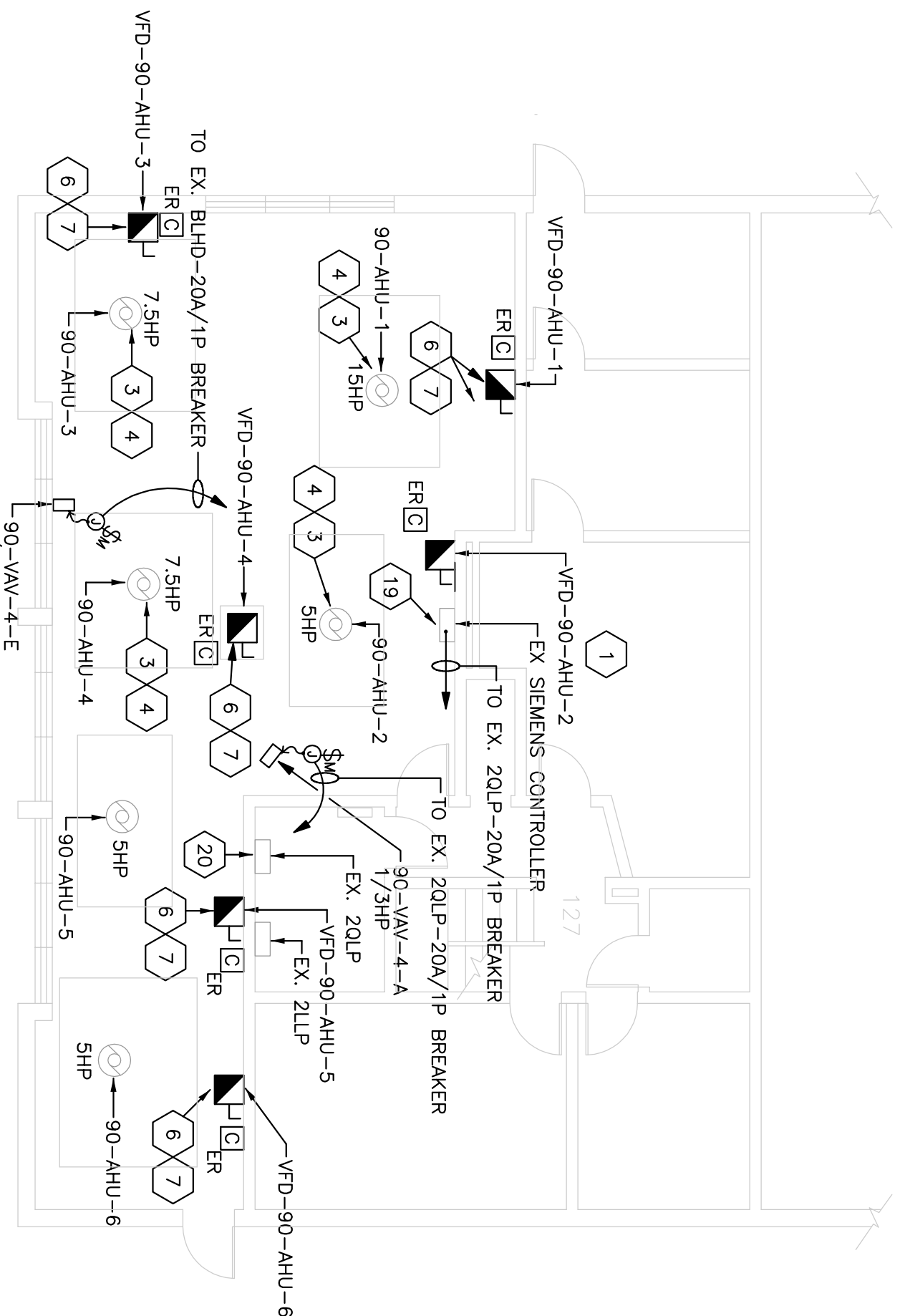


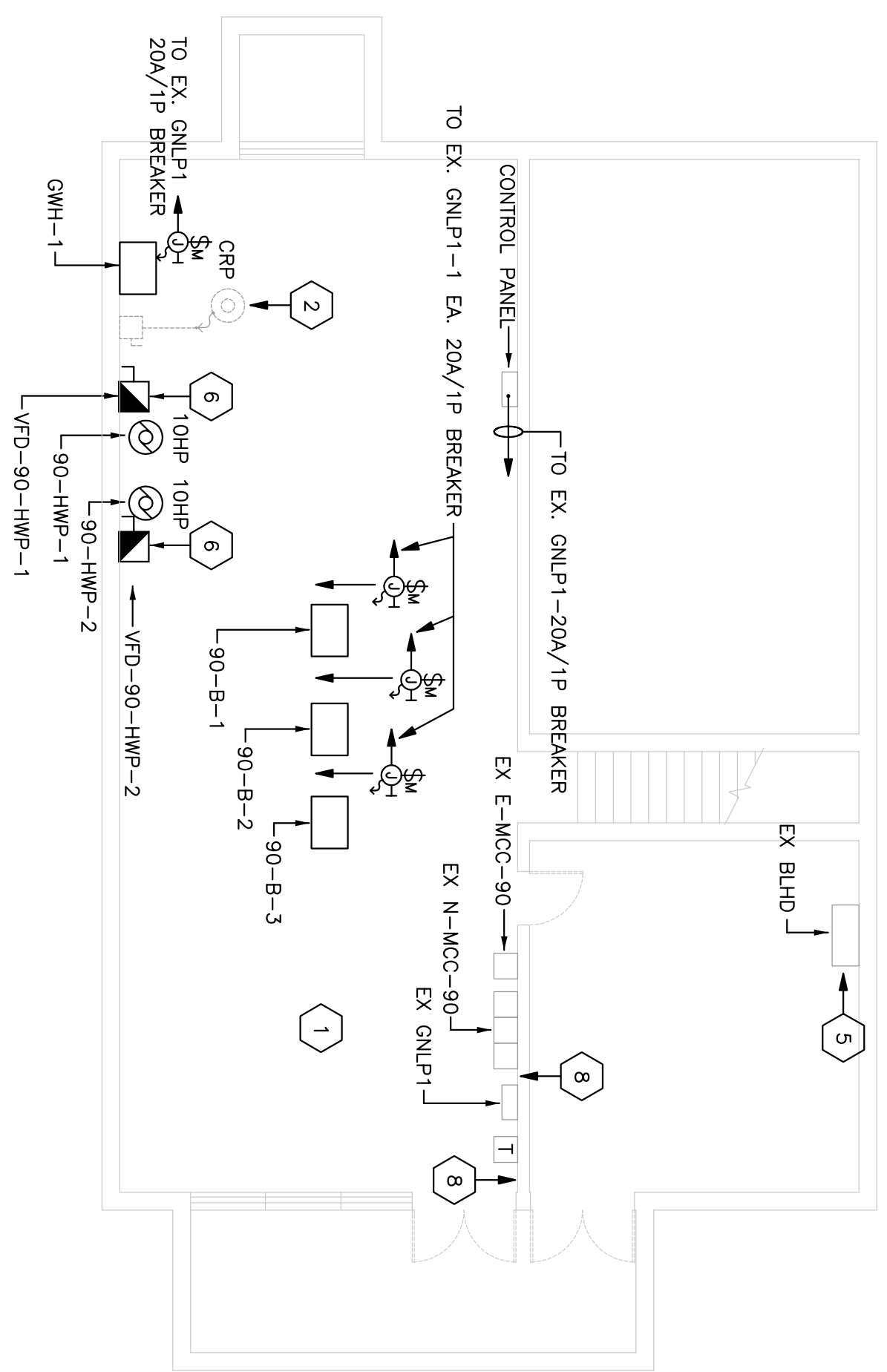
KEYED NOTES:

- | | | |
|----|---|--|
| 1 | - | SEE SHEET 90E1/2 FOR RISER. |
| 2 | - | DISCONNECT AND REMOVE EXISTING COMPENSATOR, RETURN PUMP, AND ALL ASSOCIATED BRANCH CIRCUITRY COMPLETE BACK TO THE PANEL OF ORIGINATION.
NEW BREAKER TO BE PROVIDED FOR THIS POSITION AND LABEL "SAFETY". |
| 3 | - | DISCONNECT EXISTING AIR HANDLING UNIT, RECONNECT UNIT AS REQUIRED AFTER ALL MODIFICATIONS TO THE UNIT HAVE BEEN MADE. SEE MECHANICAL DRAWINGS. |
| 4 | - | DISCONNECT EXISTING DUCT DETECTORS, AND HOLD FOR REINSTALLATION WHILE AIR HANDLING UNIT IS BEING REPLACED. REINSTALL DUCT DETECTOR AS REQUIRED IN ACCORDANCE WITH 90A/1/2 AND 90A/4/30. |
| 5 | - | PROVIDE TWO 20A/1P CIRCUIT BREAKERS IN EX. BLDG. BLUD IS A 225A, 277/480V, 3# 4W PANELBOARD MANUFACTURED BY GE, A SERIES. |
| 6 | - | INSTALL NEW COMBINATION VARIABLE FREQUENCY DRIVE (VFD) WITH PRESS MOUNTED ON WALL, UNLESS OTHERWISE INDICATED, IN PLACE OF EXISTING SAFETY SWITCH, TO BE REMOVED AS REQUIRED. SEE SHEET 90E1/2 FOR VFD RISER. |
| 7 | - | DISCONNECT AND REMOVE EXISTING SAFETY SWITCH COMPLETE. PHASE AND GROUND CONDUCTORS FROM CIRCUIT BREAKER/MCP TO REMAIN FOR VFD INSTALLATION. SEE VFD RISER SHEET 90E1/2. |
| 8 | - | DISCONNECT AND RELOCATE EXISTING FIRE ALARM SYSTEM AND SHUTDOWN CONTROL MODULES FROM MOTOR CONTROL CENTER TO A POINT WITHIN 3'-0" OF NEW VFD LOCATION. SEE PLANS, PROVIDE ALL CONDUIT AND WIRING AS REQUIRED FOR A COMPLETE OPERATIONAL AND SHUTDOWN SYSTEM. |
| 9 | - | WORK THIS AREA CONSISTS OF SUBSTITUTING ABOVE CEILING CONSTRUCTION AND DEMOLITION, REMOVE EXISTING CEILING GRID, DISCONNECT EXISTING LIGHTING FIXTURES AND NEW CEILING GRID, NEW GRID SHALL MATCH EXISTING GRID IN STYLE. SEE SHEET 90E2/1 FOR NEW REFLECTIVE CEILING PLAN AND NEW LIGHTING LAYOUT. |
| 10 | - | DISCONNECT EXISTING TYPICAL EQUIPMENT FOR REMOVAL. RECONNECT NEW EQUIPMENT AS REQUIRED. |
| 11 | - | INSTALL NEW 30A/1/2, 480Y/277V SAFETY SWITCH IN A NEW 125A RACK-ALL CONNECTIONS AS REQUIRED. NEW SAFETY SWITCH TO NEW UTILITY SERVICE STRUCTURE. PROVIDE 3/4" X 1/2" AND 3/4" W/UNDERBOLT FLEXIBLE CONDUIT FROM LOAD SIDE OF CIRCUIT BREAKER/MCP. EXTEND EXISTING CONDUCTORS AS NECESSARY AND RECONNECT TO LOAD SIDE OF CIRCUIT BREAKER. |
| 12 | - | REMOVE EXISTING PHASE AND GROUND CONDUCTORS IN OVERHEAD CONDUIT FROM EXISTING CIRCUIT BREAKER/MCP IN H-MCC-90 AND E-MCC-90 TO NEW VFD. CONDUCTORS FROM EXISTING CIRCUIT BREAKER/MCP TO NEW VFD SHALL BE 3/4" X 1/2" AND 1/2" X 1/2" CND., 3/4" C., 3/4" C., UNLESS OTHERWISE INDICATED. |
| 13 | - | DISCONNECT AND REMOVE EXISTING CONDUCTORS AND FLEXIBLE CONDUIT COMPLETE FROM LOAD SIDE OF SAFETY SWITCH/MOTOR. |
| 14 | - | CAT 6 CABLE OR CONDUCTORS AS REQUIRED IN 3/4" C. FROM VFD TO NEW PROBE CONTROLLER. MAKE ALL CONNECTIONS AS REQUIRED. |
| 15 | - | APPROVED BY ENGINEER. |
| 16 | - | REMOVE LABELING ON EXISTING MCC CUBICLE DOOR IDENTIFYING VFD SERVED. RELABEL ALL EQUIPMENT TO REFLECT NOMECLATURE USED ON THESE PLANS. LABELING SHALL BE AS APPROVED BY ENGINEER. |
| 17 | - | BOND EXISTING EQUIPMENT GROUNDING CONDUCTOR TO NEW VFD AS REQUIRED. |
| 18 | - | INSTALL NEW 3/4" X 1/2" AND 1/2" X 1/2" CND. IN 3/4" FLEXIBLE CONDUIT, FROM NEW VFD/SAFETY SWITCH TO MOTOR. MAKE ALL CONNECTIONS AS NECESSARY FOR A COMPLETE OPERATIONAL SYSTEM. |
| 19 | - | DISCONNECT EXISTING SIEMENS CONTROL PANEL, AND RECONNECT TO BRANCH CIRCUIT WIRING AS INDICATED. |
| 20 | - | PROVIDE SIX 20A/1P CIRCUIT BREAKERS IN EX. 20L.P. 20L.P. IS A 100A, 120/208V, 3# PANELBOARD MANUFACTURED BY GE, A SERIES. |
| 21 | - | DISCONNECT AND REMOVE ALL ABANDONED ELECTRICAL COMPONENTS THIS AREA BACK TO THE POINT OF ORIGINATION. |
| 22 | - | DISCONNECT EXISTING KITCHEN HOOD FOR REMOVAL, DISCONNECT ALL EXISTING HOOD MOUNTED SAFETY/DISCONNECT SWITCHES SERVING EQUIPMENT BEneath HOOD AND HOLD FOR REINSTALLATION, MODIFY CIRCUITS, REINSTALL, AND MAKE ALL CONNECTIONS AS REQUIRED UPON INSTALLATION OF NEW KITCHEN HOOD. |
| 23 | - | DISCONNECT AND REMOVE EXISTING FLUORENCE HEAT PUMP AND ALL ASSOCIATED BRANCH CIRCUITRY COMPLETE BACK TO THE POINT OF ORIGINATION, |
| 24 | - | PROVIDE EIGHT 20A/1P CIRCUIT BREAKERS IN EX. GULP1. GULP1 IS A 125A, 120/208V, 3# 4W PANELBOARD MANUFACTURED BY GE, A SERIES. |



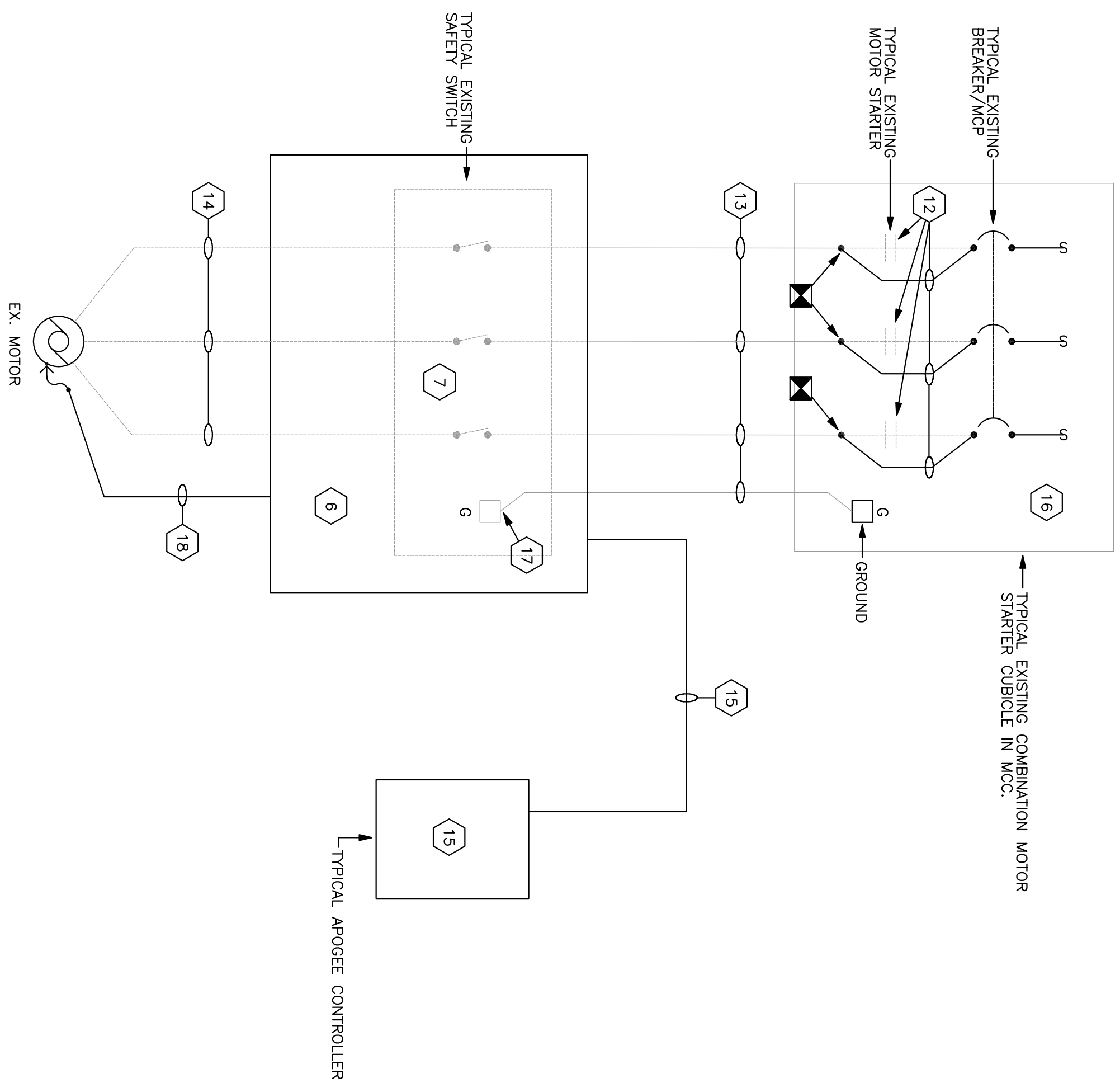
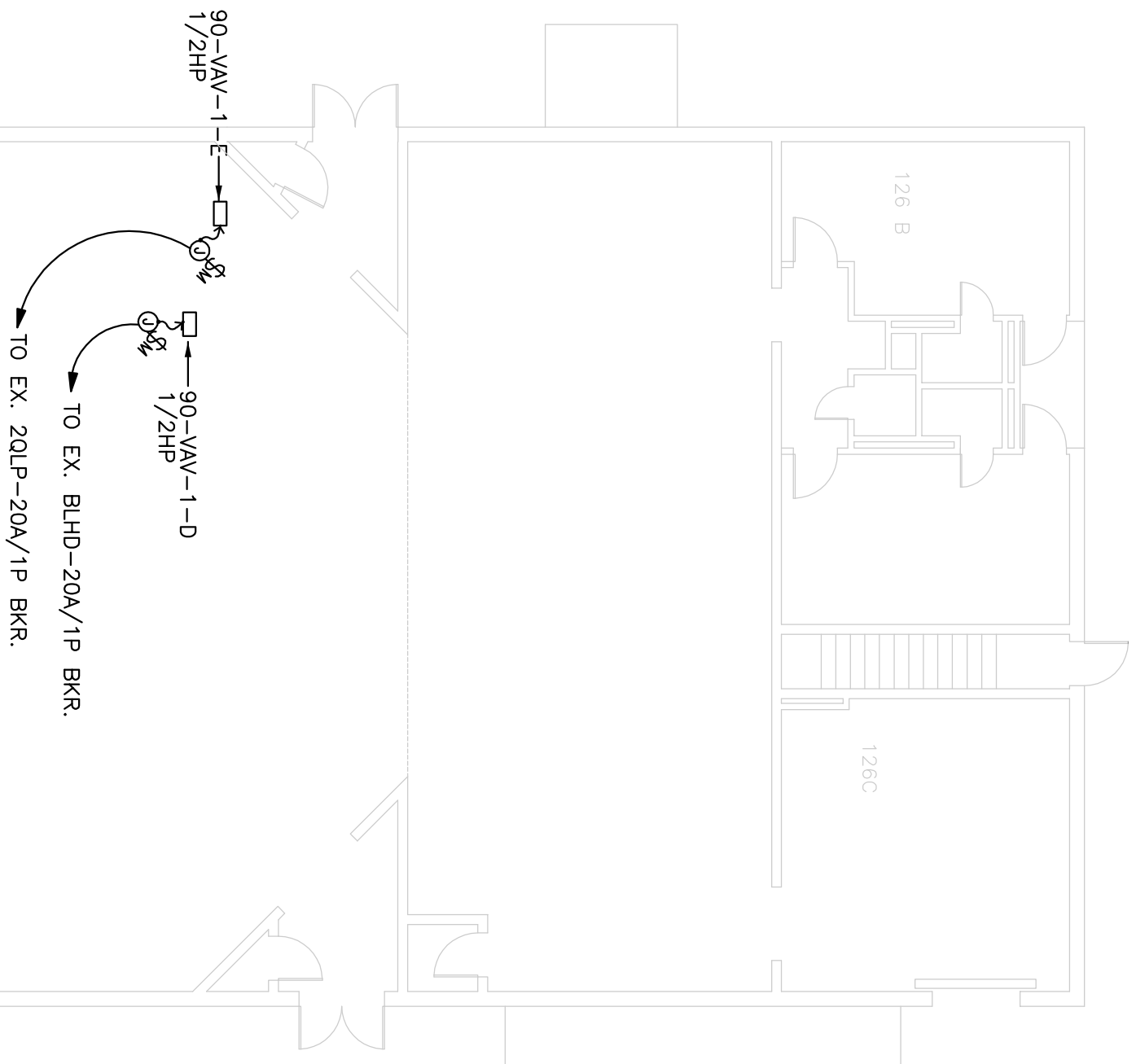
BUILDING 90, SECOND FLOOR PLAN

SCALE: 1/8" (0.24CM) = 1'-0" (30.5CM)



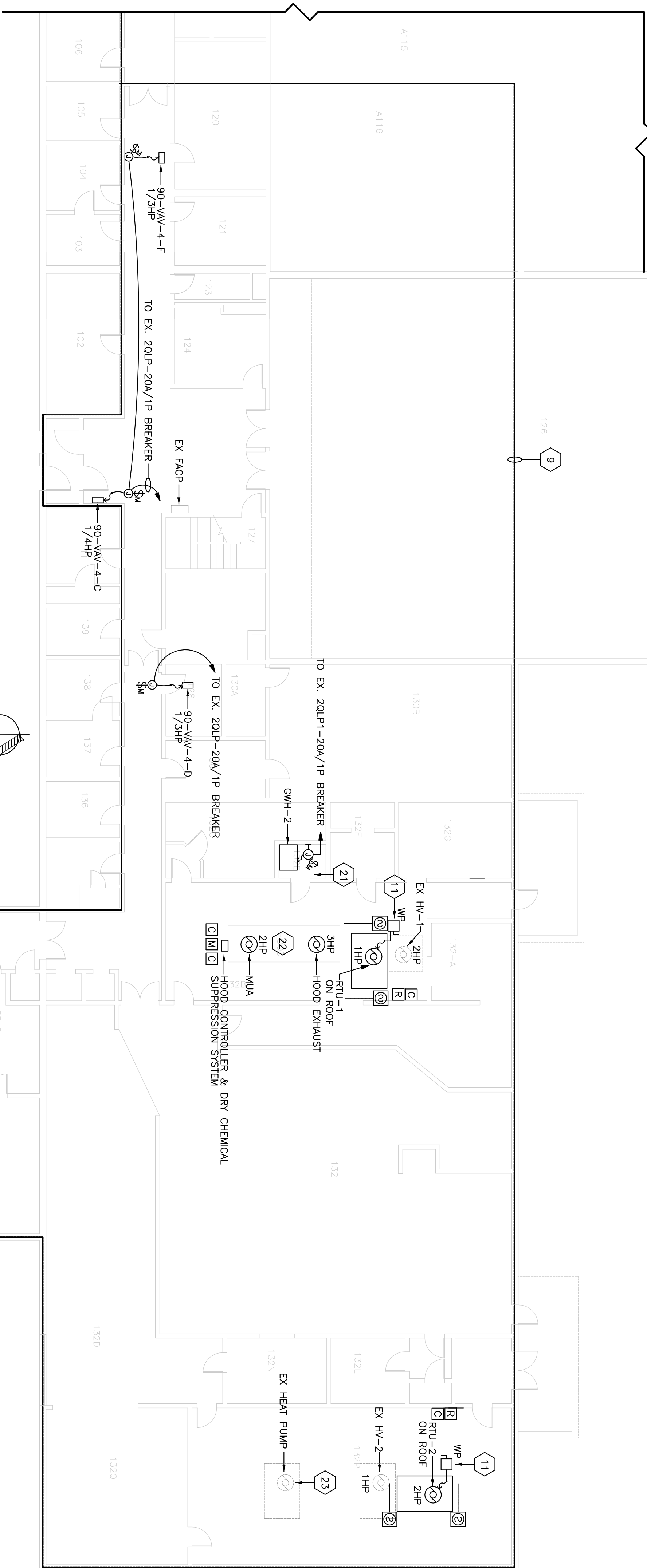
BUILDING 90, BASEMENT FLOOR PLAN

SCALE: 1/8" (0.24CM) = 1'-0" (30.5CM)



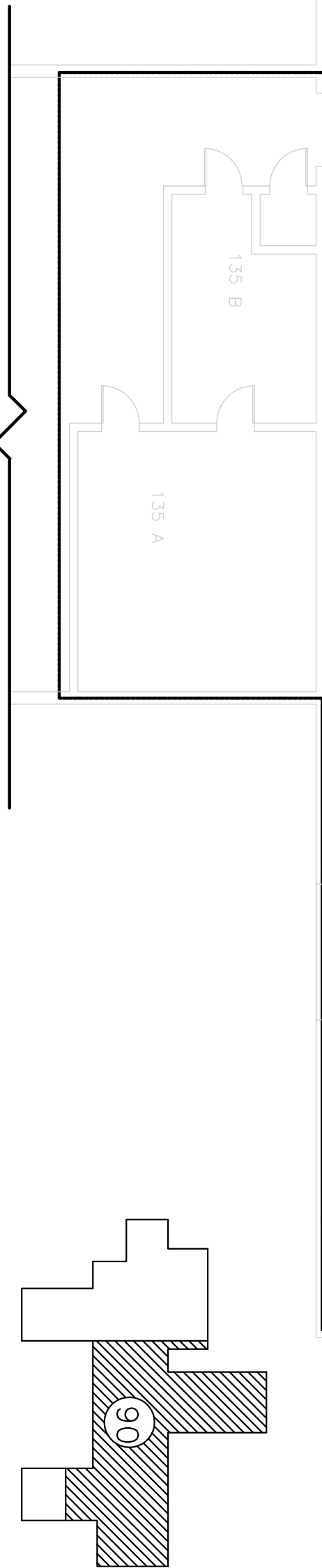
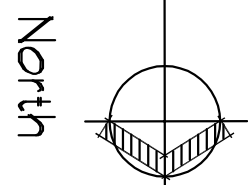
TYPICAL WIRING DIAGRAM FOR VFD INSTALLATION

NOT TO SCALE

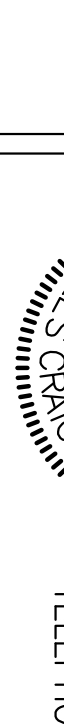


BUILDING 90, PARTIAL FIRST FLOOR PLAN

SCALE: 3/32" (0.24CM) = 1'-0" (30.5CM)



KEY PLAN

Professional Stamp:		Professional Seal:	
			
MCE MILLS-CONOLLY ENGINEERING, P.C.			
8218 Old Federal Road Montgomery, AL 36117 TELEPHONE: (334) 270-0010 FAX: (334) 270-0040			
CIVILICS			
Central Alabama Veterans Health Care System			
Approved:	Approved:	Briefed Title:	Date:
Approved:	Approved:	BUILDING 90, BASEMENT, FIRST FLOOR AND SECOND FLOOR PLAN AND TYPICAL WIRING DIAGRAM FOR VFD INSTALLATION	12/21/10
Approved:	Approved:	Drafting: DDBlower	Project Date: 6/9 - 10 - 4/45
Approved:	Approved:	(Optional) Description of Project	DRAWING NO. 90B.EI.1
Issued By:	Reviewed:	Building Number:	Drawn: SS or JS
Eat Campus, Tuskegee, AL	CCM	ACM	
Veterans Administration			