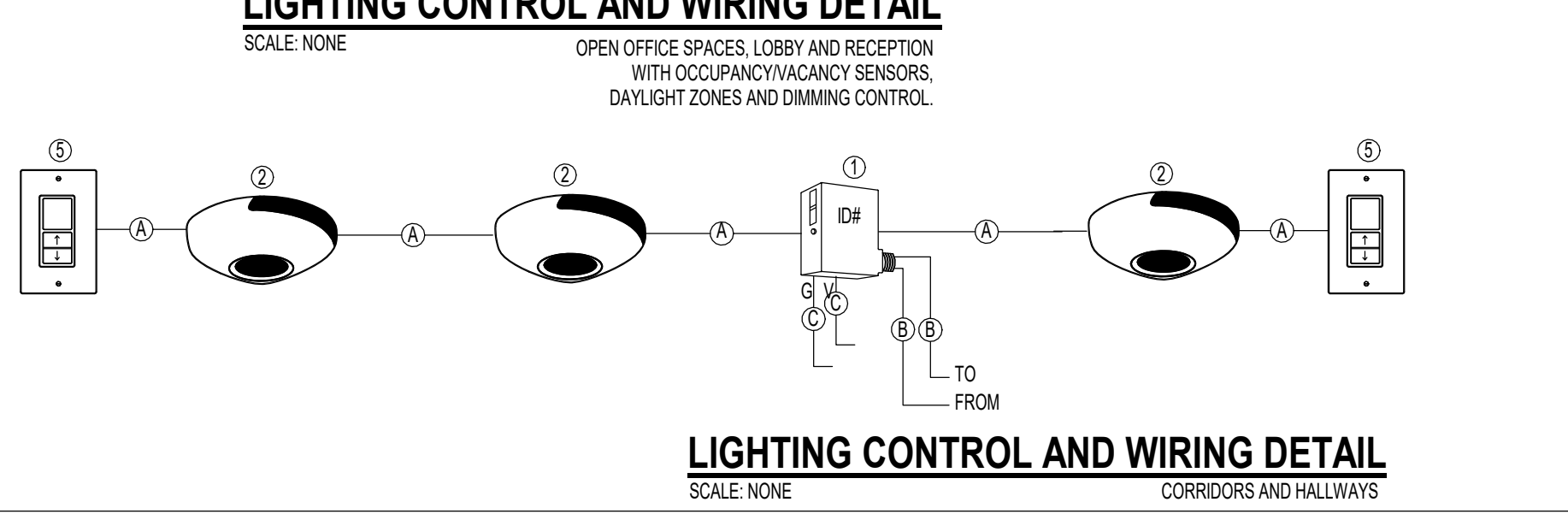
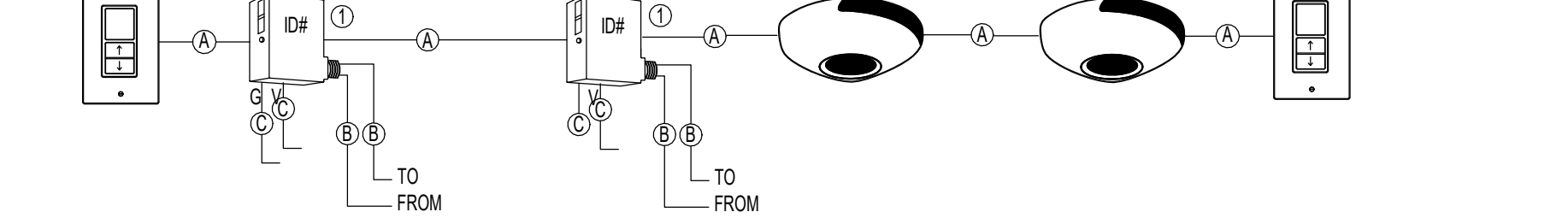
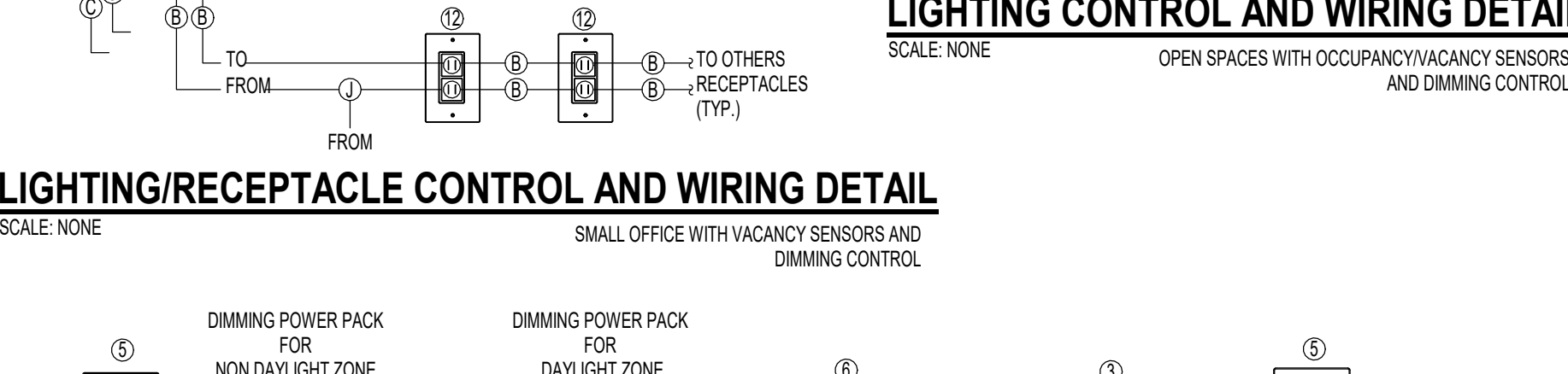
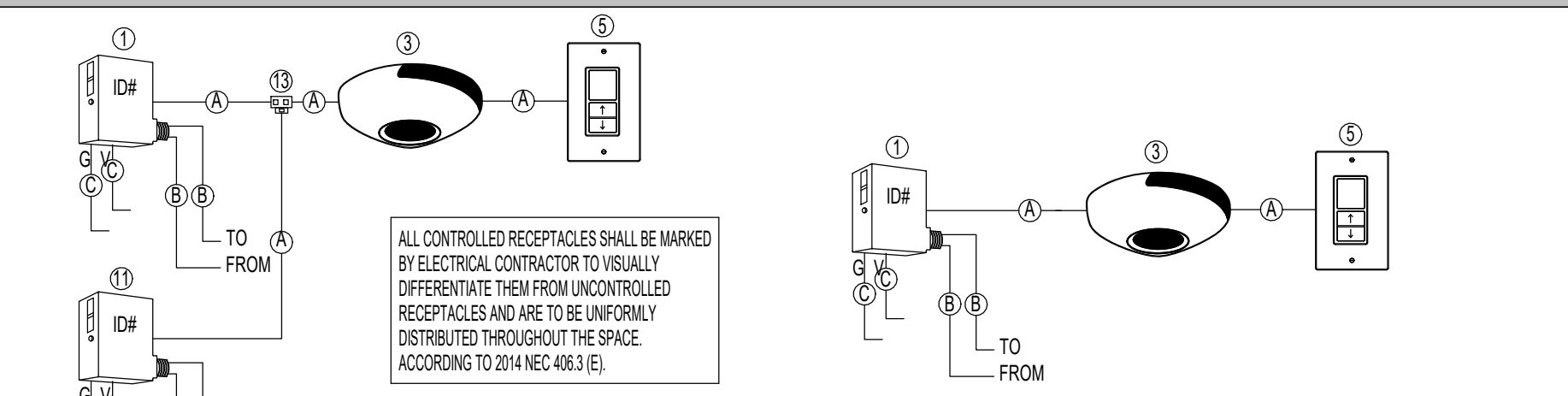
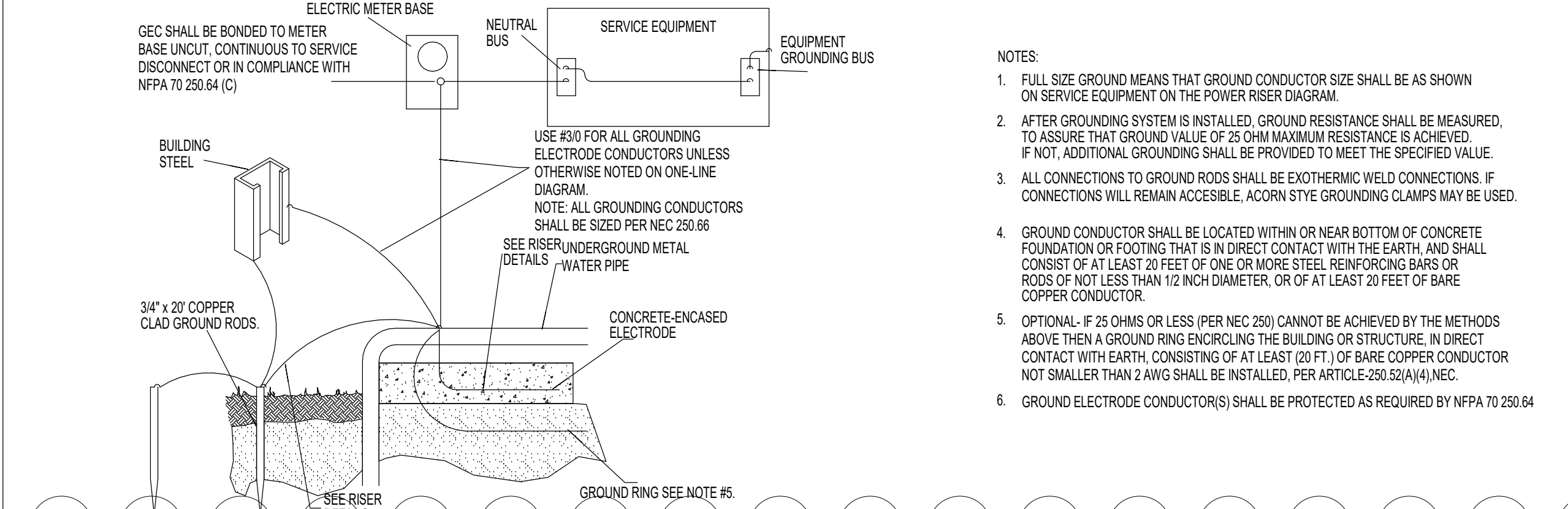


**LIGHTING CONTROL DETAILS**

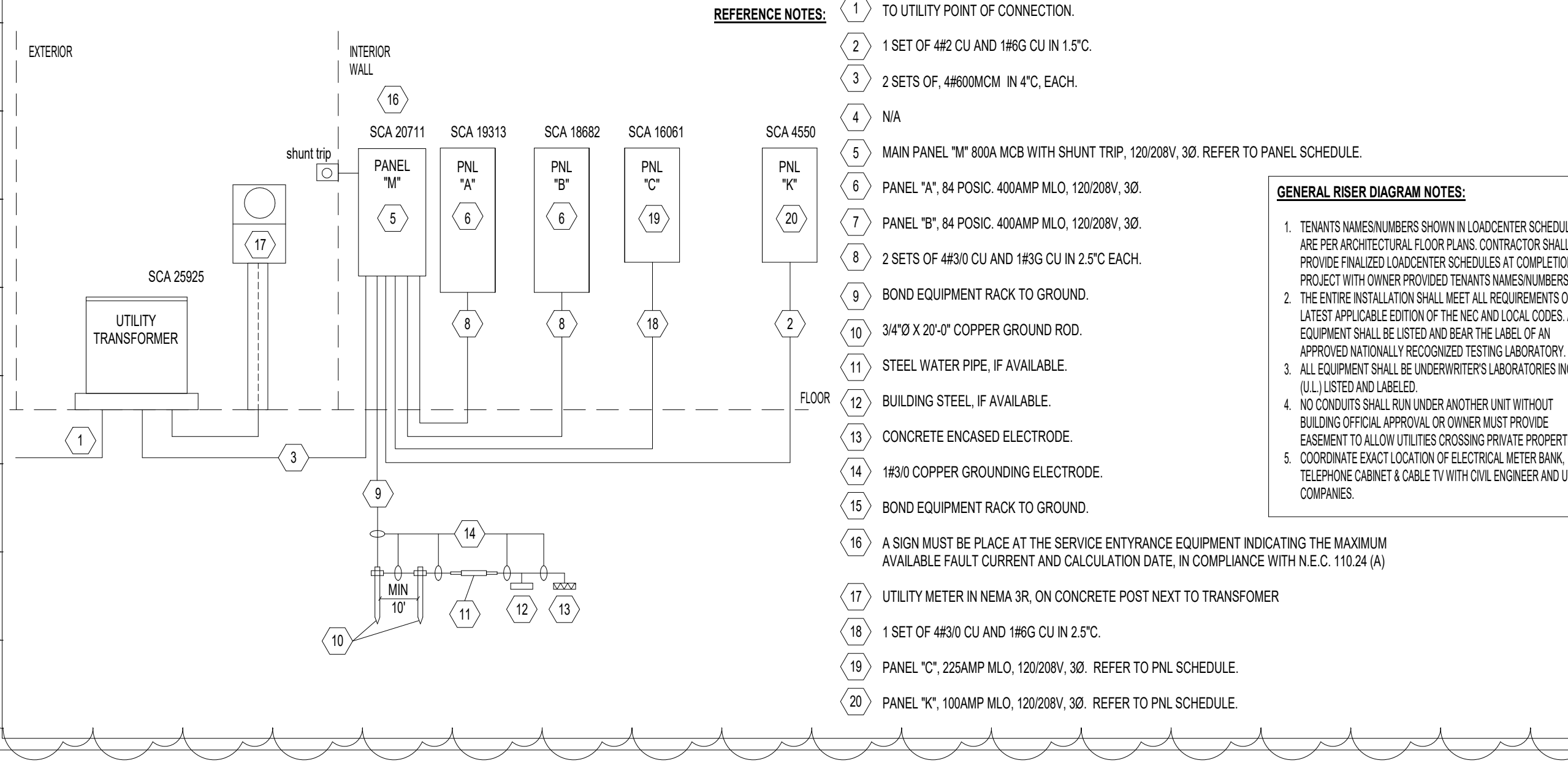
- EQUIPMENT LEGEND**
- 1 SWITCHING AND 0-10V DIMMING PACK MODEL #: APFD D
  - 2 OCCUPANCY/VACANCY SENSOR MODEL #: NCM PDT 10
  - 3 OCCUPANCY/VACANCY SENSOR AND PHOTOCELL COMBO MODEL #: NCM PDT 10 ADCX
  - 4 DIMMER/OCCUPANCY/VACANCY WALL SWITCH COMBINATION UNIT MODEL #: WXS D
  - 5 ON/OFF RAISE/LOWER DIMMER OVERRIDE SWITCH MODEL #: NPODM DX
  - 6 OCCUPANCY SENSOR MODEL #: NCM PDT 10
  - 7 ON/OFF RAISE/LOWER 2 ZONES DIMMER OVERRIDE SWITCH MODEL #: NPODM 2P DX
  - 8 DIMMER/VACANCY DIMMING PACK MODEL #: NPP16 D SA
  - 9 ON/OFF RAISE/LOWER 4 ZONES DIMMER OVERRIDE SWITCH MODEL #: NPODM 4P DX
  - 10 DAYLIGHT HARVESTING PHOTOCELL MODEL #: NCM ADCX RUB
  - 11 PLUG LOAD CONTROL POWER PACK MODEL #: APFD P
  - 12 20 AMP 120V SWITCH DUPLEX RECEPTACLE. PROVIDE LABEL ON THE COVER.
  - 13 CAT-5e SPLITTER



**GROUNDING ELECTRODE CONDUCTOR DETAIL**



**ELECTRICAL RISER DIAGRAM**



**PANEL NAME: M**

Project Name: DME SPORTS HOUSING...  
Project Number: MTF18144  
Fed From: METER CENTER  
Location: M.C.B. WITH SHUNT TRIP

MAIN BREAKER: 800 AMPS 3 POLE 3 PHASE  
MAIN LUGS: 800 AMPS 4 WIRE  
K.A.I.C.: 22 AMPS X 208Y/120V  
SURFACE MTD: X 480Y/277V  
FLUSH MTD: 240/120V

NO	C	K	T	Load Name	Trip	P	Wire and Conduit	A	B	C	Wire and Conduit	P	Trip	Load Name	C	K	T
1				Panel AA1	400 A	3	(2)48X30, 1M30, 2.5" C	32.61	1.91		3/12 IN 3/4"	1	20 A	Lighting Main	2		
3									30.59	0.60				Site Lighting	4		
5										29.25	0.60						
7				Panel BB1	400 A	3	(2)48X30, 1M30, 2.5" C	34.11	1.20		3/10 IN 1"	1	20 A	Irrigation Control	8		
9										32.27	1.20			Exterior SIGN	10		
11											3/10 IN 1"	1	20 A				
13				Panel C	200 A	3	48X30, 1M30, 2.5" C	20.54		29.40							
15										19.14							
17											16.40						
19				Panel K	100 A	3	48, 18G, 1.5" C	14.37									
21									9.97								
23										7.25							
25																	
27																	
29																	
31																	
33																	
35																	
37																	
39											5/10 IN 1"	3	30 A	Surge Protection	38		
41																	

Phase... 104.7 93.8 82.9

Lighting Receptacle Heating Cooling Kitchen Motor Other  
 9853 VA 1.25 11692 VA  
 54850 VA NEC 32440 VA  
 116000 VA 1.00\* 116000 VA  
 29000 VA 1.00\* 3 VA  
 0 VA 0.65 0 VA  
 1000 VA 1.25 1125 VA  
 71010 VA 1.00 21010 VA

Total Connected Load: 281.4 kVA  
Total Demand Load: 232.5 kVA  
Demand Amps: 645 A

116000 VA  
Larger A/C LOAD

NOTES: 1) LOCKED CKT BREAKER 2) HACR RATED CKT BREAKER 3) VIT TIMELOCK 4) GFCI 5) ISOLATED GRND 6) TYPE D BREAKER 7) JAFCI BREAKER, BUSHUNT TRIP

GENERAL NOTE: ALL BREAKERS ARE SIZED FOR CONTINUOUS LOAD PER NEC 210.20(A).

**PANEL NAME: A**

Project Name: DME SPORTS HOUSING...  
Project Number: MTF18144  
Fed From: PANEL M  
Location: PANEL M

MAIN BREAKER: M.L.O. AMPS 3 POLE 3 PHASE  
MAIN LUGS: 400 AMPS 4 WIRE  
K.A.I.C.: 22 AMPS X 208Y/120V  
SURFACE MTD: X 480Y/277V  
FLUSH MTD: 240/120V

NO	C	K	T	Load Name	Trip	P	Wire and Conduit	A	B	C	Wire and Conduit	P	Trip	Load Name	C	K	T
1				Recept A-1	20 A	1	3/12 IN 3/4"	0.72	4.00		4/8 IN 1"	3	50 A	EWH-3	2		
3				Recept A-2	20 A	1	3/12 IN 3/4"		0.72	4.00							
5				Recept A-3	20 A	1	3/12 IN 3/4"			0.72	4.00						
7				Recept A-4	20 A	1	3/12 IN 3/4"	0.72	4.00		4/8 IN 1"	3	50 A	EWH-4	8		
9				Recept A-5	20 A	1	3/12 IN 3/4"			0.72	4.00						
11				Recept A-6	20 A	1	3/12 IN 3/4"			0.72	4.00						
13				Recept A-7	20 A	1	3/12 IN 3/4"	0.72	0.50		3/12 IN 3/4"	1	20 A	P-1	14		
15				Recept A-8	20 A	1	3/12 IN 3/4"		0.72	1.08							
17				Recept A-9	20 A	1	3/12 IN 3/4"			0.72	0.96			Lighting Rooms	18		
19				Recept A-10	20 A	1	3/12 IN 3/4"	0.72	1.03		3/12 IN 3/4"	1	20 A	Lighting Wing A	20		
21				Recept Staff	20 A	1	3/12 IN 3/4"			0.72	0.64			Lighting Exterior A	22		
23				Recept RR-A	20 A	1	3/12 IN 3/4"	0.36	0.31		3/12 IN 3/4"	1	20 A	Exhaust Fans	24		
25				Recept RR-A	20 A	1	3/12 IN 3/4"	0.36	0.36		3/12 IN 3/4"	1	20 A	Recept Comp. Lab A	26		
27				Dryer RRA	20 A	1	3/12 IN 3/4"	1.20	0.36		3/12 IN 3/4"	1	20 A	Recept Comp. Lab A	28		
29				Dryer RRA	20 A	1	3/12 IN 3/4"			1.20	1.00			Recept Printer	30		
31				Recept Comp. Lab A	20 A	1	3/12 IN 3/4"	0.36	5.00		3/12 IN 3/4"	1	20 A	Recept Comp. Lab B	32		
33				Recept Comp. Lab A	20 A	1	3/12 IN 3/4"	0.36	5.00		3/8 IN 1"	2	60 A	AHJ-1	34		
35				Recept Comp. Lab A	20 A	1	3/12 IN 3/4"	0.36	2.90		3/8 IN 1"	2	50 A	CU-1	36		
37				Recept Corridor A	20 A	1	3/12 IN 3/4"	0.72	2.90						38		
39				EWC-A	20 A	1	3/12 IN 3/4"	1.20							40		
41				PTAC-A-1	20 A	2	4/10 IN 1"	1.50		1.50					42		
43															44		
45				PTAC-A-2	20 A	2	4/10 IN 1"	1.50		1.50					46		
47															48		
49				PTAC-A-3	20 A	2	4/10 IN 1"	1.50		1.50					50		
51															52		
53				PTAC-A-4	20 A	2	4/10 IN 1"	1.50		1.50					54		
55															56		
57				PTAC-A-5	20 A	2	4/10 IN 1"	1.50		1.50					58		
59															60		
61				PTAC-A-6	20 A	2	4/10 IN 1"	1.50		1.50					62		
63															64		
65				PTAC-A-7	20 A	2	4/10 IN 1"	1.50		1.50					66		
67															68		
69				PTAC-A-8	20 A	2	4/10 IN 1"	1.50		1.50					70		
71															72		
73				PTAC-A-9	20 A	2	4/10 IN 1"	1.50		1.50					74		
75															76		
77				PTAC-A-10	20 A	2	4/10 IN 1"	1.50		1.50					78		
79											5/10 IN 1"	3	30 A	Surge Protection	80		
81				PTAC-A-11	20 A	2	4/10 IN 1"	1.50	0.00	1.50	0.00				82		
83															84		

Phase... 32.6 30.6 29.2

Lighting Receptacle Heating Cooling Kitchen Motor Other  
 2098 VA 1.25 2818 VA  
 14440 VA NEC 12220 VA  
 43000 VA 1.00\* 43000 VA  
 5800 VA 1.00\* 1 VA  
 0 VA 0.65 0 VA  
 500 VA 1.25 625 VA  
 26709 VA 1.00 26709 VA

Total Connected Load: 92.4 kVA  
Total Demand Load: 85.1 kVA  
Demand Amps: 236 A

43000 VA  
Larger A/C LOAD

NOTES: 1) LOCKED CKT BREAKER 2) HACR RATED CKT BREAKER 3) VIT TIMELOCK 4) GFCI 5) ISOLATED GRND 6) TYPE D BREAKER 7) JAFCI BREAKER, BUSHUNT TRIP

**PANEL NAME: K**

Project Name: DME SPORTS HOUSING...  
Project Number: MTF18144  
Fed From: PANEL M  
Location: PANEL M

MAIN BREAKER: M.L.O. AMPS 3 POLE 3 PHASE  
MAIN LUGS: 100 AMPS 4 WIRE  
K.A.I.C.: 22 AMPS X 208Y/120V  
SURFACE MTD: X 480Y/277V  
FLUSH MTD: 240/120V

NO	C	K	T	Load Name	Trip	P	Wire and Conduit	A	B	C	Wire and Conduit	P	Trip	Load Name	C	K	T
1				Freezer	20 A	1	3/12 IN 3/4"	1.00	5.00		3/8 IN 1"	2	60 A	AHJ-5	2		
3				Refrigerator	20 A	1	3/12 IN 3/4"			1.00	5.00				4		
5				Recept Grids	20 A	1	3/12 IN 3/4"	1.00	2.90		3/8 IN 1"	2	50 A	CU-5	6		
7				Recept Range	20 A	1	3/12										