DEVELOPMENT STANDARDS
City of Ellensburg

ILLUMINATION DETAILS
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SURFACE RESTORATION PER DETAIL SC-30

24" MINIMUM COVER

1.0'

4"

SUITABLE NATIVE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY

WARNING TAPE

1-1/2" - 2" GRAY SCHEDULE 40 PVC ELECTRICAL CONDUIT

SMOOTH SAND BEDDING

Nominal Pipe Size Plus 12"

REVISED 08-12-15
4' WIDE CONCRETE STRIP OR AS NOTED ON PLANS

5/8" MINUS TOP COURSE

4.5' B.C. OR AS NOTED ON PLANS

1" SAND

PAVER STONES

2" PVC IRRIGATION PIPE WITH SAND BEDDING

SUITABLE NATIVE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY

WARNING TAPE

2" GRAY SCH. 40 PVC ELECTRICAL CONDUIT

CONCRETE SAND BEDDING
GENERAL NOTES:

1) THE MINIMUM TRENCH DEPTH REQUIRED FOR 15KV PRIMARY ELECTRICAL CONDUIT IS 36", MAXIMUM OF 42". THE MINIMUM TRENCH DEPTH REQUIRED FOR GAS MAINS IS 30", MAXIMUM OF 36". TRENCH DEPTH MIN / MAX CAN CHANGE WITH PRIOR APPROVAL FROM ENERGY SERVICES.

2) BACKFILL SHOULD NOT BE USED IF IT CONTAINS LARGE ROCK, PAVING MATERIALS, CINDERS, LARGE OR SHARPLY ANGULAR SUBSTANCE OR CORROSIVE MATERIALS WHICH CAN DAMAGE CONDUITS, CABLES, GAS PIPES OR OTHER SUBSTRUCTURES OR PREVENT ADEQUATE COMPACTION OF FILL OR CONTRIBUTE TO CORROSION OF CONDUITS, CABLES OR OTHER SUBSTRUCTURES.

3) ELECTRICAL CONDUIT AND GAS MAIN MAY BE IN JOINT TRENCH WITH WATER MAIN PROVIDED A MINIMUM SEPARATION OF 36" IS MAINTAINED. THE UTILITY MAY REQUIRE STAKING PRIOR TO BACKFILL TO MAINTAIN REQUIRED SEPARATION. NO UTILITY WILL BE JOINT TRENCH WITH SEWER OR PLACED OVER THE TOP OF THE GAS MAIN OR SERVICE LINE.

4) SMOOTH SAND BEDDING IS REQUIRED FOR GAS MAINS AND PRIMARY ELECTRICAL CONDUITS, 6-INCHES BELOW AND 6-INCHES ABOVE. MAINTENANCE SAND MAY NOT BE USED AS SAND BEDDING.
GENERAL NOTES:

1) THE MINIMUM DEPTH OF TRENCH REQUIRED FOR NATURAL GAS SERVICE LINE IS 18" ON PROPERTY WITH A MINIMUM DEPTH OF 24" IN THE RIGHT OF WAY. THE MINIMUM DEPTH OF TRENCH FOR SECONDARY ELECTRICAL SERVICE CONDUIT IS 30", MAXIMUM OF 42". TRENCH DEPTH MIN / MAX CAN CHANGE WITH PRIOR APPROVAL FROM ENERGY SERVICES.

2) TRENCH SHOULD BE AS STRAIGHT AS POSSIBLE WITH NO MORE THAN (3) 90° BENDS. IN AREAS WHERE TRENCH CHANGES DIRECTION, CORNERS SHOULD BE ROUNDED TO ALLOW FOR SWEEPS. THE FLOOR OF THE TRENCH, SHOULD BE AS LEVEL AND FLAT AS PRACTICALLY POSSIBLE. THE SWEEP BELOW THE METER SHOULD BE DIRECTED TOWARD THE SOURCE OF THE SERVICE (TYPICALLY THE TRANSFORMER OR HANDBOX AT THE PROPERTY CORNER), NOT PERPENDICULAR TO THE BUILDING.

3) BACKFILL SHOULD NOT BE USED IF IT CONTAINS LARGE ROCK, PAVING MATERIALS, CINDERS, LARGE OR SHARPLY ANGULAR SUBSTANCE OR CORROSIVE MATERIALS WHICH CAN DAMAGE THE PIPELINE, CONDUITS, CABLES OR OTHER SUBSTRUCTURES AND / OR PREVENTS ADEQUATE COMPACTION OF FILL.

4) SERVICE LINES MAY BE IN A JOINT TRENCH PROVIDED A MINIMUM SEPARATION OF 12" IS MAINTAINED, WHILE 18" IS PREFERRED. UTILITY MAY REQUIRE STAKING PRIOR TO BACKFILL TO MAINTAIN REQUIRED SEPARATION AND ADEQUATE COVERAGE. NO UTILITY WILL BE PLACED OVER THE TOP OF THE GAS SERVICE LINE.

5) SMOOTH SAND BEDDING IS REQUIRED FOR GAS SERVICE LINES AND SECONDARY ELECTRICAL CONDUITS. MAINTENANCE SAND MAY NOT BE USED AS SAND BEDDING.

6) BACKFILLING MUST BE COMPLETED AT THE TIME THE GAS SERVICE LINE IS INSTALLED AND MADE LIVE. WIRE WILL NOT BE PULLED INTO CONDUITS UNTIL BACKFILL IS COMPLETED.
### MATERIAL LIST

<table>
<thead>
<tr>
<th>ELLENSBURG STOCK CODE</th>
<th>MATERIAL LIST</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 312030</td>
<td>POLE, STREET LIGHT 35' VALMONT, 6'11&quot; ARM, TYP.</td>
<td>1</td>
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<tr>
<td>2 312521</td>
<td>LUMINAIRE LED, (165W LED EQUIV.), CCT = 3000K</td>
<td>1</td>
</tr>
<tr>
<td>3 312054</td>
<td>PHOTO CELL, LONG-LIFE FOR LED</td>
<td>1</td>
</tr>
<tr>
<td>4 305784</td>
<td>STREET LIGHT BREAKAWAY FUSE WITH INSULATING BOOT - 1 COND</td>
<td>2 (Note B)</td>
</tr>
<tr>
<td>5 310190</td>
<td>BASE, CONCRETE, 4ft - (4) BOLT</td>
<td>1</td>
</tr>
</tbody>
</table>

### Notes:

A. Contact Energy Services to verify lighting requirements in current stock catalog, arm length, photocell, voltage, location, wire size & length

B. For 120 V systems, install (1) fuse.

C. See Standard Detail No EL-22B for base details.

D. Contact the Energy Services Department at 509-962-7124 for inspection of conduit and base prior to backfill and concrete pour, if applicable.

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**Street Light Fusing Detail**

- **Line Load**
- **Street Light Wire #12/3 UF** in 1-5/8" SCH 40 Gray PVC
  - Minimum 18" radius on all elbows
  - Maximum 15 feet from junction box

**SEE TRENCHING SPECIFICATION PLAN NO. EL-10**

**SEE DETAIL "VSLH"**

**19x24" MIN. SECONDARY JUNCTION BOX TYP.**
<table>
<thead>
<tr>
<th>STOCK CODE</th>
<th>MATERIAL LIST</th>
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<tbody>
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<td>312030</td>
<td>POLE, STREET LIGHT 35' VALMONT, 6'11&quot; ARM, TYP.</td>
<td>1</td>
</tr>
<tr>
<td>312520</td>
<td>LUMINAIRE LED, (100W LED EQUIV.), CCT = 3000K</td>
<td>1</td>
</tr>
<tr>
<td>312054</td>
<td>PHOTO CELL, LONG-LIFE FOR LED</td>
<td>1</td>
</tr>
<tr>
<td>305784</td>
<td>STREET LIGHT BREAKAWAY FUSE WITH INSULATING BOOT - 1 COND</td>
<td>2 (Note B)</td>
</tr>
<tr>
<td>310190</td>
<td>BASE, CONCRETE, 4ft - (4) BOLT</td>
<td>1</td>
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</tbody>
</table>

### Notes:

A. Contact Energy Services to verify lighting requirements in current stock catalog, arm length, photocell, voltage, location, wire size & length.
B. For 120 V systems, install (1) fuse.
C. See Standard Detail No EL-22B for base details.
D. Contact the Energy Services Department at 509-962-7124 for inspection of conduit and base prior to backfill and concrete pour, if applicable.

**Street Light Fusing Detail**

- See trenching specification plan No. EL-19
- 19x24" Min. Secondary Junction Box TYP.
- See detail "VSLH"

**Street Light Wire #12/3 UF**
- In 1-3/4" SCH 40 Gray PVC
- Minimum 18" radius on all elbows
- Maximum 15 feet from junction box

**Top View**

City of Ellensburg
STANDARD PLANS & DETAILS

CITY OF ELLENSBURG
STANDARD PLANS & DETAILS

35' VALMONT LED STREET LIGHT
(100W LED)

DRAWN BY: E.S. DEPT.  DATE: 01-22-04  UPDATED BY: TH  SCALE: NONE

REVISED 07-08-16

PLAN NO. EL-21
CONTRACTOR SHALL VERIFY THAT BOLT PATTERN AND SPACING MATCH WITH ILLUMINATION STANDARD.

NOTES:
1. CENTER ANCHOR BOLTS & CONDUIT IN THE 24" DIAMETER CONCRETE FOOTING.
2. CONTRACTOR TO CONFIRM NO. OF, SIZE, AND ORIENTATION OF CONDUITS. CONTRACTOR TO CONFIRM BOLT PATTERN & DIAMETER.
3. SAND BEDDING PER PLAN NO. EL-10
4. FOUR BOLTS—1" X 24" (MIN) GALVANIZED ANCHOR BOLTS EXTENDED 3" ABOVE CONCRETE BASE. INCLUDE 2 WASHERS & 2 NUTS FOR EACH BOLT.
5. ALTERNATE—PRECAST FOUNDATION FROM Utility VAULT—SEE SPECIFICATION—CITY LIGHT STOCK NO. 10190

*CONTRACTOR SHALL VERIFY THAT BOLT PATTERN AND SPACING MATCH WITH ILLUMINATION STANDARD.
Notes:
1. This concrete base can adapt to 1\(\frac{1}{2}\)" to 2\(\frac{1}{2}\)" Sch 40 PVC - conduit.
2. See Street Light Trench Standard Detail No. EL-10
3. All sweeps, min 18" radius with straight extension into base.
4. Four bolts -1x24" (min) galvanized anchor bolts extended 3" above concrete base. Include (2) washers & (2) nuts for each bolt.
5. Light base shall be City Stock No. 310190, Pre-Cast concrete 14" x 14" x 48" 4-bolt street light base or approved equivalent.
6. Existing poles may not match up to this light base; Verify bolt pattern.

GENERAL NOTES:
CONTRACTOR SHALL VERIFY THAT BOLT PATTERN AND SPACING MATCH WITH ILLUMINATION STANDARDS.
### Notes:

A. Contact Energy Services to verify lighting requirements in current stock catalog, photocell, voltage, location, wire size & length
B. For 120 V systems, install (1) fuse.
C. See Standard Detail No. EL. 24 for Street Light Base.
D. Contact the Energy Services Department at 509-962-7124 for inspection of conduit and base prior to backfill and concrete pour, if applicable.
E. Photo-Cell will come standard with new post top contempo LED fixtures.

### MATERIAL LIST

<table>
<thead>
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<th>QUANTITY</th>
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<tr>
<td>312020</td>
<td>POLE, STREET LIGHT 17'</td>
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<tr>
<td>312079</td>
<td>POST TOP CONTEMPO LED LUMINAIRE (CCT = 3000K)</td>
<td>1</td>
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<tr>
<td>305784</td>
<td>STREET LIGHT BREAKAWAY FUSE WITH INSULATING BOOT - 1 COND</td>
<td>2 (Note B)</td>
</tr>
<tr>
<td>310192</td>
<td>BASE, CONCRETE, 4ft - (3) BOLT</td>
<td>1</td>
</tr>
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</table>

### STREET LIGHT FUSING DETAIL

- **LINE LOAD**
- **SEE TRENCHING SPECIFICATION PLAN NO. EL-10**
- **19"x24" MIN. SECONDARY JUNCTION BOX TYP. SEE DETAIL "VSLH"**

### STREET LIGHT WIRE

- IN 1-3/8" SCH 40 GRAY PVC
- MINIMUM 18" RADIUS ON ALL ELBOWS
- MAXIMUM 15 FEET FROM JUNCTION BOX

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**City of Ellensburg**

**CONTEMPO STREET LIGHT (44W LED)**

**DRAWN BY:** E.S. DEPT.  
**DATE:** 10-24-01  
**UPDATED BY:** TH  
**SCALE:** NONE

**PLAN NO.** EL-23
Notes:
1. This concrete base can adapt to 1\(\frac{1}{2}\)" to 2\(\frac{1}{2}\)" Sch 40 PVC - conduit.
2. See trenching Standard Detail No. EL-10
3. All sweeps, min 18" radius with straight extension into base.
4. Three bolts -\(\frac{3}{4}\)"x24" (min) galvanized anchor bolts extended 4" above concrete base. Include (2) washers & (2) nuts for each bolt.
5. Light base shall be City Stock No. 310192, Precast concrete 17" diameter with 10" diameter bolt circle or approved equivalent.

GENERAL NOTES:
CONTRACTOR SHALL VERIFY THAT BOLT PATTERN AND SPACING MATCH WITH ILLUMINATION STANDARDS.
<table>
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<th>MATERIAL LIST</th>
<th>QUANTITY</th>
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<tr>
<td>312027</td>
<td>HISTORIC STREET LIGHT - SINGLE ACORN</td>
<td>1</td>
</tr>
<tr>
<td>305784</td>
<td>STREET LIGHT BREAKAWAY FUSE WITH INSULATING BOOT - 1 COND</td>
<td>2 (Note B)</td>
</tr>
<tr>
<td>312053</td>
<td>FLUSH-MOUNTED PHOTOCELL</td>
<td>1</td>
</tr>
<tr>
<td>312512</td>
<td>SELF-BALLASTED 54W LED LAMP, MOGUL BASE (E39) (CCT =3000K)</td>
<td>1</td>
</tr>
</tbody>
</table>

Notes:

A. Contact Energy Services to verify lighting requirements in current stock catalog, photocell, voltage, location, wire size & length.
B. For 120V systems, install (1) fuse.
C. Refer to Standard Detail No. EL-26 for street light base.
D. Photocell requires drilling an 11/16" hole and should be located on the north side of the post.
E. Powder Coat KNOHG01 (Knobel Green) or approved equal (submit paint sample for approval)
F. Contact the Energy Services Department at 509-962-7124 for inspection of conduit and base prior to backfill and concrete pour, if applicable.
G. For LED retrofit applications, internal HPS fixture wiring requires re-wiring to bypass HPS ballast.
NOTES:
1. CENTER ANCHOR BOLTS & CONDUIT IN THE 20–1/8’’ DIAMETER CONCRETE FOOTING.
2. CONTRACTOR TO CONFIRM NO. OF, SIZE, AND ORIENTATION OF CONDUITS. CONTRACTOR TO CONFIRM BOLT PATTERN & DIAMETER.
3. SAND BEDDING PER PLAN NO. EL–10 4. FOUR BOLTS–3/4” x 18” (MIN) GALVANIZED ANCHOR BOLTS EXTENDED 2–1/2” ABOVE CONCRETE BASE. INCLUDE 2 WASHERS & 2 NUTS FOR EACH BOLT.

*CONTRACTOR SHALL VERIFY THAT BOLT PATTERN AND SPACING MATCH WITH ILLUMINATION STANDARD.
### Material List

<table>
<thead>
<tr>
<th>Stock Code</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>312025</td>
<td>Regency Historic Street Light - 3 Globe Fixture</td>
<td>1</td>
</tr>
<tr>
<td>312031</td>
<td>Regency Historic Street Light - Globes</td>
<td>3</td>
</tr>
<tr>
<td>305784</td>
<td>Street Light Breakaway Fuse - 1 Cond with Insulating Boot - 1 Cond</td>
<td>2 (Note B)</td>
</tr>
<tr>
<td>314600</td>
<td>Watertight Straight Blade Plug/Connector</td>
<td>1</td>
</tr>
<tr>
<td>312510</td>
<td>Self-Ballasted 36W, LED Lamp, Mogul Base (E39) (CCT = 3000K)</td>
<td>3</td>
</tr>
<tr>
<td>302161</td>
<td>12/3 UF-B Wire with GRD</td>
<td>40</td>
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</table>

### Notes:

A. Contact Energy Services to verify lighting requirements in current stock catalog, photocell, voltage, location, wire size & length.
B. For 120 V systems, install (1) fuse.
C. Refer to Standard Detail No. EL-28 for street light base.
D. Poles and arm assembly come primer black, finish coat prior to installation is Essex Green PG 56-2024 or Tiger Drylac RAL 6012 or approved equal (submit paint sample for approval).
E. Fitter assemblies, finish coat prior to installation is semi-gloss black.
F. Contact the Energy Services Department at 509-962-7124 for inspection of conduit and base prior to backfill and concrete pour, if applicable.
G. For LED retrofit applications, internal HPS fixture wiring requires re-wiring to bypass HPS ballast.

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**Street Light Fusing Detail**

- 15' 6"
- SEE TRENCHING SPECIFICATION PLAN NO. EL-10
- 19x24" MIN. SECONDARY JUNCTION BOX TYP.
- SEE DETAIL "VSLH"

**Street Light Wire**

- In 2" SCH 40 Gray PVC
- Minimum 18" radius on all elbows
- Maximum 15 feet from junction box

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**City of Ellensburg**

**Standard Plans & Details**

**Historic Street Light (3 Globe) (36W LED)**

**Plan No.**

**Drawn By:** E.S. Dept.  **Date:** 11-22-02  **Updated By:** TH  **Scale:** NONE

**City of Ellensburg Washington**
CONTRACTOR SHALL VERIFY THAT BOLT PATTERN AND SPACING MATCH WITH ILLUMINATION STANDARD.

1/2" CHAMFER ON THE EDGE AND LIGHT BROOM FINISH ON TOP, TOP OF THE CAST BASE LEVEL.

2" SCHEDULE 40 GRAY PVC CONDUIT

TRANSITION COUPLING FROM STEEL CONDUIT TO 2" SCHEDULE 40 PVC

2" GRAY SCHEDULE 40 PVC CONDUIT THRU LIGHT BASE

90° SWEEPING BEND (18" RADIUS)

ELEVATION VIEW

NOTES:
1. CENTER ANCHOR BOLTS & CONDUIT IN THE 24" DIA. CONCRETE FOOTING

2. CONTRACTOR TO CONFIRM NUMBER OF, SIZE & ORIENTATION. CONTRACTOR TO CONFIRM BOLT PATTERN.

3. SANDBEDDING PER PLAN NO. EL-10.

4. FOUR GALVANIZED ANCHOR BOLTS PER MANUFACTURERS REQUIREMENTS EXTENDED 5' ABOVE CONCRETE BASE, INCLUDE 2 WASHERS & 2 NUTS FOR EACH BOLT.

DIAETER BOLT CIRCLE PER POLE MANUFACTURES REQUIREMENTS

TRANSITION CPLG

Curb & Gutter

TOP VIEW

*CONTRACTOR SHALL VERIFY THAT BOLT PATTERN AND SPACING MATCH WITH ILLUMINATION STANDARD.
<table>
<thead>
<tr>
<th>STOCK CODE</th>
<th>MATERIAL LIST</th>
<th>QUANTITY</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>BRACKET, STREET LIGHT 10'</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>LUMINAIRE LED, (100W LED EQUIV.), CCT = 3000K</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>PHOTO CELL, LONG-LIFE FOR LED</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>STREET LIGHT BREAKAWAY FUSE WITH INSULATING BOOT - 1 COND</td>
<td>2 (Note B)</td>
</tr>
<tr>
<td>5</td>
<td>CONDUIT, PVC SCH 80, 2&quot; - 10'</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>CONDUIT, PVC SCH 40, 2&quot; - 10'</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>BRACKET, STANDOFF-DIAMOND BACK</td>
<td>3</td>
</tr>
</tbody>
</table>

Notes:

A. Contact Energy Services to verify lighting requirements in current stock catalog, arm length, photocell, voltage, location, wire size & length
B. For 120 V systems, install (1) fuse.
NOTE 1: PENCELL CAT. NO PE-20 HPX OR APPROVED EQUIVALENT.
MUST INCLUDE PENTA HEAD BOLT - 5000 lb. RATING MINIMUM

1b: FOR TRAFFIC BEARING BOXES, PENCELL CAT NO. PE-20UX FOR
10,000 lb. RATING MINIMUM.
NOTE 1: PENCELL CAT. NO PE-20 HPX OR APPROVED EQUIVALENT. MUST INCLUDE PENTA HEAD BOLT - 5000 lb. RATING MINIMUM

1b: FOR TRAFFIC BEARING BOXES, PENCELL CAT NO. PE-20UX FOR 10,000 lb. RATING MINIMUM.
Notes:

1. Contact engineering for source location. (Hand hole or Transformer), typically within 15-feet of street lights.

2. Call 962-7124 for city light Line crew inspection prior to backfill and for any digging within two feet of transformer.

TRANSFORMER CONNECTION TYPICAL

Note 2. HAND DIG within 2 ft of transformer.

STREET LIGHT WIRE IN 1-1/2" or 2" SCH 40 GRAY PVC

1/2"-2" 45° SWEEP (TYP. STREET LIGHT CONDUIT)
ALL CONDUIT - SCH 40 GRAY PVC (18" MIN. RADIUS SWEEPS)

See Note 2.
SEE TRENCHING SPECIFICATION PLAN NO. EL-10
35' VALMONT STYLE STREET LIGHTS (165 WATT LED)

ARTERIAL STREET

240’ Max.

COLLECTOR STREET

240’ Max.

LOCAL ACCESS STREET

REVISED 07-30-14
35' VALMONT STYLE STREET LIGHTS (100 WATT LED)

COLLECTOR STREET

ARTERIAL STREET

LOCAL ACCESS STREET

240' MAX. (TYP.)

REVISED 07-30-14

CITY OF ELLENSBURG
STANDARD PLANS & DETAILS

DRAWN BY: DKM
DATE: 01-20-04

COLLECTOR STREET LIGHT VALMONT STYLE LIGHT SPACING

PLAN NO. EL-41
CONTEMPO STYLE STREET LIGHTS (44 WATT LED) OR ACORN STYLE STREET LIGHTS (54 WATT LED)

ARTERIAL/COLLECTOR STREET

150’ MAX.
CONTEMPO STYLE STREET LIGHTS (44 WATT LED) OR ACORN STYLE STREET LIGHTS (54 WATT LED)

LOCAL ACCESS STREET

240’ MAX.

240’ MAX.