

### South Midland Bid Questions – Received via Email after Addendum #3:

- 1) Q: The bid item Filter Material special does not [have] a graduation specification. Per CDOT table 703-7 there are three options but since it's called "special" it might have it's own graduation.  
*A: There is a gradation for bid item Filter Material (Special) in the Revision of Section 703 Project Special Provision.*
- 2) Q: In revision of sections 504 and 641 Soil Nail Wall, under section 504.11, it states that "self-drilling soil nail bars (also known as hollow, self-grouting or pressure grouted soil nail bars) shall not be used unless indicated on the plans." On the ground nail wall plans, sheet number 194, there is a note that states "centralizers at 10' O.C. max and within 2' of the top and bottom of soil nail bar (not required for injection bars)". This note is implying that injection bar is an option. Are injection bars allowed for use on this project? And if so, is galvanization adequate protection? Meaning double protection would not be required.  
*A: Yes, injection bars are allowed for use on this project. Addendum #2 addressed epoxy coated nails. Substituting galvanization for epoxy is addressed in the Revision of Sections 504 and 641 Standard Special Provision ([504.03(c)].*
- 3) Q: In revision of sections 504 and 641 Soil Nail Wall, under section 504.18 Test soil nail rejection, it states that the soil nail contractor shall propose and provide plans and calculations for alternative methods for review and acceptance by the Engineer and shall install replacement verification test soil nails. This is typical of a design/build project. In this case, the soil nail contractor is not designing the project. IF verification tests fail, is the soil nail contractor actually responsible for providing plans and calculations, at the soil nail contractors expense, for this project? IF this is the case, each soil nail contractor would feel obligated to add engineering costs to their bid, AND expect that a change order would be acceptable for bidding a design that was not their own... that failed... for materials ordered, added or replaced.  
*A: The soil nail contractor will not be responsible for providing plans and calculations if the installed soil nails and materials are consistent with the plans.*
- 4) Q: Would acid stained shotcrete be allowed in lieu of pigmented shotcrete for sculpted finish? Cost savings would be significant.  
*A: The shotcrete shall be integrally colored per the specification.*
- 5) Q: There are a few existing culverts under the road that should be removed. Should they be backfilled with flow fill or native material after the removal? Please advise.  
*A: The resulting trenches may be backfilled with either embankment or flowfill material below the bottom of the new aggregate base course. This will not be paid for separately, but shall be included in the cost of the culvert removal.*
- 6) Q: What is the pay item for 4' Sanitary Manhole present at STA 54+75.82 on sheet number 32? Should that be included with item no. 604-83108 - 8-inch plastic pipe sewer?  
*A: This will be added to the 604-30010 bid item.*

- 7) Q: Note 2 on sheet number 96 requires the concrete slope and ditch paving to have wire mesh. Also, note 2 refers to CDOT section 507 which requires the concrete to be Macro Fiber-Reinforced Class B concrete. Are both Wire mesh and Fiber reinforcement required for the apron?

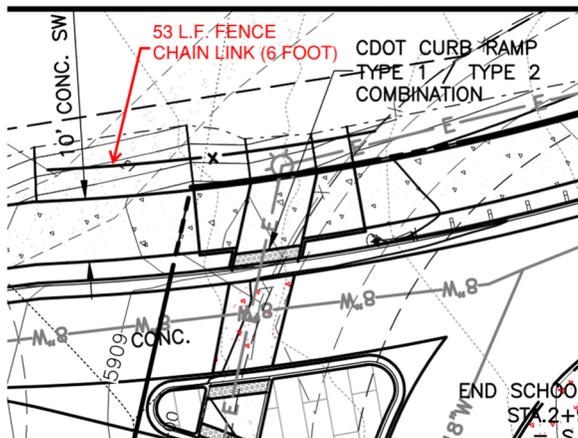
*A: Either type of reinforcement is acceptable. Please note that if fiber reinforced concrete is used it will require its own approved concrete mix design.*

- 8) Q: What are the specifications for the 20 ft gate on sheet number 84?

*A: Driveway Gate (Single) per CDOT M-607-1 with 1" I.D. standard galvanized pipe (all welded construction) and woven wire infill.*

- 9) Q: What is the location of the chain link fence? We understand that it is at the roundabout based on the fence tabulations. But we could not locate it in the plan sheets.

*A: This chain link fence reconnects the sections of fence removed along the edge of the school property. These removal sections are shown on sheet 39. The new chain link fence is not labeled, but is shown on sheet 63.*



- 10) Q: Is the "fence wood" bid item the Pedestrian Log Railing as identified in the plans?

*A: Yes.*

- 11) Q: Is there a separation requirement between the 2" and the 6" Conduits or the 2" and 3"?

*A: 2" conduit delineated as FO shall have a separation of 1' from the 3" and 6" electrical conduit.*

- 12) Q: What sizes are the following: Electric Lighting pull Boxes, Electrical Transformer Vaults, Electrical vaults?

*A: Vaults and Boxes are to be supplied by the Electric Department and installed by the contractor.*

*Electric Lighting Pull box: 18"X24"X13" (Quazite PHA 132418HE002 with a traffic rated lid PG1324HA0017)*

*Electric Transformer Vault: 56"X56"X32" fiber vault*

*Electrical Vault: 56"X56"X48" Round Splice Vault.*

13) Are the transformer surface pads or vaults under transformers?

*A: Transformers are vaults under transformers.*

14) What is the cover for conduit intended for secondary voltages?

*A: All conduit intended for secondary voltages will be buried at no less than 24 inches. Lesser depths than indicated above may be used where supplemental protection is provided and approved by the electric department.*

15) What is the cover for conduit intended for primary voltages?

*A: All conduit intended for primary voltages will be buried at no less than 4 feet from the top of pipe to the finished grade. Lesser depths than indicated may be used where supplemental protection is provided and approved by the electric department.*

16) Q: The specifications state all visible galvanized steel supports per section 522. It also states "all costs associated with applying environmental stain to galvanized steel surfaces will not be paid for separately but shall be included in the work". Therefore, my questions are:

1. There is no bid item for galvanized staining, Why not?

2. What items receive staining? guard rails, pipe flare end sections, fence gates, sign posts?

*A: Stain is typically applied at the stain manufacturer facility and not performed by the contractor. The cost for this is then included in the installed price of the item (e.g. guardrail). The items that will receive stain include all galvanized guardrail, guardrail posts and end anchorages. Galvanized hardware (bolts, nuts washers) for the guardrail and end anchorages do not need to be stained.*

17) Q: Per sheet 23 tabulation, the bid quantity is 190 lf. I believe the current proposal quantity is 165 lf. Please double check me. The 165 lf quantity is missing 3-mile bridge structure.

*A: The 190 lf quantity shown on sheet 23 is correct. The quantity in the SAQ sheet and Bid Schedule will be updated.*