Appendix 900.1

Construction Check List
<table>
<thead>
<tr>
<th>Item</th>
<th>Stage of Project</th>
<th>Accepted Yes/No</th>
<th>Corrections Yes/No</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELECTRICAL UNDERGROUND REVIEW: PRIOR TO POLE INSTALLATION &amp; WIRING</strong></td>
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<tr>
<td><strong>Concrete Bases:</strong></td>
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<tr>
<td>1. Check for the correct type of bases by reviewing anchor bolt size, spacing, protrusion, and base type imprint (on top of the base)</td>
<td>Beginning</td>
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<td>2. Check for correct anchor bolt orientation.</td>
<td>Beginning</td>
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<td>3. Check concrete bases are installed in their specified locations at the correct elevations</td>
<td>Beginning</td>
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<td>4. Check concrete base backfill is properly compacted</td>
<td>Beginning</td>
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<td>5. Check concrete strength tests supplied by the contractor</td>
<td>Beginning</td>
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<td>6. Check top surfaces of concrete bases are level in all four directions</td>
<td>Beginning</td>
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<td><strong>Conduit:</strong></td>
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<tr>
<td>1. Check RPVC conduits are labeled “CSA 22.2 No. 211.2”</td>
<td>Beginning</td>
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<tr>
<td>2. Check all conduit trenches are a minimum of 600mm deep</td>
<td>Beginning</td>
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<td>3. Check conduits are properly glued together</td>
<td>Beginning</td>
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<tr>
<td>4. Check backfill material is free of large rocks which will damage conduits. If large rocks are encountered advise the contractor to surround conduits with 25mm WGBCA material</td>
<td>Beginning</td>
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<td>5. Check marker tape is installed above conduits/cables in trenches</td>
<td>Beginning</td>
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<tr>
<td>6. Check trenches for proper compaction of backfill</td>
<td>End</td>
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<tr>
<td>7. Check all empty conduits have pull strings</td>
<td>End</td>
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<tr>
<td><strong>Junction Boxes:</strong></td>
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<tr>
<td>1. Check boxes are installed flush with finished grade</td>
<td>End</td>
<td></td>
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<tr>
<td>2. Check security bolts are installed and operate as designed</td>
<td>End</td>
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</tbody>
</table>
### ELECTRICAL REVIEW: POST CONSTRUCTION

#### General:

1. All work is complete and operating.
2. Record drawing mark-up received from the contractor

#### Signal and Lighting Poles:

1. Check poles are installed plumb or in the case of signal poles with arm over 11m the pole may have to be racked back to offset arm sag. Signal arms should always have positive rise of 1 to 2 degrees.
2. Check any scratches in the finished surface are repaired
3. Check washers and nut covers are installed. Check for double nuts on signal poles and arms.
4. Check hand hole covers are installed and secured
5. Check breakaway bases are installed where noted
6. Check pole is proper height and type

#### Luminaires and Photocells:

1. Check luminaires are installed level or plumb.
2. Check luminaires are operational.
3. For Cobra heads – Check for correct wattage and lighting source by checking NEMA wattage label
4. For non-cobra head style luminaires check for correct luminaire type, wattage and light source

#### Service Equipment:

1. Check all service panels and conduits are securely attached
2. Check wiring inside the panel is neat, correctly terminated and conforms to the requirements of the wiring diagram
3. Check equipment is securely attached inside the panel
4. Check ground conductor has no splices
5. Check the ground rod or plate is installed and connected
6. Check for correct breaker and contactor size and fault proper current ratings in electrical kiosks

#### Wiring:

1. Check all conductors inside poles are RW90 stranded.
2. Check all conductors are the proper sizes and correctly color coded as indicated on the plans

3. Check wiring in pole hand hole. Check all lighting circuits are correctly fused (check fused lines and load sides are correctly oriented)

4. Check all bond conductors are green

5. Check conductors are properly tagged in all hand holes and lighting control cabinets

### Restoration:

1. Check all areas where work has been performed have been returned to their original condition or better

2. Check all excess material has been removed from the work site

### Signals:

1. Check all signals are properly aimed and visible from stop bars and 50m back

2. Check all pushbutton call up proper pedestrian display. If audible signals are installed make sure they call proper sound on activation.

3. Check all detectors activate their proper phase

4. Check controller cabinet is securely attached and silicone is installed between the cabinet and concrete base

5. Check conductors are properly tagged in all hand holes

6. Check proper cable and conductors are installed

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Project #

Location____________________________________________________________________________________________________________________

Consultant__________________________________________________ Phone_________________________ e-mail_____________________________

Signed__________________________________ Print Name ________________________________

Date_____________________

Additional Comments:

___________________________________________________________________________________________________________________________

___________________________________________________________________________________________________________________________

___________________________________________________________________________________________________________________________

2. Check all conductors are the proper sizes and correctly color coded as indicated on the plans | End

3. Check wiring in pole hand hole. Check all lighting circuits are correctly fused (check fused lines and load sides are correctly oriented) | End

4. Check all bond conductors are green | End

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3. Check all detectors activate their proper phase | End

4. Check controller cabinet is securely attached and silicone is installed between the cabinet and concrete base | End

5. Check conductors are properly tagged in all hand holes | End

6. Check proper cable and conductors are installed | End