



**ALBUQUERQUE
PUBLIC SCHOOLS**

Accelerate Progress for Students

Rennette R. Apodaca, MPA, CPPO
EXECUTIVE DIRECTOR OF PROCUREMENT

Raquel Reedy
SUPERINTENDENT

**RFP NO. 17-071RR-RA
ADDENDUM #1**

April 7, 2017

Please note the following clarifications regarding the RFP:

- Questions and Answers.
- Corrected Appendix A & B.
- Schedule C Attachment Price Sheet.

ACKNOWLEDGE ADDENDUM WITH RFP:

Addenda not signed and returned may consider the RFP non-responsive and may be rejected.

COMPANY/FIRM NAME

SIGNATURE

DATE

Robert Russell, Senior Buyer

Questions and Answers
(RFP NO. 17-071RR-RA)

1. Question: Through-out the RFP there are confusing references to the Purchaser being APS, yet in other places it says State of New Mexico.

Answer: This RFP was issued by Albuquerque Public Schools. The Purchaser is Albuquerque Public Schools (APS).

2. Most of the schools listed in the scope of work have a statement that the Contractor is to provide all necessary cabling/ patch panels/ conduit/ tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. My question is: the contractors did not visit all these schools and the ones we did visit we didn't look in every MDF, IDF to determine if a patch panel was required or not. Are we to install a new CAT 6 patch panel in every closet where a new wireless CAT 6 cable is going into? There is no way to know where patch panels are needed and where they are not?

Answer: In the SoW you will find reference to "24 Port P/P" which refers to 24 port Patch Panel. To assist with the quantities needed, we have updated the summaries to reflect how many new CAT6 Patch Panel's will be needed for each site. Not all patch panels will be replaced. In cases where a patch panel is not specified, the existing patch panel will be used (most likely CAT5e). In this case testing to the lowest category is acceptable. The patch panels will be the responsibility of the cabling contractor.

3. I know there are 2 RFP's, one for cabling and for the electronics. It is my understanding that:

The vendor who is awarded the cabling will also be installing the wireless access points?

The vendor that is awarded the hardware will not be providing any services?

Answer: That is correct. The vendor who is awarded the cabling will be responsible for installing all electronics including the wireless access points, and the vendor award the hardware will not provide any services just the product.

4. The subject RFP references an Attachment C on page 23. Would you please let me know where I can get a copy of that attachment?

Answer: The Attachment C, will be posted to our website as an Addendum.

5. Questions pertaining to discrepancies in the SoW. The SoW has been updated. Corrected amounts are listed in the summary of each site in the **Cabling Addendum**. Changes in quantity are shown in **Bold RED** font. Below are responses to the specific questions.

Adobe Acres summary calls for Thirty (30) WAPs, but the breakout only requires 29. Also, the summary calls for sixty five (65) SX SFP's, but the breakout only requires 64.

Answer: Adobe Acres requires 30 WAPs and 64 SX SFP's and 1 24pt CAT6 Patch Panel. (see Cabling Addendum)

Alamosa summary calls for Twenty five (25) WAPs. Breakout is 26. Summary calls out ten (10) 24 Port switches. Breakout requires 11. Summary calls for seven (7) 48 port switches. Breakout requires 8. Summary calls for fifty one (51) SX SFP's. Breakout requires 48.

Answer: Alamosa requires 26 WAPs, 11 - 24pt Switch, 8 – 48pt switch, 44 SX SFP's and 4 - 24pt CAT6 Patch Panel. (see Cabling Addendum)

Arroyo Del Oso summary calls for two (2) 24 port switches. Breakout requires 1. Summary calls for five (5) 48 port switches. Breakout is 6.

Answer: Arroyo Del Oso requires 1- 24pt Switch, 6 – 48pt switch. (see Cabling Addendum)

Dolores Gonzales summary calls for fifty one (51) SX SFP's. Breakout is 48.

Answer: Dolores Gonzales requires 48 SX SFP's and 1 - 24pt CAT6 Patch Panel. (see Cabling Addendum)

Kirtland summary calls out eleven (11) 24 port switches. Breakdown requires 10. Summary calls for three (3) 48 port switches. Breakout requires 4. Summary calls for forty four (44) SX SFP's. Breakout requires 50.

Answer: Kirtland requires 7 - 24pt Switch, 4 – 48pt switch, and 1 - 24pt CAT6 Patch Panel. (see Cabling Addendum)

LA Luz summary calls for six (6) 24 port switches. Breakout requires 4. Summary has five (5) 48 port switches. Breakout requires 7. Summary calls for thirty nine (39) SX SFP's. Breakout requires 38.

Answer: La Luz requires 4 - 24pt Switch, 7 – 48pt switch, 38 SX SFP's and 2 - 24pt CAT6 Patch Panel. (see Cabling Addendum)

Lavaland summary calls for six (6) 24 port switches. Breakout requires 7. Summary calls for three (3) 48 port switches. Breakout requires 2. Summary calls for sixty four (64) SX SFP's. Breakout requires 63. Summary states zero (0) DC cables. Breakout requires 1.

Answer: Lavaland requires 7 - 24pt Switch, 2 – 48pt switch, 63 SX SFP's and 1 – DAC stacking cable (see Cabling Addendum)

Los Padillas summary calls for forty two (42) SX SFP's. Breakout requires 49.

Answer: Los Padillas requires 49 SX SFP's (see Cabling Addendum)

MacArthur summary calls for six (6) 24 port switches. Breakout requires 7. Summary calls for twenty seven (27) SX SFP's. Breakout calls for 25.

Answer: MacArthur requires 7 - 24pt Switch, 25 – SX SFP's, and 1 - 24pt CAT6 Patch Panel. (see Cabling Addendum)

Navajo summary calls for nine (9) 24 port switches. Breakout requires 3. Summary calls for six (6) 48 port switches. Breakout requires 12. Summary calls for forty eight (48) SX SFP's. Breakout requires 45. Summary calls for three (3) DC cables. Breakout requires 2.

Answer: Navajo requires 8 - 24pt Switch, 7 – 48pt switch, 45 – SX SFP's and 1 - 24pt CAT6 Patch Panel. (see Cabling Addendum)

Reginald Chavez summary calls for thirty four (34) SX SFP's. Breakout requires 36. Summary calls for three (3) TX SFP's. Breakout requires 7.

Answer: Reginald Chavez requires 36 – SX SFP's and 7 – TX SFP's. (see Cabling Addendum)

Rudolfo Anaya summary calls for forty nine (49) SX SFP's. Breakout requires 44.

Answer: Rudolfo Anaya requires 44 – SX SFP's (see Cabling Addendum)

School on Wheels summary calls for one (1) 24 port switch. Breakout requires 2. Summary calls for eight (8) SX SFP's. Breakout calls for 5. Summary calls for zero (0) DC cables. Breakout calls for 1.

Answer: School on Wheels requires 2 - 24pt Switch and 1 – DAC stacking cable (see Cabling Addendum)

Truman summary calls for twenty one (21) 24 port switches. Breakout calls for 22. Summary calls for ninety two (92) SX SFP's. Breakout requires 115. It looks like another SFP was left out of sub-IDF 8.03 as well. This would make it 116.

Answer: Truman requires 22 - 24pt Switch, 116 – SX SFP's and 2 - 24pt CAT6 Patch Panel. (see Cabling Addendum)

Wilson summary calls for six (6) 24 port switches. Breakout calls for 4. Summary calls for twelve (12) 48 port switches. Breakout requires 11. Summary calls for fifty (50) SX SFP's. Breakout requires 20.

Answer: Wilson requires 4 - 24pt Switch, 11 – 48pt switch, 20 – SX SFP's and 1 - 24pt CAT6 Patch Panel. (see Cabling Addendum)

Also, please note that Vision quest is noted on page 24 (Appendix A), but is left out of Appendix B on page 25. Is this school not part of the project?

Answer: Vison Quest has been removed from this project.

Does the Juvenile Detention Center have any special WAP mounting requirements? Possibly a cage or enclosure?

Answer: No, all WAPs will be wall mounted.

Tony Otero has rigged up a mount for the wireless enclosures. He displayed it at the pre-proposal. I am requesting that a parts list be provided so that we can quote accurately.

Answer: Components are listed below. The amount of Rigid conduit will vary upon installation.

- 1.) 2- 8456R Hanger Cover $\frac{3}{4}$ " 4sq box cover- Cut sheet attached
- 2.) 1- 10' IMC Rigid conduit
- 3.) 1- 4 sq extension box $\frac{1}{2}$ " to $\frac{3}{4}$ " KO
- 4.) 2- beam Clamps

Albuquerque Public Schools Cabling Infrastructure Addendum

Changes in Scope of Work / quantity are shown in **BOLD RED**

APPENDIX A

School	WAPs Needed	Existing SoW
Adobe Acres ES	30	5065/5248
Alamosa ES	26	4997/5242
Arroyo Del Oso ES	17	5066
Collet Park ES	15	4845
Dolores Gonzales ES	11	4999/5262
Juvenile Detention Center	11	5264
Kirtland ES	23	5072
La Luz ES	19	5074/5244
Lavaland ES	27	5075/5250
Los Padillas ES	14	5076/5247
MacArthur ES	16	4998
Navajo ES	26	5078
Reginald Chavez ES	13	5080/5263
Rudolfo Anaya ES	38	5081
San Antonito ES	17	5238
School on Wheels	5	5000
Truman MS	54	5253 - 5256
Wilson MS	16	5236

TOTAL

378

APPENDIX B

Scope of Work for Each Site

Contents

Adobe Acres ES	3
Alamosa ES.....	5
Arroyo Del Oso ES	6
Collet Park ES	7
Dolores Gonzales ES.....	9
Juvenile Detention Center	11
Kirtland ES	12
La Luz ES.....	14
Laland ES	15
Los Padillas ES	17
MacArthur ES	19
Navajo ES.....	20
Reginald Chavez ES	22
Rudolfo Anaya ES	23
San Antonito ES.....	24
School on Wheels.....	26
Truman MS.....	27
Wilson MS	30

Adobe Acres ES

Electronics Summary

Fan Kits	16
HP 560 WAPs	30
Fiber Switch	2
24pt Switch	11
48pt Switch	6
SX SFP's	64
TX SFP's	3
DAC cables	0
CAT6 24 Port Patch Panel (P/P)	1

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5065 / 5248

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Cabling Standards as follows –

(MDF): Install 1 - Fiber Switch, 15 - SX SFP's, 3 - TX SFP's, 1 - 24 Port POE+ Copper Switch, 1 - SX SFP, 12 - Patch Cords, Remove 3Com 4500G-48; Lounge: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 1.01): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 47 - 2' Patch Cords, 1 - Fan Kit;
Conf. Rm (113): Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 1.02): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 47 - 2' Patch Cords, 1 - Fan Kit;
Comp. Lab: Install 1 - Data Drop, 1 - HP 560 WAP;

(IDF 2.0): Install 1 - Fiber Switch, 18 - SX SFP's, 4 - Patch Cords;

(Sub-IDF 2.02): Install 9 - 2' Patch Cords; Cl Rm C-12: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 2.04): Install 9 - 2' Patch Cords; Cl Rm C-14: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 2.05): Install 9 - 2' Patch Cords; Cl Rm C-15: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 2.06): Install 9 - 2' Patch Cords; Cl Rm C-16: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 2.07): Install 9 - 2' Patch Cords; Cl Rm C-17: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 3.01): Install 1 - 24 Port POE+ Copper Switch, 1 - SX SFP, 12 - 2' Patch Cords, 1 - Fan Kit;

(IDF 4.0): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 42 - 2' Patch Cords, 1 - Fan Kit; Library:
Install 1 - Data Drop, 1 - HP 560 WAP at north end;

(IDF 6.0): Install 1 - 24 Port POE+ Copper Switch, 3 - SX SFP's, 13 - 2' Patch Cords, 1 - Fan Kit; CI Rm
16: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 6.02): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 1 - 24 Port P/P, 26 - 2' Patch Cords,
1 - Fan Kit; CI Rm's 13 and 15: Install 1 - Data Drop, 1 - HP 560 WAP in each;

(IDF 7.0): Install 1 - 24 Port POE+ Copper Switch, 4 - SX SFP's, 13 - 2' Patch Cords, 1 - Fan Kit; CI Rm 7:
Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 7.01): Install 9 - 2' Patch Cords; CI Rm 5: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 7.02): Install 9 - 2' Patch Cords; CI Rm 6: Install 1 - Data Drop, 1 - HP 560 WAP;

(IDF 8.0): Install 1 - 24 Port POE+ Copper Switch, 4 - SX SFP's, 13 - 2' Patch Cords, 1 - Fan Kit; CI Rm
4: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 8.02): Install 9 - 2' Patch Cords; CI Rm 1: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 8.03): Install 9 - 2' Patch Cords; CI Rm 2: Install 1 - Data Drop, 1 - HP 560 WAP;

(IDF 9.0): Install 1 - 24 Port POE+ Copper Switch, 4 - SX SFP's, 13 - 2' Patch Cords, 1 - Fan Kit; CI Rm
12: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 9.01): Install 9 - 2' Patch Cords; CI Rm 11: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 9.02): Install 9 - 2' Patch Cords; CI Rm 9: Install 1 - Data Drop, 1 - HP 560 WAP;

(IDF 10.0): Install 1 - 24 Port POE+ Copper Switch, 4 - SX SFP's, 13 - 2' Patch Cords, 1 - Fan Kit; CI Rm
20: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 10.01): Install 9 - 2' Patch Cords; CI Rm 19: Install 1 - Data Drop, 1 - HP 560 WAP;

(Sub-IDF 10.03): Install 9 - 2' Patch Cords; CI Rm 18: Install 1 - Data Drop, 1 - HP 560 WAP;

(IDF 11.0): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 36 - 2' Patch Cords, 1 - Fan Kit;
Art/Music Rm: Install 1 - Data Drop, 1 - HP 560 WAP;

(IDF 12.0): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 30 - 2' Patch Cords, 1 - Fan Kit;

Portable (NMD-001); Install 1 - Data Drop, 1 - HP 560 WAP;

(4) Portables (D-461), (D-475), (D-476) and (DP- 5); Install 1 - 24 Port POE+ Copper Switch, 1 - SX SFP,
24 - 2' Patch Cords, 1 - Fan Kit, 1 - Data Drop, 1 - HP 560 WAP in each;

Update As-Builts.

Provide cabling test results

Alamosa ES

Electronics Summary

Fan Kits	7
HP 560 WAPs	26
Fiber Switch	2
24pt Switch	11
48pt Switch	8
SX SFP's	44
TX SFP's	3
DAC cables	4
CAT6 24 Port Patch Panel (P/P)	4

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 4997/5242

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Cabling Standards as follows –

(MDF): Install 2 - Fiber Switches, 34 - SX SFP's, 3 - TX SFP's, 1 - 24 Port POE+ Copper Switch, 23 - Patch Cords;

(IDF 2.0): Install 1 - 24 Port POE+ Copper Switch, 1 - SX SFP, 19 - 2' Patch Cords, Install 1 - Fan Kit;

(IDF 3.0): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 43 - 2' Patch Cords, Install 1 - Fan Kit; Admin: Install 1 - Data Drop, 1 - HP560 WAP;

(IDF 4.0) Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 46 - 2' Patch Cords, 1 - Fan Kit; CI Rm's 1, 2 and 4: Install 1 - Data Drop, 1 - HP 560 WAP in each;

(IDF 5.0): Install 2 - 48 Port POE+ Copper Switches, 1 - 24 Port POE+ Copper Switch, 1 - SX SFP, 2 - D/C Cables, Replace 12 Port P/P with 1 – 24 Port P/P, 109 - Patch Cords; CI Rm's 9, 11 and 12: Install 1 - Data Drop, 1 - HP 560 WAP in each;

(IDF 6.0): Install 1 - 48 Port POE+ Copper Switch, 1 - 24 Port POE+ Copper Switch, 1 - SX SFP, 1 – D/C Cable, 1 - 24 Port P/P, 50 - 2' Patch Cords, 1 - Fan Kit; CI Rm's 5, 6 and 7: Install 1 - Data Drop, 1 - HP 560 WAP in each;

(IDF 7.0): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 46 - 2' Patch Cords, Install 1 - Fan Kit; CI Rm's 13, 14 and 15: Install 1 - Data Drop, 1 - HP 560 WAP in each

(IDF 8.0): Install 1 - 48 Port POE+ Copper Switch, 1 - 24 Port POE+ Copper Switch, 1 - SX SFP, 1 – D/C Cable, 1 - 24 Port P/P, 51 - 2' Patch Cords, 1 - Fan Kit; CI Rm's 18, 19 and 20: Install 1 - Data Drop, 1 - HP 560 WAP in each;

(IDF 9.0): Install 1 - 24 Port POE+ Copper Switch, 1 - SX SFP, 11 - 2' Patch Cords, Install 1 - Fan Kit;

(IDF 10.0): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 1 - 24 Port P/P, 24 - 2' Patch Cords; CI Rm's B, D, F, Art/Music and Work Rm: Install 1 - Data Drop, 1 - HP 560 WAP in each;

(5) Portables (D-81), (D-232), (D-427), (D-477) and (D-478): Install 1 - 24 Port POE+ Copper Switch, 1 - SX SFP, 24 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in each;

Update As-Built - (Add Room Numbers).

Provide cabling test result

Arroyo Del Oso ES

Electronics Summary

HP 560 WAPs	17
Fiber Switch	1
24pt Switch	1
48pt Switch	6
SX SFP's	26
TX SFP's	3
DAC cables	1
CAT6 24 Port Patch Panel (P/P)	0

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5066

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows –

(MDF/2.0): Install 1 - Fiber Switch, 18 - SX SFP's, 3 - TX SFP's, 2 - 48 Port POE+ Copper Switches, 1 - SX

SFP, 1 - D/C Cable, 72 - Patch Cords; Lounge: Install 1 - HP 560 WAP;

(IDF 3.0): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 30 - 2' Patch Cords; CI Rm's 1, 3, 4 and 5; Install 1 - Data Drop, 1 - HP 560 WAP in each;

(IDF 4.0): Install 1 - 24 Port POE+ Copper Switch, 3 - SX SFP's, 15 - 2' Patch Cords; RK207: Install 1 - Data Drop, 1 - HP 560 WAP;

(IDF 5.0): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 33 - 2' Patch Cords; CI Rm's 7, 9, 10 and 12: Install 1 - Data Drop, 1 - HP 560 WAP in each;

(IDF 6.0): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 35 - 2' Patch Cords;

(IDF 7.0): Install 1 - 48 Port POE+ Copper Switch, 1 - SX SFP, 36 - 2' Patch Cords; CI Rm's 14, 15, 16, 18, 19 and 20: Install 1 - Data Drop, 1 - HP 560 WAP in each;

(Portable DF-61): Install 1 - Data Drop, 1 - HP 560 WAP;

Update As-Builts.

Provide cabling test results

Collet Park ES

Electronics Summary

HP 560 WAPs	15
Fiber Switch	1
24pt Switch	8
48pt Switch	6
SX SFP's	23
TX SFP's	3
DAC cables	3
CAT6 24 Port Patch Panel (P/P)	0

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 4845

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows -

(MDF): Install 1 - Fiber Switch, 12 - SX SFP's, 3 - TX SFP's, 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 - D/C Cable, 36 - 2' Patch Cords;

(IDF 2.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 20 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm's 303 and 304;

(IDF 3.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 35 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 301;

(IDF 4.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 40 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm's 306, 307, 309, 310, 312, and 313;

(IDF 5.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 7 - 2' Patch Cords; (IDF 6.0): Install 2 - 48 Port POE+ Copper Sw's, 1 - SX SFP, 1 - D/C Cable, 67 - Patch Cords;

(IDF 7.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 20 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm's 105 and 107;

(IDF 8.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 20 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm's 202 and 204;

(IDF 9.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 20 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm's 101 and 104;

(IDF 10.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 5 - 2' Patch Cords;

(IDF 11.0): Install 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 - D/C Cable, 70 - Patch Cords; (15 Total WAP's)

Update As-Builts.

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

Dolores Gonzales ES

Electronics Summary

HP 560 WAPs	11
Fiber Switch	2
24pt Switch	17
48pt Switch	6
SX SFP's	48
TX SFP's	3
DAC cables	3
CAT6 24 Port Patch Panel (P/P)	1

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 4999/5262

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows –

(MDF): Install 1 - Fiber Switch, 20 - SX SFP's, 3 - TX SFP's, 2 - 48 Port POE+ Copper Sw's, 1 - SX SFP, 1 - D/C cable, 88 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Workroom;

(Sub-IDF 1.01): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords,

(Sub-IDF 1.02): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 12;

(Sub-IDF 1.03): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords,

(Sub-IDF 1.04): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 10;

(Sub-IDF 1.05): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords, (IDF 2.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 6 - 2' Patch Cords;

(Sub-IDF 2.01): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm RP123;

(Sub-IDF 2.02): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 9;

(IDF 3.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP CI Rm 8;

(Sub-IDF 3.01): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 19 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 6;

(IDF 4.0): Install 1 - Fiber Switch, 8 - SX SFP's, 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 - D/C Cable, 39 - Patch Cords;

(Sub-IDF 4.01): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords;

(Sub-IDF 4.04): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 1A;

(Sub-IDF 4.05): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords;

(Sub-IDF 4.07): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP CI Rm 4A;

(IDF 5.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 11 - 2' Patch Cords;

(IDF 6.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 1 - 24 Port P/P, 25 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP Lounge;

(IDF 7.0): Install 2 - 48 Port POE+ Copper Sw's, 1 - SX SFP, 1 - D/C Cable, 50 - Patch Cords; Portable (D-344):

Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 24 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP; (11 Total WAP's)

Update As-Builts.

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

Juvenile Detention Center

Electronics Summary

HP 560 WAPs	11
Fiber Switch	0
24pt Switch	0
48pt Switch	3
SX SFP's	3
TX SFP's	0
DAC cables	0
CAT6 24 Port Patch Panel (P/P)	0

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5264

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows –

(MDF): Install 3 - 48 Port POE+ Copper Sw's, 3 - SX SFP's, 11 - Data Drops, 11 - HP 560 WAP's in designated locations, 96 - Patch Cords; (11 Total WAP's)

Update As-Builts.

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

Kirtland ES

Electronics Summary

HP 560 WAPs	23
Fiber Switch	3
24pt Switch	7
48pt Switch	4
SX SFP's	44
TX SFP's	5
DAC cables	0
CAT6 24 Port Patch Panel (P/P)	1

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5072

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows –

(MDF): Install 1 - Fiber Switch, 16 - SX SFP's, 5 - TX SFP's, 5 - Patch Cords; (Sub-IDF 1.01): Install 1 – 24 Port POE+ Copper Sw, 1 - SX SFP, 12 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 2;

(Sub-IDF 1.02): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 1;

(Sub-IDF 1.03): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 3;

(Sub-IDF 1.04): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 5;

(Sub-IDF 1.06): Install 1 - 48 Port POE+ Copper Sw, 1 – SX SFP, 37 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Comp. Lab;

(IDF 2.0): Install 1 - 24 Port POE+ Copper Sw, 4 - SX SFP's, 12 - Patch Cords in Rm 8;

(Sub-IDF 2.01): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 10;

(Sub-IDF 2.02): Install 9 - Patch Cords, 1 - Data Drop, 1 – HP 560 WAP in Rm 12;

(Sub-IDF 2.03): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 14;

(IDF 3.0): Install 1 - 24 Port POE+ Copper Sw, 4 - SX SFP's, 8 - Patch Cords;

(Sub-IDF 3.01): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 9;

(Sub-IDF 3.03): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 13;

(IDF 4.0): Install 1 - Fiber Switch, 10 – SX SFP's, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 20 - Patch Cords;

(Sub-IDF 4.01): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 1 - 24 Port P/P, 26 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rms 20 and 21;

(Sub-IDF 4.03): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 18;

(Sub-IDF 4.04): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 17;

(Sub-IDF 4.05): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 15

(IDF 5.0): Install new Holocom Lock, 1 - 24 Port POE Copper Sw, 1 - SX SFP, 15 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rms A and D;

(IDF 6.0): Install 1 - Fiber Switch, 4 - SX SFP's, 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 24 - Patch Cords;

(Sub-IDF 6.01): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 26 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Admin;

(Sub-IDF 6.02): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 23 - Patch Cords; Portable (D-392):

Install 6 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP;
Portables (D-140), (D-219), (D-292), (D-65):

Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 23 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in each;

Blank off unused ports on 5400 molding; (23 Total WAP's)

Replace 2X4 APW cabinets with 2X4 CPI cabinets in IDF 4.0 and 6.0;

Update As-Builts –

(Re-Label existing WAPs to APS Standards)

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

La Luz ES

Electronics Summary

HP 560 WAPs	19
Fiber Switch	3
24pt Switch	4
48pt Switch	7
SX SFP's	38
TX SFP's	3
DAC cables	2
CAT6 24 Port Patch Panel (P/P)	2

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5074/5244

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows –

(MDF): Install 1 - Fiber Switch, 12 - SX SFP's, 3 - TX SFP's, 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 26 - Patch Cords;

(Sub-IDF 1.01): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 26 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 3 ;

(Sub-IDF 1.02): Install 8 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 2;

(Sub-IDF 1.03): Install 9 - 2' Patch Cords, 1 – Data Drop, 1 - HP 560 WAP in CI Rm 4;

(Sub-IDF 1.05): Install 1 - 48 Port POE+ Copper Sw, 1 – SX SFP, 1 - 24 Port P/P, 27 - 2' Patch Cords, 1 – Data Drop, 1 - HP 560 WAP in CI Rm's 5 and 7;

(Sub- IDF 1.06): Install 8 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 8;

(Sub-IDF 1.07): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Mini Lab;

(IDF 2.0): Install 1 – Fiber Switch, 9 - SX SFP's, 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 - D/C Cable, 60 - Patch Cords;

(Sub-IDF 2.01): Install 8 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 10;

(Sub-IDF 2.03): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 12;

(Sub-IDF 2.04): Install 8 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 13;

(Sub-IDF 2.05): Install 1 - 48 Port POE+ Copper Sw, 1 – SX SFP, 37 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Admin and Lounge;

(IDF 3.0): Install 1 - Fiber Switch, 7 - SX SFP's, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 18 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 17;

(Sub- IDF 3.01): Install 8 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 16;

(IDF 4.0): Install 1 - 24 Port POE+ Copper Sw, 2 - SX SFP's, 18 - 2' Patch Cords,

(Sub-IDF 4.01): Install 8 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Gym Office;

(IDF 5.0): Remove 3Com 5500 SFP Switch, Install 2 - 48 Port POE+ Copper Sw's, 1 - SX SFP, 1 - D/C Cable, 1 - 24 Port P/P, 84 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 22, 25, 26 and 27; (19 Total WAP's)

Replace 2X4 APW cabinet with 2X4 CPI Cabinet in IDF 2.0;

Update As-Builts - (Add Room Numbers).

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

Lavaland ES

Electronics Summary

HP 560 WAPs	27
Fiber Switch	4
24pt Switch	7
48pt Switch	2
SX SFP's	63
TX SFP's	3
DAC cables	1
CAT6 24 Port Patch Panel (P/P)	0

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5075/5250

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows –

(MDF): Install 1 - Fiber Switch, 18 - SX SFP's, 3 - TX SFP's, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 8 - Patch Cords;

(Sub-IDF 1.01): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 99;

(Sub-IDF 1.03): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 97;

(Sub-IDF 1.04): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 96;

(Sub-IDF 1.05): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 102;

(Sub-IDF 1.06): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 100;

(Sub-IDF 1.07): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Lounge;

(Sub-IDF 1.08): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 38 - 2' Patch Cords;

(Sub-IDF 1.09): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 101;

(Sub-IDF 1.11): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 108;

(Sub-IDF 1.12): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 105;

(Sub-IDF 1.14): Install 9 - 2' Patch Cords, 1 – Data Drop, 1 - HP 560 WAP in CI Rm 95;

(IDF 3.0): Install 1 - Fiber Switch, 5 - SX SFP's, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 31 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Nurse's Office;

(Sub-IDF 3.02): Install 1 - Fiber Switch, 17 - SX SFP's, 1 - 48 Port POE+ Copper Sw, 1 – 24 Port POE+ Copper Sw, 1- SX SFP, 1 - D/C Cable, 46 - Patch Cords;

(IDF-4.0): Install 1 – Fiber Switch, 15 - SX SFP's;

(Sub-IDF 4.01): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 106;

(Sub-IDF 4.02): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 110;

(Sub-IDF4.03): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 111;

(Sub-IDF 4.05): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 113;

(Sub-IDF 4.06): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 114;

(Sub-IDF 4.07): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 116;

(Sub-IDF 4.08): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 117;

(Sub-IDF 4.12): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 115;

(Sub-IDF 4.13): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 109;

Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Potables D-513, D-514 and E-41;

Install 1 – 24 Port POE+ Copper Sw, 1 - SX SFP, 24 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Potables D-158, D-226, D-86, D-44; (27 Total WAP's)

Replace 2X4 APW cabinets with 2X4 CPI Cabinets in IDF's 3.0, 3.02 and 4.0;

Update As-Builts - (Check Room Numbers).

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

Los Padillas ES

Electronics Summary

HP 560 WAPs	14
Fiber Switch	4
24pt Switch	3
48pt Switch	3
SX SFP's	49
TX SFP's	3
DAC cables	0
CAT6 24 Port Patch Panel (P/P)	0

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW

SoW 5076/5247

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows –

(MDF): Install 1 - Fiber Switch, 9 - SX SFP's, 3 - TX SFP's, 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 24 - Patch Cords;

(IDF 2.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 42 - Patch Cords, 1 – Data Drop, 1 - HP 560 WAP in Principal's Office, Remove 3Com 5500G SFP Switch;

(IDF 3.0): Install 1 - 24 Port POE+ Copper Sw, 4 - SX SFP's, 13 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in
CI Rm 1;

(Sub-IDF 3.01): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 2;

(Sub-IDF 3.03): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 4;

(IDF 4.0): Install 1 - 24 Port POE+ Copper Sw, 3 - SX SFP's, 13 - 2' Patch Cords, 1 - Data Drop, 1 – HP 560 WAP in CI Rm 5;

(Sub-IDF 4.02): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 7;

(IDF 5.0): Install 1 - Fiber Switch, 17 - SX SFP's, 9 - Patch Cords;

(IDF 6.0): Install 1 - Fiber Switch, 6 - SX SFP's, 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 41 – Patch Cords;

(Sub-IDF 6.01): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 12;

(Sub-IDF 6.02): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 10;

(Sub-IDF 6.04): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 8;

(IDF 7.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 15 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's RMK-2, RMK-3 and Commons;

(IDF 8.0): Install 1 - Fiber Switch, 6 - SX SFP's;

(Sub-IDF 8.02): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 15;

(Sub-IDF 8.04): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 17;

(14-WAP's Total)

Update As-Builts.

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

MacArthur ES

Electronics Summary

HP 560 WAPs	16
Fiber Switch	2
24pt Switch	7
48pt Switch	4
SX SFP's	25
TX SFP's	3
DAC cables	2
CAT6 24 Port Patch Panel (P/P)	1

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 4998

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows -

(MDF): Install 1 - Fiber Switch, 8 - SX SFP's, 3 - TX SFP's, 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 28 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 110 and 112;

(IDF 2.0): Install 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 - D/C Cable, 1 - 24 Port P/P, 48 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Lounge, CI Rm's 101, 102, 103 and 105;

(IDF 3.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 33 - 2' Patch Cords, Remove HP 2520 Switch;

(IDF 4.0): Install 1 - Fiber Switch, 7 - SX SFP's, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 12 - Patch Cords;

(IDF 5.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 21 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 201, 203 and 204;

(IDF 6.0): Install 1 - 24 Port POE+ Copper Sw, 2 - SX SFP's, 8 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 206 and 208;

(IDF 7.0): Install 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 - D/C Cable, 59 - 2'

Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 209 and 211;

(Portable D-498): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 24 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP;

(Portable D-212): Install 1 - Data Drop, 1 - HP 560 WAP;

(Portable SC -315): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - Patch Cords; (16 Total WAP's)

Update As-Builts –

Add Room Numbers.

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

Navajo ES

Electronics Summary

HP 560 WAPs	26
Fiber Switch	2
24pt Switch	8
48pt Switch	7
SX SFP's	45
TX SFP's	3
DAC cables	3
CAT6 24 Port Patch Panel (P/P)	0

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5078

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows –

(MDF): Install 1 - Fiber Switch, 11 - SX SFP's, 3 - TX SFP's, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 6 - Patch Cords;

(Sub-IDF 1.02): Install 8 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 1B;

(Sub-IDF 1.03): Install 8 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 1C;

(IDF2.0): Install 2 - 48 Port POE+ Copper Sw's, 1 - SX SFP, 1 - D/C Cable, 81 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Admin Hallway;

(IDF 3.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 30 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 4A, 4C, 4D, 5A and 5C;

(Sub-IDF 3.01): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 45 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 6A, 6B, 6C and Pre-K;

(IDF 4.0): Install 1 - Fiber Switch, 21 - SX SFP's, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 15 - Patch Cords;

(IDF 5.0): Install 2 - 48 Port POE+ Copper Sw's, 1 – SX SFP, 1 - DC Cable, 95 - Patch Cords;

(IDF 6.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 23 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 7 and 9;

(Sub-IDF 6.01): Install 1 – 24 Port POE+ Copper Sw, 1 - SX SFP, 16 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 2, 3 and 5; Install 1 - Data Drop, 1 - HP 560 WAP in Portables D-530, D-531, D-532 and D-533;

Install 1 - **24 Port POE+ Copper Sw, (SW per Portable: 5 SW's total)** 1 - SX SFP, 24 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Portables D- 131, D-185, D-24, D-27, D-30; (26 - WAP's Total)

Update As-Builts & Room Numbers.

Contractor to provide all necessary conduit / tray pathways required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

Reginald Chavez ES

Electronics Summary

HP 560 WAPs	14
Fiber Switch	4
24pt Switch	4
48pt Switch	6
SX SFP's	36
TX SFP's	7
DAC cables	3
CAT6 24 Port Patch Panel (P/P)	0

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5080/5263

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows –

(MDF): Install 1 - Fiber Switch, 6 - SX SFP's, 4 - TX SFP's, 6 - Patch Cords; (IDF 2.0): Install 1 - Fiber Switch, 9 - SX SFP's, 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 - D/C Cable, 49 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Lounge and Nurse's Office;

(Sub-IDF 2.01): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 101;

(Sub-IDF 2.02): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 103;

(Sub-IDF 2.03): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 105;

(Sub-IDF 2.04): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 107;

(Sub-IDF 2.05): 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 14 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 100 and 102;

(Sub-IDF 2.06): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 24 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 106;

(IDF 3.0): Install 1 - Fiber Switch, 7 - SX SFP's, 3 - TX SFP's, 3 - Patch Cords;

(Sub-IDF 3.01): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 19 – Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 206;

(Sub-IDF 3.02): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 205;

(Sub-IDF 3.03): Install 1 - Fiber Switch, 7 - SX SFP's, 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 204;

(Sub-IDF 3.05): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 202;

(Sub-IDF 3.06): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 201;

(IDF 6.0): Install 3 - 48 Port POE+ Copper Sw, 1 - SX SFP, 2 - D/C Cables;

(IDF 7.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP;

(IDF 8.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP; (14Total WAP's)

Update As-Builts.

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

Rudolfo Anaya ES

Electronics Summary

HP 560 WAPs	38
Fiber Switch	2
24pt Switch	4
48pt Switch	10
SX SFP's	44
TX SFP's	3
DAC cables	5
CAT6 24 Port Patch Panel (P/P)	0

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5081

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows -

(MDF): Install 1 - Fiber Switch, 15 - SX SFP's, 3 - TX SFP's 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 - D/C Cable, 47 - Patch Cords;

(Sub-IDF 1.01): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 36 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Comp. Lab;

(IDF 2.0): Install 2 - 48 Port POE+ Copper Sw's, 1 - SX SFP, 1 - D/C Cable, 90 - Patch Cords, 1 – Data Drop, 1 - HP 560 WAP in CI Rm's 144, 145, 146, 148, 149, 152, 153, 155, 156, 158 and 159;

(IDF 3.0): Install 1 - Fiber Switch, 20 - SX SFP's, 3 - 48 Port POE+ Copper Sw's, 1 - SX SFP, 2 - D/C Cables, 139 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 42, 42A, 43, 44, 47, 48, 49, 52, 54, 55, 57, 58 and 59;

(IDF 4.0): Install 2 - 48 Port POE+ Copper Sw's, 1 - SX SFP, 1 - D/C Cable, 80 – Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Admin and Parent Rm;

(IDF 5.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 45 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 123, 127, 128,130 and 133; Install 1 - Data Drop, 1 - HP 560 WAP in Portables D-312, D-366, D-34;

Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 24 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Portables D-207, D-306 and D-184; (38 Total WAP's)

Update As-Builts.

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

San Antonito ES

Electronics Summary

HP 560 WAPs	17
Fiber Switch	1
24pt Switch	5
48pt Switch	6
SX SFP's	17
TX SFP's	3
DAC cables	3
CAT6 24 Port Patch Panel (P/P)	2

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5238

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows –

(MDF): Install 1 - Fiber Switch, 9 - SX SFP's, 3 - TX SFP's, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP , 21 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Lounge;

(IDF 2.0): Install 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 - D/C Cable, 61 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm's 1, 3, 4 and 6;

(IDF 3.0): Install 1 - 24 Port POE+ Copper Sw, 1 – SX SFP, 24 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Admin;

(IDF 4.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 40 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 10;

(IDF 5.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords, 1 – Data Drop, 1 - HP 560 WAP in Cafeteria;

(IDF 7.0): Install 2 - 48 Port POE+ Copper Sw's, 1 – SX SFP, 1 - D/C Cable, 1 - 24 Port P/P, 72 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm's 103, 104, 105 and 106;

(IDF 8.0): Install 2 - 48 Port POE+ Copper Sw's, 1 - SX SFP, 1 - DC Cable, 1 - 24 Port P/P, 73 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm's 202, 203, 204, 205 and 208;

(Portable SC-247): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 13 - 2' Patch Cords, (17 Total WAP's)

Update As-Builts.

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

School on Wheels

Electronics Summary

HP 560 WAPs	6
Fiber Switch	0
24pt Switch	2
48pt Switch	4
SX SFP's	8
TX SFP's	0
DAC cables	1
CAT6 24 Port Patch Panel (P/P)	0

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5000

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows –

(MDF): Install 1 - 48 Port POE+ Copper Sw, **4 - SX SFP**, 32 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm's 104, 106 and 107;

(IDF 2.0): Install 1 - 48 Port POE+ Copper Sw, 1 – SX SFP, 41 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 109;

(IDF 3.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 41 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in CI Rm 110;

(IDF 4.0): Install 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 26 - 2' Patch Cords, 1 D/C Cable, 1 - Data Drop, 1 - HP 560 WAP in Shop;

(D-338): Install 1 – 24 Port POE+ Copper Sw, 1 - SX SFP, 20 - 2' Patch Cords; (6 Total WAP's)

Update As-Builts.

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installation that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

Truman MS

Electronics Summary

HP 560 WAPs	57
Fiber Switch	6
24pt Switch	22
48pt Switch	14
SX SFP's	116
TX SFP's	3
DAC cables	6
CAT6 24 Port Patch Panel (P/P)	2

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5253-5256

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows – (MDF): Install 1 - Fiber Switch, 23 - SX SFP's, 3 - TX SFP's, 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 1 - 24

Port POE+ Copper Sw, 1 - DC Cable, 54 - Patch Cords;

(Sub-IDF 1.02): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 207;

(Sub-IDF 1.03): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 206;

(Sub-IDF 1.04): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 205;

(Sub-IDF 1.05): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 1 - 24 Port POE+ Copper Sw, 1 - DC Cable, 54 - 2' Patch Cords;

(Sub-IDF 1.06): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 109;

(Sub-IDF 1.07): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 110;

(Sub-IDF 1.08): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 200;

(IDF 3.0): Install 1 - Fiber Switch, 7 - SX SFP's, 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 25 - Patch Cords;

(Sub-IDF 3.01): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 1 - 24 Port POE+ Copper Sw, 1 - DC Cable, 63 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Admin;

(Sub-IDF 3.02): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Lounge;

(Sub-IDF 3.04): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 28 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Work Rm;

(IDF 4.0): Install 1 - Fiber Switch, 8 - SX SFP's, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 10 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Chorus Rm;

(Sub-IDF 4.01): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Band Rm; (Sub-IDF 4.02): Install 9 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 302;

(Sub-IDF 4.03): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 43 - 2' Patch Cords;

(Sub-IDF 4.04): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 15 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 301;

(Sub-IDF 4.05): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 19 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 303;

(IDF 5.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 6 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP (2 WAPs) in Boy's Office and Girl's Office;

(Sub-IDF 5.01): Install 1 - Fiber Switch, 8 - SX SFP's, 8 - 2' Patch Cords;

(IDF 6.0): Install 2 - Fiber Switches, 34 - SX SFP's, 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 24 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 108;

(Sub-IDF 6.01): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 25 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP (2 WAPs) in Rm 105 and Rm 106;

(Sub-IDF 6.03): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 102;

(Sub-IDF 6.04): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 101;

(Sub-IDF 6.05): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 103;

(IDF 7.0): Install 1 - 24 Port POE+ Copper Sw, 3 -SX SFP's, 13 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 201;

(Sub-IDF 7.02): 1 - 24 Port POE+ Copper Sw, 1 -SX SFP, 13 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 111;

(Sub-IDF 7.03): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 202;

(IDF 8.0): Install 1 - 24 Port POE+ Copper Sw, 4 -SX SFP's, 22 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 204;

(Sub-IDF 8.01): Install 9 - Patch Cords, 1 – Data Drop, 1 - HP 560 WAP in Rm 203;

(Sub-IDF 8.02: Install 9 - Patch Cords, 1 - Data Drop, 1 – HP 560 WAP in Rm 113;

(Sub-IDF 8.03): Install 1 - 48 Port POE+ Copper Sw, **1-SX SFP's**, 40 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 114;

(IDF 9.0): Install 1 - 48 Port POE+ Copper Sw, 1 – SX SFP, 42 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 213;

(Sub-IDF9.01): Install 9 – Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 214;

(Sub-IDF 9.02): Install 9 - Patch Cords, 1 -Data Drop, 1 - HP 560 WAP in Rm 215;

(IDF 10.0): Install 1 - 24 Port POE+ Copper Sw, 1 – SX SFP, 13 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 209;

(Sub-IDF 10.01): Install 9 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 210;

(Sub-IDF 10.02): Install 9 – Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 211;

(IDF 11.0): Install 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 - DC Cable, 1 - 24 Port P/P, 53 - Patch Cords, 1 – Data Drop, 1 - HP 560 WAP (4 WAPs) in Rm's 402, 403, 404, and 407;

(Sub-IDF 11.01): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 1 - DC Cable, 43 - Patch Cords;

(Sub-IDF 11.02): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 47 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm 408B;

(IDF 12.0): Install 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 – DC Cable, 1 - 24 Port P/P, 53 - Patch Cords, 1 - Data Drop, 1 - HP 560 WAP(5 WAPs) in Rm's 422, 423, 424, 426 and 428;

Install 1 - Data Drop, 1 - HP 560 WAP(12 WAPs) in Potables D-510, D-145, E-26, D-227, E-47, E-43, D-348, D-106, D-202, D-382, LD-4 and LD-5;

Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 24 - 2' Patch Cords in Portables D-106, D-145, D-227, D-348, D-382, D-510, E-26, E-43 and E-47 (57 Total WAP's)

Update As-Builts (Correct Room Numbers).

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations, that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

Wilson MS

Electronics Summary

HP 560 WAPs	16
Fiber Switch	1
24pt Switch	4
48pt Switch	11
SX SFP's	20
T X SFP's	3
DAC cables	7
CAT6 24 Port Patch Panel (P/P)	1

Contractor to provide all necessary cabling / patch panels / conduit / tray pathways, etc. where required for cabling installations that includes complying with fire blocking requirements per code. (Refer to APS IT cabling standards)

Note: Electronics and Configuring to be provided by APS IT Networking team, vendor will need to Coordinate with APS IT Networking team for distribution of electronics as per listed in the SoW below.

SoW 5236

Upgrade Wireless Network (Uniprise Cat 6) to each classroom per District Standards as follows – (MDF): Install 1 - Fiber Switch, 11 - SX SFP's, 3 - TX SFP's, 3 - 48 Port POE+ Copper Sw's, 1 - SX SFP, 2 D/C Cables;

(IDF 2.0): Install 2 - 48 Port POE+ Copper Sw's, 1 - 24 Port POE+ Copper Sw, 1 – SX SFP, 2 D/C Cables;

(IDF 3.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP;

(IDF 4.0): Install 2 - 48 Port POE+ Copper Sw's, 1 - SX SFP, 1 D/C Cable;

(IDF 5.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP;

(IDF 7.0): Install 1 - 24 Port P/P, 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 D/C Cable, 59 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm's 501, 502, 504, 505, 506, 509, 511, 515 and 519;

(IDF 8.0): Install 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 10 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP, 1 - WAP Enclosure in Gym;

(IDF 9.0): Install 1 - 48 Port POE+ Copper Sw, 1 - 24 Port POE+ Copper Sw, 1 - SX SFP, 1 D/C Cable, 60 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Chorus Rm;

(IDF 10.0): Install 1 - 48 Port POE+ Copper Sw, 1 - SX SFP, 35 - 2' Patch Cords, 1 - Data Drop, 1 - HP 560 WAP in Rm's 302, 304, 306, 308, and Prep Rm; (16 Total WAP's)

Update As-Builts.

Note: Contractor to provide all necessary conduit / tray pathways where required for cabling installations that includes complying with fire blocking requirements per code.

Electronics and Configuring to be provided by APS IT Dept.

BEN	School Name	Total Material Cost per Cat 6 Drop (Including conduit, pathways, J hooks, 5400S molding, patch cables, etc.)	Total Installation/Labor Cost per Cat 6 Drop	Installation/Labor Cost Per Unit of Equipment* (Including installation of any patch cables)											Total Installation / Labor Cost	
				HPE 5130-24G SFP (JG933A)*	HPE 150W Power Supply (JD362B)*	Aruba 2930M 48G POE+ (JL322A)*	Aruba 2930M 24G POE+ (JL320A)*	Aruba 680W Power Supply for 2930M (JL086A)*	HPE X121 Transceiver (J4858C)*	HPE X121 1G SFP RJ45 T (J8177C)*	Stacking Module for Aruba 2930M (JL325A)*	5M Stacking Cable (AJ833A)*	Fan Kit OA109AP-11-3TP*	4 port SmartRate Module with POE+ (JL081A)*		HP 560 WAP (J9845A)
98997	Adobe Acres ES															\$ -
99119	Alamosa ES															\$ -
99043	Arroyo Del Oso ES															\$ -
99089	Collet Park ES															\$ -
98973	Dolores Gonzales ES															\$ -
16032582	Juvenile Detention Center															\$ -
99109	Kirtland ES															\$ -
99024	La Luz ES															\$ -
98986	Lavaland ES															\$ -
99004	Los Padillas ES															\$ -
99015	MacArthur ES															\$ -
98995	Navajo ES															\$ -
98981	Reginald Chavez ES															\$ -
16059979	Rudolfo Anaya ES															\$ -
98954	San Antonito ES															\$ -
98989	School on Wheels															\$ -
99120	Truman MS															\$ -
99037	Wilson MS															\$ -

* Please note that the starred items are being procured as a part of a separate procurement, so it is possible that the make or model of the electronics may change. The district expects the installation costs will remain the same regardless of make or model. Vendors must clearly indicate if the pricing will change if a different make or model is chosen.