



MCW Consultants Ltd.

Site Instruction

Date: December 3, 2017

Queen's Quay Terminal
207 Queen's Quay West, Suite 615
Toronto, Ontario M5J 1A7

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Project Name: AQUAVISTA - Bayside

Client: TRIDEL Corporation

To: TRIDEL Corporation

Attention: Chadi Loza

Fax number: -

Project 8489D

No.:

SI No.: E 035

Page No.: 1 of 1+ 11 attached

Office: Toronto

From: Sunanda Perera

Distribution: Vince Mirarchi –TRIDEL
Chadi Loza - TRIDEL
Vincent Crocitto - TRIDEL
Vince Mirarchi - DELTERA
Al Medeiros –MCW
Mark Furtado-MCW
Tao Li - MCW

Provide itemized labour, equipment and material costs for Work listed below. Do not proceed with any of the listed Work prior to issuance of signed Change Order.

Title: Revision -AC units new power requirement 600V to 208V

Specification:

Spec	Issued	Items
Panel Schedules	Yes	- Two new panels '2P1RCME' and 2P1RCM are added. - Panel schedules '2P1MRAM', '6P1MRAM', 6P1RCM' & '6P1RCME' changed by adding breakers as highlighted and leaving the breakers assigned previously for 600V AC units.

Electrical:

Drawing No.	Drawing Issued	Items
E3-01-RC	Yes	Riser diagram has been modified to show two new panel additions along with two new transformer additions.

ME Schedule:

Drawing No.	Drawing Issued	Items
ME-04,05	NO	Circuit numbering modified for ACUC 01~04 + indoor units for Condo and ACA-01,02 + Indoor units for Artscape.

Reason for Issue – Owner Request/ Mechanical Contractor proposed units as cost savings.

End of SI-E035

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

225 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

225		AMP MAINS		2P1RCM			JOB NAME: Aquavista							
MLO		MAIN BREAKER												
DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE			CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
						a	b	c						
Unitary DX Unit ACC-01					1a	1249			2a	35				Air Cooled Condenser Unit ACUC-01
				15		303			4b					
					3b		1249							
Unitary DX Unit ACC-02					5c			1249	6c	35				Air Cooled Condenser Unit ACUC-02
				15			303		8a					
					7a	1249		303			10b			
Unitary DX Unit ACC-03					9b		1249		12c	35				Air Cooled Condenser Unit ACUC-03
				15		303								
					11c		1249		303					
					13a	1249			14a	35				Air Cooled Condenser Unit ACUC-03
					15b		1249		16b					
					17c			1249	18c					
					19a				20a	15				SPARE
					21b				22b					
					23c				24c					
						4656	4656	4353	PANEL TYPE: TYPE1-SPRINKLER PROOF					
						TOTAL WATT			LOCATION: P1					
						TOTAL AMP								

TOTAL WATT
TOTAL AMP

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

125 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

125		AMP MAINS		2P1RCME			JOB NAME:							
MLO		MAIN BREAKER												
DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIXT.	BRKR SIZE	CCT. NO.	LOAD PER PHASE			CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
						a	b	c						
Air Cooled Condenser Unit ACUC-04				35	1a	605			2a	15				Unitary DX Unit ACC-04
					3747			4b						
					3b		605		6c					Space
					5c		3747		8a					Space
Spare				15	7a				10b					Space
					9b				12c					Space
					11c									
						16785.3	16785.3	16180	PANEL TYPE: TYPE1-SPRINKLER PROOF					
						49751			LOCATION: P1					
						48								



TOTAL WATT

TOTAL AMP

TOTAL WATT
TOTAL AMP

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

100 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

100		AMP MAINS				2P1MRAM			JOB NAME: Aquavista					
MLO		MAIN BREAKER				LOAD PER PHASE			CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	a	b	c						
Exhaust Fan EFA-04,05				15	1a	0 500			2a	15				For Metering
Exhaust Fan EFA-06,07				15	3b		0 500		4b					
Entance Heater EHA-01,02				15	5c			0 690	6c					
Entance Heater EHA-03,04				15	7a	1160 690			8a	15				VFCA-01 OFFICE L1M
Unit Heater UHA-06				15	9b		1160 230		10b	15				VFCA-02 OFFICE L1M
Unit Heater UHA-07				15	11c			1160 230	12c	15				VFCA-03 OFFICE L1M
SPARE				20	13a	200			14a	15				AUTO FAUCET B.F. W.C. LEVEL 1M
SPARE				20	15b		400		16b	15	100		4	MOTORIZED DAMPER BOILER/CHILLER RM P4
Unitary DX Unit ACA-01				15	17c				18c	15				Spare
							540	20a	15				Spare	
					19a		540							
Unitary DX Unit ACA-02				15	21b		540		22b	15				Spare
							841	24c	35				Air Cooled Condenser Unit ACUA-01	
					23c		540	26a						
Air Cooled Condenser Unit ACUA-02				35	25a	841 841			28b					
					27b		841 841							
					29c			841	30c	15				Spare
								841	32a					
SPARE				15	31a									
									34b					
					33b									
									36c					
					35c									
									38a					
					37a									
									40b					

PANEL SCHEDULE

347/600 VOLTS

3 PHASE 3 WIRE

200 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

						6P1MRAM								
						LOAD PER PHASE			CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIXT.	BRKR SIZE	CCT. NO.	a	b	c						
Fan Coil Unit HFCA-01				15	1a	1195			2a	15				For Metering
					3b		1195		4b					
					5c			1195	6c					
					7a	2324			8a					
Spare				15	9b	996	2324		10b	20				Spare
					11c		996		12c					
					13a	2324			14a					
					15b	996	2324		16b	20				
Spare				15	17c		996		18c					Spare
					19a	2324			20a					
					21b	996	2324		22b	20				
					23c		996		24c					
Unitary DX Unit ACA-03				15	25a	2324			26a					Air Cooled Condenser Unit ACUA-03
					27b	996	2324		28b	20				
					29c		996		30c					
					31a	2324			32a					
Unitary DX Unit ACA-04				15	33b	996	2324		34b	15				Spare
					35c		996		36c					
					37a	2324			38a					
					39b	996	2324		40b	15				

PANEL SCHEDULE

347/600 VOLTS

3 PHASE 3 WIRE

200 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

						6P1RCM								
						LOAD PER PHASE			CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIXT.	BRKR SIZE	CCT. NO.	a	b	c						
Make Up Air Unit MACU-01 exhaust Fan				15	1a	1233			2a	20				Spare
					3b		1233		4b					
					5c			1233	6c					
Make Up Air Unit MACU-01 Supply Fan				20	7a	1667			8a	15				Spare
					9b		1667		10b					
					11c			1667	12c					
Make Up Air Unit MACU-02				40	13a	3733			14a	20				Spare
					15b		3733		16b					
					17c			3733	18c					
MUA-1 Heating Pump PC-14, PC-15 (Duty standby) Each 1.1KW				15	19a	367			20a	15				Spare
					21b		367		22b					
					23c			367	24c					
MUA-1 Heating Pump PC-16, PC-17 (Duty standby) Each 2.2kW				15	25a	733			26a	20				Spare
					27b		733		28b					
					29c			733	30c					
DHW Rwcirculation Pump PC-44				15	31a	187			32a	15				Spare
					33b		187		34b					
					35c			187	36c					
								187	38a					

DHW Rwcirculation Pump PC-45				15	37a				40a	15				Metering
						187			40b					
					39b				42c					
					41c									
POOL SPLITTER SP-6POOL				30					44a	15				Spare
					43a									
						3000			46b					
					45b				48c					
										50				45 KVA Transformer
					49a				50a					
									52b					
					51b				54c					
					53c				56a					
					55a				58b					
					57b				60c					
					59c									



TOTAL WATT

TOTAL AMP

26107	26107	26107
78321		
75		

PANEL TYPE: TYPE1-SPRINKLER PROOF

LOCATION: P1

MOUNTING: Surface

PANEL SCHEDULE

347/600

VOLTS

3

PHASE

3

WIRE

200

AMP MAINS

200NA

MAIN BREAKER

JOB NUMBER:

8489D

JOB NAME:

Aquavista

6P1RCME

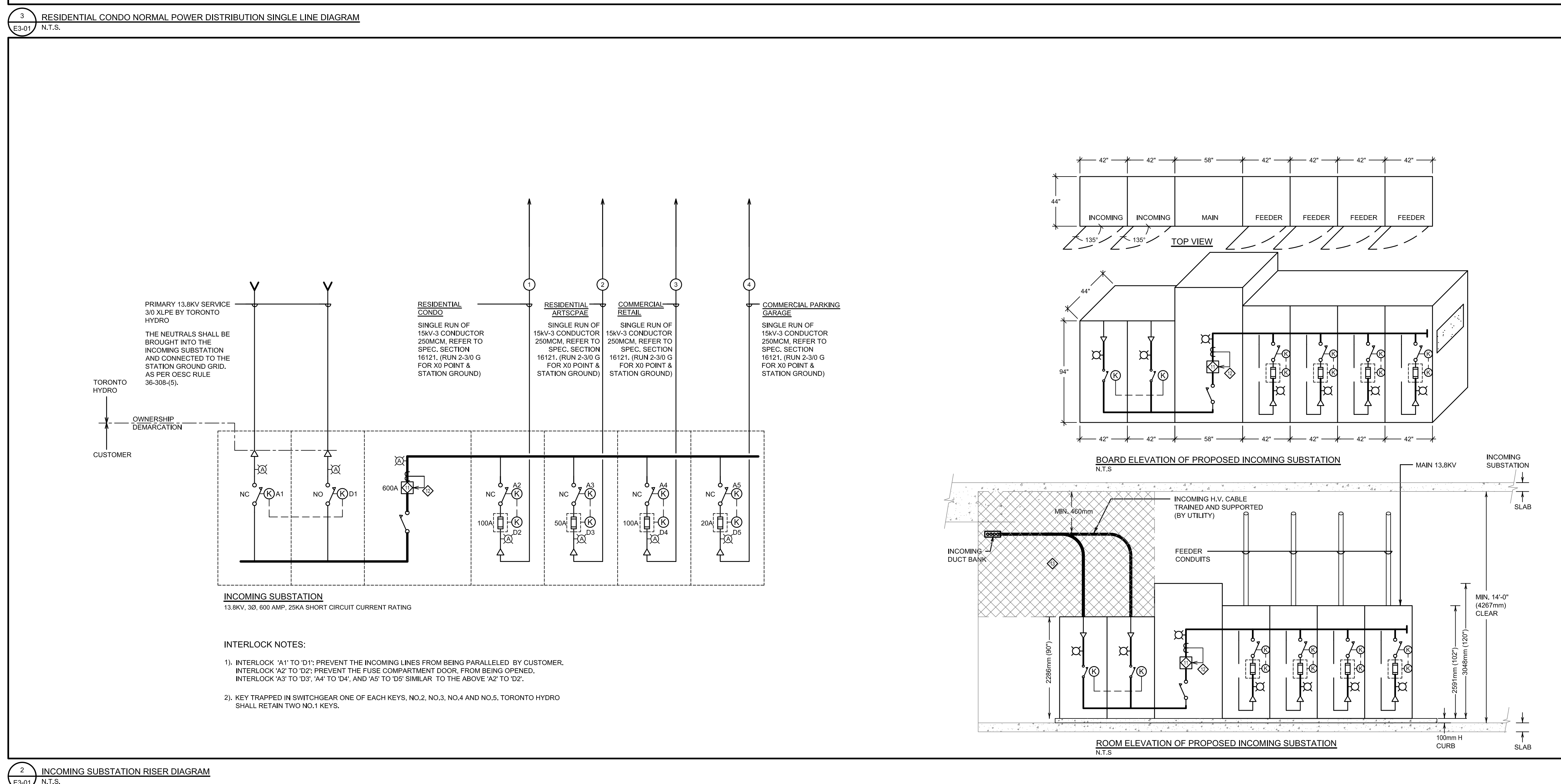
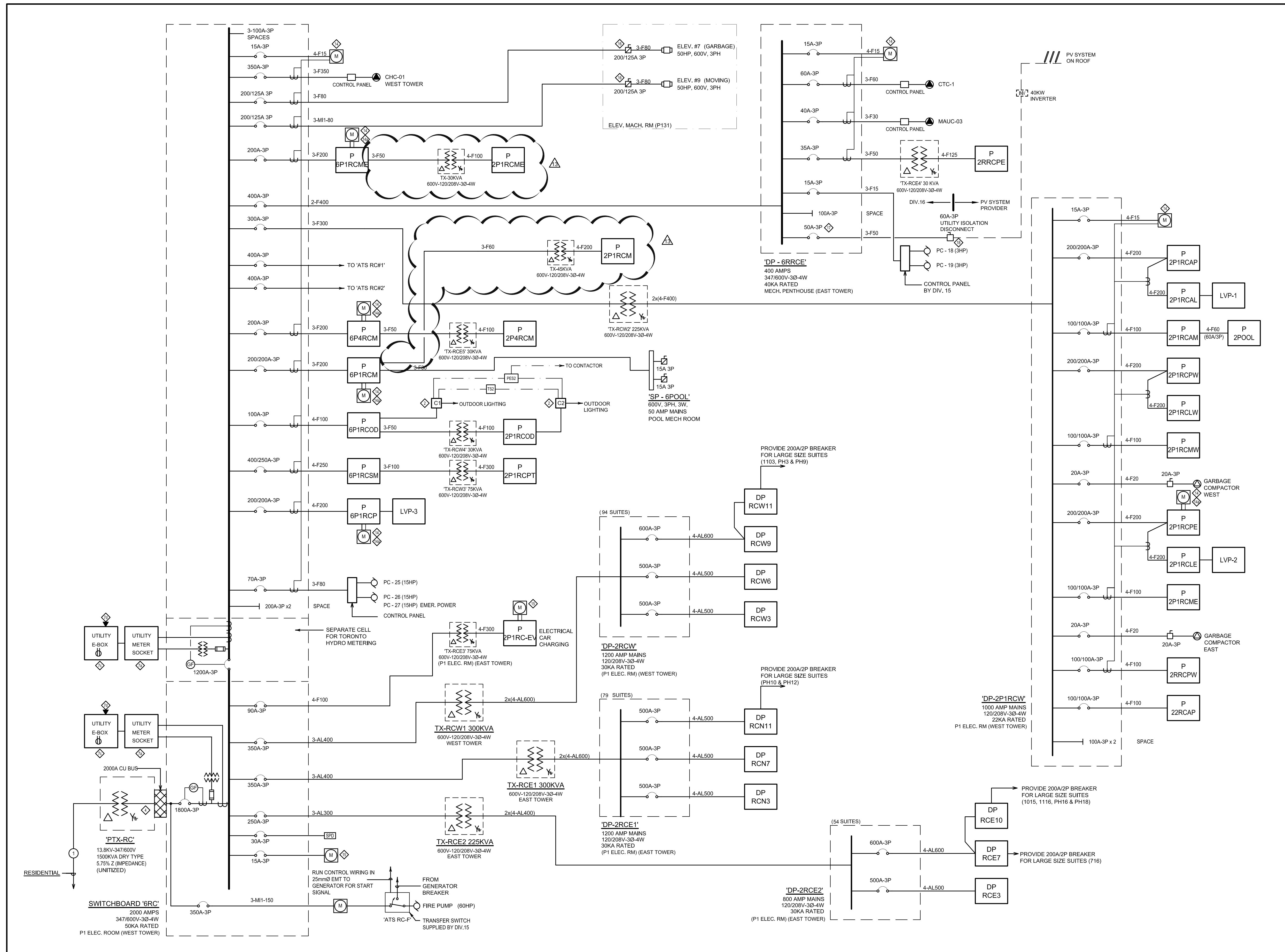
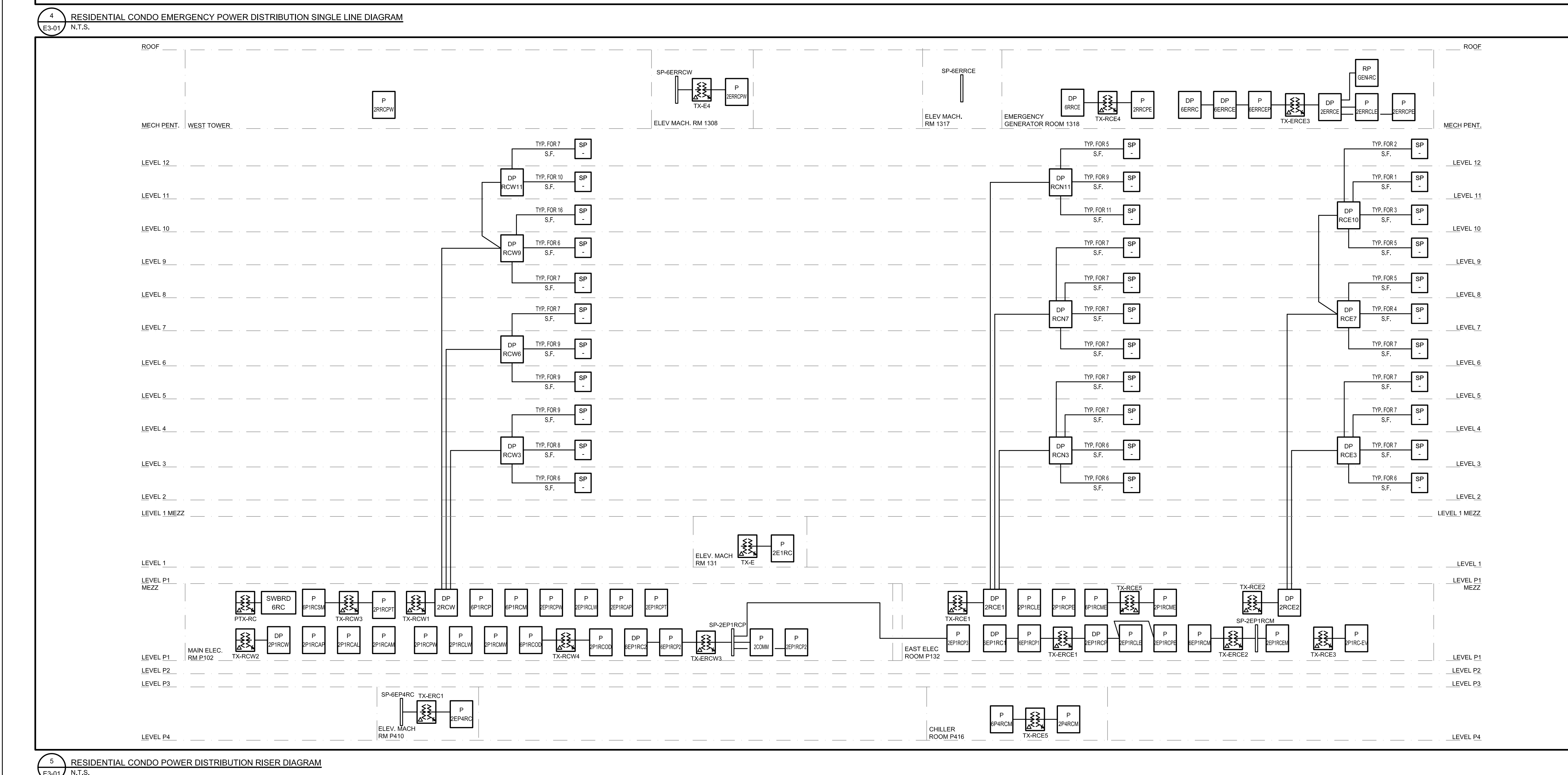
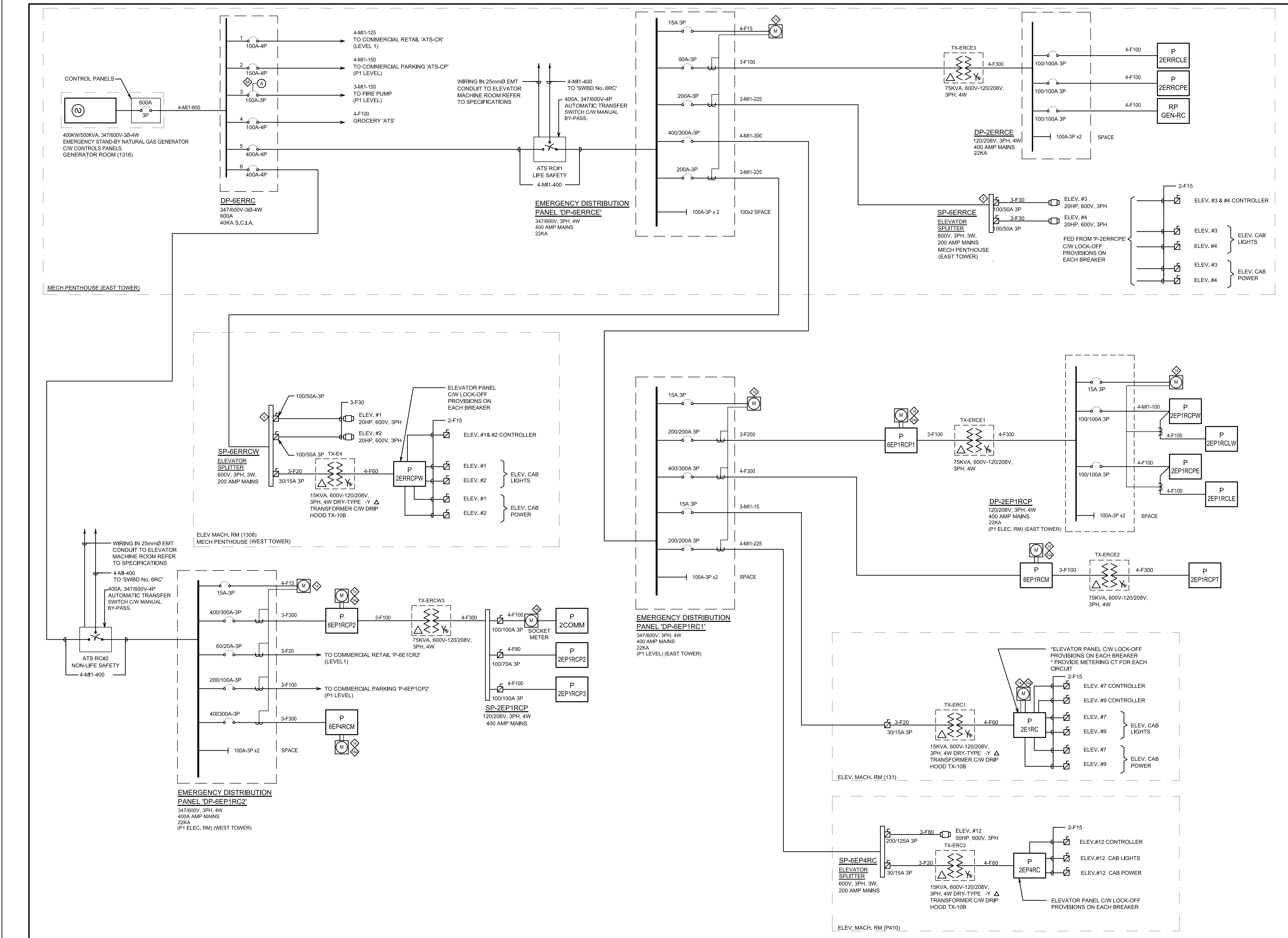
LOAD PER PHASE

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	a	b	c	CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
Exhaust Fan EFC-31				15	1a	187			2a	15				For Metering
					3b		187		4b					
					5c			187	6c					
									8a					
SPARE				20	7a				10b	15				SPARE
					9b				12c					
					11c				14a					
									16b					
SPARE				15	13a				18c	15				Spare
					15b									
					17c				20a					
									22b					
SPARE				125	19a	10000			24c	35				2P1RCME' THROUGH 30 KVA Transformer
					21b		10000							
					23c			10000	26a					
									28b					
					25a				30c					
					27b				32a					
					29c				34b					
					31a				36c					
					33b				38a					
					35c									



TOTAL AMP

MOUNTING: _____ Surface



800V, 2 HOUR FIRE RATED M/CABLE SCHEDULE

REMANUFACTURED BY PYROTEK

ONE CONDUCTOR				THREE CONDUCTORS			
WIRE BUNDLE SIZE	REF	AMP	SIZE	WIRE BUNDLE SIZE	REF	AMP	SIZE
1/2"	100	15	1/2"	3/4"	100	15	3/4"
3/4"	100	20	3/4"	1"	100	20	1"
1"	100	25	1"	1 1/4"	100	25	1 1/4"
1 1/4"	100	30	1 1/4"	1 1/2"	100	30	1 1/2"
1 1/2"	100	35	1 1/2"	1 3/4"	100	35	1 3/4"
1 3/4"	100	40	1 3/4"	2"	100	40	2"
2"	100	45	2"	2 1/2"	100	45	2 1/2"
2 1/2"	100	50	2 1/2"	3"	100	50	3"
3"	100	55	3"	3 1/2"	100	55	3 1/2"
3 1/2"	100	60	3 1/2"	4"	100	60	4"
4"	100	65	4"	4 1/2"	100	65	4 1/2"
4 1/2"	100	70	4 1/2"	5"	100	70	5"
5"	100	75	5"	5 1/2"	100	75	5 1/2"
5 1/2"	100	80	5 1/2"	6"	100	80	6"
6"	100	85	6"	6 1/2"	100	85	6 1/2"
6 1/2"	100	90	6 1/2"	7"	100	90	7"
7"	100	95	7"	7 1/2"	100	95	7 1/2"
7 1/2"	100	100	7 1/2"	8"	100	100	8"
8"	100	105	8"	8 1/2"	100	105	8 1/2"
8 1/2"	100	110	8 1/2"	9"	100	110	9"
9"	100	115	9"	9 1/2"	100	115	9 1/2"
9 1/2"	100	120	9 1/2"	10"	100	120	10"
10"	100	125	10"	10 1/2"	100	125	10 1/2"
10 1/2"	100	130	10 1/2"	11"	100	130	11"
11"	100	135	11"	11 1/2"	100	135	11 1/2"
11 1/2"	100	140	11 1/2"	12"	100	140	12"
12"	100	145	12"	12 1/2"	100	145	12 1/2"
12 1/2"	100	150	12 1/2"	13"	100	150	13"
13"	100	155	13"	13 1/2"	100	155	13 1/2"
13 1/2"	100	160	13 1/2"	14"	100	160	14"
14"	100	165	14"	14 1/2"	100	165	14 1/2"
14 1/2"	100	170	14 1/2"	15"	100	170	15"
15"	100	175	15"	15 1/2"	100	175	15 1/2"
15 1/2"	100	180	15 1/2"	16"	100	180	16"
16"	100	185	16"	16 1/2"	100	185	16 1/2"
16 1/2"	100	190	16 1/2"	17"	100	190	17"
17"	100	195	17"	17 1/2"	100	195	17 1/2"
17 1/2"	100	200	17 1/2"	18"	100	200	18"
18"	100	205	18"	18 1/2"	100	205	18 1/2"
18 1/2"	100	210	18 1/2"	19"	100	210	19"
19"	100	215	19"	19 1/2"	100	215	19 1/2"
19 1/2"	100	220	19 1/2"	20"	100	220	20"
20"	100	225	20"	20 1/2"	100	225	20 1/2"
20 1/2"	100	230	20 1/2"	21"	100	230	21"
21"	100	235	21"	21 1/2"	100	235	21 1/2"
21 1/2"	100	240	21 1/2"	22"	100	240	22"
22"	100	245	22"	22 1/2"	100	245	22 1/2"
22 1/2"	100	250	22 1/2"	23"	100	250	23"
23"	100	255	23"	23 1/2"	100	255	23 1/2"
23 1/2"	100	260	23 1/2"	24"	100	260	24"
24"	100	265	24"	24 1/2"	100	265	24 1/2"
24 1/2"	100	270	24 1/2"	25"	100	270	25"
25"	100	275	25"	25 1/2"	100	275	25 1/2"
25 1/2"	100	280	25 1/2"	26"	100	280	26"
26"	100	285	26"	26 1/2"	100	285	26 1/2"
26 1/2"	100	290	26 1/2"	27"	100	290	27"
27"	100	295	27"	27 1/2"	100	295	27 1/2"
27 1/2"	100	300	27 1/2"	28"	100	300	28"
28"	100	305	28"	28 1/2"	100	305	28 1/2"
28 1/2"	100	310	28 1/2"	29"	100	310	29"
29"	100	315	29"	29 1/2"	100	315	29 1/2"
29 1/2"	100	320	29 1/2"	30"	100	320	30"
30"	100	325	30"	30 1/2"	100	325	30 1/2"
30 1/2"	100	330	30 1/2"	31"	100	330	31"
31"	100	335	31"	31 1/2"	100	335	31 1/2"
31 1/2"	100	340	31 1/2"	32"	100	340	32"
32"	100	345	32"	32 1/2"	100	345	32 1/2"
32 1/2"	100	350	32 1/2"	33"	100	350	33"
33"	100	355	33"	33 1/2"	100	355	33 1/2"
33 1/2"	100	360	33 1/2"	34"	100	360	34"
34"	100	365	34"	34 1/2"	100	365	34 1/2"
34 1/2"	100	370	34 1/2"	35"	100	370	35"
35"	100	375	35"	35 1/2"	100	375	35 1/2"
35 1/2"	100	380	35 1/2"	36"	100	380	36"
36"	100	385	36"	36 1/2"	100	385	36 1/2"
36 1/2"	100	390	36 1/2"	37"	100	390	37"
37"	100	395	37"	37 1/2"	100	395	37 1/2"
37 1/2"	100	400	37 1/2"	38"	100	400	38"
38"	100	405	38"	38 1/2"	100	405	38 1/2"
38 1/2"	100	410	38 1/2"	39"	100	410	39"
39"	100	415	39"	39 1/2"	100	415	39 1/2"
39 1/2"	100	420	39 1/2"	40"	100	420	40"
40"	100	425	40"	40 1/2"	100	425	40 1/2"
40 1/2"	100	430	40 1/2"	41"	100	430	41"
41"	100	435	41"	41 1/2"	100	435	41 1/2"
41 1/2"	100	440	41 1/2"	42"	100	440	42"
42"	100	445	42"	42 1/2"	100	445	42 1/2"
42 1/2"	100	450	42 1/2"	43"	100	450	43"
43"	100	455	43"	43 1/2"	100	455	43 1/2"
43 1/2"	100	460	43 1/2"	44"	100	460	44"
44"	100	465	44"	44 1/2"	100	465	44 1/2"
44 1/2"	100	470	44 1/2"	45"	100	470	45"
45"	100	475	45"	45 1/2"	100	475	45 1/2"
45 1/2"	100	480	45 1/2"	46"	100	480	46"
46"	100	485	46"	46 1/2"	100	485	46 1/2"
46 1/2"	100	490	46 1/2"	47"	100	490	47"
47"	100	495	47"	47 1/2"	100	495	47 1/2"
47 1/2"	100	500	47 1/2"	48"	100	500	48"
48"	100	505	48"	48 1/2"	100	505	48 1/2"
48 1/2"	100	510	48 1/2"	49"	100	510	49"
49"	100	515	49"	49 1/2"	100	515	49 1/2"
49 1/2"	100	520	49 1/2"	50"	100	520	50"
50"	100	525	50"	50 1/2"	100	525	50 1/2"
50 1/2"	100	530	50 1/2"	51"	100	530	51"
51"	100	535	51"	51 1/2"	100	535	51 1/2"
51 1/2"	100	540	51 1/2"	52"	100	540	52"
52"	100	545	52"	52 1/2"	100	545	52 1/2"
52 1/2"	100	550	52 1/2"	53"	100	550	53"
53"	100	555	53"	53 1/2"	100	555	53 1/2"
53 1/2"	100	560	53 1/2"	54"	100	560	54"
54"	100	565	54"	54 1/2"	100	565	54 1/2"
54 1/2"	100	570	54 1/2"	55"	100	570	55"
55"	100	575	55"	55 1/2"	100	575	55 1/2"
55 1/2"	100	580	55 1/2"	56"	100	580	56"
56"	100	585	56"	56 1/2"	100	585	56 1/2"
56 1/2"	100	590	56 1/2"	57"	100	590	57"
57"	100	595	57"	57 1/2"	100	595	57 1/2"
57 1/2"	100	600	57 1/2"	58"	100	600	58"
58"	100	605	58"	58 1/2"	100	605	58 1/2"
58 1/2"	100	610	58 1/2"	59"	100	610	59"
59"	100	615	59"	59 1/2"	100	615	59 1/2"
59 1/2"	100	620	59 1/2"	60"	100	620	60"
60"	100	625	60"	60 1/2"	100	625	60 1/2"
60 1/2"	100	630	60 1/2"	61"	100	630	61"
61"	100	635	61"	61 1/2"	100	635	61 1/2"
61 1/2"	100	640	61 1/2"	62"	100	640	62"
62"	100	645	62"	62 1/2"	100	645	62 1/2"
62 1/2"	100	650	62 1/2"	63"	100	650	63"
63"	100	655	63"	63 1/2"	100	655	63 1/2"
63 1/2"	100	660	63 1/2"	64"	100	660	64"
64"	100	665	64"	64 1/2"	100	665	64 1/2"
64 1/2"	100	670	64 1/2"	65"	100	670	65"
65"	100	675	65"	65 1/2"	100	675	65 1/2"
65 1/2"	100	680	65 1/2"	66"	100	680	66"
66"	100	685	66"	66 1/2"	100	685	66 1/2"
66 1/2"	100	690	66 1/2"	67"	100	690	67"
67"	100	695	67"	67 1/2"	100	695	67 1/2"
67 1/2"	100	700	67 1/2"	68"	100	700	68"
68"	100	705	68"	68 1/2"	100	705	68 1/2"
68 1/2"	100	710	68 1/2"	69"	100	710	69"
69"	100	715	69"	69 1/2"	100	715	69 1/2"
69 1/2"	100	720	69 1/2"	70"	100	720	70"
70"	100	725	70"	70 1/2"	100	725	70 1/2"
70 1/2"	100	730	70 1/2"	71"	100	730	71"
71"	100	735	71"	71 1/2"	100	735	71 1/2"
71 1/2"	100	740	71 1/2"	72"	100	740	72"
72"	100	745	72"	72 1/2"	100	745	72 1/2"
72 1/2"	100	750	72 1/2"	73"	100	750	73"
73"	100	755	73"	73 1/2"	100	755	73 1/2"
73 1/2"	100	760	73 1/2"	74"	100	760	74"
74"	100	765	74"	74 1/2"	100	765	74 1/2"
74 1/2"	100	770	74 1/2"	75"	100	770	75"
75"	100	775	75"	75 1/2"	100	775	75 1/2"
75 1/2"	100	780	75 1/2"	76"	100	780	76"
76"	100	785	76"	76 1/2"	100	785	76 1/2"
76 1/2"	100	790	76 1/2"	77"	100	790	77"
77"	100	795	77"	77 1/2"	100	795	77 1/2"
77 1/2"	100	800	77 1/2"	78"	100	800	78"
78"	100	805	78"	78 1/2"	100	805	78 1/2"
78 1/2"	100	810	78 1/2"	79"	100	810	79"
79"	100	815	79"	79 1/2"	100	815	79 1/2"
79 1/2"	100	820	79 1/2"	80"	100	820	80"
80"	100	825	80"	80 1/2"	100	825	80 1/2"
80 1/2"	100	830	80 1/2"	81"	100	830	81"
81"	100	835	81"	81 1/2"	100	835	8