

Electrical Key Notes

1. RECEPTACLE & DATA PORT MOUNTED AT SMARTBOARD/PROJECTOR HEIGHT. COORDINATE EXACT HEIGHT IN FIELD WITH EQUIPMENT SUPPLIED.

2. COORDINATE EXACT LOCATION OF ELEVATOR CONTROLLER IN FIELD.

3. PROVIDE FEEDER TERMINATING IN THE ELEVATOR CONTROLLER LOCATED AT THE TOP LANDING. FEEDER TO BE TERMINATED AT THE ELEVATOR CONTROLLER AT THE START OF INSTALLATION OF THE TOP LANDING ELEVATOR ENTRANCE AND THE TIMING OF CONNECTION TO CONTROLLER SHALL BE COORDINATED WITH THE ELEVATOR INSTALLER. PROVIDE AN ENCLOSED, FUSED DISCONNECT SWITCH CAPABLE OF BEING LOCKED IN THE OPEN POSITION. FUSES ARE TO BE CURRENT LIMITING CLASS J OR EQUIVALENT. FUSES ARE TO BE TIME DELAY TO COVER THE FULL LOAD UP ACCELERATING CURRENT. ACCELERATING CURRENT TYPICALLY IS A PEAK OF 55A, AND LASTS FOR DURATION NOT TO EXCEED 7 SECONDS.

4. PROVIDE AND INSTALL ONE (1) DEDICATED OUTSIDE TELEPHONE LINE TERMINATED AT THE CONTROLLER. COORDINATE WITH THE ELEVATOR CONTRACTOR.
5. CHASE FOR CONDUIT RISERS. FLOOR PENETRATIONS MUST BE COORDINATED DURING THE SHOP DRAWING PROCESS. THE CONTRACTOR SHALL SUBMIT A CONDUIT ROUTING DIAGRAM FOR APPROVAL.

6. PANEL CONTAINING THE BREAKER FOR THE DEDICATED 120 VOLT, 20A SINGLE-PHASE BRANCH CIRCUIT FOR THE CAR LIGHTS, CAR TOP RECEPTACLE, AUXILIARY LIGHTING POWER SOURCE AND VENTILATION. THE BREAKER SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION. TERMINATION OF THIS BRANCH CIRCUIT SHALL BE IN THE ELEVATOR CONTROLLER LOCATED AT THE TOP LANDING AND SHALL BE CONNECTED AT THE SAME TIME AS THE FEEDER REFERENCED IN KEY NOTE 3.

7. 1" C W/ (3) #6 & (1) #10 GND FOR ELEVATOR MOTOR.

8. COMBINE CIRCUITS 7 & 9 AND 10, 11, 12 IN (2) 3/4" C WITHIN THE RISER CHASE. PROVIDE AND INSTALL A CODE SIZED JB AT EACH FLOOR TO DISTRIBUTE
9. COMBINE CIRCUITS [1/3, 2/4, 14, 17] [5/7, 6/8, 16, 19] AND [9/11, 10/12, 18] IN (3) 3/4" C WITHIN THE RISER CHASE. PROVIDE AND INSTALL A CODE SIZED JB AT EACH FLOOR TO DISTRIBUTE INTO INDIVIDUAL 3/4" C PER CIRCUIT.

10. CONNECT TO CIRCUIT OF EXISTING EXHAUST FAN THAT HAS BEEN REMOVED VIA (2) #12 & (1) #12 GND.

11. RECEPTACLE & LIGHT IN ELEVATOR SHAFT. PROVIDE SWITCH AT ELEVATOR ENTRANCE. FIXTURE SHALL BE LUMINAIRE LED MODEL No. "VPF42 15W 5000K CC 120-277 OP BLK WET TX/SD"

SYMBOL INDICATES PROPOSED KEY NOTE

PANEL SCHEDULE - PANEL BPL0

FED FROM MDP															208/120V	
CT#	Load Description	Type	Poles	Rated	Current	Neutral	Ground	Raceway	Voltage	kVA	Phase A	Phase B	Phase C	Voltage Drop %		
1	CR 132 RECEPTACLES A	Std	1	20A	(1) 10 ga.	(1) 10 ga.	(1) 12 ga.	3/4 in. EMT	120	1.08	9.47			2.10%		
2	SGI 130 RECEPTACLES	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	0.72	6.32			2.21%		
3	CR 132 RECEPTACLES B	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	0.9		7.89		2.75%		
4	COR. 131 RECEPTACLES	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	0.36		3.16		1.12%		
5	CR 132 RECEPTACLES C	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	0.9			7.89	2.75%		
6	COR. ABC RECEPT	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	0.9			7.89	2.75%		
7	LOWER LEVEL LIGHTING	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	1.15	9.55			3.61%		
8	AREAWAY RECEPT	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	0.18	1.58			0.57%		
9	1st FL ADDITION LIGHTING	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	1.1		9.19		3.47%		
10	STORAGE 53/54 RECEPT	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	1.08		9.47		3.30%		
11-42																
Total Circuits			10	Connected Loads: 8,370 VA								26.1 A	29.1 A	15.1 A		

Voltage: 120 / 208
Circuits: 10 / 42
Neutral Buss: Yes
Ground Buss: Yes
Buss Capacity: 200 A
NEMA: Type 1

Main Connection: breaker
Load kVA: 9
OCPD Size: 100A
OCPD Type: Std
Location:
Remarks: 22 kAIC SCCR

3-Phase Connection

Voltage Drop % for 20 Feet is 0.10%
Raceway: 1-1/4 in. dia. EMT

Current

Neutral

Ground

(3) 3 ga. THHN

(1) 3 ga. THHN

(1) 8 ga. THHN

PANEL SCHEDULE - PANEL BPL3

		OCPD			Conductors				Load		Load per Phase(A)			Voltage	
CT#	Load Description	Type	Poles	Rated	Current	Neutral	Ground	Raceway	Voltage	kVA	Phase A	Phase B	Phase C	Drop %	
1	CR 352 RECEPTACLES A	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	1.26	11.05			1.55%	
2	SGI 314 RECEPTACLES	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	0.72	6.32			1.01%	
3	CR 352 RECEPTACLES B	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	1.08		9.47		1.37%	
4	SGI 315 RECEPTACLES	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	0.54		4.74		0.83%	
5	COR. G & H RECEPTACLES	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	0.9			7.89	1.19%	
6	350/351 RECEPTACLES	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	0.36			3.16	0.64%	
7	CR 252 RECEPTACLES A	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	1.26	11.05			1.55%	
8	SGI 214 RECEPTACLES	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	0.72	6.32			1.01%	
9	CR 252 RECEPTACLES B	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	1.08		9.47		1.37%	
10	SGI 215 RECEPTACLES	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	0.54		4.74		0.83%	
11	COR. D & E RECEPTACLES	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	0.9			7.89	1.19%	
12	250/251 RECEPTACLES	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	0.36			3.16	0.64%	
13	3rd FL ADDITION LIGHTING	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in EMT	120	1.18	9.82			1.51%	
14-34															
35	ELEV 120VLOADS	Std	1	20A	(1) 10 ga.	(1) 10 ga.	(1) 10 ga.	3/4 in EMT	120	1.37			12	1.16%	
36															
37/39/41	ELEVATOR	Std	3	90A	(3) 4 ga.	none	(1) 6 ga.	1 in EMT	208	17.83	55	55	55	0.84%	
38/40/42	SURGE PROTECTION DEVICE ("SPD")	Std	3	30A	(3) 10 ga.	none	(1) 10 ga.	3/4 in EMT	208	0					
		Total Circuits			17	Connected Loads: 31,280 VA						99.1 A	83 A	89 A	

Voltage: 120 / 208
Circuits: 21 / 42
Neutral Buss: No
Ground Buss: Yes
Buss Capacity: 200 A
NEMA: Type 1

Main Connection: breaker
Load kVA: 31
OCPD Size: 200A
OCPD Type: Std
Location:
Remarks: 22kAIC SCCR

3-Phase Connection

Voltage Drop % for 50 Feet is 0.36%
Raceway: 2 in. dia. EMT

Current

Neutral

Ground

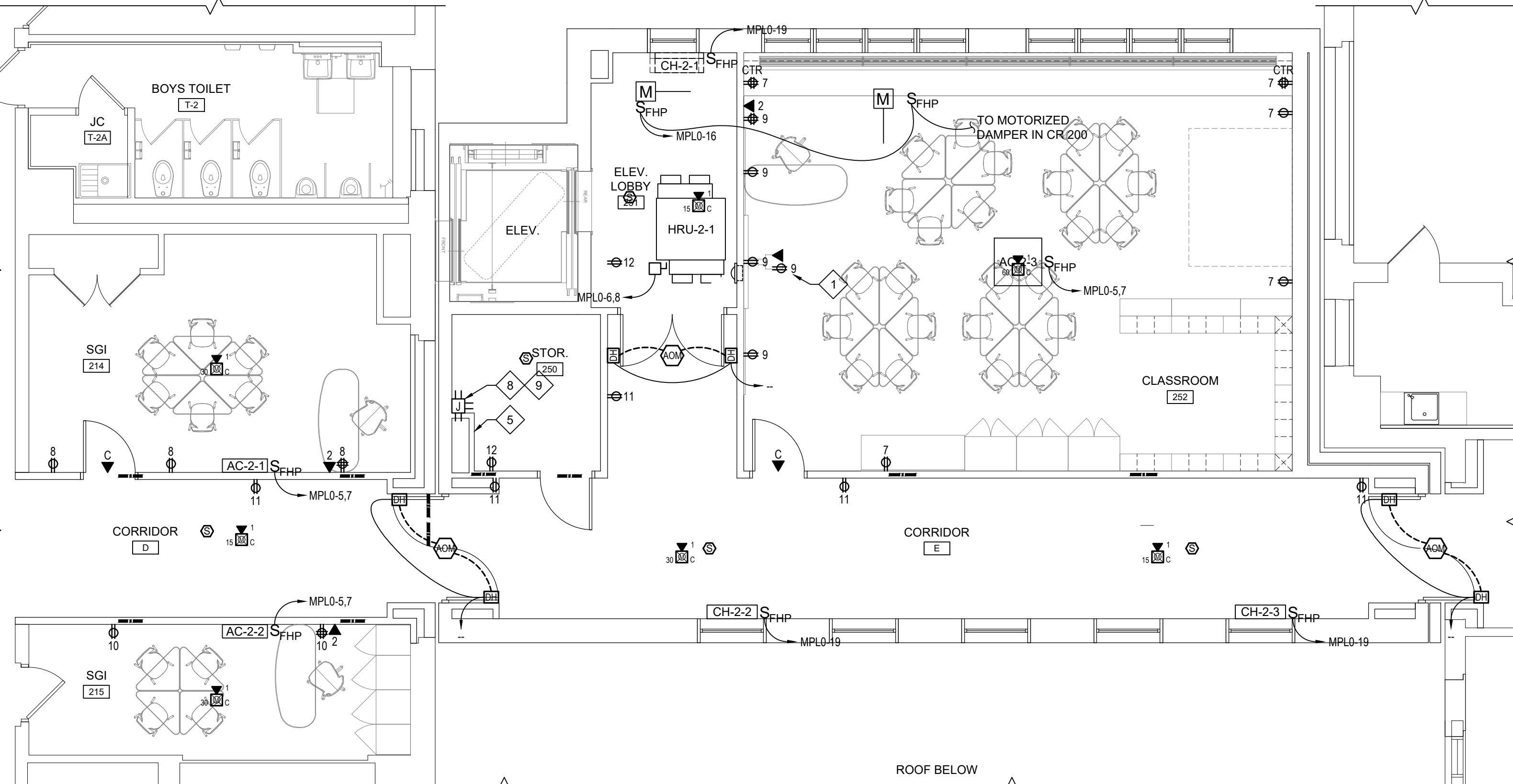
(3) 3/0 ga. THHN

(3) 3/0 ga. THHN

(1) 6 ga. THHN

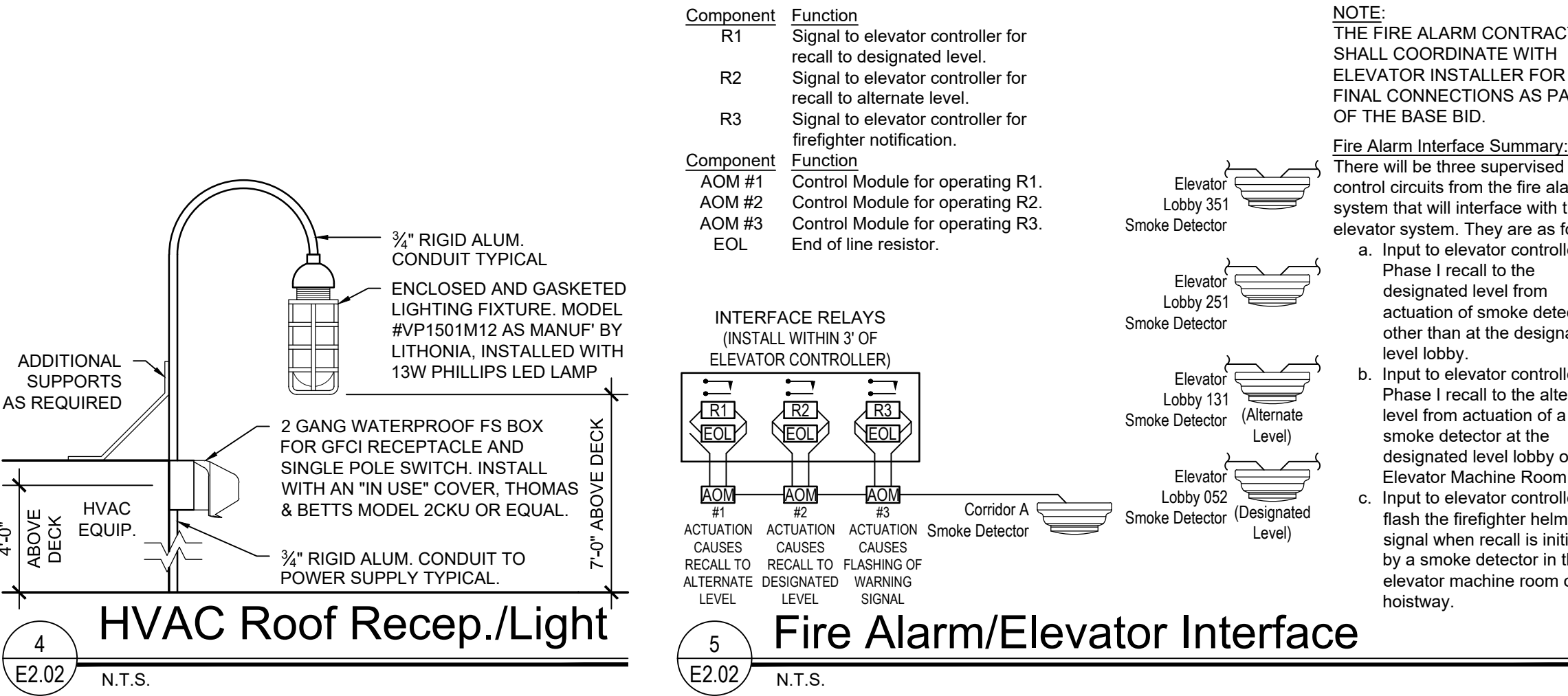
Proposed Power Plan - Third Floor

3/16" = 1'-0" ALL CIRCUITS IN THIS AREA REFER TO PANEL BPL3 UNLESS NOTED OTHERWISE



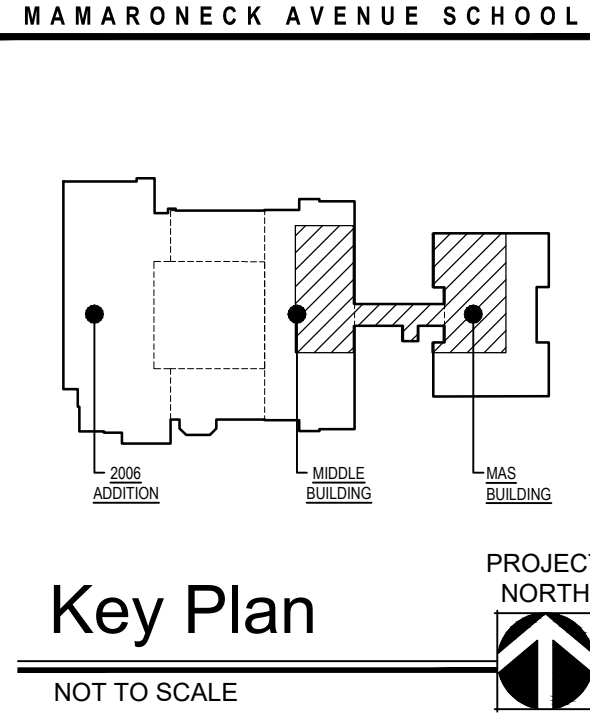
Proposed Power Plan - Second Floor

3/16" = 1'-0" ALL CIRCUITS IN THIS AREA REFER TO PANEL BPL3 UNLESS NOTED OTHERWISE



Proposed Power Plan - Roof

1/8" = 1'-0" ALL CIRCUITS IN THIS AREA REFER TO PANEL MPL0



Date: 1/10/20

Checked: BH

Drawn: MH

Michael J. McGovern, R.A.

REGISTERED ARCHITECT

License No. 022237-1

Revisions:

ISSUE TO BID

11/23/20

LAN ASSOCIATES

engineering • planning • architecture • surveying

252 MAIN STREET, GOSHEN, NEW YORK 10924 (845) 815-0350

PROPOSED POWER PLANS

2019 BOND REFERENDUM

MAMARONECK AVENUE ELEMENTARY SCHOOL

MAMARONECK UNION FREE SCHOOL DISTRICT

850 MAMARONECK AVENUE, MAMARONECK, NY 10543

Job No. 4.1092.72.2

File No. 10927202E201

E2.02