

The questions below were asked and the answer to those questions follow.

- 1) In the General Specifications, Sections 6.1-6.1.2 refers to the installation of CAT 5e Gigabit cabling. The Cable Plant Scope of Work states that the installation shall include CAT 6 cabling. Please clarify if we are to use Category 6 cabling.
- 2) In the Cable Plant section of the Scope of Work, the Bid Alternates are referring to "(3) Sets of 6 Pairs of SingleMode and 6 Pairs of Multi-Mode Fiber Optic Cables." Are you referring to 6 Strand SM/6 Strand MM hybrid fiber cabling? Or, is this 12 Strand SM/12 Strand MM? I am assuming (3) sets means that there will be (3) separate fiber runs if this alternate is used, correct? Is there an average distance, or a limit you can set so we are all bidding the same amount of fiber?
- 3) Existing fiber types and strand counts are not mentioned in the Scope of Work. Please clarify strand quantity, multimode fiber type (62.5 or 50um/OM2, OM3 or OM4) and/or singlemode. This information is necessary to provide the costs for retermination of all existing fiber, the connectors and patch cables.
- 4) Scope of Work mentions replacement of all patch cables with CAT 6 copper patch cables. It only mentions repair or replacement of (48) data jack locations. Does this include new cabling, or just a retermination at the jack location? Or is this left to our discretion?
- 5) Cable Plant Scope of Work, Item 5 for each site reads, "Contractor will test and label all existing data drops in MC and all IC's. Any failing cables will be noted. Contractor will repair or replace 48 data jack locations, designated by the District Representative that were previously installed by others. Contractor will test and submit test results as a separate document, that the required document for the newly installed Data station cable drops." First, is the labeling of existing drops only needed in the closet, or the station too? You are only asking for the repair/replacement of (48) jack locations. The separate testing documentation would be for the (48) drops in question vs. the retest of all cabling, correct?
- 6) One more question:-Spec Section 6.1.4 mentions color coding for all patch cords to devices. Does the district have a color code preference for new horizontal data cabling links and jacks? I didn't see this in the spec.

1. The installed cabling is to be Cat 6 cabling.
2. The sets refers to 12 Strands of SM and 12 Strands of MM fiber in a common bundle. The 3 sets refers to the replacement of 3 runs that are currently in place. It was stated at the job walk that if the fiber currently in place was damaged and could not test out that three would possibly be replaced. The three would be going to different locations. The alternate may or may not be done depending on the testing. I don't have an average distance for the fiber, but the maximum distance would be 1000 feet.
3. In Section 7 is given an overview of the network. The Interconnects are listed. Each interconnect has 6 strands of single mode and 6 strands of multimode fiber connecting it to the

MDF. In addition, there are two twelve strand single mode fibers terminated at the high school and Kern avenue and a twelve strand single mode fiber terminated at the middle school.

4. The replacement of the 48 ports will be determined after the testing of the copper cabling. 48 ports will be identified that need to be fixed. If they can be repaired by reterminating, then that is acceptable, if the cabling needs to be replaced then that will be required. In either case, the drop will need to pass testing.
5. Both the closet and the data station will need to be labeled if the labeling is missing or incorrect. There will be the testing of all drops in one set of documents. We will then determine which 48 drops to fix. Those 48 drops will then be fixed and retested. The retesting of the 48 drops will be in a separate document from the original testing document.
6. The color code for the copper patch cables is given in section 6 on page 6 in section 6.1.4. The color code for the fiber patch cables is in section 7 on page 3 under number 1.