

END OF ADDENDUM

Bidders must use the Following forms for submitting unit pricing
UNIT PRICE ADDENDUM 030719 PART A:
UNIT PRICE ADDENDUM 030719 PART B:

Pre-bid Conference Questions and Answers - March 6, 2019

ATTENDEES:

SHELD Bobby Liswell Telecom Manager
SHELD Kim Mendoza Admin Assistant

Collins Electric
CMS Landscaping
Sertex LLC

Michael Angelica
Jay Ouellette
Shawn Harmon, Russ Freeman

MEETING NOTES: Q & A

- 1) See Addendum: Phone install pricing – *none if done at same time as install. If vendor has to go back, the hourly labor rate per hour in Part B (NID to Router) will be applied in this effort*
- 2) Is there a specific order of install in the 3 Fiberhoods – *Starting with the one showing most interest and move to others. SHELD running messenger strand now in these 3 Fiberhoods*
- 3) Are there any developments that are multi-units – *Not at this time.*
- 4) What will be the start time after the bid award – *See Starting Time Line Below*

TIME LINE AS OF 3/6/19:

April – Award & Finalization of Bid Contract 2019-2B Documentation and Project Kick off
April / May – Working with contractor’s installation team and there iPads / mobile devices to train and interface with SHELD Sprypoint project software for new customer installation work orders
May / June - Develop and standardize an installation process based around current bid Installation requirements and work order data entry mentioned in Bid Contract 2019-2B
June / July - Begin installation for new customer that have applied for Fibersonic services.

- 5) Who is doing initial consults – *SHELD will do site visits prior to each install.*
- 6) Are there going to be drop cables to every home – *No, only those who sign up.*
- 7) Will the contractor be required to lash out from the MST to each new location – *Yes*
- 8) Prevailing wages – *should outside work use outside wages and once go inside to work use inside wages? Bob - prevailing wage will apply when systems are being secured from the utility source / Communications Space to the outside of the private residence only.*
- 9) Where will contractor materials and vehicles be stored –*SHELD, Plains Yard which is fenced area, no cameras and use at contractors’ risk SHELD not liable for damages or vandalism.*
- 10) Project Contacts - *Bob Liswell and Norm Blanchette will be contact people to set up routines.*
- 11) What does contractor supply – *SHELD will be only supplying the NID, ONT & Wi-Fi Router Contractor to supply remaining installation materials, tools, vehicles, lashing and equipment to perform the BID requirements.*

Continued on Next Page

- 12) Who will do the provisioning of the of the Calix 803C ONT & Calix 844E Wi-Fi Router equipment – *Contractors. Installers will call into SHELD helpdesk center hosted by Netegrity for completion of this portion of their installation.*
- 13) See Addendum: Underground depth clarification - *MUST BE TO LOCAL ELECTRICAL CODE REQUIREMENTS of 18" to 24'.*
- 14) See Addendum: *Underground unit cost based on only 100' increments- change to per foot rate after first 100'.*
- 15) *What if customer has a finished basement – SHELD will negotiate a location on first floor with customer. If additional Labor / Pricing is need extra charges will be passed on to customer per BID.*
- 16) Need clarification? *Is contractor required to wall fish – Yes, 1st floor only*
- 17) Who is responsible for patching at FDC cabinets – *SHELD*
- 18) CORI checks - *To be done and presented by Contractor / Vendor prior to project kick off, or 48hrs prior to Installation for approval*
- 18) Is the police detail cost passed back to SHELD – *yes, the contractor will sign off in field so SHELD aware of what the billing should be.*
- 19) Who determines the police detail – *Both contractor and SHELD.*
- 20) Who Scheduling installs – *Contractors to work with SHELD to schedule jobs. SHELD will make initial calls to customers. SHELD will make sales, then do a walk through and supply customers with info to make people aware of the process.*

SECTIONS OF REFERENCE FROM THE INVITATION FOR BIDS Bid # 2019-2B

TRENCHING

GRASS/SOD TRENCH INSTALLATION (Page 57)

Where plowing is unfeasible, Contractor shall excavate as required (i.e. machine trench, hand dig, etc.) to install ducts as indicated in the Contract Drawings as applicable to allow a minimum of twelve inches (18") (typ.18"-24") of cover to top of conduit below finished grade, or as specified on the Contract Drawings and/or permits. The installation shall be complete with removal and disposal of excavated materials or materials not suitable for backfill and the installation of the conduit.

CONDUIT DEPTHS (Page 68)

Trench depths will achieve a minimal depth of 24" of cover across all conduit installations, tree belt, roadway, driveway, sidewalk, and public way. Trench depths on private property will achieve a minimal 18" to 24" of cover. Any deviation from placement depths specified due to unforeseen circumstances must be reviewed and granted by OWNER project management. As-built plans must show deviation at all paths affected.

1.13 Pre-Bid Conference (Page 12)

Mandatory Pre-Bid Conference will be held Wednesday, March 6 at 10:00 AM (Ten O'clock) at the South Hadley Electric Light Dept, 85 Main Street, South Hadley MA 01075.

Continued on Next Page

UNIT PRICE ADDENDUM 030719 PART A:

Fibersonic PART A: Outside Installation (MST to NID) UPDATED PRCICNG SUBMMITL FORM AS OF 03/07/19

Clean / Scope / Connect the drop-fiberoptic cable into MST designated for that service location. Install exterior NID device and drop wire attachment hardware, onsite of dwelling at location near existing telco/coax facilities entrance. Extend drop fiber from MST, via aerial and or underground duct to fusion splice an SM, SC APC connector to be tested then plugged into SHELD supplied NID. All other materials not supplied by SHELD will be supplied by vendor. The Vendor will be responsible for all Dig Safe duties including premise repairs and restoration of customers well water systems connections, gas piping / plumbing, sewage / sewer / waist system, sprinkler / irrigation systems, dog alarms, satellite systems cables or any systems that need to be identified below grade with home owner prior to installations described below.

ITEM	Aerial Installations (Estimated Linear Footage AE 213,000')	Est Qty	Unit	Unit Cost
1	Unit base rate per premise - 1 drop cable up to 150' (1420 premises x 150'= 213,000' drop feet)	426	Premise	
2	Additional footage per Linear Foot	Per LF	LF	
	Note that the % of aerial and underground will change based off of the 6 FSA's Locations, Feeder Fiberoptic cable footage from FTTH GPON areas in this bid package totals 36,178' (24,48,72 SM Cable)			

ITEM	Underground Installations (Estimated Linear Footage UG 40,003')	Est Qty	Unit	Unit Cost
4	Machine Plow of HDPW micro duct - 18" to 24" depth	Per LF	LF	
5	Machine Trench 18" to 24" of HDPW micro duct - 18" to 24" depth (Local Requirement)	Per LF	LF	
6	Machine Bore under roadway or driveway, pull HDPE micro duct - 18" to 24" depth	Per LF	LF	
6A	Add Drop Cable Into Existing Underground Conduit (telecom occupied)	100	LF	
7	Rod / Rope existing conduit / Pull in FO drop cable (existing live phone drop wire)	100	LF	
8	Removal / Re-installation of copper phone / coax cable with new FO drop cable	100	LF	
8A	Add Drop Cable Into Existing Underground Conduit (empty spare / unoccupied conduit)	100	LF	
9	Rod / Rope existing conduit / Pull in FO drop cable (existing empty conduit)	100	LF	
10	Police Details (road-crossings) to be coordinated and paid by Contractor (and charged back to SHELD) (Please see attached detail information on hourly rate and min hours)	4	MIN	
	(Please see attached detail information on hourly rate and min hours)			

OSP Instructions / Notes:
Bids must be submitted with line item pricing for installations of FTTP service drops for all items, and all subject to the contract bid requirements.
Item 1 - Service Drop Fixed Fee Aerial - Shall encompass all labor, equipment and material cost that are fixed relative to FO cable pathway length, including aerial placement of cable, slack loops, NID installation, splicing, connectorization, cable terminations, aerial fiber drop cable, and mobilization. This fixed fee shall cover the complete outside installation and testing for premises up to 150 feet cable length from MST to NID and that does not require any new trenching or micro ducting or sharing of existing conduit, Duplex housing units shall use a 2-fiber cable drop counted as 1.5 units.
Item 2 - Aerial Path Installation (beyond 150') - Shall encompass all labor, equipment material charges for installation of FO service drop cable along any aerial segments of the path between a NID and an optical fiber termination port, measured on a per linear foot basis per premise.
Items 4,5,6, - New Underground Installation (Micro duct) - Shall encompass all Labor, equipment material charges for installations of service drop cable along any underground segment of the path between a NID and an OF terminal port requiring new micro duct / conduit placement, underground drop cable, including pull tape and tracer wire installation required.
Item 7,8,9 - Existing Underground Installation (existing / spare) - shall encompass all labor, equipment material charges for installation of service drop cable along any underground segment of the path between a NID and an FO terminal placed in existing conduit, to include any rodding, roping, pull tape installations, underground drop cable, and tracer wire installation required.



UNIT PRICE ADDENDUM 030719 PART B:

Fibersonic PART B: Inside Installation (NID to Router) UPDATED PRCICNG SUBMMITAL FORM AS OF 03/07/19

	Qty	Unit	Unit Cost
<p>Contractor to provide the fiber jumper and ID20NT CAT6 patch cable Owen to router mounting hardware miscellaneous materials labor and set up. SHELD MLP will provide the NID, ONT AND ROUTER (Some subscribers my use their existing routers per request). Standard Installation includes up to 50ft, of FO basement cabling from NID and up 75ft of Cat-6 to the customers first floor location following Massachusetts electrical requirements, NEC and NFPA of inside wiring and town the of South Hadley Building department requirements when performing any and all work. Customer must provide power outlet within 5ft of ONT and Router. Basement or crawlspace must be unfinished and or have accessible drop ceiling in place. Additional work such as Installation of a RJ45 outlet, extending CAT6 and router to 2nd floor, etc. Would need to be quoted to customer/subscriber, accepted and signed by home owner and billed directly to homeowner by Installation contractor. Coordinate Installation schedule and activate ONT with Fibersonic/SHELD provisioning host or ISP. Especially important if customer has a contracted for POTS phone service so coordinate of porting over phone number can happen the same day.</p>	426	Premises	
<p>Cutover existing phone wiring to ONT RJ-11 port and test for dial tone, number confirmation and subscriber's connection to existing equipment</p>		Per Phone Line	
<p>Labor Rate per hour (beyond standard installation above, as requested by homeowner)</p>		Hourly	
<p>Labor Rate Per hour for Wi-Fi Router additional programing & porting over / phone cutover installations</p>		Hourly	
<p>The above numbers assume a 2 year% subscriber rate likely from 7700 location</p> <p>Not that in the premise report exact distances are not given for the "Standard Drops" of less than 250ft of either aerial or underground. The report simply assumes 50'-150' for each of them so footages estimates are conservative on the high side due to this assumption.</p> <p>Some installations are "combine drops" where the drop might include both underground and aerial installation on the same premise.</p> <p>Unit quantities specified in the Bid Form are based on a total best estimate, to allow contractor to gauge the approximate scope of total work involved.</p> <p>ALL contractors' employees working for SHELD on this project must have a MA CORI background check done by employer and submit background check paperwork to bliswell@sheld.org 48hrs for approval for employee to begin work/installations or entering a subscriber / customer location. (Must Submit a copy of program with this Bid)</p> <p>ALL contractors' employees working for SHELD on this project must have a drug free company program in place, electronic copy of program paper work must be sent to bliswell@sheld.org 48hrs for approval for employee to begin work/installations or entering a subscriber / customer location. (Must Submit a copy of program with this Bid)</p> <p>ALL contractors' employees working for SHELD on this project must have an employee record of drivers licenses, trade license and certification programs in place, electronic copy of program paperwork must be sent to bliswell@sheld.org 48hrs for approval for employee to begin work/installations or entering a subscriber / customer location. (Must Submit a copy of this program with this Bid)</p>			

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EMAIL CORRESPONDENCE Q&A

From: Shawn Harmon <sharmon@sertexllc.com>
Sent: Thursday, March 7, 2019 11:51 AM
To: Bobby Liswell <bliswell@sheld.org>
Cc: Kim Mendoza <kmendoza@sheld.org>
Subject: Bid # 2019-2B - FTTP Services - Questions

Bob, ***SHELD responses in BOLD by Bobby Liswell Telecom Manager "BL"***

Nice seeing you yesterday, it was good to see the crews actively installing the messenger as well.

I have a few more questions and to verify a few items discussed at the Pre-Bid meeting yesterday:

Please verify that you are requiring the Drop Cable to be lashed to the messenger strand and/or distribution bundle already installed, for those drops that go pole to pole then to house, etc. ***BL - Lashing between pole segments / pole to pole section***

Regarding the new UG installs, who will be responsible to repair broken sprinkler lines, dog fences, etc. on the homeowner's property if damaged during the microduct install? These lines will not be marked out by Dig-Safe so these existing lines will un-marked utilities in essence? In our experience most homeowners will not know where these lines are located. ***BID Fibersonic PART A gives clear direction that vendor / contractor will be responsible for all dig safe duties***

Will you be changing the Bid Pricing sheet On Items # 4-9 to add in the price per foot after the 100ft as discussed in the pre-bid? ***BL- Yes***

Please verify the depth of the microduct install, bid sheets states 18-24", spec says 12" keep in mind that certain equipment utilized in most cases to install the microduct can only achieve the 12" depth, by increasing depth requirement to 18" will require larger equipment on homeowners' lawns, etc. increasing the costs for restoration. ***BL Town Electrical Inspector requested 18" to 24" which is per MA electrical code requirements***

How will you handle instances on the existing conduit where the contractor rods/ropes and encounters a conduit blockage and cannot install the drop, how will that lost time be reimbursed? ***BL- Contractors bidding this project should submit an estimate to SHELD of additional charges of time & materials.***

As discussed, please verify in writing that the contractor will be responsible to provision the ONT & Router. Please detail the work required to accomplish this? ***Contractors / Vendors installers will call into SHELD helpdesk center hosted by Netegrity for completion of this portion of their installation.***

Please verify as discussed SHELD employees will be assigning the port and activating the MST in the FDH cabinets at the pole before the contractor goes to install the drop. ***BL- YES***

Please verify that no permits will be required for UG duct installs and/or interior wiring with the Town. ***BL- Electrical inspector has communicated that this is not necessary but will inspect installations as needed.***

Continued on Next Page

The splicing specification states .01 db, please clarify that this should be a .10db spec. **BID Doc Page 18, Sec 2.7 states 0.1 SHELD will accept no more of a 0.5 loss on the splice. Contractor must resplice for a better result to SHELDs acceptance threshold of fusion splice loss**

Who will be supplying all the pole line and house drop material, P-hooks, lashing wire, Fiber drop clamps. Etc. **BID Fibersonic PART A gives clear direction that vendor / contractor will need to supply these items**

How will you handle last minute/day of customer cancellations or homeowner delays in regards contractor reimbursement? **BL – For no shows or less than 24hr cancellations the contractor / vendor may charge the homeowner a \$50.00 cancellation fee.**

How will you handle out of scope UG duct install issues, such as rock/ledge, tree roots, flower gardens, etc.? **BL- Contractors bidding this project should submit an estimate to SHELD of additional charges of time & materials.**

Please clarify if you expect any Town/State road crossing for the New UG u=installs or Bores, or is the bore pricing meant for driveway/sidewalk crossings? **BL – None at this time**

Please clarify how Items 4-9 will be paid to the contractor, for example if the contractor bores a 25FT driveway will he be paid the full 100FT? **BL – See updated Unit Price Addendum “Forms” 030719 A&B**

Will the UG riser poles need protection, will a contractor provided U-guard need to be installed? **BL- Yes**

Will the contractor be required to fish the wall and install a CAT 6 wall plate for installs that require the Router on the 1st floor, etc. **BL- Yes, Follow local electrical code and TIA-EIA requirements**

Thank You

Shawn J Harmon | Vice President of Operations



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END OF ADDENDUM