

RFB-2948 -York County Fiberoptic Cable Installation

Base Proposal

Date: 11/12/2024

SYSTEC101 will be providing the following:

Please note that based on County's RFB, SYSTEC101 will furnish and install a complete Fiber Optic Cabling infrastructure and connectivity solution.

Site address : York County Government Center (Main Entrance Foyer), 6 S Congress St, York, SC 29726 (Includes Multiple Sites)

Please note that "The performing and bonding rate is not included in this proposal. If required, it will be a 2.5% additional charge from the value of the proposal"

| Addendum | Acknowledgement |
|---------------------|---------------------|
| Addendum - 1 | Included |
| Addendum - 2 | Included |
| Addendum - 3 | Included |
| Addendum - 4 | Included |
| Grand Total: | \$ 96,057.86 |

Scope of Work

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SYSTEC101 will furnish, install, terminate, test and certify for a complete fiber optic cabling infrastructure.

Fiber Optic Cable Installation

Heckle Complex, 1070 Heckle Blvd, Rock Hill, SC 29732

1. We will furnish and install 12-strand multimode (OM3) loose tube outdoor rated single-jacket armored fiber optic cable from fiber run from admin building 1 to building 2. We will terminate and test the 12-strand fiber installed with LC multimode connectors. We will also furnish and install (4) 6 fiber multimode adapter panels and (2) 1U rack mount fiber enclosures.

Government Center, 6 S Congress St, York, SC 29745

2. We will furnish and install 12-strand singlemode (OS2) loose tube outdoor rated single-jacket armored fiber optic cable from fiber run from Government Center to Historic Courthouse. We will terminate and test the 12-strand fiber installed with LC singlemode connectors. We will also furnish and install (4) 6 fiber singlemode adapter panels and (2) 1U rack mount fiber enclosures.

3. We will furnish and install 6-strand multimode (OM3) indoor rated single-jacket armored fiber optic cable from fiber run within Government Center Building. We will terminate and test the 6-strand fiber installed with LC multimode connectors. We will also furnish and install (2) 6 fiber multimode adapter panels.

Moss Justice Center, 1675-1 Old York Hwy, York, SC 29745

4. We will furnish and install (6) 12-strand multimode (OM4) indoor rated single-jacket armored fiber optic cable from fiber run within Moss Justice Center. We will terminate and test the 12-strand fiber installed with LC multimode connectors. We will also furnish and install (12) 6 fiber multimode adapter panels and (6) 1U rack mount fiber enclosures. We will also furnish and install (1) 4U fiber enclosure as well. We will install 100 feet of cable tray as well at Moss Justice Center.

Public Safety Communications, 149 W Black St, Rock Hill, SC 29730

5. We will furnish and install (3) 12-strand multimode (OM3) indoor rated single-jacket armored fiber optic cable from fiber run within Public Safety Communication. We will terminate and test the 12-strand fiber installed with LC multimode connectors. We will also furnish and install (12) 6 fiber multimode adapter panels and (3) 1U rack mount fiber enclosures. We will also furnish and install (1) 4U fiber enclosure as well.

Animal Shelter, 713 Justice Blvd, York, SC 29745

6. We will furnish and install 12-strand singlemode (OS2) loose tube outdoor rated single-jacket armored fiber optic cable from fiber run from Animal shelter to Moss Justice. We will terminate and test the 12-strand fiber installed with LC singlemode connectors. We will also furnish and install (4) 6 fiber singlemode adapter panels and (2) 1U rack mount fiber enclosures. We will trench and install new 2" conduit for a distance of 550 feet from Animal Shelter to nearest existing manhole.

Common:

1. SYSTEC101 will install, terminate, test, certify and label all the cables provided above.
2. All labeling will be machine printed.
3. All the penetrations made for the installation of telecommunication cables will be firestopped using putty and sealant.
4. All terminations and testing will be done as per TIA/EIA/BICSI standards.
5. We will provide the Owner with closeouts (test results and as-builts) at the end of the project.

Qualifications:

1. Due to extreme price fluctuations, we can only hold the material pricing for 90 days. Any material price hikes after 30 days will be borne by the client.
2. All work is to be performed during regular working hours, unless otherwise noted.
3. If required, stub ups, conduit and coring are to be provided by customer.
4. Pricing does not include any surface raceways, wiremold, power poles, UPS and PDUs or any scope of work related to security, networking equipments.
5. SYSTEC101 must have proper access to all areas necessary to complete the project in a timely fashion.
6. No demo, cutover, ISP cabling link is included in this proposal.
7. Based on Corning fiber optic cabling solution.
8. Any additional labor or material required beyond the scope of this proposal will be done on a change order, signed by a customer representative.
9. Pricing does not include any cable tray or its related products.
10. No copper backbone cabling is included in this proposal.
11. Uplinking the entire network using active electronics by others. We will only provide empty network infrastructure, powering the network using network equipment and routers, and connecting them to ISP link is responsible by owner or ISP.
12. The PVC conduits, conduit rough-in, pull boxes, backboxes, panels to be existing other than specified.

13. The grounding and bonding, grounding busbars for the telecommunication rooms to be done by the electrical contractor (E.C). We are not responsible for it. All racks in all network closets to be existing.
14. We will only route the fiber optic cables in the existing tunnel system pathways for fiber optic cabling runs.
15. No Innerducts for fiber optic cabling, cable runways, fire stopping is included in this proposal. If necessary, a new change order will be proposed.
16. The fiber optic backbone cabling included in this proposal is based on the site plan;

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Equipment and Labor

| Part Number | Fiber Backbone Cabling | Quantity | Material Price | Labor Cost | Unit Price | Ext.Price |
|----------------------|--|----------|----------------|------------|-------------|--------------|
| 012T88-33180-A3 | Corning 12-strand tight-buffered indoor armored multimode (OM3) plenum cable (per | 1100 | \$ 3.25 | \$ - | \$ 3.25 | \$ 3,577.20 |
| 006T8P-31180-29 | Corning 6-strand tight-buffered indoor/outdoor multimode (OM3) plenum cable (per f | 225 | \$ 1.79 | \$ - | \$ 1.79 | \$ 402.30 |
| 012ZUC-T4F22D20 | Corning ALTOS® Lite 12-strand singlemode (OS2) loose tube outdoor rated single-jacke | 2750 | \$ 0.64 | \$ - | \$ 0.64 | \$ 1,749.00 |
| 012T88-33190-A3 | Corning 12 Strand 50/125 Multimode OM4 Indoor Armored Plenum Fiber Optic Cable | 3100 | \$ 4.42 | \$ - | \$ 4.42 | \$ 13,689.60 |
| CCH-04U | Corning 4U fiber enclosure accepts up to 12 CCH panels, cassettes | 2 | \$ 505.99 | \$ - | \$ 505.99 | \$ 1,011.98 |
| CCH-01U | Corning 1U fiber enclosure accepts up to 2 CCH panels, cassettes | 15 | \$ 334.80 | \$ - | \$ 334.80 | \$ 5,022.00 |
| CCH-CP06-E4 | Corning 6F LC duplex multimode (OM3/OM4) adapter panel | 24 | \$ 68.54 | \$ - | \$ 68.54 | \$ 1,645.06 |
| CCH-CP06-A9 | Corning 6F LC duplex singlemode (OS2) adapter panel | 8 | \$ 82.80 | \$ - | \$ 82.80 | \$ 662.40 |
| 95-050-99-X | Corning OM3/OM4 LC Connectors | 228 | \$ 21.42 | \$ - | \$ 21.42 | \$ 4,883.76 |
| 95-200-99 | Corning OS2 LC Connectors | 48 | \$ 22.80 | \$ - | \$ 22.80 | \$ 1,094.40 |
| CF105/300EZ | Cablofil cable tray 12"x4", 10ft section(Electro Zinc) | 10 | \$ 140.40 | \$ - | \$ 140.40 | \$ 1,404.00 |
| SWKEZ | Cablofil splice washer kit | 1 | \$ 97.20 | \$ - | \$ 97.20 | \$ 97.20 |
| RADT90KIT-2EZ | Cablofil 90 degree kit for bend or sweep with 12" arc radius | 4 | \$ 158.40 | \$ - | \$ 158.40 | \$ 633.60 |
| FASP300PG | Cablofil 12" trapeze bracket | 20 | \$ 10.33 | \$ - | \$ 10.33 | \$ 206.64 |
| THRD3/8EZ | Cablofil 3/8" threaded rod | 20 | \$ 15.11 | \$ - | \$ 15.11 | \$ 302.16 |
| EZFW3/8 | Cablofil 3/8"fended washer | 1 | \$ 30.00 | \$ - | \$ 30.00 | \$ 30.00 |
| EZHN3/8 | Cablofil 3/8"hex nut | 1 | \$ 42.00 | \$ - | \$ 42.00 | \$ 42.00 |
| DROPOUTKITPG | Cablofil dropout kit | 8 | \$ 42.00 | \$ - | \$ 42.00 | \$ 336.00 |
| GNDSB | Cablofil grounding kit | 10 | \$ 18.00 | \$ - | \$ 18.00 | \$ 180.00 |
| CABLEEXIT100PG | Cablofil cable exit | 4 | \$ 8.80 | \$ - | \$ 8.80 | \$ 35.18 |
| 7000006136 | 3M Zinc Spray | 1 | \$ 26.40 | \$ - | \$ 26.40 | \$ 26.40 |
| X-HS WU | Hilti threaded rod hanger | 40 | \$ 10.28 | \$ - | \$ 10.28 | \$ 411.36 |
| WP1250P | Neptco 1/2" D Polyester fiber pull tape/mule tape, 3000' reel | 1 | \$ 179.29 | \$ - | \$ 179.29 | \$ 179.29 |
| GEL-5 | Greenlee cable pulling lubricant, 5-Gallon | 2 | \$ 96.84 | \$ - | \$ 96.84 | \$ 193.68 |
| 894743-000 | Commscope Inflatable duct sealer | 10 | \$ 30.48 | \$ - | \$ 30.48 | \$ 304.80 |
| DS-530 | DS-530 Duct Seal Compound, 5 lb (gray) | 10 | \$ 14.40 | \$ - | \$ 14.40 | \$ 144.00 |
| DU10 | L. H. Dottie 3" Detectable Tape (Caution Buried Fiber Optic Line), 1000 ft (orange) | 2 | \$ 187.20 | \$ - | \$ 187.20 | \$ 374.40 |
| MLT2S-CP | Panduit 2" D x 7.9" L SS stainless steel standard cable tie, SS 304 (Pack of 100) | 2 | \$ 120.00 | \$ - | \$ 120.00 | \$ 240.00 |
| 2-IN-PVC-SCHED-80-20 | Cantex Schedule 80 Conduit, 2 In., 20 ft | 30 | \$ 98.40 | \$ - | \$ 98.40 | \$ 2,952.00 |
| 5133711 | Cantex 6 in. x 6 in. x 6 in. Junction Box | 8 | \$ 45.98 | \$ - | \$ 45.98 | \$ 367.87 |
| 5133720 | Cantex 2 in. Box Adapter | 16 | \$ 6.00 | \$ - | \$ 6.00 | \$ 96.00 |
| 5140108 | Cantex 2 in. Male Terminal Adapter | 10 | \$ 4.30 | \$ - | \$ 4.30 | \$ 42.96 |
| 5140052 | Cantex 2 in. Female Adapter | 10 | \$ 7.20 | \$ - | \$ 7.20 | \$ 72.00 |
| 5221022 | Cantex 2 in. x 90-Degree x 24 in. Radius Bell End Schedule 80 Special Radius Elbow | 4 | \$ 192.00 | \$ - | \$ 192.00 | \$ 768.00 |
| 6141632 | Cantex 2 in. Schedule 80 Standard Center Stop Coupling | 40 | \$ 12.00 | \$ - | \$ 12.00 | \$ 480.00 |
| 5140040 | Cantex 2 in. End Cap | 10 | \$ 3.60 | \$ - | \$ 3.60 | \$ 36.00 |
| 7210403 | Cantex ENT Cement (25Lbs) | 1 | \$ 144.00 | \$ - | \$ 144.00 | \$ 144.00 |
| N/A | Safety Equipment, Duct rodder and other accessories - Rental | 1 | \$ 3,000.00 | \$ - | \$ 3,000.00 | \$ 3,000.00 |
| N/A | Rental Equipment for Trenching | 1 | \$ 4,200.00 | \$ - | \$ 4,200.00 | \$ 4,200.00 |
| N/A | Miscellaneous Cost | 1 | \$ 2,400.00 | \$ - | \$ 2,400.00 | \$ 2,400.00 |
| Part Number | Labor | Quantity | Material Price | Labor Cost | Unit Price | Ext.Price |
| N/A | Labor for completing the stated Scope of Work | 416 | \$ - | \$ 90.00 | \$ 90.00 | \$ 37,440.00 |
| N/A | Project Management and Handling Charges | 16 | \$ - | \$ 90.00 | \$ 90.00 | \$ 1,440.00 |

Total Equipment Cost \$ 53,437.25

Total Labor Cost \$ 38,880.00

Sales Tax on Materials 7.00% \$ 3,740.61

Grand Total \$ 96,057.86

Purchase Authorization

Date