

ANSWERS TO VENDOR QUESTIONS – ROUND #4

1. Given recent weather events, do you wish to change the RFP requirement to accommodate geographically separate locations for primary and secondary switches? This would ensure network functionality in the event a facility is lost due to a weather event.

The Collin County RFP currently requires, as a minimum, redundant geographically separated Simulcast Control Points, and redundant (but not geographically separated) Main Control Points. Collin County's baseline requirement is to maintain wide-area trunked simulcast operations should a complete site (and all of its associated equipment) fail. In this catastrophic mode of operation, it is understood that some elements of the system may operate differently (loss of network management, RF dispatch rather than wireline, etc.), but wide-area trunked simulcast operations must remain intact. With this requirement in mind:

- a. If the proposed system architecture requires geographically separated Simulcast Control Points to maintain this requirement, then vendors shall propose geographically separated Simulcast Control Points.
 - b. If the proposed system architecture requires geographically separated Main Control Points to maintain this requirement, then vendors shall propose geographically separated Main Control Points.
2. Can drawings be provided of all of the county buildings, soft form preferred (e.g. autocad)?

The County has obtained the following drawings. They are available at Dropbox.com and using the following login information:

Email: jonesb3@bv.com

Password: CollinRound4

1. Collin County Justice Center (PDF)
 - a. Detention Facility
 - b. Sheriff's Admin Building
 - c. Central Power Plant
2. Juvenile Detention Center(AutoCAD)
3. Collin County Justice Center Detention Facility (AutoCAD)

4. Juvenile Justice – Alternative Education Program (PDF, AutoCAD)
5. Collin County Administration Building (PDF)
6. Collin County Courthouse Addition (PDF)
7. Collin County Sub-Courthouse 900 E. Park Blvd (AutoCAD)
8. Collin County Sub-Courthouse 920 E. Park Blvd (AutoCAD)
9. Collin County Sub-Courthouse 406A Raymond St. (AutoCAD)
10. Collin County Sub-Courthouse 8585 John Wesley Drive (AutoCAD)
11. Collin County Medical Examiner (AutoCAD)
12. Public Works Service Center (AutoCAD)
13. Collin County McKinney Plaza (AutoCAD)

If additional drawings can be acquired the County will add them to Dropbox and send an email notice to the vendors.

3. Can drawings be provided of the three (3) hospitals (Medical Center of McKinney, Baylor Medical Center of McKinney and Medical Center of McKinney Wysong Campus) to properly determine the exact coverage areas?

The County has obtained the following drawings from each of the three hospitals that may help. Electronic copies of these drawings may be downloaded from Dropbox. Additional detail on exact required coverage areas for the three hospitals is provided in questions 5 and 6 below.

Medical Center of McKinney - A simple color-coded graphic depicting the layout of the first floor is included in Dropbox. The drawing clearly delineates the boundaries of the Emergency Room area.

Medical Center of McKinney Wysong Campus - Electronic copies of the 2nd, 3rd, and 5th floors are included in Dropbox.

Baylor Medical Center - A single architectural drawing clearly depicting the single floor Emergency Room area is included in Dropbox.

4. With respect to all three hospitals are there any special processes that must be followed for installation especially above the drop ceilings (e.g. tenting/infection control)?

For all hospitals there are special processes that must be followed both prior to starting installation and during installation. Some of the requirements are outlined below, but this is not meant to be “all-inclusive.” Additionally, the County has obtained Construction Risk Assessment Matrices from Baylor Medical Center and has included these in the pages below.

- Prior to beginning installation, the hospitals are required to perform a Pre-Construction Risk Assessment (PCRA) and an Infection Control Risk Assessment (ICRA). This involves meeting with the vendor to discuss the extent and timeline of the project. The Infection Control Director along with the hospital Safety Officer will determine what kind of safety features will need to be put into place to protect the patients during the installation.
- If ceiling tiles are to be removed, there are rules that define whether or not a “barrier” is required. These rules are defined in the Ceiling Tile Risk Assessment Matrix below. The Medical Center of McKinney has stated they have a Dust Buggy that is available to the vendors.
- If any firewalls need to be penetrated, the penetrations must be properly “fire-stopped.” Vendors will not be allowed to proceed with cabling without fire-stopping material on hand.
- “Overhead Work” permits and “Ladder” permits are required.
- Vendor must have safety vest and hard hat, and must have minimum of 2 people.

Hospital Ceiling Tile Risk Assessment Matrix

	Low	Medium	High
<ul style="list-style-type: none"> ▪ Submit request for permit to Infection Prevention and Control/Epidemiology <u>before</u> starting project. ▪ In an emergency - Contact to Infection Prevention and Control/Epidemiology and Environmental Safety immediately. 	<p>Areas where no patients, patient care supplies, and/or patient equipment passes through or is housed</p>	<p>Areas where patients, patient care supplies, and/or patient care equipment is housed or passes through</p>	<p>High risk patient care areas as defined by the BHCS High Risk Locations Matrix</p>
Visual Inspection Only	No barrier	No barrier	Barrier required; no notification required
<p>Visual inspection with VAV adjustment and/or caulking of penetration</p> <ul style="list-style-type: none"> • Removal of only 1-2 tiles at a time • No disruption of structures above ceiling • Work area may be easily visualized and accessed upon removal of tile 	No barrier	No barrier unless patient is in immediate area where work is performed	Barrier required; notify Infection Prevention and Control/Epidemiology
Removal of 3 or more tiles at a time	Barrier required/notify Infection Prevention and Control/Epidemiology	Barrier required/notify Infection Prevention and Control/Epidemiology	Class II Permit Required

A barrier may include:

- Empty room with door closed
- After hours in empty department with ability to close doors
- Plastic wall with or without zip
- Sheet rock solid wall
- Dust buggy
- Tenting
- Replacement tile with a dust containment system

Hospital Construction/Renovation Risk Assessment Matrix

	Low	Medium	High
<ul style="list-style-type: none"> ▪ Submit request for permit to Infection Prevention and Control/Epidemiology <u>before</u> starting project. ▪ In an emergency - Contact Infection Prevention and Control/Epidemiology and Environmental Safety immediately. 	Areas where no patients, patient care supplies, and/or patient equipment passes through or is housed	Areas where patients, patient care supplies, and/or patient care equipment is housed or passes through	High risk patient care areas as defined by the BHCS High Risk Locations Matrix
<p style="text-align: center;">No Permit Required</p> <ul style="list-style-type: none"> ▪ Paint and install wallpaper without removal or sanding. ▪ Holes drilled < ¼ inch standard bit <ul style="list-style-type: none"> < 3/8 inch paddle bit with HEPA Vac No masonry drilling ▪ Minor repair or replace: <ul style="list-style-type: none"> Nurse call, bed, TV/Phone, electrical, ▪ Replace light bulb and ballast ▪ Unstop sink/commode without removal of pipes, sinks, or commode. 	No Permit Required	No Permit Required	No Permit Required
<p style="text-align: center;">Moderate Level Activities</p> <ul style="list-style-type: none"> ▪ Access to chase spaces ▪ Disruption/shut down to utilities ▪ Minor to moderate plumbing ▪ Cutting of walls or ceiling where dust migration can be controlled ▪ Sanding of walls for painting or wall covering ▪ Removal of floor coverings, and casework ▪ New wall construction ▪ For cable pull: see BHCS General Cable Pull Permit 	Class I Permit Required	Class II Permit Required	Class III Permit Required
<p style="text-align: center;">Major demolition and construction projects</p> <ul style="list-style-type: none"> ▪ Activities which require consecutive work shifts ▪ Requires heavy demolition or removal of a complete cabling system ▪ New construction 	Class II Permit Required	Class III Permit Required	Class III Permit Required
<p style="text-align: center;">General Cable Pulls</p> <ul style="list-style-type: none"> ▪ Installation of data, power and/or voice lines – May include minor cutting of wall where dust can be controlled, and/or pulling cable above ceiling 	No Permit Required	General Cable Pull Permit	Class II Permit Required

5. Please confirm that at Baylor and the Medical Center of McKinney only the Emergency Room sections of these two facilities shall be considered mandatory coverage areas?

Collin County confirms the following:

- For the Baylor Medical Center, only the Emergency Room areas of this facility are required to meet the RFP requirements for Mandatory Buildings. The Emergency Room is single story (only on the first floor) and has well defined boundaries. The Emergency Room area encompasses both the North Area with its 12 patient rooms and North Nurse Station; the South Area with its 12 patient rooms and South Nurse Station; the Lounge; the Triage Lobby and the two Triage Rooms; as well as the main lobby hallway.
- For the Medical Center of McKinney, only the Emergency Room areas of this facility are required to meet the RFP requirements for Mandatory Buildings. The Emergency Room is single story (only on the first floor) and has well defined boundaries. The Emergency Room area encompasses all 21 patient rooms; the Emergency Room Lobby; the Triage area; the West Hall; and the South-West Hall.

6. For Medical Center of McKinney Wysong please confirm that floors 1, 2, 3 and 5 only are mandatory coverage areas?

- a. On floor 1 is the unused area to be included in the mandatory coverage area?.

For the Medical Center of McKinney Wysong Campus, Collin County confirms that only floors 1, 2, 3, and 5 are required to meet the RFP requirements for Mandatory Buildings. The “unused area” on floor 1 must be covered since it is used as an entrance today, and it is the location of a future “intake” area.

Areas that are not required to meet the RFP requirements for Mandatory Buildings include the 4th floor (this is a regular hospital floor thus deputies and officers never visit this floor), and the “north wing” administrative offices (the ones detached from the 5-story hospital).

7. Can the design documents of the existing DAS in the following structures be provided: Collin County Courthouse, Collin County Administration Building, Collin County Justice Center and Juvenile Justice Alternative Education Program?

The County has a significant investment in the current BDA systems deployed in several of the County buildings. These BDA systems provide satisfactory radio coverage from the current radio system throughout the buildings. Unfortunately, detailed design documentation does not exist for the BDA/DAS systems throughout the County buildings. Also, the quantity and locations of distributed antennas utilized is not known.

However, the County has constructed a diagram that provides all of the information that could be discovered. The diagram is included at the end of this document, and the Visio version is also included in Dropbox. Additionally, the County has provided an organized

collection of photos for each BDA installation that match the diagram. The photos may be downloaded from Dropbox.

All BDAs are 800MHz and are programmed and used exclusively for the County's current 800 MHz radio system. Proposers are permitted to reuse (for their proposed new system) any elements from the existing BDA systems that the proposer determines may be reused. However, if the proposer uses elements from the existing BDA systems, the proposer must include with their proposal a write-up clearly describing and delineating the equipment proposed and reused for each BDA system. Additionally, the proposer must include an explanation of how the transition of these BDA systems will impact "cutover" to the new 700 MHz system.

8. Section 4.7.1 requires generators to be mounted within a separate room of the equipment shelter, while Section 4.7.5 requires an outdoor installation for the generator. Please confirm the location of the generator for the sites.

The language for RFP Section 4.7.1 (1) shall be changed as follows:

4.7.1 General Requirements

1. Plans and specifications for standby power generators shall be furnished by the Contractor at all sites to be constructed pursuant to this procurement. Generators shall be configured for outdoor installation.
9. Please provide the number of talkgroups in total that will be required to be logged via the Higher Ground recorder through the P25 radio system

Collin County estimates that a maximum of 200 talkgroups will be required to be logged.

10. The price table for Collin County Constables Precinct #4 radios (RFP Section 13.27) specifies quantity 12 listed under both Partial and Full Keypad fields. Can Collin County please confirm which keypad configuration is desired on these mobiles?

The price table for Collin County Constables Precinct #4 radios (RFP Section 13.27) should specify 12 Partial Keypads, and 0 Full Keypads. Collin County has provided corrected Price Sheets at the end of this document.

11. The price tables for the agencies below list a Full Keypad on the mobile radios. Can Collin County please confirm this requirement for a total of 85 mobiles radios equipped with a full keypad?

- Collin County Constables Precinct #4 - partial (12)
- Collin County Animal Services - partial (5)
- Collin County Facilities/Maintenance - partial (9)
- Anna Fire Department - full (10)
- Blue Ridge Fire Department - full (11)
- Celina Police Department - full (8)

- Josephine Fire Department – full (7)
- Lavon Police Department – full (6)
- Lowery Crossing Fire Department – full (6)
- Nevada Fire Department – full (11)

All Price Sheets are accurate for the agencies listed above with the exception of Collin County Constables Precinct #4 (see response to question #10). The County has recapped the keypad requirements for these agencies in the table below.

Agency	Requires
Collin County Constables Precinct #4	12 Partial Keypads
Collin County Animal Services	5 Partial Keypads
Collin County Facilities/Maintenance	9 Partial Keypads
Anna Fire Department	10 Full Keypads
Blue Ridge Fire Department	11 Full Keypads
Celina Police Department	8 Full Keypads
Josephine Fire Department	7 Full Keypads
Lavon Police Department	6 Full Keypads
Lowery Crossing Fire Department	6 Full Keypads
Nevada Fire Department	11 Full Keypads

From the above list of agencies above, a total of 59 total mobile radios require a full keypad.

12. The price table for Collin County Animal Services (RFP Section 13.36) specifies 5 mobile “AES Over The Air Rekeying” but specifies a zero quantity for “AES Single Key Voice Encryption” and “AES Multi Key Voice Encryption”. Can Collin County verify if OTAR is required on these radios and if so, which mode, single key or multi key, is required?

The price table for Collin County Animal Services radios (RFP Section 13.36) should specify 5 “AES Multikey Voice Encryption.” Collin County has provided corrected Price Sheets at the end of this document.

13. The price table for Blue Ridge FD (RFP Section 13.50) specifies 11 mobile and 25 portable “AES Over The Air Rekeying” but specifies a zero quantity for “AES Single Key Voice Encryption” and “AES Multi Key Voice Encryption”. Can Collin County verify if OTAR is required on these radios and if so, which mode, single key or multi key, is required?

The price table for Blue Ridge Fire Department radios (RFP Section 13.50) should specify 0 “AES Over The Air Rekeying (OTAR)” for both mobile and portable radios. Collin County has provided corrected Price Sheets at the end of this document.

14. The following departments do not have quantities filled in for the pricing pages. Can you please provide the quantities required for each type of radio and each feature?

- RFP Section 13.56 - Farmersville ISD Police Department (Page 280-281)
- RFP Section 13.58 - Josephine Police Department (Page 284-285)
- RFP Section 13.65 - Princeton Police Department (Page 298-299)
- RFP Section 13.68 - Weston Fire Department (Page 304-405)

These four agencies did not provide responses to the County for their radio unit requirements. Rather than attempting to collect those requirements at this time, Collin County prefers that the vendors extend the pricing established for other agencies, for “like radios,” to these agencies.

13.27 COLLIN COUNTY CONSTABLES PRECINCT #4

Collin County Constables Precinct #4 Mobile and Portable Radios					
Description <small>(add text to make more descriptive of models and options)</small>	Mobiles	Portables	Unit (Mobiles)	Unit (Portable s)	Extended
Project 25 700/800MHz Mobile Radio (provide radio series and model here)	12		\$	\$	\$
Trunk Mount	12		\$	\$	\$
Dual Control Head	0		\$	\$	\$
External Speaker	12		\$	\$	\$
Project 25 700/800MHz Portable Radio (provide radio series and model here)		17	\$	\$	\$
P25 Phase 2 Operation	12	17	\$	\$	\$
Dual Band (700/800, VHF)	0	0	\$	\$	\$
500 Modes Minimum	12	17	\$	\$	\$
Full Color LCD Alphanumeric Side Display	12	17	\$	\$	\$
Full Keypad	0	0	\$	\$	\$
Partial Keypad	12	17	\$	\$	\$
Dual Mic Noise Cancelling		17	\$	\$	\$
High Noise Reduction		17	\$	\$	\$
Submersible to IP67 (1m for 30 min)		0	\$	\$	\$
Man Down Sensor		0	\$	\$	\$
Color (Standard)		17	\$	\$	\$
Color (Hi Visibility Yellow)		0	\$	\$	\$
Intrinsically Safe		0	\$	\$	\$
PTT-ID	12	17	\$	\$	\$
Emergency Alert	12	17	\$	\$	\$
Priority Scan	12	17	\$	\$	\$
Individual Call and Call Alert	0	0	\$	\$	\$
GPS Location	12	17	\$	\$	\$
Text Messaging	0	017	\$	\$	\$

Collin County Constables Precinct #4 Mobile and Portable Radios					
Description <small>(add text to make more descriptive of models and options)</small>	Mobiles	Portables	Unit (Mobiles)	Unit (Portables)	Extended
Bluetooth Capability	0	17	\$	\$	\$
Radio Authentication	12	0	\$	\$	\$
AES Single-key Voice Encryption	0	0	\$	\$	\$
AES Multikey Voice Encryption	12	17	\$	\$	\$
AES Over The Air Rekeying (OTAR)	12	17	\$	\$	\$
Over The Air Programming (OTAP)	12	17	\$	\$	\$
Battery Type (prefer Lithium Polymer)		17	\$	\$	\$
Battery Life 10 Hours		17	\$	\$	\$
Single Unit Charger (1-Hour)		17	\$	\$	\$
Vehicular Charger		17	\$	\$	\$
Multi-Unit Charger		0	\$	\$	\$
Battery Conditioner Multi Unit		0	\$	\$	\$
Speaker Microphone (no antenna)		17	\$	\$	\$
Spare battery		17	\$	\$	\$
Belt Clip		17	\$	\$	\$
Swivel Belt Clip		17	\$	\$	\$
Leather Carrying Case		17	\$	\$	\$
Services: Installation, Programming, and other Services Related to Radios	Lot		\$	\$	\$
Total Collin County Constables Precinct #4 Mobile and Portable Radios and Related Services					\$

13.36 COLLIN COUNTY ANIMAL SERVICES

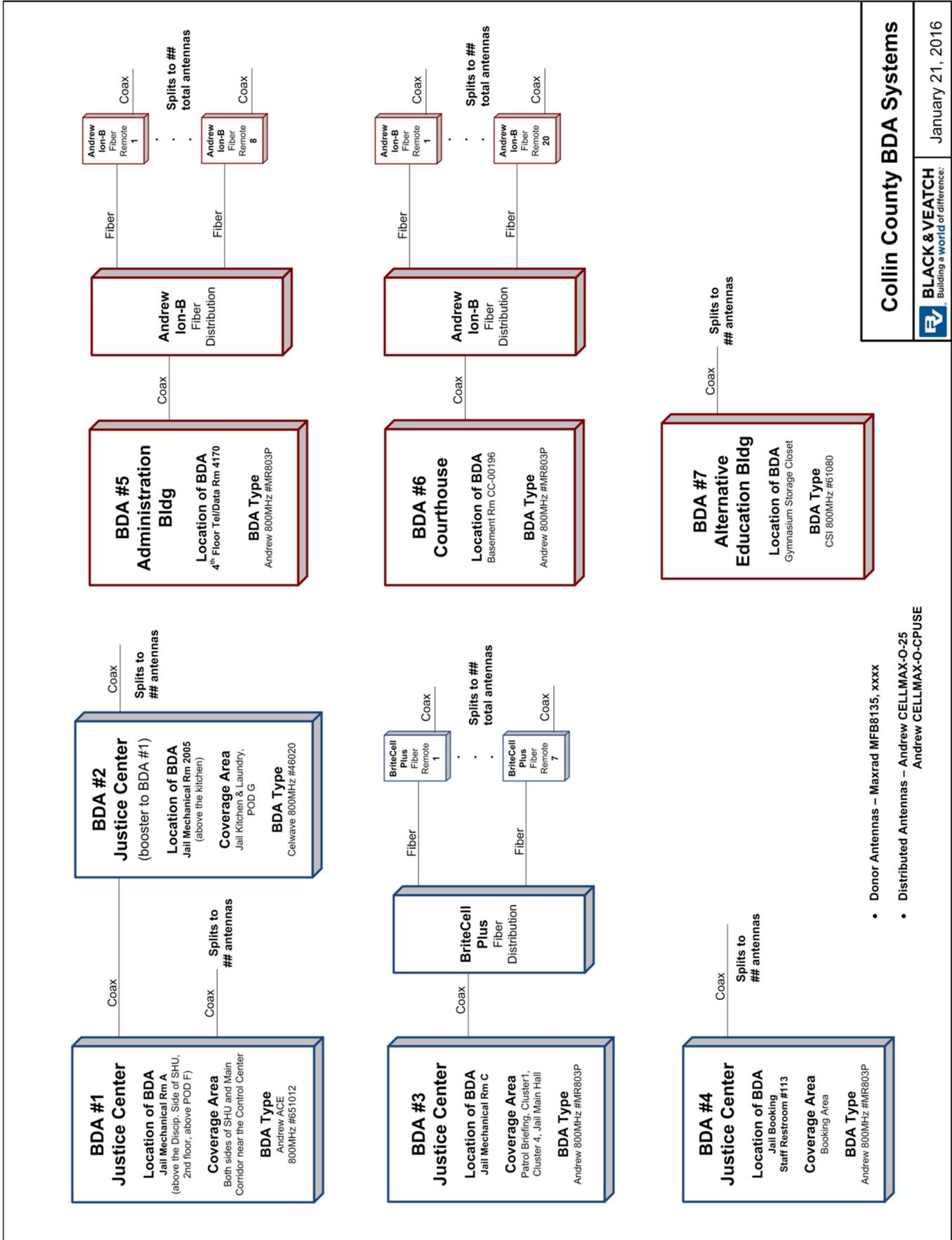
Collin County Animal Services Mobile and Portable Radios					
Description <small>(add text to make more descriptive of models and options)</small>	Mobiles	Portables	Unit (Mobiles)	Unit (Portables)	Extended
Project 25 700/800MHz Mobile Radio (provide radio series and model here)	5		\$	\$	\$
Trunk Mount	0		\$	\$	\$
Dual Control Head	0		\$	\$	\$
External Speaker	5		\$	\$	\$
Project 25 700/800MHz Portable Radio (provide radio series and model here)		9	\$	\$	\$
P25 Phase 2 Operation	5	9	\$	\$	\$
Dual Band (700/800, VHF)	0	0	\$	\$	\$
100 Modes Minimum	5	9	\$	\$	\$
LCD Alphanumeric Side Display	5	9	\$	\$	\$
Partial Keypad	5	9	\$	\$	\$
Dual Mic Noise Cancelling	5	9	\$	\$	\$
High Noise Reduction		9	\$	\$	\$
Submersible to IP67 (1m for 30 min)		0	\$	\$	\$
Man Down Sensor		0	\$	\$	\$
Color (Standard)		9	\$	\$	\$
Color (Hi Visibility Yellow)		0	\$	\$	\$
Intrinsically Safe		0	\$	\$	\$
PTT-ID		9	\$	\$	\$
Emergency Alert	5	9	\$	\$	\$
Priority Scan	5	9	\$	\$	\$
Individual Call and Call Alert	0	0	\$	\$	\$
GPS Location	5	9	\$	\$	\$
Text Messaging	0	0	\$	\$	\$
Bluetooth Capability	0	9	\$	\$	\$

Collin County Animal Services Mobile and Portable Radios					
Description <small>(add text to make more descriptive of models and options)</small>	Mobiles	Portables	Unit (Mobiles)	Unit (Portables)	Extended
Radio Authentication	5	9	\$	\$	\$
AES Single-key Voice Encryption	0	0	\$	\$	\$
AES Multikey Voice Encryption	5	9	\$	\$	\$
AES Over The Air Rekeying (OTAR)	5	9	\$	\$	\$
Over The Air Programming (OTAP)	5	9	\$	\$	\$
Battery Type (prefer Lithium Polymer)	0	9	\$	\$	\$
Battery Life 10 Hours		9	\$	\$	\$
Single Unit Charger (1-Hour)		9	\$	\$	\$
Vehicular Charger		9	\$	\$	\$
Multi-Unit Charger		0	\$	\$	\$
Battery Conditioner Multi Unit		0	\$	\$	\$
Speaker Microphone (no antenna)		9	\$	\$	\$
Spare battery		9	\$	\$	\$
Belt Clip		9	\$	\$	\$
Swivel Belt Clip		9	\$	\$	\$
Leather Carrying Case		9	\$	\$	\$
Services: Installation, Programming, and other Services Related to Radios	Lot		\$	\$	\$
Total Collin County Animal Services Mobile and Portable Radios and Related Services					\$

13.50 BLUE RIDGE FIRE DEPARTMENT

Blue Ridge Fire Department Mobile and Portable Radios					
Description <small>(add text to make more descriptive of models and options)</small>	Mobiles	Portables	Unit (Mobiles)	Unit (Portables)	Extended
Project 25 700/800MHz Mobile Radio (provide radio series and model here)	10		\$	\$	\$
Trunk Mount	0		\$	\$	\$
Dual Control Head	0		\$	\$	\$
External Speaker	10		\$	\$	\$
"Console" Style Control Station (at FD Office/Bay)	1		\$	\$	\$
"Mobile Radio" Style Control Station	0		\$	\$	\$
Control Station Antenna System, Grounding			\$	\$	\$
Project 25 700/800MHz Portable Radio (provide radio series and model here)		25	\$	\$	\$
P25 Phase 2 Operation	11	25	\$	\$	\$
Dual Band (700/800, VHF)	11	25	\$	\$	\$
500 Modes Minimum	11	25	\$	\$	\$
Full Color LCD Alphanumeric Side Display	11	25	\$	\$	\$
Full Keypad	11	25	\$	\$	\$
Partial Keypad	0	0	\$	\$	\$
Dual Mic Noise Cancelling		25	\$	\$	\$
High Noise Reduction		25	\$	\$	\$
Submersible to IP67 (1m for 30 min)		25	\$	\$	\$
Man Down Sensor		0	\$	\$	\$
Color (Standard)		0	\$	\$	\$
Color (Hi Visibility Yellow)		25	\$	\$	\$
Intrinsically Safe		25	\$	\$	\$
PTT-ID	11	25	\$	\$	\$
Emergency Alert	0	25	\$	\$	\$

Blue Ridge Fire Department Mobile and Portable Radios					
Description (add text to make more descriptive of models and options)	Mobiles	Portables	Unit (Mobiles)	Unit (Portables)	Extended
Priority Scan	11	25	\$	\$	\$
Individual Call and Call Alert	0	0	\$	\$	\$
GPS Location	10	25	\$	\$	\$
Text Messaging	0	25	\$	\$	\$
Bluetooth Capability	10	25	\$	\$	\$
Radio Authentication	11	25	\$	\$	\$
AES Single-key Voice Encryption	0	0	\$	\$	\$
AES Multikey Voice Encryption	0	0	\$	\$	\$
AES Over The Air Rekeying (OTAR)	0	0	\$	\$	\$
Over The Air Programming (OTAP)	11	25	\$	\$	\$
Battery Type (prefer Lithium Polymer)		0	\$	\$	\$
Battery Life 10 Hours		25	\$	\$	\$
Single Unit Charger (1-Hour)		2	\$	\$	\$
Vehicular Charger		1	\$	\$	\$
Multi-Unit Charger		0	\$	\$	\$
Battery Conditioner Multi Unit		25	\$	\$	\$
Speaker Microphone (no antenna)		25	\$	\$	\$
Spare battery		25	\$	\$	\$
Belt Clip		0	\$	\$	\$
Swivel Belt Clip		0	\$	\$	\$
Leather Carrying Case		0	\$	\$	\$
Services: Template Development	Lot		\$	\$	\$
Services: Training	Lot		\$	\$	\$
Services: Installation, Programming, and other Services Related to Radios	Lot		\$	\$	\$
Total Blue Ridge Fire Department Mobile and Portable Radios and Related Services					\$



- Donor Antennas – Maxrad MFB8135, xxxx
- Distributed Antennas – Andrew CELLMAX-O-25 Andrew CELLMAX-O-CPUSE

Collin County BDA Systems



January 21, 2016