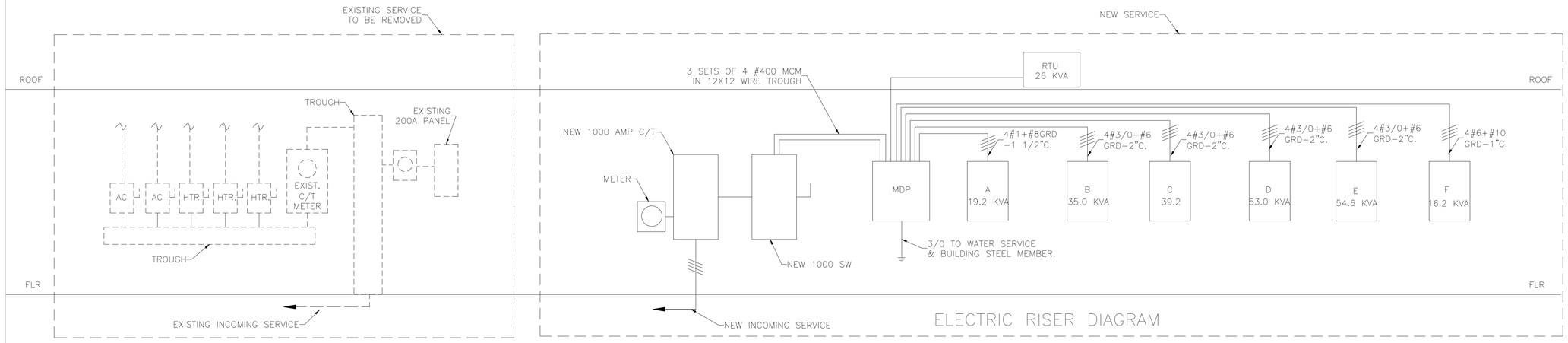

ELECTRIC RISER DIAGRAM

PANEL SCHEDULE

PANEL – "A"
MOUNT: SURFACE
VOLTS: 120/208 V– 3 Ø – 4W
MAIN: LUGS ONLY
MAIN BUS 125 AMP

CIRC.	ITEM	BREAKER TRIP	BREAKER POLE	BREAKER VOLTS	KVA	KVA	BREAKER TRIP	BREAKER POLE	BREAKER VOLTS	ITEM	CIRC.
1	WASHERS	20	1	120	1.2	1.2	20	1	120	WASHERS	2
3											4
5	WASHERS	20	1	120	1.2	1.2	20	1	120	WASHERS	6
7											8
9	WASHERS	20	1	120	1.2	1.2	20	1	120	WASHERS	10
11											12
13	WASHERS	20	1	120	1.2	1.2	20	1	120	WASHERS	14
15											16
17	WASHERS	20	1	120	1.2	1.2	20	1	120	WASHERS	18
19											20
21	WASHERS	20	1	120	1.2	1.2	20	1	120	WASHERS	22
23											24
25	WASHERS	20	1	120	1.2	1.2	20	1	120	WASHERS	26
27											28
29	WASHERS	20	1	120	1.2	1.2	20	1	120	WASHERS	30
31											32
33											34
35											36
37											38
39											40
41											42

TOTAL CONNECTED KVA = 19.20
DEMAND KVA = 19.60

PANEL SCHEDULE

PANEL – "B"
MOUNT: SURFACE
VOLTS: 120/208 V– 3 Ø – 4W
MAIN: LUGS ONLY
MAIN BUS 200 AMP

CIRC.	ITEM	BREAKER TRIP	BREAKER POLE	BREAKER VOLTS	KVA	KVA	BREAKER TRIP	BREAKER POLE	BREAKER VOLTS	ITEM	CIRC.
1	WASHERS	20	3	208	2.5	2.5	20	3	208	WASHERS	2
3											4
5	WASHERS	20	3	208	2.5	2.5	20	3	208	WASHERS	6
7											8
9	WASHERS	20	3	208	2.5	2.5	20	3	208	WASHERS	10
11											12
13	WASHERS	20	3	208	2.5	2.5	20	3	208	WASHERS	14
15											16
17	WASHERS	20	3	208	2.5	2.5	20	3	208	WASHERS	18
19											20
21	WASHERS	20	3	208	2.5	2.5	20	3	208	WASHERS	22
23											24
25	WASHERS	20	3	208	2.5	2.5	20	3	208	WASHERS	26
27											28
29											30
31											32
33											34
35											36
37											38
39											40
41											42

TOTAL CONNECTED KVA = 35.0
DEMAND KVA = 36.1

PANEL SCHEDULE

PANEL – "C"
MOUNT: SURFACE
VOLTS: 120/208 V– 3 Ø – 4W
MAIN: LUGS ONLY
MAIN BUS 150 AMP

CIRC.	ITEM	BREAKER TRIP	BREAKER POLE	BREAKER VOLTS	KVA	KVA	BREAKER TRIP	BREAKER POLE	BREAKER VOLTS	ITEM	CIRC.
1	WASHERS	20	2	208	2.8	2.8	20	2	208	WASHERS	2
3											4
5	WASHERS	20	2	208	2.8	2.8	20	2	208	WASHERS	6
7											8
9	WASHERS	20	2	208	2.8	2.8	20	2	208	WASHERS	10
11											12
13	WASHERS	20	2	208	2.8	2.8	20	2	208	WASHERS	14
15											16
17	WASHERS	20	2	208	2.8	2.8	20	2	208	WASHERS	18
19											20
21	WASHERS	20	2	208	2.8	2.8	20	2	208	WASHERS	22
23											24
25	WASHERS	20	2	208	2.8	2.8	20	2	208	WASHERS	26
27											28
29											30
31											32
33											34
35											36
37											38
39											40
41											42

TOTAL CONNECTED KVA = 39.2
DEMAND KVA = 40.3

PANEL SCHEDULE

PANEL – D
MOUNT: SURFACE
VOLTS: 120/208 V– 3 Ø – 4W
MAIN: LUGS ONLY
MAIN BUS 200 AMP

CIRC.	ITEM	BREAKER TRIP	BREAKER POLE	BREAKER VOLTS	KVA	KVA	BREAKER TRIP	BREAKER POLE	BREAKER VOLTS	ITEM	CIRC.
1	WASHERS	20	2	208	3.5	3.5	20	2	208	WASHERS	2
3											4
5	WASHERS	20	2	208	3.5	3.5	20	2	208	WASHERS	6
7											8
9	WASHERS	20	2	208	3.5	3.5	20	2	208	WASHERS	10
11											12
13	WASHERS	20	2	208	3.5	3.5	20	2	208	WASHERS	14
15											16
17	WASHERS	20	2	208	3.5	3.5	20	2	208	WASHERS	18
19											20
21	WASHERS	20	2	208	4.5	4.5	20	2	208	WASHERS	22
23											24
25	WASHERS	20	2	208	4.5	4.5	20	2	208	WASHERS	26
27											28
29											30
31											32
33											34
35											36
37											38
39											40
41											42

TOTAL CONNECTED KVA = 53.0
DEMAND KVA = 54.6

PANEL SCHEDULE

PANEL – "E"
MOUNT: SURFACE
VOLTS: 120/208 V– 3 Ø – 4W
MAIN: LUGS ONLY
MAIN BUS 200 AMP

CIRC.	ITEM	BREAKER TRIP	BREAKER POLE	BREAKER VOLTS	KVA	KVA	BREAKER TRIP	BREAKER POLE	BREAKER VOLTS	ITEM	CIRC.
1	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	2
3	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	4
5	DRYERS	20	2	120	1.3	1.3	20	2	120	DRYERS	6
7	DRYERS	20	2	120	1.3	1.3	20	2	120	DRYERS	8
9	DRYERS	20	2	120	1.3	1.3	20	2	120	DRYERS	10
11	DRYERS	20	2	120	1.3	1.3	20	2	120	DRYERS	12
13	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	14
15	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	16
17	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	18
19	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	20
21	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	22
23	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	24
25	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	26
27	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	28
29	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	30
31	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	32
33	DRYERS	20	2	120	1.6	1.6	20	2	120	DRYERS	34
35											36
37											38
39											40
41											42

TOTAL CONNECTED KVA =54.60
DEMAND KVA =56.2

PANEL SCHEDULE

PANEL – "F"
MOUNT: SURFACE
VOLTS: 120/208 V– 3 Ø – 4W
MAIN: LUGS ONLY
MAIN BUS 100 AMP

CIRC.	ITEM	BREAKER TRIP	BREAKER POLE	BREAKER VOLTS	KVA	KVA	BREAKER TRIP	BREAKER POLE	BREAKER VOLTS	ITEM	CIRC.
1	RECEPTACLE	20	1	120	1.0	0.6	20	1	120	RECEPTACLE	2
3	RECEPTACLE	20	1	120	1.2	0.6	20	1	120	RECEPTACLE	4
5	SHOW WINDOW	20	1	120	0.6	0.4	20	1	120	SHOW WINDOW	6
7	CEILING FANS	20	1	120	1.0	1.0	20	1	120	CEILING FANS	8
9	SPACE					0.8	20	1	120	LIGHTS	10
11	LIGHTS	20	1	120	0.7	1.0	20	1	120	LIGHTS	12
13	LIGHTS	20	1	120	0.6	0.7	20	1	120	LIGHTS	14
15	LIGHTS	20	1	120	1.0	0.6	20	1	120	LIGHTS	16
17	LIGHTS	20	1	120	0.6	0.8	20	1	120	LIGHTS	18
19	SIGNAGE	20	1	120	1.0	1.0	20	1	120	SIGNAGE	20
21	SIGNAGE	20	1	120	1.0						22
23											24
25											26
27											28
29											30

TOTAL CONNECTED KVA =16.2
DEMAND KVA =16.7

MDP SCHEDULE: 1,000A–120/208V 30/– 4W, 1,000A MAIN C/B

NO.	SERVING	TRIP	FRAME	POLES	KVA
1	PANEL–A	100A	100A	3	19.2
2	PANEL–B	200A	225A	3	35.0
3	PANEL–C	150A	225A	3	39.2
4	PANEL–D	200A	225A	3	53.0
5	PANEL–E	200A	225A	3	54.6
6	PANEL–F	60A	100A	3	16.2
7	ROOF TOP UNIT	50A	100A	3	26.0
8					
9					
10					
11					

CONNECTED LOAD = 242.2 KVA= 675.5 AMP + 125% LIGHTS= 844.37 AMP
DEMAND LOAD = 250.5 KVA= 695.5 AMP + 125% LIGHTS = 869.75 AMP

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Issue Date:

Revisions

No.	Date	Description

Permit Set
Oct. 15, 2009

TROPICANA LAUNDROMAT
LAUNDROMAT FIT-UP PLANS
8010 FENTON STREET
SILVER SPRING MD, 20910

Project Number: Drawn By:

Designed By: Checked By:

Sheet Title: ELECTRICAL GENERAL

Sheet Number: **E-3**