

E.6.1 - STREET LIGHTING

STREET LIGHTING

General

The following general requirements shall apply to street lights installed in new underground residential subdivisions/developments (subdivisions) located within the service area of Lehi City Power (within Lehi City):

Lehi City Power will provide electric power for street lights at no cost, except as otherwise provided below in the Street Light Layouts section.

Lehi City Power standard (Town and Country) street lights (poles, fixtures and wiring) shall be used except as provided in item 5, and 6 below. The standard street light pole (direct embedded) is a W.J. Whatley, Inc. Catalog No. E3020-20-60-N1,3 and the standard fixture (pole top mounted) is a Cooper Lighting Catalog No. LXF10SR2334 (100 watt high pressure sodium lamp) or approved General Electric equal.

Lehi City Power standard street lights will be installed in accordance with Lehi City Power's Line Extension Policy.

Lehi City Power standard street lighting will be installed, owned and maintained by the Lehi City Power. Conduit systems for street lighting wiring shall be installed by contractors/developers in accordance with Drawing E.6.4.

Development specific decorative (non Lehi City Power standard) street lighting (poles, fixtures and wiring) may be installed in subdivisions with homeowners associations.

Decorative lighting (service disconnect, poles, luminaries, lamps, conduit and wiring) installed in underground subdivisions with homeowners associations shall be installed by contractors/developers, and owned by the homeowners associations. Power for the street lights will be provided by Lehi City Power in accordance with item 1 above.

Street Light Layouts

The following layout requirements shall apply to Lehi City Power standard and decorative street lighting installations:

Layouts for Lehi City Power standard street light installations will be prepared by Lehi City Power.

Layouts for decorative street light installations shall be prepared by contractors/developers, utilizing the general requirements included subsequently in this section. Contractors/developers shall provide drawings of proposed layouts for decorative street lighting to Lehi City Power for review and approval. Catalog information on the poles, luminaries and lamps proposed for use shall be provided by contractors/developers with the light layouts.

In general, street lights shall be placed at three and four way intersections, and at 90 degree turns (elbows). See Drawing E.6.3 for typical street lighting layout.

Street lights shall also be installed between intersections at staggered spacings of approximately 400 feet. Decorative street lights may be installed at lesser spacings, but homeowners associations will be billed for the electric power usage of the additional lights. See Drawing E.6.3 for typical street lighting layout.

Decorative street lights may be installed (400 foot non-staggered spacing) on medians (islands) in streets with islands at least 10 feet in width. Decorative street lights may be installed at lesser spacings, but homeowners associations will be billed for the electric power usage of the additional lights.

Luminaries for decorative street lights shall be Type III, include a photo cell receptacle and shall be suitable for use with a 100 watt high pressure sodium lamp. Use of luminaries with higher wattage lamps or other light sources (metal halide or mercury vapor) must be approved by Lehi City Power. Additional charges for excess electric power usage may be assessed to homeowners associations. House side shields shall be provided if required. Street light poles shall provide a minimum mounting height for luminaries of 16 feet.

Point(s) of Delivery for Decorative Lighting

The point(s) of delivery for decorative street lights shall be at a location(s) approved by Lehi City Power. Contractors/developers shall provide drawings of proposed locations for points of delivery for decorative street lighting to the Lehi City Power for review and approval. These points of delivery shall typically be proximate to Lehi City Power owned pad mounted transformers or secondary junction boxes.



LEHI CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL STREET LIGHTING

ELECTRIC 6.1
STREET LIGHTING
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E.6.2 - STREET LIGHTING

The layout of decorative lights shall be so as to minimize the number of delivery points required.

All points of delivery for decorative street lights shall include a disconnect with over current protective device(s) [fuse(s) or breaker(s)]. The rating of the over current protection shall be compatible with the current rating of the wiring connected to the device. The disconnect shall be service entrance rated, tamper proof, equipped with provisions for locking, installed in a NEMA 3R enclosure and mounted on a building wall, or substantial wood or steel post. The disconnect and appurtenant facilities shall be installed in accordance with the applicable articles of the National Electric Code (NEC).

Facilities installed at decorative street light points of delivery shall be inspected by the Lehi City electrical inspector prior to connection to the Lehi City Power electrical system.

Wiring between Lehi City Power pad mounting transformers or secondary junction boxes and disconnects for decorative lighting will be installed, owned and maintained by Lehi City Power and installed in conduits (source side conduit systems) provided (furnished and installed) by contractors/developers (reference paragraph D of this section). Lehi City Power will own and maintain the source side conduits after the street light installation is completed.

Conduits for Lehi City Power Standard and Decorative Street Lights

Lehi City Power wiring for Lehi City Power standard and decorative street lights shall be installed in direct buried conduit.

Lehi City Power Standard Street Lights:

Contractors/developers shall provide (purchase and install) all street lighting conduit systems (conduit, fitting, elbows, conduit cement, etc.) for Lehi City Power standard street lights. Lehi City Power will own and maintain the conduit systems after the street light installation is completed. The conduit systems shall extend from Lehi City Power pad mounted transformers or secondary junction boxes to street light locations. The contractor/developer shall be responsible for proper routing and placement (burial depth, excavation, bedding, backfill and compaction) of conduits, and for the location of conduit end points (stubs ups) at pad mounted transformers and/or secondary junction boxes, and street light locations.

Decorative Street Lights:

Contractors/developers shall provide (purchase and install) source side conduit systems between decorative street light delivery points and Lehi City Power pad mounted transformers and/or secondary junction boxes. Lehi City Power will own and maintain the source side conduit systems after the street light installation is completed. The contractor/developer shall be responsible for proper routing and placement of conduits, and for the location of conduit end points (stubs ups) at pad mounted transformer and/or secondary junction box locations. The contractors/developers shall also be responsible for terminating the conduit at the line side of the disconnecting means at delivery points. Lehi City Power will install the wiring from transformer or secondary junction box to the delivery point and terminate the wiring at the source of the disconnect.

Conduit types and capping shall be in accordance with the conduits paragraphs of this document.

STREET LIGHTING CONDUIT REQUIREMENTS

The contractor/developer shall be responsible for the installation of street lighting conduit systems (3 inch diameter) extending from transformer or secondary junction boxes to lighting fixture locations. Where possible, lighting fixtures shall be located at street intersections with maximum spacing of approximately 400' (see drawing E.6.3 for typical street lighting layout). The contractor is responsible for proper location and centering of conduit end points for lighting fixture installations. The City, under the terms of its Line Extension Policy, shall furnish and install lighting fixtures and light fixture service cables. Commercial areas shall be required to place conduit to light city streets bordering their development. Lights shall be paid for by the Developer and installed by the Power Department. Light placement shall be at each intersections and one for every 150 feet as approved by the Power Department. Light type and size shall be determined by the Power Department according to road size and area.



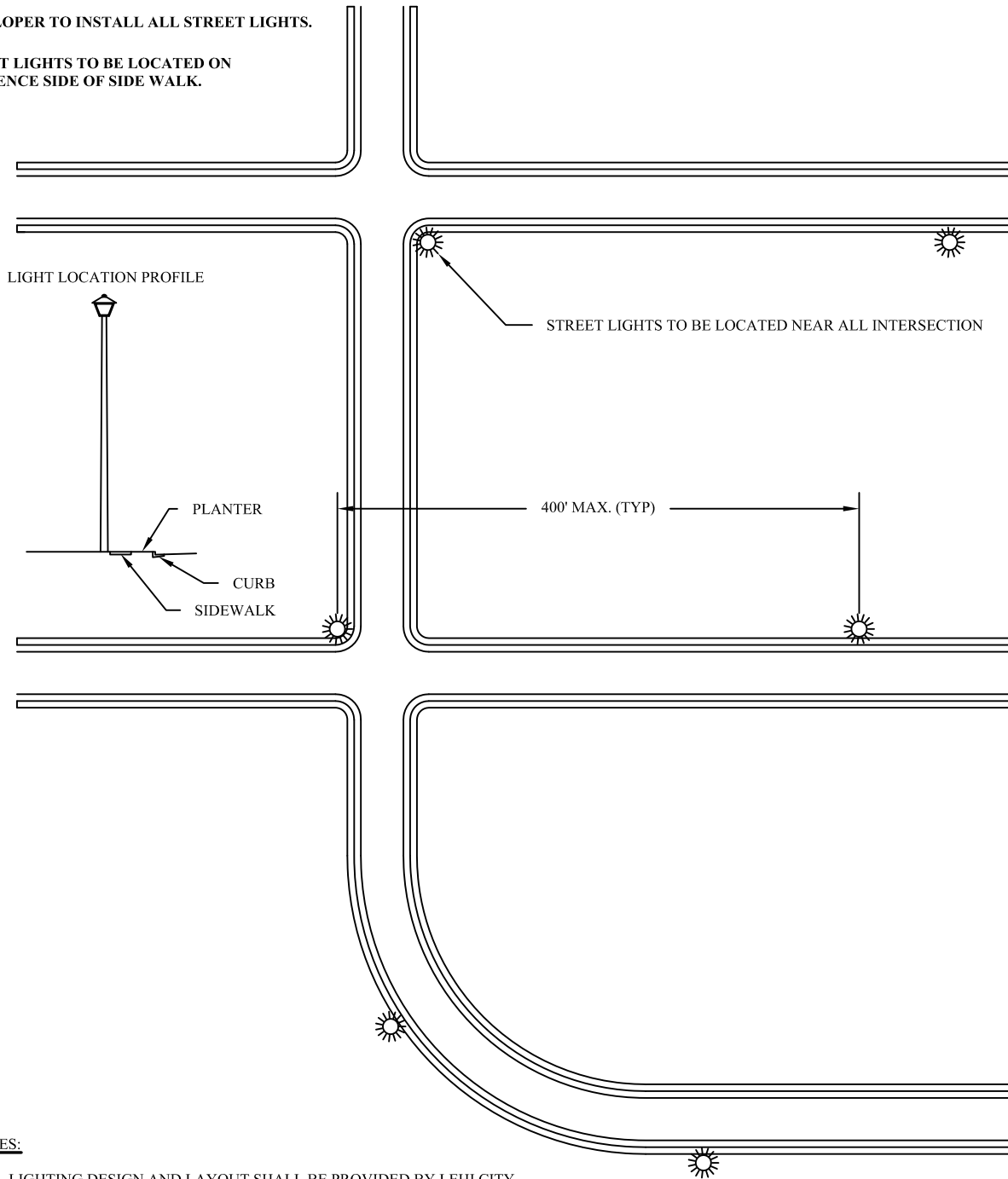
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E.6.3 - STREET LIGHTING

DEVELOPER TO INSTALL ALL STREET LIGHTS.

STREET LIGHTS TO BE LOCATED ON RESIDENCE SIDE OF SIDE WALK.



NOTES:

1. LIGHTING DESIGN AND LAYOUT SHALL BE PROVIDED BY LEHI CITY.
2. STREET LIGHT SHALL BE LOCATED WITH 400' MAXIMUM SEPARATION, AND NEAR ALL INTERSECTIONS.
3. DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE 2" CONDUITS FROM THE TRANSFORMERS OR SECONDARY JUNCTION BOXES TO LIGHTING FIXTURES.
4. DEVELOPER TO PROVIDE WIRE FROM SECONDARY JUNCTION BOX TO LIGHT POLE.
5. INSPECTION OF STREET LIGHTING SHALL BE SCHEDULED AT THE SAME TIME AS THE CONDUIT AND COMPACTION INSPECTION.



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E.6.4 - STREET LIGHTING

REQUIRED SECONDARY JUNCTION DOMES TYPES:

1. PEN-CELL (#AG-14HDXNL)
2. NORDIC (#PRMC-150)

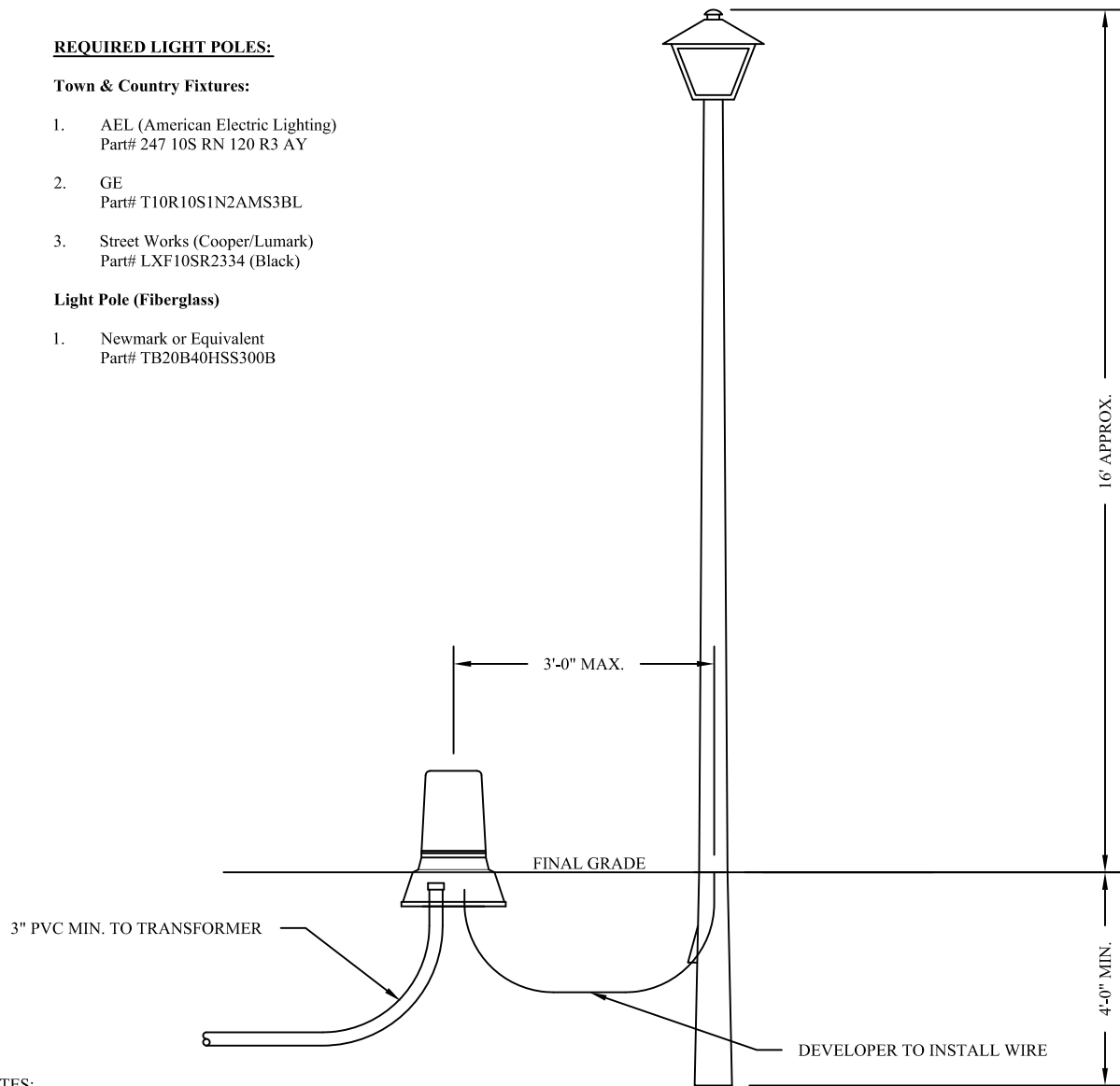
REQUIRED LIGHT POLES:

Town & Country Fixtures:

1. AEL (American Electric Lighting)
Part# 247 10S RN 120 R3 AY
2. GE
Part# T10R10S1N2AMS3BL
3. Street Works (Cooper/Lumark)
Part# LXF10SR2334 (Black)

Light Pole (Fiberglass)

1. Newmark or Equivalent
Part# TB20B40HSS300B



NOTES:

1. DEVELOPERS TO PROVIDE 3" CONDUIT FROM TRANSFORMER TO SECONDARY JUNCTION BOX.
2. DEVELOPER TO PROVIDE LOCKABLE SECONDARY JUNCTION BOX.
3. DEVELOPER SHALL PROVIDE WIRE FROM SECONDARY JUNCTION BOX TO LIGHT POLE.
4. DEVELOPER TO PROVIDE WIRE FROM SECONDARY JUNCTION BOX TO LIGHT POLE.



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