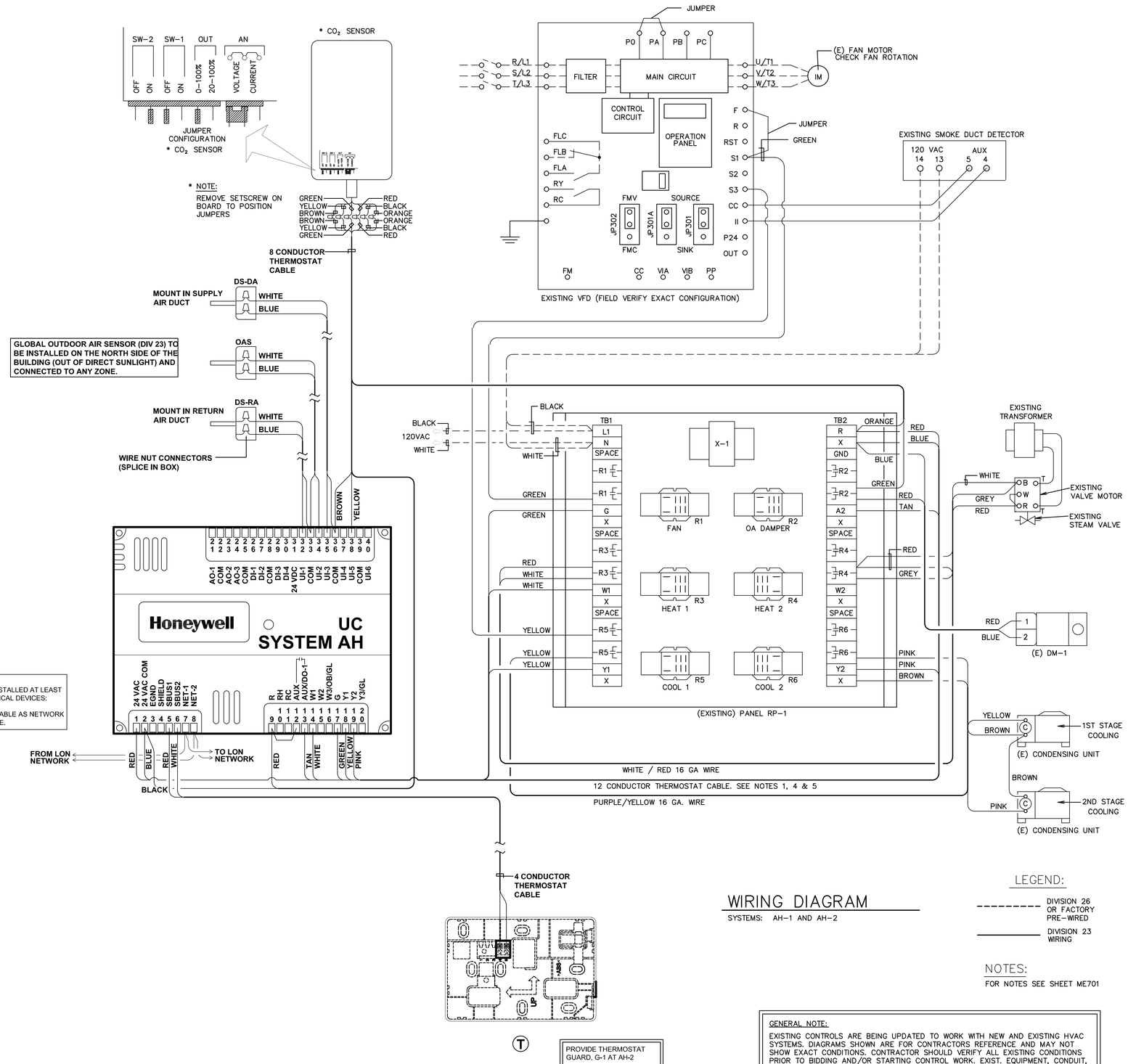
AUTOMATIC TEMPERATURE CONTROLS

ME701



WIRING SCHEMATIC



WIRING DIAGRAM

SYSTEMS: AH–1 AND AH–2

LEGEND:

- DIVISION 26 OR FACTORY PRE–WIRED
- DIVISION 23 WIRING

NOTES:

FOR NOTES SEE SHEET ME701

GENERAL NOTE:

EXISTING CONTROLS ARE BEING UPDATED TO WORK WITH NEW AND EXISTING HVAC SYSTEMS. DIAGRAMS SHOWN ARE FOR CONTRACTORS REFERENCE AND MAY NOT SHOW EXACT CONDITIONS. CONTRACTOR SHOULD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND/OR STARTING CONTROL WORK. EXIST. EQUIPMENT, CONDUIT, AND WIRING MAY BE RE–USED IF THEY COMPLY WITH NEW REQUIREMENTS. REMOVE ALL UNUSED EQUIPMENT, CONDUIT, AND WIRING.

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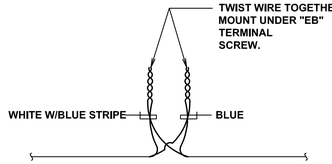
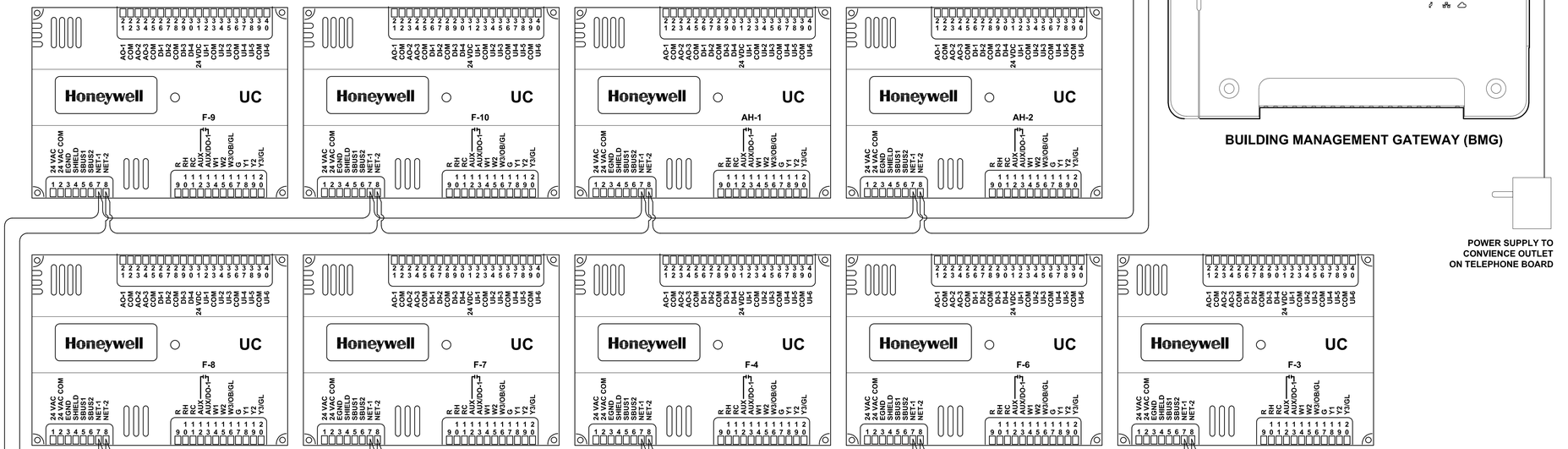
AUTOMATIC TEMPERATURE CONTROLS

ME702



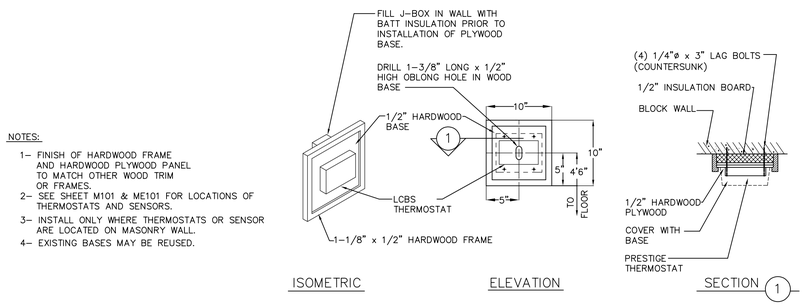
E-BUS CONNECTION DETAIL (A)

NO SCALE



BUILDING MANAGEMENT GATEWAY (BMG)

E-BUS WIRING DIAGRAM



B / ME702 PLYWOOD BASE FOR TOUCHSCREEN / SENSOR DETAIL

NO SCALE

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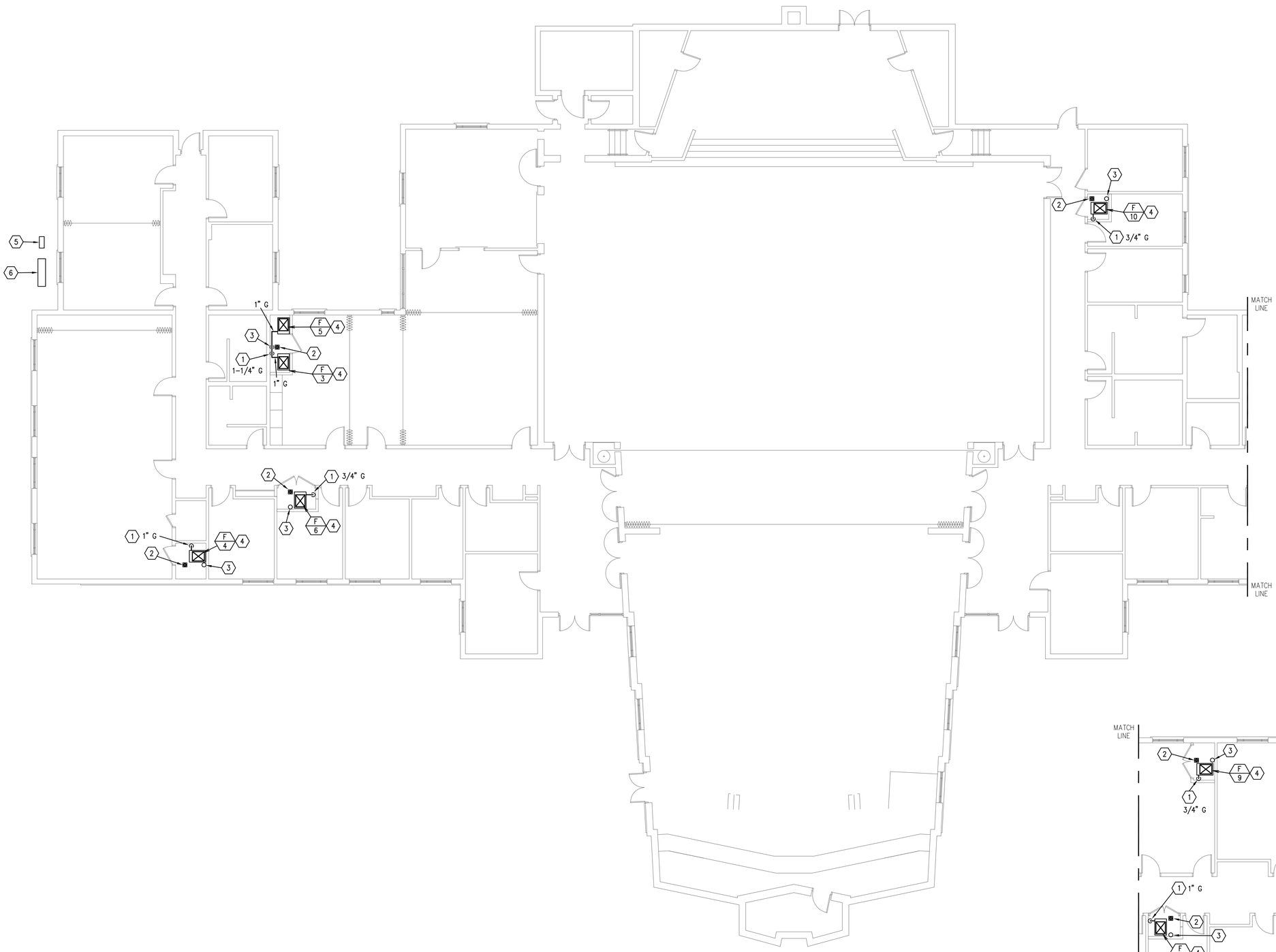
AUTOMATIC TEMPERATURE CONTROLS

ME703



N

1 P101 MAIN LEVEL PLUMBING PLAN

SCALE: 1/8" = 1'-0"

0' 8' 16'

KEYED NOTES

1. BRANCH GAS LINE UP FROM CRAWLSPACE. REFER TO DETAIL C/M601 FOR CONNECTION TO FURNACE.
2. PROVIDE CONDENSATE RECEIVER WITH DEEP SEAL TRAP FOR CONDENSATE DRAINAGE. REFER TO DETAIL A/P102. ROUTE 2" DRAIN LINE TO EXISTING WASTE LINE IN CRAWLSPACE FOR CONNECTION.
3. 2" VENT UP TO ACCESSIBLE STUDOR VENT..
4. PROVIDE CONDENSATE DRAINAGE FROM FURNACE HEAT EXCHANGER AND DX COOLING COIL. REFER TO DETAIL A/M601 .
5. NEW SEISMIC SHUT-OFF VALVE SIZED FOR NEW GAS VOLUME. REFER TO SHEET P102..
6. NEW GAS-METER SET BY LOCAL GAS SUPPLIER. REFER TO SHEET P102.

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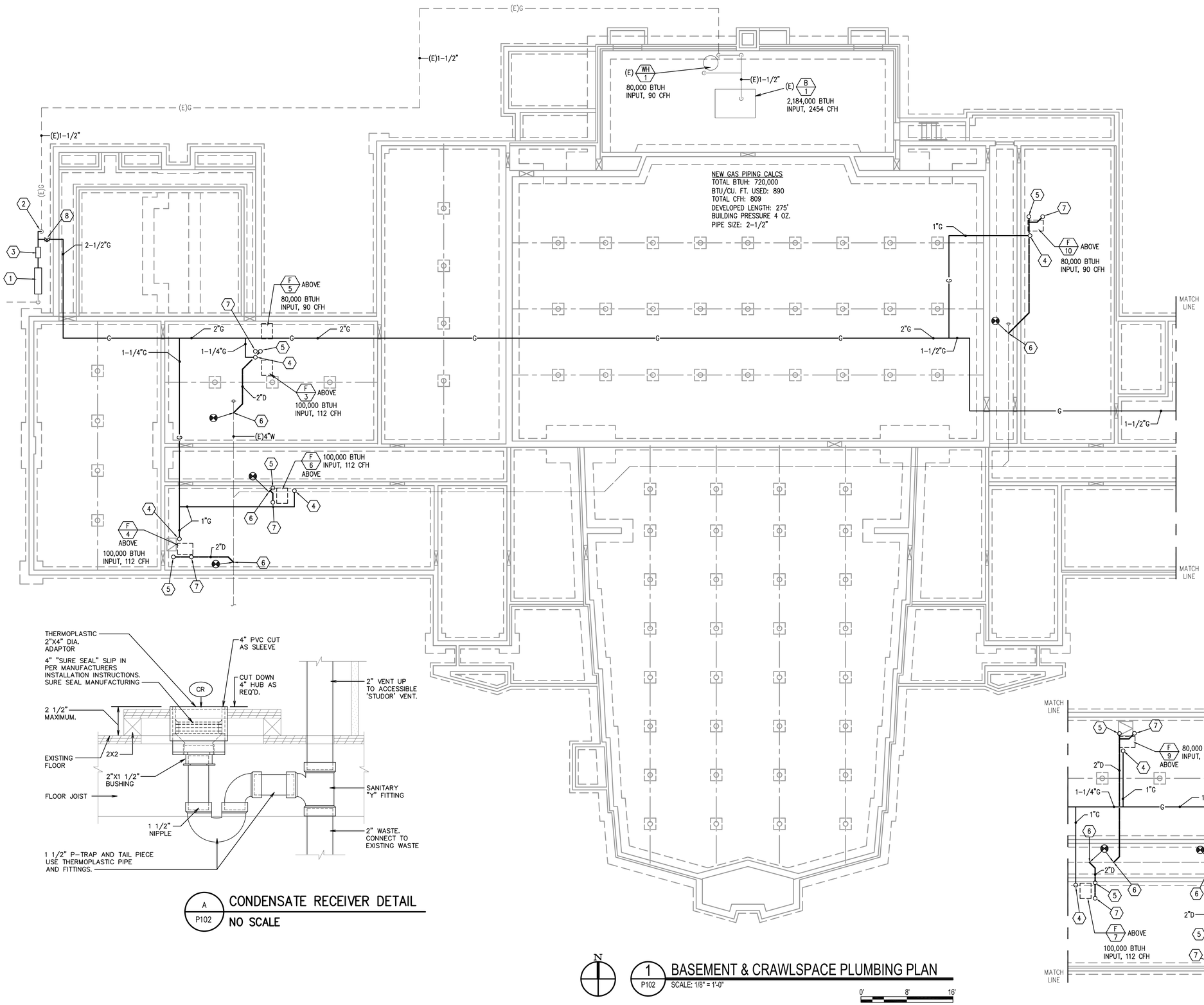
MAIN LEVEL PLUMBING PLAN

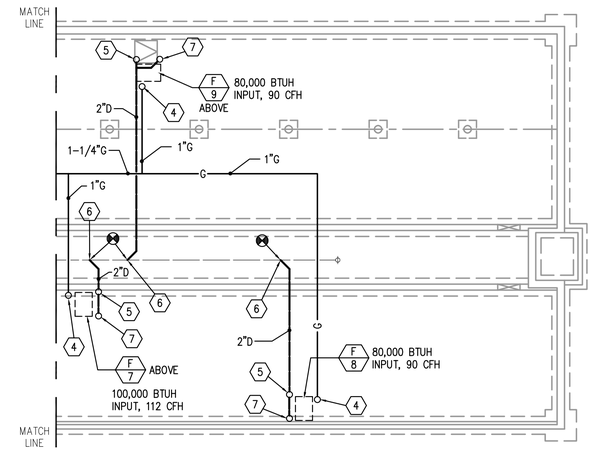
P101

KEYED NOTES

1. NEW GAS METER BY LOCAL GAS PROVIDER. 3360 CFH.
2. CONNECT NEW GAS PIPING TO EXISTING GAS PIPING ROUTING BELOW GRADE AT THIS LOCATION.
3. PROVIDE NEW SEISMIC SHUT-OFF VALVE TO MATCH NEW GAS VOLUME REQUIRED.
4. GAS BRANCH PIPING UP THROUGH FLOOR TO NEW GAS-FIRED FURNACE ABOVE.
5. 2" WASTE UP TO NEW CONDENSATE RECEIVER.
6. CONNECT NEW 2" CONDENSATE DRAIN TO EXISTING WASTE PIPING IN CRAWLSPACE AT THIS POINT. FIELD VERIFY EXACT LOCATION.
7. 2" VENT PIPING UP TO ACCESSIBLE STUDOR VENT ABOVE. SEE SHEET P101 FOR CONTINUATION.
8. INSTALL 2 PSI TO 4 OZ. PRESSURE REDUCING VALVE PRIOR TO ROUTING NEW GAS PIPING INTO CRAWLSPACE..



A P102 CONDENSATE RECEIVER DETAIL
NO SCALE



N

1 P102 BASEMENT & CRAWLSPACE PLUMBING PLAN
SCALE: 1/8" = 1'-0"
0' 8' 16'

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REVISIONS

VBFA PROJECT #:	20118
CHECKED BY:	JTA
DRAWN BY:	JTA
CURRENT/ISSUE DATE:	MAR 2022

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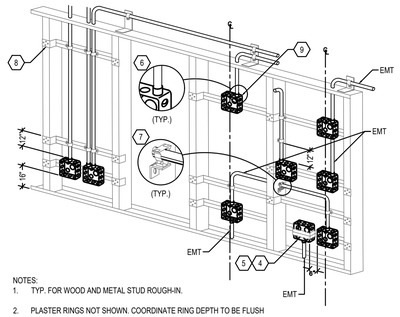
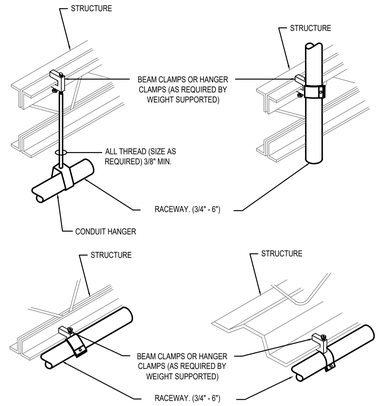
BASEMENT & CRAWLSPACE PLUMBING PLAN

P102



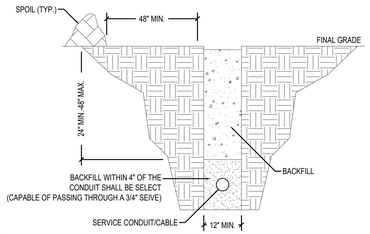
NOTES:
1. TYP. FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN. COORDINATE RING DEPTH TO BE FLUSH WITH FINISHED SURFACE, UNLESS NOTED OTHERWISE.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCH. AND MECH. DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MIN. OF 6" HORIZONTAL DISTANCE.
5. ELECTRICAL BOXES INSTALLED IN FIRE RESISTANT WALLS OR PARTITIONS SHALL COMPLY WITH IBC 714.3.2.
6. INSULATED THROAT EMT CONNECTOR.
7. CADDY FASTENER, THROUGH STUD CABLE/CONDUIT SUPPORT "FB12P".
8. ADJUSTABLE BAR HANGER.
9. TYPICAL DEVICE JUNCTION BOX.

3 / EG001 **TYPICAL ROUGH-IN DETAIL**
NO SCALE

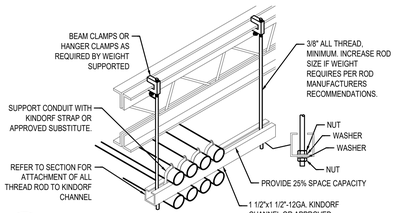


NOTES:
1. WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM.
2. DO NOT SUPPORT ANY RACEWAY LARGER THAN 1" FROM BOTTOM CORD OF STEEL TRUSSES.

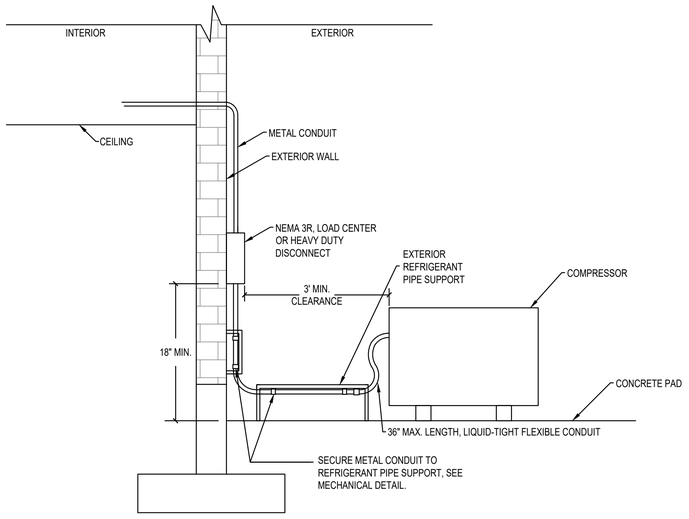
1 / EG001 **RACEWAY SUPPORT METHODS DIAGRAM**
NO SCALE



4 / EG001 **SERVICE TRENCH (POWER ONLY)**
NO SCALE



2 / EG001 **TRAPEZE SUPPORT DETAIL**
NO SCALE



5 / EG001 **EXTERIOR COMPRESSER/DISCONNECT DETAIL (TYP.)**
NO SCALE

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
(S) (D) (Q)	(S) SIMPLEX (D) DUPLEX (Q) QUADPLEX OR DOUBLE DUPLEX		
	STANDARD CONVENIENCE OUTLET	18"	
	CONVENIENCE OUTLET, GFCI	18"	
VFD	VARIABLE FREQUENCY DRIVE		
	JUNCTION BOX	AS NOTED	(12)
S TM	MANUAL SWITCH WITH THERMAL OVERLOAD		
	FUSED DISCONNECT SWITCH		(13) (14)
	MAGNETIC STARTER		(13) (14)
	MAGNETIC STARTER WITH FUSED DISCONNECT		(13) (14)
	MAGNETIC STARTER WITH BREAKER DISCONNECT		(13) (14)
	MOTOR OUTLET		
	TRANSFORMER	SEE PLANS	
	PANEL BOARD, SURFACE	6'-6" TO TOP	(15)
	PANEL BOARD, RECESSED	6'-6" TO TOP	(15)
	DUCT SMOKE DETECTOR	SEE MECH.	(9)
	MECHANICAL/PLUMBING EQUIPMENT CALLOUT		
	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.		
	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.		
	LUMINAIRE TYPE		
	DIAGRAM/DETAIL CALLOUT		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
-UG-	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	SURFACE RACEWAY/WIREMOLD		
	LOW VOLTAGE CONDUIT RUN		
	DEMOLITION		
	EXISTING		
	HOME RUN TO PANEL		
	CONDUIT STUB		
	CONDUIT BREAK/CONTINUATION		
	CONDUIT STUB DOWN		
	CONDUIT STUB UP		
	FUSE		
	GROUND/GROUND ROD		
	CIRCUIT BREAKER		

ABBREVIATIONS

A	AMPS	ENT	ELEC. NON-METAL. TUBING	NL	NIGHT LIGHT, BYPASS
AFC	AVAILABLE FAULT CURRENT	ER	EXISTING TO BE RELOCATED		LOCAL SWITCHING
AFF	ABOVE FINISHED FLOOR	EX	EXISTING TO REMAIN	PC	PLUMBING CONTRACTOR
AFG	ABOVE FINISHED GRADE	FMC	FLEXIBLE METAL CONDUIT	POC	POINT OF CONNECTION
AIC	AMPS INTERR. CAPACITY	GC	GENERAL CONTRACTOR	POS	POINT OF SALE
AWG	AMERICAN WIRE GAUGE	GEC	GRND. ELEC. COND. AT SES	R	RELOCATE
BC	BARE COPPER	GFCI	GRND. FLT. CURR. INTERR.	RM	ROOF MOUNTED
BFC	BELOW FINISHED CEILING	GND	GROUND	RMC	RIGID METALLIC CONDUIT
BFG	BELOW FINISHED GRADE	IMC	INTER. METAL CONDUIT	RNC	RIGID NON-METALLIC COND.
C	CONDUIT	IG	ISOLATED GROUND	SBJ	SYSTEM BONDING JUMPER
CND	CONDUIT	KCMIL	1000 CIRCULAR MILS (MCM)	SCA	SHORT CIRCUIT AMPERES
CO	CONDUIT ONLY	LFMC	LIQUID-TIGHT FLEX. METAL COND.	T	TRANSMITTER
CT	CURRENT TRANSDUCER			TC	TEMP. CONTROL CONTR.
CU	COPPER MATERIAL	LFNC	LIQUID-TIGHT FLEX. NON-METAL. COND.	UG	UNDERGROUND
DED	DEDICATED			UNO	UNLESS NOTED OTHERWISE
DFA	DROP FROM ABOVE	MC	MECHANICAL CONTRACTOR	VA	VOLT/AMPS
EC	ELECTRICAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS	VIF	VERIFY IN FIELD
EF	EXHAUST FAN	N1	NEMA 1	WP	WEATHERPROOF/NEMA 3R
EM	EMER./EGRESS BATTERY	N3R	NEMA 3R	XP	EXPLOSION PROOF
EMT	ELEC. METALLIC TUBING	N	NEW	XR	EXISTING TO BE REMOVED

NOTES

(1) SEE LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS.
(2) SEE LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS.
(3) WIRE LIGHT FIXTURE FROM ADJACENT J-BOX
(4) CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST
(5) DIRECTIONAL ARROWS INDICATE REQUIRED CHEVRONS.
(6) COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR ELEVATIONS
(7) USE WITH POWER PACK.
(8) "X" IN SYMBOL IS INCHES BETWEEN RECEPTACLE ALONG WIREWAY. SEE DRAWINGS.
(9) PROVIDE UL LISTED DEVICE COMPATIBLE WITH THE FIRE ALARM PANEL/SYSTEM.
(10) MATCH THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLING CIRCUIT.
(11) USE A 4" X 4" BOX WITH A MUD RING TO MATCH THE DEVICE AND INSTALLATION.
(12) PROVIDE MUD RING AND/OR BOX COVER APPROPRIATE FOR DEVICE/FIXTURE SERVED.
(13) USE HEAVY DUTY DEVICE FOR 480 VOLT.
(14) SIZE TO THE EQUIPMENT BEING CONTROLLED
(15) FIRE ALARM PANELS: FACP: FIRE ALARM CONTROL PANEL, NAC: NOTIFICATION APPLIANCE CIRCUIT PANEL, ANNUN: GRAPHIC ANNUNCIATOR PANEL, AND SES: SMOKE EVACUATION SYSTEM PANEL.
(16) LIGHT FIXTURES ARE SCALED WITHIN THE DRAWINGS BASED ON ACTUAL DIMENSIONS.

GENERAL NOTES

1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM IT'S PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE.
2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
3. NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.
5. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION, OR AFTER, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
6. ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.
7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED FROM. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BREAKERS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE TELE/DATA ROOM FROM WHICH NEW TELE/DATA OUTLETS WILL BE FED FROM. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS AS NECESSARY TO LAND ALL NEW TELE/DATA CABLING.
9. THE ELECTRICAL CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE ELECTRICAL CONTRACTOR SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
10. THE ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
11. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE AND OTHER POTENTIAL OBSTRUCTIONS.
12. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
13. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES.
14. MINIMUM SIZE CONDUIT SHALL BE 3/4". ABOVE GROUND CONDUIT SHALL BE EMT WITH STEEL SET SCREW FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.
15. FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEALTITE CONDUIT SHALL NOT BE GREATER THAN 72" INCHES.
16. WIRING DEVICES SHALL MATCH EXISTING COLOR AND FACEPLATE TYPE.
17. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION. ANY DEVICE BOXES NOT SECURED WILL BE MADE SECURE AT THE CONTRACTORS EXPENSE.
18. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.
19. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR). THE UNCOVERING AND REPLACEMENT OF ELECTRICAL WORK FOR THE INSPECTION PURPOSES WILL BE AT THE COST OF THE ELECTRICAL CONTRACTOR.
20. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120 OR 277VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12(CU,THHN)+1#12(CU,THHN)GND IN 3/4"" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10(CU,THHN) FOR 120VAC BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING.
21. CONDUCTORS SHALL BE COPPER, 600VAC RATED, TYPE THHN/THWN-2 UNLESS OTHERWISE NOTED. CONDUCTORS SIZES UP TO #10AWG SHALL BE SOLID AND #8AWG AND LARGER SHALL BE STRANDED.
22. METAL CLAD CABLING MAY BE USED BETWEEN DEVICES SUCH AS LIGHTING, RECEPTACLES, SWITCHES, ETC... UNLESS OTHERWISE REQUIRED BY THE NEC. HOME RUNS SHALL BE INSTALLED IN CONDUIT. MC CABLE SHALL NOT BE INSTALLED EXPOSED.
23. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER.
24. THE ELECTRICAL CONTRACTOR SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, UN-NEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISIS.
25. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE ELECTRICAL CONTRACTOR WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.
26. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS.
27. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITHIN WALLS/CEILINGS. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.
28. PROVIDE AN UPDATED, TYPED PANEL CIRCUIT DIRECTORY FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED, ADDED, OR REMOVED BY THE SCOPE OF THIS PROJECT. CIRCUIT DESCRIPTIONS ON THE DIRECTORY SHALL BE UNIQUE AND INDICATE THE ROOM AND EQUIPMENT/DEVICE IT IS FEEDING. DIRECTORY SHALL INCLUDE CONTRACTOR CONTACT INFORMATION AND DATE OF PROJECT COMPLETION.

Sheet List Table	
Sheet Number	Sheet Title
EG001	ELECTRICAL GENERAL
EG601	ELECTRICAL SCHEDULES
EG701	ONE-LINE DIAGRAM
ED101	MAIN LEVEL DEMOLITION PLAN
EP101	MAIN LEVEL ELECTRICAL PLAN

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VBFA PROJECT #:	20118
CHECKED BY:	LW
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SHEET CONTENTS
ELECTRICAL GENERAL

EG001

LUMINAIRE SCHEDULE

TYPE	FIXTURE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTS	LAMPS QTY	LAMPS TYPE	MOUNTING	DIMMING	VA
SL1	STRIP LIGHT 4' STRIPLIGHT. WALL MOUNTED OVER DOOR. FROSTED ACRYLIC LENS.	HE WILLIAMS	75R-4-L50-8-35-WG-75-(L40)-DIM-UNV	120		LED 3500K 80 CRI	WALL		28
		METALUX	4-SNLED-LD5-32SL-UNV-L835-CD-1-U-WG/SNF-4FT						
		DAYBRITE	FSSEZ-4-40L-835-UNV-FSSWG						
		LSI	SDL4-LED-30L-FL-UNV-DIM1-35-80CRI-549301(WIREGUARD)						
		LITHONIA	ZL1D-L48-3000LM-FST-MVOLT-35K-80CRI-WH-WGZ48						
		COLUMBIA	PS-4-35-VW-NL-E-U-MPSWG4						

Luminaire Schedule General Notes:

1. Refer to Luminaire description for fixture requirements. Manufactures model numbers may not be specific or complete. The contractor is responsible to provide complete fixtures as described on this schedule with all mounting hardware and equipment for a complete installation.
2. Refer to the architectural reflected ceiling drawings for exact fixture locations and ceiling types. Verify exact ceiling types and bring to the attention of the architect and electrical engineer any discrepancies prior to bid. Fixtures shall match architectural ceiling types.
3. Provide all fixture support and seismic bracing to secure fixture to structure, walls and ceiling systems. Refer to mounting details for additional requirements. Provide all pole bases as shown on the details.
4. Prior approval shall be required for all manufactures who are not listed on this schedule. The prior approvals shall be submitted to the electrical engineer (7) working days prior to the bid. Prior approvals received after this time cut-off shall not be reviewed or approved.
5. Submittals for prior approval shall be equivalent to the specified fixtures and reviewed and signed by the principle of the organization that is submitting for approval. Provide complete fixture submittals as listed in the specification. All information that does not apply to the fixture being submitted shall be crossed out. The electrical engineer shall be the final determination if the fixture is equivalent or not.
6. Fixtures that have been reviewed and approved as equivalent to the specified fixtures shall be listed in and addendum prior to bid. Light fixtures without prior approval are rejected and contractor shall base their bid on the approved listed fixtures. A verbal approval will not be given or approved by VBFA at any time.
7. Any additional time required to verify if submitted fixture meets all photometric requirements shall be paid by the agency requesting approval. Photometric point-by-point plans may be required from the agency submitting for approval indicating equivalency.
8. Color temperature for all lamping shall be 3500K unless noted otherwise in the schedule.
9. Verify exact fixture finishes with the architect prior to submittal.
10. Provide minimum 5 year warranty on all light fixtures.
11. LED light fixtures shall meet LM79 and LM80 standards with +50,000 hour L70 lamp life
12. Luminaire shall be listed per NEC 410.6.
13. Lumens specified for fixtures with integral LEDs are total delivered fixture lumens
14. Fixtures identified as emergency on the plans shall be provided with an emergency battery pack or remote inverter with a 1400 lumen output minimum for each emergency fixture.

EQUIPMENT SCHEDULE

TYPE	DESCRIPTION	ELECTRICAL V/PH	LOAD	FLA	WIRE SETS	WIRE QTY	WIRE SIZE	WIRE GND	COND SIZE	OVER CURRENT PROTECTION OCPD/ MOCP	TYPE	DISC SIZE/PL	FUSE SIZE	STR NEMA SIZE	REMARKS
CU-3	CONDENSING UNIT	208/1	24.3 MCA	19.4	1	2	8	10	3/4"	40	C1	-	-	-	
CU-4	CONDENSING UNIT	208/1	24.3 MCA	19.4	1	2	8	10	3/4"	40	C1	60/2	40	-	9A
CU-5	CONDENSING UNIT	208/1	23.5 MCA	18.8	1	2	8	10	3/4"	40	C1	-	-	-	
CU-6	CONDENSING UNIT	208/1	24.3 MCA	19.4	1	2	8	10	3/4"	40	C1	-	-	-	
CU-7	CONDENSING UNIT	208/1	18.1 MCA	14.5	1	2	10	10	3/4"	30	C1	30/2	30	-	9A
CU-8	CONDENSING UNIT	208/1	18.1 MCA	14.5	1	2	10	10	3/4"	30	C1	30/2	30	-	9A
CU-9	CONDENSING UNIT	208/1	23.5 MCA	18.8	1	2	8	10	3/4"	40	C1	60/2	40	-	9A
CU-10	CONDENSING UNIT	208/1	18.1 MCA	14.5	1	2	10	10	3/4"	30	C1	30/2	30	-	9A
F-3	FURNACE	120/1	1 HP	16.0	1	2	12	12	3/4"	20	C1	-	-	-	4A
F-4	FURNACE	120/1	1 HP	16.0	1	2	12	12	3/4"	20	C1	-	-	-	4A
F-5	FURNACE	120/1	3/4 HP	13.8	1	2	12	12	3/4"	20	C1	-	-	-	4A
F-6	FURNACE	120/1	1 HP	16.0	1	2	12	12	3/4"	20	C1	-	-	-	4A
F-7	FURNACE	120/1	3/4 HP	16.0	1	2	12	12	3/4"	20	C1	-	-	-	4A
F-8	FURNACE	120/1	3/4 HP	13.8	1	2	12	12	3/4"	20	C1	-	-	-	4A
F-9	FURNACE	120/1	3/4 HP	13.8	1	2	12	12	3/4"	20	C1	-	-	-	4A
F-10	FURNACE	120/1	3/4 HP	13.8	1	2	12	12	3/4"	20	C1	-	-	-	4A

ABBREVIATIONS:

V/PH = VOLTAGE/PHASE
KW = KILOWATTS
W = WATTS
HP = HORSEPOWER
KVA = KILOVOLT AMPERES
VA = VOLT AMPERES
MCA = MINIMUM CIRCUIT AMPACITY
FLA = FULL LOAD AMPERES
GND = GROUND
DISC = DISCONNECT
STR = STARTER
MOCP = MAXIMUM OCPD (LISTED BY THE MANUFACTURER)
COND = CONDUIT
OCPD = OVERCURRENT PROTECTIVE DEVICE
PL = POLE

REMARKS:

1. NEMA 1 FUSED DISCONNECT SWITCH
2. NEMA 1 NON-FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. MANUAL STARTER WITH THERMAL OVERLOAD
5. MANUAL MOTOR CONTROLLER W/OUT THERMAL OVERLOAD
6. MAGNETIC STARTER
7. MAGNETIC STR/NON-FUSED DISCONNECT COMBINATION
8. MAGNETIC STR/FUSED DISCONNECT COMBINATION
9. NEMA 3R FUSED DISCONNECT SWITCH
10. NEMA 3R NON-FUSED DISCONNECT SWITCH
11. VARIABLE FREQUENCY DRIVE
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
13. DIRECT CONNECTION
14. DUCT DETECTOR IN RETURN AIR DUCT
15. CONTROLLED WITH LIGHTS
16. LM-EB DISCONNECT W/CNTRL WIRING TO VFD

REMARKS:

A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26.
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIV 26.
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIV 26.
D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION.
E. FURNISHED AND INSTALLED UNDER DIV 26 REQUIRING CONNECTION UNDER ANOTHER DIVISION.

OCPD TYPES:

C1 = THERMAL MAGNETIC CIRCUIT BREAKER
C2 = MAGNETIC ONLY CIRCUIT BREAKER
F1 = INDUCTIVE FUSE (CLASS RK5)
F2 = NON-INDUCTIVE FUSE (CLASS RK1)

NOTES:

- THE DIVISION 26 CONTRACTOR MAY INCREASE THE CONDUIT SIZE BY ONE INCREMENTAL SIZE TO FACILITATE INSTALLATION OR TO HELP WITH MATERIAL AVAILABILITY/COST.

GENERAL NOTE: THE EC SHALL COORDINATE ALL REQUIREMENTS (IE: MOCP SIZE, UNIT THERMAL PROTECTION, ETC) WITH APPROVED MECHANICAL SHOP DRAWINGS/ SUBMITTALS AND BRING UP ANY DISCREPANCIES WITH THE ELECTRICAL ENGINEER OF RECORD IN WRITING PRIOR TO ROUGH-IN.

NAME: STAGE (NEW) **TYPE:** NQ **LOCATION:** ?
VOLTAGE: 240 / 120 **PH** 1 **WIRES** 3 **AIC** ____ **AMPS**
MOUNTING: FLUSH **FEED:**
MAINS: LUGS ONLY 100 AMPS
DIMS. 20 " W, 5.75 " D, 62 " H, 30 SPACES
SPECIAL EQUIPMENT: X GROUND BUS; ___ SUB-FEED BREAKER; ___ SUB-FEED LUGS; ___ NEMA 3R; ___ SURGE PROTECTOR

DF	CKT #	CIRCUIT DESCRIPTION	CODE	BRKR P	BRKR AMP	WIRE SIZE	VA LOAD	A	B	VA LOAD	WIRE SIZE	BRKR AMP	BRKR P	CODE	CIRCUIT DESCRIPTION	CKT #	DF
	1	EXISTING		1	20	12		0			12	20	1		EXISTING	2	
	3	EXISTING		1	20	12			0		12	20	1		EXISTING	4	
	5	EXISTING		1	20	12		0			12	20	1		EXISTING	6	
	7	EXISTING		1	20	12			0		12	20	1		EXISTING	8	
	9	EXISTING		1	20	12		0			12	20	1		EXISTING	10	
	11	EXISTING		1	20	12			0		12	20	1		EXISTING	12	
	13	EXISTING		1	20	12		0			12	20	1		EXISTING	14	
	15	EXISTING		1	20	12			0		12	20	1		EXISTING	16	
	17	EXISTING		1	20	12		0			12	20	1		EXISTING	18	
	19	EXISTING		1	20	12			0		12	20	1		EXISTING	20	
	21	EXISTING		1	20	12		0			12	20	1		EXISTING	22	
	23	EXISTING		1	20	12			0		12	20	1		EXISTING	24	
	25	EXISTING		1	20	12		0							SPACE	26	
	27	SPACE							0						SPACE	28	
	29	SPACE						0							SPACE	30	

DIVERSITY FACTORS (DF): C=CONTINUOUS; N=NON-CONTINUOUS; R=RECEPTACLES; K=KITCHEN EQUIPMENT; M=MOTOR; L=LARGEST MOTOR; O=OTHER
CONNECTED VA 0 0 0.0 KVA
CONNECTED AMPS 0 0 0 A
DIVERSIFIED VA 0 KVA
DIVERSIFIED AMPS 0 A
CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = GFEP BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

NOTES:
AIC RATING TO MATCH EXISTING

NAME: B (NEW) **TYPE:** NQ **LOCATION:** ?
VOLTAGE: 240 / 120 **PH** 1 **WIRES** 3 **AIC** ____ **AMPS**
MOUNTING: FLUSH **FEED:**
MAINS: LUGS ONLY 100 AMPS
DIMS. 20 " W, 5.75 " D, 62 " H, 30 SPACES
SPECIAL EQUIPMENT: X GROUND BUS; ___ SUB-FEED BREAKER; ___ SUB-FEED LUGS; ___ NEMA 3R; ___ SURGE PROTECTOR

DF	CKT #	CIRCUIT DESCRIPTION	CODE	BRKR P	BRKR AMP	WIRE SIZE	VA LOAD	A	B	VA LOAD	WIRE SIZE	BRKR AMP	BRKR P	CODE	CIRCUIT DESCRIPTION	CKT #	DF
	1	EXISTING		1	20	12		0			12	20	1		EXISTING	2	
	3	EXISTING		1	20	12			0		12	20	1		EXISTING	4	
	5	EXISTING		1	20	12		0			12	20	1		EXISTING	6	
	7	EXISTING		1	20	12			0		12	20	1		EXISTING	8	
	9	EXISTING		1	20	12		0			12	20	1		EXISTING	10	
	11	EXISTING		1	20	12			0		12	20	1		EXISTING	12	
	13	EXISTING		1	20	12		0			12	20	1		EXISTING	14	
	15	EXISTING		1	20	12			0		12	20	1		EXISTING	16	
	17	EXISTING		1	20	12	1920		1920	12	20	1		F-6	18	M	
	19	EXISTING		1	15	12		1920		1920	12	20	1		F-4	20	M
	21	EXISTING		1	15	12	1656		1656	12	20	1		F-5	22	M	
	23	SPARE		1	20				1920	1920	12	20	1		F-3	24	M
	25	SPACE						0							SPACE	26	
	27	SPACE							0						SPACE	28	
	29	SPACE						0							SPACE	30	

DIVERSITY FACTORS (DF): C=CONTINUOUS; N=NON-CONTINUOUS; R=RECEPTACLES; K=KITCHEN EQUIPMENT; M=MOTOR; L=LARGEST MOTOR; O=OTHER
CONNECTED VA 3576 3840 7.4 KVA
CONNECTED AMPS 30 32 30.9 A
DIVERSIFIED VA 7 KVA
DIVERSIFIED AMPS 30.9 A
CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = GFEP BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

NOTES:
AIC RATING TO MATCH EXISTING

NAME: A (NEW) **TYPE:** NQ **LOCATION:** ?
VOLTAGE: 240 / 120 **PH** 1 **WIRES** 3 **AIC** ____ **AMPS**
MOUNTING: FLUSH **FEED:**
MAINS: LUGS ONLY 100 AMPS
DIMS. 20 " W, 5.75 " D, 62 " H, 40 SPACES
SPECIAL EQUIPMENT: X GROUND BUS; ___ SUB-FEED BREAKER; ___ SUB-FEED LUGS; ___ NEMA 3R; ___ SURGE PROTECTOR

DF	CKT #	CIRCUIT DESCRIPTION	CODE	BRKR P	BRKR AMP	WIRE SIZE	VA LOAD	A	B	VA LOAD	WIRE SIZE	BRKR AMP	BRKR P	CODE	CIRCUIT DESCRIPTION	CKT #	DF
	1	EXISTING		1	20	12		0			12	20	1		EXISTING	2	
	3	EXISTING		1	20	12			0		12	20	1		EXISTING	4	
	5	EXISTING		1	20	12		0			12	20	1		EXISTING	6	
	7	EXISTING		1	20	12			0		12	20	1		EXISTING	8	
	9	EXISTING		1	20	12		0			12	20	1		EXISTING	10	
	11	EXISTING		1	20	12			0		12	20	1		EXISTING	12	
	13	EXISTING		1	20	12		0			12	20	1		EXISTING	14	
	15	EXISTING		1	20	12			0		12	20	1		EXISTING	16	
	17	EXISTING		1	20	12		0			12	20	1		EXISTING	18	
	19	EXISTING		1	20	12			0		12	20	1		EXISTING	20	
	21	EXISTING		1	20	12		0			12	20	1		EXISTING	22	
	23	EXISTING		1	20	12			0		12	20	1		EXISTING	24	
M	25	F-9		1	20	12	1656	3576		1920	12	20	1		F-7	26	M
M	27	F-8		1	20	12	1920		3840	1920	12	20	1		F-10	28	M
	29	SPARE		1	20			0			12	20	1		EXISITNG	30	
	31	SPARE		1	20				0			20	1		SPARE	32	
	33	SPARE		1	20			0				20	1		SPARE	34	
	35	SPARE		1	20				0			20	1		SPARE	36	
	37	SPARE		1	20			0				20	1		SPARE	38	
	39	SPARE		1	20				0			20	1		SPARE	40	

DIVERSITY FACTORS (DF): C=CONTINUOUS; N=NON-CONTINUOUS; R=RECEPTACLES; K=KITCHEN EQUIPMENT; M=MOTOR; L=LARGEST MOTOR; O=OTHER
CONNECTED VA 3576 3840 7.4 KVA
CONNECTED AMPS 30 32 30.9 A
DIVERSIFIED VA 7 KVA
DIVERSIFIED AMPS 30.9 A
CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = GFEP BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

NOTES:
AIC RATING TO MATCH EXISTING

NAME: D (NEW) **TYPE:** NQ **LOCATION:** ?
VOLTAGE: 240 / 120 **PH** 1 **WIRES** 3 **AIC** ____ **AMPS**
MOUNTING: FLUSH **FEED:**
MAINS: LUGS ONLY 50 AMPS
DIMS. 20 " W, 5.75 " D, 38 " H, 16 SPACES
SPECIAL EQUIPMENT: X GROUND BUS; ___ SUB-FEED BREAKER; ___ SUB-FEED LUGS; ___ NEMA 3R; ___ SURGE PROTECTOR

DF	CKT #	CIRCUIT DESCRIPTION	CODE	BRKR P	BRKR AMP	WIRE SIZE	VA LOAD	A	B	VA LOAD	WIRE SIZE	BRKR AMP	BRKR P	CODE	CIRCUIT DESCRIPTION	CKT #	DF
	1	EXISTING		1	20	12		0			12	20	1		EXISTING	2	
	3	EXISTING		1	20	12			0		12	20	1		EXISTING	4	
	5	EXISTING		1	20	12		0			12	20	1		EXISTING	6	
	7	EXISTING		1	20	12			0		12	20	1		EXISTING	8	
	9	SPARE		1	20			0				20	1		SPARE	10	
	11	SPARE		1	20				0			20	1		SPARE	12	
	13	SPARE		1	20			0				20	1		SPARE	14	
	15	SPARE		1	20				0			20	1		SPARE	16	

DIVERSITY FACTORS (DF): C=CONTINUOUS; N=NON-CONTINUOUS; R=RECEPTACLES; K=KITCHEN EQUIPMENT; M=MOTOR; L=LARGEST MOTOR; O=OTHER
CONNECTED VA 0 0 0.0 KVA
CONNECTED AMPS 0 0 0 A
DIVERSIFIED VA 0 KVA
DIVERSIFIED AMPS 0 A
CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = GFEP BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

NOTES:
AIC RATING TO MATCH EXISTING

NAME: BR(EX) **TYPE:** NQ **LOCATION:** ?
VOLTAGE: 208 / 120 **PH** 3 **WIRES** 4 **AIC** ____ **AMPS**
MOUNTING: FLUSH **FEED:** BOTTOM
MAINS: BREAKER 225 AMPS
DIMS. 20 " W, 5.75 " D, 68 " H, 42 SPACES
SPECIAL EQUIPMENT: X GROUND BUS; ___ SUB-FEED BREAKER; ___ SUB-FEED LUGS; ___ NEMA 3R; ___ SURGE PROTECTOR

DF	CKT #	CIRCUIT DESCRIPTION	CODE	BRKR P	BRKR AMP	WIRE SIZE	VA LOAD	PHASE VA A	B	C	VA LOAD	WIRE SIZE	BRKR AMP	BRKR P	CODE	CIRCUIT DESCRIPTION	CKT #	DF
	1	EXISTING LOAD		1				0						1		EXISTING LOAD	2	
	3	EXISTING LOAD		1					0					1		EXISTING LOAD	4	
	5	EXISTING LOAD		1						0				1		EXISTING LOAD	6	
	7	EXISTING LOAD		1				0						1		EXISTING LOAD	8	
	9	EXISTING LOAD		1					0					1		EXISTING LOAD	10	
	11	EXISTING LOAD		1						0				1		EXISTING LOAD	12	
	13	EXISTING LOAD		1				0						1		EXISTING LOAD	14	
	15	EXISTING LOAD		1					0					1		EXISTING LOAD	16	
	17	EXISTING LOAD		2						0				1		EXISTING LOAD	18	
	19		-	-	-	-		0				-	-	-	-		20	
	21	EXISTING LOAD		2					0					2		EXISTING LOAD	22	
	23		-	-	-	-				0		-	-	-	-		24	
	25	EXISTING LOAD		2				0						2		EXISTING LOAD	26	
	27		-	-	-	-			0			-	-	-	-		28	
	29	EXISTING LOAD		1						0				1		EXISTING LOAD	30	
	31	EXISTING LOAD		1				0						1		EXISTING LOAD	32	
M	33	CU-8		2	30	10	1505		1505							SPACE	34	C
M	35		-	-	-	-	1505			1505						SPACE	36	C
	37	CU-7		2	30	10	1505	3460			1955	8	40	2		CU-9	38	M
	39		-	-	-	-	1505		3460		1955	-	-	-	-		40	M
	41	SPACE								0						SPACE	42	

DIVERSITY FACTORS (DF): C=CONTINUOUS; N=NON-CONTINUOUS; R=RECEPTACLES; K=KITCHEN EQUIPMENT; M=MOTOR; L=LARGEST MOTOR; O=OTHER
CONNECTED VA 3460 4965 1505 9.9 KVA
CONNECTED AMPS 29 41 13 27.563 A
DIVERSIFIED VA 7 KVA
DIVERSIFIED AMPS 19.208 A
CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = GFEP BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

NOTES:

NAME: LC1(NEW) **TYPE:** NQ **LOCATION:** ?
VOLTAGE: 240 / 120 **PH** 1 **WIRES** 3 **AIC** ____ **AMPS**
MOUNTING: SURFACE **FEED:** BOTTOM
MAINS: LUGS ONLY 70 AMPS
DIMS. 20 " W, 5.75 " D, 38 " H, 12 SPACES
SPECIAL EQUIPMENT: X GROUND BUS; ___ SUB-FEED BREAKER; ___ SUB-FEED LUGS; X NEMA 3R; ___ SURGE PROTECTOR

DF	CKT #	CIRCUIT DESCRIPTION	CODE	BRKR P	BRKR AMP	WIRE SIZE	VA LOAD	A	B	VA LOAD	WIRE SIZE	BRKR AMP	BRKR P	CODE	CIRCUIT DESCRIPTION	CKT #	DF
M	1	CU-5		2	40	8	1955	3976		2021	8	40	2		CU-3	2	
M	3		-	-	-	-	1955		3976	2021	-	-	-	-		4	
M	5	CU-6		2	40	8	2021	2021							SPACE	6	
M	7		-	-	-	-	2021		2021						SPACE	8	
M	9	SPACE						0							SPACE	10	
M	11	SPACE							0						SPACE	12	

DIVERSITY FACTORS (DF): C=CONTINUOUS; N=NON-CONTINUOUS; R=RECEPTACLES; K=KITCHEN EQUIPMENT; M=MOTOR; L=LARGEST MOTOR; O=OTHER
CONNECTED VA 5997 5997 16.0 KVA
CONNECTED AMPS 50 50 66.542 A
DIVERSIFIED VA 8 KVA
DIVERSIFIED AMPS 33.133 A
CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = GFEP BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

NOTES:

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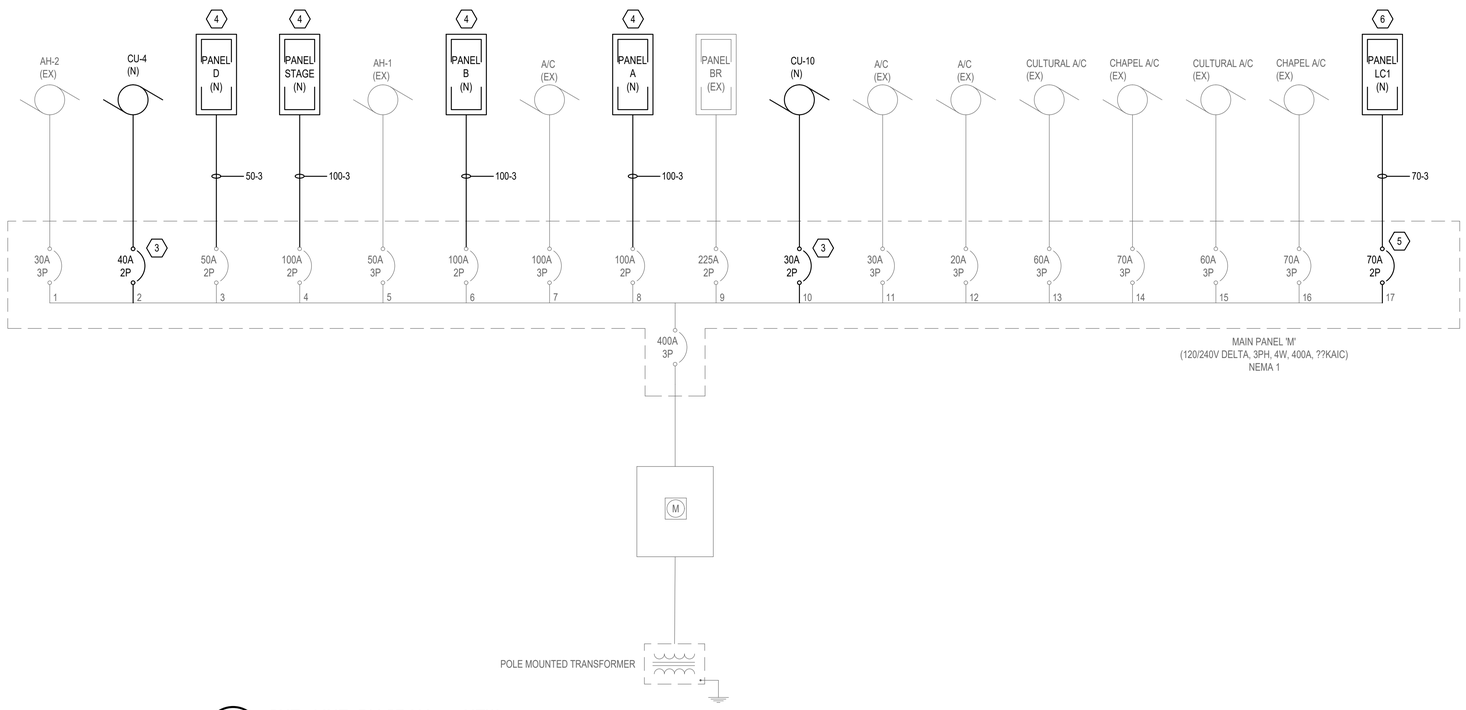
REVISIONS

VBFA PROJECT #: 20118
CHECKED BY: LW
DRAWN BY: EW
CURRENT/ISSUE DATE: MAR 2022

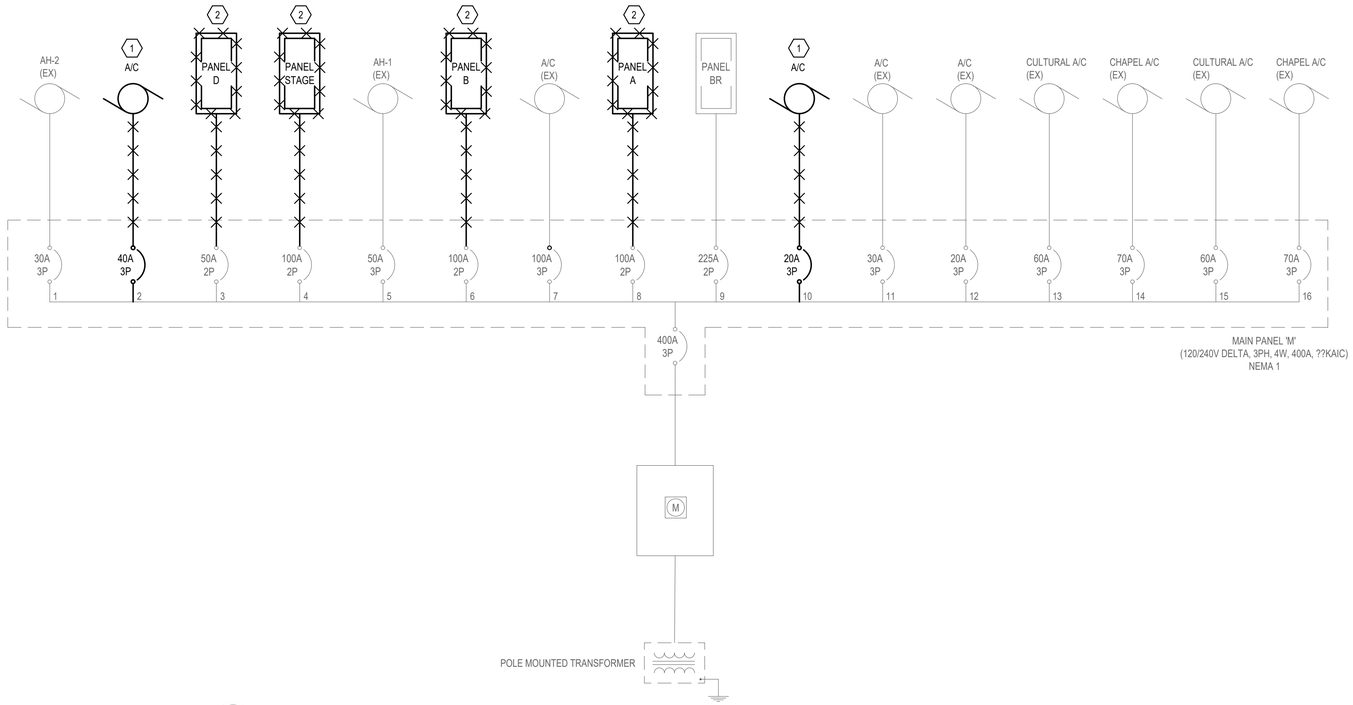
SHEET CONTENTS
ELECTRICAL SCHEDULES

EG601



2 EG701 ONE-LINE DIAGRAM - NEW

NO SCALE



1 EG701 ONE-LINE DIAGRAM - DEMO

NO SCALE

KEYED NOTES

1. EXISTING EQUIPMENT TO BE REPLACED. DISCONNECT POWER TO EXISTING EQUIPMENT AND REMOVE CONDUCTORS BACK TO SOURCE.
2. EXISTING PANEL TO BE REPLACED. DEMOLISH EXISTING PANEL AND REMOVE FEEDERS BACK TO SOURCE. PRESERVE AND PROTECT EXISTING BRANCH CIRCUITS TO BE RE-FED FROM NEW PANEL.
3. PROVIDE NEW BREAKER FOR NEW MECHANICAL EQUIPMENT. BREAKER SHALL MATCH EXISTING A.I.C. RATING. REFER TO EQUIPMENT SCHEDULE FOR BREAKER AND FEEDER SIZE.
4. FURNISH AND INSTALL NEW PANEL TO REPLACE EXISTING. REFER TO PANEL SCHEDULE. RUN NEW FEEDERS. USE EXISTING CONDUIT WHERE POSSIBLE. PROVIDE NEW BREAKERS IN NEW PANEL TO MATCH EXISTING BREAKER SIZES AND POLES TO FEED EXISTING BRANCH CIRCUITS. A.I.C. RATING TO MATCH EXISTING. MODIFY WALL FRAMING AND PATCH AND REPAIR WALL TO MATCH EXISTING. TERMINATE ALL EXISTING CIRCUITS ONTO NEW PANEL.
5. PROVIDE NEW BREAKER FOR LOAD CENTER. BREAKER SHALL MATCH EXISTING A.I.C. RATING.
6. FURNISH AND INSTALL NEW LOAD CENTER. REFER TO PANEL SCHEDULE.

CONDUCTOR & CONDUIT SCHEDULE - COPPER

TYPE	CONDUCTOR					CONDUIT	KEYED
	AMP	SETS	QTY	SIZE	EQ GND	SIZE	NOTES
50-3	55	1	3	6	10	1"	1
70-3	70	1	3	4	8	1-1/4"	1
100-3	95	1	3	2	8	1-1/4"	1

GENERAL NOTES:

- THHN/THWN/THWN-2 FOR 400 KCMIL AND BELOW, XHHW/XHHW-2 FOR 500 KCMIL AND ABOVE.
- GROUND CONDUCTOR SHALL BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
-

KEYED NOTES:

1. REFER TO LATEST ADOPTED VERSION OF THE NEC ARTICLE 310.15 FOR 75°C RATED COPPER AND 110.14(C)(1)(a) FOR 60°C COPPER.
2. 200% NEUTRAL (OR 2 NEUTRAL CONDUCTORS).
3. AMPACITY DERATED BY 80% DUE TO (4-6) CURRENT CARRYING CONDUCTORS

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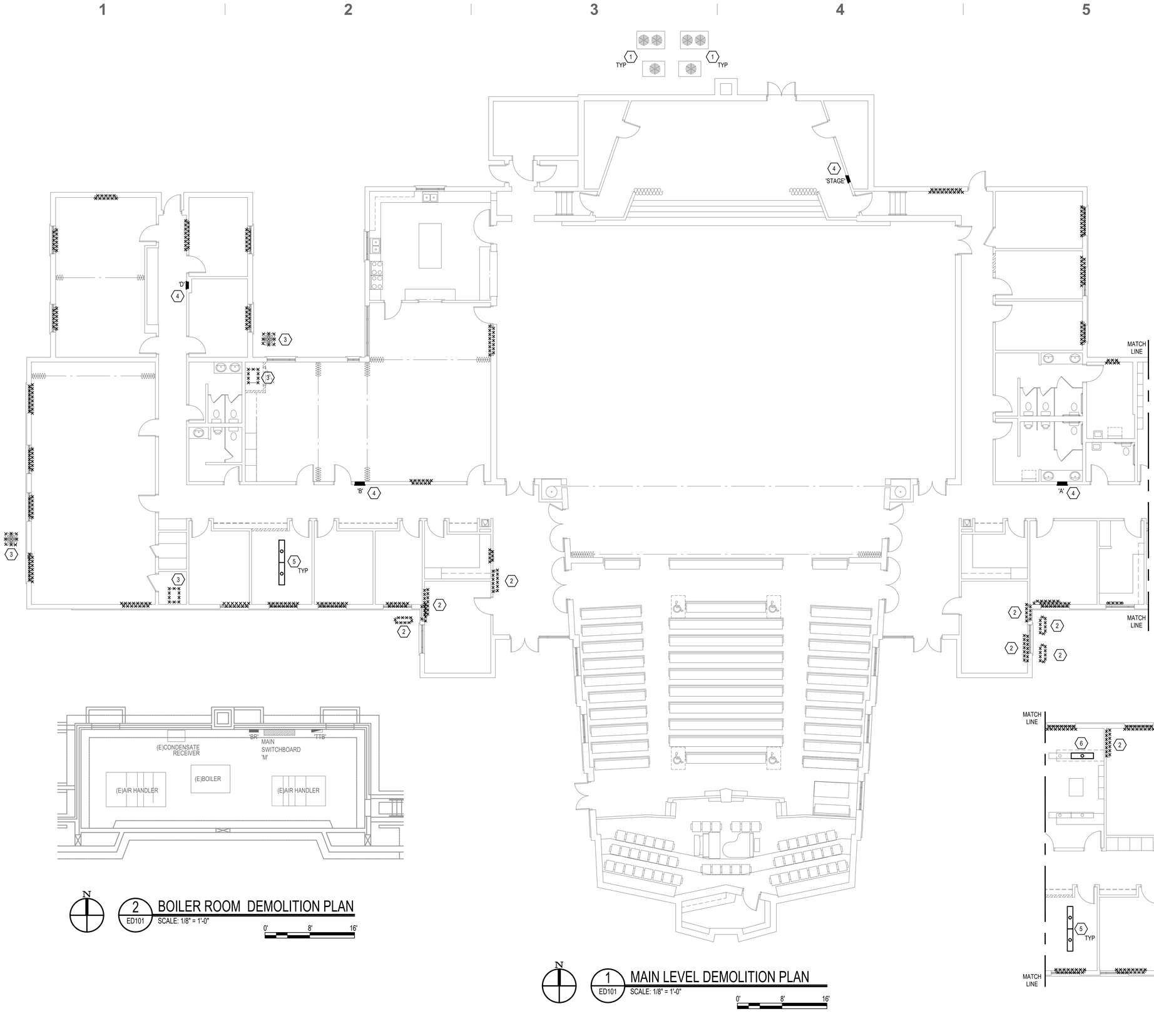
SHEET CONTENTS
ONE-LINE DIAGRAM

EG701



N

2 ED101 BOILER ROOM DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

0' 8' 16'

N

1 ED101 MAIN LEVEL DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

0' 8' 16'

KEYED NOTES

1. EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT AND MAINTAIN CIRCUIT INTEGRITY.
2. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. REMOVE CONDUIT, WIRE, AND ASSOCIATED DISCONNECTS BACK TO NEAREST REMAINING DEVICE/EQUIPMENT. MAINTAIN CIRCUIT INTEGRITY. IF NO DEVICES OR EQUIPMENT REMAIN, REMOVE CONDUIT AND WIRE BACK TO SOURCE AND MARK BREAKER AS SPARE. PROVIDE NEW UPDATED TYPED PANEL SCHEDULE INDEX. IF CONDUIT IS INACCESSIBLE, CUT CONDUIT FLUSH WITH STRUCTURAL SURFACE.
3. DISCONNECT POWER TO EXISTING MECHANICAL EQUIPMENT TO BE REPLACED. REFER TO POWER PLAN FOR NEW EQUIPMENT. MAINTAIN EXISTING CIRCUIT INTEGRITY FOR NEW EQUIPMENT.
4. EXISTING PANEL AND FEEDERS TO BE REPLACED WITH NEW. DEMOLISH EXISTING PANEL AND PROTECT AND PRESERVE BRANCH CIRCUIT INTEGRITY.
5. EXISTING LIGHT TO BE RELOCATED. REFER TO EP101 FOR NEW LOCATION. EXTEND CIRCUIT AS REQUIRED.
6. EXISTING LIGHT TO BE REMOVED. REMOVE CONDUIT AND WIRE BACK TO NEAREST REMAINING DEVICE. MAINTAIN CIRCUIT INTEGRITY OF EXISTING LIGHTING TO REMAIN.

GENERAL NOTES

A. EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.

B. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.

C. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.

D. ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.

E. DEVICES SHOWN ON DEMOLITION SHEETS ARE GATHERED FROM AS-BUILT DRAWINGS AND FIELD INVESTIGATION. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT.

F. CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.

G. CAP AND LABEL ALL EMPTY CONDUIT TO REMAIN.

H. DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN.

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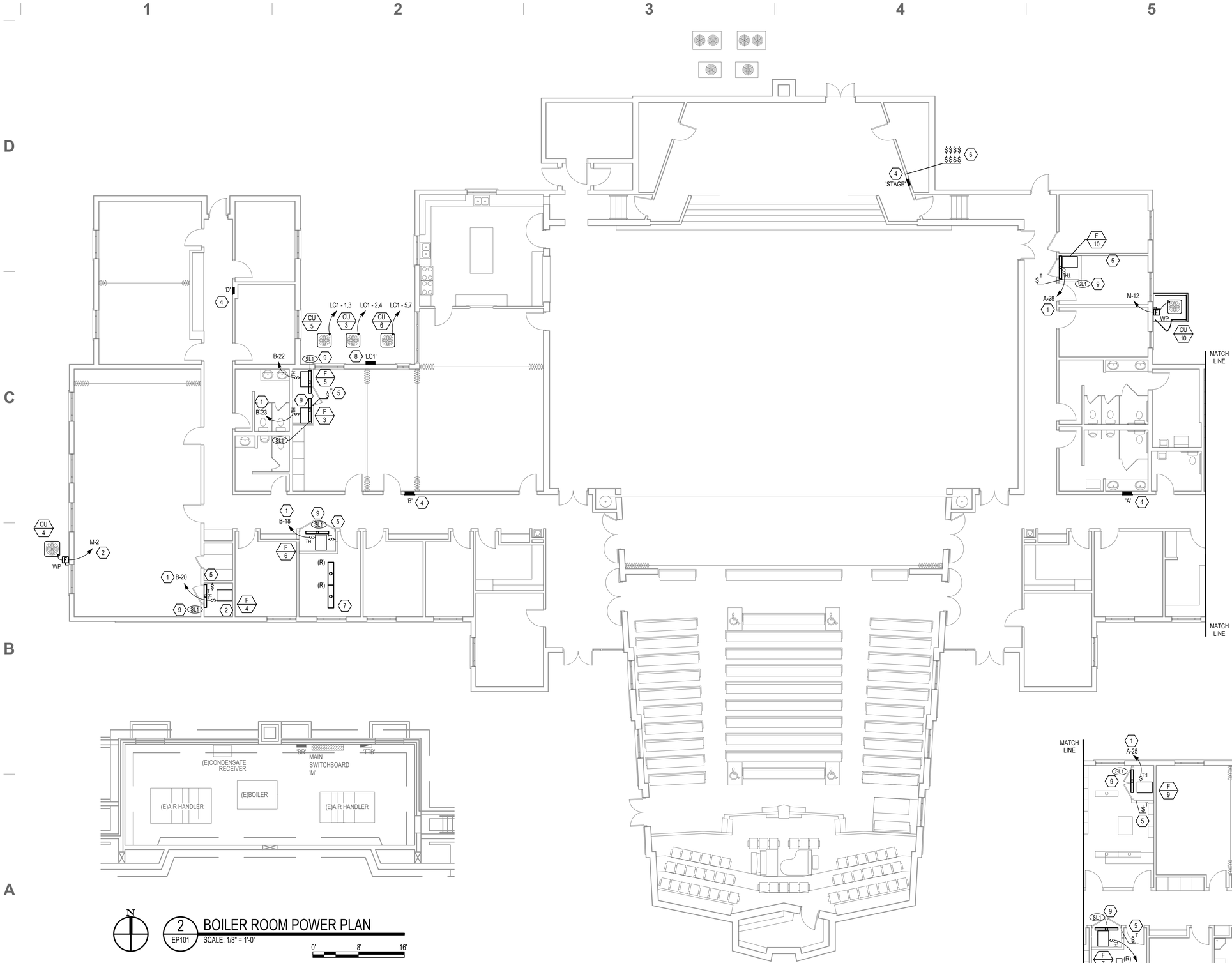
SHEET CONTENTS
MAIN LEVEL DEMOLITION PLAN

ED101



KEYED NOTES

1. TIE MECHANICAL EQUIPMENT TO A DEDICATED BREAKER IN PANEL INDICATED. SEE MECHANICAL EQUIPMENT SCHEDULE FOR BREAKER AND WIRE SIZE. PROVIDE NEW BREAKER AS NEEDED. BREAKER SHALL MATCH EXISTING A.I.C. RATING.
2. EXISTING MECHANICAL EQUIPMENT TO BE REPLACED. DISCONNECT EXISTING EQUIPMENT AND RECONNECT NEW EQUIPMENT. MAINTAIN EXISTING CIRCUIT INTEGRITY.
3. PROVIDE CONVENIENCE OUTLET WITHIN 25' OF EQUIPMENT PER CODE AS REQUIRED. TIE TO NEAREST RECEPTACLE CIRCUIT WITH AVAILABLE CAPACITY IN PAVILION PANEL.
4. PROVIDE NEW PANELS TO REPLACE EXISTING. PROVIDE NEW BREAKERS IN NEW PANEL OF SAME QUANTITY AND SIZE AS IN EXISTING PANEL TO RE-FEED EXISTING BRANCH CIRCUITS. AIC RATING OF NEW PANEL TO MATCH EXISTING PANEL. FIELD VERIFY EXISTING BREAKER SIZES AND QUANTITIES IN EXISTING PANEL.
5. FURNISH AND INSTALL A 12 HOUR MAX TIMER SWITCH WITH BLINK AND BEEP WARNING EQUAL TO SENSOR SWITCH #PTS720. SET INITIAL TIME TO 2 HR. SENSOR SHALL NOT REQUIRE A MINIMUM LOAD REQUIREMENT.
6. REMOVE PANEL HOUSING LIGHT SWITCHES AND INSTALL 4 GANG J-BOXES TO HOUSE SWITCH BANK. PROVIDE NEW SWITCHES AND FACEPLATE TO REPLACE EXISTING. PATCH AND REPAIR WALL TO MATCH EXISTING.
7. RELOCATE EXISTING LIGHTS TO NEW LOCATION SHOWN. EXTEND CIRCUIT AS REQUIRED.
8. FURNISH AND INSTALL A NEW 70A, 1 PHASE LOAD CENTER. RUN 3#4, 1#8, 1.25"C FROM A NEW 70A 2 POLE BREAKER IN PANEL 'BR'. NEW BREAKER SHALL MATCH EXISTING AIC RATING.
9. TIE LIGHT TO NEAREST LIGHTING CIRCUIT WITH AVAILABLE CAPACITY.

GENERAL NOTES

A. EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.

B. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.

C. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.

D. ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.

E. CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.

F. CAP AND LABEL ALL EMPTY CONDUIT TO REMAIN.

G. PROVIDE UPDATED TYPED PANEL SCHEDULES FOR PANELS AFFECTED BY THE SCOPE OF THIS WORK.

H. ALL NEW BREAKERS SHALL MATCH EXISTING AIC RATINGS OF ITS CORRESPONDING PANEL WHERE IT IS INSTALLED.

I. DISCONNECTS TO BE HEAVY DUTY AND SHALL BE LOCATED TO MEET NEC CLEARANCES. COORDINATE WITH EQUIPMENT LOCATIONS PRIOR TO ROUGH-IN.

J. FURNISH AND INSTALL A CONVENIENCE OUTLET WITHIN 25' OF NEW EQUIPMENT IF NONE EXIST. TIE TO THE NEAREST 120V, 20A CIRCUIT THAT IS NOT DEDICATED FOR EQUIPMENT.

K. CIRCUIT NEW LIGHTS TO EXISTING LIGHTING CIRCUIT IN THE SPACE.

L. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS, ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.

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REVISIONS

VBFA PROJECT #:	20118
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SHEET CONTENTS
MAIN LEVEL ELECTRICAL PLAN

EP101