

Schools United to Provide Enhanced Resources Networks – SUPERNet Request for Proposal

SUPERNet Consortium

January 19, 2019

The Consortiums of Schools United to Provide Enhanced Resources Network (SUPERNet) is seeking proposals to enhance broadband connectivity for its members. The request for proposals seeks bids on the most cost-effective ways to connect all members of each consortium together with a fiber optic infrastructure that supports scalability and rapidly growing bandwidth needs. The SUPERNet Consortium consists of the following current existing consortium, SUPERNet, that work in coordination and cooperation to service the member districts. The special construction, installation, provisioning and/or any other non-recurring fees will be allocated to the associated consortium based on district or location of cost or proportioned. This proposal will be received by The Consortium as a competitive procurement vehicle and service evaluation. Proposals will be received for comprehensive solutions and/or by Consortium and/or for a specific regional area within The Consortium. Single or multiple awards may result from this request. Network equipment to light dark fiber does not have to come from the service provider.

Entity Number: 223076
Entity Name: SUPERNet CONSORTIUM
Primary Street: 200 S. WHITE OAK RD.
Primary City, State, Zip: WHITE OAK, TX 75693
Entity Category: SLC CONSORTIUM

All proposals are required to be submitted to the SUPERNet Consortium in response to the associated Erate 470 and RFPs. ***All proposals MUST BE submitted through this system to be accepted.*** No phone calls concerning this application will be accepted. All communication about this RFP will only be provided via the Q&A section of this RFP in which questions and answers will be posted publicly. Responses received after the stated deadline will be deemed non-responsive.

SUPERNet Consortium
White Oak ISD

RFP # FY 2019-2020
Lit or Dark Fiber Solution for SUPERNet

Proposals must be received no later than Noon, February 18, 2019

SPECIAL INSTRUCTIONS:

1. Place the signed Signature Affidavit as the first page of your proposal
2. Label the proposal packet as follows: SUPERNet- RFP # FY 2019-2020 Lit or Dark Fiber Solution for SUPERNet Consortium
3. Mail or Deliver to:

UT Health Northeast
NETNet Building
SUPERNet Consortium
ATTN: Patricia Maddox
SUPERNet Coordinator
11937 US Highway 271
Tyler, TX 75708-3154

Faxed responses will NOT be accepted

For further information regarding this proposal, contact Patricia Maddox (903) 877-5398 or email questions to supernet@woisd.net

Patricia Maddox
SUPERNet Coordinator
The Northeast Texas consortium (NETnet)
Email: supernet@woisd.net
Fax: [\(903\) 877-5402](tel:9038775402)
www.sprnet.org - Documentation
11937 US Highway 271
Tyler, Texas 75708-3154

Issued by SUPERNet Consortium

January 19, 2019

LATE PROPOSALS, AND/OR UNSIGNED PROPOSALS WILL BE REJECTED

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1. GENERAL INFORMATION

1.1 Introduction and Background

The purpose of this document is to provide interested parties with information to enable them to prepare and submit a proposal for the SUPERNet Consortium, fiscal agent, White Oak ISD.

1.2 Procuring and Contracting Department/Division

This Request for Proposal (RFP) is issued by the SUPERNet Consortium. The sole point of contact for The Consortium during the selection process is the person responsible for managing the procurement process, Patricia Maddox.

The contract resulting from this RFP will be administered by the SUPERNet Consortium, fiscal agent, White Oak ISD.

1.3 Definitions

The following definitions are used throughout the RFP.

District means the SUPERNet Consortium, fiscal agent, White Oak ISD.

The Consortium references the consolidated working arrangement between SUPERNet members.

Proposer/vendor means a firm submitting a proposal in response to this RFP.

Contractor means proposer awarded the contract.

UTHealth Northeast means The University of Texas Health Science Center, Tyler, NETNet means North East Texas Network.

1.4 Clarification and/or revisions to the specifications and requirements

Any questions concerning this RFP must be submitted in writing by mail, fax or e-mail on or before February 11, 2019.

Patricia Maddox, Coordinator
SUPERNet Consortium
US Highway 271
Tyler, TX 75708
VOICE: (903) 877-5398
FAX: (903) 877-5402
E-MAIL: supernet@woisd.net

Vendors are expected to raise any questions, exceptions, or additions they have concerning the RFP document at this point in the RFP process. If a vendor discovers any significant ambiguity, error, conflict, discrepancy, omission, or other deficiency in this RFP, the vendor should immediately notify the above-named individual of such error and request modification or clarification of the RFP document.

1.5 Vendor Conference

There will not be a public conference on this RFP. All questions should be directed to the SUPERNet Coordinator, listed above in section 1.4

1.6 Calendar of Events

Listed below are specific and estimated dates and times of actions related to this Request for Proposal (RFP). The actions with specific dates must be completed as indicated.

- RFP Release date and FCC Form 470 filing - Saturday, January 19, 2019
- Vendor question deadline - Monday, February 11, 2019 @ 12:00 PM CST
- Question response deadline - Tuesday, February 12, 2019 @ 12:00 PM CST
- Response Due date – Monday, February 18, 2019 @ 12:00 PM CST
- Awards will be announced on or before the close of the Form 471 filing window.

1.7 Contract Term and Funding

The district is seeking a contract for a period of 10 years to begin July 1, 2019 till June 30, 2029. Pricing shall stand firm and include the option to decrease price if services are increased as well as the option to decrease service if needed.

The proposal should include additional five-year term options.

The contract terms will include a voluntary one-year extension. A voluntary extension mean that the contract expires at the end of the original or additional term; and may be voluntarily extended for one or more years pursuant to the pricing in the contract. Renewal is subject to a best effort attempt by the Board of Trustees to obtain the appropriate funds for payment of the contract pursuant to Local Government Code 271.903. The Board of Trustees retains the continuing right to terminate the contract at the expiration of each budget period during the term of the contract. The contract is a commitment of the local government's current revenues only.

While White Oak ISD, fiscal agent for the SUPERNet Consortium will make every effort to pay all invoices in a timely manner, the District is covered under Sec. 2251.021. of the Government Code which states the following:

TIME FOR PAYMENT BY GOVERNMENTAL ENTITY.

- (a) Except as provided by Subsection (b), a payment by a governmental entity under a contract executed on or after September 1, 1987, is overdue on the 31st day after the later of:
 - (1) the date the governmental entity receives the goods under the contract; completed; or service.
 - (2) the date the performance of the service under the contract is
 - (3) the date the governmental entity receives an invoice for the goods or
- (b) A payment under a contract executed on or after September 1, 1993, owed by a political subdivision whose governing body meets only once a month or less frequently is overdue on the 46th day after the later event described by Subsections (a)(1) through (3).

2.0 PREPARING AND SUBMITTING A PROPOSAL

2.1 General Instructions

The evaluation and selection of a contractor and the contract will be based on the information submitted in the vendor's proposal plus references. Failure to respond to each of the requirements in the RFP may be the basis for rejecting a response.

Elaborate proposals (e.g. expensive artwork) beyond that sufficient to present a complete and effective proposal, are not necessary or desired.

2.2 Proprietary Information

Proprietary information submitted in a proposal, or in response to the RFP, will be handled in accordance with the applicable Texas State Statute(s).

2.3 Incurring Costs

Consortiums are not liable for any cost incurred by proposers in replying to this RFP.

2.4 Submitting the Proposal

Proposers must submit all materials required for acceptance of their proposal by Noon CST, February 18, 2019 to:

UT Health Northeast, NETNet Building
SUPERNet Consortium
ATIN: Patricia Maddox, Coordinator
11937 US Highway 271
Tyler, TX 75708

Proposals must be received in the above office by the specified date and time. Faxed, emailed and or electronic responses will NOT be considered.

2.5 Proposal Organization and Format

Proposals should be typed and submitted on 8.5 by 11-inch paper bound securely. Proposals should be organized and presented in the order and by the number assigned in the RFP. Proposals must be organized with the following headings and subheadings. Each heading and subheading should be separated by tabs or otherwise clearly marked. The RFP sections which should be submitted or responded to are:

- Response to general requirements (See Section 4 of this RFP)
 - Organizational qualifications & Related Experience
 - Staff qualifications and Staffing Plan References
 - Mandatory Requirements
- Response to technical requirements (See Section 5 of this RFP)
- Proposal Pricing Sheet (See Section 6 of this RFP and Attachment G)
- Required forms (See Section 8 of this RFP)

Attachment A	Signature Affidavit Vendor
Attachment B	Data Sheet
Attachment C	Reference Data Sheet
Attachment D	Designation of Confidential and Proprietary Information
Attachment E	Felony Conviction Notification
Attachment F	Conflict of Interest
Attachment G	Proposal Pricing Sheet

2.6 Oral Presentations and Site Visits

Selected vendors may be required to make oral presentations, demonstrations and/or site visits to supplement their proposals, if requested by the District. The District will make every reasonable attempt to schedule each presentation at a time and location that is agreeable to the proposer. Failure of a proposer to conduct a presentation to the District on the date scheduled may result in rejection of the vendor's proposal.

2.7 Demonstrations

Vendor(s) may be required to demonstrate their ability and previous experience in providing the request of this RFP.

3.0 PROPOSAL SELECTION AND AWARD PROCESS

3.1 Preliminary Evaluation

The proposals will first be reviewed to determine if requirements of the RFP have been met.

3.2 Submittal Evaluation

Accepted proposals will be reviewed based on the criteria in section 3.4. The district may review references, request oral presentations, and require an on-site visit and use the results in evaluating the proposals.

3.3 Right to Reject Proposals and Negotiate Contract Terms

The District reserves the right to reject any and all proposals and to negotiate the terms of the contract, in the best interest of the district.

3.4 Evaluation Criteria

The proposals will be evaluated using the following criteria and purchase price will be weighted the highest:

Erate Eligible Purchase Price (to include any necessary hardware, configuration, engineering time, installation and detailed service) and the total long-term Erate eligible cost to The Consortium to acquire the goods or services.	40
The reputation and quality of the vendor and of the vendor's goods and services	20
The extent to which the goods and services meet The Consortiums needs	20
The vendor's past relationship with The Consortium	10
The total long-term cost to The Consortium to acquire the goods or services.	10

3.5 Proposal Selection

The SUPERNet II Consortium representatives will select the proposal which offers the best value to the member district with eligible cost being the highest weighted evaluation criteria. The vendor must be an eligible Erate vendor in good standing with USAC and the Erate program.

3.6 Notification of Intent to Award

As a courtesy, the district may send a notification of award memo to responding vendors at the time of the award.

4 GENERAL PROPOSAL REQUIREMENTS

4.1 General Description

Schools United to Provide Enhanced Resources Network Consortium, SUPERNet, is seeking proposals for Lit or Dark Fiber solutions to enhance broadband connectivity for its members. The request for proposals seeks bids on the most cost-effective ways to connect all members of each consortium together with a fiber optic infrastructure that supports scalability and rapidly growing bandwidth needs and meets the members near and long-term Internet service needs. The SUPERNet Consortiums consists of the following currently existing consortium, SUPERNet, that work in coordination and cooperation to service their member districts. Proposals will be received for partial services, all of SUPERNet, or for a comprehensive solution for The Consortium. The special construction, installation, provisioning and/or any other non-recurring fees will be allocated to the associated consortium based on district or location of cost or proportioned.

The current Wide Area Network Services are transport circuits. SUPERNet will not replace current services until current contracts expire. FCC Form 471s requesting service to locations will initially be filed only in the year that the specific consortium member will cutover service. Possible cutover dates would be:

- July 1, 2019 (E-rate Funding Year 2019) for contracts expiring by June 30, 2019
- July 1, 2020 (E-rate Funding Year 2020) for contracts expiring by June 30, 2020
- July 1, 2021 (E-rate Funding Year 2021) for contracts expiring by June 30, 2021

The reason for pursuing a regional WAN through SUPERNet is that enhanced bandwidth fiber services are now required to support rapidly growing bandwidth needs and to meet the State Education Technology Directors Association standard recognized in the FCC Second E-rate Modernization order as the benchmark standard for bandwidth for school SUPERNet's and ISP connectivity:

Service are expected to originate at the SUPERNet Consortium Service Points of Presence (POP) and be delivered to the eligible service via the proposed network. The Service POPs are listed below.

The fiber network should be based on a long-term design that provides scale, manageability, serviceability for adding and deleting service locations, serviceability for high availability, bandwidth targets, and resiliency at the most cost-effective design. It is proposed that the fiber design is based on a Super Ring design with multiple Sub Rings. Each Sub Ring would originate at a Super Ring Node (LocA) for the Sub Ring and end at a different Super Ring Node, LocZ for the Sub Ring. Each District will be allocated a connection on the network to the Service POP. If dark fiber, each District will be allocated a pair of fiber on the Subring. It is estimated that this design will be the most cost effective and meet the design requirement targets of The Consortium. Alternative designs will be considered that meet The Consortium needs.

Proposed Super Ring Sites are listed below.

Additional Super Ring Sites or Secondary Hub Sites can be identified and proposed by the respondent.

The space, power and service access for a Super Ring or Hub Site should be included with the response.

Service providers (leased dark fiber and leased lit fiber) and construction companies (self-provisioned networks) can suggest their own regional hubs.

SUPERNet will, in accordance with E-rate rules, consider alternative network designs and choose the most cost-effective solution.

SUPERNet Consortium Service Points of Presence

POPS	Street Address	Latitude/Longitude
Tyler Vault	110 N College Ave, Tyler, TX 75702	32.351440 / -95.302545

The proposal(s) will provide a solution that meets the near term and long-term design components to meet The Consortium needs including the following priority requirements:

DESIGN REQUIREMENT	SERVICE OBJECTIVE
Capacity for WAN Connectivity to each member district.	See near and long-term targets per member in Appendix A.
Access to Service Points within the Region.	Members will have access to multiple Service Points of Presence within the Region.
Security	Not accessible to outside access. Encryption available without degradation of network performance.
Reliability	Available to provide access to multiple POPs. Robust, resilient network design.
Scalability	Scalable with both additional 10 Gb or fiber connections per member as needed or with higher bandwidth services.
Sustainability	Cost effective solution to meet the design requirements over an extended evaluation time line. Low maintenance and low upgrade cost. Low operations cost.
Performance based on latency, jitter measurements and protocol support	Meets target technical specifications. Extends high performance of DWDM optical backbone network to extend support to the members.

BID PARTICIPANT SITES

At the specified sites, respondent must run infrastructure or service to an existing network closet at each designated demarcation address on the “Addresses and Entry Points” worksheet of attached pricing spreadsheet.

New service for designated sites should begin at the expiration of the current transport contracts for the designated site. Advanced installation of special construction as well as service start dates and lighting of fiber will follow the issuance of a positive funding commitment from USAC.

BID SERVICE SPECIFICATIONS

SUPERNet is seeking three options for Wide Area Network bids. In accordance with FCC E-Rate program rules, the **Services Provided over a Third-Party Network includes options on the FCC Form 470 which represents any service, wired or wireless, over a third party owned network.** Respondents may bid one, two, three, or all four options.

1. The first option is a fully managed Optical Transport Network for optical transport, Layer 2 or Layer 3, leased lit fiber service for the Super Ring and Hub locations with lit fiber connectivity from each district to the Super Ring Network. One-time new construction/special construction can be bid separately from the vendors proposed monthly recurring cost for the fully managed leased lit service.

2. The second option is for a leased dark fiber/IRU solution that includes special construction, the IRU fee, fiber maintenance and operations. One-time new construction/special construction costs should be bid separately from the IRU fee. The IRU fees should be billed as an upfront payment.

Maintenance and operations monthly fees should be bid separately from the IRU fee. One-time new construction/special construction can be bid separately from the vendors proposed monthly recurring cost for the fully managed IRU fiber. Specifications for fiber construction related to this bid are contained in Appendix A.

With this option, SUPERNet will also require a managed service by which a vendor will place, provision and provide 24 x 7 x 365 technical support for the network electronics to light the fiber network.

3. The third option is, any Services Provided Over Third-Party Networks, which is any type of other service delivered over a service provider or other third party owned network that delivers bandwidth speeds outlined in the leased lit fiber option. The service must also meet the uptime, latency and jitter specifications of the leased lit fiber service.

One-time new construction/special construction can be bid separately from the vendors proposed monthly recurring cost for the fully managed services provided over third party networks. Specifications for fiber construction related to this bid are contained in Appendix A.

In E-rate terminology, **Special construction** refers to the upfront, non-recurring costs associated with the installation of new fiber to or between eligible entities. Applicants may seek funding for special construction charges in connection with leased lit fiber, leased dark fiber, and self-provisioning. Special construction charges eligible for Category One support consist of three components:

1. construction of network facilities;
2. design and engineering; and
3. project management.

Note: The term “special construction” does not include Network Equipment necessary to light fiber, nor the services necessary to maintain the fiber. Charges for Network Equipment and fiber maintenance are eligible for Category One support as separate services, but not as special construction.

All options can include special construction or one-time E-rate eligible non-recurring costs as well as E-rate eligible recurring circuit costs. Based on the bids and both a short term and long-term cost effectiveness analysis, SUPERNet will determine which, if any, of the lit service, leased dark fiber, Leased Dark fiber (IRU), or some combination of solutions is acceptable.

All E-rate applications including special construction that includes fiber are subject to review and detailed questioning. Proposals that include special construction should provide or be prepared to promptly provide the following information:

1. A map file of the proposed fiber route in KMZ or JSON format
2. The cost per foot of fiber
3. The cost per foot of fiber installation (splicing, pulling through conduit, hanging on poles)
4. The cost per foot of outside plant materials (conduit, handholes, aerial make ready materials)
5. The cost per foot of outside plant (trenching, handhole and marker installation, installation of aerial make ready materials)

The amount of special construction capital requested will be reviewed based on the cost of historical fiber builds in the region. Proposers should consider other business that may be generated by building fiber into the region and request only the special construction capital allocable to Consortium service.

The proposal should cost allocate any materials and additional labor that are incurred in Special Construction for the provider “over-building” for the providers immediate and future use above what is required to build The Consortium network.

The table below illustrates *possible* incremental costs the service provider could experience from placing excess strands for their own use into a leased lit fiber or leased dark fiber solution proposed for SUPERNet. NOTE: All cost are examples and not related to actual cost of services or cost allocation.

Item	12 Strand cable construction	48/96/144 strand cable construction	Cost Allocation Amount that service provider should remove from the special construction request
Fiber Cable	\$0.38 cents per foot	\$1.04 per foot	\$0.66 cents per foot
Design and Engineering	\$2.12 per foot	\$2.42 per foot	\$0.30 cents per foot to depict additional splices at A and Z locations
Project Management	\$1.18 per foot	\$1.18 per foot	0
Splice labor*	\$11.00 per splice	\$11.00 per splice	\$11.00 per splice over 12 splices at any splice site
Splice enclosures**	\$205 per enclosure	\$205 per enclosure	\$205 per enclosure for every enclosure over 12
Fiber Patch Panel	\$71.43 per panel	\$218.60 per panel	\$147.17 per panel
Conduit and other structured materials	1.25” conduit required \$1.95 per foot Handhole (40,000 lb rated) \$2695 per unit Fiber Marker \$30 per unit	1.5” conduit required \$2.35 per foot Handhole (40,000 lb rated) \$2695 per unit Fiber marker \$30 per unit	40 cents per foot No cost difference for handhole No cost difference per marker
Fiber Installation Labor ***	25 cents per foot	28 cents per foot	3 cents per foot
Structured Materials Installation (conduit, markers, handholes)****	\$2.85 per foot	\$3.10 per foot	25 cents per foot
Markers	Place every 500’	Place every	No cost difference
Handholes	Place every 1000’	Place every	No cost difference

Important Note: To the extent that the winning service provider for lit fiber service and/or dark fiber lease requests special construction reimbursements and installs additional strands of fiber for future business ventures, the winning service provider assumes full responsibility to ensure those costs are allocated out of the special construction charges to SUPERNet in accordance with FCC rules and orders. If after issuance of the FCDL, USAC or the FCC determines that the winning service provider did not cost allocate those charges associated with the additional strands, SUPERNet will not be responsible to reimburse the winning vendor and the winning vendor will assume all responsibilities for costs deemed ineligible by USAC.

E-Rate Requirements:

It is anticipated that some or all of the costs associated with this proposal shall be eligible for the E-Rate

discount under the Federal Communications Commission (FCC) Universal Service Provision (FCC 97-157); therefore, the selected Proposer must understand and comply with all FCC rules and regulations relative to E-Rate. The selected Proposer must also have a valid 498 ID (Service Provider Identification Number – SPIN).

E-Rate discounts can be applied to special construction charges in the first year of the contract. If special construction charges are bid, please provide an installment plan for The Consortium's non-discount share for annual payments over four years.

For the purposes of the E-rate Program, special construction charges are the upfront, non-recurring costs of deploying new fiber or upgraded facilities to E-rate eligible entities. Special construction consists of three components: Construction of network facilities; Design and engineering; and Project management.

The district will consider terms of 10 years for the proposals. E-rate rules require comparing the cost of the Leased dark fiber network to Leased Lit fiber network option and awarding the most cost-effective network solution.

The District request the option to pay the District portion over a 4-year multi-year payout.

Required Notice to Proceed and Funding Availability and E-Rate Reimbursement:

The Consortium will follow the purchasing policies of the Consortium Board of Trustees and requirements and procedures of the FCC's E-Rate program as administered by the Universal Service Administrative Company to be eligible for all available funding. The implementation of any associated contracts resulting from this competitive bid process will be dependent on the district's' issuance of a written Notice to Proceed.

Vendors wishing to submit a proposal response must be a Certified Telecommunications Utility (CTU), as defined by the Public Utility Commission of Texas (PUC), and/or have been authorized to provide basic local telecommunications services pursuant to a Certificate of Convenience and Necessity (CCN), a Certificate of Operating Authority (COA), or a Service Provider Certificate of Operating Authority (SPCOA) issued by the PUC. In addition, vendors wishing to submit a proposal response must have been granted Right-of-Way use pursuant to an executed agreement for Joint Use of Utility Poles with any company that the proposal includes use of the Right-of-Way or Joint Use of Utility Poles.

Final authorization by The Consortium for the purchase of any or all goods and/or services, hereafter described in this document, MAY be contingent upon the award of funding (a Funding Commitment Decision Letter) from the Schools and Libraries Division of USAC for the 2018 E-Rate Funding Year.

The Consortium may, at its discretion, choose to cancel its offer for the purchase of any and all goods and/or services requested in this RFP if E-Rate funding is not approved by USAC, there is a reduction in funding, there are changes in the physical structure of a school (i.e., renovations, demolitions), or for any other reason.

The Consortium will request Texas State Matching funds for Category 1 fiber projects with the Classroom Connectivity funds. If State Match funds and/or E-Rate Category 1 funds are not available for the project, The Consortium may, at its discretion, choose to cancel its offer for the purchase of any and all of goods and/or services.

All requests for payment by the selected Proposer must be made by written invoice to The Consortium. Goods and/or services may not be delivered to The Consortium before a written Notice to Proceed. Proposer may not issue written invoices before July 1, 2018. Invoices must show the full amount of the cost of goods and/or services provided to The Consortium for the invoice period. Invoices must also provide the following:

- 1. An itemization of those goods and/or services that are eligible for E-Rate reimbursements, and those that are not eligible for E-Rate reimbursement. (The itemization could include a bill of materials for any eligible special construction costs if the proposer requests special construction reimbursement for new build segments necessary to deliver leased lit service or leased dark fiber.)**

2. An itemization of invoice amounts that are allocated for payment through E-Rate, and those that are to be paid directly by The Consortium.

The Consortium shall pay only the invoice amounts, not otherwise disputed by The Consortium, allocated on the invoice for payment directly by The Consortium. **By submitting a proposal, the selected Proposer understands, acknowledges and agrees that The Consortium will not pay any invoice amounts identified and allocated for payment through E-Rate.**

The selected Proposer shall be responsible to prepare and file with the FCC a Form 474 (SPI Form) to request payment of those invoice amounts allocated for payment through the E-Rate program. The selected Proposer will be paid for the E-rate eligible goods and/or services through the E-Rate program only after a Funding Commitment Decision Letter has been issued through the E-Rate program.

Prices quoted shall be all-inclusive and represent complete installation and operation at the sites listed in the attached specifications. The Vendor shall be responsible for all equipment, software, parts, labor, and all other associated apparatus necessary to completely install, test, and turnover for acceptance of the fiber optic WAN detailed herein.

E-rate funding notification alone will not signify Notice to Proceed.

The district will have the right to allow the contract to expire without implementation if appropriate funding does not come available.

4.2 Organization's Capabilities & Experience

Describe the firm's experience and capabilities in providing similar services. Be specific and identify projects, dates, and results.

4.3 Staff Qualifications & Staffing Plan

Provide brief descriptions describing the educational and work experiences for each of the key staff who would be assigned to the project. Identify those key individuals that will be assigned to this project and their specific roles pertaining to project management, installation, training, help desk & maintenance.

4.4 Proposer's References

Proposers must include in their RFPs a list of organizations, including points of contact (name, address, and telephone number), which can be used as references for work performed in the area of service required. Selected organizations may be contacted to determine the quality of work performed and personnel assigned to the project. The results of the references will be provided to the evaluation team and used in scoring the written proposals. References must include at least one reference of similar size and scope.

4.5 Mandatory Requirements

The following general requirements are mandatory and must be complied with.

Proposer must provide Help Desk service that will include a minimum of coverage from 7:00 a.m. -7:00 p.m., M-F phone support via 800 or local number that includes trouble-shooting, operational guidance, remote monitoring, and dispatch for network and equipment for on-site repair. On-site dispatch within 4 hours will be required for emergency repair. If there is any additional cost for this service, this must be included in the proposal.

5.0 TECHNICAL REQUIREMENTS

5.1 Lit Fiber Network

The objective of this Proposal option is to obtain a proposal for high-speed broadband data and network connectivity for 1) all Consortium members to the Regional Network Service Points of Presence via a Super Ring Network, 2) Super Ring Network that provides access to all member districts and connectivity to the POPs.

The proposer will provide all materials, labor, easements, permits, right of ways, pole attachments, technical support, maintenance and operations of the fiber infrastructure for this service. The proposer will abide by all local, home owner, municipal, county and state easement and right of way ordinances. The proposer is responsible for obtaining the appropriate authorization for the easements, permits, right of ways, pole attachments and maintaining said agreements. The proposer is responsible for survey, inspection and associated make-ready for any components used to deliver the fiber network. The proposer will provide all equipment, technical support, maintenance and operations of both the equipment and fiber infrastructure for this service. It is the responsibility of the proposer for quality assurance, testing, and inspection of the service upon delivery to The Consortium.

The Consortium will require 10 Gb Ethernet connection(s) at each member. This proposal request: 1) Fiber connection(s) lit with 10GBASE Ethernet transceiver(s) at the member site to the Super Ring Network with a protected optical wavelength (DWDM) based to the POP; a MPLS service with 10 GbE Ethernet connections, or a 10 GbE Layer 2/3 Metro Ethernet for each proposed member connection. The Service Points of Presence (POPS) should provide 1 Gb scalable to 10 Gb bandwidth on a 10 Gb connection per each member site (based on the Near and Long-Term Internet Requirements) and the cost to provide a dedicated 10 Gb per member with the ability to add additional 10 Gb connections as required per member.

The solution can describe the ability to provide connectivity to other Regional Service POPs such as ESC 8 and the Atrium.

The proposal should provide detailed technical descriptions of the service. The Consortium will give additional evaluation point for an optical wavelength solution due to the ability for the solution to meet the District's needs in the area of Design Requirements.

The Consortium will evaluate the solutions that meet the District's needs in the most cost-effective solution over a long-term contract evaluation. The proposal for a MPLS or Layer 2/3 solution should provide evidence and explanations of how a Layer 2/3 solution will provide comparable or better services to meet the design requirements over an Ethernet Transceiver or optical solution.

The solution should describe the ability of the solution to provide a point to multipoint service capability to connect to the SUPERNet POP and to additional or alternative regional service locations in the future within the term of the contract.

The fiber network that supports the lit service have a robust design that provides a high level of service availability and lack of down time and maintenance. The underlying fiber network will have diverse, non-collapsed public routes when possible to meet the design requirements and to provide the most cost-effective overall design. It is understood that some District/Member locations will not cost effectively connect in a ring solution and may have collapsed lateral connections to the ring; however, these sites should be identified for evaluation of the network design.

Total cost of ownership is the highest weighted criteria for selection.

The Consortium will consider this service as a foundational infrastructure component of the overall information technology system. The Consortium will consider and evaluate multiple terms and contract vehicles for the solutions. For a Lit fiber service, a 10-year total service contract should be provided. This can be with a five-year initial term with an additional 5-year term options or for 1 10 Year contract term. Both term options should include one (1) voluntary extension.

The proposal will provide for one-time cost including but not limited to, easements, routes, pole attachments, project

management, engineering, capital expenditures, network resource allocation and/or build out. All non-recurring cost should be specified as installation or special construction within the definition of E-Rate rules. The monthly recurring charges should reflect maintenance and operations of the network for the district.

The acceptable lit fiber solution should provide for a one-time cost for an additional 10 Gb services or a one-time cost to increase the 10 Gb services to higher bandwidth.

5.1.1 Lit Fiber Campus Connectivity Technical Specifications

The proposed Leased Lit fiber network solution must provide a network design in which:

1. The proposal will provide 10 Gb Ethernet connection(s) capability at each District to the Service POP.
2. The proposal should provide the ability to upgrade additional bandwidth based on a per site need. The bandwidth increase options can include, but are limited to, the following options.
 - i. Proposal should provide the option for a full 10 Gb WAN bandwidth for each member. (Option 1).
 - ii. Proposal should provide the option to implement a 1 Gb connection at the member site with the target IA bandwidth at the POP with the ability to upgrade from the District's IA Target bandwidth on a 10 GbE connection to a full 10 Gb bandwidth on a 10 GbE connection. (Option 2)
 - iii. Proposal includes the ability to upgrade at a site with an additional 10 GbE connection with scalable or full bandwidth for a one-time cost.
 - iv. Proposal includes the ability to upgrade sites that have IA Target bandwidths over 10 Gb at a site with a 40 GbE or 100 GbE within the term of the contract for a one-time cost.
3. The proposal will include a solution that connects each member to the Super Ring Backbone and to the POP.
4. Based on fiber design and architecture, the member will have connections to both an east Super Ring site (LocA) and a west (LocZ) to increase network resiliency.
- 4 Acceptable lit fiber-based solution will include, but are not limited to, Ethernet Transceivers and optical networking using wavelength-division multiplexing (WDM), Layer 2 Multi-Protocol Label Switching (MPLS) or Layer 2/3 Metro Ethernet.
- 5 Ethernet frames containing a 1500-byte payload (for a total minimum supported Ethernet frame size of 1542 bytes), must be allowed and flow as a single complete frame without any fragmentation by the provider's equipment.
- 6 Protocols and network configurations including but not limited to, QoS, Multicast, Unicast, Layer 3 routing, 802.1q tagged frames, 802.1ad provider bridging, VLAN will be passed through the provider untouched and delivered. These services will follow open standard and industry best practices.
- 7 WAN performance must support jitter and latency sensitive applications and services including but not limited to, Video over IP, VOIP, and multi-Data Center Synchronous Applications. The included service level agreement should include the network latency between points within the network and the disclosure by what method these values will be calculated.
- 8 The network latency target should be less than 2 millisecond (ms) between sites. This is the performance the district could lit the fiber with Ethernet Transceivers or DWDM optical equipment with dark or self-provisioned fiber.
- 9 The proposed network will be capable of transparently transporting all aspects of Ethernet LAN protocols.
- 10 The network interface to the customer's CPE must be a 10 Gb Ethernet with 802.3 10GBASE interface(s). The proposal will clearly define the 10GBASE interface type required for each service connection as 10GBASE-SR, 10GBASE-LR, 10GBASE-ER, 10BASE-ZR or other as specified.
- 11 Performance metrics on contracted circuits must be provided to The Consortium staff within 24 hours (1 day) of request.
- 12 The Consortium must be notified a minimum of one week prior to any network changes or planned network maintenance including QoS changes, network monitoring changes or any other network changes that may have a positive or negative effect on performance as outlined in the RFP and a minimum of 24 hours on network changes due to emergency incidents.

- 13 The provided connection must be tested to prove performance before it will be considered complete and usable. Testing according to ITU-T Y.156sam or RFC-2544 for performance, frame-loss and latency is preferred but detailed performance, frame-loss, latency and QOS test disclosure is also acceptable. Testing must validate the minimum frame size specified is supported.
- 14 Every connection receives AND transmit capacity must each meet or exceed the bandwidth amount that is proposed. Testing must validate that capacity meets the amount purchased before the connection will be considered complete and usable.
- 15 Interface to proposed network will be at the main distribution frame (MDF) in each site, and termination equipment shall be wall mounted in the building designated MDF closet. Demarcation of Vendor's network will be a clear and well-defined physical interface and be located at the site's Main Distribution Facility as identified by the District designated person.
- 16 Equipment needing to be rack mounted will be mountable in The Consortium standard rack facilities; which will be provided to awarded vendor.
- 17 Proposal will include size and environmental requirements of equipment selected for installation at District sites. The proposal shall include the termination requirements for space and power.
- 18 Vendors are encouraged to provide a Lit fiber solution that provides scalability and reliability. The Vendor will describe the network design and typology that supports these technical design evaluation criteria.
- 19 The dedicated bandwidth must not be affected and accessible by other customer network load on the service provider network.

All Super Ring sites will have two (2) building entries available for access to the Facility Main Telecommunication Closet.

The district facilities should have one (1) building entry and route available for access to the facility Main Telecommunication Closet.

Fiber Terminations, Cross Connect and End-to-End Service: The service will be terminated in the facilities Main Communication (MC) closet in the network rack. The service will be terminated on a new fiber panel provided with the project. The proposal should detail the termination requirements including space and power for the service. The proposal will document the interface that will be provided to The Consortium from the service.

It is the responsibility of the service provider to plan for route and access into the campus facilities.

5.2 Leased Dark Fiber Network

5.2.1 Leased Dark Fiber Service Proposal Requirements:

The Consortium request leased Dark fiber solutions for robust fiber connectivity for 1) all members to the District Super Ring Backbone Nodes and 2) Super Ring Backbone nodes and any provider defined hub sites to the Regional Points of Presence (POPs).

The proposer will provide all materials, labor, easements, permits, right of ways, pole attachments, technical support, maintenance and operations of the fiber infrastructure for this service. The proposer will abide by all local, home owner, municipal, county and state easement and right of way ordinances. The proposer is responsible for obtaining the appropriate authorization for the easements, permits, right of ways, pole attachments and maintaining said agreements. The proposer is responsible for survey, inspection and associated make-ready for any components used to deliver the fiber network. The proposer will provide all technical support, maintenance and operations of the fiber infrastructure for this service. It is the responsibility of the proposer for quality assurance, testing, and inspection of the service upon delivery to The Consortium. The Dark fiber network solution will provide a highly available network that meets the design requirements objectives. It is estimated that a sub-ring design fiber network will be that most cost-effective solution to meet the design requirements. The solution will use diverse, non-collapsed routes when possible.

Total cost of ownership is the highest weighted criteria for selection. The Consortium will take into account the added cost to light the Dark fiber solution of a proposed Dark fiber solution verses a Lit optical solution. The Consortium will light the fiber with direct 10GBASE Optical Modules to a Layer 3 Router at each campus to a Layer 3 Router at the POP.

The Consortium requests a Dark fiber solution from each member location to Super Ring Network Node with connections to an East Node Point (LocA) and West Node (LocZ) points on the sub-ring. It is the intent that this ring design would be the most cost effective and meet the design requirements and service objectives most effective. The Dark fiber proposal will be evaluated against the Lit Fiber based on the rules established by the FCC for Lit Verses Dark services. Each member should be allocated a pair of fiber on the subrings to the SUPER Ring Backbone.

SUPERNet sites can be used as Network Hub locations. Space, power and support requirements of the hub location should be specified in the response.

The Proposer shall provide a Dark fiber network solution to meet the District's immediate and long-term connectivity needs as recommended in the FCC E-Rate Modernization Order and documented in Appendix A.

The proposal may be provided as a leased Dark fiber or a IRU agreement for the allocated dark fiber strands of the providers network and the fiber network facilities required for the District. The proposal will include all non-recurring costs (NRC) for installation, provisioning and allocation of existing fiber network and, as defined by E-Rate 2.0 rules, any special construction cost for project management, design and engineering and construction of new network facilities required for the District Dark fiber network solution.

The proposal will provide the cost of the maintenance and operations of the network as part of the agreement, with yearly cost or a term cost for the term for the full term, any additional terms or optional voluntary extensions.

The Proposer shall provide all fiber optic cables, pigtail assemblies, outdoor splice cases and trays, handholes, ducts, locate wire, pull boxes, and any other consumables and installation hardware necessary to construct and terminate the leased Dark fiber network. In addition, the Proposer shall perform all fusion splicing, indoor fiber terminations, cable testing, and test documentation. The Proposer shall provide interior pull boxes and EMT conduits to the MDF, if none are available, at each campus.

The proposer shall provide comprehensive specifications for their proposed solution and special construction cost detailed as defined below

1. Route assessment, maps, ROW access and/or easement requirements.

Whether fiber will be buried, strung through conduit (existing or newly installed), and/or strung aerially on poles (existing or newly installed), and any associated terms and costs (e.g., pole attachment agreements imposing make-ready costs, trenching and/or boring costs).

5.2.2 Leased Dark Fiber Technical Requirements:

The proposed Leased Dark fiber network solution must provide a network design in which:

1. The fiber termination in the site MDF will be in fiber distribution panels. The fiber should be industry standard OSP Single Mode Fiber (SMF). All fiber segments installed on the member property from the network splice point to the site MDF should the standard on-premise OSP SMF fiber strand count for the provider or a minimum of 12 strands of SMF. The termination type should be the provider’s standard type termination but LC connectors are preferred by the district.
2. The collapsed segments laterals from the provider’s network to the campus MDF should be identified by length per campus and on the overall fiber map.
3. The proposal should include the campus/site entries.
4. Each member should have a pair of fiber allocated to the member on the subring or connection.
5. The solution should allow for additional fiber availability within the terms of the contract for The Consortium use. Fiber pair should be available upon request on a per campus basis based on need and with the intent to light the fiber upon availability to the District for the site/campus. Any additional fiber pair would follow the same route as the original pair provided.
6. The fiber design and overall solution will support 10GbE optical module connections at all remote locations with the ability to support multiple 10 GbE or 40 GbE without additional construction requirements. The estimated distance between each campus and the LocA on the Ring and the Locz on the Ring should be provided in the proposal.
7. Estimated Cable Performance of the Proposed Solution. The Consortium will evaluate the goods and services based on the estimated Link Power Budget of the proposed cable network. The Vendor will provide the estimated Operating Distances of each link. The Vendor will provide an Estimated Link Performance at 1310 nm and 1550 nm based on Splice Losses and two (2) termination connections with the minimum information and in a similar format listed in the table below.

				1310nm	1550nm	
Originating	Destination	No	Cum.	Cum.	Cum.	
Campus	Frame	Fiber	Length	dB Loss	dB Loss	Structure
ES	FR-00287	45-46	9,879	4.99	2.58	HUB #1 -5150
ES	FR-00211	61-62	19,087	3.81	3.69	HUB#2 - 5250

8. The network design should provide connectivity from each member to the Super Ring and to the POPs. If alternative sites are recommended, the District will consider based on available space, quality of power and building integrity.
9. The proposal will feature a network typology that utilizes the providers network and infrastructure and the required special construction in the most efficient and effective solution that meets the design requirements, cost, long term maintenance and operations.

10. Additions and Deletion of Sites on the Fiber Network. The proposal will provide a solution to add and delete sites from the network upon notice at any time during the contract term at the District's sole discretion. Pricing for the addition or deletion of sites shall be consistent with the pricing established in the awarded contract(s).
11. This proposal is comprehensive and the service must be provided to all locations for an acceptable proposal. Leased Dark fiber will be the allocation of two strands of SMF from a vendor's fiber network to connect the campuses to the designated service locations. All fiber pairs will be lit and utilized fully to provide bandwidth and access to services.
12. The service provider will provide the conduit and routing from the public right of way onto The Consortium facility. The cable will terminate at the Consortium MDF closets (Some exceptions may exist). The service will be terminated in the facilities MDF closet in the network rack. The service will terminate on a new, provider provided and installed rack mounted fiber distribution panel. The proposal should detail the termination requirements including space and power for the service. The proposal will document the Dark fiber or the Ethernet media type that will be provided to The Consortium from the service.
13. The provided connection must be tested to prove performance before it will be considered complete and usable.
14. Proposers should provide information on the age, type, and performance of the fiber they are proposing to lease, including a description of all applicable splice loss budgets compared to actual OTDR test results of each fiber strand in both directions.
15. Termination equipment needing to be rack mounted will be mountable in The Consortium standard racks. The proposal should include the size, power and environmental requirements of equipment.
16. The Proposer should generate a GIS map(s) with the fiber optic cable identified.

5.2.3 Leased Dark Fiber Maintenance Requirements:

It is assumed that the proposed network solution is part of a more comprehensive fiber infrastructure of the service provider. The Proposer will include only the portion of maintenance that is required to support the Consortium fiber segments verses overall network maintenance. If the fiber serves multiple customers, the cost of maintenance should be shared among all the recipients. Twenty-Four by Seven (24/7): Vendor shall maintain the applicable fiber seven days per week, twenty-four hours per day, at no additional cost to The District. Maintenance services will be provided either by Proposer or by affiliates or contractors. Response Time: Upon notification from The District of a malfunction relating to the applicable fiber, Proposer shall respond to such malfunction within two (2) hours and thereafter proceed to correct the malfunction with reasonable diligence. Malfunction Defined: As used herein, a "malfunction" shall mean the failure of the fiber network or any portion thereof to meet the specifications agreed upon in contract. Other maintenance cost must be identified and categorized as E-Rate eligible or ineligible.

When planned network maintenance activities are conducted by the Proposer which entails the risk of interrupting or diminishing service to The Consortium or its participants, The Consortium Technology Services must be notified at least five (5) business days in advance of the maintenance planned. Additionally, the Proposer must agree to work with The Consortium to find an alternate date and time of maintenance, if the proposed time would be particularly detrimental to The Consortium business needs. An acceptable planned maintenance period would be from 10:00 p.m. to 6:00 a.m.

The Proposer will provide routine maintenance and inspection of the fiber infrastructure, proactive monitoring of fiber operation, repair of fiber breaks, and replacement of damaged fiber or fiber that no

longer meets specifications, locate services, registration of the fiber with 811 service, and other support necessary to ensure operation of the network.

Operations and Maintenance Practices: The Consortium will require on-going maintenance and operations of the fiber for the term of the lease. When pricing maintenance and operations, the respondent should include an overview of fiber maintenance practices including:

- Call before you dig locate services;
- Routine maintenance and inspection
- Scheduled maintenance windows and scheduling practices for planned outages
- Fiber monitoring including information on what fiber management software is used, what fiber monitoring system is used, and who performs the monitoring
- Handling of unscheduled outages and customer problem reports? What service level agreement is included, and what alternative service levels may be available at additional cost?
- What agreements are in place with applicable utilities and utility contractors for emergency restoration?
- Repair of fiber breaks
- Replacement of damaged fiber
- Replacement of fiber which no longer meets specifications
- Policies for customer notification regarding maintenance

The Proposer must operate its own Network Operations Center(s) and provide a centralized trouble reporting and maintenance system that is staffed 24 hours a day, seven days a week. The Proposer shall provide sufficient staff for peak and critical hours. The Proposer shall provide The Consortium with a local and toll-free number or equivalent dedicated connection for trouble reporting.

The Proposer must respond to trouble reports within two (2) hour of notification. The Proposer must also provide an escalation procedure and contact list to be used for unresolved issues, including names, titles and phone numbers of contact persons in the escalation chain. Major service-affecting problems that are not resolved within four (4) hours of time after the notification of trouble shall constitute a prolonged outage and must be escalated.

SERVICE LEVEL AGREEMENT

This Leased Dark fiber network must support production applications that require a high degree of reliability and must operate with little or no service disruptions for twenty-four (24) hours a day, seven (7) days a week. Proposer(s) must have the necessary staff for the installation, operation, and maintenance of their network. The Proposer will conform to these service level agreements, and include details concerning restoration procedures and goals and escalation procedures.

Service Level Agreement

Vendor will provide a description of the proposed services and the Service Levels for the proposed services during the term of the contract. The vendor will provide a proposed Service Level Agreement (SLA) with the RFP response. The proposal should include, but not be limited to, the following services.

Network Availability: the provider will make all reasonable efforts to ensure 99.9% network availability of the applicable fiber.

Network Operations Center: Solution will provide customer support functions including problem tracking, resolution and escalation support management on a 24x7x365 basis. The Consortium has the

right and is encouraged to call concerning any problems that may arise relative to its connection with Vendor provided services.

Trouble Reporting and Response: Upon interruption, degradation or loss of service, The Consortium may contact Proposer by defined method with a response based on trouble level. Upon contact from the Consortium, the Proposer support team will initiate an immediate response to resolve any The Consortium issue. The Consortium will receive rapid feedback on trouble resolution, including potential resolution time.

Escalation: In the event that service has not been restored in a timely manner, or the Consortium does not feel that adequate attention has been allocated, the Consortium can escalate the trouble resolution by request. A list of escalation contacts will be provided when implementation schedule is completed.

Resolution: The Consortium will be notified immediately once the problem is resolved and will be asked for verbal closure of the incident.

Trouble Reporting, Escalation and Resolution: A detail trouble reporting, escalation and resolution plan will be provided to the district.

Measurement: Proposer stated commitment is to respond to any outage within two (2) hours and a four (4) hour restoration of service. Time starts from the time the Customer contacts Vendor and identifies the problem. Credits for Outages of shortage will be identified.

Reports: Upon request, an incident report will be made available to the Consortium within five (5) working days of resolution of the trouble.

Link Performance: The service will maintain the proposed Link Performance throughout the term of the contract.

5.2 Implementation Requirements

The Proposer should submit with their proposal response, and must provide prior to award, an implementation plan for the deployment of the services, that reflect the services to be included in the associated contract. The plan must clearly represent the constraints of time, scope and cost. At a minimum the implementation plan must include the project approach, scope of work, work breakdown structure (WBS), Schedule, milestones, deliverables, risk assessment, mitigation strategies, resource planning and communication plans.

The Proposer will adhere to the implementation plan for deployment of services submitted as a requirement of this RFP.

DEPLOYMENT STATUS REPORTS

The Proposer's designated project manager will provide weekly progress reports of the status of any deployment schedule to The Consortium's designated project manager. The weekly progress report must include identification of any issues affecting the deployment schedule, and include recommended resolution(s) to any identified barriers to network deployment.

During the project installation period, the Proposer's designated project manager shall host weekly conference calls with appropriate technical and project management personnel and The Consortium's designated WAN deployment team.

5.3 Network Equipment to Light Dark Fiber and associated Management cost.

The Consortium request proposal for solutions to light the dark fiber. The proposed network electronics and/or modulating equipment solution should include the District equipment and all Super Ring Site equipment. The proposal should include equipment, installation, provisioning and management of the equipment.

5.3.1 Provide a solution that meets the network requirements of the Lit Fiber solution. The solution should provide a Layer 3 Access Router with 2 x 10 Gb WAN connections with the associated 10 GBASE SFP Ethernet Transceivers (ER or LR) and 8 x 10 GB LAN Fiber connections with 10 GBASE SFP SR transceivers for each member. The option should also support 1 Gb WAN connections. Provide a that provides connectivity between the Super Ring sites and provide a 1 Gb upgradeable to 10 Gb Ethernet Connection at the POP at the Tyler Vault site. Include all optical transceivers. Provide a core Layer 3 Router with 10 Gb connections per member for the member connections and a minimum of 2 x 10 Gb service provider connections.

SUPERNet members currently have a Juniper MX102 Router with the following specifications that can be used in phase 1 and the respondent provide the modules to upgrade to 10 Gb for campus connections. The router would require an additional 2 x 10 Gb upon implementation.

The SUPERNet MX-104 interface modules;

Built in - 4 X 10 Gig Ethernet - 2 used and license for 2

MIC -20 X 1 Gig Ethernet SFP - ports can be copper or fiber depending on SPF module, no ports on this module are used.

MIC - 40 X 1 Gig Ethernet - copper only, 18 ports in use.

All solutions should provide design, installation, configuration and ongoing managed service cost.

The manufacturer and specific solution should be a standard implementation from the respondent.

The solution should be scalable, reliable and sustainable.

The solution should be installed and operational in at least three (3) and preferably more comparable sites from the respondent.

The proposal should include yearly cost and a five-year cost for maintenance, operations and management.

5.4 Required Services

PROJECT PLANNING AND MANAGEMENT

The Consortium acknowledges that project management and implementation procedures will require alignment and adjustment of work processes for the Proposer's organizations and The Consortium. The alignment will be part of the contract finalization. However, the Proposer will respond to this RFP assuming the following responsibilities.

The Consortium MANAGEMENT STAFF

The Consortium management staff will:

1. Provide overall project direction and management.
2. Review and approve all project plans and deliverables.
3. Ensure that technical assistance and support are provided during the Proposer's implementation phases and ongoing upgrade design of this project.
4. Establish project management guidelines by meeting with the Proposer's project management team as needed.
5. Review and approve all project specific documentation standards and requirements for the various types of reports, technical/procedural documentation, and management materials that will be produced during the project.
6. Coordinate other resources as needed to support the implementation process.
7. Provide on-site assistance, as needed during the implementation phases of the project.
8. Assist the Proposer in identifying eligible participants in the network as well as establishing guidelines with the Proposer for ordering, moving, adding or changing services.

PROPOSER TECHNICAL STAFF

Proposer technical staff will:

1. Coordinate and administer the requirements of the network service(s) that are proposed.
2. Provide upon request, technical information, graphs, charts, maps, photographs, block diagrams, operating manuals, passing test results, and other information that will clearly show that the services offered are in full compliance with the minimum requirements of this RFP. In the event that the documentation furnished is at variance with the requirements of this RFP, the Proposer will explain in detail, with full engineering support data, the reasons why the proposed services meet the RFP requirements and should not be considered an exception.
3. Provide upon request, detailed network diagrams and drawings that clearly illustrate the network configuration and the functional relationships, as they are associated with the proposed services. These network diagrams will be available to The Consortium electronically in a format agreed upon by the Proposer and The Consortium to allow for import into various computer programs.
4. Provide upon request, basic technical specifications for each item of equipment included in the proposal. The information to be provided will be in the form of published specification sheets or other illustrative literature.

If the Proposer intends to Subcontract any part of its performance hereunder, the Proposer must provide:

- a. name, address, and telephone number of the Subcontractor(s)
- b. specific tasks for each Subcontractor(s)
- c. percentage of performance hours intended for each Subcontract; and
- d. total percentage of Subcontractor(s) performance hours.

5.5 Technology Submittals

- Proposer must submit KMZ drawings detailing circuit routes and include the engineering schedule/calendar of events/plan to implement the service
- Proposer must submit an itemized list of any and all equipment showing manufacturer and model number with required quantities.
- Proposer must submit their detailed system check out and testing procedure.
- Proposer must include system service information with detail regarding standard service plan, response to emergency calls, phone support, preventative maintenance, warranty on labor work performed. Continuous warranty service must be included, with the inclusion of on-site labor, phone support, and emergency on-site response within 4 hours.

6.0 COST PROPOSAL

6.1 General Instructions on Submitting Cost Proposals

A cost proposal detailing terms for a service contract with the option for voluntary extensions should be submitted as part of the written proposal. This service will be paid by the district on a monthly basis. The district is seeking E-rate funding to discount the cost of this service to the SUPERNet Consortium.

Pricing to be recorded on Attachment G.

6.2 Fixed Price Period

All prices, costs, and conditions outlined in the proposal shall remain fixed for the contract period to begin July 1, 2018. The option to extend service and decrease cost as service is increased should be included in this proposal. The option to decrease service as needed should also be included.

6.3 **Lit Fiber Proposal Cost**

Proposals will address the impact of normal growth, as well as planned and unplanned network expansion or service enhancement. All prices shall be proposed as an individual location/school cost on a recurring or non-recurring basis. **All Proposer costs must be reflected in either the monthly recurring or non-recurring charges. All fees, taxes and pass-through charges such as USF must also be included in the cost. Estimated fees are acceptable but no fees may be omitted from the proposal. No additional charges will be accepted.**

The quantities provided are for the sole purpose of assisting the Proposers in preparation of their proposals and for The Consortium to consider the feasibility of the proposed network solutions. The Consortium shall not be responsible for any cost that is not identified in the Proposer's cost proposal. The Consortium will not consider proposals that offer discounts based upon the number of network locations that join the network.

Any costs which are not eligible for E-rate discounts must be identified.

The proposal prices listed must include the cost of doing business as indicated below. Simply placing a cost number in the appropriate cell is all that is needed.

6.3.1 Circuit Cost

Circuit costs will be bundled costs and must include all necessary components needed to utilize the circuit at the bandwidth proposal. Network equipment and hardware (non-CPE) will be part of and included in the itemized circuit costs.

The Proposer will include costs for software, warranty, and maintenance of the provided circuits in the service rates. Software includes any initial or upgraded software required by each item of equipment proposed for the network to perform as a fully functional, integrated part of the Proposer's network and associated service rates. The software costs shall include all of the following applicable costs:

- i. Initial purchase and installation costs.
- ii. Use and licensing fees.
- iii. Software maintenance costs, including upgrades.
- iv. All other costs relative to the network such as acquiring and using the software for the life of the network.
- v. Costs and procedures related to the transfer of the software from damaged or out of service equipment to new equipment and the reprogramming of the software to place equipment spares into service and to meet changing network needs.

6.3.2 Installation Charges

Non-recurring installation charges including but limited to, installation/set-up, provisioning, network configuration cost shall be delineated in the cost portion of the proposal.

All fees that would be incurred for a fully functioning end-to-end connection, whether recurring or non-recurring, must be included in the cost. All cross-connect, and facilities related charges that would be incurred to physically connect the circuit to The Consortium equipment on both ends must be included in the cost.

6.3.3 Special Construction Charges

E-Rate discounts can be applied to special construction charges in the first year of the contract. If special construction charges are bid, please provide an installment plan for The Consortium's non-discount share for annual payments over four years.

For the purposes of the E-Rate Program, special construction charges are the upfront, non-recurring costs of deploying new fiber or upgraded facilities to E-rate eligible entities. Special construction consists of three components: Construction of network facilities; Design and engineering; and Project management.

6.3.4 Quantity

The Consortium has the option of adding additional services to a site as needed. The Consortium reserves the right to purchase any quantity of service above the base proposal. The Consortium reserves the right to add sites, remove sites, move connections, increase or decrease bandwidth during the life of the contract. Proposer should include costs for implementing site changes during the contract term.

6.3.5 Proposal Cost Tabulation

The proposal cost will be tabulated with an intent to award made based on the monthly recurring costs multiplied by the applicable length of service in months, not to include extensions, plus the one-time non-recurring costs including installation plus the special construction cost. The proposal will be tabulated with the impact of available funding, including E-Rate and State Match, for the total cost to the District.

6.4 Leased Dark Fiber Proposal Cost Requirements:

6.4.1 Dark Fiber Lease or Irrevocable Right of Usage (IRU) Cost

Costs shall be all-inclusive, meaning all non-recurring costs (NRC) required by the Proposer to commence service are separately listed, clearly indicating any NRCs associated with installation, special construction, and all monthly recurring costs (MRC) for the corresponding segments shall be included in the pricing sheets. No increased pricing will be allowed during the term of the contract, or extensions. All prices shall be proposed as an individual location/school cost on a recurring or non-recurring basis.

All Proposer costs must be reflected in either the monthly recurring or non-recurring charges. All fees, taxes and pass-through charges such as USF must also be included in the cost. Estimated fees are acceptable but no fees may be omitted from the proposal. No additional charges will be accepted. The Consortium shall not be responsible for any cost that is not identified in the Proposer's cost proposal.

Any costs which are not eligible for E-rate discounts must be identified.

6.4.2 Installation Cost

Non-recurring installation charges including but limited to, installation/set-up, provisioning, splicing of existing fiber, fiber allocation cost (lease) shall be delineated in the cost portion of the proposal. All fees that would be incurred for a fully functioning end-to-end connection, whether recurring or non-recurring, must be included in the cost. All cross-connect, and facilities related charges that would be incurred to physically connect the fiber to The Consortium termination location should be included.

6.4.3 Special Construction Cost

E-Rate discounts can be applied to special construction charges in the first year of the contract. If special construction charges are bid, please provide an installment plan for The Consortium non-discount share for annual payments over four (4) years.

For the purposes of the E-Rate Program, special construction charges are the upfront, non-recurring costs of deploying new fiber or upgraded facilities to E-rate eligible entities. Special construction consists of three components: Construction of network facilities; Design and engineering; and Project management.

6.4.4 Maintenance and Operation Cost

The Maintenance and Operational (M&O) of the fiber network is the responsibility of the provider. The proposal should include an agreement that includes the M&O of the District's allocated fiber of the overall provider's network and the District's special construction fiber. It is assumed that the fiber network is part of a more comprehensive fiber infrastructure of the service provider. The vendor will include only the portion of maintenance that is required to support the Consortium fiber segments versus overall network maintenance. If the fiber serves multiple customers, the cost of maintenance should be shared among all the recipients.

6.4.5 Quantity Cost

The Consortium request the option within the life of the contract to request additional pairs of fiber on a per campus basis based on need with the intent to light the fiber upon availability. The proposal should include the additional cost to lease additional fiber pairs for a site and the total fiber pairs (sites) per sub ring that can be allocated additional pairs.

6.4.6 Proposal Cost Tabulation

The proposal cost will be tabulated based on all non-recurring cost (NRC) including but not limited to installation, provisioning, special construction, lease cost, plus the sum of the monthly recurring cost if any and the maintenance agreement cost for the term of the contract and for the 10-year evaluation.

6.4.7 PROPOSAL COST AND ASSOCIATED BILLING

The Proposer must comply with all applicable E-Rate requirements for cost and associated billing.

6.5 Equipment to Light Dark Fiber

6.5.1 Equipment Cost

Vendors providing a “Dark Fiber” Solution are encouraged, but not required to provide all necessary equipment, software, annual license fees, annual maintenance fee required to light the “Dark Fiber” during the initial term of contract (10 Years). Minimum requirement for the equipment is to provide a minimum of 10 Gbps of Broadband Connectivity from Network Operations Center to each district in The Consortium. Vendor Equipment Design and pricing should be based upon Vendors response. If Vendor is responding to multiple solutions, Vendor should provide a network equipment pricing table for each solution. Vendor pricing must be submitted in the format listed below.

Category 1 Network Equipment Pricing Format

Manufacturer Part	Part Number	Quantity	Unit Price	Extended Price
			Total	

6.5.2 Installation, Maintenance and Support Cost

The Consortium also requests vendor provide a quote(s) for the services for implementation and maintenance of the network equipment.

This MRC should include provision of:

- Delivery, Installation, and Provisioning of Category 1 Network equipment (necessary to place the circuits into service)
- Yearly and 5 Year Maintenance Agreement on Equipment

6.5.3 Managed Service Cost

The Consortium also requests vendor provide a quote(s) to oversee the technical support of the WAN once the dark fiber is placed into service. The Consortium requests a one year and 5-year agreement proposal.

The proposals should include provision of:

- Delivery, Installation, and Provisioning of Category 1 Network equipment (necessary to place the circuits into service)
- Network monitoring on a 24x7x365 basis
- Tier 1 through tier 3 NOC services taking incoming calls regarding service degradation and/or service outage
- Creation and communication of service tickets to The Consortium escalation list
- Preventive maintenance activities
- Incident response with timing standards that are in accordance to a respondent provided service level agreement that meets general industry standards
- Other industry standard provisions of broadband service technical support

7.1 SPECIAL CONTRACT TERMS AND CONDITIONS

- 7.2 Performance Bond (not required)
- 7.3 Felony Conviction Notification

8.0 REQUIRED FORMS

The following forms must be completed and submitted with the proposal in accordance with the instructions given in Section 2.0. Forms are attached for A, B, C, D, E, F, and G.

Attachment A	Signature Affidavit
Attachment B	Vendor Data Sheet
Attachment C	Reference Data Sheet
Attachment D	Designation of Confidential and Proprietary Information
Attachment E	Felony Conviction Notification
Attachment F	Conflict of Interest
Attachment G	Proposal Pricing Sheet

ATTACHMENT A

Request for Proposal

For

SUPERNet Consortium

SIGNATURE AFFIDAVIT

In signing this proposal, we also certify that we have not, either directly or indirectly, entered into any agreement or participated in any collusion or otherwise taken any action in restraint of free competition; that no attempt has been made to induce any other person or firm to submit or not to submit a proposal; that this proposal has been independently arrived at without collusion with any other proposer competitor or potential competitor; that this proposal has not been knowingly disclosed prior to the opening of proposals to any other proposer or competitor; that the above statement is accurate under penalty of perjury.

The undersigned, submitting this proposal, hereby agrees with all the terms, conditions, and specifications required by the District in this Request for Proposal, and declare that the attached proposal and pricing are in conformity therewith.

The total monthly fee for the services provided by this RFP will be:
Dollars and Cents

Name (Type or Print) Title

Signature Firm

Address: (Street, City , State, Zip Code)

Telephone Fax E-Mail

Date

ATTACHMENT B

Vendor Data Sheet

1. Proposing Company Name _____

Telephone _____

Address, City, State, Zip _____

2. Contact Person Name _____ Title: _____

Telephone _____

Address, City, State, Zip _____

3. Mailing address where purchase orders / contracts are to be mailed:

Contact Person Name _____ Title: _____

Telephone _____

Address, City, State, Zip _____

ATTACHMENT C

Reference Data Sheet

FOR VENDOR:

Provide company name, address, contact person, telephone number, and appropriate information on the product(s) and/or service(s) used for three (3) or more installations/services with requirements similar to those included in this solicitation document. If vendor is proposing any arrangement involving a third party, the named references should also be involved in a similar arrangement

1. Company Name _____

Telephone _____

Address, City, State, Zip _____

Contact Person Name _____ Title: _____

Products and Services _____

2. Company Name _____

Telephone _____

Address, City, State, Zip _____

Contact Person Name _____ Title: _____

Products and Services _____

3. Company Name _____

Telephone _____

Address, City, State, Zip _____

Contact Person Name _____ Title: _____

Products and Services _____

ATTACHMENT D: DESIGNATION OF CONFIDENTIAL AND PROPRIETARY INFORM

The attached material submitted in response to this Proposal includes proprietary and confidential information which qualifies as a trade secret, as provided by State Statutes, or is otherwise material that can be kept confidential under the State Open Records law. As such, we ask that certain pages, as indicated below, of this proposal response be treated as confidential material and not be released without our written approval. Attach additional sheets if needed.

Section	Page Number	Topic

Prices always become public information when proposals are opened, and therefore cannot be designated as confidential.

Other information cannot be kept confidential unless it is a trade secret. "Trade secret" typically means information, including a formula, pattern, compilation, program, device, method technique or process to which all of the following apply:

1. The information derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by other persons who can obtain economic value from its disclosure or use.
2. The information is the subject of efforts to maintain its secrecy that are reasonable under the circumstances.

In the event the Designation of Confidentiality of this information is challenged, the undersigned hereby agrees to provide legal counsel or other necessary assistance to defend the Designation of Confidentiality.

Failure to include this form in the proposal response may mean that all information provided as part of the proposal response will be open to examination or copying. The District considers other markings of confidential in the proposal document to be insufficient. The undersigned agree to hold the District harmless for any damages arising out of the release of any material unless they are specifically identified above.

Signature-Authorized Representative

Company Name

Print Name-Authorized Representative

Date

Felony Conviction Notification

ATTACHMENT E

Section 44.034, Texas Education Code, Notification of Criminal History, Subsection (a), states "a person or business entity that enters into a contract with a school district must give advance notice to the district if the person or an owner or operator of the business entity has been convicted of a felony. The notice must include a general description of the conduct resulting in the conviction of a felony." Subsection (b) states "a school district may terminate a contract with a person or business entity if the district determines that the person or business entity failed to give notice as required by Subsection (a) or misrepresented the conduct resulting in the conviction. The district must compensate the person or business entity for services performed before the termination of the contract."

This Notice Is Not Required of a Publicly-Held Corporation

I, the undersigned agent for the firm named below, certify that the information concerning notification of felony convictions has been reviewed by me and the following information furnished is true to the best of my knowledge.

Vendor's Name: _____

Authorized Company Official's Name (printed):

A. My firm is a publicly-held corporation, therefore, this reporting requirement is not applicable.

Signature of Company Official:

B. My firm is not owned nor operated by anyone who has been convicted of a felony.

Signature of Company Official:

C. My firm is owned or operated by the following individual(s) who has/have been convicted of a felony:

Name of Felon(s): _____
Details of Conviction(s) _____

____ Signature of Company Official:

ATTACHMENT F

Conflict of Interest (CIQ Form – must be filled out and attached to response)

The Consortium is required to comply with Texas Local Government Code Chapter 176, Disclosure of Certain Relationships with Local Government Officers. House Bill 23 significantly changed Chapter 176 as well as the required disclosures and the corresponding forms. As of September 1, 2015, any vendor who does business with The Consortium or who seeks to do business with The Consortium must fill out the new Conflict of Interest Questionnaire (CIQ) whether or not a conflict of interest exists. A conflict of interest exists in the following situations:

- (a) If the vendor has an employment or other business relationship with a local government officer of The Consortium or a family member of the officer that results in the officer or family member receiving taxable income, other than investing income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that
 - (i) a contract between the local government entity and vendor had been executed; or
 - (ii) the local government entity is considering entering into a contract with the vendor;
- (b) If the vendor has given a local government officer of The Consortium, or a family member of the officer one or more gifts that have an aggregate value of \$100 in the 12-month period preceding the date the officer becomes aware that:
 - (i) A contract between the local government entity and vendor had been executed; or
 - (ii) The local government entity is considering entering into a contract with the vendor.

<https://www.ethics.state.tx.us/forms/CIQ.pdf>

PROPOSAL PRICING SHEET

Lit Fiber Proposals:

Lit Fiber Cost Proposals for Campus to Hub Sites

LIT FIBER CAMPUSES TO HUB SITE COST SUMMARY

NON-RECURRING CHARGES	COST - NRC	DESCRIPTION OF COST
E-rate Eligible Non-Recurring Charges:		
E-rate Ineligible Non-Recurring Charges:		
Total Non-Recurring Charges:		

SPECIAL CONSTRUCTION (SC) CHARGES	SP COST – One Time	DESCRIPTION OF COST
Total Special Construction Charges:		

MONTHLY RECURRING CHARGES	MRC COST - Monthly	DESCRIPTION OF COST
E-Rate Eligible Recurring Charges:		
E-Rate Ineligible Recurring Charges:		
Total Monthly Recurring Charges:		

OTHER CHARGES	COST	DESCRIPTION OF COST
Other Charges: (Bond, etc.)		
Total Charges Year 1:		
Total Charges Years 5:		
Total Charges Years 10:		
Total Charges Years 15:		

TOTAL	COST	DESCRIPTION OF COST
Total Non-Recurring Charges:		
Total Special Construction Charges:		
Total Monthly Recurring Charges:		
Total Charges Year 1:		
Total Charges Yearly Cost (2-15):		

Proposal Line Item Detail for each Hub Site to DC and NOC

#	SN	District	NRC COST	SC COST	MRC	OTHER COST	TOTAL	HUB SITE
1	SN	Arp						
3	SN	BigSandy						
5	SN	Carlisle						
6	SN	ChapelHill						
7	SN	Hallsville						
8	SN	Hawkins						
9	SN	Henderson						
11	SN	Jacksonville						
12	SN	Lindale						
16	SN	NewSummerfield						
19	SN	Tatum						
21	SN	Tyler						
22	SN	UnionGrove						
24	SN	Whitehouse						
25	SN	WhiteOak						
26	SN	Winnsboro						
27	SN	Winona						

Dark Fiber Lease Proposals:

Dark Fiber Lease or IRU Cost Proposals for Campus to Hub Sites

NON-RECURRING CHARGES - Installation, Provisioning, lease charges IRU	COST - NRC	DESCRIPTION OF COST
E-Rate Eligible Non-Recurring Charges:		
E-Rate Ineligible Non-Recurring Charges:		
Total Non-Recurring Charges:		
SPECIAL CONSTRUCTION CHARGES	COST – One Time	DESCRIPTION OF COST
Total Special Construction Charges:		
MONTHLY RECURRING CHARGES - M&O	COST - Monthly	DESCRIPTION OF COST
E-Rate Eligible Recurring Charges:		
E-Rate Ineligible Recurring Charges:		
Total Monthly Recurring Charges:		
OTHER CHARGES	COST	DESCRIPTION OF COST
Other Charges: (Bond, etc.)		
E-Rate Eligible Recurring Charges:		
E-Rate Ineligible Recurring Charges:		
Total Charges Year 1:		
Total Charges Years 5:		
Total Charges Years 10:		
Total Charges Years 15:		
TOTAL	COST	DESCRIPTION OF COST
Total Non-Recurring Charges:		
Total Special Construction Charges:		
Total Monthly Recurring Charges:		
Total Charges Year 1:		
Total Charges Yearly Cost (2-15):		

ATTACHMENT H

BID PARTICIPANT SITES

LN	SN	District	Address	City	State	Zip
1	SN1	Arp ISD	101 Toney Drive	Arp	TX	75750-0070
2	SN1	Big Sandy ISD	401 Wildcat Drive	Big Sandy	TX	75755-0598
3	SN1	Carlisle ISD	8960 FM 13	Henderson	TX	75654
4	SN1	Chapel Hill ISD	13172 Hwy 64 East	Tyler	TX	75707-9752
5	SN1	Hallsville ISD	210 Green Street	Hallsville	TX	75650-0810
6	SN1	Hawkins ISD	179 Hawk Drive	Hawkins	TX	75765-1430
7	SN1	Henderson ISD	200 N High Street	Henderson	TX	75652-3103
8	SN1	Jacksonville ISD	953 N Jackson	Jacksonville	TX	75766-2930
9	SN1	Lindale ISD	505 Pierce Street	Lindale	TX	75771-3336
10	SN1	New Summerfield ISD	13307 Hwy 110 S	New Summerfield	TX	75780-0006
11	SN1	Tatum ISD	255 E Sterling Drive	Tatum	TX	75691-9621
12	SN1	Tyler ISD	1319 Earl Campbell	Tyler	TX	75701
13	SN1	Union Grove ISD	11377 Union Grove Road	Gladewater	TX	75647-1447
14	SN1	White Oak ISD	200 S White Oak Road	White Oak	TX	75693-1597
15	SN1	Whitehouse ISD	106 W Wildcat Drive	Whitehouse	TX	75791-3130
16	SN1	Winnsboro ISD	207 E Pine Street	Winnsboro	TX	75494-2628
17	SN1	Winona ISD	611 Wildcat Drive	Winona	TX	75792-0218

ATTACHMENT I

Sample of 2017 Erate Category 1 Services filed.

District	471 Number	Vendor	Speed	Unit	Expire	Disc
ARP INDEPENDENT SCHOOL DIST	171002233	Cebridge Telecom TX, LP	200	Mbps	06/30/2019	80
BIG SANDY INDEP SCHOOL DIST	171040224	Cebridge Telecom TX, LP	200	Mbps	06/30/2020	80
BIG SANDY ISD	171002724	Eastex Telephone Cooperative Inc.	50	Mbps	06/30/2018	80
BIG SANDY ISD	171002724	Education Service Center, Region Vi	250	Mbps	06/30/2020	80
CARLISLE INDEP SCHOOL DISTRICT	171043092	Cebridge Telecom TX, LP	50	Mbps	06/30/2018	90
CHAPEL HILL INDEP SCHOOL DIST	171013804	AT&T Corp.	200	Mbps	06/30/2020	80
CHAPEL HILL INDEP SCHOOL DIST	171013804	Peoples Communication, Inc.	150	Mbps	06/30/2018	80
CHAPEL HILL INDEP SCHOOL DIST	171018695	Southwestern Bell Telephone	10	Gbps	06/30/2022	80
CHAPEL HILL INDEP SCHOOL DIST	171018695	Southwestern Bell Telephone	10	Gbps	06/30/2022	80
HALLSVILLE INDEP SCHOOL DIST	171004499	Longview Cable Television Inc.	200	Mbps	06/30/2018	70
HAWKINS INDEP SCHOOL DISTRICT	171021020	Cebridge Telecom TX, LP	1	Gbps	06/30/2020	80
HENDERSON INDEP SCHOOL DISTRICT	171000525	Cebridge Telecom TX, LP	500	Mbps	06/30/2019	80
JACKSONVILLE INDEP SCHOOL DIST	171027583	Cebridge Telecom TX, LP	500	Mbps	06/30/2019	90
LINDALE INDEP SCHOOL DISTRICT	171009210	Cebridge Telecom TX, LP	1	Gbps	06/30/2020	70
LINDALE INDEP SCHOOL DISTRICT	171009210	Cebridge Telecom TX, LP	10	Gbps	06/30/2022	70
LINDALE INDEP SCHOOL DISTRICT	171009210	Peoples Communication, Inc.	800	Mbps	06/30/2021	70
NEW SUMMERFIELD INDEP SCH DIST	171035608	Cebridge Telecom TX, LP	100	Mbps	06/30/2018	90
TATUM INDEP SCHOOL DISTRICT	171022206	Cebridge Telecom TX, LP	200	Mbps	06/30/2018	80
TATUM INDEP SCHOOL DISTRICT	171022206	Tatum Telephone Company	500	Mbps	06/30/2020	80
TYLER INDEP SCHOOL DISTRICT	171004697	Cebridge Telecom TX, LP	10	Gbps	06/30/2027	80
TYLER INDEP SCHOOL DISTRICT	171004697	Conterra Ultra Broadband, LLC	10	Gbps	06/30/2025	80
UNION GROVE SCHOOL DISTRICT	171007598	Cebridge Telecom TX, LP	200	Mbps	06/30/2018	70
WHITE OAK INDEP SCHOOL DIST	171013619	Cebridge Telecom TX, LP	1	Gbps	06/30/2018	60
WHITEHOUSE INDEP SCHOOL DIST	171024184	Cebridge Telecom TX, LP	1	Gbps	06/30/2018	60
WHITEHOUSE INDEP SCHOOL DIST	171024184	Cebridge Telecom TX, LP	1	Gbps	06/30/2018	60
WINNSBORO INDEP SCHOOL DIST	171004295	Cebridge Telecom TX, LP	100	Mbps	06/30/2019	80
WINNSBORO INDEP SCHOOL DIST	171004295	Cebridge Telecom TX, LP	500	Mbps	06/30/2019	80
WINONA INDEP SCHOOL DISTRICT	171041935	Cebridge Telecom TX, LP	200	Mbps	06/30/2019	80

ATTACHMENT J

Sample of 2017 Erate Category 1 Services filed.

Latitude and longitude data for each location is at the following link:

<https://batchgeo.com/map/3ff09d2d18c8f5b07dba4469c3d7a5e7>

DName	Address	City	ST	Zip	Latitude	Longitude
ARP ISD	101 TONEY DR	ARP	TX	75750-0070	32.22971	-95.0602
BIG SANDY ISD	401 WILDCAT DR	BIG SANDY	TX	75755-0598	32.58762	-95.1111
CARLISLE ISD	8960 F M 13	HENDERSON	TX	75654	32.13571	-94.9433
CHAPEL HILL ISD	13172 Hwy 64 East	TYLER	TX	75707-9752	32.30932	-95.1892
HALLSVILLE ISD	210 GREEN ST	HALLSVILLE	TX	75650-0810	32.50143	-94.5757
HAWKINS ISD	179 HAWK DR	HAWKINS	TX	75765-1430	32.58208	-95.2087
HENDERSON ISD	200 N HIGH ST	HENDERSON	TX	75652-3103	32.15516	-94.7964
JACKSONVILLE ISD	953 N. Jackson	JACKSONVILLE	TX	75766	31.98052	-95.2744
LINDALE ISD	505 PIERCE ST	LINDALE	TX	75771-3336	32.50979	-95.4017
NEW SUMMERFIELD ISD	13307 HWY 110 S	NEW SUMMERFIELD	TX	75780-0006	31.98083	-95.0947
TATUM ISD	255 E. Sterling Price	TATUM	TX	75691	32.31777	-94.5153
TYLER ISD	1319 EARL CAMPBELL PKWY	TYLER	TX	75701	32.32833	-95.3152
UNION GROVE ISD	11220 UNION GROVE RD	GLADEWATER	TX	75647-1447	32.57142	-94.9227
WHITE OAK ISD	200 S WHITE OAK RD	WHITE OAK	TX	75693-1597	32.52898	-94.8613
WHITEHOUSE ISD	106 W WILDCAT DR	WHITEHOUSE	TX	75791-3130	32.23070	-95.2283
WINNSBORO ISD	207 E PINE ST	WINNSBORO	TX	75494-2628	32.96019	-95.2869
WINONA ISD	611 WILDCAT DR	WINONA	TX	75792-0218	32.49210	-95.1833



Bandwidth Targets.

<https://www.fcc.gov/general/summary-e-rate-modernization-order>

SN		94	53820	58668	58.67 Gb	586.68 Gb
SN	SHEETS:	Campuses	Students	All	IA	WAN
SN	Arp	3	902	1053	1.05 Gb	10.53 Gb
SN	BigSandy	1	529	575	0.58 Gb	5.75 Gb
SN	Carlisle	1	638	705	0.71 Gb	7.05 Gb
SN	ChapelHill	5	3652	3917	3.92 Gb	39.17 Gb
SN	Hallsville	6	5072	5705	5.71 Gb	57.05 Gb
SN	Hawkins	3	696	808	0.81 Gb	8.08 Gb
SN	Henderson	5	3380	3645	3.65 Gb	36.45 Gb
SN	Jacksonville	8	4979	5613	5.61 Gb	56.13 Gb
SN	Lindale	6	4046	4351	4.35 Gb	43.51 Gb
SN	NewSummerfield	1	554	606	0.61 Gb	6.06 Gb
SN	Tatum	4	1678	1798	1.80 Gb	17.98 Gb
SN	Tyler	28	18130	19492	19.49 Gb	194.92 Gb
SN	UnionGrove	3	760	829	0.83 Gb	8.29 Gb
SN	Whitehouse	9	4731	5077	5.08 Gb	50.77 Gb
SN	WhiteOak	4	1503	1625	1.63 Gb	16.25 Gb
SN	Winnsboro	3	1533	1753	1.75 Gb	17.53 Gb
SN	Winona	4	1037	1116	1.12 Gb	11.16 Gb