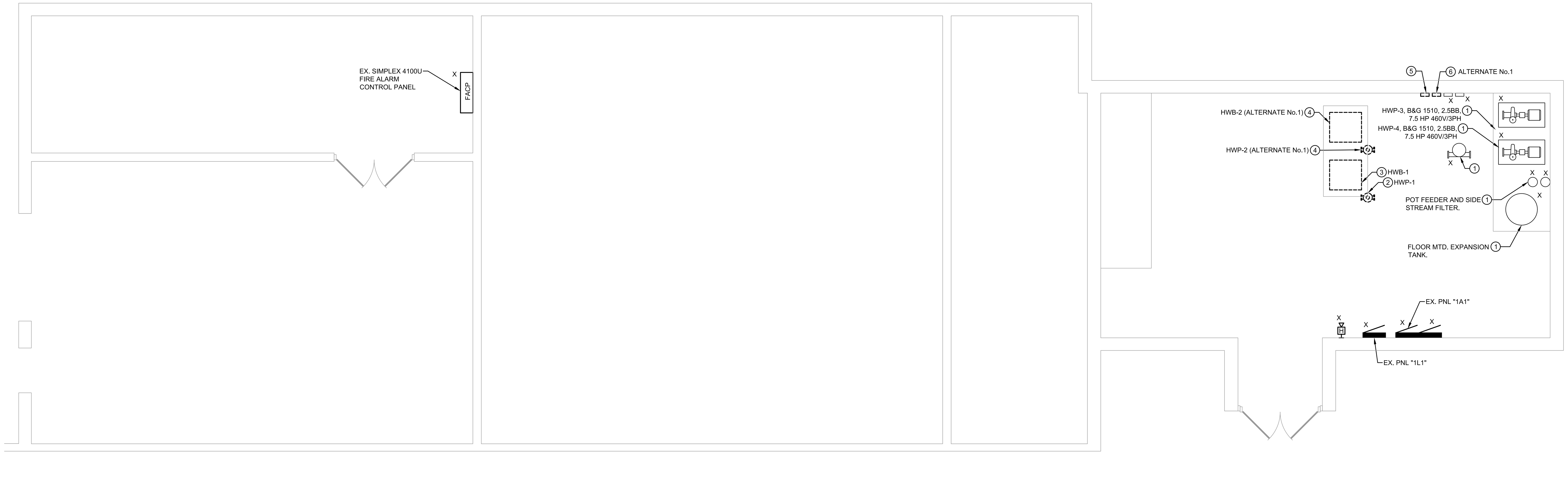

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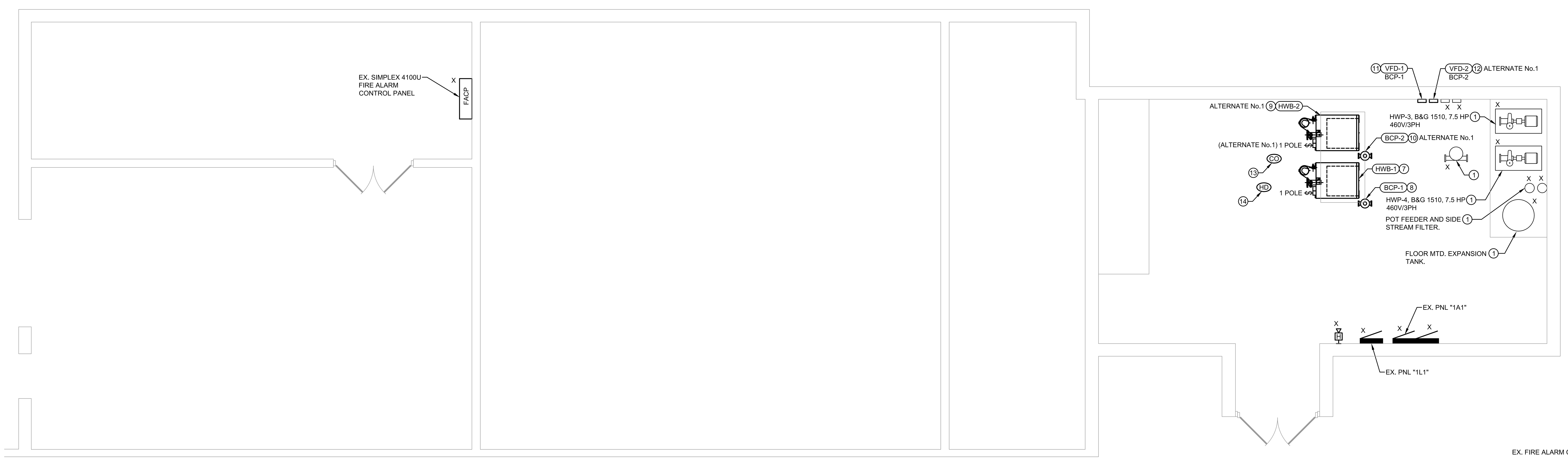
2 GROUND FLOOR PLAN - ELECTRICAL - DEMOLITION

SCALE 1/4" = 1'-0"



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1 GROUND FLOOR PLAN - ELECTRICAL - NEW WORK

SCALE 1/4" = 1'-0"

DRAWING NOTES:

1. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2. REMOVE ALL EXISTING CONDUITS, ASSOCIATED WIRING, BOXES, DISCONNECT SWITCHES THAT CURRENTLY SERVES EXISTING INLINE PUMP BACK TO A JUNCTION BOX. PRESERVE THE EXISTING CIRCUIT TO SERVE THE NEW PUMP.
3. REMOVE ALL EXISTING CONDUITS, ASSOCIATED WIRING, BOXES, DISCONNECT SWITCHES THAT CURRENTLY SERVES EXISTING BOILER BACK TO A JUNCTION BOX. PRESERVE THE EXISTING CIRCUIT TO SERVE THE NEW BOILER.
4. BASE BID: NO WORK
   ALTERNATE No.1: ELECTRICALLY DISCONNECT AND REMOVE ALL CONDUITS, ASSOCIATED WIRING, BOXES, DISCONNECT SWITCHES ETC. THAT CURRENTLY SERVES EXISTING HWB-2, HWP-2 BACK TO A JUNCTION BOX ONLY IF ALTERNATE No. 1 IS ACCEPTED.
5. REMOVE EXISTING MOTOR STARTER THAT CURRENTLY SERVES EXISTING PUMP-1 BACK TO A JUNCTION BOX. PRESERVE EXISTING CIRCUIT TO FEED NEW VFD FOR NEW PUMP-1 AT SIMILAR LOCATION.
6. BASE BID: NO WORK
   ALTERNATE No.1: REMOVE EXISTING MOTOR STARTER THAT CURRENTLY SERVES EXISTING PUMP-2 BACK TO A JUNCTION BOX. PRESERVE EXISTING CIRCUIT TO FEED NEW VFD FOR NEW PUMP-2 AT SIMILAR LOCATION IF ALTERNATE No.1 IS ACCEPTED.
7. UTILIZE EXISTING CIRCUIT THAT PREVIOUSLY SERVED EXISTING BOILER TO FEED THE NEW BOILER HWB-1. INTERCEPT AND EXTEND WIRING AS REQUIRED. PROVIDE (1) 120V, 15A., 1 POLE SAFETY SWITCH. VERIFY EXACT LOCATION IN FIELD.
8. UTILIZE EXISTING CIRCUIT THAT PREVIOUSLY SERVED EXISTING PUMP TO FEED THE NEW PUMP BCP-1. INTERCEPT AND EXTEND WIRING AS REQUIRED. PROVIDE (3)#12, 1#12 GRD, 3/4" C FROM THE NEW VFD TO THIS NEW PUMP.
9. BASE BID: NO WORK
   ALTERNATE No.1: UTILIZE EXISTING CIRCUIT THAT PREVIOUSLY SERVED EXISTING BOILER TO FEED THE NEW BOILER HWB-2. INTERCEPT AND EXTEND WIRING AS REQUIRED. PROVIDE (1) 120V, 15A., 1 POLE SAFETY SWITCH. VERIFY EXACT LOCATION IN FIELD.
10. BASE BID: NO WORK
    ALTERNATE No.1: UTILIZE EXISTING CIRCUIT THAT PREVIOUSLY SERVED EXISTING PUMP TO FEED THE NEW PUMP BCP-2. INTERCEPT AND EXTEND WIRING AS REQUIRED. PROVIDE (3)#12, 1#12 GRD., 3/4"C FROM THE NEW VFD TO THIS NEW PUMP.
11. APPROXIMATE LOCATION OF NEW VFD FOR HWP-1. UTILIZE EXISTING CIRCUIT THAT PREVIOUSLY SERVED EXISTING PUMP-1 TO FEED THIS VFD. INTERCEPT AND EXTEND WIRING AS NEEDED. VERIFY IN FIELD.
12. BASE BID: NO WORK
    ALTERNATE No.1: APPROXIMATE LOCATION OF NEW VFD FOR HWP-2. UTILIZE EXISTING CIRCUIT THAT PREVIOUSLY SERVED EXISTING PUMP-2 TO FEED THIS VFD. INTERCEPT AND EXTEND WIRING AS NEEDED. VERIFY IN FIELD.
13. PROVIDE ONE FIRE ALARM CO DETECTOR. MODEL NUMBER#MARCURO CME1 CO DETECTOR. MONITOR MODULE MODEL NUMBER#4090-9001. CONNECT TO EXISTING SIMPLEX FIRE ALARM SYSTEM. VERIFY EXACT REQUIREMENTS WITH THE MANUFACTURER. VERIFY EXACT LOCATION IN FIELD.
14. PROVIDE ONE FIRE ALARM HEAT DETECTOR. MODEL NUMBER#4098-9733. CONNECT TO EXISTING SIMPLEX FIRE ALARM SYSTEM. VERIFY EXACT REQUIREMENTS WITH THE MANUFACTURER. VERIFY EXACT LOCATION IN FIELD.

GENERAL NOTES:

A. THE MINIMUM WIRE SIZE SHALL BE #12 AWG. THE CONTRACTOR SHALL PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH UNGROUNDED CONDUCTOR IN THE MULTIWIRE BRANCH CIRCUIT.

B. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS TO LIGHTING FIXTURES SHALL BE 3/4"C. 1/2"C. MAY BE ACCEPTABLE FOR BRANCH WIRING FOR SINGLE CIRCUITS ONLY. ALL LIGHTING BRANCH CIRCUITS SHALL TERMINATE AT 20A-1P CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS OTHERWISE NOTED. PROVIDE LOCK-ON CIRCUIT BREAKER DEVICES FOR ALL EMERGENCY LIGHTING CIRCUITS.

C. THE CONTRACTOR SHALL UPSIZE CONDUCTORS AND CONDUITS (OVER 75'-0" IN LENGTH) TO COMPENSATE FOR VOLTAGE DROP.

D. PROVIDE & INSTALL TAMPER PROOF RECEPTACLES IN ALL LOCATIONS, UNLESS NOTED OTHERWISE.

E. REFER TO ARCHITECTURAL DRAWINGS FOR ASSIGNED CEILING WORK. THIS CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE, RESTORE, CUT, PATCH, PAINT, ETC. ANY CEILING WORK NOT SHOWN ON ARCHITECTURAL DRAWINGS AS REQUIRED TO PERFORM THIS CONTRACTORS WORK.

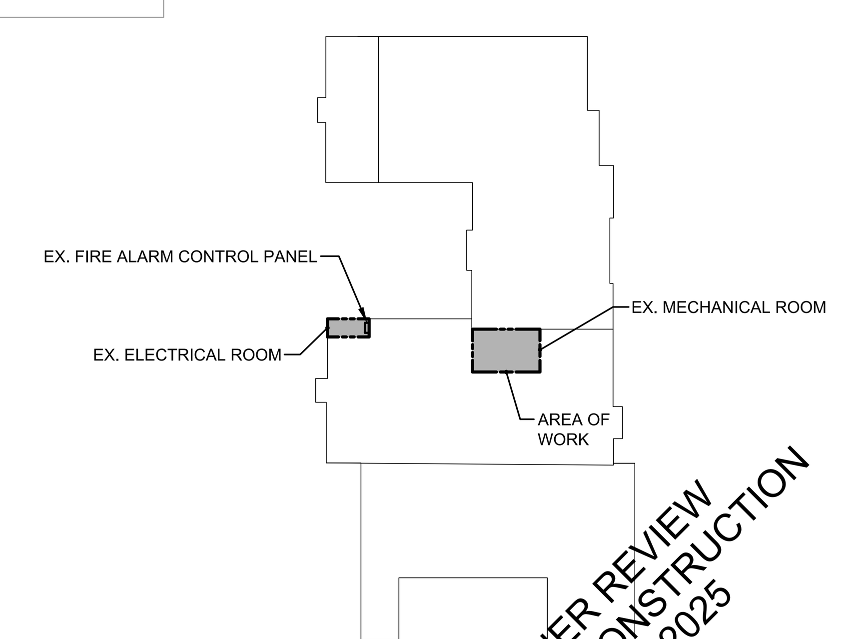
F. THE CONTRACTOR SHALL VERIFY EXACT EQUIPMENT LOCATIONS, LOAD INFORMATION, VOLTAGE, AMPERAGE, CONNECTION TYPE ETC. WITH EQUIPMENT BEING SUPPLIED PRIOR TO ROUGH-IN.

G. ALL CIRCUIT NUMBERS ARE FOR COORDINATION PURPOSES ONLY. THE ELECTRICAL CONTRACTOR SHALL CIRCUIT ACCORDINGLY AS REQUIRED. VERIFY ALL SPARES AND SPACES IN EXISTING PANELS WHERE APPLICABLE. VERIFY CIRCUIT/PANEL LOADING PRIOR TO FINAL CONNECTIONS. ADJUST ALL AS REQUIRED PER FIELD CONDITIONS.

H. WHEREVER CIRCUIT CONDUCTORS ARE SPLICED IN A BOX, ALL EQUIPMENT GROUNDING CONDUCTORS ASSOCIATED WITH THESE CIRCUITS MUST BE BONDED ("PIGTAILED") TO THE BOX.

CEILING WORK NOTE:

REFER TO MECHANICAL PLANS FOR CEILING WORK IN CONTRACT TO BE PERFORMED BY OTHER TRADES. THIS CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE, RESTORE, CUT, PATCH, PAINT, ETC. ANY CEILING WORK NOT SHOWN ON MECHANICAL PLANS AS REQUIRED TO PERFORM THIS CONTRACTORS WORK. THIS INCLUDES REMOVAL AND REPLACEMENT OF LIGHTS, SPEAKERS, SMOKE DETECTORS, ETC., AS WELL AS REPLACEMENT OF ANY CEILING TRACK & TILES DAMAGED DURING CONSTRUCTION/ DEMOLITION. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO DOCUMENT ANY DAMAGED CEILING TILES OR COMPONENTS PRIOR TO CONSTRUCTION/DEMOLITION. THIS CONTRACTOR RESPONSIBLE FOR ALL ASSOCIATED COSTS. CONTRACTOR SHALL PROVIDE ACCESS PANELS AS REQUIRED.



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KEYPLAN

N.T.S.

OWNER REVIEW
NOT FOR CONSTRUCTION
09-18-2025

Revisions:
ISSUED FOR BID ---

Consultants:

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MIDDLE SCHOOL BOILER ELECTRICAL DEMOLITION AND NEW WORK PLANS

2025 HVAC UPGRADES

Murphy Elementary School, 220 Greenwood Dr, Round Lake Park, IL 60073
Round Lake Middle School, 2000 N Lotus Dr, Round Lake Heights, IL 60073

ROUND LAKE CUSD 116
510 N. CEDAR LAKE ROAD
ROUND LAKE, IL 60073

Issue Date: 18 SEP 2025
Drawn By: CS2
Job Number: 886-S-1

E2.1

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