

May 25, 2021

Addendum No.3- RFP No.020521-Madea USD Install and Operate Turn key Private LTE Network

NOTICE TO ALL VENDORS:

This Addendum is attached to and made a part of the above-entitled specifications for Madera Unified School District for RFP No.020521-Madera USD Install and Operate Turn Key Private LTE with a due date of ~~June 8,~~ **June 22, 2021 @ 10:00 a.m.**

All changes and/or clarifications will appear in bold type and deletions will be struck out within a sentence.
Questions/Clarifications:

Questions:

1. According to the attached license profile from the FCC. In addition to the 10 Mhz of EBS spectrum that the MUSD has been allocated, the Madera County Superintendent of schools has been allocated 20 Mhz of spectrum. Has MUSD discussed with the county if this spectrum could be made available, if so what were the results of that discussion. If not, does the MUSD feel that it is likely to be approved for this use by the County Superintendent of Schools?

The MCSOS spectrum is leased to a carrier until the end of 2023. Once the lease has expired, MCSOS intends to utilize their EBS spectrum for a student network. This could be combined with MUSD spectrum at that time for increased bandwidth.

2. Page numbers are not consecutive, is this correct? **See attached with corrected page numbers.**

3. For annually recurring charges, will MUSD pay annually at the beginning of the year for one year at a time or for the entire term at the beginning for the 3 year and 5 year quotes? **The full term would be paid all at once. 1 year, 3 year or 5 year.**

4. Is this proposal to be built to assume 100% distance learning or it is assumed that most students will be in class and this is to provide after-hours service?

Options to provide less bandwidth or capability during school hours when students are in class should be provided as Alternate 1 – Value Engineering. It's likely that most students will be in person next school year, but we are looking for a network that will provide robust capabilities all day – it will see the most use after school hours.

5. Will there be some level of security to prohibit students or other family members to use the service to surf the web, play games, stream Netflix etc.?

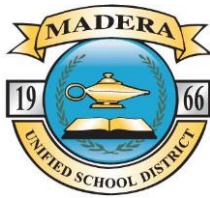
***MUSD uses Relay Lightspeed filtering for filtering on the student chromebook.**

***CPE devices routed through the district network to the internet will be filtered by Palo Alto URL filtering.**

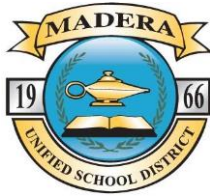
***CPE devices that route through a separate network will require some sort of filtering software.**



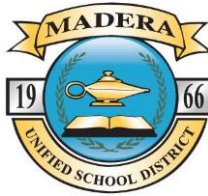
6. What applications will be used by the students?
- Chromebooks with Gsuite (email, docs, etc.), Youtube, Zoom, Google Hangouts**
 - VDI – Windows 10 Desktops on VMware Horizon Cluster in datacenter**
 - Digital Curriculum – Examples in use**
 - Benchmark**
 - Amplify Science**
 - Big Ideas Math**
 - Lexia**
 - Springboard**
 - TCI**
 - TWIG Science**
 - Typing Agent**
 - Bio-Zone**
 - California Math in Focus – HMH**
 - Wonders – McGraw Hill**
 - StudySync – McGraw Hill**
 - MyMath – McGraw Hill**
 - Pearson – MyWorld Interactive**
7. Approach A. Technical Proposal: II Layout and drawings: Does a separate drawing need to be made for each site or will generic drawing be acceptable?
***Generic drawings are acceptable for the bid. Site specific drawings will be required once the bid has been awarded.**
8. If we are going to make drawing of the site, will the school district provide structural analysis of each pole to allow us to determine if it can hold the weight of our equipment?
***Vendor would be responsible for structural analysis after being awarded the bid.**
9. Will the district provide location of IT Equipment room at each location?
***Yes, we can provide that as needed.**
10. Will the district provide space and power availability in each equipment room? **Yes, provided as needed**
11. Will the district provide conduit layouts for each building (admin building and school) as well as audit of conduit space? **Yes, provided as needed**
12. Will the district provide transport and power availability to any vertical structures and any of the schools?
- Questions 7 – 9 – The district can provide information that is readily available for specific requests within reason. The district cannot provide all of this information for every location as an ad hoc request prior to bidding.**
 - The district can review proposed power requirements of equipment and provide feedback as to the feasibility of installation at specific locations.**
 - The district will provide as much access to this information as is reasonable when awarding a bid to a vendor.**
 - Additionally, some of the older schools may not have reliable blueprints.**



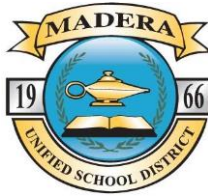
13. Can you give us more specifics on what is meant by Value Engineering and Leased Tower Options?
 - a. **Value Engineering Alternate – If the vendor believes the school district is overlooking an opportunity to design the network in a way that saves money or serves more students for a similar cost, it is an option for the vendor to propose something creative and outside the limits proposed within the spec.**
 - b. **Leased Tower Alternate – Proposals that provide a tower owned by the vendor with space leased for district equipment. Proposals that provide a tower owned by the district with space leased to carriers. Essentially, options that provide a creative way to meet student needs and are potentially a cost savings for the project.**
14. Section 4 page 4 “The vendor is responsible to obtain all necessary right of ways necessary to this project.” Will vendor be given right of way on district property?
***Yes, within reason to complete the project.**
15. Section 4 page 4 “be responsible for all cost related to permits, construction, easements, and other costs”. Is permitting needed for on school grounds construction?
***DSA permitting approval is required. Any other permits needed should be determined by the vendor. The vendor is responsible for determining if permits are required.**
16. What is the location of the Madera Unified School District Office Data Center?
***At the District Office – 1902 Howard Rd**
17. Are there any alternate ingress/egress point from the MUSD network?
***Not at this time.**
18. Scope of Work Page 6: Is data capacity throttling by Mbps, on total consumption?
***Yes**
19. If and where will content filtering occur (on each device or a centralized content filter behind the Madera firewall)?
***At the student device with district software and/or on the url filter on the Madera firewall.**
20. What is the available bandwidth of the EBS spectrum?
***See previous email with this information.**
21. Scope of work page 6 #4: What is meant by “it will be the responsibility of the vendor to ensure that spectrum will be available to utilize and meet the intended needs of this project?”
 - a. **The vendor should only recommend equipment that can be utilized. Madera Unified will accept no responsibility or payment for equipment that is non-functional because of spectrum issues. We are relying on the vendor for this expertise.**
 - b. **To deliver 4.5 to 8 miles from pole locations high gain, directional outdoor units will need to be installed at each student’s residence. Has the school contemplated this? Yes, we shouldn’t need this for all students though, and we are looking to vendor expertise on this issue. Please see student addresses provided in the previous email sent to vendors to see how many students are at this distance.**
 - c. **Alternate 1 – Value Engineering could be used to propose alterations to this distance request, if it makes more sense to have less range and more locations or cover some students outside a certain range with a private carrier.**



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22. Outdoor Units (ODUs) will require a professional installation. How does MUSD envision the installation process occurring?
- Open to options on this. One method could be utilization of our parent resource centers to provide vendor contact information to parents, so that parents can schedule installation with the vendor.**
 - Alternatively, the district could provide verified addresses to vendor after bid award to schedule installation.**
 - Installation should be built into the contract for a certain number of households with a determination for how this will be handled each school year and throughout the school year.**
23. Will the school district purchase new CPE every year?
- The District will collect mobile CPE as needed each year and purchase new CPE to replace broken or missing CPE.**
 - For hard installs on homes – vendor should provide a cost to recover units or specify if units will not be uninstalled so the district can factor the cost of lost equipment each year into our budget.**
24. Will an attempt be made by the school district to recover CPE from graduating students?
- Yes**
25. If no attempt is made to recover CPE from graduating students, how does the MUSD envision disabling service to those students. Is that an MUSD function or a vendor function?
- That can be an MUSD function. MUSD should have access to disable student devices in the provided software. Ideally, software should have a CSV or API interface that will allow the school district to mass disable CPE as needed.**
26. Scope of work p 7 #11: is the intent of the MUSD that some users of the wireless network will be able to access sensitive information or the no sensitive information will be accessible by anyone on the wireless network?
- No, users of the wireless network should not be able to access sensitive information. District student information systems and ERP systems should not be accessible from this connection. Student resources, such as VDI should be accessible.**
27. Scope of work p 8, #17: Does MUSD have an existing IT incident management process, including systems, and contacts and can that be provided to us.
- Yes**
28. Scope of work p 8 # 24: Will the MUSD be providing the power to the sites. Will that be charged back to us. If so, what are the rates?
- MUSD will provide power. If it is a leased service or towers are owned by vendor, that would need to be specified in the bid.**
29. Scope of Work. Are there any construction restrictions during the school year (i.e. you can have heavy equipment on elementary school playgrounds when school is in session)?
- Temporary fencing is required; District will work with vendors as needed.**
30. Terms and conditions p 10 #7: Proposed-employed? **This should say proposer employed. Specifying warranty work is done by the vendor, not by the district or subcontractors. If sub contractors are used for warranty work, the district must agree to that in the contract.**



31. Current Environment p 11: Depending on the traffic load as defined by the school the 10G pipe may not be sufficient to provide service. Who is responsible for upgrading the bandwidth of the 10G circuit?
- The district is responsible.**
 - The vendor is responsible for clarifying if this is a requirement in their bid or what the vendor believes can be achieved with existing bandwidth.**
32. What is the load assumption? End user Up/Down? Times of day?
- How many students are they anticipating will qualify to use the network?
 - Approx. 1500 initially – would like the ability to scale this service up as needed.**
 - Indoor coverage at the schools and the district offices?
 - No**
 - Will the data be moving through the school's firewalls and filters to reduce unwanted traffic?
 - Yes, that can be included in the design. However, the vendor is responsible for insuring that traffic is secured from sensitive systems.**
 - What types of devices will the students be using in their homes?
 - Chromebooks – 99% of students will use chrome books**
 - School issued laptops – special use cases – but very unlikely**
 - Is the internet available for the entire family in residence? – As a general rule no, but we know families will attempt to utilize the service. Restrictions to prevent use by the family can be considered if it will increase functionality for the student and save bandwidth on the network.**
 - List of height of each monopole
 - To be determined by vendor.**
33. Address of each school, school district building and monopole
- Which schools have direct access to monopoles?
 - None currently, vendors would need to determine placement and make recommendations. See RFP.**
34. Does the school own monopoles and able to provide access?
- No, vendor needs to make determinations.**
35. Critical to understand the 2.5 spectrum position and is it cleared?
- Not sure what the question is asking.**
36. Can the school district provide clarity on the service area, as the proposal is not entirely clear in verbiage vs. the picture? (Monopole map)
- The service area should be determined by the addresses provided in the previous email to vendors after the pre-conference. All addresses provided are students currently be serviced with AT&T hotspots or Comcast internet provided by the district. The monopole map was an example based on some of that data.**
37. Is there any fiber between sites? **Yes, ASE Fiber on Demand**
38. What frequencies does the Madera USD operate in the EBS Range? **IT shared information to those who attended the mandatory zoom meeting.**



39. Is professional install of equipment on exterior student houses possible? **It should be possible, that will depend on the family or landlord for an individual household.**
40. Can we assume tower construction to allowing for hanging 120 ft height permissible at facilities (on rooftop or ground based)? **The district is OK with this, it's the proposer's responsibility to determine any other requirements for DSA, aircraft, city, county, etc.**
41. We understand the network does not need to support all uses at max throughput at 'busy hour'. As such, for peak load capacity planning, we considered Zoom application and basic video requirements and assumed 750 simultaneous users with 2Mbps down and 800kbps up. Is this acceptable? **Zoom is used in tandem with other applications, so 2Mbps down would likely be insufficient. Proposer can provide a table that shows the possible bandwidth for X number of users on the proposed network. This is quite a bit lower than the speed in the RFP, so it should come as an alternate.**
42. Any opportunity to scale it down? **As an alternate, the district would look at the proposal. Keep in mind that the district wants to move forward with a system that scales up quite a bit more than 1500 students if needed**
43. Madera requires the use of the pricing worksheet CPE devices required to support up to 1,500 end-users. Can Madera USD please confirm that it intends to issue a Purchase order to the awarded contractor for all 1,500 CPE equipment as a one-time lump-sum purchase order? If not, can Madera USD please clarify what the incremental purchase amounts would be over time within the expected 6-month implementation timeline – or further clarify if those 1,500 end-user orders would be fulfilled after the 6-month implementation. Seeking further clarifications as this affects pricing.? **CPE units would be a lump sum purchase.**

Date_____

Signature_____