ADDENDUM

Project: Hobble Creek 1, 2, 3 Chapel HVAC | Project No.: 505-0871-18020101 | Addendum No.: Two

Project Address: 555 South Averett Avenue, Springville, UT | Date: February 5, 2018

Owner: Corporation of the Presiding Bishop of The Church of Jesus Christ of Latter-day Saints, a Utah corporation sole

From (Architect): John Alexander - Van Boerum & Frank Associates

Instructions to Prospective Bidders:

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents and/or prior Addenda as noted below. All conditions, requirements, materials and workmanship are to be as described in the Contract Documents unless specifically stated otherwise. This Addendum consists of two page(s) and the attached drawing(s), Sheet(s) EG601, EP101, & EP102, dated Feb. 5, 2018

1. Changes to prior Addenda:
   a. None
2. Changes to Bidding Requirements:
   a. None
3. Changes to Conditions of the Contract:
   a. None
4. Changes to Specifications:
   a. None
5. Changes to Drawings:
   a. Refer to Sheet **M101**.
      1) Mechanical Room Plan 1/M101: Provide portable fire extinguisher with heavy duty mounting bracket on wall in mechanical room.
         a) Fire Extinguisher:
            1. Ten pound dry chemical ABC stored pressurized type equipped with pressure gauge and which does not need recharging except after use.
            2. Instructions for repairs, maintenance, and recharging shall be attached.
            3. Unit shall be tested and approved by UL and have minimum 4A:60-B:C UL rating. UL rating shall appear on extinguisher labels and be attached to and a part of fire extinguisher units.
            4. Manufacturers: Amerex, Ansul Inc., Buckeye Fire Equipment.
   b. Refer to Sheet **D1.1**.
      1) Provide 100 lineal feet of 6-foot-high chain link fence with lockable gate for temporary construction fence. Locate as directed by Owner to enclose construction area.
   c. Refer to Sheet **G1.2**.
      1) Refer to Detail A and make the following changes:
         a) Change the height of the brick and CMU mechanical enclosure wall to 4 feet above the concrete foundation. Make this change on all drawings.
         b) Change the size of the gravel sump at the bottom of the stairs to 3'-0" diameter x 3'-0" deep gravel sump with filter fabric around gravel.
      2) Refer to Details E and F and make the following changes:
         a) Change the metal angle frame at the inside and outside of the wall at the door to be L6 x 6 x 5/16. There will be a gap between angles. This will not need to be welded.
         b) Increase the overall width of the hollow metal door frame to 8". Locate the frame to cover the gap at the metal angles.
      3) Refer to Detail G. Change the spacing of the rebar in the 10-inch wall to #4 bars at 12" O.C. each way. Make this change at all 10-inch-wide concrete foundations.
      4) Refer to Detail H. Add the following note: Contractor to step all footings so that all footings bear a minimum of 30 inches below finish grade.
   d. Refer to attached Sheet **EG601**.
      1) Updated Panel Schedule CHB. Changed from Main Lugs to Main Breaker and added spares and circuit for thermostats.

e. Refer to attached Sheet **EP101**.
   1) Added light switch by new exterior door. Modified Keyed Note 3. Added Keyed Note 6. Modified General Note H.
f. Refer to attached Sheet **EP102**.
   1) Added circuits for thermostat j-boxes. Modified General Note H.

6. Response to Questions:

a. Question 1: On drawing EP102 there are 3 junction boxes shown in the crawl space that show needing 120 volt power for 3 thermostats. Where will these circuits come from? Can we just find the closest panel to the area? Do they need to be dedicated circuits?

Response: Circuit thermostat j-boxes to CHB-12 as indicated on revised drawings.

b. Question 2: With the change in the door location to enter the mechanical room do we need to add an additional switch so that the lighting can be turned on as you walk in that door?

Reponse: 3-way light switch added by new exterior door on revised drawings.

c. Question 3: On drawing EP102 the location of the disconnects for the condensing units as shown. Can we run Seal tight conduit with the HVAC line sets straight from the disconnects to the units? if we do I believe we will be over the 6' maximum requirement for flexible conduit.

Response: Sealtight conduit to be restricted to 6’ maximum length. The contractor may run rigid conduit then transition to sealtight if needed to limit sealtight to required lengths or the contractor may locate the disconnects closer to the equipment to an Owner approved location that meets NEC clearance requirements.

d. Question 4: Can we use the existing wire from the 200 amp disconnect to power panel CHB?

Response: The contractor will need to run new wire as indicated on revised drawings.

e. Question 5: Can we refeed the existing 60 amp 3 phase disconnect by installing new junction box in place of disconnect or will we need to run new wiring all the way back to source?

Response: The preference is to keep the wall uncluttered. Locate the panel closer to the existing 60A disconnect if needed to eliminate the need for j-boxes to extend existing conductors.

End of Addendum

EQUIPMENT SCHEDULE

TYPE	DESCRIPTION	ELECTRICAL								OVER CURRENT PROTECTION				STR	REMARKS
		V/PH	LOAD	FLA	WIRE SETS	WIRE QTY	WIRE SIZE	WIRE GND	COND SIZE	OCPD/ MOCP	TYPE	DISC SIZE/PL	FUSE SIZE	NEMA SIZE	
AH-12	AIR HANDLER	208/3	3 HP	11.0	1	3	12	12	3/4"	20	C1	-	-	-	13A
CU-12A	CONDENSING UNIT	208/3	34.3 MCA	27.4	1	3	8	10	3/4"	50	C1	60/3	50	-	9A
CU-12B	CONDENSING UNIT	208/3	34.3 MCA	27.4	1	3	8	10	3/4"	50	C1	60/3	50	-	9A

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.
- THE DIVISION 26 CONTRACTOR MAY INCREASE THE CONDUCTOR SIZE OR OCPD SIZE BY ONE INCREMENTAL SIZE TO HELP WITH MATERIAL AVAILABILITY/COST. WIRE MUST MATCH BKR.

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.

PANEL CHB — **TYPE** NQOD — **LOCATION** CHAPEL MECH
VOLTAGE 208Y/120 — **PHASE** 3 **WIRES** 4 — **AIC** 10K AMPS
MOUNTING: X SURFACE / FLUSH — FEED: X TOP / BOTTOM — MAINS: 200 AMP LUGS / X BREAKER — DIMS: 20" W, 5.75" D, 35" H
SPECIAL EQUIPMENT: X GROUND BUS; ___ SUB-FEED BRKR; ___ NEMA 3R; ___ SURGE PROTECTOR

CIR NO.	CIRCUIT DESCRIPTION	CODE	BRKR P	BRKR AMP	WIRE SIZE	CIRCUIT LOAD	COMBINED PHASES A	B	C	CIRCUIT LOAD	WIRE SIZE	BRKR AMP	BRKR P	CODE	CIRCUIT DESCRIPTION	CIR NO.
1	AIR HANDLER AH-12		3	20	12	1320	1320					60	3		EXISTING	2
3	-		-	-	12	1320		1320				-	-			4
5	-		-	-	12	1320			1320			-	-			6
7	CONDENSING UNIT CU-12A		3	50	8	3295	3475			180	12	20	1		EXTERIOR OUTLET	8
9	-		-	-	8	3295		3295				15	1		SPARE	10
11	-		-	-	8	3295			3495	200	12	20	1		THERMOSTATS	12
13	CONDENSING UNIT CU-12B		3	50	8	3295	3295					20	1		SPARE	14
15	-		-	-	8	3295		3295				20	1		SPARE	16
17	-		-	-	8	3295			3295			20	1		SPARE	18
19	SPARE		1	20			0					20	1		SPARE	20
21	SPARE		1	15				0				20	1		SPARE	22
23	SPARE		1	25					0			20	1		SPARE	24
25	SPARE		1	30			0					20	1		SPARE	26
27	SPARE		1	20				0				20	1		SPARE	28
29	SPACE								0			20	1		SPARE	30
31	SPACE						0					20	1		SPARE	32
33	SPACE							0				20	1		SPARE	34
35	SPACE								0						SPACE	36
37	SPACE						0								SPACE	38
39	SPACE							0							SPACE	40
41	SPACE								0						SPACE	42
					VA	8090	7910	8110	24 KVA							
					DIV	8090	7910	8110	AV. AMPS							
					AMPS	67	66	68	67 A							

1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE
2 = SHUNT-TRIP BREAKER
3 = SUBFEED BREAKER
4 = PROVIDE LOCK OFF DEVICE
5 = GFCI BREAKER
6 = GFEP BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 78° C

EXISTING 200 AMP FUSED DISCONNECT TO BE REPLACED WITH PANELBOARD

EXISTING FUSED DISCONNECT AND GUTTER TO BE REMOVED

1 EG601 PHOTO ELEVATION OF DISCONNECT BANK
NO SCALE

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SALT LAKE CITY, UTAH

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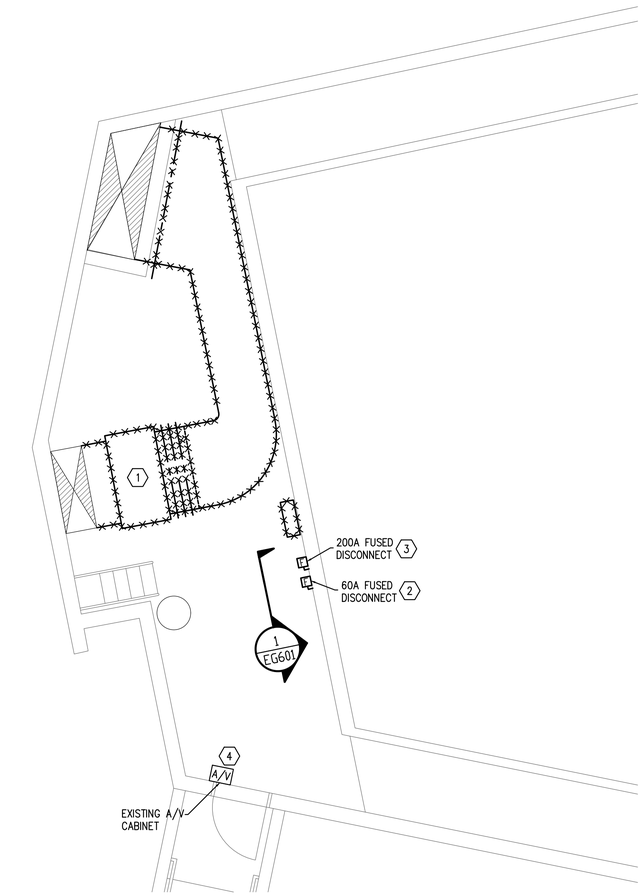
SHEET CONTENTS
ELECTRICAL SCHEDULES

EG601



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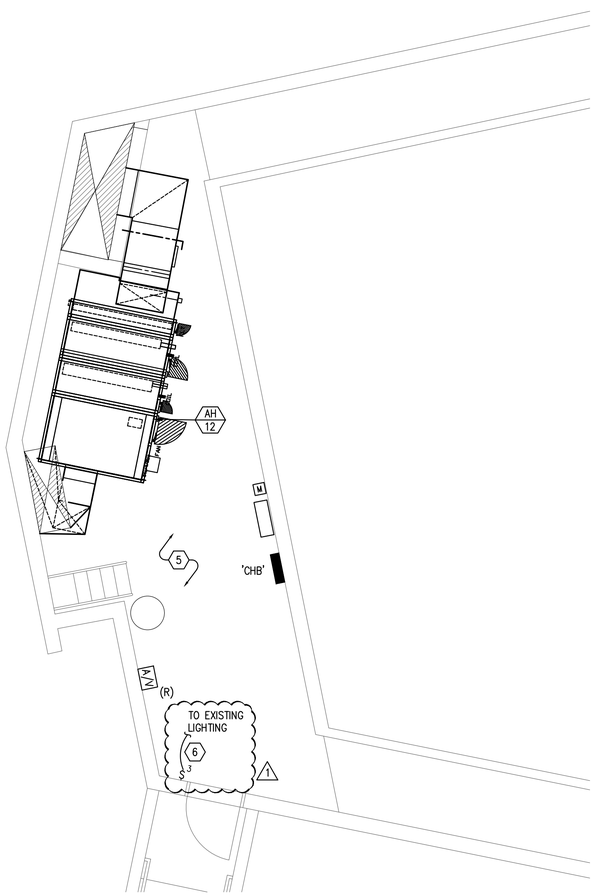
2 EP101 MECHANICAL ROOM DEMOLITION PLAN

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

0' 4' 8'



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1 EP101 MECHANICAL ROOM PLAN

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

0' 4' 8'

KEYED NOTES

1. 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.
2. REFEED EXISTING CIRCUITS FED FROM DISCONNECT TO NEW PANEL 'CHB'. REMOVE EXISTING DISCONNECT AND GUTTER RACEWAY AND EXTEND CONDUIT AND CONDUCTORS TO NEW PANEL.
3. EXISTING DISCONNECT FEEDING THE EXISTING AIR HANDLER TO BE REMOVED AND REPLACED WITH NEW 200 AMP PANELBOARD 'CHB'. RUN (4) #3/0, (1) #6 FEEDERS FOR NEW PANEL IN EXISTING 2"C. REMOVE DOWNSTREAM GUTTER AND EXTEND EXISTING CONDUIT AND CONDUCTORS TO NEW PANEL. LAND EACH CIRCUIT ON A DEDICATED BREAKER. TRACE CIRCUITS AND PROVIDE BREAKER SIZE AS REQUIRED FOR EACH CIRCUIT. LOCATE NEW PANEL AS REQUIRED TO AVOID INSTALLING NEW J-BOXES TO EXTEND EXISTING CIRCUITS. 1
4. RELOCATE EXISTING A/V CABINET TO NEW LOCATION SHOWN. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED. A/V CABLES SHALL BE CONTINUOUS. RERUN A/V CONDUCTORS AS NEEDED.
5. PROVIDE NEW LED A21, 1700 LUMEN, 4000K LAMPS, EQUAL TO GREEN CREATIVE 17A21C4DIM/840/R, FOR THE EXISTING CERAMIC BASE LIGHT SOCKETS IN THE SPACE. TROUBLESHOOT AND REPAIR LIGHTS AS NEEDED. FIELD VERIFY FOR QUANTITY.
6. FURNISH AND INSTALL A 3-WAY SWITCH TO CONTROL THE EXISTING LIGHTS IN THE SPACE. MAKE MODIFICATIONS AS NEEDED TO EXISTING WIRING FOR A COMPLETE WORKING INSTALL. 1

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. PROVIDE UPDATED TYPED PANEL SCHEDULES FOR PANELS AFFECTED BY THE SCOPE OF THIS WORK PER NEC 408.4 1

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

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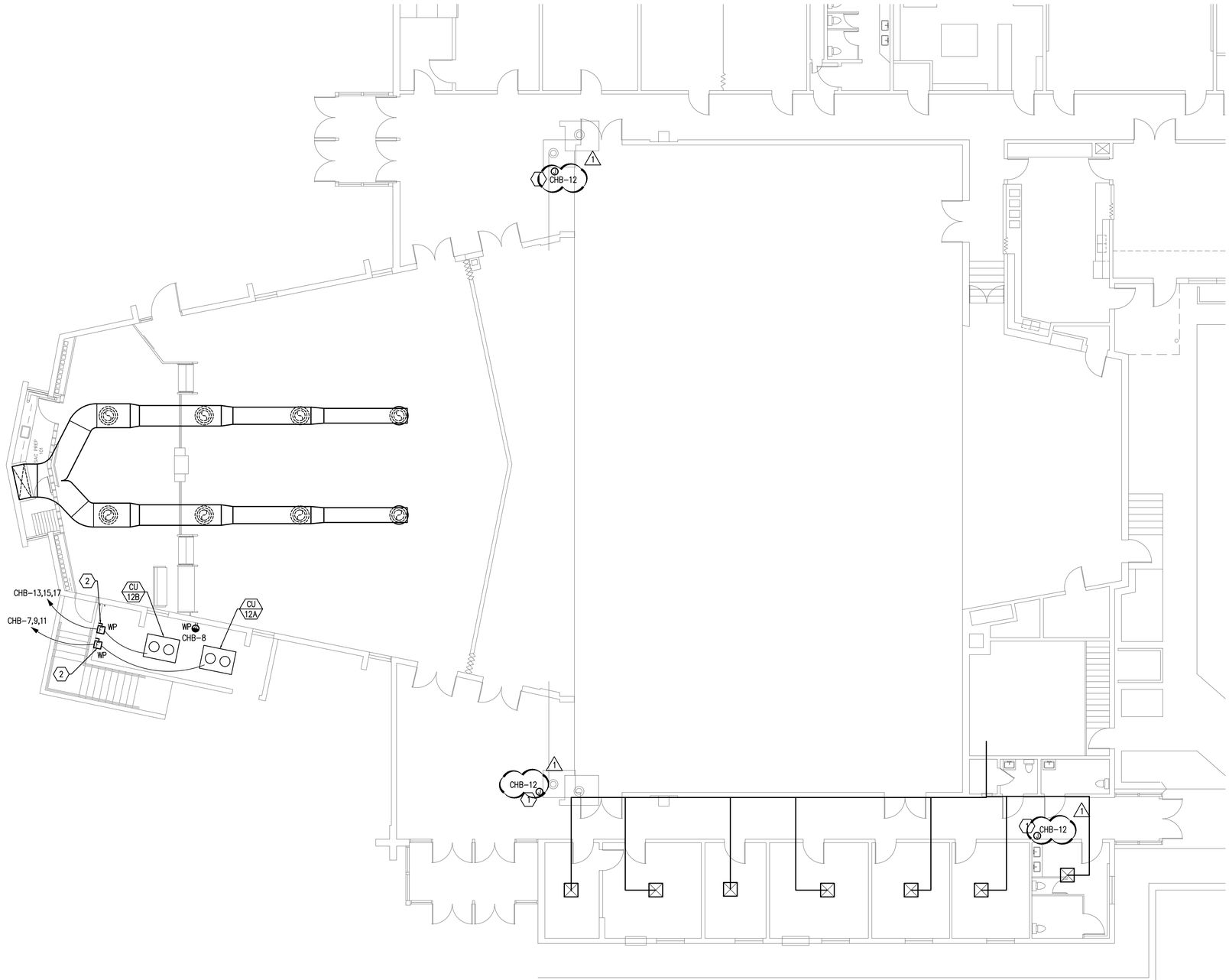
SHEET CONTENTS

DEMOLITION AND POWER PLAN

EP101



1 ELECTRICAL PLAN
EP102 SCALE: 1/8" = 1'-0"
0' 8' 16'

KEYED NOTES

1. PROVIDE 120V POWER IN CRAWL SPACE TO POWER ELECTRIC THERMOSTAT.
2. LOCATE FUSED DISCONNECTS TO MEET NEC CLEARANCE REQUIREMENTS.

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.

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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. PROVIDE UPDATED TYPED PANEL SCHEDULES FOR PANELS AFFECTED BY THE SCOPE OF THIS WORK PER NEC 408.4. (1)

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

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SHEET CONTENTS
CHAPEL POWER PLAN

EP102