

## ATTACHMENT A

### Building Technical Specifications and Scope of Work

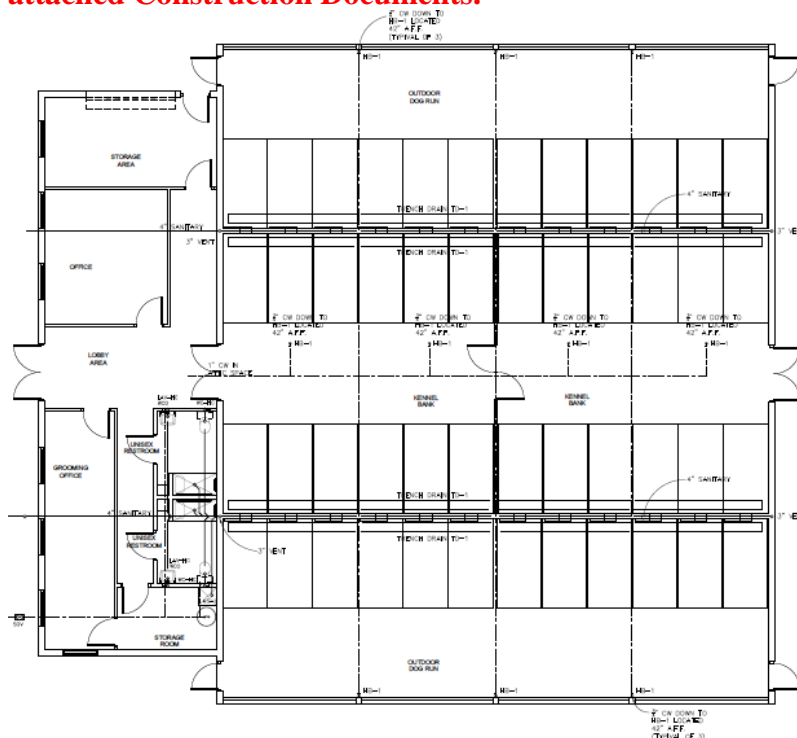
#### **Building 1: K9 Kennel**

- **CMU Design**
- **Approx. Building Width: 74'**
- **Approx. Building Length: 90'**
- **Building construction specifications in compliance with Florida Building Code**
- **Modular kennel system (24 kennels)**
- **Two individual bathrooms with showers**
- **Dog wash/grooming room**
- **Office and Storage**
- **Buildings will require secure access systems and security cameras – County Approved vendor is Skynet.**
- **IT Requirements**
  - **Network rack equipment will be mounted in specified location for IT/Storage equipment.**
  - **All wiring at every end-point must terminated and labeled at the gang box face plate, copper patch panels and fiber LIU.**
  - **Cable testing on all fiber and copper cabling must be completed and results given to PSO IT.**
  - **Each wall in Office should have 1 CAT6 drop for data and 1 CAT6 drop for VoIP telephones. The data drop must use a blue keystone and the VoIP drop must use a green keystone.**
  - **CAT6 cables need to be ran in ceiling to support wireless access point connections.**
  - **The following list of equipment must be used must be procured for use in this building:**

<b><u>Switches</u></b>	<b><u>Model numbers</u></b>	<b><u>Qty</u></b>
<b>Model Number:</b>		
Switch with MACSec	C9200L-48P-4G	1
<b>Power Management:</b>		
Optional secondary power supply	PWR-C5-1KWAC	1
Warranty services	SNT	1
<b><u>Access Points</u></b>		
<b>Model Number:</b>		
2800 Indoor AP	AIR-AP2802I-B-K9	3
<b><u>SFP Modules</u></b>		
(1Gbit) 1000BASE-LX/LH SFP	GLC-LH-SMD=	1
<b><u>Network Rack</u></b>	<b><u>Model numbers</u></b>	
Network rack	12 RU wall mountable network rack	1
Punch down panels	Cable Matters 48 port, 2 RU 180012-Cat6	2
Copper patch cables	Cable Matters Snagless	25

	Cat6 Blue Ethernet 5' Cable	
Copper patch cables	Cable Matters Snagless Cat6 Blue Ethernet 7' Cable	25
Fiber patch cables	C2G 28758 OS2 Fiber Optic Cable - LC-LC 9/125 Duplex Single-Mode PVC Fiber Cable, Yellow (9.8 Feet, 3 Meters)	2
LIU tray	Corning LANscape Closet Connector Housing, Accepts 2 CCH Panels CCH-01U	1
LIU fiber bulk head	CCH-CP12-A8	2
<b>Power Management</b>		<b>Model numbers</b>
Power strips	EMAT08-10	1
Small rack mounted UPS can be used		1
<b>Cabling requirements</b>		<b>Model numbers</b>
Terminate copper	CAT6	
Terminate copper at keystones	Tripp Lite brand (N042-001-04-WH), (N080-106) and (N238-025-BL)	
Terminate Fiber at each end of connection		

- **NOTE: Below graphic provided for conceptual reference only. Specific details in attached Construction Documents.**



**Building 2: K9 Offices / Classroom (joined to Building 2B by breezeway)**

- **Metal building design**
- **Approx. Building Width: 50'**
- **Approx. Building Length: 70'**
- **Building construction specifications in compliance with Florida Building Code**
- **26 gauge insulated metal wall panels to be 2" Kingspan Optimo panels (or similar) with vertical application and premium Mica Floropan classic color selection.**
- **Parapet walls and high side 2" Kingspan Optimo panels (or similar) same as walls**
- **Offices, conference room, classroom, bathrooms, breakroom.**
- **Buildings will require secure access systems and security cameras – County Approved Vendor is Skynet**
- **IT Requirements**
  - **Network rack equipment will be mounted in specified location for IT/Storage equipment.**
  - **This building will act as a hub location, connecting the Kennel building by a 12 strand bundle of fiber.**
  - **All wiring at every end-point must terminated and labeled at the gang box face plate, copper patch panels and fiber LIU.**
  - **Cable testing on all fiber and copper cabling must be completed and results given to PSO IT.**
  - **Wireless access points from building 3 may connect to building 2 by Cat6 copper if the run is less than 300 feet, otherwise fiber connections must be ran to the access points.**
  - **Each office and conference room wall should have 1 CAT6 drop for data and 1 CAT6 drop for VoIP telephones. The data drop must use a blue keystone and the VoIP drop must use a green keystone.**
  - **CAT6 cables need to be ran in ceiling to support wireless access point connections.**
  - **The following list of equipment must be used must be procured for use in this building:**

<b><u>Switches</u></b>	<b><u>Model numbers</u></b>	<b><u>Qty</u></b>
<b>Model Number:</b>		
Switch with MACSec	C9200L-48P-4G	2
<b>Stacking modules:</b>		
Switch stacking kit	C9200L-STACK-KIT	2
<b>Power Management:</b>		
Optional secondary power supply	PWR-C5-1KWAC	2
Warranty services	SNT	2
<b><u>Access Points</u></b>		
<b>Model Number:</b>		
2800 Indoor AP	AIR-AP2802I-B-K9	3
<b><u>SFP Modules</u></b>		
(1Gbit) 1000BASE-LX/LH SFP	GLC-LH-SMD=	6

<b><u>Network Rack</u></b>	<b><u>Model numbers</u></b>	
Network rack	48 RU, 2 post rack Chatsworth Standard Rack 6"D (150 mm)	1
Network ladder	Chatsworth Quick Ship Cable Runway Kit	1
Cable management	Chatsworth Velocity <sup>®</sup> ™ Standard Pack (VSP)	1
Punch down panels	Cable Matters 48 port, 2 RU 180012- Cat6	2
Copper patch cables	Cable Matters Snagless Cat6 Blue Ethernet 5' Cable	50
Copper patch cables	Cable Matters Snagless Cat6 Blue Ethernet 7' Cable	50
Fiber patch cables	C2G 28758 OS2 Fiber Optic Cable - LC-LC 9/125 Duplex Single- Mode PVC Fiber Cable, Yellow (9.8 Feet, 3 Meters)	6
LIU tray	Corning LANscape Closet Connector Housing, Accepts 2 CCH Panels CCH-01U	1
LIU fiber bulk head	CCH-CP12-A8	2
<b><u>Power Management</u></b>	<b><u>Model numbers</u></b>	
Power strips	EMAT08-10	1
UPS	SRT1500XLA	1
Rail mounting kit	SRTRK4	1
Management	AP9631	1
Temperature sensor	AP9335TH	1
Network management	AP9630	1
<b><u>Cabling requirements</u></b>	<b><u>Model numbers</u></b>	
Terminate copper	CAT6	
Terminate copper at keystones	Tripp Lite brand (N042-001-04-WH), (N080-106) and (N238-025-BL)	
Terminate Fiber at each end of connection		

**Building 3: Indoor K9 Training Facility (joined to Building 2A by breezeway)**

- **Metal building design**
- **Approx. Building Width: 50'**
- **Approx. Building Length: 70'**
- **Building construction specifications in compliance with Florida Building Code**
- **26 gauge insulated metal wall panels to be 2” Kingspan Optimo panels (or similar) with vertical application and premium Mica Floropan classic color selection.**
- **Parapet walls and high side 2” Kingspan Optimo panels (or similar) same as walls**
- **Open warehouse style training area, storage room with overhead storage access**
- **Buildings will require secure access systems and security cameras – County Approved Vendor is Skynet**
- **IT Requirements**
  - **All wiring at every end-point must terminated and labeled at the gang box face plate, copper patch panels and fiber LIU.**
  - **Wireless access points from building 3 may connect to building 2 by Cat6 copper if the run is less than 300 feet, otherwise fiber connections must be ran to the access points.**
  - **Cable testing on all fiber and copper cabling must be completed and results given to PSO IT.**
  - **CAT6 cables need to be ran in ceiling to support wireless access point connections.**
  - **The following list of equipment must be used must be procured for use in this building:**

<b><u>Access Points</u></b>		
<b>Model Number:</b>		
2800 Indoor AP	AIR-AP2802I-B-K9	3
<b><u>SFP Modules</u></b>		
(1Gbit) 1000BASE-LX/LH SFP	GLC-LH-SMD=	6
<b><u>Cabling requirements</u></b>	<b><u>Model numbers</u></b>	
Terminate copper	CAT6	
Terminate copper at keystones	Tripp Lite brand (N042-001-04-WH), (N080-106) and (N238-025-BL)	
Terminate Fiber at each end of connection		

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- NOTE: Below graphic provided for conceptual reference only. Specific details in attached construction documents.

