

ELECTRICAL LOAD ANALYSIS

PANEL NAME	CIRCUIT NUMBER	BREAKER SIZE	LOAD QUANTITY	LOAD DESCRIPTION	LOAD VA	LOAD AMPS
AC1	1-39 ODD, 43, 45	30/2	11	GUEST ROOM HVAC	38,500	
120/200V	25-32 EVEN	30/2	8	GUEST ROOM HVAC	28,000	
3 PH 4W	34	30/2	1	CORRIDOR HVAC	5,000	
100 A MLD	47-53 ODD	30/2	2	SPACE	7,000	
12 SECTION	41, 45			SPACE	0	
	55-63 ODD			SPACE	0	
	47-54 EVEN			SPACE	0	
					78,500	272
AC2	1-40	30/2	20	GUEST ROOM HVAC	70,000	
120/200V	43-46	30/2	4	GUEST ROOM HVAC	7,000	
3 PH 4W	47-51, 53	30/2	2	GUEST ROOM HVAC	7,000	
100 A MLD	48, 50	30/2	1	CORRIDOR HVAC	5,000	
12 SECTION	52, 54, 55, 57	30/2	2	SPACE	7,000	
	56, 58-64			SPACE	0	
					96,000	333
AC3	1-40	30/2	20	GUEST ROOM HVAC	70,000	
120/200V	43-46	30/2	4	GUEST ROOM HVAC	7,000	
3 PH 4W	47-51 ODD	30/2	2	GUEST ROOM HVAC	7,000	
100 A MLD	48, 50	30/2	1	LINEN STORAGE	3,500	
12 SECTION	52, 54, 55, 57	30/2	2	CORRIDOR HVAC	5,000	
	56, 58, 60, 62			SPACE	7,000	
	41, 42			SPACE	0	
	63-64			SPACE	0	
					106,500	370
AC4	1-40	30/2	20	GUEST ROOM HVAC	70,000	
120/200V	43-46	30/2	4	GUEST ROOM HVAC	7,000	
3 PH 4W	47-51 ODD	30/2	2	GUEST ROOM HVAC	7,000	
100 A MLD	48, 50	30/2	1	LINEN STORAGE	3,500	
12 SECTION	52, 54, 55, 57	30/2	2	CORRIDOR HVAC	5,000	
	56, 58, 60, 62			SPACE	7,000	
	41, 42			SPACE	0	
	63-64			SPACE	0	
					106,500	370
CA	4-58 EVEN	60/1	10	BREAKFAST AREA RECEPT.	5,040	
120/200V	12, 15	60/1	3	OUTDRY RECEPTACLES	1,080	
3 PH 4W	7-81 ODD, 83	60/1	9	COMM. AREA RECEPTACLES	2,980	
225 A MLD	27	20/1	1	ELEVATOR PIT LIGHT & RECEPT.	1,200	
	22, 24, 25	20/2	1	WASHER	2,162	
	23, 25, 26	20/2	1	WASHER	2,162	
	23, 25	20/1	2	DRYERS	3,600	
	31, 33-42	20/1	11	SPACE	6,000	
					24,123	84
HA	2, 4, 5	20/3	1	CU-2	2,582	
120/200V	12, 15, 18	20/3	3	CU-3	3,603	
3 PH 4W	14, 16, 18	20/3	1	CU-1	2,582	
225 A MLD	20	20/1	1	RECEPTACLE	360	
	22, 24, 25, 26	20/2	2	WATER HEATER PUMPS	5,760	
	23, 25, 26	20/2	2	WATER HEATER PUMPS	5,760	
	34, 36, 38, 40	20/1	4	WATER HEATER PUMPS	5,760	
	1, 3	40/2	1	AC-2	5,637	
	9, 11	40/2	1	AC-3	5,637	
	13, 15	20/1	2	ROOF TOP FANS	3,360	
	17, 19, 21	20/3	1	SPACE	7,000	
	27-41 ODD, 42			SPACE	0	
					53,786	187
L1	1-39 ODD, 43, 45	20/1	22	GUESTROOM CIRCUITS	9,880	
120/200V	25-32 EVEN	20/1	16	GUESTROOM CIRCUITS	4,800	
3 PH 4W	34, 36, 38, 40	20/1	4	VENDING	2,880	
100 A MLD	46, 47	20/1	2	RECEPTACLES	4,660	
	44, 46, 48, 50, 52	20/1	5	LIGHTING	1,080	
	33	20/1	1	RECEPTACLES	1,080	
	35, 37	20/1	2	LIGHTING	1,200	
	41, 42	20/1	4	SPACE	4,800	
	57-64			SPACE	0	
					29,390	102
L2	1-40, 43-47, 49, 51, 53	20/1	48	GUESTROOM CIRCUITS	12,480	
120/200V	48, 50, 52, 54, 56, 58	20/1	6	CORRIDOR CIRCUITS	4,100	
3 PH 4W	58, 60	20/1	2	VENDING	2,400	
100 A MLD	62, 64	20/1	2	RECEPTACLES	1,800	
	53, 57, 59, 61, 63	20/1	5	SPACE	2,500	
	41, 42			SPACE	0	
	65-64			SPACE	0	
					23,280	81
L3	1-40, 43-47, 49-63 ODD	20/1	53	GUESTROOM CIRCUITS	13,780	
120/200V	48, 50, 52, 54	20/1	4	CORRIDOR CIRCUITS	4,100	
3 PH 4W	56, 58, 60, 62	20/1	4	VENDING	4,800	
100 A MLD	62, 64	20/1	2	RECEPTACLES	1,800	
	53, 57, 59, 61, 63	20/1	5	SPACE	2,500	
	41, 42			SPACE	0	
	65-64			SPACE	0	
					26,980	94
L4	1-40, 43-47, 49-63 ODD	20/1	53	GUESTROOM CIRCUITS	13,780	
120/200V	48, 50, 52, 54	20/1	4	CORRIDOR CIRCUITS	4,100	
3 PH 4W	56, 58, 60, 62	20/1	4	VENDING	4,800	
100 A MLD	62, 64	20/1	2	RECEPTACLES	1,800	
	53, 57, 59, 61, 63	20/1	5	SPACE	2,500	
	41, 42			SPACE	0	
	65-64			SPACE	0	
					26,980	94
DL	2	20/1	1	CANOPY LIGHTING	800	
120/200V	4, 6, 8	20/3	1	SIGN	21,615	
3 PH 4W	12, 13, 14	20/3	1	SIGN	21,615	
100 A MLD	16	20/1	1	SPACE	1,500	
	7, 9, 5	20/3	1	SIGN	21,615	
	7-25 ODD	20/2	1	SITE LIGHTING	20,000	
					87,946	305
PL	2, 4, 5	20/3	1	SPA EQUIPMENT	21,615	
120/200V	12, 13, 14, 15, 17, 19	20/1	5	POOL EQUIPMENT	12,000	
3 PH 4W	16, 18, 20	20/1	12	SPACE	2,160	
225 A MLD						
					35,775	124
MS	1, 2, 3	400/3	1	PANEL AC-1		
120/200V	4, 11	400/3	1	PANEL AC-2		
3 PH 4W	13, 15, 17	400/3	1	PANEL AC-3		
3000 A MAIN	19, 21, 23	400/3	1	PANEL AC-4		
2500A MLD	25, 27	225/3	1	PANEL CA		
	31, 33, 35	400/3	1	PANEL HA		
	2, 4, 5	225/3	1	PANEL L1		
	8, 10, 12	100/3	1	PANEL L2		
	14, 16, 18	100/3	1	PANEL L3		
	20, 22, 24	100/3	1	PANEL L4		
	26, 28, 30	400/3	1	PANEL DL		
	32, 34, 36	225/3	1	PANEL PL		
	38, 40, 42	225/3	1	ELEVATOR		

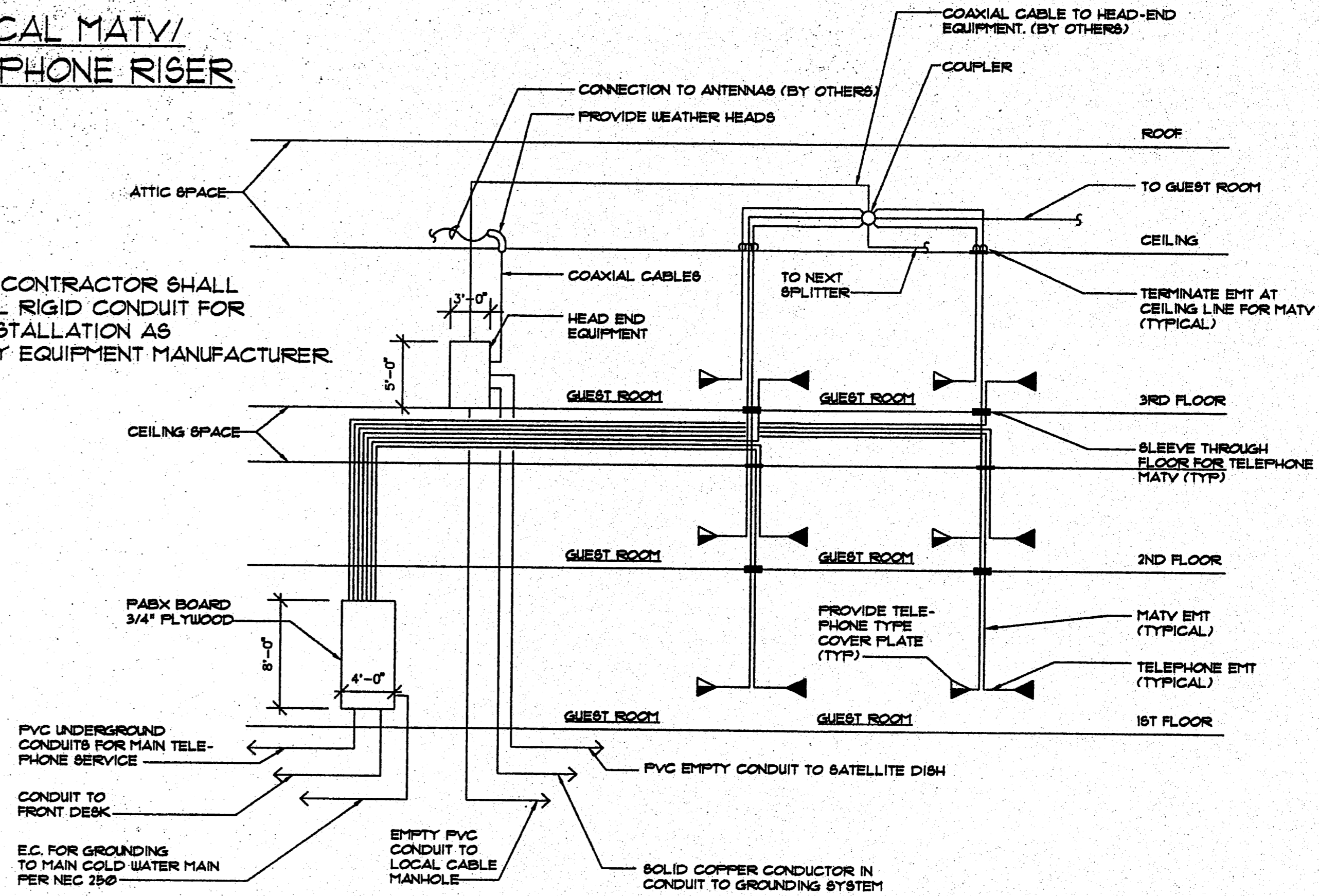
GENERAL LIGHTING LOADS	SQUARE FEET	VA/50 FT	VA	CONT LOAD	TOTAL VOLT AMPS
A. GUEST ROOMS	24,960	2	49,920	1.25	49,920
B. CORRIDORS	3,880	0.5	1,940		2,425
TOTAL					52,345
C. LIGHTING LOAD CALCULATIONS					
1. 1ST 20,000 @ 50%					10,000
2. NEXT 80,000 @ 40%					12,938
3. REMAINDER @ 30%					0
D. COMMERCIAL AREA LIGHTING	9,184	2	18,368	1.25	22,960
E. OUTSIDE LIGHTING					87,902
					109,878
2. ROOM HVAC UNITS					
A. 95 X 3,500 VA =					332,500
B. 6 X 5,000 VA =					30,000
3. COMMERCIAL RECEPTACLE LOADS	9,184	1	9,184		9,184
A. CALCULATIONS					
1. 1ST 10 KVA @ 100%					9,184
2. REMAINDER @ 50%					0
4. ROOM EXHAUST FANS					4,560
A. 19 X 240 VA =					4,560
5. SPECIAL LOADS					
A. 1ST FLOOR VENDING					6,000
B. 2ND FLOOR VENDING					3,000
C. 3RD FLOOR VENDING					6,000
D. 4TH FLOOR VENDING					6,000
E. ELECTRIC WALL HEATERS					6,000
F. AC-1					5,637
G. AC-2					5,637
H. AC-3					5,637
I. CU-1					2,582
J. CU-2					2,582
K. CU-3					2,582
L. SPARE					7,000
M. WATER HEATER PUMPS					11,520
N. DRYERS					3,600
O. WASHERS					4,323
P. PDDL EQUIPMENT					6,000
Q. ELEVATOR					72,051
R. EXHAUST FANS					1,250
S. MISCELLANEOUS					20,000
6. LARGEST MOTOR					18,013
A. 72,0515 X 0.25 (ELEVATOR)					18,013
7. TOTAL VOLT AMPS					727,225
8. TOTAL AMPS					2,020

FIRE ALARM ZONE SCHEDULE		
1	PIV	
2	FLOW/TAMPER - NORTH STAIR LEVEL 1	
3	FLOW/TAMPER - SOUTH STAIR LEVEL 1	
4	FLOW/TAMPER - NORTH STAIR LEVEL 2	
5	FLOW/TAMPER - SOUTH STAIR LEVEL 2	
6	FLOW/TAMPER - NORTH STAIR LEVEL 3	
7	FLOW/TAMPER - SOUTH STAIR LEVEL 3	
8	FLOW/TAMPER - SPRINKLER ROOM LEVEL 1	
9	PULL STATIONS FIRST FLOOR - WEST	
10	PULL STATIONS FIRST FLOOR - EAST	
11	PULL STATIONS SECOND FLOOR - WEST	
12	PULL STATIONS SECOND FLOOR - EAST	
13	PULL STATIONS THIRD FLOOR - WEST	
14	PULL STATIONS THIRD FLOOR - EAST	
15	HORN/STROBES FIRST FLOOR	
16	HORN/STROBES SECOND FLOOR	
17	HORN/STROBES THIRD FLOOR	
18	SMOKE/HEAT DETECTORS FIRST FLOOR	
19	SMOKE/HEAT DETECTORS SECOND FLOOR	
20	SMOKE/HEAT DETECTORS THIRD FLOOR	
21	SPARE	
22	SPARE	
23	DUCT DETECTOR(S) - MUA #1	
24	DUCT DETECTOR(S) - AC #1	
25	DUCT DETECTOR(S) - AC #2	
26	DUCT DETECTOR(S) - AC #3	
27	SPARE	
28	SPARE	
29	THRU (29) SPACE	

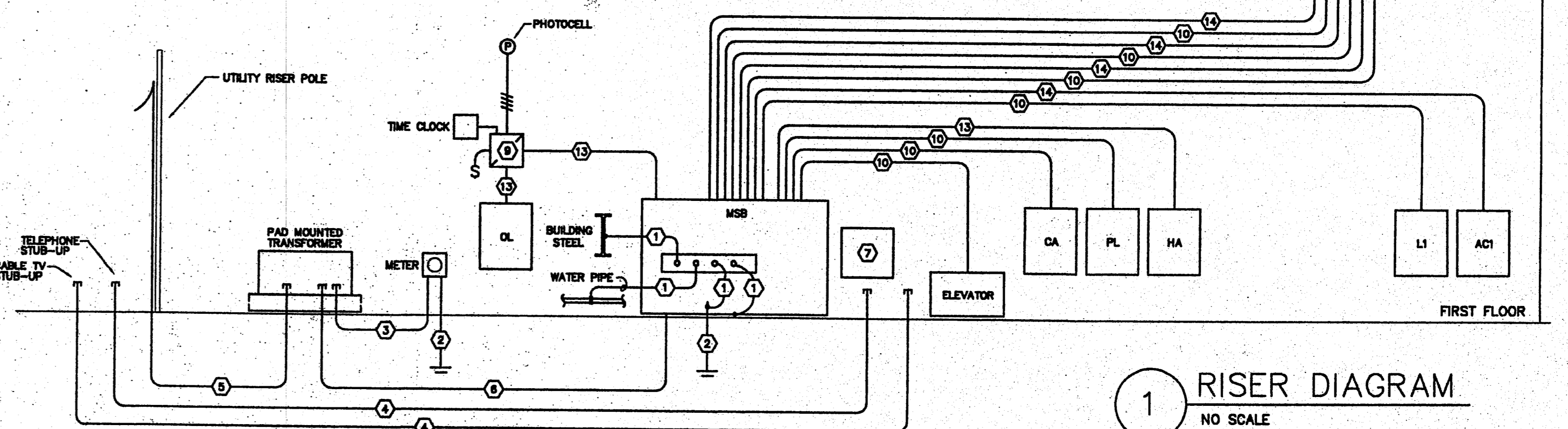
TYPICAL MATV/ TELEPHONE RISER

NO SCALE

NOTE
ELECTRICAL CONTRACTOR SHALL PROVIDE ALL RIGID CONDUIT FOR ANTENNAS INSTALLATION AS REQUIRED BY EQUIPMENT MANUFACTURER



RISER DIAGRAM SCHEDULE	
1	1-#4/0 BARE IN 1" C. TO SERVICE GROUND
2	3/4" X 15' COPPERWELD GROUND ROD
3	1" CONDUIT (EMPTY) FOR METER WITH PULL STRING
4	3" PVC CONDUIT WITH PULL STRING
5	2-4" PVC CONDUITS FOR PRIMARY
6	7 PARALLEL RUNS OF 4-750CMIL 4" C.
7	4"x4" PLYWOOD TELEPHONE BACKBOARD
8	4-#3/0, 1-#6G, 2" C.
9	3 POLE, 400 AMP LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE
10	4-#4/0, 1-#6G, 2 1/2" C.
11	4-#2, 1-#6G, 1 1/4" C.
12	4-#6, 1-#6G, 1" C.
13	2 PARALLEL RUNS OF 4-#3/0, 1-#2G, 2" C.
14	3 PARALLEL RUNS OF 4-#3/0, 1-#1G, 2" C.
15	



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