



Electric Utility

SPECIFICATIONS FOR 5G INSTALLATIONS

**REVISED
XX/XX/XX**

ROSEVILLE ELECTRIC UTILITY SPECIFICATIONS FOR 5G INSTALLATIONS

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POLICY FOR NEW 5G SMALL CELL INSTALLATIONS

DEVELOPER RESPONSIBILITY

1. Land rights.
2. Trenching, excavation, backfill and grading, compaction, all surveying and staking of grades, property lines, rights-of-way, sidewalks, etc.
3. Furnish and install all materials not installed by Roseville Electric crews, which shall include, but not be limited to: primary junction boxes, pads, conduits (primary, secondary and streetlight), secondary service boxes, streetlight pull boxes, and all applicable fittings. These items are to be installed per Roseville Electric Specifications for Commercial Construction.
4. Furnish and install secondary service entrance conduit and conductors from the secondary service box, transformer or streetlight controller, to the 5G installation per the National Electric Code.
5. Pay for all materials attributed to the development as determined by the Electric Utility Director and installed by Roseville Electric which shall include, but not be limited to: transformers, conductors, switchgear, meters and all applicable electric fittings.
6. Pay for installation of materials in Item 5.
7. Pay for indirect charge as determined by the Electric Utility Director.
8. Pay per 5G installation fee for electric service.
9. Coordination with other utilities (SureWest, Pacific Gas & Electric, Comcast Cable Communications, Inc., and City Water, Sewer, Refuse, etc.). Any and all costs assessed by these utilities.
10. The Electric Utility Director will require Items 5, 6 and 7 above to be paid before Roseville Electric will purchase non-stock items or inspect any premises for acceptance and installation of electrical facilities.

POLICY FOR NEW 5G SMALL CELL INSTALLATIONS

ROSEVILLE ELECTRIC RESPONSIBILITY

1. Design of electrical system for providing service to the 5G installation.
 2. Installation of all materials in Item 5 under Developer Responsibility.
 3. Installation of meters and current transformers as required.
 4. Roseville Electric shall construct the necessary facilities to deliver power to the Developer's area of responsibility as determined by the Electric Utility Director and outlined in City Ordinance 2407 dated March 20, 1991.
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- NOTE:
- (1) This policy shall be subject to change by the City Council at any time in accordance with procedures established by the laws of the State of California and the provisions of the City of Roseville Municipal Code.
 - (2) All work to be performed by the Developer shall be subject to the approval of the Roseville Electric Utility Director.

POLICY NOTES FOR NEW 5G SMALL CELL INSTALLATIONS

1. The Engineer shall mean the Director of the City of Roseville Electric Department or any of his appointed representatives.
2. The Engineer reserves the right to make minor changes at any phase of the project to insure the proper installation of its facilities.
3. The Engineer has sole authority on the approval of any design or material changes requested by the owner or contractor.
4. Any material or design change made without prior approval by the Engineer is done so at the owners or contractors own risk.
5. It is the responsibility of the developer's contractor to provide all the necessary field surveying and staking to insure adequate control points for all utility inspectors to verify proper location and grade of all utilities. The Electric Department assumes no responsibility for placement of its facilities in or on improperly marked locations.
6. Installation of Electric Department facilities to be done according to Electric Department designed job print and City of Roseville Electric Department Specifications for Residential Construction.
7. All construction of electrical facilities shall conform to State of California General Order no. 128, "construction of underground electric supply and communication systems" as well as applicable OSHA regulations.
8. A 12.5' Public Utility Easement is required along all street frontages unless otherwise specified by the Electric Department.
9. Vertical conduit risers, at transformer, switch and secondary service box locations are to be adequately supported to prevent leaning during the backfill operation.
10. Bottom of all utility trenches to be square and clean.
11. Backfill for joint utility trench shall be sand compacted 85% to 6" above the 4 utilities occupying the joint trench. Then backfill with native material free of all deleterious materials, rocks or boulders compacted to 90% within one (1) foot of final grade and 95% the last foot. Sand shading material to be, screened free, No. 4 sieve, 4mm maximum particle size, free of sharp edges, and approved by each utility trench inspector. (DG will not be approved.)

POLICY NOTES FOR NEW 5G SMALL CELL INSTALLATIONS

12. Street crossing shall be 24" wide and 57" deep from top back grade of sidewalk. If, during excavation, a shallow object is encountered, (water, sewer main, etc.), an excavation underneath the object shall be done with a minimum 20' gradual transition each side of the object to meet clearances as specified in State of California General Order #128, Construction of Underground Electric Supply and Communications Systems.
13. Work shall not proceed unless utility trenches are in accordance with all Cal OSHA requirements (see Page 2.1).
14. Developer's contractor shall assume all liability for open trenches and shall provide and maintain all barricades as required for safety.
15. All transformer pads, switch pads, junction boxes and secondary service boxes shall be set at final grade (including landscaping). Any facilities, which in Roseville Electric's judgement, require raising, lowering, leveling, or relocation to meet final grade requirements will be done by the developer at their expense.
16. Where mounded landscaping or severe slopes are planned or added at a later date the developer is responsible for providing retaining walls or appropriate grade changes to insure adequate clear, level workspace.



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PROCEDURES FOR NEW 5G SMALL CELL INSTALLATIONS

1. Submit construction documents to the Roseville Electric New Services Department for review and comment. This shall include plans, structural calculations and materials submittals.
2. Perform an on-site field meeting with Roseville Electric which shall include, but not be limited to: determine point of connection, existing conditions including conduit fill, spare breakers availability, etc.
3. Obtain an encroachment (EN) and building (BD) permit as required through the City of Roseville Development Services Department.
4. Perform a pre-construction with all City of Roseville Utilities and all other utilities as required prior to the start of construction operations.

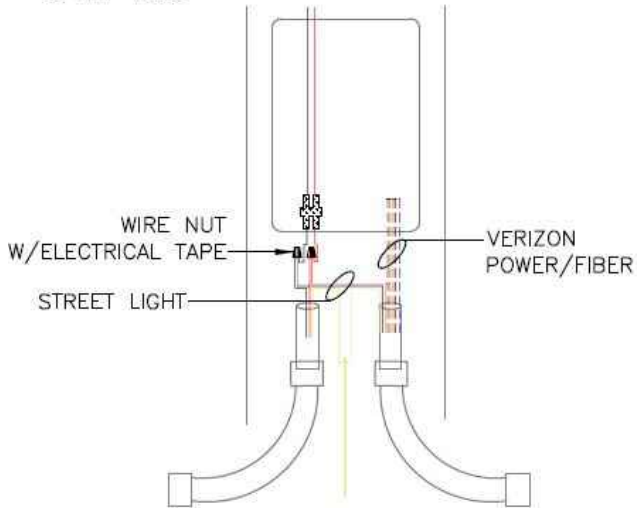


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INSPECTION FOR NEW 5G SMALL CELL INSTALLATIONS

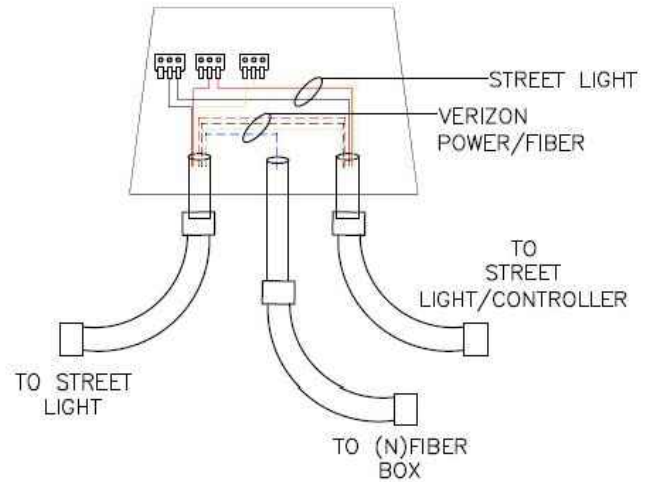
1. Roseville Electric provides inspection for all facilities installed for its use. A minimum 24 hour advance notice is required for all work requiring inspection. To schedule an inspection, contact the Engineer in charge of the project or call Roseville Electric at 774-5600 between the hours of 8 am and 4 pm Monday through Friday.
2. All material and work shall be subject to inspection, examination, and testing by Roseville Electric at any time during installation or construction. The developer shall provide and maintain proper facilities and safe access for all such inspections or testing.
3. The developer shall give 24 hours advance notice to Roseville Electric for inspection of the following: backfilling trench, placement of vaults, conduits or boxes, mandrelling of conduit, and setting of pads for switches or transformers.
4. Failure of the developer to adhere to the above provisions may result in the developer being required, at his own expense, to remove, uncover, or otherwise enable inspection of such work by the Inspector.
5. Any unapproved material, design change, or improperly installed system not meeting Roseville Electric Specifications shall be replaced and properly installed by the developer or his contractor at the developers expense.
6. Rejected work will result in delaying electric service to the project until the inadequacies are corrected. Delays beyond the scheduled date for electric final construction may result in the project being rescheduled to the next available construction date for electric crews.

BUSSMANN IN-LINE FUSE HOLDER 2-POLE PN# HEX-AA
5 AMP FUSE



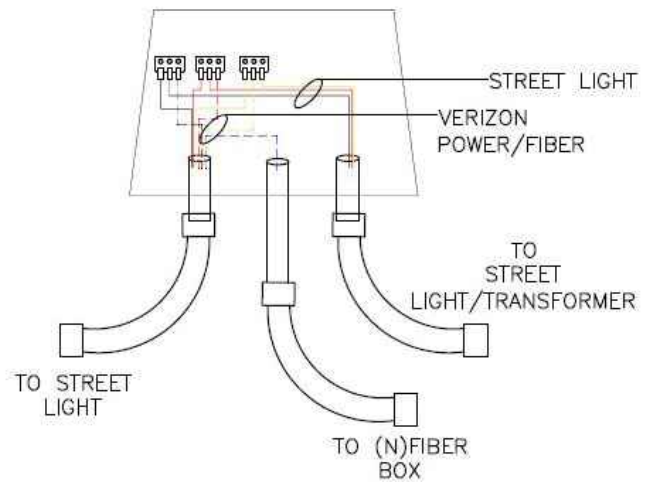
HANDHOLE DETAIL

POLARIS SUBMERSIBLE CONNECTOR PN# ISPB2/0-3



PULLBOX DETAIL - W/CONTROLLER

POLARIS SUBMERSIBLE CONNECTOR PN# ISPB2/0-3



PULLBOX DETAIL - TRANSFORMER FED

