



HIDALGO COUNTY SHERIFF'S OFFICE DETENTION CENTER P25 RADIO SYSTEM UPGRADE – PHASE I

JUNE 9, 2022

DIR-TSO-4101

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June 09, 2022

Sheriff J.E "Eddie" Guerra
Hidalgo County Sheriff's Office
711 El Cibolo Road
Edinburg, Texas 78541

Subject: Detention Center - P25 Radio System Upgrade - Phase I

Dear Sheriff Guerra,

Motorola Solutions, Inc. ("Motorola") is pleased to have the opportunity to provide the Hidalgo County Sheriff's Office - Detention Center ("Detention Center") with quality Radio Communications System, equipment and services. The Motorola project team has taken great care to propose a solution that will meet your needs and provide unsurpassed value.

To best meet the functional and operational specifications of this design, Motorola's solution includes a combination of hardware, software, and services. Specifically, this solution is for equipment and implementation services for the Radio Communications System to provide:

- P25 800 MHz Repeater System – 2
- MCC 7500e Dispatch Center Console System – 2
- APX Mobile Radios
- APX Portables Radios

This proposal consists of this cover letter, equipment lists and special terms that shall remain valid for a period of 30 days from the date of this cover letter. The Detention Center may accept this proposal, by delivering to Motorola a purchase order and agreed upon statement of work signed by an approved signatory. Alternatively, Motorola would be pleased to address any concerns the Detention may have regarding the proposal.

Any questions can be directed to James L. Ewing - Motorola Solutions MR. at 956-457-9895.

We thank you for the opportunity to furnish with "best in class" solutions and we hope to strengthen our relationship by implementing this project. Our goal is to provide you with the best products and services available in the communications industry.

Sincerely,

Motorola Solutions, Inc.

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SYSTEM DESCRIPTION

1.1 SYSTEM OVERVIEW

Motorola Solutions is pleased to provide Hidalgo County Sheriff's Office - Detention Center (Detention Center) a proposal for two MCC7500E dispatch consoles. The consoles will be linked to the Dickinson core via customer provided fiber and use existing conventional radio resources located at the current Fire and Rescue dispatch. The existing furniture will be used for the console locations. The dispatch center will connect to the Dickinson core and in the unlikely event the dispatch center loses connectivity to the core, the operator positions will not have a direct wireline communication with the radio system but will still have access to the radio system via the RF interface to the existing mobile radios.

1.2 GTR 8000 P25 800 MHZ REPEATER



G-Series Chassis – A single chassis and six basic modules create the entire G-series platform, resulting in reduced spare parts inventory.

The GTR 8000 base radio consists of a transceiver module, power amplifier module, fan module, and power supply. The transceiver module includes the functionality for the exciter, receiver, and station control. The base radio software, configuration, and network management, as well as inbound/outbound traffic handling, are performed through this transceiver module. On-board serial and Ethernet ports are located on this module for local servicing through Configuration/Service Software (CSS). The power amplifier module amplifies the low-level modulated RF signal from the transceiver module and delivers the amplified signal on the path to the transmit antenna. The power supply module supports the transceiver and power amplifier modules, and can also provide auxiliary power to a connected site controller or receive multicoupler/low noise amplifier.

1.3 MCC 7500E DISPATCH CONSOLE

The offering is composed of two (2) IP based MCC 7500E consoles, the network equipment to provide a wireline connectivity to the Dickinson core and components to provide fall back communication.

1.3.1 MCC 7500E OVERVIEW

The Motorola MCC 7500E Dispatch Console is a Wireline console for use on Motorola's ASTRO 25 systems. It offers scalable capacity and flexible deployment options and is a software-based dispatch console that requires no external hardware connections (no VPM) to perform dispatch operations. Audio Vocoding is performed within the Windows operating system.

With scalable resource capacity choices and a variety of options including End-to-end Encryption, External Phone Interface, and an Enhanced IRR, customers are able to set features and capacity at the optimal price point to meet their needs.



The MCC 7500E Dispatch Console offers the flexibility to be deployed at a console site within the ASTRO 25 radio network or outside of the ASTRO 25 network. The MCC 7500E Dispatch Console includes the features expected in a high tier Console including Emergency and Console Priority and offers a choice of Motorola or COTS accessories.

The MCC 7500E Dispatch Console supports:

- ASTRO 25 Trunking (Phase 1 & Phase 2)
- ASTRO 25 Digital Conventional (P25)
- Analog & MDC 1200 Analog Conventional
- Mixed Mode Analog / Digital Conventional
- Telephony

1.3.2 ELITE DISPATCH GRAPHICAL USER INTERFACE

The Motorola MCC 7500E Dispatch Console uses the Elite Dispatch graphical user interface (GUI) which is the same GUI used by the MCC 7500 Dispatch Console for displaying information to and accepting commands from the dispatch console user. The Elite Dispatch GUI is efficient, easy to use and intuitive, and has been refined and improved with user controlled color and size of resources. Figure below shows an example of MCC 7500E Elite Dispatch GUI.



1.3.3 PERIPHERAL CONFIGURATION TOOL

The MCC 7500E Dispatch Console software installation automatically configures the computers' output and input sources for voice and audio. The Desktop Mic is set to be the Default input and Speakers 1 and 2 are set to be the default output. These input and output devices can be modified from their default setting using the MCC 7500E Peripheral Configuration Tool (PCT). The PCT comes with the MCC 7500E Dispatch Console software and is automatically installed. When launched, the Peripheral Configuration Tool reads all audio devices that are currently connected.

The Peripheral Configuration Tool supports:

- Dynamic remapping of peripherals
- Dynamic disconnection and connection of peripherals

1.3.4 ENHANCED INSTANT RECALL RECORDER (IRR)

The MCC 7500E Enhanced Instant Recall Recorder (IRR, aka, EIRR) is a Motorola developed instant recall recorder solution integrated with the MCC 7500E Dispatch Console software application. This application provides the dispatch operator with the ability to instantly replay various types of recently

received audio at the MCC 7500E Dispatch Console. Audio and call data from any radio or telephony resource can be recorded and easily played back. Functionality provided includes filtering, sorting, speed control, AGC, noise reduction, waveform display and a highly configurable screen display.

The Enhanced IRR provides additional functionality over the Integrated IRR that was developed for the MCC 7100 Dispatch Application. These differences include four additional recording sources (speaker, telephony, and recording from up to two analog ports on the PC). The “speaker” option, for instance, will allow the IRR to record audio from an unselect, or other, speaker in addition to what is being recorded from the “main source”.

1.3.5 DISPATCH COMPUTER

The MCC 7500E Dispatch Console use an off-the-shelf personal computer running the Microsoft Windows operating system. The certified workstation is a small-form-factor (SFF) desktop workstation and comes with the Windows operating system, a USB keyboard, a USB mouse, four Type A USB ports, two Type C USB ports, four DisplayPort ports, one analog headset 3.5 mm jack and a single Ethernet port. Each PC ships with an external “brick” power supply and a North American AC line cord.

1.3.6 USB AUDIO INTERFACE MODULE (AIM)



The USB Audio Interface Module (AIM) is an external device that is connected to the MCC 7500E Dispatch Console. It functions as an interface between analog devices and the console position and as a general-purpose input/output module. The dispatch console is capable of supporting a single AIM.

The USB Audio Interface Module supports audio routing between the dispatch operator and the MSI purpose-built analog peripherals. The USB AIM connects to the MCC 7500E Dispatch Console with a USB cable.

Headset Jackbox

The headset jack box is specifically designed for use with various Motorola consoles and allows a dispatch console user to use a headset while operating the dispatch console. When used with the MCC 7500E console, it requires an AIM module also be used.

The USB Audio Interface Module can support up to two headset jackboxes allowing simultaneous use of two separate headsets. The headset jackbox supports headsets that use either 6-wire or 4-wire frame connectors. The 6-wire headsets have a PTT button while the 4-wire headsets do not have a PTT button.

Footswitch

The footswitch is specifically designed for use with various Motorola consoles. When used with the MCC 7500E console, it requires an AIM module also be used. It provides two foot pedals, one for transmit and the other for monitor. Each MCC 7500E Dispatch Console can support one footswitch.

The footswitch provides two foot pedals in a rugged, metal housing with a 10 foot cable. One pedal is for the general transmit feature and the other pedal is for the monitor feature. The footswitch makes it possible for a dispatch operator to operate these features with their feet so their hands are free for other tasks.

Gooseneck Microphone

The desktop gooseneck microphone is specifically designed for use with various Motorola consoles. When used with the MCC 7500E console, it requires an AIM module also be used. It has an 18 inch flexible shaft, a transmit button, a monitor button and a 10 foot cable to connect it to the AIM. The 18-inch long, flexible shaft makes it possible for the dispatcher to position the microphone head within a few inches of their mouth even when the base is placed behind a keyboard or writing area.

If a desk microphone is connected to a dispatch console while no headsets are connected, the desk microphone is active whenever any transmit function is active. If a desk microphone is connected to a dispatch console while one or two headsets are connected, the desk microphone is only active during a transmit function when the dispatcher presses the transmit button on it. This solution prevents the desk microphone from picking up unwanted background sound when the dispatcher uses a headset to transmit.

Each MCC 7500E Dispatch Console can support 1 desktop microphone.

Desktop Speakers

Two audio speakers have been included with each console position and can be configured to transmit audio from a specific talkgroup or set of talkgroups. Each speaker is a self-contained unit, with individual volume controls and can be placed on a desktop or, mounted on a rack or computer display.

The MCC 7500E can support a maximum of 8 individual speakers per dispatch position.

1.4 GGM 8000 GATEWAY WITH A CONVENTIONAL CHANNEL GATEWAY INTERFACE (CCGW)



The GGM 8000 interfaces analog and ASTRO 25 conventional channels to your ASTRO 25 radio system. The proposed GGM 8000 contains eight analog ports, eight V.24 ports, and an Ethernet port, supporting up to 16 conventional channels. It will also support up to 16 IP based channels, bringing the total number of supported channels to 32. The GGM 8000 can simultaneously support a combination of analog, MDC 1200, ACIM Link, digital and mixed mode channels. The proposal includes Qty 1 Enhanced HD CCGW.

Integration of control stations (and conventional base stations) into the ASTRO 25 network is accomplished in MCC 7500 architecture with Conventional Channel Gateways (CCGWs). Control stations are connected to the CCGW with four-wire tone or ACIM connections. The CCGW performs the analog to digital audio conversion.

1.5 ETHERNET LINK REQUIREMENTS

The MCC 7500E console site will connect to Dickinson core via a customer provide fiber connection. Customer shall be responsible to provide the link, which meets the specifications in this section to meet optimal performance.

- Bandwidth (Mbps): 3 Mbps.
- Jitter < 0.1%
- Latency < 8 ms (one way delay budget)
- Packet loss < 0.01%

1.6 HVAC LOAD REQUIREMENTS

Motorola recommends each device listed below to be powered by a dedicated 120VAC circuit. When multiple mission critical components are combined on a single electrical circuit the redundancy levels are reduced in the event of a single electrical circuit outage.

Motorola will provide two (2) type 3 power strips in the dispatch equipment room.

For the dispatch console positions, each customer provided circuit must be terminated with a 120VAC 20A receptacle. Motorola recommends two (2) 120VAC 20A receptacles for each operator position. These circuits should be installed within 6' of the proposed equipment installation location. A UPS for the console positions is included in this proposal.

The Electrical and Heating, Ventilation, and Air Conditioning (HVAC) load requirements for the dispatch rack equipment are listed below.

Backroom Equipment Fire and Rescue dispatch location added loads:

Equipment	Qty.	Total Watts	Total BTU/hr	Total Amps	Total Circuits
Dispatch Firewall	1	27	93	.24	1
Dispatch LAN Switch	1	49	167	.43	1
Dispatch LAN Router	1	57	195	.5	1
CCGW	1	46	156	.4	1
Totals		179	611	1.57	5

1.7 APX® ALL-BAND CONSOLETTTE

The APX All-Band Consolette provides a low-cost, mid-power wireless dispatch solution as an ideal complement to a modern P25 dispatch center. Equipped with leading edge P25 Phase 2 TDMA technology and multi-band interoperability, the APX All-Band Consolette can also be used as an emergency backup station when infrastructure is



APX All-Band Consolette

offline, or for wireless access to different system types for increased interoperability between agencies.

The APX All-Band Console's P25 operation and compatibility with legacy systems ensures that communications are clear, continuous, and coordinated across multiple users, agencies, and systems. The durable robust metal housing provides durability and allows for easy servicing, while the integrated front panel numeric keypad allows fast access to radio controls. In addition, optional features and benefits of the APX All-Band Console include:

Optional Multi-Band Operation in One Radio – The APX All-Band Console delivers the convenience of three radios in one while maintaining APCO TIA receiver specifications. With the APX All-Band, personnel can use one console to communicate and provide dispatch operations across multiple digital and analog networks that operate in any three of the following frequency bands: 700 MHz, 800 MHz, VHF, and UHF (R1/R2).

Meets Radio Users' Needs – The APX All-Band Console is compatible with the following optional advanced features and data applications: Programming over Project 25 (POP25), Text Messaging, Over the Air Rekeying (OTAR), and Enhanced Encryption Software Options. It is also capable of Extended Dispatch Operation including: Emergency Alarm ACK Encode, Radio Inhibit/Uninhibit Encode, Radio Monitor Encode, Radio Check Encode, Status Query Encode, Status Query Response Decode, Status Update Decode, and Message Update Decode.

1.8 APX 6500 ENHANCED MOBILE RADIO SOLUTION

Motorola Solutions' APX 6500 Enhanced mobile radio offers a flexible, mission-critical platform that brings reliable communications anywhere operation requires. With a lighter and more compact form factor that works within a variety of vehicle ecosystems, the APX 6500 Enhanced supports multiple configuration options and advanced safety applications directly from the field, such as ViQi Virtual Partner, SmartConnect, and GPS location tracking. These features allow field personnel to stay in command of an incident and respond safely and efficiently with updated intelligence.



The APX 6500 Enhanced mobile is built to evolve alongside personnel as new features and functionalities become available and operational needs change. This includes Wi-Fi support and connection to LTE routers for faster software updates.

The APX 6500 Enhanced mobile radio offers the following key benefits:

- **Easy Installation** – Streamlines installation and reduces cost with a smaller footprint and, if necessary, the reuse of trunnions.
- **SmartConnect Integration** – Offers automatic switchover to Wi-Fi (with configuration to Wi-Fi hotspot and an LTE router in the vehicle) when out of range of LMR coverage. This SmartConnect integration extends public safety communications over carrier networks when in areas such as remote areas and municipalities.
- **ViQi Virtual Partner Integration** – Provides vital public safety information via voice using this cloud-based service. With a single button press and simple audio prompt, personnel can use



natural language to run a license plate or driver's license, and search for vehicles with matching vehicle identification numbers from the field without disruption. ViQi Virtual Partner is accessed with the keypad microphone or O3 control head via a programmable button, if applicable.

- **CommandCentral Integration** – Integrates CommandCentral Aware suite capabilities, such as Impact Detection, to trigger an alert in the event of a vehicle crash and allow dispatch personnel to respond immediately as new developments occur.
- **P25 and Legacy Interoperability** – Unifies coordination and communication across different systems with P25 and legacy interoperability, supporting 700/800 MHz, VHF, UHF R1 frequency bands, and compatible with P25 Phase 1 and Phase 2 infrastructure.
- **Multiple Control Head Options** – Supports flexible configuration based on specific needs, with multiple control head options and different wired locations. The APX 6500 Enhanced mobile is compatible with the O2, O3, O5, and O7 control heads, as well as the E5 control head.

The APX 6500 Enhanced mobile is also compatible with the following advanced features and data applications: AES/DES Encryption, Programming over Project 25 (POP25), Text Messaging Over-the-Air Rekeying (OTAR), 12 character RF ID asset tracking, Dual Radio capabilities, Tactical OTAR, and motorcycle mounting capabilities.

1.9 APX 6000 PORTABLE RADIO

Motorola Solutions designed the APX 6000 fourth generation P25 portable with direct input from first responders. Engineered with high performance technology and utilizing innovative designs, the APX 6000 provides users with an ergonomic and rugged device that delivers superior audio performance with real-time information in a smaller package. The APX 6000 is easy to use, allowing personnel to focus on their job at hand, rather than the technology. In addition, the APX 6000 equips first responders with the clearest audio of any Motorola Solutions portable on the market.



The APX 6000 is Motorola Solutions' fourth-generation, P25 Phase 2 capable portable radio, created specifically for public safety first responders who need to communicate on Project 25 Phase 2 systems. It offers outstanding performance in a compact, ruggedly reliable design, with the clearest audio of any Motorola Solutions portable on the market. With Wi-Fi access enables, the APX 6000 can quickly receive new codeplugs, firmware, and software features, in order to redeploying the radio fleet with ease as users continue talking without interruption. The APX 6000 improves public safety and emergency response times by incorporating innovative technology and design features developed based on direct input from first responder radio users.

Some of the standard features and benefits of the APX 6000 include:

- **Improved Efficiency and Safety** – Supports Integrated Voice and Data (IV&D) capabilities to enhance the efficiency and safety of users through various data applications (Over-the-Air Programming (POP25) and Text Messaging).
- **Advanced Audio Features Ensure Intelligibility in High-Noise Environments** – 3 Watt speaker deliver superior intelligibility by producing louder sound and more accurately reproducing voice transmissions. An adaptive audio engine and ultra-loud 3 Watt speaker enable the radio to automatically adjust to consistently produce the loudest and clearest audio in any environment. Dual-sided two-microphone noise-canceling technology ensures clear audio through noise suppression technology that locates the talker and cancels out any background



noise in their environment. An AMBE digital voice vocoder provides unmatched speed and voice quality, while reducing costs by requiring less data, memory, and power consumption.

- **Discreet Communication between Radio Users** – Cutting-edge design features in a small size enable public safety radio users, such as police officers, with the ability to communicate with team members without being detected in dangerous situations. The T-Grip design offers a secure grip and easy handling. The full bitmap monochromatic LCD Top Displays allow users to quickly read messages at a glance, and a high-contrast color display screen ensures easy viewing in difficult lighting conditions or when viewing at an angle. The enhanced grooves of the Push-to-Talk (PTT) button allow users to easily locate by “touch”.
- **Rugged Design Features** – Heavy-duty design features provide additional durability. Because it meets Submersible IP68 standards with the option to upgrade to a rugged housing (2 meters, 2 hours), the APX 6000 will function even when immersed in water. Meets all applicable MIL-STD-810C, D, E, F and G standards for withstanding dust, heat, shock, and drops, making it the most reliable portable radio in any situation.

The APX 6000 comes in three different base configurations, and can be further customized to meet the needs. These models include:

- Model 1.5 (Dual Display and no keypad).
- Model 2.5 (Dual-display with limited keypad).
- Model 3.5 (Dual-display with full keypad).

APX 6000	Full Bitmap Monochromatic LCD Top Display	Full Bitmap Color LCD Display	Backlit Keypad with 3 Soft Keys	4-Direction Navigation Key	Home and Data Buttons	4x3 Keypad	Channel Capacity
Model 1.5	X						96
Model 2.5	X	X	X	X	X		1000
Model 3.5	X	X	X	X	X	X	1000

1.10 APX 900 PORTABLE RADIOS

The APX 900 offers affordable, entry-level communications for users, without compromising P25 interoperability or voice and data quality. With Bluetooth Low Energy (LE) 4.0, the APX 900 gives users wireless freedom and the “always-on” convenience of pairing to the radio without draining the battery.

The APX 900 features a ruggedized build for reliable, everyday efficiency in all types of environments. The two-knob design makes operation easy and efficient.

- **Improved Efficiency and Safety**—Supports Integrated Voice and Data (IV&D) capabilities to enhance the efficiency and safety of users through various data applications (Including Integrated GPS, Single-Key ADP Encryption, and Text Messaging).



- **Smart Interoperability** – The APX 900 is certified compliant with the P25 standard, ensuring a smart, scalable investment. Bluetooth 4.0 (LE) capabilities give freedom to use the radio without being wired to it.
- **Device Management Services** can manage operations with support. Motorola Solutions offers three levels of service packages.
 - With **Essential Services**, Motorola Solutions’ qualified technicians perform initial radio provisioning, programming, and preventive maintenance to get users up and running fast.
 - With **Advanced Services**, users can rely on technical support to troubleshoot problems and resolve issues, ensuring consistent performance every day.
 - With **Premier Services**, users can transfer APX two-way radio operations to Motorola Solutions’ managed services professionals who are focused on maximizing performance.

1.11 CUTOVER

This section provides a high-level plan of the cutover:

- Motorola shall install and configure 2 racks of equipment: 1 at Detention Center Dispatch Backroom Electronics Location and 1 at Sheriff’s Office Backroom Electronics – IT Location.

(Motorola assumes the Fiber/Ethernet link is available and functional prior to installation).

A detailed cutover process will be discussed with the Detention Center during the DDR process. It shall outline the requirements and steps that will be taken during the cutover process to ensure minimal interruption of service.

1.12 DESIGN ASSUMPTIONS

Motorola has based the system design on information gathered from meeting with the Customer. All assumptions have been listed below for review. Should Motorola’s assumptions be deemed incorrect or not agreeable to the Customer, a revised proposal with the necessary changes and adjusted costs may be required. Changes to the equipment or scope of the project after contract may require a change order.

- Motorola assumes the RGVCG Core can accommodate the new site. The core router was not included as part of the quote. If a new core router is required, a change order may be required.
- Motorola will not run any RF analysis for the radios as part of this proposal.
- Customer will be responsible to provide Fiber/Ethernet connectivity to the RGVCG Core and dispatch location.
- Motorola has included backup power in this proposal for the backroom equipment. A UPS for the console position has been included.
- The existing customer radios shall be programmed with new Jail frequencies.
- Customer will provide space and furniture for the installation of the MCC 7500E console positions and backroom equipment as outlined in this proposal.
- Training services are included in this proposal.
- All existing sites or equipment locations will have sufficient space available for the system described.
- All existing sites or equipment locations will have adequate electrical power and site grounding (per R56) to support the requirements of the system described. Any R-56 upgrades are customer’s responsibility.
- Any site/location upgrades or modifications are the responsibility of the Customer. Structural upgrades and/or modifications to any existing building or towers are not included. Customer is responsible for all civil work required for this project.



- The customer is responsible for providing for AC power for the uninterruptible power supply.
- The customer is responsible for providing the customer is responsible for providing a 2 (Two) 20A Quad Outlet within 6ft of the dispatch console position equipment.
- The customer is responsible for providing a 2 (Two) 20A Quad Outlet within 6ft of the Detention Center Dispatch Backroom Electronics Location.
- The customer is responsible for providing for AC power for the uninterruptible power supply.
- The customer is responsible for providing a 2 (Two) 20A Quad Outlet within 6ft of the repeater Rack at Sheriff's Office Backroom Electronics – IT Location.
- A new logger and interface is included in this proposal.
- Motorola is not responsible for interference caused or received by the Motorola provided equipment except for interference that is directly caused by the Motorola provided transmitter(s) to the Motorola receiver(s). Should the customer's system experience interference, Motorola can be contracted to investigate the source and recommend solutions to mitigate the issue.

1.13 INTEROPERABILITY

	SO DISPATCH CONSOLE	SO / JAIL APX 7500 MOBILE	SO / JAIL APX 7000 PORTABLE	SO / JAIL APX 6500 MOBILE	SO / JAIL APX 6000 PORTABLE	JAIL CENTRAL COMMAND CONSOLE	JAIL APX 900 PORTABLE
SO DISPATCH CONSOLES	☒	☒	☒	☒	☒	☒	PATCH
SO MOBILE	☒	☒	☒	☒	☒	☒	PATCH
SO PORTABLES	☒	☒	☒	☒	☒	☒	PATCH
JAIL CENTRAL COMMAND CONSOLES	☒	☒	☒	☒	☒	☒	☒
JAIL MOBILE ADM / TRANSPORTATION	☒	☒	☒	☒	☒	☒	☒
JAIL ADM PORTABLES	☒	☒	☒	☒	☒	☒	☒
JAIL PORTABLES	PATCH	PATCH	PATCH	PATCH	☒	☒	☒
COURTHOUSE PORTABLES	☒	☒	☒	☒	☒	☒	PATCH
REGIONAL TALKGROUPS REG CALL / REG EVNT	☒	☒	☒	☒	☒	☒	PATCH
EXTERNAL ENTITY CONSOLES/MOBILES/PORTABLES	REGIONAL	REGIONAL	REGIONAL	REGIONAL	REGIONAL	REGIONAL	PATCH



SECTION 2

EQUIPMENT LIST

QTY	NOMENCLATURE	DESCRIPTION
1	SQM01SUM0323	ASTRO MASTER SITE
1	CA03517AC	ADD: CORE EXPANSION
1	UA00156AA	ADD: MCC7500 CONSOLE LICENSES (QTY 5)
1	CA01316AA	ADD: UNC ADDTL DEVICE LIC (QTY 10)
1	DS1101990	SPD, SHIELDED RJ-45 JACK, SINGLE LINE GBE (1000MBPS) R56 COMPLIANT
1	DSTSJADP	RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS
1	DS11011188	PDU, 120/240 SPLIT PH OR N+1 REDUNDANT, 60A MAX PER PHASE, SIX DEDICAT
12	DS3750297	BREAKER, 15 AMP, CB UL 489 LISTED FOR AC EDGE II (1101-1188)
1	DSRMP615A	SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5-15 OUTLETS
1	DSGXTR9000N005HW	UPS, GXT RACKMOUNT 10KVA/9KW, 5 MIN RUN 208V W/MBB HARDWIRED
1	TRN7343	SEVEN AND A HALF FOOT RACK
1	SQM01SUM7054	GTR 8000 EXPANDABLE SITE SUBSYSTEM
1	CA00855AA	ADD: 700/800 MHZ
1	CA03677AA	ADD: ASTRO SYSTEM RELEASE 2020.1
1	X302AE	ADD: QTY (2) GTR 8000 BASE RADIOS
2	CA01948AA	ADD: DIGITAL CONVENTIONAL SOFTWARE
1	CA02686AA	ADD: AC DC POWER DISTRIBUTION
1	CA00861AA	ADD: CABINET RMC W/ CAPABILITY OF 6 BRS
1	CA00879AA	ADD: PRIMARY 6 PORT CAVITY COMBINER
1	X882AH	ADD: 7.5 FT OPEN RACK, 48RU
1	CA00883AA	ADD: 800 MHZ TX FILTER W/PMU
2	CA00884AA	ADD: QTY (1) XHUB



1	DSCC80711	OMNI, CORPORATE COLLINEAR, 10.5DBD, 746-870MHZ, PIM & 25KW PIP RATED
15	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT
2	DSDMA01250B	7/16 DIN MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
2	DSWKU	WK-U, UNIVERSAL WEATHERPROOFING KIT
125	DSAT078J50	AT078J50, 7/8" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT
2	DSDFA07850B	7/16 DIN FEMALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)
8	DSGKS78AC	GK-S78AC, STD GROUND KIT FOR 7/8" AIRCELL COAX
3	DSHG78	HG-78, LACE-UP HOISTING GRIP FOR 7/8" AIRCELL COAX
1	DSTSXD FMBF	RF SPD, 698-2700MHZ DC BLOCK HIGH PWR, DIN FEM/MALE BI-DIR W/ BRACKET
1	DSGSAKITD	GROUND STRAP KIT - DIN
15	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT
2	DSDMA01250B	7/16 DIN MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
15	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT
2	DSDMA01250B	7/16 DIN MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
15	DSACC014J50	1/4" ULTRA FLEXIBLE, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, LOW S
2	DSNMA01450	N MALE FOR 1/4" ACC SERIES CABLE
15	DSACC014J50	1/4" ULTRA FLEXIBLE, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, LOW S
2	DSNMA01450	N MALE FOR 1/4" ACC SERIES CABLE
1	DSCC80711	OMNI, CORPORATE COLLINEAR, 10.5DBD, 746-870MHZ, PIM & 25KW PIP RATED
15	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT
1	DSNMA01250B	N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
1	DSDMA01250B	7/16 DIN MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
7	DSWKU	WK-U, UNIVERSAL WEATHERPROOFING KIT
5	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT
2	DSNMA01250B	N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)



125	DSAT078J50	AT078J50, 7/8" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT
2	DSNFA07850B	N FEMALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)
8	DSGKS78AC	GK-S78AC, STD GROUND KIT FOR 7/8" AIRCELL COAX
3	DSHG78	HG-78, LACE-UP HOISTING GRIP FOR 7/8" AIRCELL COAX
125	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT
1	DSNMA01250B	N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
1	DSNFA01250B	N FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
8	DSGKS12AC	GK-S12AC, STD GROUND KIT FOR 1/2" AIRCELL COAX
3	DSHG12	HG-12, LACE-UP HOISTING GRIP FOR 1/2" AIRCELL COAX
1	DS1090501WA	RF SPD, 700-1000MHZ BROADBAND 15 VDC PASS NM ANT, NF EQUIP PIP, ASIG
2	DS1090501WA	RF SPD, 700-1000MHZ BROADBAND 15 VDC PASS NM ANT, NF EQUIP PIP, ASIG
15	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT
2	DSNMA01250B	N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
15	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT
2	DSNMA01250B	N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
15	DSACC014J50	1/4" ULTRA FLEXIBLE, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, LOW S
2	DSNMA01450	N MALE FOR 1/4" ACC SERIES CABLE
1	DS440030221	TTA 440, MOTOROLA TOWER TOP UNIT, 794-824 MHZ, 4.3-10 CONNS, AUTOQUAD
1	DS440032970	TTA 440, MOTOROLA CU (ESS), 794-824 MHZ, BYPASS, TEST PORT, 2AC
0		
1	B1948	MCC 7500E DISPATCH POSITION LICENSES
2	UA00653AA	ADD: BASIC CONSOLE OPERATION
2	UA00655AA	ADD: ADVANCED CONVENTIONAL OPERATION
2	UA00654AA	ADD: ASTRO 25 TRUNKING OPERATION
2	UA00656AA	ADD: IED OPERATION
2	UA00659AA	ADD: ADP/AES/DES-OFB ENCRYPTION
2	UA00658AA	ADD: SECURE OPERATION



2	UA00249AA	ADD: 15 RADIO RESOURCES LICENSE
2	UA00661AA	ADD: ENHANCED IRR
1	B1949	MCC 7500E SOFTWARE DVD
2	DSEV221B	TECH GLOBAL EVOLUTION SERIES 22INCH WITH TOUCH
2	TT3903A	Z2 G5 MINI WORKSTATION NON RETURNABLE
4	B1952	SPEAKER, DESKTOP, USB
2	DSLOGITECHZ130	LOGITECH Z130 SPEAKERS
4	CA03405AA	ADD: POWER SUPPLY WITH DC CORD
4	CA03406AA	ADD: AC LINE CORD, NORTH AMERICA
4	CA03413AA	ADD: USB CABLE, TYPE A TO TYPE C, 4.5M
2	B1941	USB AUDIO INTERFACE MODULE
2	B1914	MCC SERIES DESKTOP GOOSENECK MICROPHONE
2	CA03413AA	ADD: USB CABLE, TYPE A TO TYPE C, 4.5M
4	B1913	MCC SERIES HEADSET JACK
2	RMN5077B	SUPRAPLUS SINGLE MUFF HEADSET
2	RLN6098	HDST MODULE BASE W/PTT, 15 FT CBL
2	DSTWIN6328A	PROVIDES ONE DUAL PEDAL FOOTSWITCH FOR USE WITH MOTOROLA MCC 7500 DISP
2	T8742	MCAFFEE FOR WINDOWS CLIENT, A2019.2
1	DSF2B56AA	USB EXTERNAL DVD DRIVE
	DSVERINTRECORDER	VERINT CONSOLIDATED RECORDER
1	DSVERINTCAS	VERINT CAS
0		
1	T8751	ASTRO 2020.1 NM SW CLIENT
1	TT3903A	Z2 G5 MINI WORKSTATION NON RETURNABLE
1	DSTG191B	TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH
1	TT2177	INTOUCH RUNTIME 60K TAG W/O-I/O, V10.1, LIC ONLY
1	TT2296	HYPERACCESS VERSION 9.0
1	DDN9048	SERIAL/ IP 1 PORT SEAT LICENSE
1	DSF2B56AA	USB EXTERNAL DVD DRIVE
0		



1	CLN1868	2930F 24-PORT SWITCH
1	T8492	SITE ROUTER & FIREWALL- AC
1	CA03445AA	ADD: MISSION CRITICAL HARDENING
1	CA03448AA	ADD: STATEFUL FIREWALL
1	SQM01SUM0333	MCG 8000 CONVENTIONAL GATEWAY
1	CA03714AA	ADD: AC POWER
6	CA03717AA	ADD: ACIM INTERFACE
2	CA03716AA	ADD: V.24 INTERFACE
2	CA03718AA	ADD: ANALOG 4WIRE INTERFACE
1	T7038	GCP 8000 / GPB 8000 / XHUB / DSC HUB
1	CA03678AA	ADD: ASTRO SYSTEM RELEASE 2021.1
1	CA00303AA	ADD: QTY (1) SITE CONTROLLER
1	CA01136AA	MCC 7500 CONVEN SITE OPER
1	X153AW	ADD: RACK MOUNT HARDWARE
1	DS1101990	SPD, SHIELDED RJ-45 JACK, SINGLE LINE GBE (1000MBPS) R56 COMPLIANT
1	DSTSJADP	RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS
1	DS11011188	PDU, 120/240 SPLIT PH OR N+1 REDUNDANT, 60A MAX PER PHASE, SIX DEDICAT
12	DS3750297	BREAKER, 15 AMP, CB UL 489 LISTED FOR AC EDGE II (1101-1188)
1	DSRMP615A	SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5-15 OUTLETS
1	DSGXTR9000N005HW	UPS, GXT RACKMOUNT 10KVA/9KW, 5 MIN RUN 208V W/MBB HARDWIRED
1	TRN7343	SEVEN AND A HALF FOOT RACK
0		
6	L37TSS9PW1 N	ALL BAND CONSOLETTTE
6	L998	ADD: LIMITED FRONT PANEL W/CLOCK/VU
6	G48	ENH: CONVENTIONAL OPERATION
6	GA00469	ENH: EXTENDED DISPATCH APX CONSOLETTTE
6	CA01598	ADD: AC LINE CORD US
6	G799	ADD: PRINTED TEST RESULTS APX
6	GA05508	DEL: DELETE VHF BAND
6	G78	ADD: 3Y ESSENTIAL SERVICE

6	GA05509	DEL: DELETE UHF BAND
6	G843	ADD: AES ENCRYPTION APX AND ADP
6	G806	ENH: ASTRO DIGITAL CAI OP APX
6	G298	ENH: ASTRO 25 OTAR W/ MULTIKEY
6	HKN6233C	APX CONSOLETTET RACK MOUNT KIT
0		
2	M25URS9PW1BN	APX6500 ENHANCED 7/800 MHZ
2	G66	ADD: DASH MOUNT APXM
2	W665	ADD: CONTROL STATION OPERATION
2	G91	ADD: CONTROL STATION POWER SUPPLY
2	G444	ADD: APX CONTROL HEAD SOFTWARE
2	GA01670	ADD: APX E5 CONTROL HEAD
2	G89	ADD: NO RF ANTENNA NEEDED
2	G806	ENH: ASTRO DIGITAL CAI OP APX
2	G51	ENH: SMARTZONE OPERATION APX6500
2	G361	ENH: P25 TRUNKING SOFTWARE APX
2	GA00235	ADD: NO GPS ANTENNA NEEDED
2	G843	ADD: AES ENCRYPTION APX AND ADP
2	W969	ADD: MULTIPLE KEY ENCRYPTION OPERATION
2	QA01648	ADD: ADVANCED SYSTEM KEY - HARDWARE KEY
2	G90	ADD: NO MICROPHONE NEEDED
2	G142	ADD: NO SPEAKER NEEDED
2	G78	ADD: 3Y ESSENTIAL SERVICE
2	HLN6042	MOBILE DESK TRAY
2	DSSMART1500	UPS,1500VA SMARTPRO TOWER LINE- INTERACTIVE 120V 6 OUTLET -
0		
1	DSMFBW7463	WIDEBAND FIBERGLASS OMNI ANTENNA 746-869 NFM BULKHEAD
1	DSNMA01250B	N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
150	DSAP6012J50	AP6012J50, 1/2" PLENUM, 50OHM, CORRUG(6GHZ), JCKTED UL-910, CATVP PER FT
2	DSDMA01250B	7/16 DIN MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
80	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50 OHM, BLACK POLYETHYLENE JCKT PER FT

2	DSDFA01250B	7/16 DIN FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
3	DSSG1206B2A	SG12-06B2A 1/2IN SURE GROUND GROUNDING KIT
1	DSL5SGRIP	DSSG1206B2A
1	DS1090501WA	RF SPD, 700-1000MHZ BROADBAND 15 VDC PASS NM ANT, NF EQUIP PIP, ASIG
1	DSGSAKITD	GROUND STRAP KIT - DIN
15	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT
5	DSNMA01250B	N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
5	DSDFA01250B	7/16 DIN FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
1	DSBCH11008	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ
1	DSMFBW7463	WIDEBAND FIBERGLASS OMNI ANTENNA 746-869 NFM BULKHEAD
1	DSNMA01250B	N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
15	DSAP6012J50	AP6012J50, 1/2"PLENUM, 50OHM, CORRUG(6GHZ), JCKTED UL-910, CATVP PER FT
2	DSDMA01250B	7/16 DIN MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
150	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50 OHM, BLACK POLYETHYLENE JCKT PER FT
2	DSDFA01250B	7/16 DIN FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
3	DSSG1206B2A	SG12-06B2A 1/2IN SURE GROUND GROUNDING KIT
1	DSL5SGRIP	DSSG1206B2A
1	DS1090501WA	RF SPD, 700-1000MHZ BROADBAND 15 VDC PASS NM ANT, NF EQUIP PIP, ASIG
1	DSGSAKITD	GROUND STRAP KIT - DIN
15	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50 OHM, BLACK POLYETHYLENE JCKT PER FT
5	DSNMA01250B	N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
5	DSDFA01250B	7/16 DIN FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
0		
1	DLN6781	FRU: POWER SUPPLY
1	DLN6885	FRU: XCVR 7/800 MHZ V2
1	DLN6895	FRU: PA 7/800 MHz
1	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000

1	CLN1868	2930F 24-PORT SWITCH
0		
6	M25URS9PW1BN	APX6500 ENHANCED 7/800 MHZ
6	G806	ENH: ASTRO DIGITAL CAI OP APX
6	G51	ENH: SMARTZONE OPERATION APX6500
6	G361	ENH: P25 TRUNKING SOFTWARE APX
6	QA01648	ADD: ADVANCED SYSTEM KEY - HARDWARE KEY
6	GA01670	ADD: APX E5 CONTROL HEAD
6	G444	ADD: APX CONTROL HEAD SOFTWARE
6	G67DT	ADD: REMOTE MOUNT E5 APXM
6	GA01693	ADD : LEGACY TRUNNION SCREW KIT
6	G843	ADD: AES ENCRYPTION APX AND ADP
6	G298	ENH: ASTRO 25 OTAR W/ MULTIKEY
6	QA03399	ADD: ENHANCED DATA
6	G78	ADD: 3Y ESSENTIAL SERVICE
6	W22	ADD: STD PALM MICROPHONE APX
6	B18	ADD: AUXILIARY SPKR 7.5 WATT
6	G174	ADD: ANT 3DB LOW-PROFILE 762-870
6	GA00250	ADD: WIFI/GNSS FLEXIBLE CABLE LMR195
6	GA01576	ADD: SMA TO QMA ADAPTER
0		
6	H98UCH9PW7BN	APX6000 700/800 MODEL 3.5 PORTABLE
6	Q806	ADD: ASTRO DIGITAL CAI OPERATION
6	H38	ADD: SMARTZONE OPERATION
6	Q361	ADD: P25 9600 BAUD TRUNKING
6	QA01648	ADD: ADVANCED SYSTEM KEY - HARDWARE KEY
6	QA05570	ALT: LI-ION IMPRES 2 IP68 3400 MAH
6	Q629	ENH: AES ENCRYPTION AND ADP
6	Q498	ENH: ASTRO 25 OTAR W/ MULTIKEY
6	QA03399	ADD: ENHANCED DATA
6	Q58	ADD: 3Y ESSENTIAL SERVICE
6	PMNN4486	BATT IMPRES 2 LIION R IP68 3400T

6	PMLN7904A	LEATHER CARRY CASE WITH D-RINGS AND 2.75" SWIVEL BELT LOOP
6	NNTN8860A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA
0		
300	H92UCF9PW6 N	APX 900 7/800 MHZ MODEL 2 PORTABLE
300	QA01648	ADD: ADVANCED SYSTEM KEY - HARDWARE KEY
300	QA06765	ALT: IMPRESS LI-ION 3000MAH
300	QA04096	ENH: P25 TRUNKING
300	QA06653	ENH: AES 256 SW ENCRYPTION
300	H869	ADD: MULTIKEY
300	QA03399	ADD: ENHANCED DATA
300	H885BK	ADD: 3Y ESSENTIAL SERVICE
300	PMNN4493A	BATT IMPRES LIION LOW VOLT IP68 3000T
300	PMPN4174A	CHGR DESKTOP SINGLE UNIT IMPRES, US/NA
300	PMLN5842A	HARD LEATHER CARRY CASE WITH 2.5 IN SWIVEL BELT LOOP - FKP
0		
10	PMPN4284A	CHARGER DESKTOP MULTI-UNIT IMPRES 2 1 DISPLAY EXT PS 100-240VAC US/NA
10	BR000272A01	BRACKET, WALL MOUNT, 6WAY MAINTENANCE MUC

STATEMENT OF WORK

Motorola Solutions will install and configure the proposed equipment. The following table describes the tasks involved with installation and configuration.

Tasks	Motorola Solutions	Customer
PROJECT INITIATION		
Contract Finalization and Team Creation		
Execute contract and distribute contract documents.	X	X
Assign a Project Manager as a single point of contact.	X	X
Assign resources.	X	X
Schedule project kickoff meeting.	X	X
Deliverable: Signed contract, defined project team, and scheduled project kickoff meeting.		
Project Administration		
Ensure that project team members attend all meetings relevant to their role on the project, including DDR. This includes any ongoing project status meetings set up between Motorola and the Detention Center project teams.	X	X
Set up the project in the Motorola Solutions information system.	X	
Record and distribute project status meeting minutes.	X	
Coordinate and maintain responsibility for third-party services contracted by Motorola Solutions.	X	
Complete assigned project tasks according to the project schedule.	X	X
Submit project milestone completion documents.	X	
Upon completion of tasks, approve project milestone completion documents.		X
Conduct all project work Monday thru Friday, 8:00 a.m. to 5:00 p.m.).	X	
Deliverable: Completed and approved project milestones throughout the project.		
Project Kickoff		
Introduce team, review roles, and decision authority.	X	X
Present project scope and objectives.	X	
Review SOW responsibilities and project schedule.	X	X
Schedule Design Review.	X	X
Deliverable: Completed project kickoff and scheduled Design Review.		



Tasks	Motorola Solutions	Customer
Design Review		
Review the Customer's operational requirements.	X	X
Present the system design and operational requirements for the solution.	X	
Present installation plan.	X	
Present preliminary cutover plan and methods to document final cutover process.	X	
Present configuration and details of sites required by system design.	X	
Validate that Customer sites can accommodate proposed equipment.	X	X
Provide approvals required to add equipment to proposed existing sites.		X
Review safety, security, and site access procedures.	X	
Finalize site development plan.	X	
Present equipment layout plans and system design drawings.	X	
Provide link specifications and demarcation points.	X	
Provide heat load and power requirements for new equipment.	X	
Provide information on existing system interfaces.		X
Provide frequency and radio information for each site. Obtain all frequencies as required for project.		X
Assume liability and responsibility for proving all information necessary for complete installation.		X
Assume responsibility for issues outside of Motorola Solutions' control.		X
Complete, if required, the forms required for frequency coordination and licensing.		X
Ensure that frequency availability and licensing meet project requirements and, pay licensing and frequency coordination fees.		X
Obtain all licensing, site access, or permitting required for project implementation.		X
Any Site/location upgrades, site modifications are the responsibility of the Detention Center		X
Review and update design documents, including System Description, Statement of Work, Project Schedule, and Acceptance Test Plan, based on Design Review agreements.	X	
Execute Change Order in accordance with all material changes to the Contract resulting from the Design Review.	X	
Deliverable: Finalized design documentation based upon "frozen" design, along with any relevant Change Order documentation.		
SITE PREPARATION AND DEVELOPMENT		
Site Access		
Provide site owners/managers with written notice to provide entry to sites identified in the project design documentation.		X



Tasks	Motorola Solutions	Customer
Obtain site licensing and permitting, including site lease/ownership, zoning, permits, regulatory approvals, easements, power, and telco connections.		X
Deliverable: Access, permitting, and licensing necessary to install system equipment at each site.		
General Facility Improvements		
Provide adequate HVAC, grounding, lighting, cable routing, and surge protection based upon Motorola Solutions' Standards and Guidelines for Communication Sites (R56)		X
Ensure the resolution of environmental and hazardous material issues at each site including, but not limited to, asbestos, structural integrity (tower, rooftop, water tank, etc.), and other building risks.		X
Ensure that electrical service will accommodate installation of system equipment, including isolation transformers, circuit breakers, surge protectors, and cabling.		X
Provide obstruction-free area for the cable run between the demarcation point and system equipment.		X
Provide structure penetrations (wall or roof) for transmission equipment (e.g. antennas, microwave radios, etc.).		X
Supply interior building cable trays, raceways, conduits, and wire supports.		X
Deliverable: Sites meet physical requirements for equipment installation.		
SYSTEM INSTALLATION		
Equipment Order and Manufacturing		
Create equipment order and reconcile to contract.	X	
Manufacture Motorola Solutions-provided equipment necessary for system based on equipment order.	X	
Procure non-Motorola Solutions equipment necessary for the system.	X	
Deliverable: Equipment procured and ready for shipment.		
Equipment Shipment and Storage		
Provide secure location for solution equipment once shipped to field for installation.	X	
Pack and ship solution equipment to the identified, or site locations.	X	
Receive solution equipment.	X	
Inventory solution equipment.	X	
Deliverable: Solution equipment received and ready for installation		
Project Installation and Configuration		
Deliver solution equipment to installation location.	X	
Coordinate receipt of and inventory solution equipment with designated contact.	X	

Tasks	Motorola Solutions	Customer
Install all proposed fixed equipment as outlined in the System Description. Installation performed in accordance with R56 standards and state/local codes.	X	
Provide system interconnections that are not specifically outlined in the system design, including dedicated phone circuits, microwave links, or other types of connectivity.		X
Install and terminate all network cables between site routers and network demarcation points, including microwave, leased lines, and Ethernet.	X	
Ensure that Type 1 and Type 2 AC suppression is installed to protect installed equipment.		X
Connect installed equipment to the provided ground system.	X	
Label equipment, racks, and cables.	X	
Perform preliminary audit of installed equipment to ensure compliance with requirements and R56 standards.	X	
Note any required changes to the installation for inclusion in the "as-built" system documentation.	X	
Install Qty. 2 MCC7500E Consoles in the Detention Center Dispatch Room. Console equipment includes: ▪ (2) Z2 Mini Workstation ▪ (2) USB Audio Interface Module ▪ (2) 22inch Monitor ▪ (2) Dispatch Speaker Set ▪ (2) Footswitch ▪ (2) Gooseneck microphone ▪ (2) Headset jacks Identify circuits for connection to console and a demarcation point located within 25 feet of the console interface. Will use shielded CAT5e cables to connect the consoles to the equipment racks located in the back equipment room. ▪ Connect console to circuit demarcation points. ▪ Will Develop with the Detention Center template for console programming. ▪ Will perform console programming and configuration.	X	
Install the backroom equipment room in the rack(s): Tasks includes bolting the racks to the floor, installing intra-rack cabling per cabling diagrams (will be provided during install), grounding racks and equipment per R56 standards.	X	
Connect the equipment proposed in this offering to the proposed new UPS. Motorola is responsible for providing UPS for the backroom.	X	
Motorola is responsible for programming of the existing APX radios.	X	
Provide backhaul connectivity and associated equipment for all sites to meet latency, jitter and capacity requirements. This is in reference to Section Ethernet Link Requirements, in the system description above.		X
Verify site link performance, prior to the interconnection of the solution equipment to the link equipment.	X	
Provide required radio ID and alias information to enable alias database setup for interface to consoles.		X
Provide Console Template Approval.		X

Tasks	Motorola Solutions	Customer
Provide Console Radio Template Approval.		X
Provide Mobile Radio Template Approval.		X
Provide Portable Radio Template Approval.		X
Provide Console Programming.	X	
Provide Console Radio Programming.	X	
Provide Mobile Radio Programming.	X	
Provide Portable Radio Programming.	X	
Deliverable: Installation & Configuration completed.		
R56 Site Audit		
Perform R56 site-installation quality-audits, verifying proper physical installation and operational configurations.	X	
Deliverable: R56 Standards and Guidelines verification complete.		
Solution Optimization		
Verify that all equipment is operating properly, and that all electrical and signal levels are set accurately.	X	
Verify that all audio and data levels are at factory settings.	X	
Verify communication interfaces between devices for proper operation.	X	
Ensure that functionality meets manufacturers' specifications and complies with the final configuration established during design review or system staging.	X	
Deliverable: Completion of System Optimization.		
Functional Acceptance Testing		
Verify the operational functionality and features of the solution supplied by Motorola Solutions, as contracted.	X	
Witness the functional testing.		X
Document all issues that arise during the acceptance tests.	X	
If any major task for the system as contractually described fails during the Customer acceptance testing or beneficial use, repeat that particular task after Motorola Solutions determines that corrective action has been taken.	X	
Resolve any minor task failures before Final System Acceptance.	X	
Document the results of the acceptance tests and present for review.	X	
Review and approve final acceptance test results.		X
Deliverable: Completion of functional testing and approval by Customer.		
Coverage Testing		

Tasks	Motorola Solutions	Customer
No Coverage testing or guarantee has been included.		
PROJECT TRANSITION		
Cutover		
A finalized cutover plan.	X	X
Conduct cutover meeting, with relevant personnel to address both how to mitigate technical and communication problem impacts to the users during cutover and during the general operation of the system.	X	
Notify the personnel affected by the cutover of the date and time planned for cutover.		X
Provide ongoing communication with users regarding the project and schedule.	X	X
Cut over users and ensure that user radios are operating on system.		X
Resolve punchlist items, documented during the Acceptance Testing phase, in order to meet all the criteria for final system acceptance.	X	
Assist Motorola Solutions with resolution of identified punchlist items by providing support, such as access to the sites, equipment and system, and approval of the resolved punchlist items.		X
Deliverable: Migration to new system completed, and punchlist items resolved.		
Transition to Warranty		
Review the items necessary for transitioning the project to warranty support and service.	X	
Motorola Solutions to provide services during year 1 warranty which align with the proposed services.	X	
Provide a Customer Support Plan detailing the warranty support associated with the contract equipment.	X	
Participate in the Transition Service/Project Transition Certificate (PTC) process.		X
Deliverable: Service information delivered and approved by Customer		
Finalize Documentation and System Acceptance		
Provide manufacturer's installation material, part list and other related material to Customer upon project completion.	X	

Tasks	Motorola Solutions	Customer
Provide an electronic as-built system manual on CD or other Customer preferred electronic media. The documentation will include the following: ▪ Site Block Diagrams. ▪ Site Floor Plans. ▪ Site Equipment Rack Configurations. ▪ Antenna Network Drawings (where applicable). ▪ Functional Acceptance Test Plan Test Sheets and Results. ▪ Equipment Inventory List. ▪ Console Programming Template (where applicable). ▪ Maintenance Manuals (where applicable). ▪ Technical Service Manuals (where applicable). Drawings will be delivered in Adobe PDF format.	X	
Receive and approve documentation.		X
Execute Final Project Acceptance.	X	X
Deliverable: All required documents are provided and approved. Final Project Acceptance.		

SERVICE/WARRANTY

4.1 ADVANCE PLUS SERVICES OVERVIEW

In order to ensure that the Detention Center has immediate access to our on-site and technical support teams for both unforeseen issues and ongoing maintenance, Motorola Solutions proposes our Advance Plus Services offering to the Detention Center. Appropriate for customers who want to minimize their system's downtime, Advance Plus Services provide a reliable service response and restoral process remote assistance to address unforeseen network events, effect on-site repairs to network components, and deliver patches to keep the Detention Center's system secure. The proposed offering consists of the following specific services:

- Service Desk.
- Technical Support.
- On-site Support.
- Annual Preventative Maintenance.
- Network Hardware Repair.
- Network Hardware Repair with Advanced Replacement.
- Self-Installed Security Patches.

These services will be delivered to the Detention Center through the combination of local service personnel either dedicated to the network or engaged as needed; a centralized team within our Support Center (SSC), which operates on a 24 x 7 x 365 basis; and our Repair Depot, which will ensure that equipment is repaired to the highest quality standards. The collaboration between these service resources, all of who are experienced in the maintenance of mission-critical networks, will enable a swift analysis of any network issues, an accurate diagnosis of root causes, and a timely resolution and return to normal network operation.

4.2 ADVANCE PLUS SERVICES DESCRIPTIONS

4.2.1 Centralized Service Delivery

Centralized support will be provided by Motorola Solutions' support staff, located at our Service Desk and Solutions Support Center (SSC). These experienced personnel will provide direct service and technical support through a combination of Service Desk telephone support, technical consultation and troubleshooting through the SSC, and ongoing network monitoring of the Detention Center's system.

Motorola Solutions will provide **Service Desk** response as a single point of contact for all support issues, including communications between the Detention Center, third-party subcontractors and manufacturers, and Motorola Solutions. When the Detention Center's personnel call for support, the Service Desk will record, track, and update all Service Requests, Change Requests, Dispatch Requests, and Service Incidents using our Customer Relationship Management (CRM) system. The Service Desk is responsible for documenting the Detention Center's inquiries, requests, concerns, and related tickets; tracking and resolving issues; and ensuring timely communications with all stakeholders based on the nature of the incident.



As tickets are opened by the Service Desk, issues that require specific technical expertise and support will be routed to our Solutions Support Center (SSC) system technologists for **Technical Support**, who will provide telephone consultation and troubleshooting capabilities to diagnose and resolve infrastructure performance and operational issues. Motorola Solutions' recording, escalating, and reporting process applies ISO 90001 and TL 9000-certified standards to the Technical Support calls from our contracted customers, reflecting our focus on maintaining mission-critical communications for the users of our systems.

4.2.2 Field Service Delivery

On-site repairs and network preventative maintenance will be provided by authorized local field services delivery personnel, who will be dispatched from and managed by the Solutions Support Center.

On-Site Support provides local, trained and qualified technicians who will arrive at the Detention Center's location upon a dispatch service call to diagnose and restore the communications network. This involves running diagnostics on the hardware or Field Replacement Unit (FRU) in order to identify defective elements, and replacing those elements with functioning ones. The system technician will respond to the Detention Center's location in order to remedy equipment issues based on the impact of the issue to overall system function.

Annual Preventive Maintenance Service provides proactive, regularly scheduled operational testing and alignment of infrastructure and network components to ensure that they continually meet original manufacturer specifications. Certified field technicians perform hands-on examination and diagnostics of network equipment on a routine and prescribed basis.

4.2.3 Network Hardware Repair

Motorola Solutions' authorized Repair Depot will repair the equipment provided by Motorola Solutions, as well as select third-party infrastructure equipment supplied as part of the proposed solution. The Repair Depot will manage the logistics of equipment repair (including shipment and return of repaired equipment), repair Motorola Solutions' equipment, and coordinate the repair of third-party solution components.

Motorola Solutions also proposes **Network Hardware Repair with Advanced Replacement** to the Detention Center. With this additional service, Motorola Solutions will exchange malfunctioning components and equipment with advanced replacement units or Field Replacement Units (FRUs) as they are available in the Repair Depot's inventory. Malfunctioning equipment will be evaluated and repaired by the infrastructure repair depot and returned to the Repair Depot's FRU inventory upon repair completion. If the Detention Center prefers to maintain their existing FRU inventory, the Detention Center will be able to request a "loaner" FRU while their unit is being repaired.

4.2.4 Security Management Operations

The proposed **Self-Installed Security Patches Service** will provide the Detention Center with security updates that are pre-tested by Motorola Solutions and installed by the Detention Center's personnel. Motorola Solutions' dedicated vetting lab will pre-test security updates for the proposed ASTRO 25 system release. When appropriate, Motorola Solutions will make these updates available to outside vendors in order to enable them to test each patch, and will incorporate the results of those third-party tests into the updates provided to the Detention Center. Once an update is fully tested and ready for deployment in the Detention Center's system, Motorola Solutions will post it to a secured extranet website and send an email notification to the Detention Center. If there are any



recommended configuration changes, warnings, or workarounds, Motorola Solutions will provide detailed documentation for the Detention Center along with the updates on the website.

4.3 MOTOROLA SOLUTIONS' SERVICES CAPABILITIES

Our focus on the needs of our public safety partners has led us to recognize that an integrated implementation and service delivery team that takes a new system from system installation, to acceptance, to warranty, and all the way through extended maintenance, is the best way to ensure that public safety communications systems meet the needs of first responders. Motorola Solutions' team of experts, have developed refined processes and sophisticated tools through our experience in delivering mission-critical communications.

4.3.1 On-Call Support through the Solutions Support Center (SSC)

The cornerstone of our customer care process, our Solution Support Center (SSC) is staffed 24x7x365 by experienced system technologists. This TL 9000/ISO 9001-certified center responds to over 5000 public safety, utility, and enterprise customers. With over 100,000 phone and email interactions with Motorola Solutions customers per month, the SSC provides our customers with a centralized contact point for service requests.

4.3.2 On-Site Service through a Field Service Team

On-site maintenance and repair of the Detention Center's system will be provided by Motorola Solutions' local team of service personnel. Motorola Solutions will provide the Detention Center with a Customer Support Plan (CSP) that outlines the details of each service, provides escalation paths for special issues, and any other information specific to the Detention Center's service agreement. Some of these details will include items such as access to sites, response time requirements, severity level definitions, and parts department access information.

Local technicians will be dispatched for on-site service by the SSC, who will inform the technician of the reason for dispatch. This will enable the technician to determine if a certain component or Field Replacement Unit (FRU) will be needed from inventory to restore the system. Once on site, the field technician will notify the SSC and begin to work on the issue. The technician will review the case notes to determine the status of the issue, and begin the troubleshooting and restoration process. Once the system is restored to normal operation, the field technician will notify the SSC that the system is restored. The SSC, in turn, will notify the Detention Center that the system is restored to normal operation and request approval to close the case.

4.3.3 Centralized Repair Management through Motorola Solutions' Repair Depot

Our repair management depot coordinates component repair through a central location, eliminating the need to send system equipment to multiple vendor locations for repair. Once equipment is at the depot, technicians will replicate the Detention Center's network configuration in our comprehensive test labs in order to reproduce and analyze the issue. Technicians will then restore the equipment to working order. After repairs are completed, equipment will be tested to its original performance specifications and, if appropriate, configured for return to use in the Detention Center's system. All components being repaired are tracked throughout the process, from shipment by the Detention Center to return through a case management system where users can view the repair status of the equipment via a web portal.



4.3.4 Direct Access to System Information through MyView Portal

Supplementing Motorola Solutions' proposed services plan for the Detention Center is access to MyView Portal, the Motorola Solutions' online system information tool (see the figure titled "MyView Portal"). MyView Portal provides our customers with real-time visibility to critical system and services information, all through an easy-to-use, graphical interface. With just a few clicks, the Detention Center's administrators will gain instant access to system and support compliance, case reporting, ability to update and create cases, have visibility to when the system will be updated, and receive pro-active notifications regarding system updates. Available 24x7x365 from any web-enabled device, the information provided by MyView will be based on your needs and user access permissions, ensuring that the information displayed is secure and pertinent to your operations.



Figure 0-1: MyView Portal offers real-time, role-based access to critical system and services information.

PRICING SUMMARY

Motorola's system solution and services are priced as follows:

DESCRIPTION	QTY	PRICE
System Infrastructure		
1.0 - Master Site License	1	\$ 6,500.00
1.1 - Networking / Rack / Power Distribution	1	\$ 18,037.00
1.2 - RF Site - Expandable Site SubSystem - 2 Channels - Conventional	1	\$ 70,895.00
1.3 - TX / RX Master Antenna System	1	\$ 27,556.75
Dispatch Center Console Equipment		
2.0 - MCC 7500e Dispatch Positions AES (2)	1	\$ 95,028.00
2.1 - Network Logger	1	\$ 35,418.24
2.2 - Network Management Client	1	\$ 14,228.00
2.3 - Conventional Site Controller / Conventional Resources	1	\$ 50,262.00
2.4 - APX 8500 Consolletes - 7/800 MHz – AES - BRE SO (1) / Jail (5)	1	\$ 73,200.00
2.5 - APX 6500 Control Stations - 7/800 MHz - Fallback (2)	1	\$ 17,658.00
2.6 - Control Station Antenna Assemblies	1	\$ 13,530.00
2.7 - FRU - Field Replacement Package	1	\$ 14,150.00
Subscriber Equipment:		
3.0 - APX 6500 7/800 MHz - AES - Mobiles Phase 1	6	\$ 51,198.00
4.0 - APX 6000 7/800 MHz - AES - Portables - Phase 1	6	\$ 50,965.50
5.0 - APX 900 7/800 MHz - AES - Portables - Phase 1	300	\$ 1,249,425.00
6.0 - APX 900 - Multi-Unit Chargers - Phase 1	10	\$ 7,545.00
Systems Integration		
System Integration Services, including:	1	\$ 507,517.00
• Project Management	1	
• Motorola Engineering/System Technologist	1	
• Dispatch Center Removal, Templates, Programming, Installations, and Optimizations	1	
• Mobile Removal, Template, Programming and Installation Services	1	
• Portable Template and Programming Services	1	



• Mobile Template, Programming Services - Existing Fleet	1	
• Portable Radios Template and Programming Services - Existing Fleet	1	
• DAS - Distributed Antenna System:	1	
• Customer Training	1	
• Dispatch Center In-Warranty & Services - 24/7	1	
• System Upgrade Agreement for Current SUA4	1	
• Freight Services	1	
SYSTEM PRICING SUMMARY		
System Infrastructure	1	\$ 122,988.75
Dispatch Center Console Equipment	1	\$ 313,474.24
Subscriber Equipment	1	\$ 1,359,133.50
Systems Integration	1	\$ 507,517.00
Total System Price	1	\$ 2,303,113.49
TxDIR Contract # DIR-TSO-4101 Discount	1	\$ (433,524.90)
Special Trade-in Allowance for order by 06/28/2022	1	\$ (46,800.00)
Estimated Total System Price		\$ 1,822,788.59



SECTION 6

TERMS AND CONDITIONS

Terms and Conditions are included on the following pages.





Motorola Solutions, Inc.

Date: June 9, 2022

Financing proposal for: **Hidalgo County, TX**

Communications System Financing Proposal

Motorola Solutions Credit Company LLC is pleased to submit the following proposal for the financing of your Motorola Communications P-25 solution in accordance with the terms and conditions outlined below:

Transaction Type: Municipal Lease-Purchase Agreement

Lessor: Motorola Solutions, Inc. (or its Assignee)

Lessee: **Hidalgo County, TX**

Amount: \$1,822,788.59

Down Payment: \$0.00

Balance to Finance: \$1,822,788.59

Equipment: As per the Motorola equipment proposal.

Title: Title to the equipment will vest with the Lessee.

Insurance: Lessee will be responsible to insure the equipment as outlined in the lease contract.

Taxes: Personal property, sales, leasing, use, stamp, or other taxes are for the account of the Lessee.

Option One

Lease Term: Five Years

Payment Frequency: Annual

Payment Structure: Arrears

Lease Rate: 3.39%

Lease Factor: 0.220792

Lease Payment: \$402,456.86

Payment Commencement: First payment due one year after contract execution.

Expiration: This interest rate methodology is valid for all leases commenced by 6/28/2022



Indexing arrangement –Non bank qualified structure 5 year terms

The Lease Payments shall be calculated using a rate of interest ("Lease Rate") that is initially indexed to the five (5) year average life ICE Swap (the "Index Rate") as reported on the ICE swap rate historical rates. The average life ICE Swap corresponds to the respective lease term. The ICE Report can be accessed at the ICE web site: <https://www.theice.com/marketdata/reports/180>. On the Commitment Date, the final Lease Rate will be calculated by taking the Index Rate for that date from the ICE Report, plus a spread of 1.51% and multiplying the sum of those two numbers by .79 to calculate the Lease Rate for the 5 year term. The rates are then fixed for the full term of the Lease.

The following ICE average life Index Rates were in place at the approximate time this quote was issued:

5 year : 2.78%

Qualifications:

Receipt of a properly executed documentation package.

Lessee qualifies as a political subdivision or agency of the State as defined in the Internal Revenue Code of 1986. The interest portion of the Lease Payments shall be excludable from the Lessor's gross income pursuant to Section 103 of the Internal Revenue Code.

Receipt of a copy of the last years audited financial statements and current year's budget from the Lessee.

This proposal should not be construed as a commitment to finance. It is subject to final Motorola credit committee approval. This quote is based on the general level of interest rates, primarily U.S. Treasury Bills of like term maturity. Any movement in those rates in excess of 10 basis points will result in the revision of this quote.

Documentation:

Municipal Equipment Lease Purchase Agreement

Opinion of Counsel

Schedule A / Equipment List

Schedule B / Amortization Schedule

8038G

UCC-1

Certificate of Incumbency

Statement of Essential Use/Source of Funds

Evidence of Insurance or Statement of Self Insurance

Resolution from governing body authorizing the execution of the Lease

Please feel free to contact me if there are any questions or if an alternate structuring is required.

Regards,
Bill Stancik
Motorola Customer Financing
847-538-4531



OUR COMMITMENT

Motorola Solutions creates innovative, mission-critical communication solutions and services that help public safety and commercial customers build safer cities and thriving communities. You can find our products at work in a variety of industries including law enforcement, fire, emergency medical services, national government security, utilities, mining, energy, manufacturing, hospitality, retail, transportation and logistics, education, and public services.

Founded in 1928, Motorola Solutions has a history of innovation that has revolutionized communications. From pioneering mobile communications in the 1930s and making equipment that carried the first words from the moon in 1969, to supporting modern-day emergency response equipment for disaster relief efforts around the world, Motorola Solutions has a global footprint with products that demonstrate its thought leadership.

Throughout its history, Motorola Solutions has transformed innovative ideas into products that connect people to each other and the world around them. Moving forward, the company strives to keep its commitment of make things better and life easier, to make sound recommendations that will guide you in linking your current and future communication needs and objectives with technology's ever-evolving promise.



EXECUTED as of the day and year first written above.

APPROVED BY COMMISSIONERS' COURT ON June 28, 2022.

Agenda Item No. 86307

Executive Office: _____

ms

VENDOR:

MOTOROLA SOLUTIONS, INC

COUNTY:

COUNTY OF HIDALGO

Motorola Solutions Inc. Signature

Richard F Cortez

Hon. Richard F. Cortez, County Judge

APPROVED AS TO FORM

Office of the Criminal District Attorney,
Ricardo Rodriguez, Jr.

ATTEST:

Robert Viña III

Robert Viña III, Assistant District Attorney



Arturo Guajardo Jr

Arturo Guajardo, Jr., County Clerk

ATTACHMENTS:

(Not Applicable)