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Chico USD – Erate Questions/Clarifications

Hello Mr. Sclare,

Below I've compiled my notes from the job walk along with questions from the walk and after. This letter specifically addresses **McManus and Fairview schools**. Would you please review for the addendum so we can all be quoting the same project, counts and materials at the time of bid?

- Replace backboards as necessary.
- Asbestos related work: abatement, drilling, etc. will be by the district.
- 10 Gig backbone fiber optic backbones will be required. OM3-300 meter at a minimum. OM4-550 meter at a maximum.
- All existing cabling is to be removed by the contractor.
- All voice feed cables will be terminated on rack-mount patch panels.
- **McManus:**
  - 12-strand fiber to all IDF's
  - **Voice feed cables. Can you state what is needed to each IDF?**
    - **Room 907 25 Pair**
    - **Room 912 2 CAT 5e**
    - **Room 922 (MDF) 12 Pair**
    - **Room 20 25 Pair**
    - **Room 3A 12 Pair**
    - **Room 25 12 Pair**
    - **Room 29 12 Pair**
    - **Hall Unit C 12 Pair**
  - **IDF cabinets. Can you state which remain, which are new and the size of the new cabinets?**
    - **Room 907 Existing 2'**
    - **Room 912 Existing 2'**
    - **Room 3A Existing 2'**
    - **Room 25 Existing 2'**
    - **Room 29 Existing 2'**
    - **Hall Unit C New 3'**
  - MDF/IDF cabinets to remain:
    - Room 20 (2 x 2')
    - 922 (MDF)

- New 2” conduit with cans between room 3 and room 3A under eve
- New 2” conduit with cans between room 922 and office under eve
- Add (14) WAP cables coiled with 20’ loops inside of exterior locations
- Add a 2” seal-tight sleeve between rooms 25 and 26
- Change cable count from 8 to 12 in the MPR building
- Change cable count from 10 to 24 in room 3A
- Change cable count from 14 to 18 in room 3
- **Change cable count from 14 to 22 in room 24**
- **What are the counts and locations of the added antennas with conduit, mounts, LMR cable, grounding, etc.?**
  - **See Wireless Antenna Scope: Appendix A below**

- **Fairview:**
  - 6-strand fiber to room 10 computer lab
  - No new fiber to rooms 23 or Shop
  - 12-strand fiber to all other IDF’s
  - **Voice feed cables. Can you state what is needed to each IDF?**
    - **Room 19 (2) Cat 5e OSP 4-pair per walk to MDF**
    - **Room 12 12 Pair**
    - **Room 918 (MDF) 50 Pair**
    - **Room 8 12 Pair**
    - **Room 4 12 Pair**
    - **Room 2 25 Pair**
  - **IDF cabinet. Can you state if the IDF will remain, be replaced and if replaced with what size?**
    - **Room 2 Existing**
    - **Room 23 Existing**
    - **Shop Existing**
  - New IDF cabinets:
    - Room 19 (2’)
    - Room 12 (3’)
    - Room 8 (3’)
    - Room 4 (3’)
  - MDF cabinet to remain:
  - New 2” conduit with cans between MDF and MPOE under eve
  - New 1” conduit with from can to new can at room 19
  - Add (14) WAP cables coiled with 20’ loops inside of exterior locations
  - Add a 2” seal-tight sleeve between rooms 917 and 15, 15 and 16 as well as 16 and 17
  - Change cable count from 14 to 42 in room 10
  - Change cable count from 2 to 4 in room 21
  - Change cable count from 2 to 4 in room 22
  - Change cable count from 2 to 4 in room 23
  - Change cable count from 2 to 4 in room 24
  - Change cable count from 2 to 4 in room 25
  - Add room 900 with 10 cables
  - Add room 902 with 2 cables

- **What are the counts and locations of the added antennas with conduit, mounts, LMR cable, grounding, etc.**
  - **See Wireless Antenna Scope: Appendix A below**

- **Are all classrooms and library going to 16 cables each?**
  - **All Classrooms at Fair View, AFC, and CAL will have 14 drops.**

This is my understanding and questions from the job walks. Would you please let me know if I've misinterpreted any of the changes and clarify the questions?

Below I've compiled my notes from the job walk along with questions from the walk and after. This letter specifically addresses **Citrus and Chapman schools**. Would you please review for the addendum so we can all be quoting the same project, counts and materials at the time of bid?

- Replace backboards as necessary.
- Asbestos related work: abatement, drilling, etc. will be by the district.
- 10 Gig backbone fiber optic backbones will be required. OM3-300 meter at a minimum. OM4-550 meter at a maximum.
- All existing cabling is to be removed by the contractor.
- All voice feed cables will be terminated on rack-mount patch panels.
- **Citrus**:
  - 12-pair voice & 12-strand fiber to portable 23
  - 12-pair voice & 12-strand fiber to portable 21
  - 12-strand fiber to the remaining IDF's in MPOE and room 13
  - 50-pair voice feed from the MPOE to MDF
  - New 4' IDF cabinet in the MPOE
  - Existing IDF cabinet to remain in room 21
  - Existing MDF cabinet to remain in room 928
  - Move existing IDF in room 23 up within 2" of the ceiling
  - New 2" conduit with cans between room 12 and room 13
  - Add (14) WAP cables coiled with 20' loops inside of exterior locations
  - Add (8) WAP locations to the interior hallways
  - Add a 2" seal-tight sleeve between room 23 and 24
  - (48) cables in room 11 run back to the MDF or IDF in the MPOE
  - **What are the counts and locations of the added antennas with conduit, mounts, LMR cable, grounding, etc.**
    - **See Wireless Antenna Scope at Appendix A below**

  - **Question: Are we adding new 3' IDF cabinet in room 13?**
    - **Yes, please add a 3' IDF cabinet**

  - **Are all classrooms and library going to 16 cables each?**
    - **All classrooms at Citrus will have 16 drops each.**
- **Chapman**:
  - 6-strand fiber to the IDF in room 3

- 12-strand fiber to all other IDF's
- Voice feed cables:
  - MDF to room 903 is a 50-pair riser rated cable
  - Room 903 to room 7 is a 50-pair OSP rated cable
  - Room 7 to room 3 is a 25-pair OSP rated cable
  - Room 3 to room 4 is a 12-pair OSP rated cable
  - MDF to room 19 is a 50-pair riser rated cable
  - Room 19 to room 24 is (2) Cat 5e OSP 4-pair cables
  - Room 19 to room 27 is a 25-pair OSP rated cable
- Existing IDF cabinets:
  - Room 4
  - Room 3
  - Room 24
  - Room 27
  - Room 903 (MDF)
- New IDF cabinets:
  - Room 7 (3')
  - Room 907 (3')
  - **Room 19 (3') added during the site walk**
- New 2" conduit with cans between room 13 and room 24 under eve
- Add (14) WAP cables coiled with 20' loops inside of exterior locations
- Add a 2" seal-tight sleeve between rooms 4 and 5, 9 and 10, 25 and 26 along with 25 and 27
- Change cables from 8 to 12 in the MPR building
- Add 4 cable drops to 905
- **What are the counts and locations of the added antennas with conduit, mounts, LMR cable, grounding, etc.**
  - **See Wireless Antenna Scope: Appendix A below**

Additional Information:

1. 100% Performance and Payment Bonds shall be required for bids exceeding $250,000.00.
2. Sub-Contracting will be allowed for trenching.
3. All asbestos related penetrations will be made by the District.
4. As-Builts and test data sheets are required for all sites at the end of the project.
5. All vendor bids must be calculated with Prevailing Wage
6. The vendor must provide patch cables for IDF/MDF's. Sizes may vary depending on cabinet, 3', 5', and 7' cables are standard.
7. The vendor must provide a 12' data patch cable for each classroom data drop.
8. Any underground data/voice feeder cable must be must have matching protection for grounding

Wireless Antenna Scope - Appendix A

Scope for Outdoor Wireless Antennas at Fair View, AFC, CAL, Citrus, Chapman, and McManus

Qty	ITEM	Description		Antenna Location
		FAIR VIEW / AFC / CAL		
12	J8996A	HP Networking Antenna Lightning Arrester	Rooms	14, 912, 2, SHOP
12	TL-ANT24PT	N-type Male Antenna to SMA Male Adapter		
36	RFN1028-SI	Conn, N-Female Crimp for 9913, LMR400, Cble Grp 1		
4	LMR400-DB	300 feet Low Loss RG8 Type 50 Ohm Coaxial Cable		
		CITRUS		
12	J8996A	HP Networking Antenna Lightning Arrester	Rooms	917, 15, 4, 23
12	TL-ANT24PT	N-type Male Antenna to SMA Male Adapter		
36	RFN1028-SI	Conn, N-Female Crimp for 9913, LMR400, Cble Grp 1		
4	LMR400-DB	300 feet Low Loss RG8 Type 50 Ohm Coaxial Cable		
		CHAPMAN	Rooms	10, 14, 24, 26
12	J8996A	HP Networking Antenna Lightning Arrester		
12	TL-ANT24PT	N-type Male Antenna to SMA Male Adapter		
36	RFN1028-SI	Conn, N-Female Crimp for 9913, LMR400, Cble Grp 1		
4	LMR400-DB	300 feet Low Loss RG8 Type 50 Ohm Coaxial Cable		
		JOHN McManus		
12	J8996A	HP Networking Antenna Lightning Arrester	Rooms	907, 10, 925, 3A
12	TL-ANT24PT	N-type Male Antenna to SMA Male Adapter		
36	RFN1028-SI	Conn, N-Female Crimp for 9913, LMR400, Cble Grp 1		
4	LMR400-DB	300 feet Low Loss RG8 Type 50 Ohm Coaxial Cable		

Cabling Scope for Antenna's:

Mount District Provided Wireless Antenna to vendor provided Masts

Masts are to be 1 1/4" to 2" EMT with Unistrut Clamps and bolted with lags to structure

Cables are to be terminated and tested by vendor

Penetrations are to be made by vender unless the structure is determined to have asbestos

Asbestos Penetrations are to be made by district

3 LMR 400 Cables need to be run between Antenna and closest Access Point (less than 100 feet)

All Antenna Cables must be grounded to new or existing ground legs

Vendor to sign as acknowledgment of receipt and return with bid/RFP.
Signature: _____ Date:
Company Name (please print)_____