

### **Corrective Work Order #124185**

**Contract:** MOTSNR  
**Location:** SW Marine Dr. @ 16th Ave  
**Instructions:** N/B 2nd light from start, 250w hps dim.  
**Status:** Admin Complete  
**Source:** CESC - EMA  
**PO:**  
**RCMP#:**  
**Cust Job:**  
**Permit#:**  
**Problem:** Street Lighting Outage  
**Cause:** General  
**Date Received:** 20210112 21:14

20210114 EMA Truck 301. Installed 3 new 28uf capacitor. Light now at regular brightness. Repairs complete.

# Quality Control Check Sheet



## Service Panel & Kiosk AM E-310.1

Location: **SW Marine Dr. @ 16th Ave**

Control #: **UBC1.1800**

Latitude: **49.252096**

Initials: **TDE**

Patrol: **Patrol 3 - UBC**

Longitude: **-123.24668**

Date: **20210316 18:47**

WO#: **125604**

Patrol Sequence: **090**

1	Clear any build up of sand, overgrown vegetation, etc, around the cabinet.	<input checked="" type="checkbox"/>
2	Check the cabinet exterior/interior for corrosion, damage and graffiti.	<input checked="" type="checkbox"/>
3	Paint rust spots and remove graffiti as required.	<input checked="" type="checkbox"/>
4	Check that the service panel, service conduit, service entrances and service ground conduits are free of damage and corrosion.	<input checked="" type="checkbox"/>
5	Check to ensure the doors operate properly and fit well, the door gaskets are in place. Lubricate as required.	<input checked="" type="checkbox"/>
6	Clean the interior of the cabinet. Replace any filters (kiosks only) if they are dirty and cannot be cleaned on-site.	<input checked="" type="checkbox"/>
7	Ensure the service ground connection and all bonding is mechanically sound.	<input checked="" type="checkbox"/>
8	Ensure all wiring is tidy and terminated in the panel. If any un-terminated wiring is present ensure it is capped/taped to avoid exposed conductors.	<input checked="" type="checkbox"/>
9	Ensure all electrical connections are tight.	<input checked="" type="checkbox"/>
10	Ensure the service entrance bushing is secure.	<input checked="" type="checkbox"/>
11	Ensure all covers are secure.	<input checked="" type="checkbox"/>
12	Check the cabinet interior to ensure there is no condensation, poor drainage or water leakage.	<input checked="" type="checkbox"/>
13	For kiosk cabinets, check fan and cooling thermostats, cycle on and off and leave set at 7.2 degrees C.	n/a
14	Use the test switch to check the operation of the lighting contactor.	<input checked="" type="checkbox"/>
15	Clean or replace components if the contactor is noisy or not operational.	<input checked="" type="checkbox"/>
16	Ensure the circuit directory is complete and legible.	<input checked="" type="checkbox"/>
17	Measure the circuit loading and record if over 80% of circuit breaker rating.	<input checked="" type="checkbox"/>
18	Turn test switch off before leaving. Ensure padlock is installed.	<input checked="" type="checkbox"/>
19	Report any corrective work under "Corrective maintenance Notes" for scheduling of deficiency correction.	<input checked="" type="checkbox"/>
20	Compare site equipment to what is listed in SerVace for this site. Update the SerVace site equipment list if necessary.	<input checked="" type="checkbox"/>

## Equipment:

ID	Model	Description	Qty	Serial Number	Mfg Date	Install Date
741	150WHPS	Street Lighting	1			
396	250WHPS	Street Lighting	44			
2437	60A	Service Panel or Kiosk	1			
4449	69WPUL	Pedestrian Underpass Lighting	12			
3455	AL1100	Uninterruptible Power Supply	1			20110211
2150	ISFL	Island Flasher	3			

1289	LMD8000	Traffic Signal Controller Unit Type	1			
1788	LN12E	Malfunction Management Unit	1			
1545	MCAB	Traffic Controller Cabinet	1			

**20210316 18:47 Note by Tom DeWolff**

Completed maintenance at panel at signal and at the panel on the n/e corner right turn slot. Painted outside of panel with galvanizing spray. Door has small hole in it.

# Quality Control Check Sheet



## Electrical Patrol (Bi-Monthly) E-800

Location: **SW Marine Dr. @ 16th Ave**

Control #: **UBC1.1800**

Latitude: **49.252096**

Initials: **TDE**

Patrol: **Patrol 3 - UBC**

Longitude: **-123.24668**

Date: **20210316 18:49**

WO#: **125989**

Patrol Sequence: **090**

1	Prestart Check: Turn ON any street lighting.	<input checked="" type="checkbox"/>
2	Check if the junction box covers fit well and are free of damage.	<input checked="" type="checkbox"/>
3	Check if the service panels, kiosks, exposed conduit and related hardware are free of damage and all doors are locked and secure.	<input checked="" type="checkbox"/>
4	Check if overhead conductors and support cables are free of damage.	<input checked="" type="checkbox"/>
5	Drive by all lighting and check that the fixtures are all illuminated and free of damage.	<input checked="" type="checkbox"/>
6	Check that all Post Mounted Flashers are working and are free of damage.	<input checked="" type="checkbox"/>
7	Check all Advance Warning Sign faces and clean them if they are dirty. If the sign is not safely accessible for cleaning, create a new corrective (COS) work order for cleaning and note any special access conditions.	n/a
8	Check the operation and condition of all Advance Warning Signs. Ensure that they are operating in sync with the intersection (if applicable) and are free of damage.	n/a
9	Check that all poles are free of major damage.	<input checked="" type="checkbox"/>
10	Check that all signboards with signlighters are illuminated.	n/a
11	Check that all loops: are properly situated in each lane, are working correctly, and have functional detectors.	<input checked="" type="checkbox"/>
12	Check that all pedestrian signal displays and audible units respond properly to pedestrian pushbutton actuation.	<input checked="" type="checkbox"/>
13	Check that all Traffic Signal heads, visors and backboards are aligned and free of damage.	<input checked="" type="checkbox"/>
14	Observe intersection operation and ensure all signal heads are operational. Re-lamp any signal outages.	<input checked="" type="checkbox"/>
15	Check that the Traffic Signal Controller cabinet is free of damage and that its door lock is working correctly.	<input checked="" type="checkbox"/>
16	Open the Traffic Signal Controller cabinet and observe the controller equipment operation. Check that the controller equipment is operating correctly and that all indicator lights are working.	<input checked="" type="checkbox"/>
17	Final Check: Turn OFF any street lighting.	<input checked="" type="checkbox"/>

# Quality Control Check Sheet



## Electrical Patrol (Bi-Monthly) E-800

Location: SW Marine Dr. @ 16th Ave

Control #: UBC1.1800

Latitude: 49.252096

Initials: EMA

Patrol: Patrol 3 - UBC

Longitude: -123.24668

Date: 20210520 18:22

WO#: 128197

Patrol Sequence: 090

1	Prestart Check: Turn ON any street lighting.	<input checked="" type="checkbox"/>
2	Check if the junction box covers fit well and are free of damage.	<input checked="" type="checkbox"/>
3	Check if the service panels, kiosks, exposed conduit and related hardware are free of damage and all doors are locked and secure.	<input checked="" type="checkbox"/>
4	Check if overhead conductors and support cables are free of damage.	<input checked="" type="checkbox"/>
5	Drive by all lighting and check that the fixtures are all illuminated and free of damage.	<input checked="" type="checkbox"/>
6	Check that all Post Mounted Flashers are working and are free of damage.	<input checked="" type="checkbox"/>
7	Check all Advance Warning Sign faces and clean them if they are dirty. If the sign is not safely accessible for cleaning, create a new corrective (COS) work order for cleaning and note any special access conditions.	n/a
8	Check the operation and condition of all Advance Warning Signs. Ensure that they are operating in sync with the intersection (if applicable) and are free of damage.	n/a
9	Check that all poles are free of major damage.	<input checked="" type="checkbox"/>
10	Check that all signboards with signlighters are illuminated.	n/a
11	Check that all loops: are properly situated in each lane, are working correctly, and have functional detectors.	<input checked="" type="checkbox"/>
12	Check that all pedestrian signal displays and audible units respond properly to pedestrian pushbutton actuation.	<input checked="" type="checkbox"/>
13	Check that all Traffic Signal heads, visors and backboards are aligned and free of damage.	<input checked="" type="checkbox"/>
14	Observe intersection operation and ensure all signal heads are operational. Re-lamp any signal outages.	<input checked="" type="checkbox"/>
15	Check that the Traffic Signal Controller cabinet is free of damage and that its door lock is working correctly.	<input checked="" type="checkbox"/>
16	Open the Traffic Signal Controller cabinet and observe the controller equipment operation. Check that the controller equipment is operating correctly and that all indicator lights are working.	<input checked="" type="checkbox"/>
17	Final Check: Turn OFF any street lighting.	<input checked="" type="checkbox"/>

## **Corrective Work Order #129553**

**Contract:** MOTSR

**Location:** SW Marine Drive @ 16th Avenue, last pole N/B

**Instructions:** MVA last pole NB hit and down. Large shoulder before pole to work from. Requires 250w 120v fixture, 2a, 8.5m shaft, wire harness, fuse and fuse kit, frangible base, pvc rectangular top section w/ new lid.  
(49.2567702, -123.2528003)

**Status:** Admin Complete

**Source:** University RCMP

**PO:**

**RCMP#:** 21-1239 (University)

**Cust Job:** CMC 210522-C6-01

**Permit#:**

**Problem:** Street Lighting MVA

**Cause:** M.V.A.

**Date Received:** 20210522 04:00

20210522 TLA 320 Call from University RCMP for pole down. Assessed damage, removed debris, moved pole off sidewalk, pulled wires back into JB.

20210604 EMA Truck 8817 Eric, 326 Cody. Arrived onsite. Put out sign & coned off work zone. Installed new type 2A arm, frangible base and type 2 8.5M shaft, pulled new wire harness in pole (fuse taped to fuse holder). Dug up damaged JB and installed new top section. Pulled in new wiring harness from JB to base, made splices in JB, bonded and installed new lid. Require 250w HPS 347V fixture, lamp & atm5 fuse, no parking sign to be attached to pole. Parking could be an issue during daytime.

20210604 NPA Truck 299. Drove to site. Got truck into position and installed new 250w 347v fixture. Tested OK. Repairs complete. Pictures added.

# Quality Control Check Sheet



## Controller Cabinet AM E-110.1

Location: **SW Marine Dr. @ 16th Ave**

Control #: **UBC1.1800**

Latitude: **49.252096**

Initials: **NPA**

Patrol: **Patrol 3 - UBC**

Longitude: **-123.24668**

Date: **20210719 12:22**

WO#: **130078**

Patrol Sequence: **090**

CONTROLLER OPERATION		
1	Check and ensure the document pouch contains: timing plan, site layout and elevation plan, cabinet drawing, loop detector assignments, controller cabinet maintenance logbook.	<input checked="" type="checkbox"/>
2	Check the signal operation to ensure the current timing plan is operating, including vehicle and pedestrian detection. Check that each phase is extending beyond min green with demand.	<input checked="" type="checkbox"/>
3	Check the maintenance logbook and make note of any previously documented deficiencies recorded that are still outstanding under corrective maintenance notes	<input checked="" type="checkbox"/>
4	Check the CMU/MMU is operating correctly by comparing the monitor display with the controller unit sequences during normal operation.	<input checked="" type="checkbox"/>
5	Check the loop detection for each vehicle movement to ensure positive detection both on the detector card as well as the mainframe.	<input checked="" type="checkbox"/>
6	Check the advance warning timing against the timing plan and ensure it is correct.	n/a
7	Activate any pre-emptions to ensure correct operation of each pre-emption sequence.	n/a
8	Note any discrepancies on the Corrective Maintenance Notes section. If a deficiency is resulting in serious performance issues, contact the Superintendent, electrical Services for clarification/direction.	<input checked="" type="checkbox"/>
CABINET EXTERIOR		
9	Remove any build-up of sand, debris or vegetation from around the controller cabinet.	<input checked="" type="checkbox"/>
10	Ensure the cabinet door can be fully opened and that line of sight can be maintained with the signal display at the intersection.	<input checked="" type="checkbox"/>
11	Check the cabinet exterior for corrosion, damage, graffiti, etc. Spot paint minor spots, report major painting required.	<input checked="" type="checkbox"/>
12	Check that the cabinet is mounted securely and that the door and locking mechanism operate easily and correctly.	<input checked="" type="checkbox"/>
13	Lubricate the locks and hinges.	<input checked="" type="checkbox"/>
14	Ensure all gaskets are intact and free of damage.	<input checked="" type="checkbox"/>
CABINET INTERIOR		
15	Vacuum and clean the interior of the cabinet, carefully. Use a lint-free cloth moistened with a non-flammable solvent to clean electrical components. For the cabinet interior, wipe down the surface with a lint-free cloth moistened with a mild detergent/water solution.	<input checked="" type="checkbox"/>
16	Replace all cabinet filters with new MoT specified replacement filters only.	n/a
17	Check the seal between the cabinet and the concrete pedestal ensuring no water is entering the cabinet. Reseal as required.	<input checked="" type="checkbox"/>
18	Ensure the conduits entering the pedestal are properly sealed with Styrofoam or Duxseal.	<input checked="" type="checkbox"/>
19	Check the cabinet fan, heat strip and light are all working properly and that the fan and heat strip, thermostats are set at 25 degrees C for the fan and 7.2 degrees C for the heat strip, repair as required.	<input checked="" type="checkbox"/>
20	Check the field connections for tightness, grouping and proper labeling. Check to ensure the surge suppressors and lightning arrestors are intact and have not been activated.	<input checked="" type="checkbox"/>

<b>21</b>	Ensure the GFI receptacle is operational.	<input checked="" type="checkbox"/>
<b>22</b>	If any loops are not detecting with calls being placed into the mainframe, measure that individual loop to determine if a replacement loop is required.	<input checked="" type="checkbox"/>
<b>23</b>	Ensure all equipment and settings are returned to normal operation and before leaving the site, observe the operation for 2 full cycles to ensure the traffic and pedestrian signal is operating as designed.	<input checked="" type="checkbox"/>
<b>24</b>	Enter a log of this maintenance in the traffic controller logbook.	<input checked="" type="checkbox"/>



# Quality Control Check Sheet



## Electrical Patrol (Bi-Monthly) E-800

Location: SW Marine Dr. @ 16th Ave

Control #: UBC1.1800

Latitude: 49.252096

Initials: NPA

Patrol: Patrol 3 - UBC

Longitude: -123.24668

Date: 20210719 12:54

WO#: 130692

Patrol Sequence: 090

1	Prestart Check: Turn ON any street lighting.	<input checked="" type="checkbox"/>
2	Check if the junction box covers fit well and are free of damage.	<input checked="" type="checkbox"/>
3	Check if the service panels, kiosks, exposed conduit and related hardware are free of damage and all doors are locked and secure.	<input checked="" type="checkbox"/>
4	Check if overhead conductors and support cables are free of damage.	n/a
5	Drive by all lighting and check that the fixtures are all illuminated and free of damage.	<input checked="" type="checkbox"/>
6	Check that all Post Mounted Flashers are working and are free of damage.	<input checked="" type="checkbox"/>
7	Check all Advance Warning Sign faces and clean them if they are dirty. If the sign is not safely accessible for cleaning, create a new corrective (COS) work order for cleaning and note any special access conditions.	n/a
8	Check the operation and condition of all Advance Warning Signs. Ensure that they are operating in sync with the intersection (if applicable) and are free of damage.	n/a
9	Check that all poles are free of major damage.	<input checked="" type="checkbox"/>
10	Check that all signboards with signlighters are illuminated.	n/a
11	Check that all loops: are properly situated in each lane, are working correctly, and have functional detectors.	<input checked="" type="checkbox"/>
12	Check that all pedestrian signal displays and audible units respond properly to pedestrian pushbutton actuation.	<input checked="" type="checkbox"/>
13	Check that all Traffic Signal heads, visors and backboards are aligned and free of damage.	<input checked="" type="checkbox"/>
14	Observe intersection operation and ensure all signal heads are operational. Re-lamp any signal outages.	<input checked="" type="checkbox"/>
15	Check that the Traffic Signal Controller cabinet is free of damage and that its door lock is working correctly.	<input checked="" type="checkbox"/>
16	Open the Traffic Signal Controller cabinet and observe the controller equipment operation. Check that the controller equipment is operating correctly and that all indicator lights are working.	<input checked="" type="checkbox"/>
17	Final Check: Turn OFF any street lighting.	<input checked="" type="checkbox"/>

# Quality Control Check Sheet



## Electrical Patrol (Bi-Monthly) E-800

**Location:** SW Marine Dr. @ 16th Ave

**Control #:** URC1.1800

**Latitude:** 49.252096

**Initials:** NPA

**Patrol:** Patrol 3 - UBC

**Longitude:** -123.24668

**Date:** 20210910 12:11

**WO#:** 132753

**Patrol Sequence:** 090

1	Prestart Check: Turn ON any street lighting.	<input checked="" type="checkbox"/>
2	Check if the junction box covers fit well and are free of damage.	<input checked="" type="checkbox"/>
3	Check if the service panels, kiosks, exposed conduit and related hardware are free of damage and all doors are locked and secure.	<input checked="" type="checkbox"/>
4	Check if overhead conductors and support cables are free of damage.	n/a
5	Drive by all lighting and check that the fixtures are all illuminated and free of damage.	<input checked="" type="checkbox"/>
6	Check that all Post Mounted Flashers are working and are free of damage.	<input checked="" type="checkbox"/>
7	Check all Advance Warning Sign faces and clean them if they are dirty. If the sign is not safely accessible for cleaning, create a new corrective (COS) work order for cleaning and note any special access conditions.	n/a
8	Check the operation and condition of all Advance Warning Signs. Ensure that they are operating in sync with the intersection (if applicable) and are free of damage.	n/a
9	Check that all poles are free of major damage.	<input checked="" type="checkbox"/>
10	Check that all signboards with signlighters are illuminated.	n/a
11	Check that all loops: are properly situated in each lane, are working correctly, and have functional detectors.	<input checked="" type="checkbox"/>
12	Check that all pedestrian signal displays and audible units respond properly to pedestrian pushbutton actuation.	<input checked="" type="checkbox"/>
13	Check that all Traffic Signal heads, visors and backboards are aligned and free of damage.	<input checked="" type="checkbox"/>
14	Observe intersection operation and ensure all signal heads are operational. Re-lamp any signal outages.	<input checked="" type="checkbox"/>
15	Check that the Traffic Signal Controller cabinet is free of damage and that its door lock is working correctly.	<input checked="" type="checkbox"/>
16	Open the Traffic Signal Controller cabinet and observe the controller equipment operation. Check that the controller equipment is operating correctly and that all indicator lights are working.	<input checked="" type="checkbox"/>
17	Final Check: Turn OFF any street lighting.	<input checked="" type="checkbox"/>

### **Corrective Work Order #134000**

**Contract:** MOTW-OTHR  
**Location:** 7094 SW Marine Drive  
**Instructions:** Pole hit and down 7094 SW marine drive  
**Status:** Admin Complete  
**Source:** RTMC  
**PO:**  
**RCMP#:** 21-2577 (UBC)  
**Cust Job:** CMC 210926-C6-01  
**Permit#:**  
**Problem:** Street Lighting MVA  
**Cause:** M.V.A.  
**Date Received:** 20210926 03:45

- 20210926 DFA Truck 270 Call from RTMC. Arrived on site, spoke with police officer. Unable to make equipment safe as RCMP investigations ongoing. Left contact information with police they will call back when aloud on scene. Received call at 0500 to come back and make wires safe, arrived back on site, moved pole off of road. Made wires safe a coned off base.
- 20210929 TLA TKU 320,257 Setup signs, cones and trucks. Stood new type 2 8.5m pole with new wire, LED fixture, frangible base, and fuse assembly. Removed remaining debris and old pole. Tested good. Repairs complete.

# Quality Control Check Sheet



## Electrical Patrol (Bi-Monthly) E-800

**Location:** SW Marine Dr. @ 16th Ave

**Control #:** UBC1.1800

**Latitude:** 49.252096

**Initials:** NUR

**Patrol:** Patrol 3 - UBC

**Longitude:** -123.24668

**Date:** 20211028 10:59

**WO#:** 134923

**Patrol Sequence:** 090

<b>1</b>	Prestart Check: Turn ON any street lighting.	<input checked="" type="checkbox"/>
<b>2</b>	Check if the junction box covers fit well and are free of damage.	<input checked="" type="checkbox"/>
<b>3</b>	Check if the service panels, kiosks, exposed conduit and related hardware are free of damage and all doors are locked and secure.	<input checked="" type="checkbox"/>
<b>4</b>	Check if overhead conductors and support cables are free of damage.	n/a
<b>5</b>	Drive by all lighting and check that the fixtures are all illuminated and free of damage.	<input checked="" type="checkbox"/>
<b>6</b>	Check that all Post Mounted Flashers are working and are free of damage.	<input checked="" type="checkbox"/>
<b>7</b>	Check all Advance Warning Sign faces and clean them if they are dirty. If the sign is not safely accessible for cleaning, create a new corrective (COS) work order for cleaning and note any special access conditions.	n/a
<b>8</b>	Check the operation and condition of all Advance Warning Signs. Ensure that they are operating in sync with the intersection (if applicable) and are free of damage.	n/a
<b>9</b>	Check that all poles are free of major damage.	<input checked="" type="checkbox"/>
<b>10</b>	Check that all signboards with signlighters are illuminated.	n/a
<b>11</b>	Check that all loops: are properly situated in each lane, are working correctly, and have functional detectors.	<input checked="" type="checkbox"/>
<b>12</b>	Check that all pedestrian signal displays and audible units respond properly to pedestrian pushbutton actuation.	<input checked="" type="checkbox"/>
<b>13</b>	Check that all Traffic Signal heads, visors and backboards are aligned and free of damage.	<input checked="" type="checkbox"/>
<b>14</b>	Observe intersection operation and ensure all signal heads are operational. Re-lamp any signal outages.	<input checked="" type="checkbox"/>
<b>15</b>	Check that the Traffic Signal Controller cabinet is free of damage and that its door lock is working correctly.	<input checked="" type="checkbox"/>
<b>16</b>	Open the Traffic Signal Controller cabinet and observe the controller equipment operation. Check that the controller equipment is operating correctly and that all indicator lights are working.	<input checked="" type="checkbox"/>
<b>17</b>	Final Check: Turn OFF any street lighting.	<input checked="" type="checkbox"/>