

RFB-24-29 - Fiber Network Project - Rensselaer County Sewer District

Base Proposal

Date: 10/3/2024

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 : Water St, Troy, NY 12180.

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

Grand Total:	\$	68,370.00
---------------------	-----------	------------------

Scope of Work

RFB-24-29 - Fiber Network Project - Rensselaer County Sewer District:

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

Fiber Optic Cable run - Bus Topology:

1. We will furnish and install 12-strand singlemode (OS2) loose tube outdoor rated single-jacket armored fiber optic cable from fiber run from admin building to building. 1 - Screen building then, from building. 1 - Screen building to building. 3 - Aerator Control building then, from building. 3 - Aerator Control building to building. 4 - Return Sludge Pumping Station building then, from building. 4 - Return Sludge Pumping Station building to building. 6 - Solids Disposal building then, from building. 6 - Solids Disposal building to building. 5 - Machine Shop building. Also, shall provide (OS2) LC to LC, Duplex fiber patch cable, 2M.

Admin Building Build out:

1. We will furnish and install (1) Middle Atlantic SFR Series swing frame wall mount rack, 18" Deep, 20 U (black).
2. We will furnish and install (1) Corning 4U fiber enclosure accepts up to 12 CCH panels, cassettes.
3. We will furnish and install (1) Corning CCH Pigtail Splice Cassette 12 F, LC, UPC, Duplex, Single-mode (OS2), with 12 Heat-Shrink fusion splice protectors.
4. We will furnish and install (2) 2 in. x 10 ft. Rigid Metal Conduit and necessary fittings.

Other Buildings. (1, 3, 4, 5, 6) Build out:

1. We will furnish and install (1) Middle Atlantic WM Series open frame wall mount rack, 18" Deep, 8 RU, (black).
2. We will furnish and install (1) Corning 1U fiber enclosure accepts up to 2 CCH panels, cassettes.
3. We will furnish and install (1) Corning CCH Pigtail Splice Cassette 12 F, LC, UPC, Duplex, Single-mode (OS2), with 12 Heat-Shrink fusion splice protectors.
4. We will furnish and install (2) 2 in. x 10 ft. Rigid Metal Conduit and necessary fittings.
5. We will furnish and install (1) 3/4" x 4 x 8 Fire Retardant Plywood backboard.

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 30 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 provided by the electrical contractor (E.C). We are not responsible for it.**
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.**
14. **We will only route the fiber optic cables in the existing tunnel system pathways for fiber optic cabling runs.**
15. **We will provide and install the data server rack at administration building build out only on existing fire rated plywood backboard.**
16. **No Innerducts for fiber optic cabling, cable runways, fire stopping is included in this proposal. If necessary, a new change order will be proposed.**
17. **The fiber optic backbone cabling included in this proposal is based on the site plan; Only followed by BUS Topology style fiber optic backbone cabling connectivity.**

RFB-24-29 - Fiber Network Project - Rensselaer County Sewer District

Equipment and Labor

Part Number	Fiber Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext. Price
SFR-20-18	Middle Atlantic SFR Series swing frame wall mount rack, 18" Deep, 20 U (black)	1	\$ 360.00	\$ -	\$ 360.00	\$ 360.00
WM-8-18	Middle Atlantic WM Series open frame wall mount rack, 18" Deep, 8 RU, (black)	5	\$ 240.00	\$ -	\$ 240.00	\$ 1,200.00
012ZUC-T4F22D20	Corning ALTOS® Lite 12-strand singlemode (OS2) loose tube outdoor rated single-jacket armored fiber optic cable (per ft)	3000	\$ 0.62	\$ -	\$ 0.62	\$ 1,872.00
CCH-04U	Corning 4U fiber enclosure accepts up to 12 CCH panels, cassettes	1	\$ 490.80	\$ -	\$ 490.80	\$ 490.80
CCH-01U	Corning 1U fiber enclosure accepts up to 2 CCH panels, cassettes	5	\$ 323.94	\$ -	\$ 323.94	\$ 1,619.70
CCH-CS12-A9-P00RE	Corning CCH Pigtail Splice Cassette 12 F, LC, UPC, Duplex, Single-mode (OS2), with 12 Heat-Shrink fusion splice protectors	10	\$ 480.71	\$ -	\$ 480.71	\$ 4,807.08
040402G5120002M	Corning singlemode (OS2) LC to LC, Duplex fiber patch cable, 2M	30	\$ 24.07	\$ -	\$ 24.07	\$ 722.16
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	20	\$ 30.48	\$ -	\$ 30.48	\$ 609.60
DS-530	DS-530 Duct Seal Compound, 5 lb (gray)	20	\$ 14.40	\$ -	\$ 14.40	\$ 288.00
DU10	L. H. Dottie 3" Detectable Tape (Caution Buried Fiber Optic Line), 1000 ft (orange)	1.5	\$ 187.20	\$ -	\$ 187.20	\$ 280.80
MLT2S-CP	Panduit 2" D x 7.9" L SS stainless steel standard cable tie, SS 304 (Pack of 100)	3	\$ 120.00	\$ -	\$ 120.00	\$ 360.00
544310000	2 in. x 10 ft. Rigid Metal Conduit	12	\$ 129.60	\$ -	\$ 129.60	\$ 1,555.20
63620	Halex 2 in. Rigid Compression Coupling	6	\$ 45.98	\$ -	\$ 45.98	\$ 275.90
64020	Halex 2 in. Rigid Conduit Coupling	6	\$ 10.42	\$ -	\$ 10.42	\$ 62.50
63520	Halex 2 in. Rigid Threadless Compression Conduit Connector	18	\$ 24.43	\$ -	\$ 24.43	\$ 439.78
64120	Halex 2 in. Rigid 90° Conduit Elbow	6	\$ 31.15	\$ -	\$ 31.15	\$ 186.91
61120	Halex 2 in. Rigid 1-Hole Strap	12	\$ 1.18	\$ -	\$ 1.18	\$ 14.11
26126	Halex 2 in. Rigid 2-Hole Strap	12	\$ 1.30	\$ -	\$ 1.30	\$ 15.55
27526	Halex 2 in. Rigid Plastic Insulated Bushing (4-Pack)	6	\$ 8.38	\$ -	\$ 8.38	\$ 50.26
4020	Halex 2 in. Rigid Offset Conduit Nipple	6	\$ 17.62	\$ -	\$ 17.62	\$ 105.70
FRBBA-200-1	Halex 2 in. threaded Conduit Body with Stamped Cover (type LB)	6	\$ 24.68	\$ -	\$ 24.68	\$ 148.10
1235420	Menards 3/4" x 4 x 8 Fire Retardant Plywood backboard	5	\$ 74.98	\$ -	\$ 74.98	\$ 374.88
N/A	Safety Equipment	1	\$ 1,375.00	\$ -	\$ 1,375.00	\$ 1,375.00
N/A	Duct rodder and other accessories - Rental	1	\$ 1,925.00	\$ -	\$ 1,925.00	\$ 1,925.00
N/A	Miscellaneous Cost	1	\$ 978.00	\$ -	\$ 978.00	\$ 978.00
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext. Price
N/A	Labor for completing the stated Scope of Work	250	\$ -	\$ 180.00	\$ 180.00	\$ 45,000.00
N/A	Project Management and Handling Charges	16	\$ -	\$ 180.00	\$ 180.00	\$ 2,880.00

Total Equipment Cost	\$ 20,490.00
----------------------	--------------

Total Labor Cost	\$ 47,880.00
------------------	--------------

Tax Exempt	0.00% \$ -
------------	------------

Grand Total	\$ 68,370.00
-------------	--------------

Purchase Authorization

Date