

3.01 INSTALLATION AND TESTING:

- A. General: Install electrical systems as shown, in accordance with the manufacturer's written instructions, the applicable codes and regulations and owner's instructions.
- B. Conductor Tests: Megger tests on insulation shall be made on the conductors before seals are poured. The test is mandatory for incoming service conductors and motor leads to submerged pumps. The resistance between conductors and between all conductors and ground shall not be less than 100 megohms for all circuits less than 500 volts. Test ground conductors for continuity.
- C. Equipment Tests: Operational tests shall be performed on all electrical equipment to prove satisfactory performance. This shall include mechanical and electrical operation from all control points and operation of relays and all safety devices.

3.02 ELECTRICAL WORK CLOSEOUT:

- A. All site electrical systems must have passed functional testing and be fully operable.
- B. All site electrical systems must pass inspection by the local approving authorities.
- C. All buried site power and control subsystems must have passed appropriate conductor megger testing.
- D. All electrical panels must have type written schedules that accurately identify breakers by function and panel position.
- E. All conduits and conductors must be properly tag identified.
- F. All unanticipated electrical work provided by this contract intended for interface with another contractor must be properly secured.
- G. All appropriate conduit seals for hazardous locations must be poured.
- H. All spare conduits shall have a pull wire installed and shall be capped on both ends.
- I. All electrical systems must pass the inspection of the owner's representative.
- J. All electrical as built drawings must be in the possession of the owner's representative.

5/26/75
01/22/76

CONCRETE SCHEDULE - 3 PHASE 120/240 VOLT (3 WIRE) RETAIL LOCATIONS (EXCEPT ELECTRICAL CONFIGURATIONS)

NO.	DESCRIPTION OF CONDUIT/BREAKER POSITION	TERMINAL	TO	WIRE SIZE	WIRE AMP	VOLTS	NO.	DESCRIPTION OF CONDUIT/BREAKER POSITION	TERMINAL	TO	WIRE SIZE	WIRE AMP	VOLTS	NO.	DESCRIPTION OF CONDUIT/BREAKER POSITION	TERMINAL	TO	WIRE SIZE	WIRE AMP	VOLTS
1	VARIABLES	MAIN SERVICE HOUSING	1.0	VARIES	250	240	11	DISPENSER CABLE (6 HOSE WPS)	PANEL B & P KIOSK	EACH DISPENSER	14	14	120	12	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	INTERLOCK INTERCONNECTION BOX	DISPENSER INTERLOCK	1000	2	12
2	2.5	CANADIAN POWER HOUSING	1.0	2.5	154	208	13	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	LEAK DETECTOR	12	2	12	13	LEAK DETECTOR SIGNAL (3-23)	PANEL B & P KIOSK	LEAK DETECTOR	18	2	12
3	2.5	CANADIAN CONTROL HOUSING	1.0	2.5	154	208	14	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	TANK GAUGE (FUTURE)	18	2	18	14	TANK GAUGING SIGNAL (18-28)	TANK GAUGE (FUTURE)	TANK GAUGE (FUTURE)	18	2	12
4	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	15	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	SPARE	12	20	208	16	SPARE	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
5	1.25	SUPPORT BUILDING HOUSING	1.0	1.25	91	208	17	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-1	12	20	208	17	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-2	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
6	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	18	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-3	12	20	208	18	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-4	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
7	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	19	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-5	12	20	208	19	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-6	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
8	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	20	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-7	12	20	208	20	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-8	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
9	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	21	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-9	12	20	208	21	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-10	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
10	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	22	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-11	12	20	208	22	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-12	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
11	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	23	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-13	12	20	208	23	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-14	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
12	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	24	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-15	12	20	208	24	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-16	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
13	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	25	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-17	12	20	208	25	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-18	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
14	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	26	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-19	12	20	208	26	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-20	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
15	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	27	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-21	12	20	208	27	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-22	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
16	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	28	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-23	12	20	208	28	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-24	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
17	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	29	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-25	12	20	208	29	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-26	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
18	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	30	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-27	12	20	208	30	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-28	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
19	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	31	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-29	12	20	208	31	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-30	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
20	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	32	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-31	12	20	208	32	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-32	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
21	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	33	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-33	12	20	208	33	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-34	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
22	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	34	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-35	12	20	208	34	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-36	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
23	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	35	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-37	12	20	208	35	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-38	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
24	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	36	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-39	12	20	208	36	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-40	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
25	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	37	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-41	12	20	208	37	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-42	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
26	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	38	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-43	12	20	208	38	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-44	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
27	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	39	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-45	12	20	208	39	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-46	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
28	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	40	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-47	12	20	208	40	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-48	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
29	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	41	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-49	12	20	208	41	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-50	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
30	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	42	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-51	12	20	208	42	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-52	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
31	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	43	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-53	12	20	208	43	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-54	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
32	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	44	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-55	12	20	208	44	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-56	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
33	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	45	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-57	12	20	208	45	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-58	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
34	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	46	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-59	12	20	208	46	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-60	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
35	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	47	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-61	12	20	208	47	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-62	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
36	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	48	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-63	12	20	208	48	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-64	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
37	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	49	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-65	12	20	208	49	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-66	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
38	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	50	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-67	12	20	208	50	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-68	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
39	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	51	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-69	12	20	208	51	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-70	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
40	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	52	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-71	12	20	208	52	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-72	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
41	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	53	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-73	12	20	208	53	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-74	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
42	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	54	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-75	12	20	208	54	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-76	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
43	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	55	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-77	12	20	208	55	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-78	PANEL C & P KIOSK	DOWN LIGHTS (P CANOPY)	12	20	208
44	2.5	CANADIAN SIGNAL (1-1)	1.0	2.5	154	208	56	DISPENSER INTERLOCK SIGNAL (BREAKER FOUR TIMES 150 WIRE ALTOGETHER)	PANEL B & P KIOSK	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-79	12	20	208	56	CANOPY DOWN LIGHTS (18-20W-SM) HOUSING-80	PANEL C & P KIOSK	DOWN LIGHTS			