

6350302 PULL, SPLICE, AND JUNCTION BOXES  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comment: (12-5-13)

**PULL, SPLICE, AND JUNCTION BOXES.**  
(REV 11-21-13)

SUBARTICLE 635-3.2 is deleted and the following substituted:

**635-3.2 Pull and Splice Boxes:** Install pull and splice boxes in accordance with the Design Standards, Index No. 17700. Ensure pull and splice boxes are sized for the amount of cable to be placed inside. Ensure that the pull or splice box cover is flush with the ~~finished grade~~ *concrete apron* or sidewalk. Do not install pull or splice boxes in roadways, driveways, parking areas, ditches or public sidewalk curb ramps. Avoid placing pull and splice boxes in low-lying locations with poor drainage. Ensure that pull and splice boxes house fiber optic cable without subjecting the cable to a bend radius less than 14 times the diameter of the cable.

**635-3.2.1 Placement and Spacing:** Place pull and splice boxes as shown in the Plans and at the following locations, unless directed otherwise by the Engineer:

1. At all major fiber optic cable and conduit junctions.
2. ~~Approximately~~ *At least* every 2,500 feet for fiber optic cable applications in rural areas with any continuous section of straight conduit if no fiber optic cable splice is required.
3. At ~~a maximum of~~ *least every* 1,760 feet for fiber optic cable applications in metropolitan areas.
4. At each end of a tunnel, and on each side of a river or lake crossing.
5. On each side of an aboveground conduit installation, such as an attachment to a bridge or wall.
6. At all ~~turns~~ *is it clear what a turn is* in the conduit system.
7. Near the base of a service pole or communication cabinet to provide:

Response: Regarding your first comment, there should never be a grassed area because all pull and splice boxes require a concrete apron. "Finished grade" could imply grass is the very reason we are proposing the change.

Regarding the second comment, we want the pull boxes to be placed approximately every 2500 ft vs. at least every 2500 ft. The reason is that "at least every 2500 ft" doesn't allow it to be placed one foot less and would allow it at 3000 ft. We just want it placed approximately every 2500 ft. For #3 "at least every 1760 ft" would allow it to be more, but we don't want it to be more than 1760 ft.

Finally, "turn" is understood to most installers/inspectors. It is a typical best practice to place a box anywhere a significant change in conduit direction occurs. The goal is for conduit to be placed in a line as straight as possible from box to box, point to point, etc.

No changes made.

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Comment: (12-23-13)

**635-3.2:** You are deleting the wording “finished grade” and replacing with concrete apron. How will you now address boxes placed on the shoulders where concrete aprons or sidewalk are not present? I would recommend leaving finished grade there or rewording to something more definable.

**Response:** Please see response to previous comment.

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