

DETAIL NOTES

- 1 POLE SHALL BE ROUND, STRAIGHT, GALVANIZED STEEL WITH A 12.75-INCH (MAX.) OUTER DIAMETER. POLE SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M111. POLE SHALL EITHER MATCH SURROUNDING STREET LIGHT POLE COLORS (IF APPLICABLE) OR BE DARK BROWN. OTHER COLORS MAY BE APPROVED BY LPC. PAINT SHALL BE POWDER COATED OVER ZINC PAINT. POLE SHALL BE DESIGNED TO WITHSTAND A MINIMUM WIND VELOCITY OF 110 MPH PER TIA-222 REVISION G AND IBS 2012 WITH ASCE/SEI 7-10. A MINIMUM OF 15% OF THE POLE STRUCTURAL CAPACITY SHALL BE RESERVED FOR FUTURE CITY OF LONGMONT INTERNET-OF-THINGS INSTALLATIONS. WEATHERPROOF GROMMETS SHALL BE INTEGRATED INTO THE POLE DESIGN TO ALLOW FOR CABLE TO EXIT. A HANDHOLE SHALL BE PROVIDED TO MAINTAIN CURRENT AND FUTURE LPC/CITY OF LONGMONT FACILITIES. AN OPTIONAL HANDHOLE MAY BE PROVIDED ABOVE THE BASE. POLE SHALL BE ARCHITECTURALLY COMPATIBLE WITH THE EQUIPMENT CABINET.
- 2 LUMINAIRE MAST ARMS SHALL BE GALVANIZED STEEL AND PAINTED TO MATCH THE POLE. THE LUMINAIRE MAST ARM LENGTH SHALL MATCH THAT OF THE EXISTING POLE UNLESS OTHERWISE DIRECTED BY LPC. ALL LUMINAIRES SHALL BE MOUNTED AT THE SAME HEIGHT AS SURROUNDING STREETLIGHTS UNLESS OTHERWISE DIRECTED BY LPC. ALL LUMINAIRES SHALL BE PROVIDED BY LPC.
- 3 CANTENNA SHALL BE 16-INCH MAXIMUM OUTER DIAMETER WITH SHROUD. THE HEIGHT OF THE CANTENNA - INCLUDING ALL ASSOCIATED EQUIPMENT AND HARDWARE REQUIRED FOR INSTALLATION - FROM THE TOP OF THE MAST ARM CONNECTION TO THE TOP OF THE CANTENNA SHALL NOT EXCEED 8- FEET. A TAPERED TRANSITION BETWEEN THE UPPER POLE AND CANTENNA SHALL BE INCLUDED.
- 4 ANTENNAS LOCATED ON THE SIDE OF THE POLE, ALONG WITH ALL OTHER HARDWARE REQUIRED FOR COMPLETE INSTALLATION, SHALL FIT WITHIN A 38"H X 16"W X 12"D (MAXIMUM) SHROUD AND SECURELY STRAPPED TO THE POLE. THE SHROUD SHALL BE COLORED TO MATCH THE POLE.
- 5 RADIO FREQUENCY WARNING LABELS SHALL BE MOUNTED EXTERIOR TO THE POLE. A 4" X 6" (MAXIMUM) PLATE WITH CARRIER'S NAME, LOCATION IDENTIFYING INFORMATION, AND EMERGENCY TELEPHONE NUMBER SHALL BE PERMANENTLY FIXED TO THE POLE.
- 6 EQUIPMENT CABINET SHALL BE ROUND, GALVANIZED STEEL WITH A PREFERRED 16" DIAMETER (20" DIAMETER MAXIMUM) AND A 5'-8" MAXIMUM HEIGHT. EQUIPMENT CABINET AND POLE SHALL MATCH COLOR. ALL EQUIPMENT SHALL BE LOCATED INTERNAL TO THE EQUIPMENT CABINET OR RECESSED AS MUCH AS POSSIBLE. A 100 AMP METER HOUSING (WITH LEVER BYPASS) FOR CARRIER ELECTRIC SERVICE SHALL BE RECESSED INTO THE EQUIPMENT CABINET. METER DISCONNECT SHALL BE RECESSED INTO THE CABINET. METER SHALL BE PROPERLY GROUNDED PER NEC. A HANDHOLE FOR STREETLIGHT ELECTRICAL SERVICE SHALL BE PROVIDED. AT EACH EQUIPMENT CABINET HANDHOLE, PROVIDE A SUBMERSIBLE, WATERPROOF, IN-LINE FUSE HOLDER WITH FNQ-15a FUSE FOR EACH HOT AND A SUBMERSIBLE, WATERPROOF CONNECTOR ON NEUTRAL (IF REQUIRED). A PASSIVE VENTILATION SYSTEM SHALL BE PROVIDED FOR TEMPERATURE CONTROL. POLE AND EQUIPMENT SHALL BE GROUNDED TO MEET APPLICABLE NEC SECTIONS INCLUDING (BUT NOT LIMITED TO) 410.30(B)(5), 250.118, AND 250.122. ALL HARDWARE ATTACHMENTS SHALL BE HIDDEN.
- 7 PRECAST CONCRETE FOUNDATIONS DESIGNED TO MEET ACI 318-14 ARE PREFERRED AND SHOULD BE INSTALLED WHENEVER POSSIBLE. A MINIMUM OF FOUR (4) 2" PVC SCHEDULE 40 CONDUIT SWEEPS SHALL BE INSTALLED. CONDUIT SHALL ACCOMMODATE LPC ELECTRICAL, CARRIER ELECTRICAL, AND FIBER. ANY ADDITIONAL CONDUIT SWEEPS ARE FOR FUTURE LPC USE. ANCHOR BOLTS SHALL BE HIDDEN FROM VIEW. TOP OF FOUNDATION SHALL BE 4 INCHES ABOVE FINAL GRADE. FOUNDATION DEPTH, EMBEDMENT DEPTH, DIMENSIONS AND REINFORCEMENT SHALL BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF COLORADO.
- 8 FIBERGLASS PULL/SPLICE BOXES ARE REQUIRED FOR SEPARATE ELECTRICAL AND FIBER SERVICES. REFER TO NEC ARTICLE "PULL AND JUNCTION BOXES AND CONDUIT BODIES MINIMUM SIZE" FOR BOX SIZE REQUIREMENTS BASED ON CONDUIT AND WIRE SIZES. FIBERGLASS PULL/SPLICE BOXES SHALL BE SET 1' - 3' FROM THE CONCRETE FOUNDATION. THE WIRE TERMINATIONS IN THIS BOX SHALL BE MADE USING SUBMERSIBLE INSULATED PEDESTAL LUG CONNECTIONS. PROVIDE ONE MULTI-LUG CONNECTOR FOR EACH PHASE, NEUTRAL, AND GROUND CONNECTOR TO BE SPLICED IN THIS IN-GRADE SPLICE BOX.

ELECTRIC SERVICES

CALL 1-800-922-1987 TO OBTAIN UTILITY LOCATES

NOT TO SCALE



CITY OF
LONGMONT
COLORADO

1100 S SHERMAN ST
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**SMALL CELL FACILITIES
LPC STREET LIGHT POLES
(CONTINUED)**

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