

EMERGENCY POWER RISER DIAGRAM  
NO SCALE

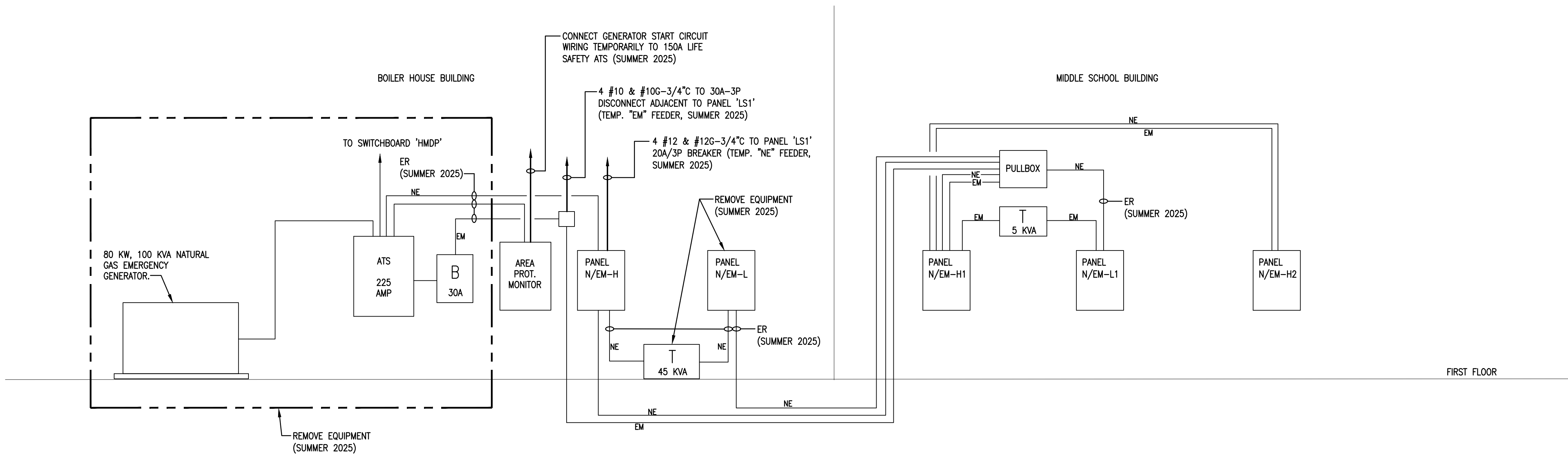
INSTALL EQUIPMENT IN SUMMER 2025.

HIGH EFFICIENCY TRANSFORMER SCHEDULE: (REFER TO SPECIFICATIONS)

- T1. 75 KVA, 480V, 3ø, 3 WIRE, DELTA PRIMARY, 120/208V, 3ø, 4 WIRE, WYE SECONDARY. FLOOR MOUNTED.
- T3. 9 KVA, 480V, 3ø, 3 WIRE, DELTA PRIMARY, 120/208V, 3ø, 4 WIRE, WYE SECONDARY. WALL MOUNTED.

UTILIZE THIS WIRE CHART FOR DETERMINING WIRE AND CONDUIT SIZE REQUIRED, UNLESS NOTED OTHERWISE. FOR EACH PANEL FEEDER SHOWN ON POWER RISER DIAGRAM AND EMERGENCY POWER RISER DIAGRAM BASED UPON WIRE AMPACITY AND WIRE QUANTITY INDICATED AT EACH PANEL, DISCONNECT AND/OR TRANSFORMER.

WIRE / CONDUIT SIZE CHART					
Wire Ampacity	Parallel Number of Sets	Wire Size (CU) Conductor / Ground (THHN/THWN) or XHHW-2	Conduit Size		
			1ø,2W+G	1ø,3W+G 3ø,3W+G	3ø,4W+G
30	----	#10 / #10	3/4"	3/4"	3/4"
50	----	#6 / #10	1"	1"	1"
60	----	#4 / #8	1"	1"	1 1/4"
70	----	#4 / #8	1"	1"	1 1/4"
80	----	#3 / #8	1"	1 1/4"	1 1/4"
90	----	#2 / #8	1"	1 1/4"	1 1/4"
100	----	#1 / #6	1 1/4"	1 1/2"	1 1/2"
110	----	#1 / #6	----	1 1/2"	1 1/2"
125	----	#1 / #6	----	1 1/2"	1 1/2"
150	----	#1/0 / #6	----	1 1/2"	2"
175	----	#2/0 / #6	----	2"	2"
200	----	#3/0 / #6	----	2"	2"
225	----	#4/0 / #4	----	2"	2 1/2"
250	----	250kcmil / #4	----	2 1/2"	3"
300	----	300kcmil / #4	----	3"	3"
350	----	500kcmil / #2	----	3"	4"
400	----	500kcmil / #2	----	3"	4"
450	2	#4/0 / #2	----	2"	2 1/2"
500	2	#4/0 / #2	----	2"	2 1/2"
600	2	300kcmil / #1	----	2 1/2"	3"
700	2	400kcmil / #1/0	----	3"	4"
800	2	500kcmil / #1/0	----	3"	4"
1000	3	400kcmil / #2/0	----	3"	4"
1200	4	350kcmil / #3/0	----	3"	3"
Ground Feed		Provide #4/0 cu grounding connection to cold water & sprinkler pipe, gas piping, concrete slab rebar and building steel per N.E.C. article 250.			
Generator start ckt		Generator start circuits in 1" conduit.			
Note: Ground sizes are not for service entrances.Copper compression connectors must be used at both ends of cables.					



EXISTING EMERGENCY POWER RISER DIAGRAM  
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REMOVE ALL EQUIPMENT SHOWN, INCLUDING TEMPORARY WIRING, WHEN PHASING ALLOWS AT END OF PROJECT UNLESS NOTED OTHERWISE.