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To: Prospective Bidders
From: Wold Architects and Engineers
Date: April 29, 2013
Comm. No: 124021

Subject: Addendum No. 2 for Bidding Documents for the: **Redford Union Mechanical /
Electrical Improvements Project
Redford, Michigan**

BIDS DUE MAY 2, 2013 AT 2:00 P.M.

This addendum forms a part of the Contract Documents dated April 16, 2013. Acknowledge receipt of this Addendum on the space provided on the Bid Form. Failure to do so may result in disqualification of Bid.

This Addendum consists of four (4) typed sheets and attachments:

Quote of Roof Work from Summit Roofing

Drawings: SKE0.00.01, SKE0.00.02, SKE0.00.03, SKE0.00.04, SKE0.00.05, SKE0.00.06, SKE0.01.01H, SKE0.01.02H, SKE0.01.03H, SKE0.01.04H, SKED1.11.01H, SKED1.11.02H, SKE1.11.01H, SKE1.11.02H, SKE1.11.03H, SKE1.11.04H, SKED1.12.01H, SKE1.12.01H, SKE1.13.01H, SKE1.14.01H, SKE1.14.02H, SKE1.14.03H, SKE1.15.01H, SKE1.21.01H, SKE1.21.02H, SKE1.23.01H, SKE1.23.02H, SKE0.02.01M, SKE2.11.01M, SKE2.11.02M, SKE2.11.03M, SKE2.11.04M, SKE2.11.05M, SKE2.11.06M, SKED2.11.01M, SKE0.03.01S, SKE3.11.01S, SKE3.12.01S

PROJECT MANUAL

1. SPECIFICATION SECTION 01 21 00 ALLOWANCES

1. Add the following attachments: Quote for Roof Work from Summit Roofing.

PRIOR APPROVALS

The following schedule amends designated specification sections to list additional acceptable manufacturers. Use of any product by any of these manufacturers will be permitted only if after review of shop drawings or detailed product data per Section 01 33 00, Architect determines that proposed materials or equipment are equivalent in performance, construction and appearance to product(s) specified.

Where anticipated product substitutions would alter the design or space requirements indicated on the Drawings, pay for cost of design and construction revisions including the cost of associated work by other contractors.

For complete requirements, see Specification Section 01 25 00 – Substitutions and Product Options.

<u>Section No.</u>	<u>Item</u>	<u>Type</u>	<u>Acceptable Manufacturer</u>
23 81 26	2.01A		Daikin

DRAWINGS

1. **DRAWING E0.00 ELECTRICAL GENERAL INFORMATION**

- A. Refer to attached sketches SKE0.00.01-.06
 - 1. Revise light fixture type 'HA' to 100w metal halide type lamp.
 - 2. Revise light fixture type 'HAE' to have quartz restrike.
 - 3. Add fixture type 'HCE'.
 - 4. Add one line diagrams and associated keyed notes for High School and Stuckey Center.
 - 5. Add panel schedule for RP-H at Stuckey Center.

2. **HIGH SCHOOL**

A. **DRAWING A1.11H – MAIN LEVEL FLOOR PLAN AND A1.12H UPPER LEVEL FLOOR PLAN**

- 1) Refer to "Floor Plan General Notes" and add Note #5 to read:
"5. Roofing contractor (per Section 01 21 00 Allowances) responsible for all insulation, membrane, blocking, and flashing repair. Other contractors under this contract shall supply and install new decking and metal framing as indicated in details B7/A.11H and B9/A1.11H, and shall coordinate with roofing contractor for sequencing of work and to eliminate any time allowing an uncovered roof opening when contractors are not on site or during inclement weather."

B. **DRAWING M1.12H - PARTIAL MAIN LEVEL HVAC, PIPING, AND EMCS PLANS - AREA 'B' AND AREA 'D'**

- 1) Refer to G1/M1.12H - Partial Main Level HVAC Piping, and EMCS Plan - Area 'B', eliminate all work associated with the vehicle exhaust floor covers at fifteen (15) locations

C. **DRAWING E0.01H REDFORD UNION H. S. ELECTRICAL SITE PLAN**

- 1) Refer to attached sketch SKE0.01.01-.04H
 - a. Add existing arm mount wall fixtures for clarification.
 - b. Add (4) type 'HA' fixtures to be replaced.

D. **DRAWING ED1.11H-ED1.16H MAIN LEVEL ELECTRICAL DEMOLITION PLAN - AREA 'A' to AREA 'F'**

- 1) Refer to attached sketch SKED1.11.01-.02H
 - a. Revise keyed notes 5, 6.
 - b. Add keyed note 12, 13.
 - c. Add keyed note 12 for Boilers being removed.
 - d. Add keyed note 13 for Boiler Room pumps.

E. **DRAWING E1.11H-E1.16H H.S. MAIN LEVEL ELECTRICAL PLAN - AREA 'A' to AREA 'F'**

- 1) Refer to attached sketch SKE -1.11.01-.03H
 - a. Revise keyed note L3, P1, P2, P4, P7, P8, P9, P10, P12, P13, P14, P15, P19, P20, P21.
 - b. Add keyed notes L4, P22, P23, P24.

F. **DRAWING E1.11H H.S. MAIN LEVEL ELECTRICAL PLAN - AREA 'A'**

- 1) Refer to attached sketch SKE1.11.04H
 - a. Add feeder size to MAU-1.
 - b. Remove P8 in room A141.
 - c. Revise location of note P9 (panel P-2).

G. **DRAWING E1.12H H.S. MAIN LEVEL ELECTRICAL PLAN - AREA 'B'**

- 1) Refer to attached sketch SKE1.12.01H
 - a. Add keyed note P24 to P-1 and P-2.

H. **DRAWING E1.13H H.S. MAIN LEVEL ELECTRICAL PLAN - AREA 'C'**

- 1) Refer to attached sketch SKE1.13.01H
 - a. Add (2) type HCE fixtures as South entry.

I. **DRAWING E1.14H H.S. MAIN LEVEL ELECTRICAL PLAN - AREA 'D'**

- 1) Refer to attached sketch SKE1.14.01H
 - a. Add keyed notes P22, P23 in Boiler Room D131B.
 - b. Revise size of disconnect switches at Boiler to be 30A.

- 2) Refer to attached sketch SKE1.14.02H
 - a. Add (3) type HCE fixtures at north entry.
 - 3) Refer to attached sketch SKE1.14.03H
 - a. Add (3) type HCE fixtures at Main Entry.
 - J. DRAWING E1.15H H.S. MAIN LEVEL ELECTRICAL PLAN - AREA 'E'**
 - 1) Refer to attached sketch SKE1.15.01H
 - a. Add (1) type HCE fixtures at north entry.
 - K. DRAWING E1.21H-E1.23H H.S. UPPER LEVEL ELECTRICAL PLAN - AREAS 'D' , 'C' , 'E' , AND 'F'**
 - 1) Refer to attached sketch SKE1.12.01H
 - a. Add keyed notes L1, P1.
 - L. DRAWING E1.21H H.S. UPPER LEVEL ELECTRICAL PLAN - AREAS 'D' AND 'E'**
 - 1) Refer to attached sketch SKE1.21.02H
 - a. Add keyed notes L1 and P1 to CU-3.
 - M. DRAWING E1.23H H.S. UPPER LEVEL ELECTRICAL PLAN - AREAS 'C' AND 'F'**
 - 1) Refer to attached sketch SKE1.23.01h-.02H
 - a. Add keyed notes L1 and P1 to CU-1 and CU-2.
- 3. MACGOWAN ELEMENTARY**
- A. DRAWING A1.11M ROOF PLAN**
 - 1) Add "General Notes" #1 to read:
 "1. Roofing contractor (per Section 01 21 00 Allowances) responsible for all insulation, membrane, blocking, and flashing repair. Other contractors under this contract shall supply and install new decking and metal framing as indicated in detail D9/A1.11M, and shall coordinate with roofing contractor for sequencing of work and to eliminate any time allowing an uncovered roof opening when contractors are not on site or during inclement weather."
 - B. DRAWING E0.02M MACGOWAN ELEMENTARY ELECTRICAL SITE PLAN**
 - 1) Refer to attached sketch SKE0.02.01M
 - a. Add note to circuit new site lighting to Panel E.
 - 2) Change keyed note #3 to read, "Below grade conduits shall be schedule 40 PVC, all conduit in lighting fixture or pole concrete base shall be rigid steel. Conduit used indoors shall be E.M.T. Conduit below grade shall be in excavated trench or utilizing directional boring at contractor's option. Contractor responsible for all patch, repair, and site restoration to match materials, quality and depth of existing."
 - C. DRAWING E2.11M MACGOWAN ELEMENTARY ELECTRICAL PLAN**
 - 1) Refer to attached sketch SKE2.11.01M-.06M
 - a. Revise selected fixtures to be type HCE.
 - b. Revise keyed notes 2 and 3.
 - c. Add keyed note 4.
 - d. Revise circuiting of VFD-3 and VFD-4.
 - N. DRAWING ED2.11M MACGOWAN ELEMENTARY ELECTRICAL DEMOLITION PLAN**
 - 1) Refer to attached sketch SKED2.11.01M
 - a. Revise keyed note 3.
- 4. STUCKEY CENTER**
- A. DRAWING A1.11H – MAIN LEVEL FLOOR PLAN AND A1.12H UPPER LEVEL FLOOR PLAN**
 - 1) Add "General Notes" #1 to read:
 "1. Roofing contractor (per Section 01 21 00 Allowances) responsible for all insulation, membrane, blocking, and flashing repair. Other contractors under this contract shall supply and install new decking and metal framing as indicated in detail B8/A1.11S, and shall coordinate with roofing contractor for sequencing of work and to eliminate any time allowing an uncovered roof opening when contractors are not on site or during inclement weather."

B. DRAWING E0.03S STUCKEY ELEMENTARY ELECTRICAL SITE PLAN

- 1) Refer to attached sketch SKE0.03.01S
 - a. Add note to circuit new site lighting to panel RP-H.
- 2) Change keyed note #3 to read, "Below grade conduits shall be schedule 40 PVC, all conduit in lighting fixture or pole concrete base shall be rigid steel. Conduit used indoors shall be E.M.T. Conduit below grade shall be in excavated trench or utilizing directional boring at contractor's option. Contractor responsible for all patch, repair, and site restoration to match materials, quality and depth of existing."

C. DRAWING E3.11S AND E3.12S STUCKEY ELEMENTARY ELECTRICAL DEMOLITION PLANS - 'A' & 'B' AND STUCKEY ELEMENTARY ELECTRICAL DEMOLITION PLANS - 'C' & 'D'

- 1) Refer to attached sketch SKE3.11.01s-.02
 - a. Revise keyed note 2
 - b. Revise keyed note 3 to be not used.
 - c. Revised keyed note 6.
 - d. Revise fixture at East entry to be type 'HCE'
 - e. Add circuiting for Boilers and Pumps
 - f. Add new panel RP-h
 - g. Show (E) panel PP-1 for clarification.

END OF ADDENDUM #2

Summit Roofing LLC

Phone: (248) 393-8300

Fax: (248) 393-8307

1755 Waldon Road
Lake Orion, MI 48359

Roofing Proposal

April 29, 2013

Quote Number:

To **Wold Architects and Engineers**
333 West Seventh Street
Royal Oak, MI 48067
Attn: **Jonathan Loose**

Project: **Redford Union Schools**
Redford, MI

We propose to furnish all labor, material equipment and supervision necessary to complete the above referenced project with the following scope of work:

Provide new insulation infill to areas indicated on plans and patch with 60-mil fully adhered EPDM rubber membrane by Firestone. All work will meet manufacturer requirements to maintain the existing warranted roofing systems. We will use accessory items provided by Firestone such as pipe boots, pre-fabricated corners and curb flashings. We will include wood blocking where required by the roofing manufacturer.

Total Base Bid Price for the above scope of work for Redford Union High School. \$10,000.00

If Alternate No.1 is applied to the base bid DEDUCT <\$1,000.00>

Total Base Bid Price for the above scope of work for MacGowan. \$1,000.00

Total Base Bid Price for the above scope of work for Stuckey Center. \$1,100.00

If Alternate No.2 is applied to the base bid ADD \$1,300.00

All penetrations and structural deck and framing should be in place prior to our forces starting the project. Pricing is based on having adequate area to set up equipment and store materials. Any alteration or deviation for above specifications involving extra costs will be executed only upon written order, and will become an extra charge over and above the estimate. We have not allowed for any winter conditions, any ice or snow removal would be in addition to the above pricing. All agreements contingent upon strikes, accidents, or delays beyond our control, such as but not limited to weather conditions. Note - we may withdraw this proposal if not accepted within 45 days.

Thank you for the opportunity to quote on the above project. Please contact me at my office if you have any questions or need additional information.

Submitted By: Mike Kearns
Project Manager

LUMINAIRE SCHEDULE

FIXTURE MARK	DESCRIPTION	MANUFACTURER(S)	LAMP DESCRIPTION
(HA)	DECORATIVE TRAPEZOID WALL MOUNTED LIGHT FIXTURE WITH MEDIUM THROW DISTRIBUTION. DARK BRONZE TEXTURED FINISH. UL LISTED FOR WET LOCATIONS. PROVIDE PULSE START ELECTRONIC BALLAST, MVOLT OPERATION, <10%THD. PROVIDE WITH COLD WEATHER BALLAST CAPABLE OF 0° STARTING TEMPERATURE.	1. LITHONIA WST SERIES 2. WIDE-LITE AWS1 SERIES 3. LUMARK IP SERIES 4. GARDCO 101 SERIES	(1) 100W METAL HALIDE
(HAE)	SHALL BE SAME AS TYPE 'HA' EXCEPT PROVIDE WITH QUARTZ RESTRIKE FOR EMERGENCY OPERATION.		
(HB)	POLE MOUNT SITE FIXTURE WITH ALUMINUM RECTANGULAR HOUSING AND STANDARD DARK BRONZE FINISH. PROVIDE WITH TYPE IV WIDE FORWARD THROW DISTRIBUTION. PROVIDE WITH MVOLT PULSE START BALLAST. POLE SHALL BE SQUARE 22' IN LENGTH WITH 9" ARM MOUNTING. REFER TO DETAILS FOR CONCRETE POLE BASE DETAILS.	1. LITHONIA KSF2 SERIES	(1) 320W PS MH
(HB3)	SHALL BE SAME AS TYPE 'HB' EXCEPT PROVIDE WITH TYPE III DISTRIBUTION.	1. LITHONIA KSF2 SERIES	(1) 320W PS MH
(HC)	EXTERIOR CANOPY LUMINAIRE WITH DROP PRISMATIC LENS. DARK BRONZE TEXTURED FINISH. MVOLT OPERATION. UL LISTED FOR WET LOCATIONS. PROVIDE PULSE START ELECTRONIC BALLAST	1. LITHONIA KACM SERIES	(1) 150W PS MH
(HCE)	SHALL BE SAME AS TYPE 'HC' EXCEPT PROVIDE WITH QUARTZ RESTRIKE FOR EMERGENCY OPERATION.		
	EXIT LIGHT SHALL BE MOUNT AS REQUIRED TYPE WITH WHITE THERMOPLASTIC HOUSING. HIGH OUTPUT LED DIFFUSE LIGHT PANEL. SINGLE STENCIL WHITE FACE, RED LETTERS AND DIRECTIONAL CHEVRONS TO MATCH	1. LITHONIA LCM 2. LIGHTOLIER LL SERIES 3. SURE-LITES LPX SERIES 4. MCPHILBEN VE SERIES	HIGH OUTPUT LED LIGHT PANEL



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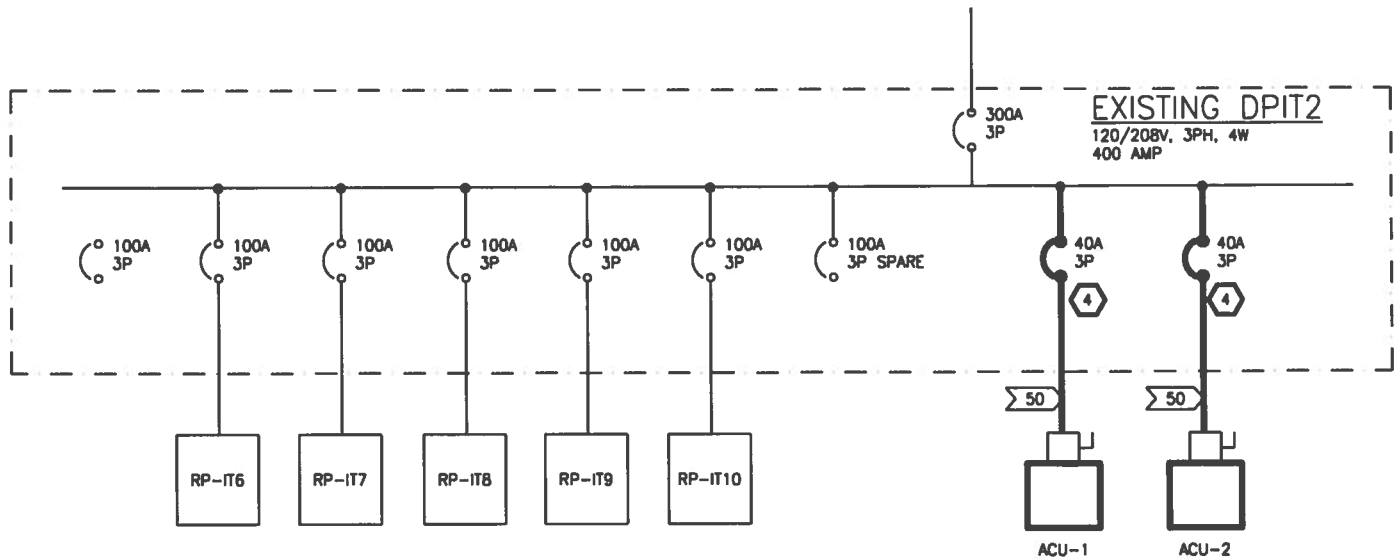
PROJECT:
Redford Union Schools
Mechanical/Electrical Improvments
19990 Beech Daly Road
Redford, MI 48240

ISSUED FOR: Addendum No. 1
REF. DRAWING: E0.00
DATE ISSUED: 4/29/2013

DRAWING NO:

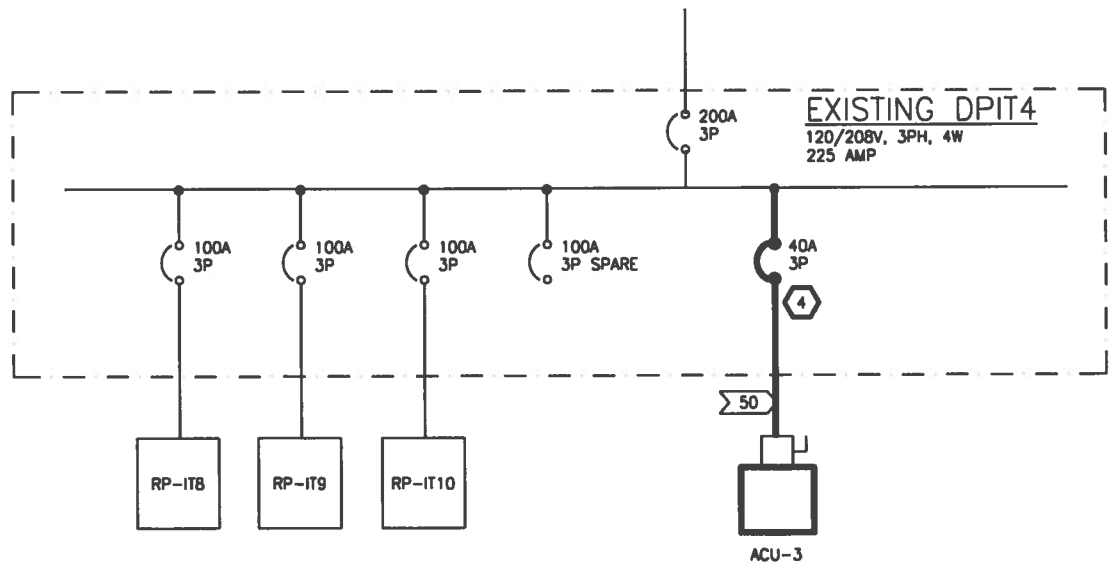
SKE0.00.01

SCALE: No Scale



PARTIAL ONE LINE DIAGRAM (HIGH SCHOOL)

1/8" = 1'-0"



PARTIAL ONE LINE DIAGRAM (HIGH SCHOOL)

1/8" = 1'-0"



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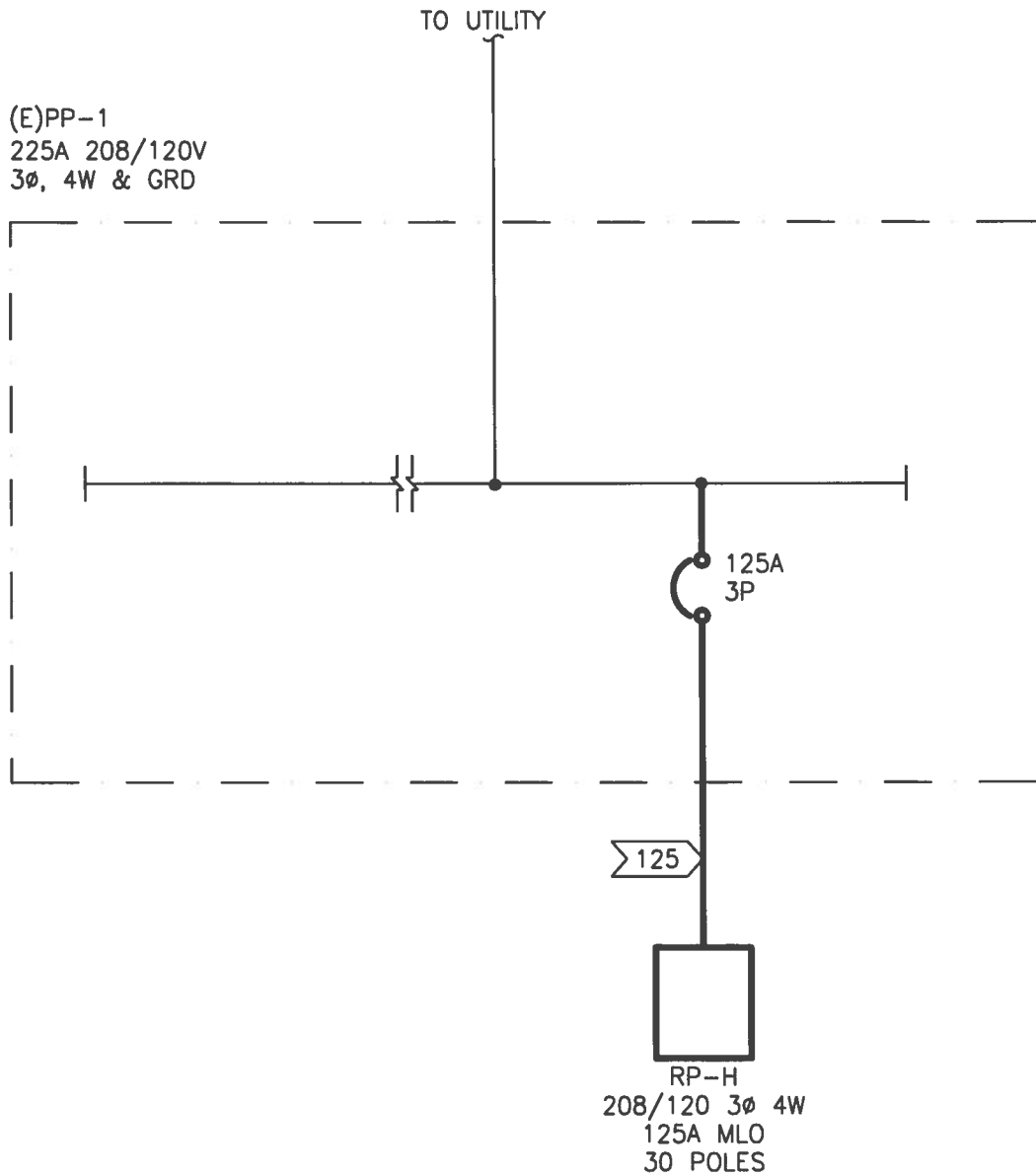
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(E)PP-1
225A 208/120V
3 ϕ , 4W & GRD



PARTIAL ONE LINE DIAGRAM (STUCKEY CENTER)

1/8" = 1'-0"



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ONE LINE GENERAL NOTES

1. ELECTRICAL TRADES TO PROVIDE UP TO DATE CIRCUIT DIRECTORIES IN ALL ELECTRICAL PANELS, DISTRIBUTION PANELS AND SWITCHBOARDS.

ONE LINE KEYED NOTES

- 1 DISCONNECT EXISTING BOILER, EXTEND EXISTING CIRCUITING AND WIRING TO NEW BOILERS AS INDICATED ON NEW WORK PLANS.
- 2 PROVIDE CONNECTION TO NEW BOILER. PROVIDE NEW 20A, 3P BREAKER IN EXISTING SPACE.
- 3 DISCONNECT EXISTING PUMP
- 4 PROVIDE NEW 40A, 3P BREAKER IN EXISTING SPACE FOR NEW AC UNIT.
- 5 PROVIDE CONNECTION TO NEW CIRC. PUMP VFD. PROVIDE 20A FUSES IN EXISTING SWITCH.
- 6 PROVIDE CONNECTION TO NEW MAKE-UP AIR UNIT MUA-1. PROVIDE 60A FUSES IN EXISTING SWITCH.

FEEDER (AMPS)	COND. SIZE	FEEDER AND CONDUIT SIZES	
		3 WIRE WITH GROUND	4 WIRE WITH GROUND
20	12	1/2"C, 3#12 & 1#12 GRD.	1/2"C, 4#12 & 1#12 GRD.
30	10	3/4"C, 3#10 & 1#10 GRD.	3/4"C, 4#10 & 1#10 GRD.
50	8	3/4"C, 3#8 & 1#10 GRD.	1"C, 4#8 & 1#10 GRD.
60	6	1"C, 3#6 & 1#10 GRD.	1"C, 4#6 & 1#10 GRD.
80	4	1 1/4"C, 3#4 & 1#8 GRD.	1 1/4"C, 4#4 & 1#8 GRD.
100	3	1 1/4"C, 3#3 & 1#8 GRD.	1 1/4"C, 4#3 & 1#8 GRD.
125	1	1 1/2"C, 3#1 & 1#6 GRD.	1 1/2"C, 4#1 & 1#6 GRD.
150	1/0	1 1/2"C, 3#1/0 & 1#6 GRD.	1 1/2"C, 4#1/0 & 1#6 GRD.
175	2/0	1 1/2"C, 3#2/0 & 1#6 GRD.	2"C, 4#2/0 & 1#6 GRD.
200	3/0	2"C, 3#3/0 & 1#6 GRD.	2"C, 4#3/0 & 1#6 GRD.
225	4/0	2"C, 3#4/0 & 1#4 GRD.	2"C, 4#4/0 & 1#4 GRD.
250	1-250	2 1/2"C, 3#250 & 1#4 GRD.	2 1/2"C, 4#250 & 1#4 GRD.
300	1-350	2 1/2"C, 3#350 & 1#4 GRD.	2 1/2"C, 4#350 & 1#4 GRD.
400	1-600	4"C, 3#600 & 1#3 GRD.	4"C, 4#600 & 1#3 GRD.
500	2-250	(2) 2 1/2"C, 3#250 & 1#2 GRD.	(2) 3"C, 4#250 & 1#2 GRD.
600	2-350	(2) 3"C, 3#350 & 1#1 GRD.	(2) 3"C, 4#350 & 1#1 GRD.



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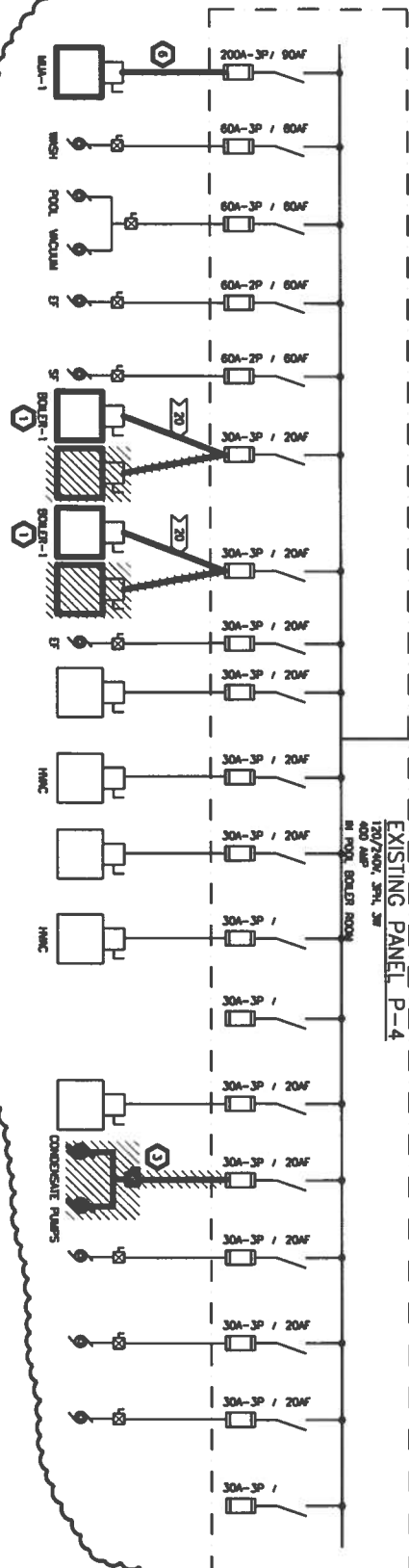
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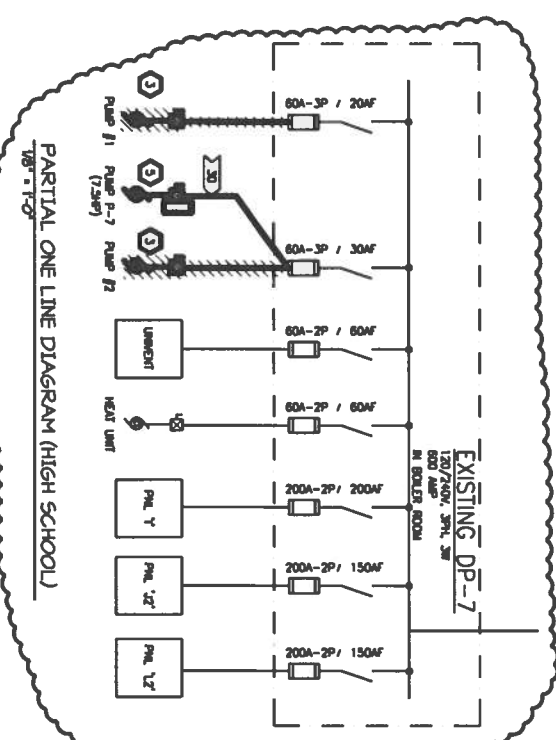
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PARTIAL ONE LINE DIAGRAM (HIGH SCHOOL)
1/8"=1'-0"



PARTIAL ONE LINE DIAGRAM (HIGH SCHOOL)
1/8"=1'-0"

RP-H

VOLT: 208/120

PHASE: 3

HERTZ: 60

NUMBER OF POLES: 30

SIZE (AMPS): 125 MLO

GROUND BUS: YES

ISOLATED GROUND: NO

BUSSING SIZE: 100A

NEUTRAL SIZE: 100%

MOUNTING: RECESSED

LOCATION:

CIRCUIT NUMBER	CKT BKR SIZE	DESCRIPTION	PHASE A	PHASE B	PHASE C
			VA		
1	50-3	P-4	5040		
3				5040	
5					5040
7	50-3	P-5	5040		
9				5040	
11					5040
13	20	NEW BOILER	1200		
15	20	WH-1		1200	
17	20	NEW SITE LIGHTING			
19	20	SPARE			
21	20	SPARE			
23	20	SPARE			
25	20	SPARE			
27	20	SPARE			
29	20	SPARE			
2		SPACE			
4		SPACE			
6		SPACE			
8		SPACE			
10		SPACE			
12		SPACE			
14		SPACE			
16		SPACE			
18		SPACE			
20		SPACE			
22		SPACE			
24		SPACE			
26		SPACE			
28		SPACE			
30		SPACE			
		SPARE	11280	11280	10080
TOTAL KVA (CONNECTED)			32.64		
TOTAL AMPS (CONNECTED)			90.71		



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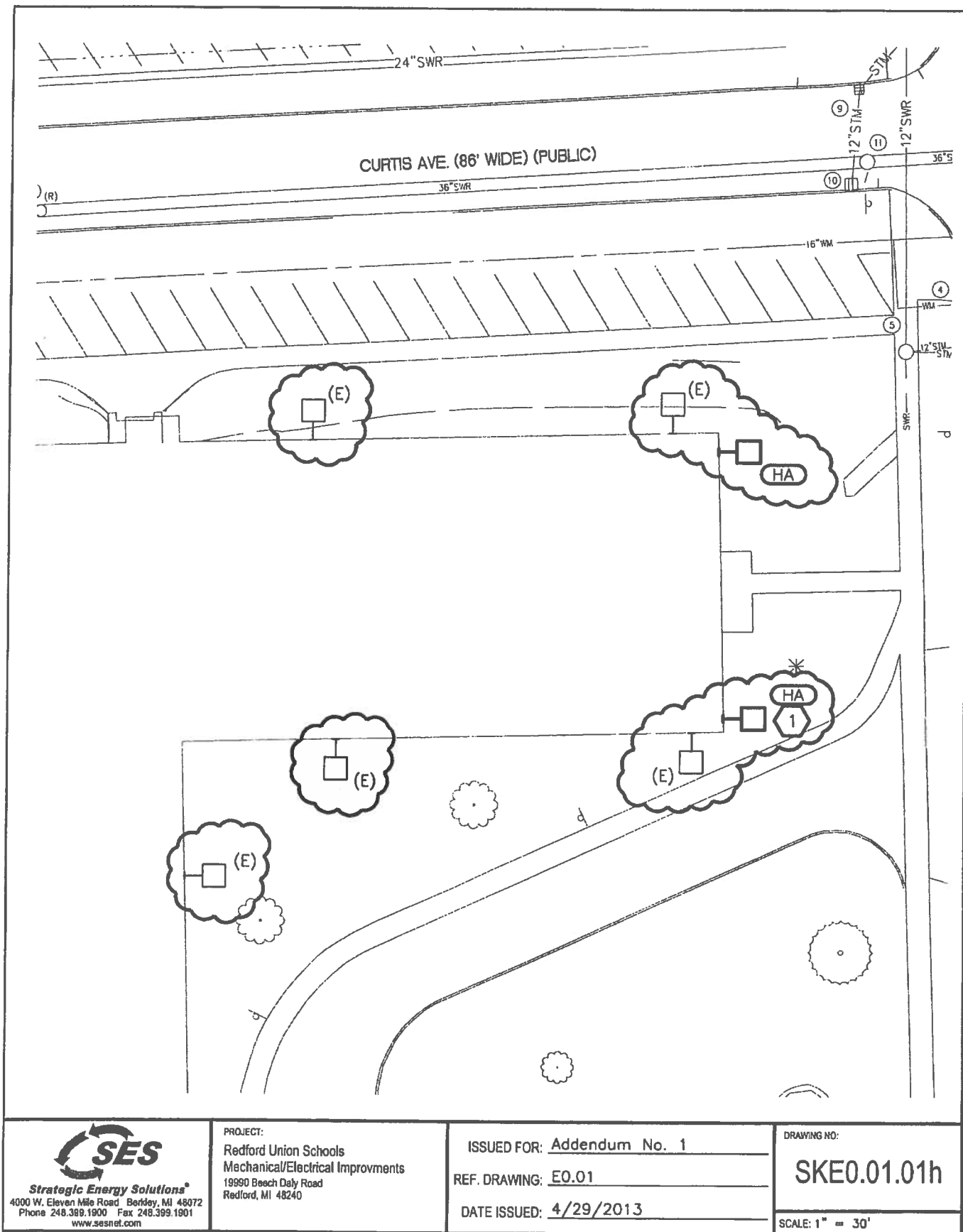
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DRAWING NO:

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SCALE: No Scale



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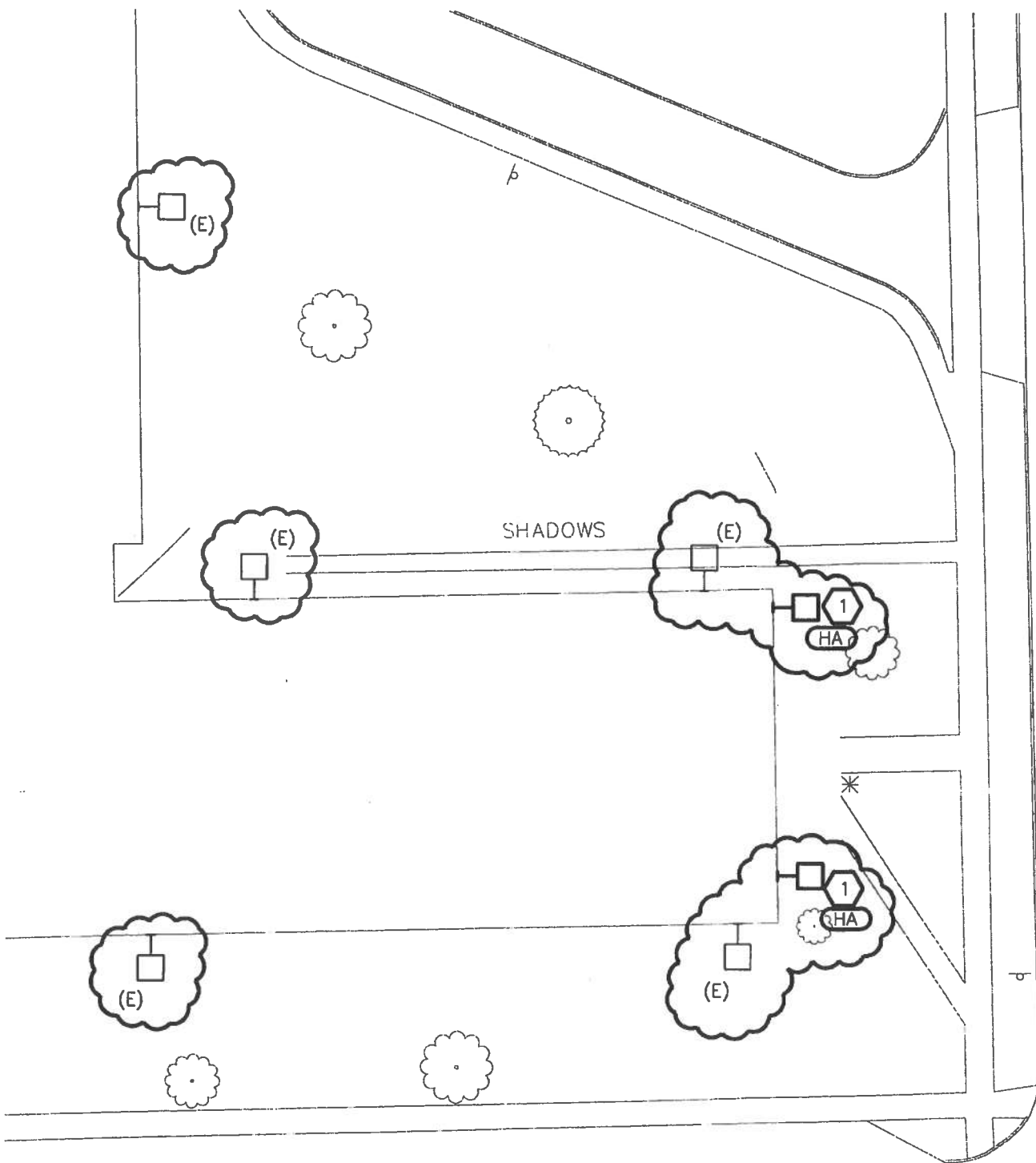
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DRAWING NO:

SKE0.01.01h

SCALE: 1" = 30'



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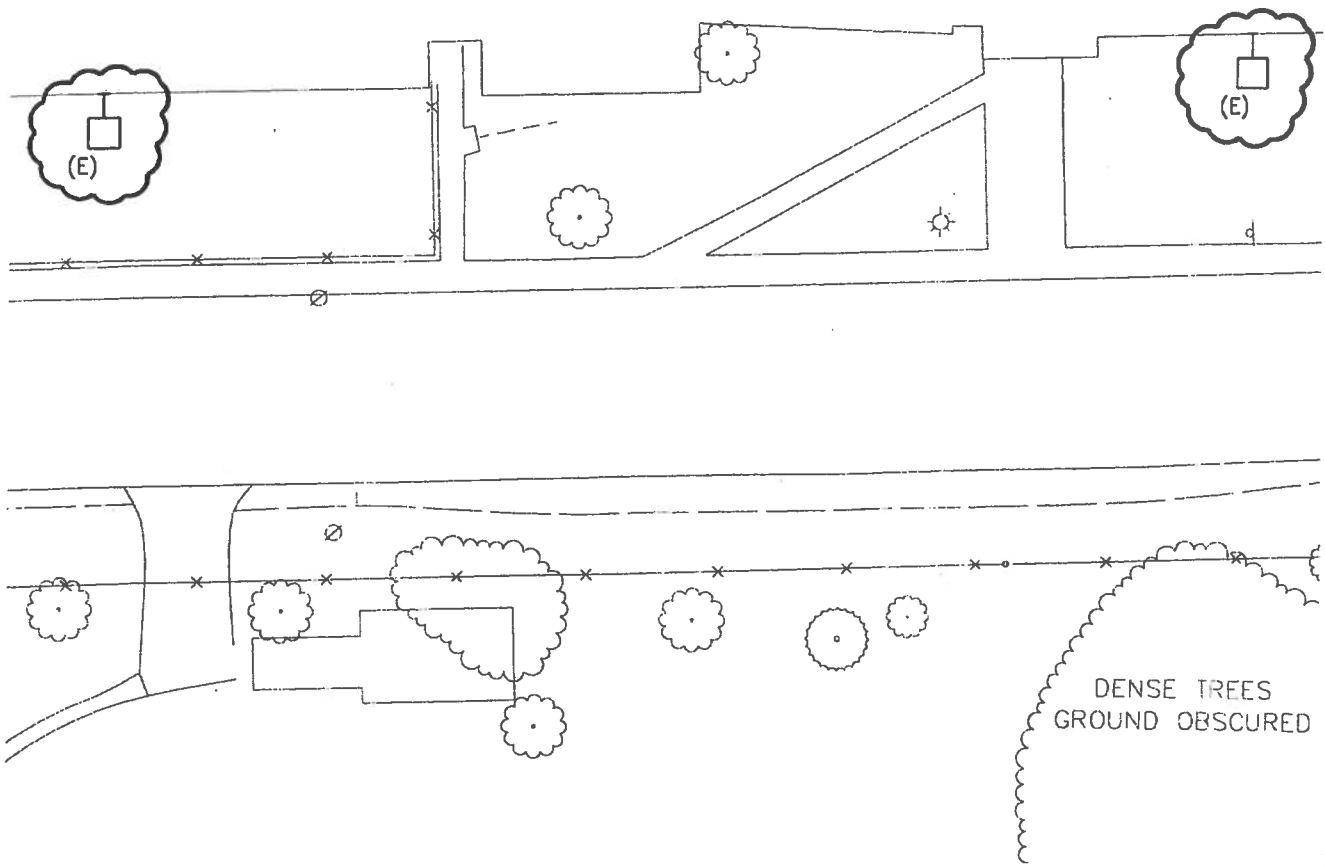
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DATE ISSUED: 4/29/2013

DRAWING NO:

SKE0.01.02h

SCALE: 1" = 30'



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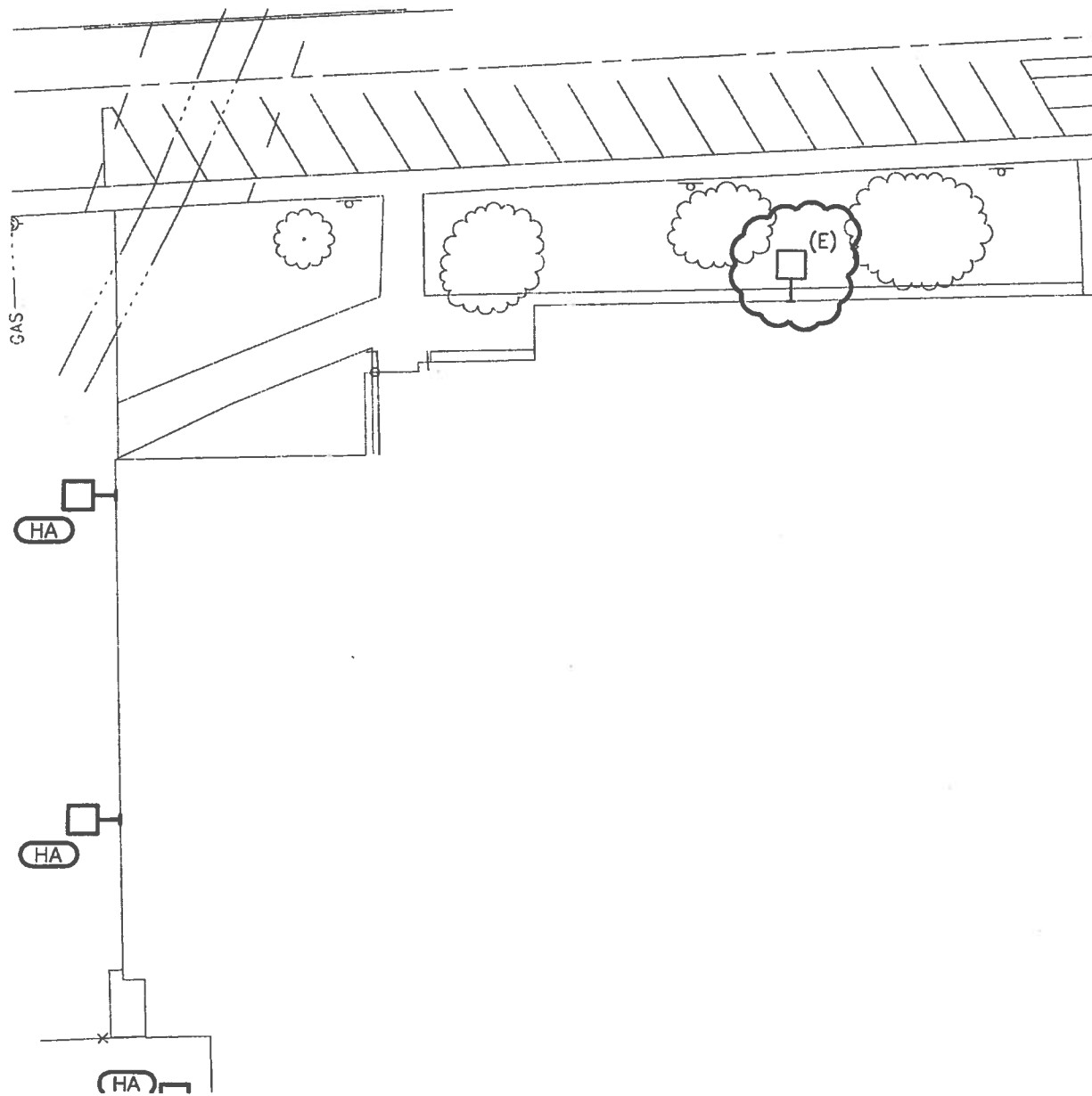
REF. DRAWING: E0.01

DATE ISSUED: 4/29/2013

DRAWING NO:

SKE0.01.03h

SCALE: 1" = 30'



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DRAWING NO:

SKE0.01.04h

SCALE: 1" = 30'

DEMOLITION KEYED NOTES

- 1 REMOVE EXISTING EXIT SIGN OR EMERGENCY LIGHT, REPLACE WITH NEW PER NEW WORK PLANS.
- 2 DISCONNECT AND REMOVE EXISTING BUILDING MOUNTED EXTERIOR LIGHTING. PROTECT EXISTING CIRCUITING FOR INSTALLATION OF NEW FIXTURES AT SAME LOCATION. SEE NEW WORK PLANS FOR ADDITIONAL INFORMATION.
- 3 REMOVE AND REINSTALL LIGHT FIXTURES IN THIS AREA AS NECESSARY TO PERMIT INSTALLATION OF MECHANICAL PIPING. COORDINATE WITH MECHANICAL CONTRACTOR.
- 4 DISCONNECT EXISTING BOILER AND REMOVE DISCONNECT, CONDUIT AND WIRE COMPLETE BACK TO SOURCE.
- 5 DISCONNECT EXISTING CIRC. PUMPS AND REMOVE DISCONNECT, CONDUIT AND WIRE COMPLETE BACK TO SOURCE. REUSE EXISTING CIRCUIT FOR NEW LOADS.
- 6 DISCONNECT AND REMOVE WIRING TO MECHANICAL ROOFTOP UNIT, REFER TO NEW WORK PLANS.
- 7 REPLACE PANELBOARD "Y" IN EXISTING LOCATION. REFER TO NEW WORK PLANS FOR DETAILS.
- 8 REPLACE PANELBOARD "GA" IN EXISTING LOCATION. REFER TO NEW WORK PLANS FOR DETAILS.
- 9 REPLACE PANELBOARD "GB" IN EXISTING LOCATION. REFER TO NEW WORK PLANS FOR DETAILS.
- 10 REPLACE PANELBOARD "D" IN EXISTING LOCATION. REFER TO NEW WORK PLANS FOR DETAILS.
- 11 REPLACE PANELBOARD "A" IN EXISTING LOCATION. REFER TO NEW WORK PLANS FOR DETAILS.
- 12 REMOVE BOILERS COMPLETE AND BACK TO SOURCE. SALVAGE EXISTING CIRCUITING FOR NEW LOADS PER NEW WORK PLANS.
- 13 EXISTING PUMPS TO BE DISCONNECTED AND RE-CONNECTED UPON INSTALLATION OF NEW MOTORS. REFER TO NEW WORK PLANS.



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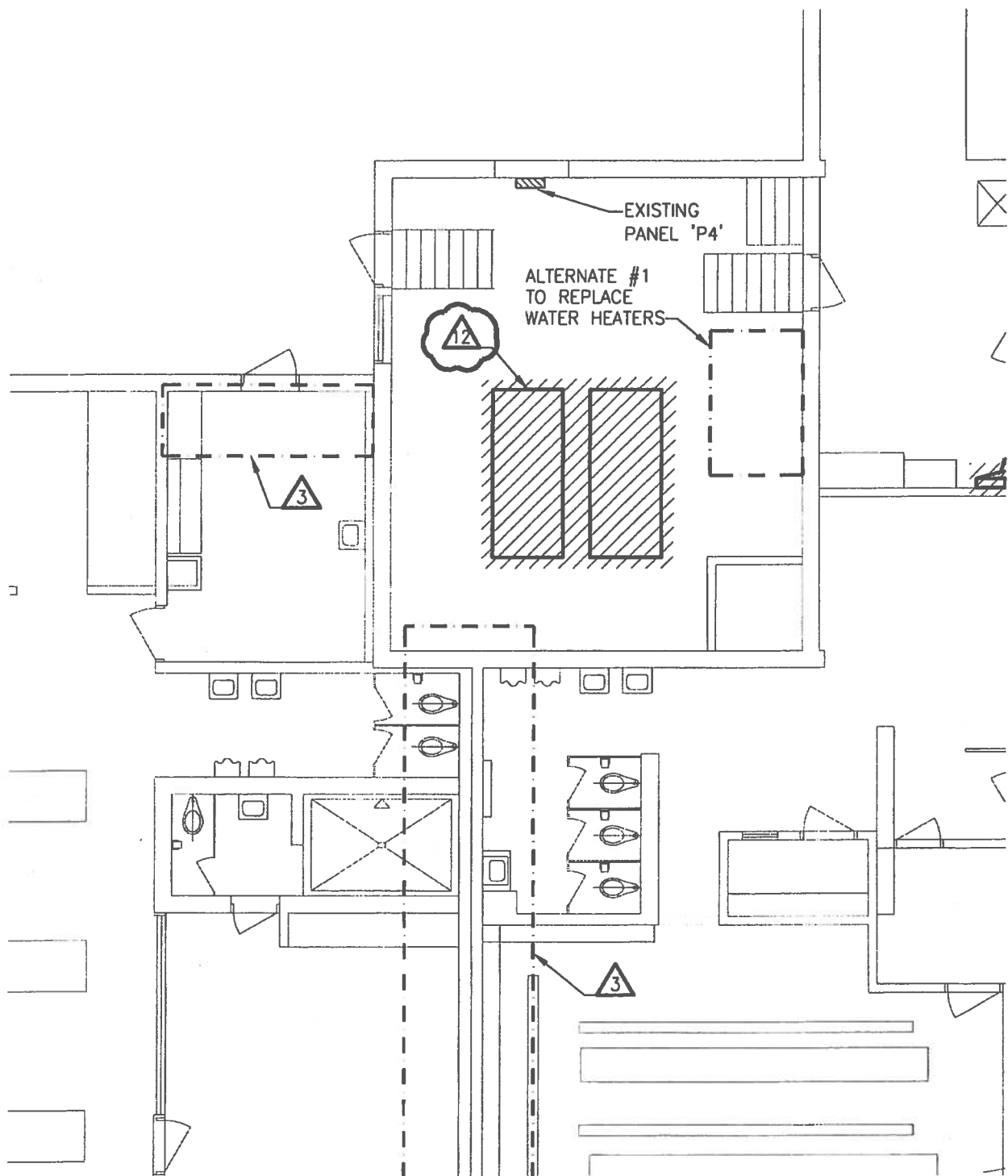
PROJECT:
Redford Union Schools
Mechanical/Electrical Improvements
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ISSUED FOR: Addendum No. 1
REF. DRAWING: ED1.11h - ED1.16h
DATE ISSUED: 4/29/2013

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



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

LIGHTING KEYED NOTES

- (L1) REMOVE AND REINSTALL LIGHT FIXTURES IN THIS AREA AS NECESSARY TO PERMIT INSTALLATION OF MECHANICAL PIPING. COORDINATE WITH MECHANICAL CONTRACTOR.
- (L2) NEW TROUBLE LIGHT WITH RETRACTABLE CORD, EXTEND EXISTING 120V CIRCUIT FROM LOCAL LIGHTING CIRCUITING. EXACT SPECIFICATIONS BY OTHERS.
- (L3) RETROFIT EXISTING LIGHT FIXTURE WITH 1100 LUMEN EMERGENCY BATTERY PACK, CONNECT SUCH THAT FIXTURE OPERATES NORMALLY WITH SWITCH AND ACTS AS EMERGENCY FIXTURE UPON LOSS OF POWER.
- (L4) NEW LIGHT FIXTURE IN PLACE OF EXISTING, REUSE EXISTING CIRCUITING AND CONTROLS. PATCH EXISTING CEILING AS NECESSARY.

POWER KEYED NOTES

- (P1) NOT USED.
- (P2) CONNECT PUMP TO EXISTING PANEL DP-7. PROVIDE 30A FUSES IN EXISTING 60A, 3P SWITCH. SEE ELECTRICAL ONE LINE DIAGRAM SHEET E4.00.
- (P3) CONNECT TO SPARE BREAKER IN EXISTING PANEL.
- (P4) NOT USED.
- (P5) NOT USED.
- (P6) NOT USED.
- (P7) INSTALL NEW 200A, 120/240V, 1 PH, 3W, 42 CIRCUIT PANELBOARD "Y" IN EXISTING LOCATION. PROVIDE BREAKERS AS NECESSARY TO RE-CONNECT EXISTING LOADS.
- (P8) NOT USED.
- (P9) INSTALL NEW 200A, 120/240V, 1 PH, 3W, 42 CIRCUIT PANELBOARD "P-2" IN EXISTING LOCATION. PROVIDE (13) 15A-3P BREAKERS AND (1) 20A-3P BREAKER TO RE-CONNECT TO EXISTING LOADS.
- (P10) INSTALL NEW 100A, 120/240V, 3 PH, 3W, 42 CIRCUIT PANELBOARD "CB" IN EXISTING LOCATION. PROVIDE (42) 20A-1P BREAKERS TO RE-CONNECT TO EXISTING LOADS. PROVIDE WITH 100A MCB.
- (P11) PROVIDE (2) LIGHTING CONTACTORS WITH HOA FOR EXISTING GYM LIGHT CIRCUITING.



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- P12 INSTALL NEW 200A 120/240V 1 PH, 3W, 3Ø CIRCUIT PANELBOARD 'B' IN EXISTING LOCATION. PROVIDE (30) 20A-1P BREAKERS TO RE-CONNECT TO EXISTING LOADS.
- P13 INSTALL NEW 200A 120/240V 1 PH, 3W, 3Ø CIRCUIT PANELBOARD 'A' IN EXISTING LOCATION. PROVIDE (30) 20A-1P BREAKERS TO RE-CONNECT TO EXISTING LOADS.
- P14 CONNECT TO EXISTING 30A, 3P SWITCH IN PANEL 'P4'. SEE ELECTRICAL ONE-LINE DIAGRAM SHEET E4.00 FOR MORE INFORMATION.
- P15 REUSE EXISTING 120V CIRCUITING FOR NEW MECHANICAL EQUIPMENT.
- P16 CONNECT TO SPARE 200A, 3P SWITCH IN EXISTING DISTRIBUTION PANEL DP-4. PROVIDE NEW 60A FUSES. SEE ELECTRICAL ONE-LINE DIAGRAM SHEET E3.00 FOR MORE INFORMATION.
- P17 PROVIDE FIRE ALARM SYSTEM CONNECTION TO FACTORY INSTALLED SMOKE DETECTOR ON MAKE-UP AIR UNIT MUA-1.
- P18 PROVIDE POWER TO TEMPERATURE CONTROL UNIT TRANSFORMER. CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT.
- P19 NEW FIRE ALARM DEVICE, CONNECT TO NEAREST DEVICE CIRCUIT. NEW DEVICES SHALL BE COMPATIBLE WITH EXISTING SIMPLEX SYSTEM.
- P20 DISCONNECT AND RE-CONNECT EXISTING MECHANICAL ROOFTOP UNIT. CONNECT NEW UNIT TO EXISTING CIRCUIT, PROVIDE NEW DISCONNECT SWITCH IN PLACE OF EXISTING. ALL WIRING BACK TO SOURCE SHALL BE NEW.
- P21 VFD PROVIDED AND INSTALLED BY MECHANICAL TRADES, ENERGIZED BY E.C.
- P22 REUSE EXISTING 240V-3P 20A CIRCUIT FROM DEMOLISHED PUMPS IN SAME ROOM FOR NEW LOAD.
- P23 REUSE EXISTING 240V-3P 30A CIRCUIT FROM DEMOLISHED PUMPS IN SAME ROOM FOR NEW LOAD.
- P24 DISCONNECT AND RE-CONNECT EXISTING PUMPS, NEW VFD BY MECHANICAL.

ALL NEW 'EM' AND 'X' TYPE
FIXTURES SHALL BE DIRECT
REPLACEMENT OF EXISTING
FIXTURE IN SIMILAR LOCATION.
EXTEND EXISTING CONDUIT
AND WIRING AS REQUIRED.



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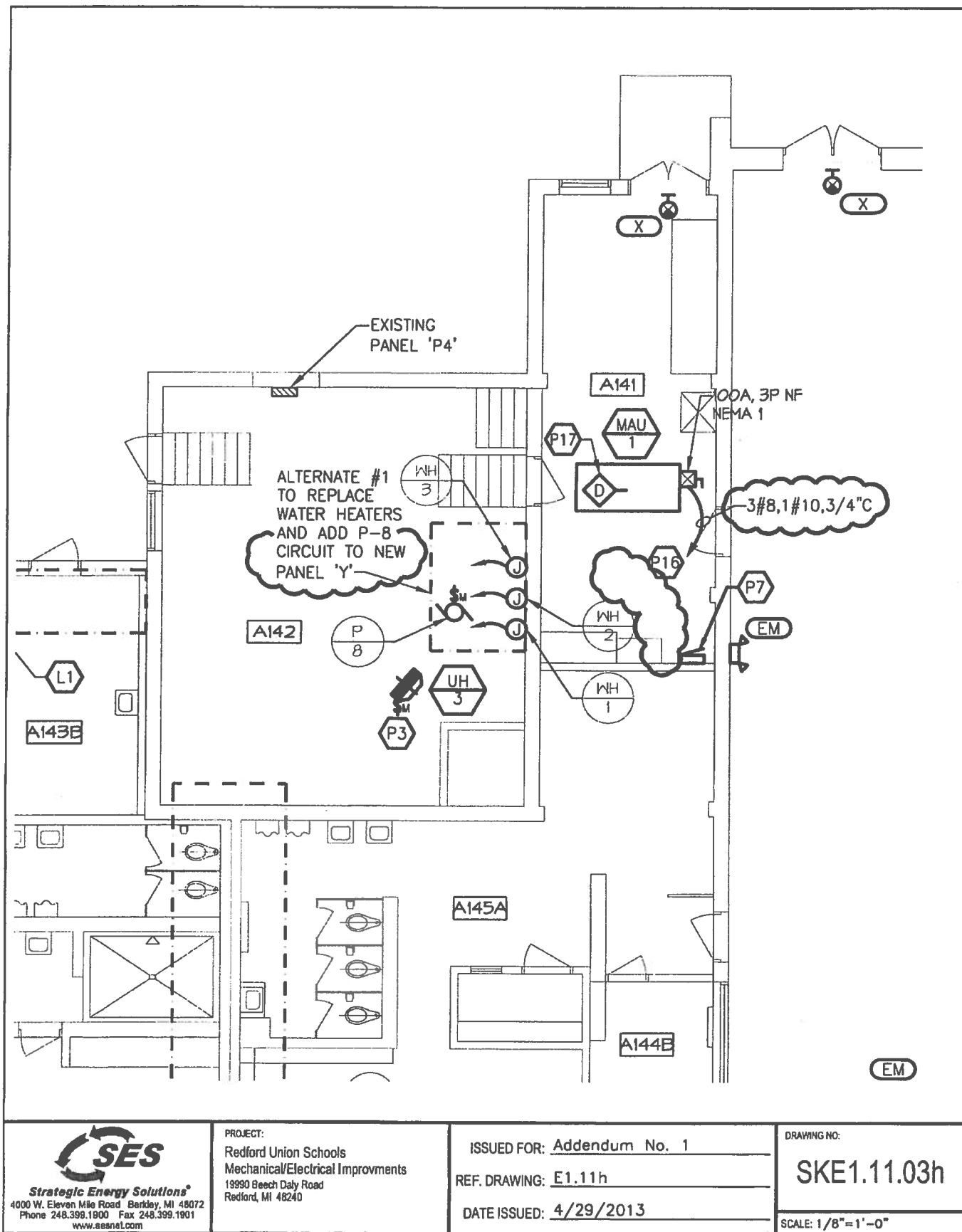
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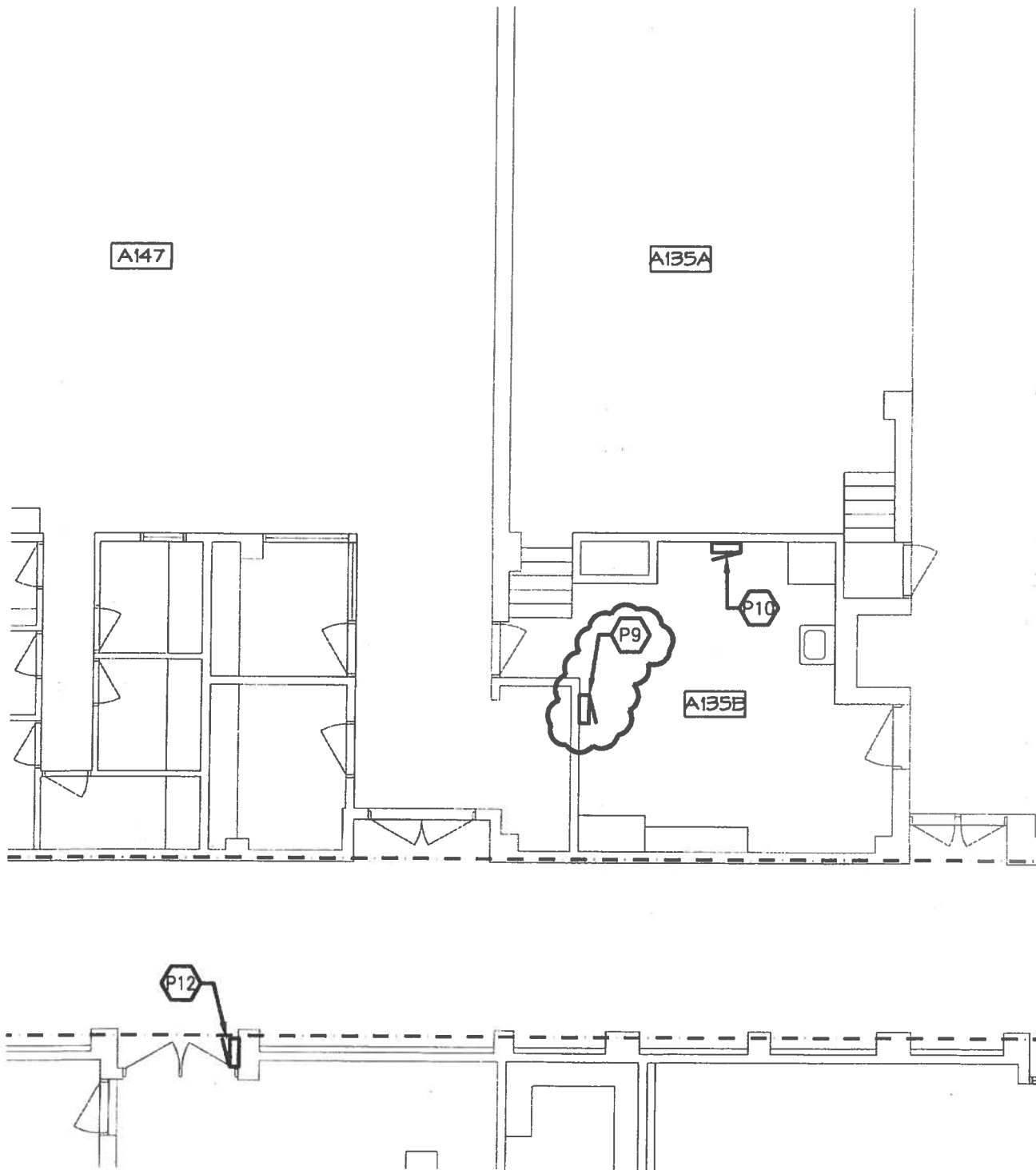
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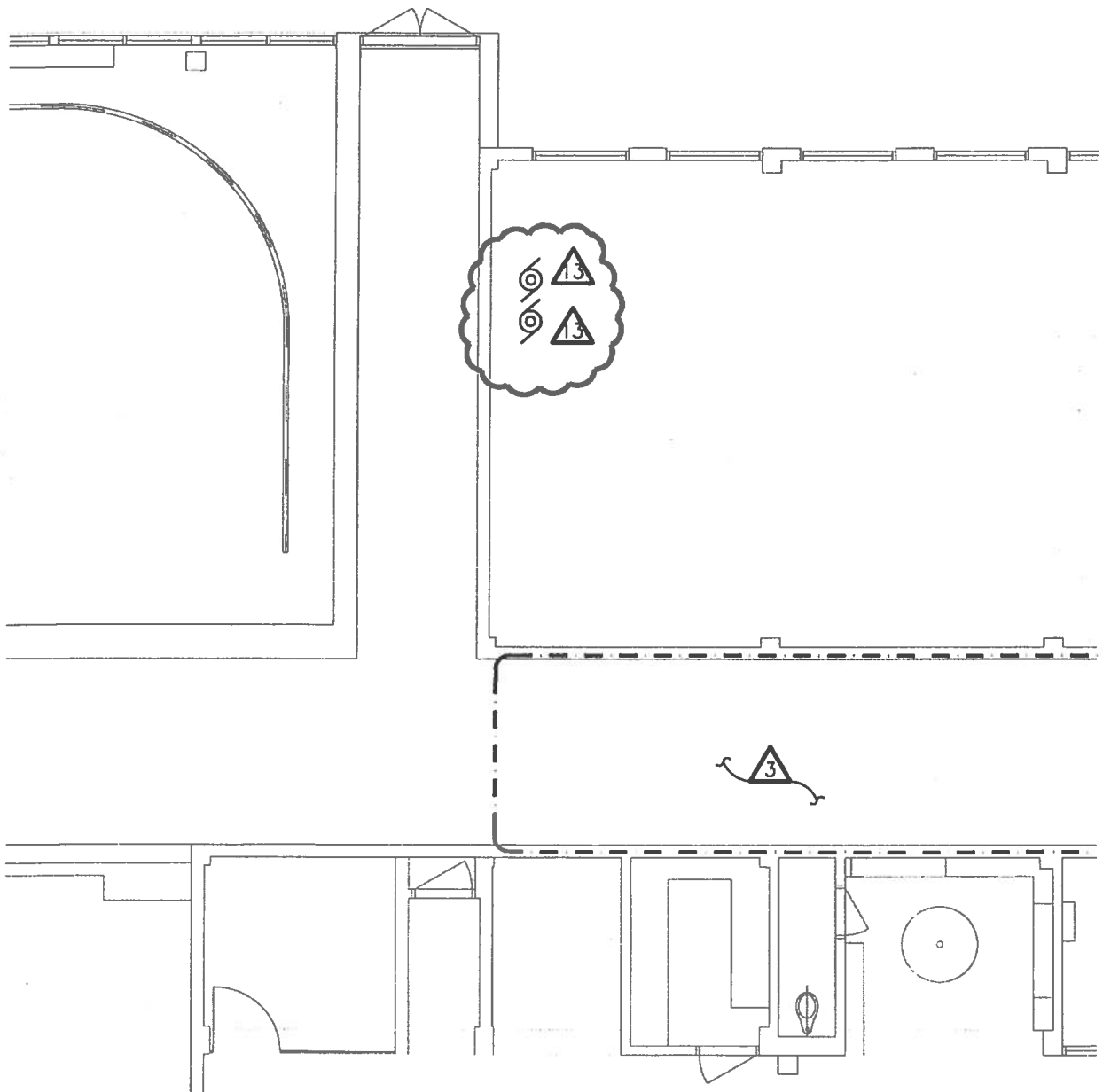
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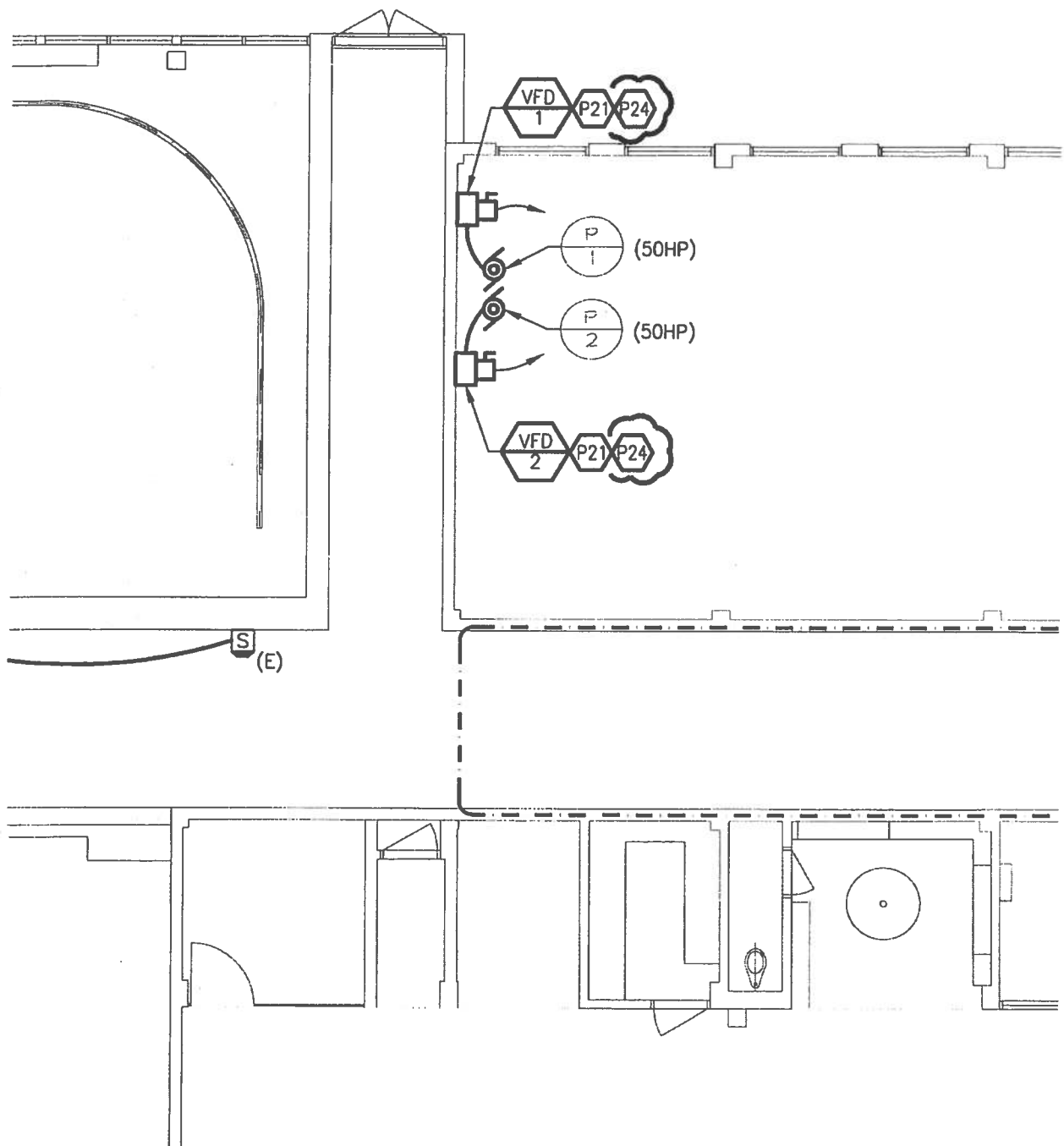
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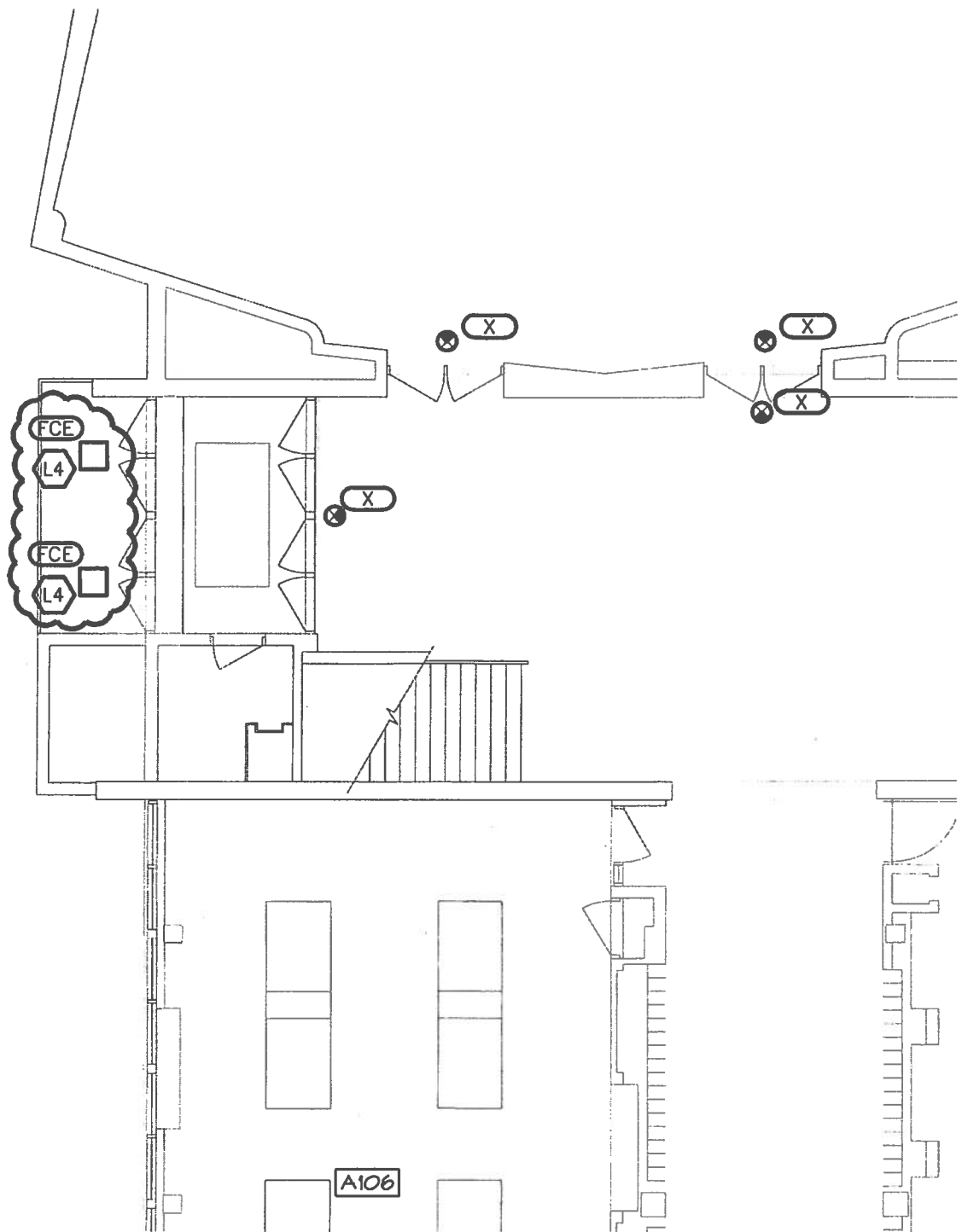
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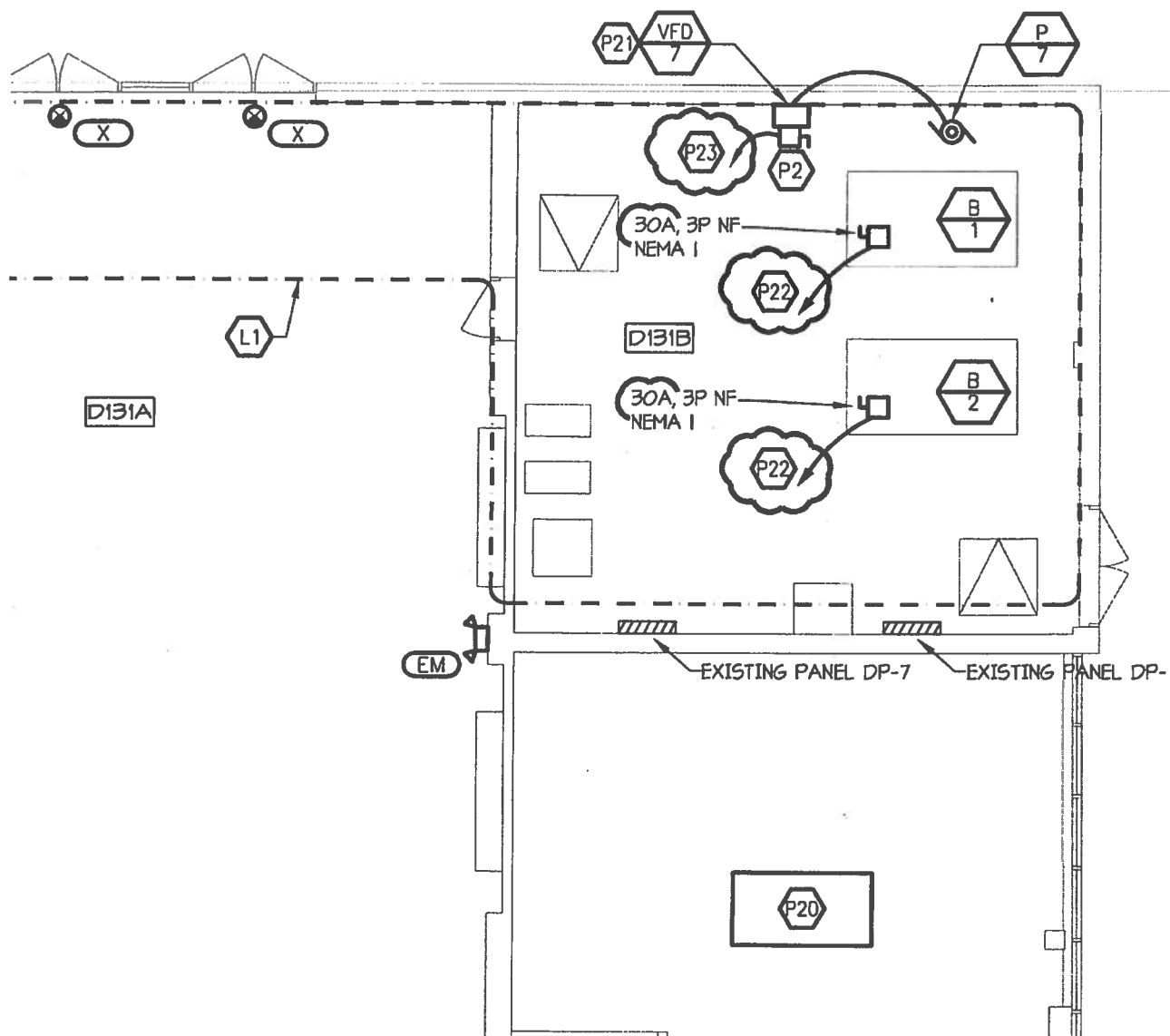
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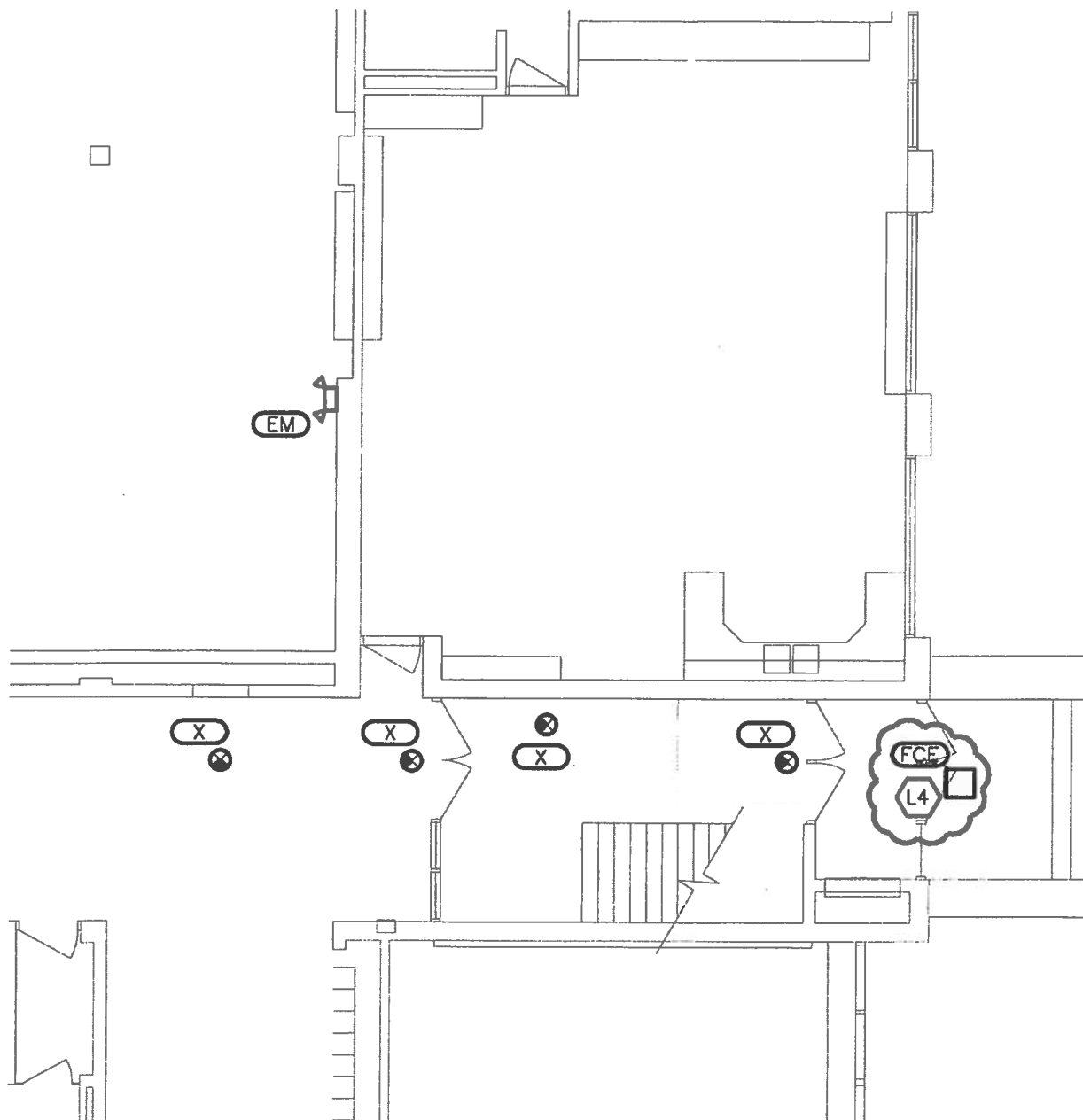
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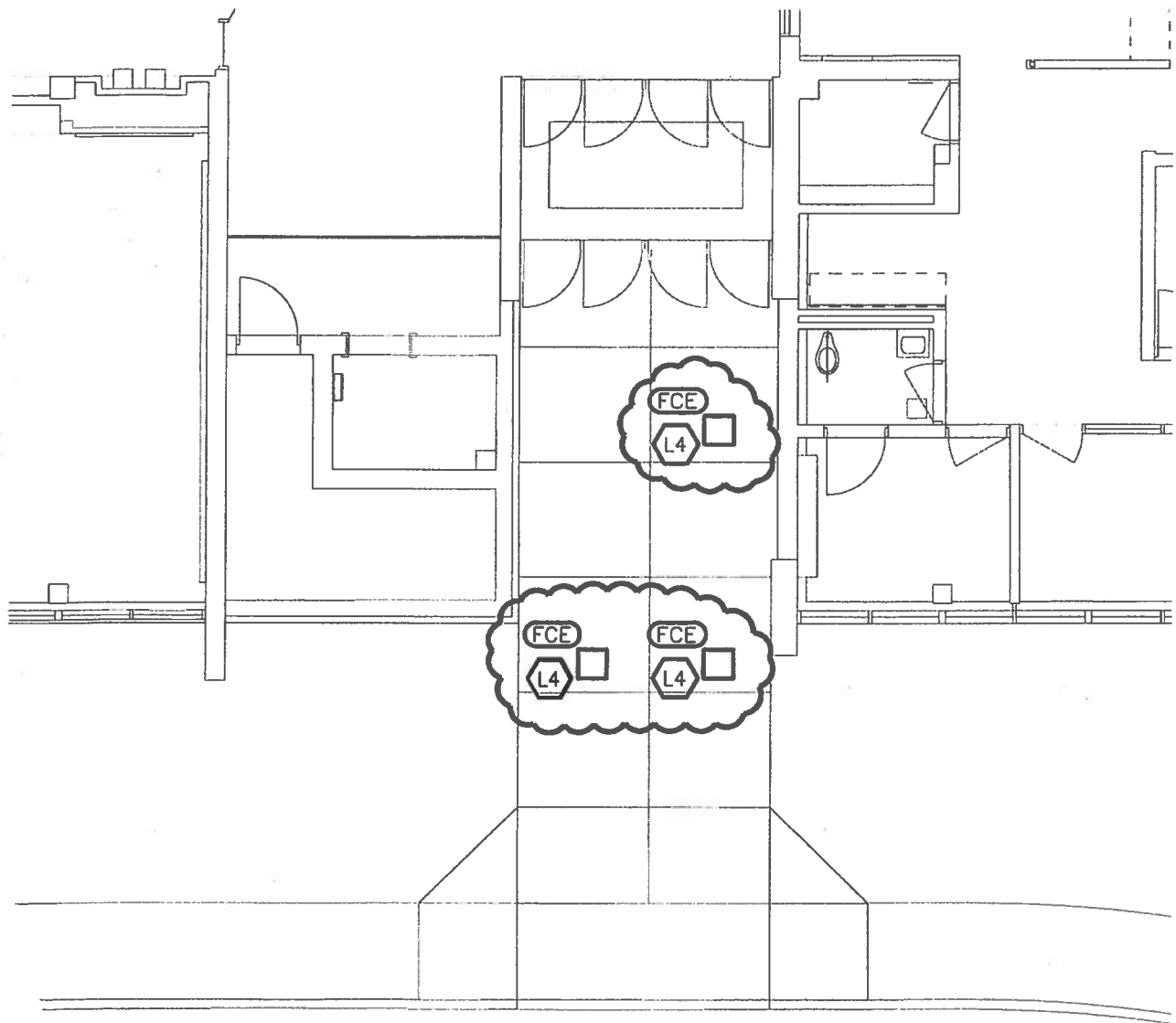
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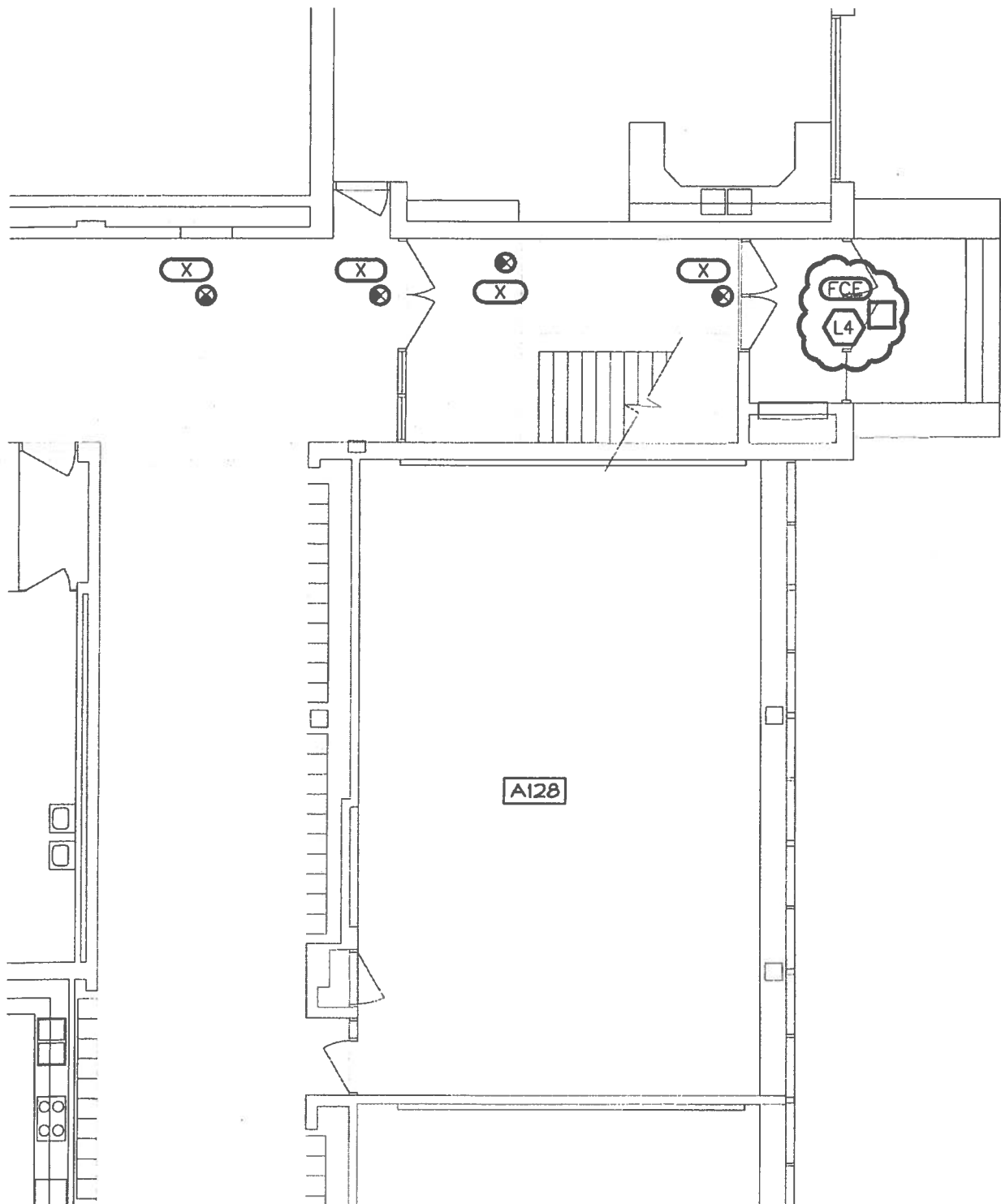
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SCALE: 1/8"=1'-0"

LIGHTING KEYED NOTES

L1

CONTRACTOR TO INCLUDE THE RELOCATION OF TWO EXISTING LIGHT FIXTURES IN RELATION TO THE INSTALLATION OF THE NEW ACU.

POWER KEYED NOTES

P1

CONNECT NEW BOILER TO EXISTING PANEL DP—PROVIDE ELECTRICAL INTERCONNECTION BETWEEN ROOF MOUNTED CU AND CEILING MOUNTED ACU PER MANUFACTURERS INSTRUCTIONS.



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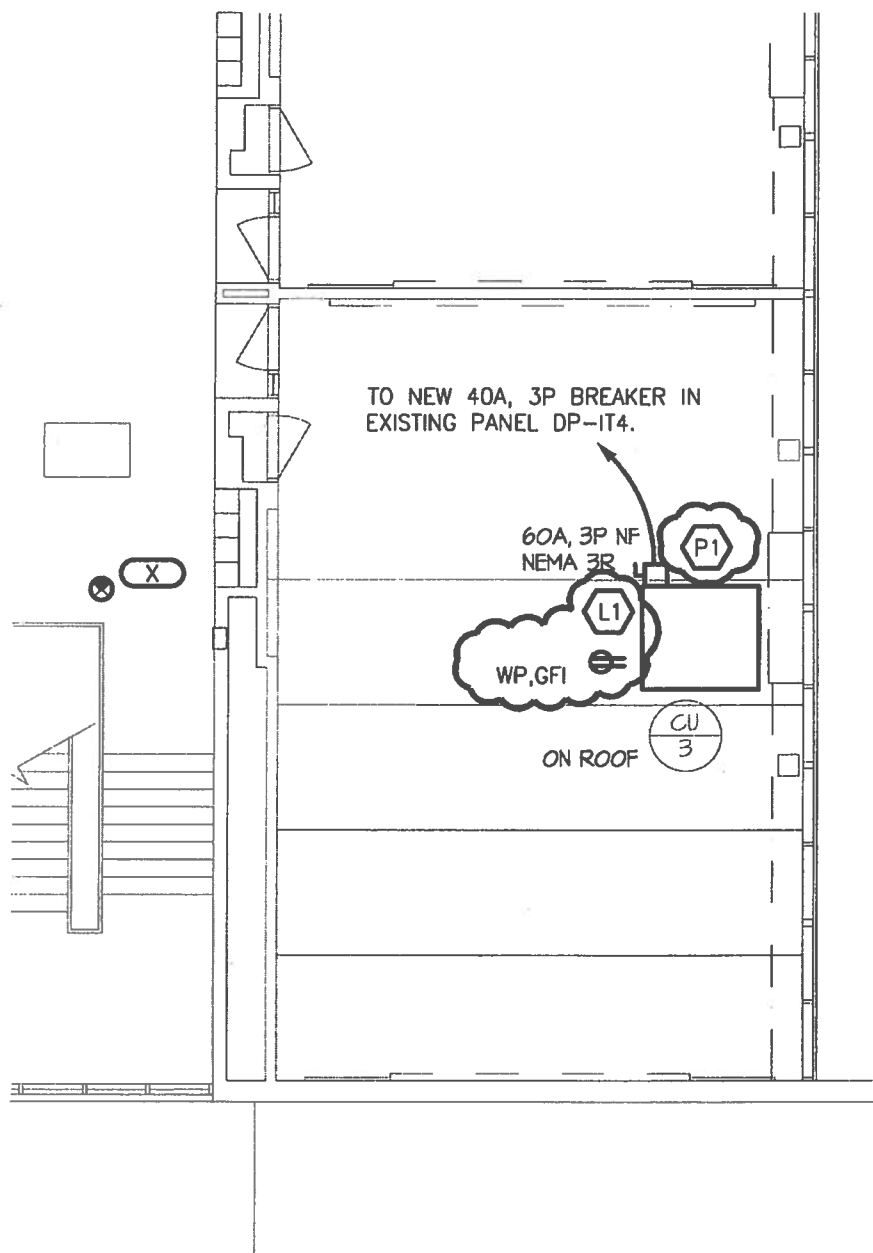
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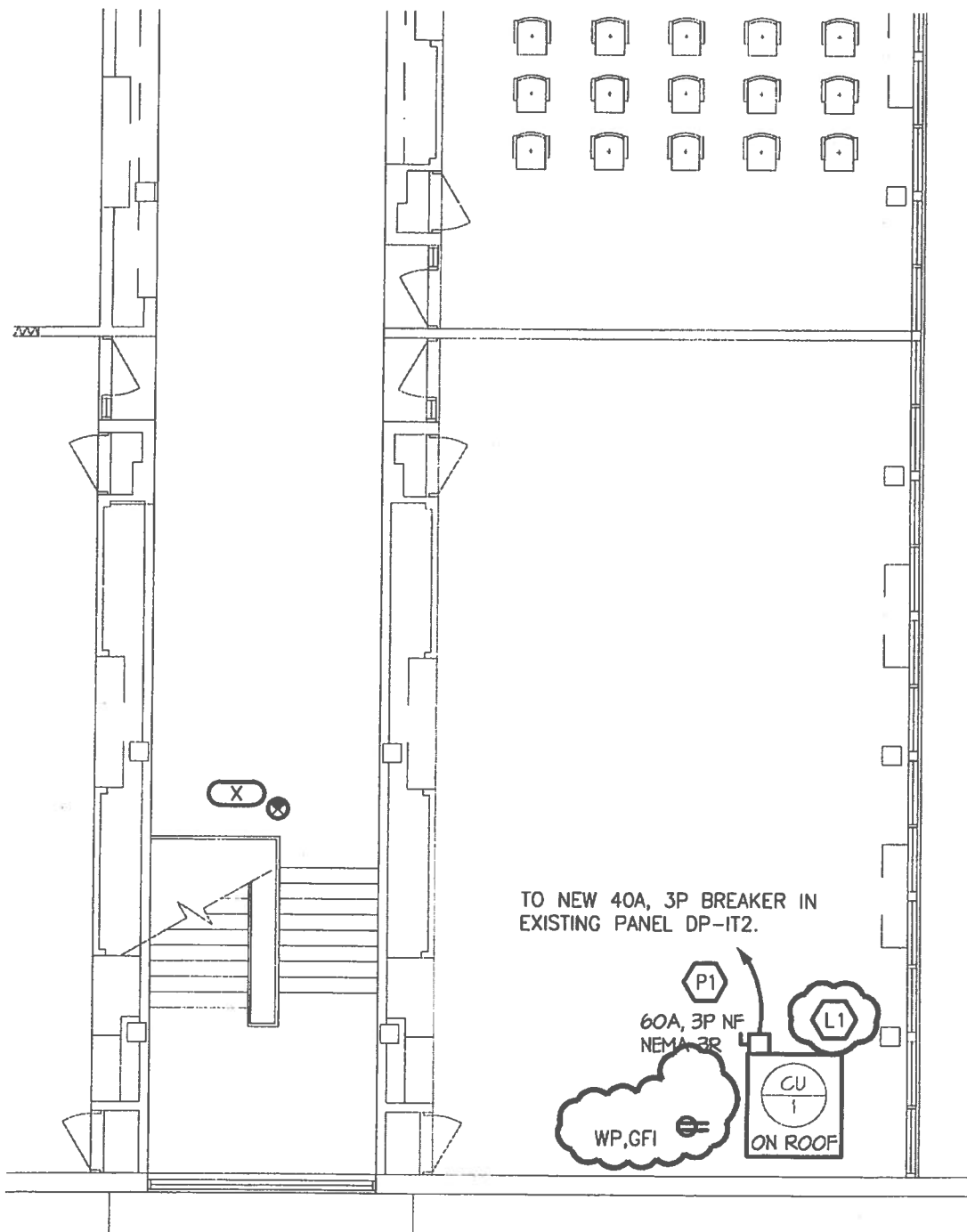
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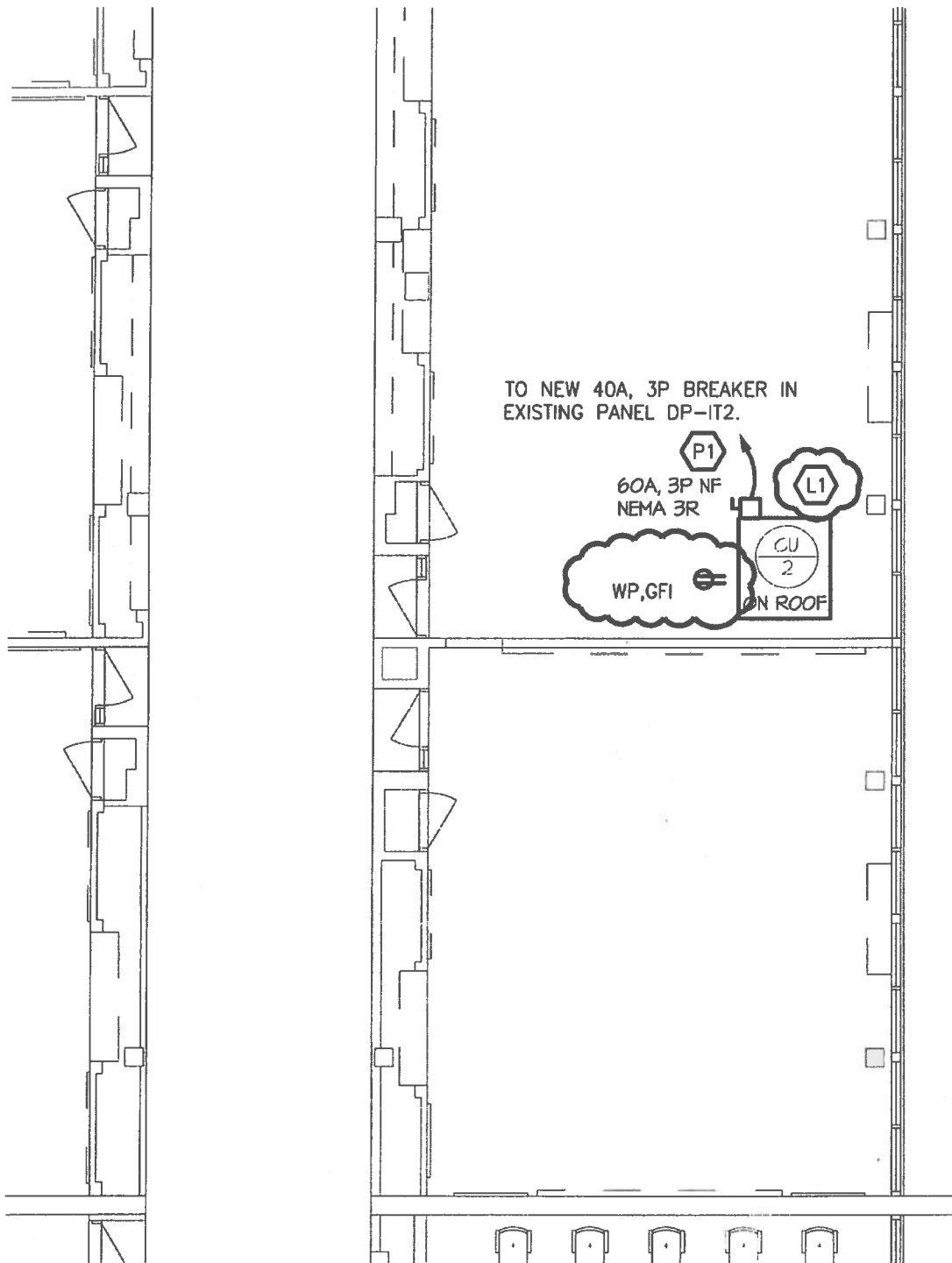
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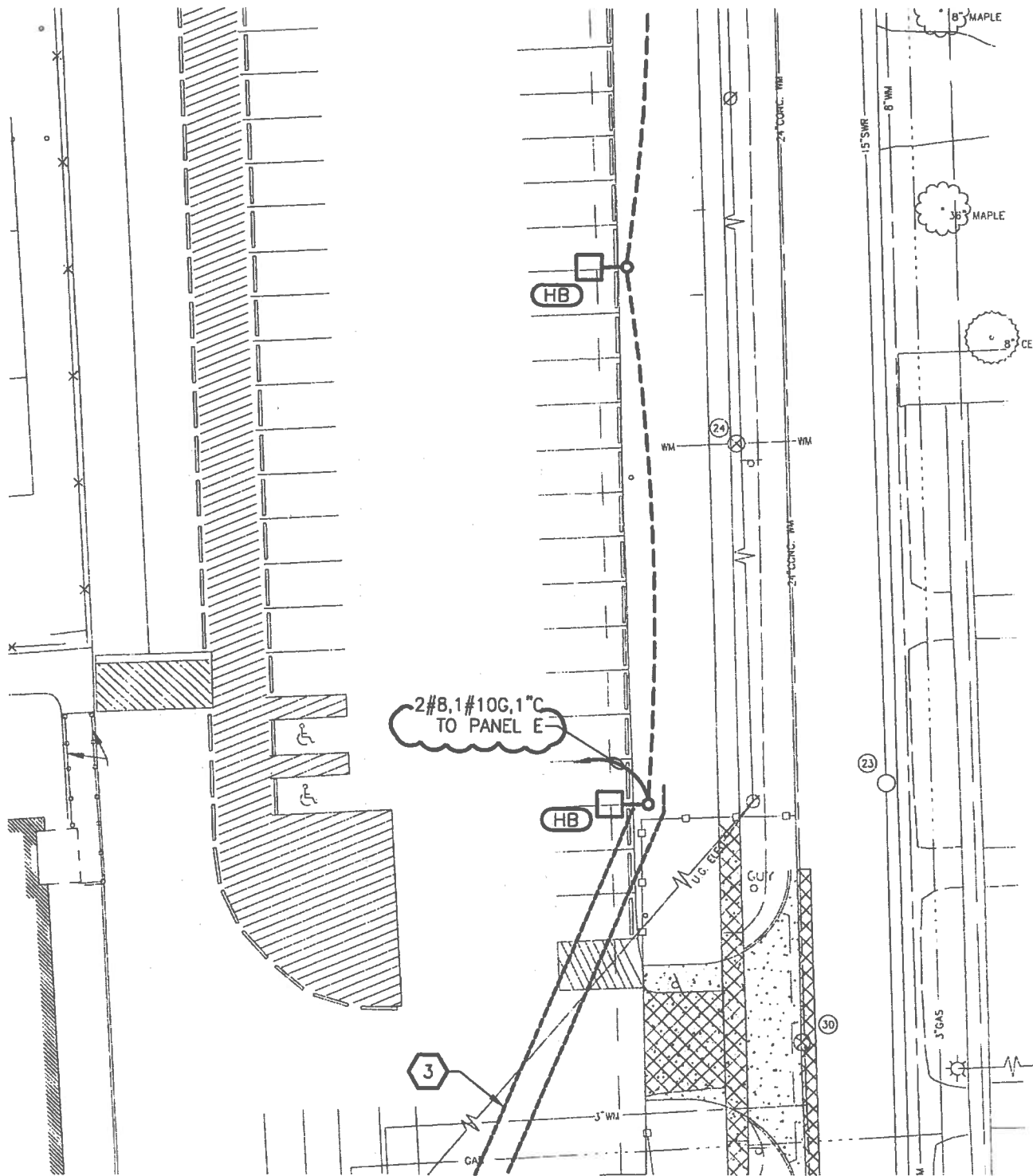
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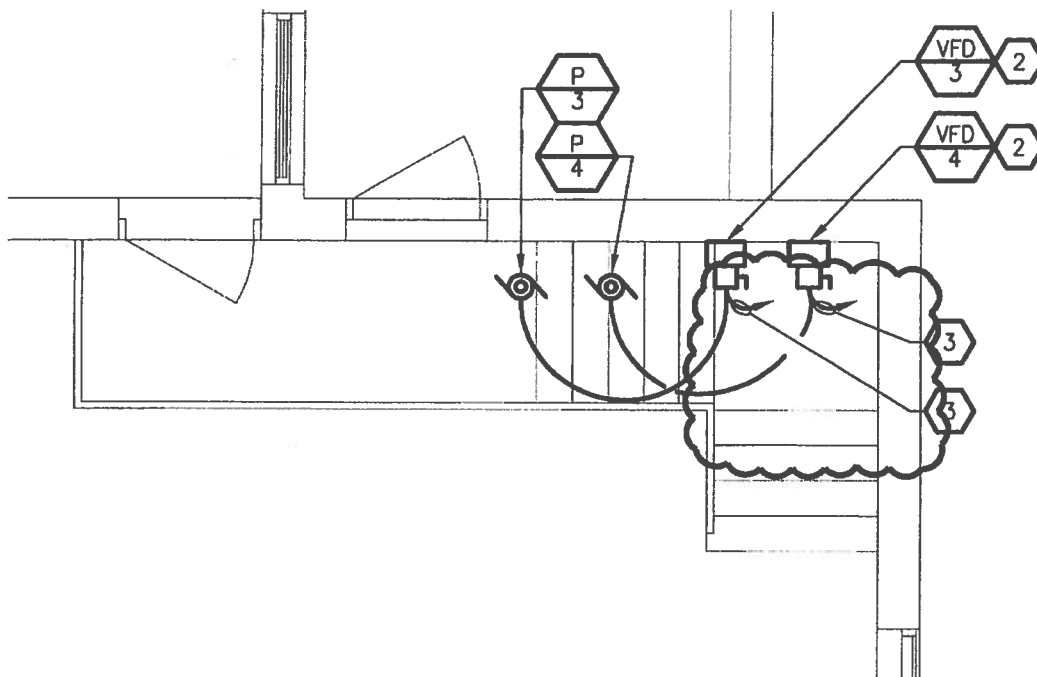
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SCALE: 1" = 30'

LIGHTING KEYED NOTES

- 1 REPLACE EXISTING LIGHT FIXTURE WITH NEW TYPE FIXTURE IN SAME LOCATION. RE-USE EXISTING CIRCUITING.
- 2 VFD PROVIDED AND INSTALLED BY MECHANICAL TRADES, ENERGIZED BY E.C.
- 3 REUSE EXISTING 240V-3P CIRCUIT FROM DEMOLISHED PUMP WITHIN BOILER ROOM. PROVIDE NEW CONDUIT AND WIRE BACK TO SOURCE.
- 4 RETROFIT EXISTING LIGHT FIXTURE WITH 1400 LUMEN EMERGENCY BATTERY PACK, CONNECT SUCH THAT FIXTURE OPERATES NORMALLY WITH SWITCH AND ACTS AS EMERGENCY FIXTURE UPON LOSS OF POWER.



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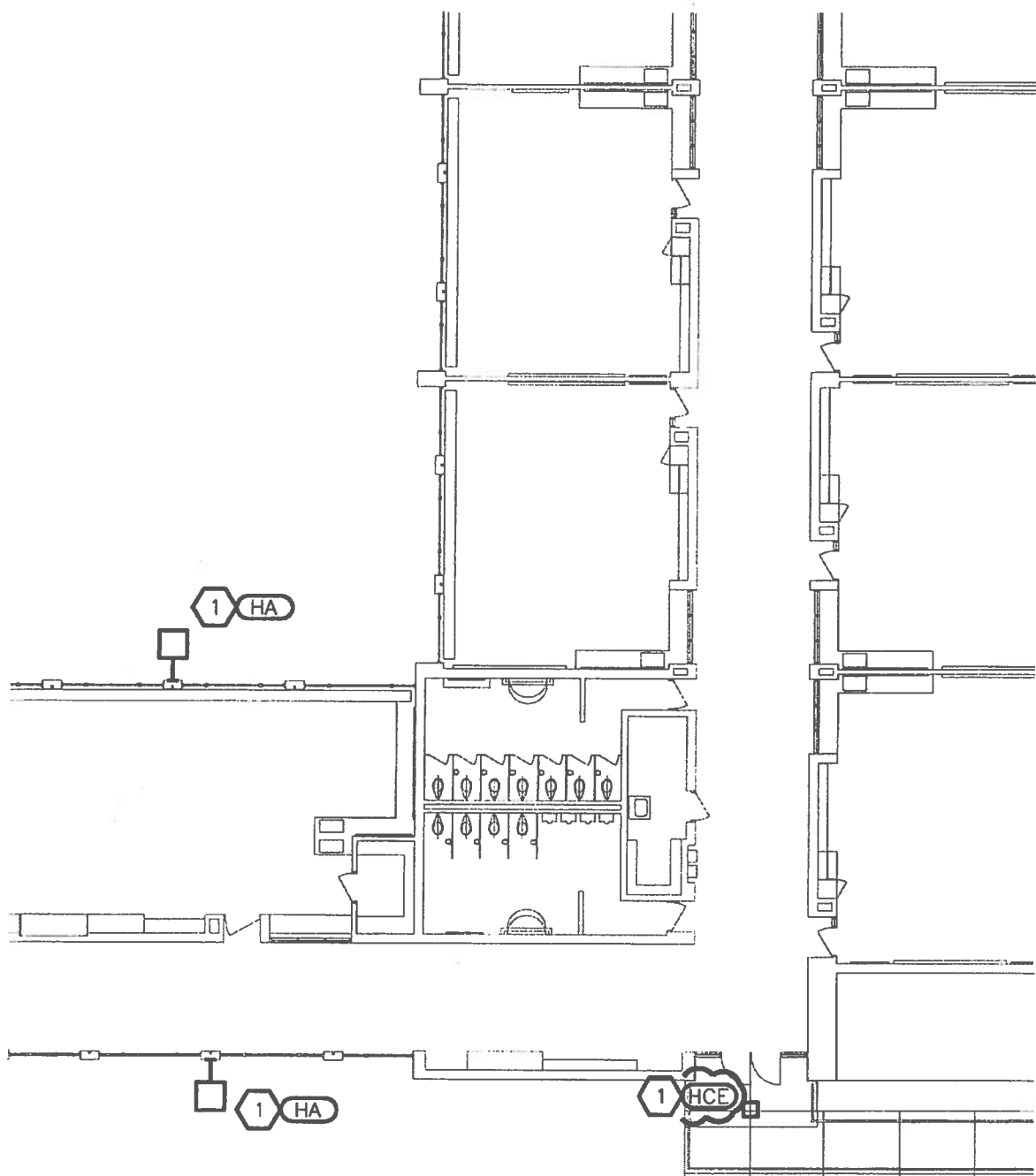
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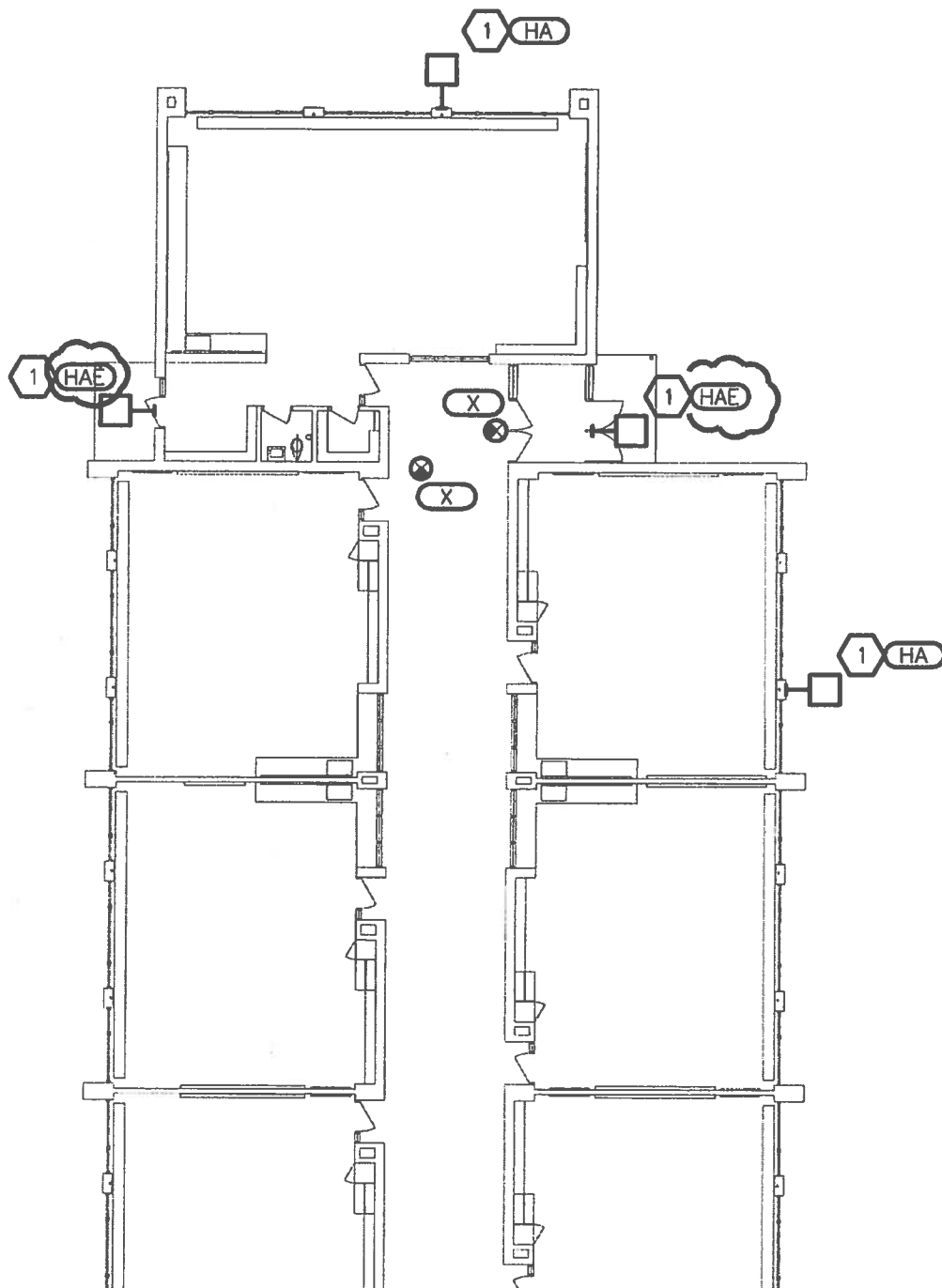
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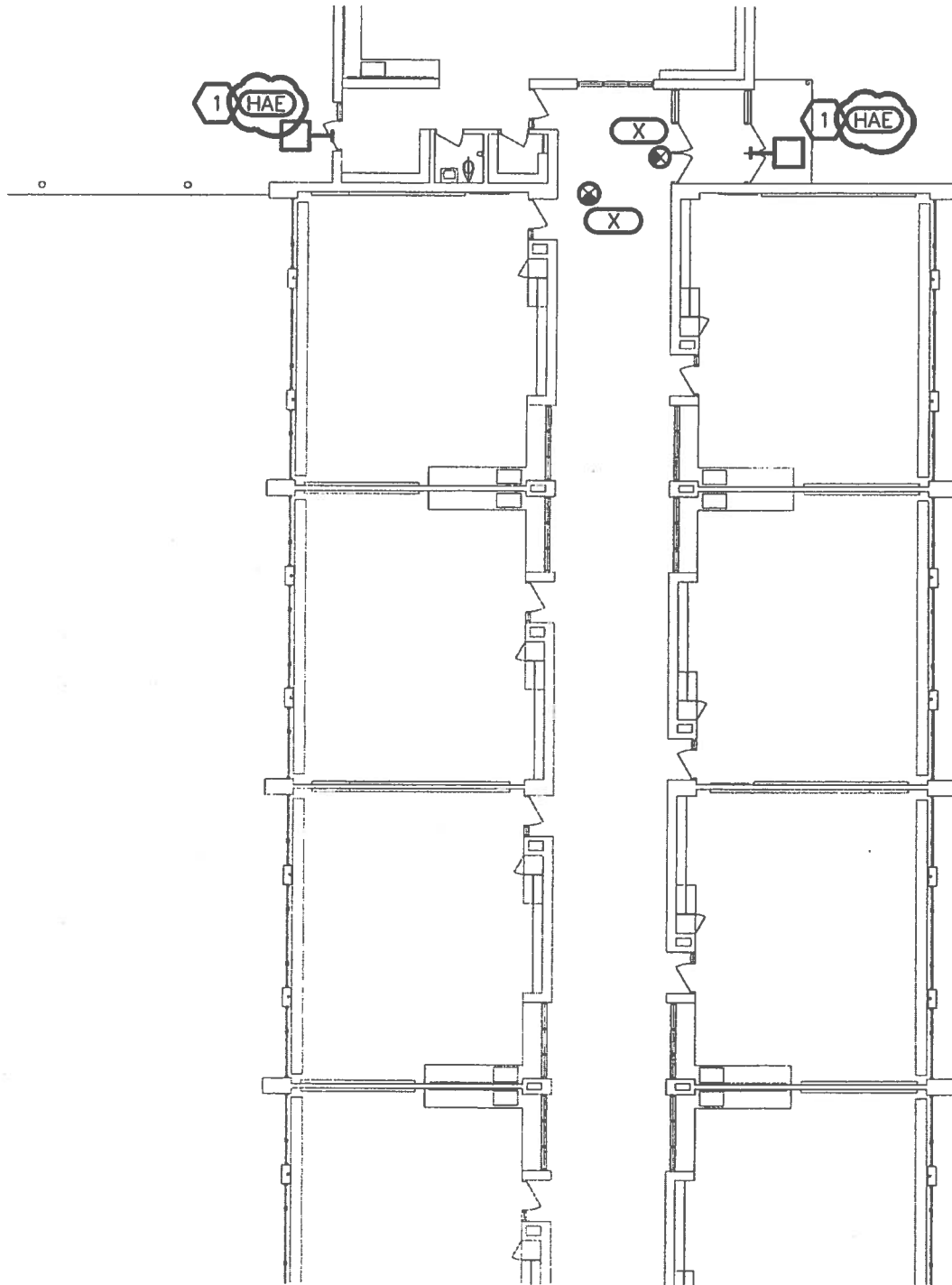
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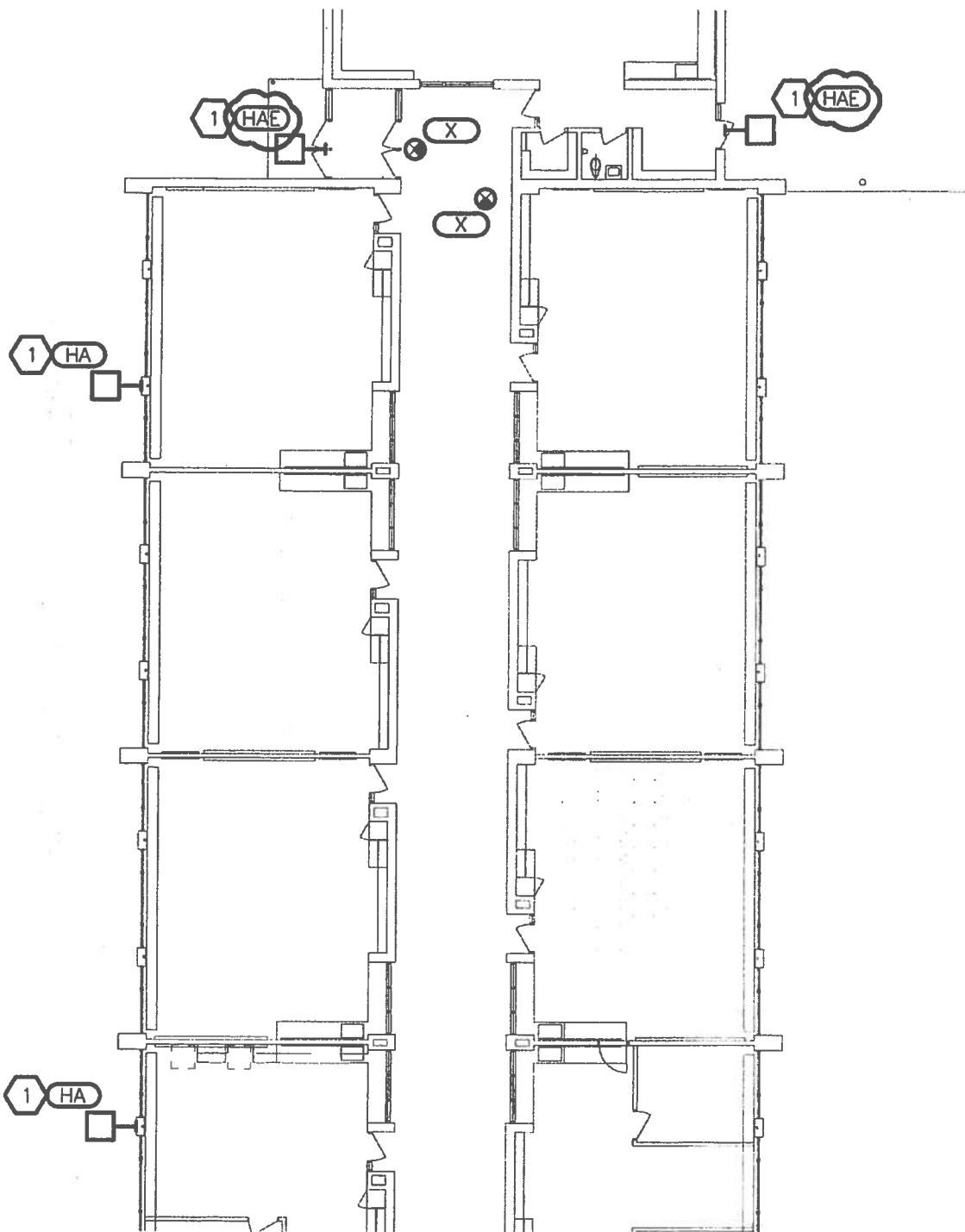
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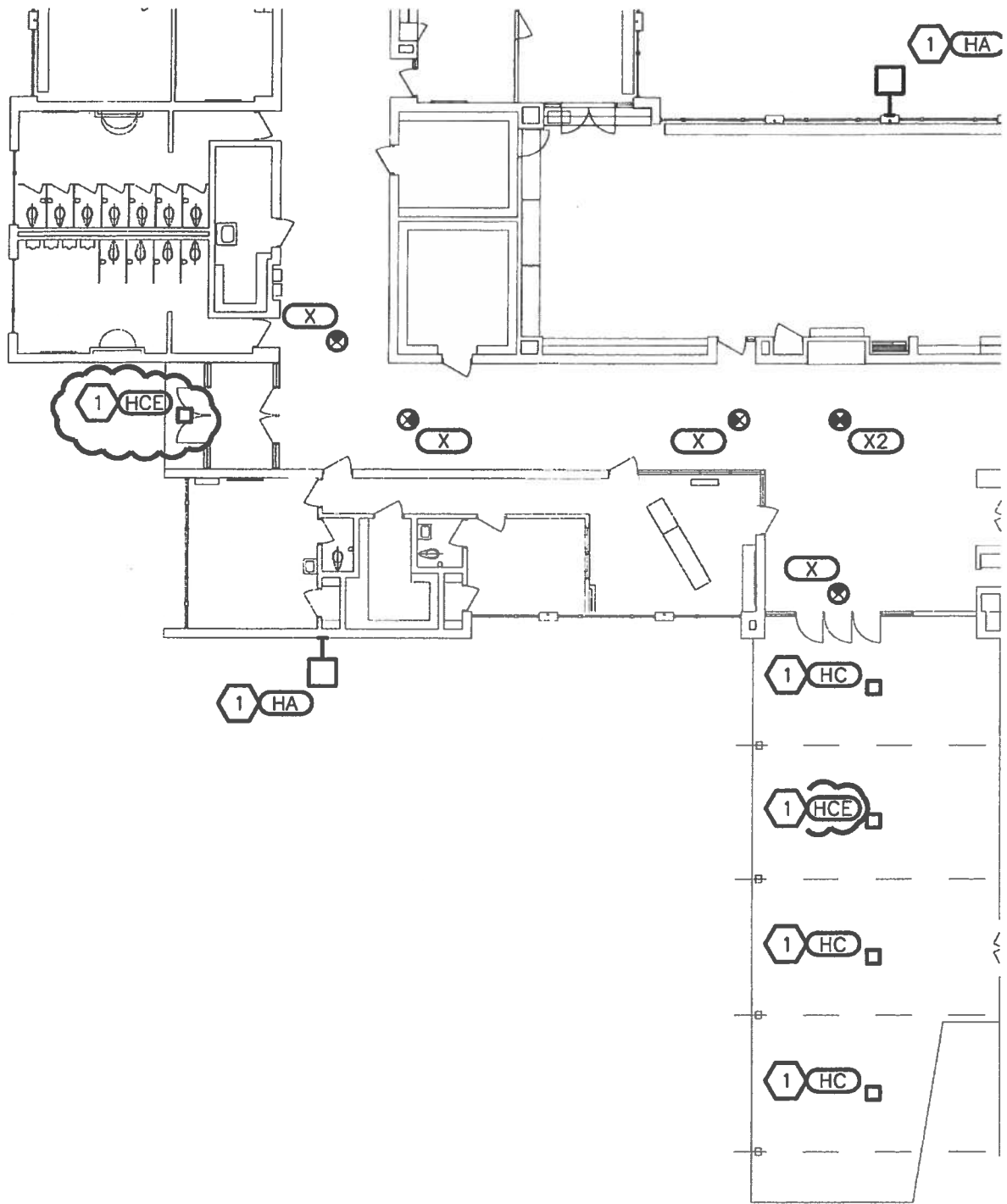
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DRAWING NO:

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

DEMOLITION KEYED NOTES

- 1 DISCONNECT AND REMOVE EXISTING BUILDING MOUNTED EXTERIOR LIGHTING. PROTECT EXISTING CIRCUITING FOR INSTALLATION OF NEW FIXTURES AT SAME LOCATION. SEE NEW WORK PLANS FOR ADDITIONAL INFORMATION.
- 2 REMOVE EXISTING EXIT SIGN OR EMERGENCY LIGHT, REPLACE WITH NEW PER NEW WORK PLANS.
- 3 EXISTING PUMP TO BE REMOVED, COORDINATE WITH MECHANICAL TRADES. REUSE (1) EXISTING 240V-3P CIRCUIT FOR NEW BOILER.



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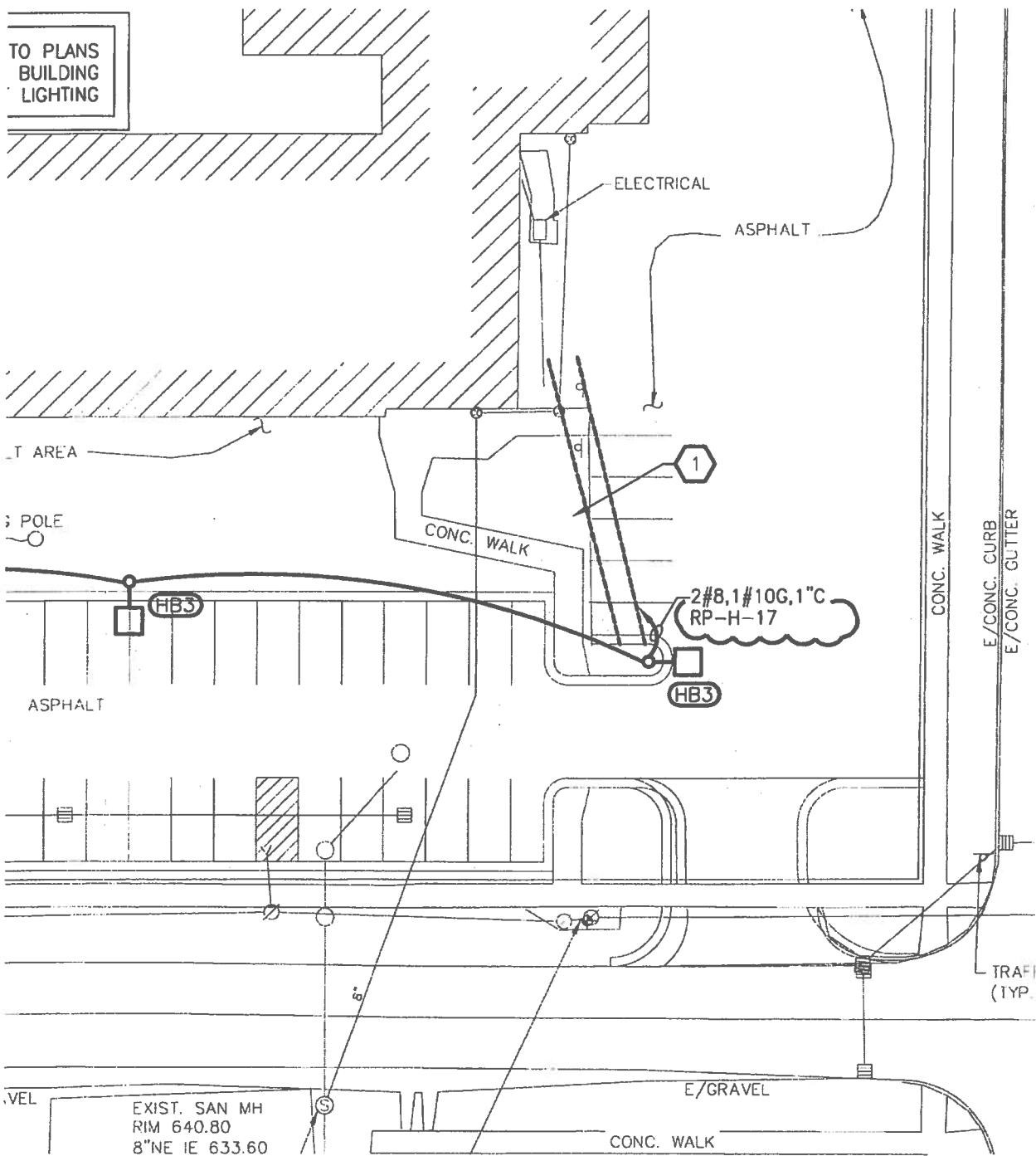
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SCALE: 1/8" = 1'-0"

TO PLANS
BUILDING
LIGHTING



VEL

EXIST. SAN MH
RIM 640.80
8"NE IE 633.60

E/GRAVEL

CONC. WALK

TRAFFIC
(TYP.)



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SCALE 1" = 30'

POWER KEYED NOTES

- 1 REPLACE EXISTING BUILDING MOUNT FIXTURE WITH NEW TYPE 'HA' FIXTURE IN SAME LOCATION. RE-USE EXISTING CIRCUITING.
- 2 CONNECT NEW BOILER TO RP-H-13.
- 3 NOT USED.
- 4 CONNECT TO SPARE BREAKER IN EXISTING PANEL.
- 5 VFD PROVIDED AND INSTALLED BY MECHANICAL TRADES, ENERGIZED BY E.C.
- 6 PROVIDE DEDICATED 20A CIRCUIT FOR WH-1 AS PART OF ALTERNATE #2.



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ISSUED FOR: Addendum No. 1

REF. DRAWING: E3.11s

DATE ISSUED: 4/29/2013

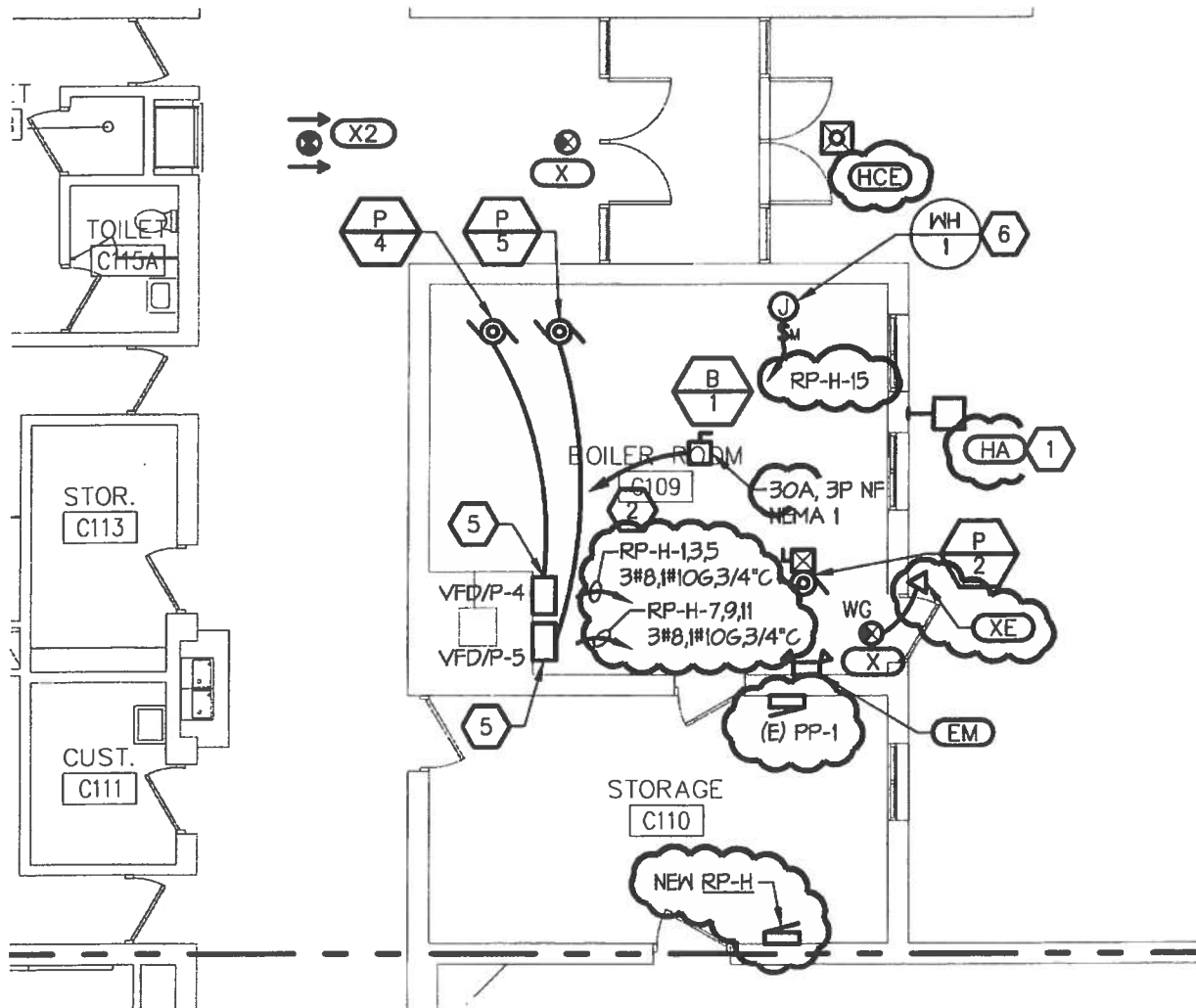
DRAWING NO:

SKE3.11.01s

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

POWER KEYED NOTES

- 1 REPLACE EXISTING BUILDING MOUNT FIXTURE WITH NEW TYPE 'HA' FIXTURE IN SAME LOCATION. RE-USE EXISTING CIRCUITING.
- 2 CONNECT NEW BOILER TO RP-H-13.
- 3 NOT USED.
- 4 CONNECT TO SPARE BREAKER IN EXISTING PANEL.
- 5 VFD PROVIDED AND INSTALLED BY MECHANICAL TRADES, ENERGIZED BY E.C.
- 6 PROVIDE DEDICATED 20A CIRCUIT FOR WH-1 AS PART OF ALTERNATE #2.



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PROJECT:
 Redford Union Schools
 Mechanical/Electrical Improvements
 19990 Beech Daly Road
 Redford, MI 48240

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