



Bryant City Council
Regular Meeting
September 15, 2020
Boswell Municipal Complex-City Hall Courtroom
6:30 PM

AGENDA

INVOCATION

PLEDGE OF ALLEGIANCE

CALL TO ORDER

PUBLIC COMMENTS

- *Public Comments should be limited the three (3) minutes per speaker*

NEW BUSINESS

Midtown Settlement

1. Ordinance Amending Ordinance 2011-3 For the Purpose of Reducing the Midtown Overlay District (with Emergency Clause)

Documents:

[Midtown Exhibit A 2.0\[25266\]\[90\].pdf](#)
[Ordinance to Reduce Midtown Overlay District 20-.pdf](#)

AWIN Tower

2. Discussion and Approval to move forward with contract negotiations with Motorola Solutions to improve emergency first responder broadcast capability within the city of Bryant.

Documents:

[City of Bryant ASR AWIN Site_3384393-AR19P113A_Proposal_26Jun2020 \(1\) \(1\).pdf](#)

MAYOR COMMENTS

COUNCIL COMMENTS

ADJOURNMENT

210 SW 3rd St.
Bryant, AR 72022
[\(501\)943-0999](tel:(501)943-0999)

Exhibit A

CORRECTION DEED
JOHN & JESSIE BULLOCK TO PAUL BULLOCK
A-27-84 D.B.387 PG.003

PROPERTY DESCRIPTION:
REPLAT OF LOTS 8-11, BLOCK 10, LOTS 3 AND 4, BLOCK 8, ALL IN MIDTOWN BRYANT, PHASE 1
BRYANT, ARKANSAS.

Midtown Overlay District to include everything inside the red line and shaded area.
Lots outlined in blue to be replated.



CERTIFICATIONS:

OWNER: GRAHAM SMITH
DEVELOPER: GRAHAM SMITH
Address: 12 PINE MANOR LITTLE ROCK, AR 72207
Address: 12 PINE MANOR LITTLE ROCK, AR 72207

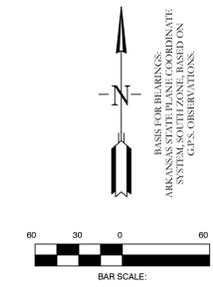
CERTIFICATE OF OWNER:
We, the undersigned, owners of the real estate shown and described herein do hereby certify that we have laid off, platted and subdivided, and do hereby lay off, plat and subdivide said real estate in accordance with the plat.
Date of Execution _____ Name: _____
Source of Title: Saline County Document # _____

CERTIFICATE OF FINAL SURVEYING ACCURACY:
I, Kyle Pennington, hereby certify that this plat correctly represents a survey completed by me, or under my supervision, that the boundary lines shown hereon correspond with the description in the deeds cited in the above Source of Titles; and that all monuments which were found or placed on the property are correctly described and located.
Date of Execution _____ Name: Kyle Pennington, Registered Professional Land Surveyor, No. 1807 Arkansas

CERTIFICATE OF FINAL APPROVAL:
Pursuant to the City of Bryant Subdivision Rules and Regulations, this document was given approval by the Bryant Community Services Director. All of the conditions of approval having been completed, this document is hereby accepted, and this certificate executed under the authority of said rules and regulations.
Date of Execution _____ Name: Bryant Community Services Director



By affixing my seal and signature, I Kyle Pennington PLS No. 1807, hereby certify that this drawing correctly depicts a survey compiled under my supervision.
NOTE: This survey was based on legal descriptions and title work furnished by others and does not represent a title search.
No portion of the property described hereon lies within the 100 year floodplain, according to the Federal Insurance Rate Map, panel #05119C0420G, Dated: 07/06/2015.



HOPE CONSULTING ENGINEERS - SURVEYORS
117 S. Market Street, Benton, Arkansas 72015
PH. (501) 315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
GRAHAM SMITH

REPLAT OF LOTS 8-11, BLOCK 10, LOTS 3 AND 4, BLOCK 8, ALL IN MIDTOWN BRYANT, PHASE 1, BRYANT, ARKANSAS.

DATE:	12-24-2019	C.A.D. BY:	B. JOHNSON	DRAWING NUMBER:	
REVISED:	09-03-2020	CHECKED BY:			07-0032
		SCALE:	1"=60'		

PLAT DEED PELTON AND RICARDO
81 BK.234 PG.482

STONEBROOK SUBDIVISION
PHASE 3
3-24-05 PLAT 05-28843
HOPE JOB 98-551

**CITY OF BRYANT
ORDINANCE 2020-_____**

**AN ORDINANCE AMENDING ORDINANCE 2011-3 FOR THE PURPOSE OF
REDUCING THE MIDTOWN OVERLAY DISTRICT**

WHEREAS, The City of Bryant established the Bryant Traditional Neighborhood Development Overly District (TND) by Ordinance 2007-39; and

WHEREAS, said ordinance provided, among other things, that properties may be added to or removed from the TND; and

WHEREAS, in Ordinance 2011-3 the City of Bryant removed specific property from the Bryant TND by amending Section 1 of Ordinance 2007-39 which established the Midtown Overlay District; and

WHEREAS, a lawsuit was initiated against the City of Bryant regarding the ownership of the streets in the Midtown Overlay District; and

WHEREAS, a negotiated settlement was reached in that litigation that included the Bryant City Council shrinking the Midtown Overlay district.

NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF BRYANT, ARKANSAS:

SECTION 1. That the City of Bryant, Arkansas hereby amends the described property from the Midtown Overlay District by amending Section 1 of Ordinance 2011-3 to include only the property outlined in Exhibit A hereby attached.

SECTION 2. That all ordinances and parts of ordinances of permanent and general nature in effect at the time of adoption of this ordinance, and not included herein, are hereby superseded where they are in conflict with this ordinance.

SECTION 3: Emergency Declared. This Ordinance is necessary to preserve the public peace, health, safety and welfare, an emergency is declared to exist and this Ordinance shall be in full force and effect from and after the date of its passage.

PASSED AND APPROVED THIS _____ DAY OF SEPTEMBER, 2020.

Mayor Allen Scott

ATTEST:

City Clerk Sue Ashcraft



CITY OF BRYANT, AR

NEW ASR SITE

JUNE 26, 2020

The design, technical, pricing, and other information ("Information") furnished with this submission is proprietary and/or trade secret information of Motorola Solutions, Inc. ("Motorola Solutions") and is submitted with the restriction that it is to be used for evaluation purposes only. To the fullest extent allowed by applicable law, the Information is not to be disclosed publicly or in any manner to anyone other than those required to evaluate the Information without the express written permission of Motorola Solutions.

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Section 3

Pricing Summary.....	Error! Bookmark not defined.
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1. ASTRO 25 NEW SITE DESCRIPTION

The City of Bryant requires a new 700MHz ASTRO P25 Site Repeater (ASR) at Pine Haven to enhance coverage within the city limits of Bryant. This will be an add-on site which will connect to the AWIN microwave backhaul through K23 Magnet site.

1.1 ASTRO 25 ASR Site

The proposed design is comprised of the following main components:

- One (1) six channel FDMA/TDMA ASR RF Site with enhanced data

This site will utilize an AVIAT licensed 6 GHz microwave hop to the Magnet site (K23), where it can provide backhaul connectivity into the AWIN Core.

The proposed design is comprised of the following main system components:

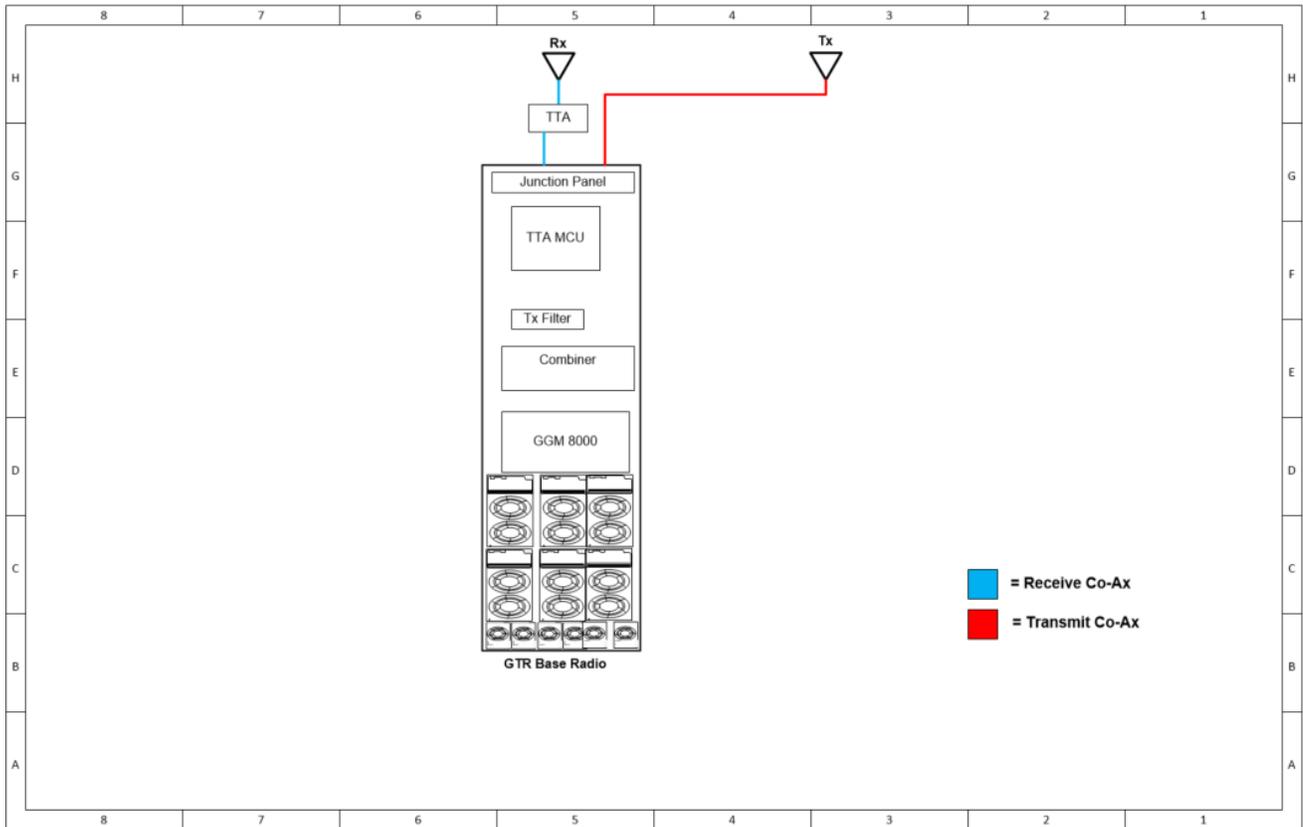
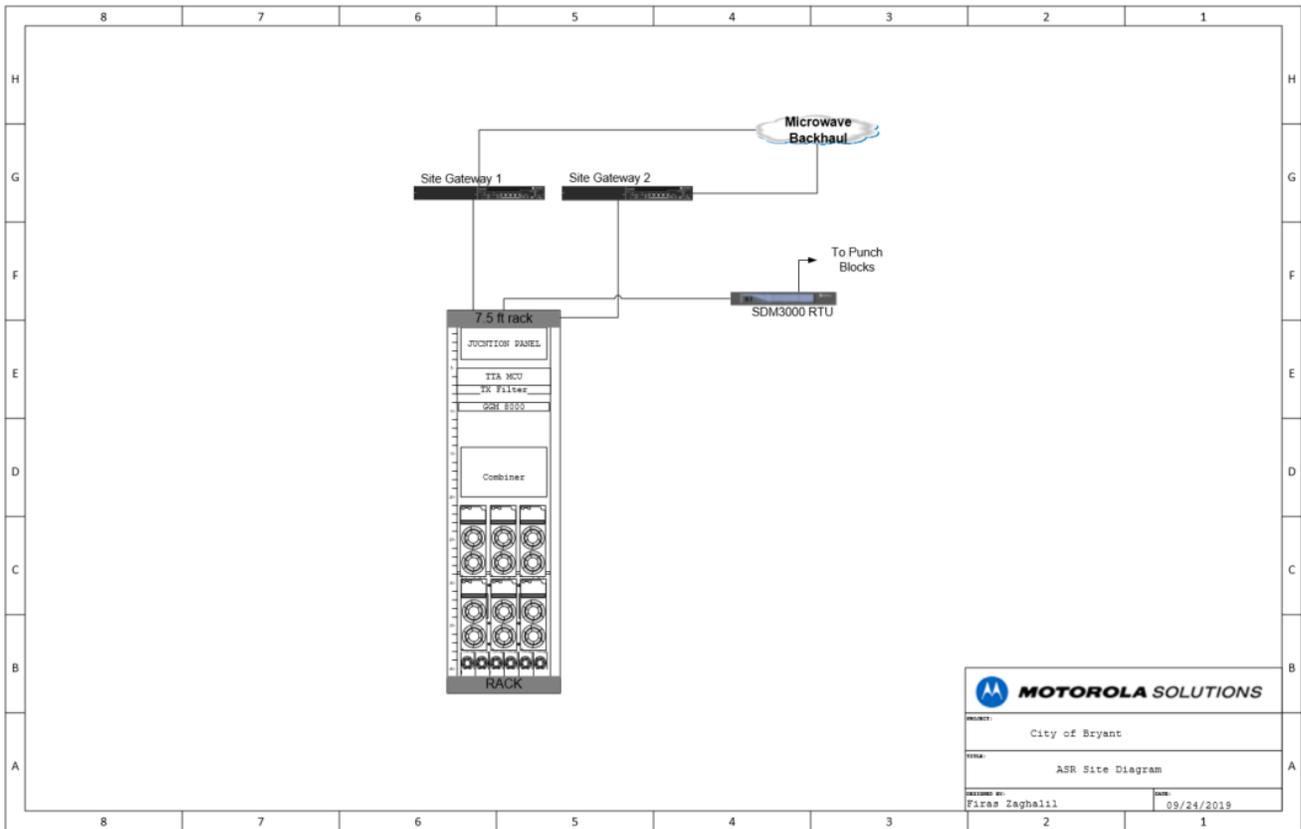
- Six-channel (6) GTR 8000 Expandable Site Subsystem (ESS) with TDMA and Dynamic Dual Mode on each channel
- Two (2) GGM 8000 site gateways
- Antenna System
 - The transmit antenna system will consist of one (1) 6 dB Gain antenna (RFI DSCC80706), and up to 230 feet of 1 1/4 inch transmission line with required connectors.
 - The receive antenna system will consist of one (1) 6 dB Gain antenna (RFI DSCC80706), one (1) tower top amplifier, up to 210 feet of 7/8 inch transmission line and a TTA Test line with required connectors.

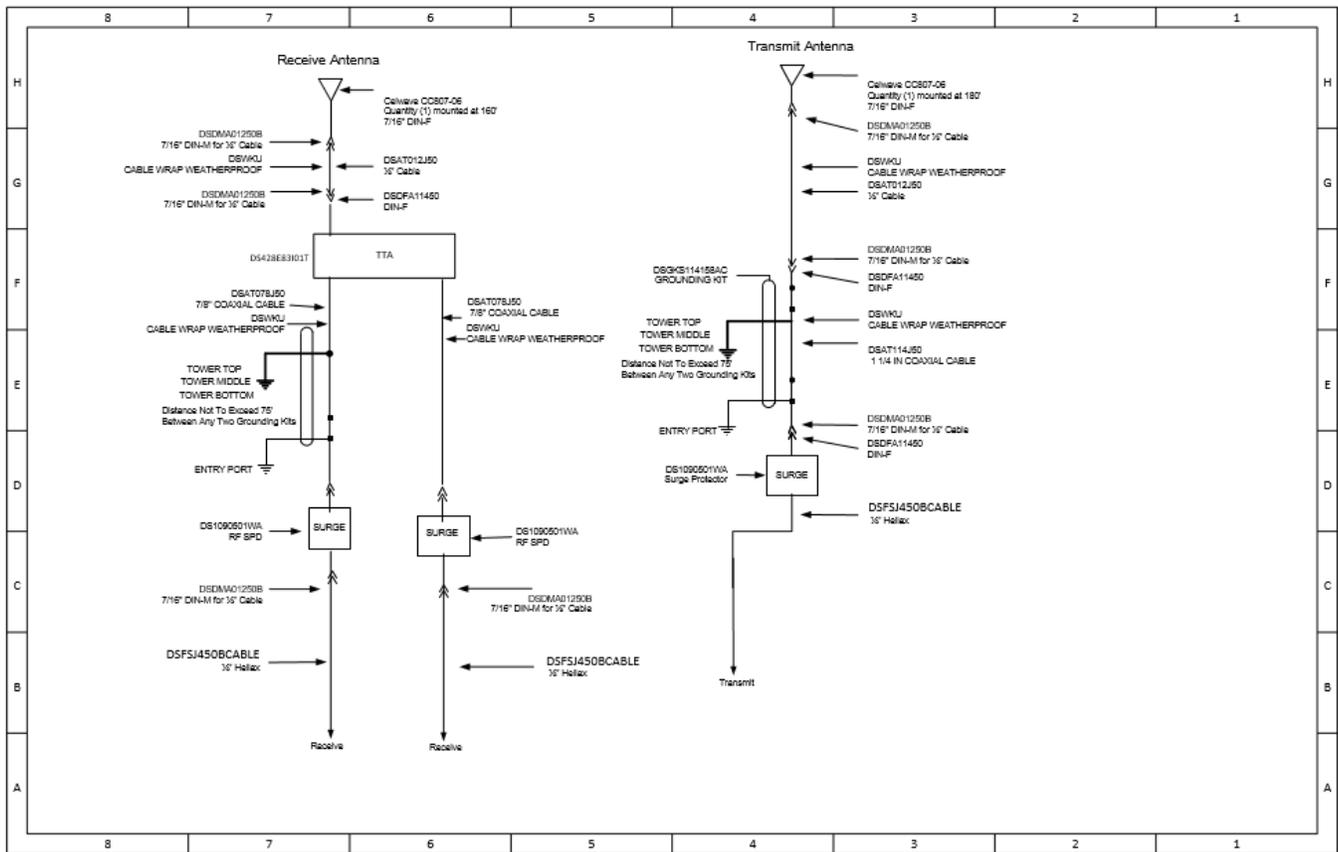
2. ASR DESCRIPTION

An ASR consists of a single site with two site controllers (in a redundant configuration), which can be housed in a GTR 8000 Expandable Site Subsystem (ESS).

The ASR consists of the following components, described in the Component Descriptions section of this System Description.

- GTR 8000 Expandable Site Subsystem (ESS).
- GTR 8000 Repeater/Base Radio.
- GCP 8000 Site Controller.
- Radio Frequency Distribution System (RFDS).
- GGM 8000 Site Gateway.





3. COMPONENTS

3.1 GTR 8000 Expandable Site Subsystem

The ESS enclosure contains GTR 8000 Base Radio, and GCP 8000 controllers, along with Radio Frequency Distribution System (RFDS).

3.2 GTR 8000 Site Repeater/Base Radio

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 via 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 (RMC/LNA).

3.3 GGM 8000 Gateway

The GGM 8000 Gateway is a modular multi-purpose network communications platform, designed to interconnect devices and networks within ASTRO 25 public safety network systems.

3.4 GCP 8000 Site Controller

The GCP 8000 Site Controller (GCP 8000) is the control interface between the transmitter/receiver subsystem and the Zone Controller. The GCP 8000 Site Controller comprises redundant site controller modules; one site controller module acts as the active module, and the second module acts as a standby. The redundancy minimizes the possibility of a single point of failure at the site.

The GCP 8000 provides the following functions:

- Manages the channels to maximize channel availability.
- Administers registration and context activation requests.
- Monitors base stations and RF distribution equipment.
- Provides redundant site control.
- Enables redundant site link routing for patch redundancy.

3.5 Radio Frequency Distribution System

- The Radio Frequency Distribution System (RFDS) provides interconnect between the base radios and antennas, allowing for a completely contained and more compact installation footprint. Bryant ESS will have an RF combiner.
- For the receivers, this will include duplexers, site preselectors, and multicouplers. Various RFDS options exist for each of the GTR 8000 Base Radio, GTR 8000 Site Subsystem, and GTR 8000 Expandable Site Subsystem.



STATEMENT OF WORK

1.1 OVERVIEW

This Statement of Work (SOW) describes the deliverables to be furnished to the City of Bryant, AR. The tasks described herein will be performed by Motorola, its subcontractors, and the City of Bryant, AR to implement the solution described in the System Description. It describes the actual work involved in installation, identifies the installation standards to be followed, and clarifies the responsibilities for both Motorola and Customer during the project implementation. Specifically, this SOW provides:

- A summary of the phases and tasks to be completed within the project lifecycle.
- A list of the deliverables associated with the project.
- A description of the responsibilities for both Motorola and the City of Bryant.
- The qualifications and assumptions taken into consideration during the development of this project.

This SOW provides the most current understanding of the work required by both parties to ensure a successful project implementation. In particular, Motorola has made assumptions of the sites to be used for the new system. Should any of the sites change, a revision to the SOW and associated pricing will be required. It is understood that this SOW is a working document, and that it will be revised as needed to incorporate any changes associated with contract negotiations, Contract Design Review (CDR), and any other change orders that may occur during the execution of the project.

Motorola is proposing the installation of a standalone 4-CH 800MHz Expandable Subsite System (ESS) repeater site. The ASR will provide City of Bryant with high-quality, mission critical two-way radio communications for areas currently needing increased coverage. This site will link to the AWIN Master in Little Rock via a 6GHz, microwave hop to the K23 Magnet site.

1.2 ASSUMPTIONS

Motorola has based the system design on information provided by City of Bryant and an analysis of their system requirements. All assumptions have been listed below for review. Should Motorola's assumptions be deemed incorrect or not agreeable to City of Bryant, 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.

- The City of Bryant is responsible for obtaining all site and tower lease agreements as well as any and all associated costs, if necessary.
- All sites will meet Motorola's R56Standards for Communications sites.
- The City of Bryant site will join AWIN master site via the proposed 6GHz microwave hop to the K23 Magnet site

- Adequate power is available to support the new equipment, as well as protected backup power.
- Any interference caused by an outside frequency is the sole responsibility of the City of Bryant; however, Motorola will work with the City of Bryant to find a viable solution if interference is found.
- The City of Bryant will be responsible for providing accessibility to all sites during installation.
- City of Bryant will be responsible for FCC frequency licensing.
- No subscribers or console equipment is contained in this proposal.
- The ASR will connect to the Zone 2 Master site through a Microwave Link.
- FAA study must be completed and certified for the proposed design. All provide coverage prediction maps are based upon the proposed design. If the tower or antenna configuration is altered, the coverage maps will be altered and new coverage maps will be provided.
- No Coverage Guarantee is provided

1.3 CONTRACT

1.3.1 Contract Award (Milestone)

- City of Bryant Police Department and Motorola execute the contract and both parties receive all the necessary documentation.

1.3.2 Contract Administration

Motorola Responsibilities:

- Assign a Project Manager, as the single point of contact with authority to make project decisions.
- Assign resources necessary for project implementation.
- Set up the project in the Motorola information system.
- Schedule the project kickoff meeting with the City of Bryant Police Department.

City of Bryant Responsibilities:

- Assign a Project Manager, as the single point of contact responsible for Customer-signed approvals.
- Assign other resources necessary to ensure completion of project tasks for which City of Bryant is responsible.

Completion Criteria:

- Motorola internal processes are set up for project management.
- Both Motorola and City of Bryant assign all required resources.
- Project kickoff meeting is scheduled.

1.3.3 Project Kickoff

Motorola Responsibilities:

- Conduct a project kickoff meeting during the CDR phase of the project.
- Ensure key project team participants attend the meeting.
- Introduce all project participants attending the meeting.
- Review the roles of the project participants to identify communication flows and decision-making authority between project participants.
- Review the overall project scope and objectives with City of Bryant.
- Review the resource and scheduling requirements with City of Bryant.
- Develop the Project Schedule with City of Bryant to address upcoming milestones and/or events.
- Review the teams' interactions (Motorola and City of Bryant), meetings, reports, milestone acceptance, and City of Bryant's participation in particular phases.

City of Bryant Responsibilities:

- City of Bryant's key project team participants attend the meeting.
- Review Motorola and City of Bryant responsibilities.

Completion Criteria:

- Project kickoff meeting completed.
- Meeting notes identify the next action items.

1.4 CONTRACT DESIGN REVIEW

1.4.1 Review Contract Design

Motorola Responsibilities:

- Meet with the City of Bryant project team.
- Review the operational requirements and the impact of those requirements on various equipment configurations.
- Establish a defined baseline for the system design and identify any special product requirements and their impact on system implementation.
- Review the System Design, Statement of Work, Project Schedule, and Acceptance Test Plans, and update the contract documents accordingly.
- Discuss the proposed Cutover Plan and methods to document a detailed procedure.
- Submit design documents to the Customer for approval. These documents form the basis of the system, which Motorola will manufacture, assemble, stage, and install.
- Finalize site development plan.
 - Determine each site's ability to accommodate proposed equipment based upon physical capacity.
 - *If applicable*, test existing equipment with which Motorola equipment will interface.
- Prepare Site Evaluation Report that summarizes findings of above-described site evaluations.
- Work with the City of Bryant to identify radio interference between the new communication system and other existing radio systems.

Restrictions:

- Motorola assumes no liability or responsibility for inadequate frequency availability or frequency licensing issues.
 - Motorola is not responsible for issues outside of its immediate control. Such issues include, but are not restricted to, improper frequency coordination by others and non-compliant operation of other radios.
 - Motorola is not responsible for co-channel interference due to errors in frequency coordination by APCO or any other unlisted frequencies, or the improper design, installation, or operation of systems installed or operated by others
- If, for any reason, any of the proposed sites cannot be utilized due to reasons beyond Motorola's control, the costs associated with site changes or delays including, but not limited to, re-engineering, frequency re-licensing, site zoning, site permitting, schedule delays, site abnormalities, re-mobilization, etc., will be paid for by the Customer and documented through the change order process.

City of Bryant Responsibilities:

- City of Bryant key project team participants attend the meeting.
- Make timely decisions, according to the Project Schedule.
- Frequency Licensing and Interference:
 - As mandated by FCC, City of Bryant, as the licensee, has the ultimate responsibility for providing all required radio licensing or licensing modifications for the system prior to system staging. This responsibility includes paying for FCC licensing and frequency coordination fees.
 - Provide the FCC "call sign" station identifier for each site prior to system staging.

Completion Criteria:

- Complete Design Documentation, which may include updated System Description, Equipment List, system drawings, or other documents applicable to the project.
- Incorporate any deviations from the proposed system into the contract documents accordingly.
- The system design is "frozen" in preparation for subsequent project phases such as Order Processing and Manufacturing.
- A Change Order is executed in accordance with all material changes resulting from the Design Review to the contract.

1.4.2 Design Approval (Milestone)

- City of Bryant executes a Design Approval milestone document.

1.5 ORDER PROCESSING

1.5.1 Process Equipment List

Motorola Responsibilities:

- Validate Equipment List by checking for valid model numbers, versions, compatible options to main equipment, and delivery data.
- Enter order into Motorola's Customer Order Fulfillment (COF) system.



- Create Ship Views, to confirm with City of Bryant the secure storage location(s) to which the equipment will ship. Ship Views are the mailing labels that carry complete equipment shipping information, which direct the timing, method of shipment, and ship path for ultimate destination receipt.
- Create equipment orders.
- Reconcile the equipment list(s) to the Contract.
- Procure third-party equipment if applicable.

City of Bryant Responsibilities:

- Approve shipping location(s).
- Provide storage /warehousing to ship the equipment

Completion Criteria:

- Verify that the Equipment List contains the correct model numbers, version, options, and delivery data.
- Trial validation completed.
- Bridge the equipment order to the manufacturing facility.

1.6 MANUFACTURING AND STAGING

1.6.1 Manufacture Motorola Fixed Network Equipment

Motorola Responsibilities:

- Manufacture the Fixed Network Equipment (FNE) necessary for the system based on equipment order.

City of Bryant Responsibilities:

- None.

Completion Criteria:

- FNE shipped to the staging facility for cabling.

1.6.2 Ship Equipment to Field

Motorola Responsibilities:

- Pack system for shipment to final destination.
- Arrange for shipment to the field.

City of Bryant Responsibilities:

- Provide storage facility for shipped equipment.

Completion Criteria:

- Equipment ready for shipment to the field.

1.7 CIVIL WORK

1.7.1 Site Development at City of Bryant ASR at Pine Haven

Construct a Shelter at the Pine Haven site. Tie to the AWIN Microwave network at the K23 Magnet site.

Site Scope Summary

- Engineering services for site drawings and regulatory approvals – Included.
- Site acquisition services – Not included
- Zoning Services – not included
- New UPS, size – 20KVA
- New power run – 150 feet, Electrical service type – Underground, 200-amp - 120/240-volt, single-phase.
- New shelter size – 12-foot x 10-foot.
- New fuel tank size – 500 gallons- , Type – Propane above-ground.
- New generator size – 35 kW, Type – Outdoor.
- Existing tower to be used for antennas – 200 ' Self supported Tower

Motorola Responsibilities:

Site Engineering

- Prepare site construction drawings showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the site (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility “may have a significant environmental impact” and thus require additional documentation, submittals, or work.
- Perform four point soil resistivity testing at the time of site visit.
- Perform an evaluation of the existing tower for conformance with the Telecommunications Industry Association/Electronics Industries Association (TIA/EIA 222) Standard for antenna configuration.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of City of Bryant. NOTE: This task does not include mapping, structural measurement survey, materials testing, geotechnical investigation, and/or



other field investigation to acquire the data. If applicable, these tasks will be noted separately in the SOW.

- Perform the structural redesign of the tower upgrade and provide sealed construction drawings and specifications for the necessary structural modifications as required
- Provide tower climbing and tower mapping services for towers up to 350 feet to collect information about structural members and existing equipment.
- Conduct dispersive wave testing of foundations for a three legged self-supported tower to determine their structural details for analysis when tower drawings are not available.
- Conduct construction inspection of foundation steel prior to pour, materials testing of concrete and field density tests of backfill to ensure quality construction.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

- Obtain the permits such as electrical, building, and construction permits, and coordinate any inspections with local authorities that may be needed to complete site development work.
- Provide one-time mobilization costs for the construction crews. Any remobilization due to interruptions/delays that are out of Motorola's control will result in additional costs.
- Supply and install gravel surfacing to a depth of 6 inches, including herbicide treatment and geotextile fabric installation within the fenced in site compound area, and a 3-foot path around it (not to exceed 440 square feet)

Site Components Installation

- Construct 1 reinforced concrete foundation necessary for a 12-foot x 10-foot shelter.
- Construct 1 concrete slab for 500 gallon above-ground Liquid Propane (LP) fuel tank at 3000 psi with reinforcing steel necessary for foundations.
- Construct 1 foundation for the 35 kW generator with reinforcing steel necessary for foundations.
- Supply and install 1 prefabricated concrete shelter 12-foot x 10-foot.
- Supply and install 1 500-gallon Liquid Propane (LP) fuel tank(s), fill it with fuel and connect it to the generator.
- Supply and install fuel tank monitors on the tanks to monitor low fuel in tanks and run alarm wiring to the building located within 50 feet of the tank.
- Supply and install 1 120/240-volt, 200-amp, single-phase meter pedestal and hookup for electrical service by the local utility.
- Provide all trenching, conduit, and cabling necessary for underground hookup of power to the shelter from nearby utility termination located within 150 cable feet of the shelter.
- Supply and install a perimeter grounding system around the compound and shelter. The ground system is to tie to the fence and all new metal structures within the compound to meet current Motorola's R56 standards.
- Conduct 1 three-point ground resistance test of the site. Should any improvements to grounding system be necessary after ground testing, the cost of such improvements shall be the responsibility of City of Bryant, Boauxite and Saline.

- Supply and install 1 freestanding 24-inch-wide cable/ice bridge from the tower to the shelter (up to 20 linear feet).

Tower Work

- Supply and install grounding for the tower base for self-supported towers

Antenna and Transmission Line Installation

- Install 2 antenna(s) for the RF system.
- Supply and install 2 heavy duty mount(s) for Bogner antennas.
- Install 1 tower top amplifier(s).
- Install 1 6-foot microwave dishes.
- Supply 1 dish mounts for 6-foot microwave dishes.
- Install up to 230 linear feet of 1/2-inch transmission line.
- Install up to 230 linear feet of 7/8-inch transmission line.
- Install up to 230 linear feet of 1-1/4-inch transmission line.
- Install up to 200 linear feet of EW63 waveguide for microwave dishes.
- Perform sweep tests on transmission lines.
- Perform alignment of each of 1 microwave paths to ensure that the microwave dishes are optimally positioned.
- Provide and install six hole hanger blocks and attachment hardware for supporting transmission lines on antenna support structure every three feet.
- Supply and install 1 ground buss bar at the bottom of the antenna support structure for grounding RF cables before they make horizontal transition.

Miscellaneous Work

- Private locates
- Additional Grounding enhancement around existing tower base and compound area
- Tower rigging plan
- Construction Administration

City of Bryant Responsibilities

- If required, prepare and submit Electromagnetic Energy (EME) plans for the site (as a licensee) to demonstrate compliance with FCC RF Exposure guidelines.
- As applicable, coordinate, prepare, submit, and pay for all required permits and inspections for the work that is the Customer's responsibility.
- Pay for all utility connection, pole or line extensions, and any easement or usage fees.
- Review and approve site design drawings within 7 calendar days of submission by Motorola or its subcontractor(s). Should a re-submission be required, the Customer shall review and approve the re-submitted plans within 7 calendar days from the date of submittal.
- Pay for the usage costs of power, leased lines both during the construction/installation effort and on an on-going basis.
- Pay for application fees, taxes and recurring payments for lease/ownership of the property.



- Provide personnel to observe construction progress and testing of site equipment according to the schedule provided by Motorola.
- As applicable (based on local jurisdictional authority), the Customer will be responsible for any installation or up-grades of the electrical system in order to comply with NFPA 70, Article 708
- Provide property deed or lease agreement, and boundary survey, along with existing as-built drawings of the site and site components to Motorola for conducting site engineering.
- Provide a right of entry letter from the site owner for Motorola to conduct field investigations.
- Maintain existing access road in order to provide clear and stable entry to the site for heavy-duty construction vehicles, cement trucks and cranes. Sufficient space must be available at the site for these vehicles to maneuver under their own power, without assistance from other equipment.
- Arrange for space on the structure for installation of new antennas at the proposed heights on designated existing antenna-mounting structures.
- Provide as-built structural and foundation drawings of the structure and site location(s) along with geotechnical report(s) for Motorola to conduct a structural analysis.

Assumptions:

- No prevailing wage, certified payroll, mandatory union workers or mandatory minority workers are required for this work
- All work is assumed to be done during normal business hours as dictated by time zone (Monday thru Friday, 7:30 a.m. to 5:00 p.m.).
- All recurring and non-recurring utility costs [including, but not limited to, generator fuel (except first fill), electrical, Telco] will be borne by the Customer or site owner.
- All utility installations shall be coordinated and paid for by the site owner and located at jointly agreed to location within or around the new communications shelter or equipment room.
- Site will have adequate electrical service for the new shelter and tower. Utility transformer, transformer upgrades, line, or pole extensions have not been included.
- Pricing has been based on National codes such as IBC or BOCA. Local codes or jurisdictional requirements have not been considered in this proposal.
- Hazardous materials are not present at the work location. Testing and removal of hazardous materials, found during site investigations, construction or equipment installation will be the responsibility of the customer.
- A maximum of 30 days will be required for obtaining approved building permits from time of submission, and a maximum of 60 days will be required for zoning approvals from time of submittal.
- No improvements are required for concrete trucks, drill rigs, shelter delivery, and crane access.

- The existing ground system and soil resistivity at the site is sufficient to achieve resistance of 10 ohms or less. Communication site grounding will be designed and installed per Motorola's R56 standards.
- The existing site has adequate room to expand and install the shelter, including lay-down and staging areas, without encroaching on wetlands, easements, setbacks, right-of-ways, or property lines.
- AM detuning or electromagnetic emission studies will not be required.
- Protective grating over microwave dishes or the communications shelter has not been included in this proposal.
- Structural and foundation drawings of the antenna support structure will be made available to preclude the need for ultrasonic testing, geotechnical borings or mapping of existing tower structural members.
- Lead paint testing of existing painted towers has not been included.
- On the existing tower, the antenna locations for the proposed antenna system design will be available at the time of installation.
- The new shelter can be located within 20 feet of the existing tower location and the generator/fuel tank can be located within 25 feet of the shelter.
- Restoration of the site surroundings by fertilizing, seeding, and strawing the disturbed areas will be adequate.
- Underground utilities are not present in the construction area and as such no relocation will be required.
- Motorola has not included any cost for structural or foundation upgrades to the antenna support structure. Once structural analysis is completed Motorola will provide findings to the Customer so that if upgrades are required both parties can determine the appropriate solution to move forward with the tower.
- The existing cable support facilities from the antenna to the cable entry port can be used for supporting the new antenna cables.

Completion Criteria

- Site development completed per issued for construction (IFC) construction drawings, project requirements, contractual obligations (including any customer/Motorola approved changes) and approved by City of Bryant, AR.
 - This shall be confirmed by contractor and reviewed with Motorola construction manager and project manager before inspections occur.
- All jurisdictional and contractual required testing and inspections to be performed by the contractor. (Contractual testing and inspections defined and agreed to with project team and customer prior to project kick off; vendor solely responsible for conducting, coordinating and paying for all jurisdictional testing and inspections).
- Motorola site development checklist shall be completed and signed off by contractor prior to customer inspection. (Review with project team and customer and amend checklist as required at project kick off or before work begins).



- Site turn-over package completed and turned over to Motorola (As defined and agreed to with project team and customer).
- All punch list and deficiencies shall be completed prior to customer and Motorola inspections.

1.8 SYSTEM INSTALLATION

1.8.1 Install Fixed Network Equipment

Motorola Responsibilities:

- Motorola will be responsible for the installation of all fixed equipment contained in the equipment list and outlined in the System Description based upon the agreed to floor plans, at the sites where the physical facility improvement is complete and the site is ready for installation. All equipment will be properly secured to the floor and installed in a neat and professional manner, employing a standard of workmanship consistent with its own R-56 installation standards and in compliance with applicable National Electrical Code (NEC), EIA, Federal Aviation Administration (FAA), and FCC standards and regulations.
- For installation of the fixed equipment at the Pine Haven and K23 Magnet sites, Motorola will furnish all cables for power, audio, control, and radio transmission to connect the Motorola supplied equipment to the power panels or receptacles and the audio/control line connection point.
- During field installation of the equipment, any required changes to the installation will be noted and assembled with the final 'as-built' documentation of the system.
- Receive and inventory all equipment.
- Bond the supplied equipment to the site ground system in accordance with Motorola's R56 standards.
- Will interface with the AWIN network at the (K23) Magnet site
- Will not remove existing equipment.
- Will not dispose of existing equipment.

City of Bryant Responsibilities:

- Provide secure storage for the Motorola-provided equipment. Motorola coordinates the receipt of the equipment with the City's designated contact, and inventory all equipment.
- Provide access to the sites, as necessary.

Completion Criteria:

- Fixed Network Equipment installation completed and ready for optimization.

1.8.2 Fixed Network Equipment Installation Complete

- All fixed network equipment installed and accepted by City of Bryant Police Department.

1.9 SYSTEM OPTIMIZATION

1.9.1 Optimize System FNE

Motorola Responsibilities:

- Motorola and its subcontractors optimize each subsystem.
- Verify that all equipment is operating properly and that all electrical and signal levels are set accurately.
- Verify that all audio and data levels are at factory settings.
- Check forward and reflected power for all radio equipment, after connection to the antenna systems, to verify that power is within tolerances.
- Check audio and data levels to verify factory settings.
- Verify communication interfaces between devices for proper operation.
- Test features and functionality are in accordance with manufacturers' specifications and that they comply with the final configuration established during the CDR/system staging.

City of Bryant Responsibilities:

- Provide access/escort to the sites.

Completion Criteria:

- System FNE optimization is complete.

1.9.2 Link Verification

Motorola Responsibilities:

- Perform test to verify site link performance, prior to the interconnection of the Motorola-supplied equipment to the link equipment.

City of Bryant Responsibilities:

- Make available the required links which meet the specifications supplied by Motorola at the CDR.

1.9.3 Completion Criteria:

- Link verification successfully completed.

1.10 AUDIT AND ACCEPTANCE TESTING

1.10.1 Perform R56 Installation Audit

Motorola Responsibilities:

- Perform R56 site-installation quality audits, verifying proper physical installation and operational configurations.
- Create site evaluation report to verify site meets or exceeds requirements, as defined in Motorola's Standards and Guidelines for Communication Sites (R56).

City of Bryant Responsibilities:

- Provide access/escort to the sites.
- Witness tests.

Completion Criteria:

- All R56 audits completed successfully.

1.10.2 Perform Equipment Testing

Motorola Responsibilities:

- Test individual components of the system to verify compliance to the equipment specifications.
- Repeat any failed test(s) once Motorola (or City of Bryant) has completed the corrective action(s).
- Prepare documentation of component tests to be delivered as part of the final documentation package.

City of Bryant Responsibilities:

- Witness tests if desired.

Completion Criteria:

- Successful completion of equipment testing.

1.10.3 Perform Functional Testing

Motorola Responsibilities:

- Verify the operational functionality and features of the individual subsystems and the system supplied by Motorola, as contracted.
- If any major task as contractually described fails, repeat that particular task after Motorola determines that corrective action has been taken.
- Document all issues that arise during the acceptance tests.
- Document the results of the acceptance tests and present to City of Bryant for review.
- Resolve any minor task failures before Final System Acceptance.

City of Bryant Responsibilities:

- Witness the functional testing.

Completion Criteria:

- Successful completion of the functional testing.
- City of Bryant approval of the functional testing.

1.10.4 System Acceptance Test Procedures (Milestone)

- City of Bryant approves the completion of all the required tests.

1.11 FINALIZE

1.11.1 Cutover

Motorola Responsibilities:

- Motorola and City of Bryant will mutually agree upon cutover plan based upon discussions held during the CDR.
- During cutover, follow the written plan and implement the defined contingencies, as required.
- Conduct cutover meeting(s) with user group representatives to address both how to mitigate technical and communication problem impact to the users during cutover and during the general operation of the system.

City of Bryant Responsibilities:

- Attend cutover meetings and approve the cutover plan.
- Notify the user group(s) affected by the cutover (date and time).
- Conduct a roll call of all users working during the cutover, in an organized and methodical manner.

Completion Criteria:

- Successful migration to the new system.

1.11.2 Resolve Punchlist

Motorola Responsibilities:

- Work with City of Bryant to resolve punchlist items, documented during the Acceptance Testing phase, in order to meet all the criteria for final system acceptance.

Customer Responsibilities:

- Assist Motorola with resolution of identified punchlist items by providing support, such as access to the sites, equipment and system, and approval of the resolved punchlist item(s).

Completion Criteria:

- All punchlist items resolved and approved by City of Bryant.

1.11.3 Transition to Service/Project Transition Certificate

Motorola Responsibilities:

- Review the items necessary for transitioning the project to warranty support and service.
- Provide a Customer Support Plan detailing the warranty and post-warranty support, if applicable, associated with the Contract equipment.

Customer Responsibilities:

- Participate in the Transition Service/Project Transition Certificate (PTC) process.

Completion Criteria:

- All service information has been delivered and approved by City of Bryant

1.11.4 Finalize Documentation

Motorola Responsibilities:

- Provide an electronic as-built system manual on a Compact Disc (CD). The documentation will include the following:
 - System-Level Diagram
 - Site Equipment Rack Configurations
 - Antenna Network Drawings for RF Sites
 - Equipment Inventory List
 - Maintenance Manuals
 - Technical Service Manuals

Drawings are created utilizing AutoCAD design software and will be delivered in Adobe PDF format. All other system manual documents converted from native format to Adobe PDF format to be included on the System Manual CD.

Customer Responsibilities:

- Receive and approve all documentation provided by Motorola.

Completion Criteria:

- All required documentation is provided and approved by City of Bryant.

1.11.5 Final Acceptance (Milestone)

- All deliverables completed, as contractually required.
- Final System Acceptance received from City of Bryant

1.12 PROJECT ADMINISTRATION

1.12.1 Project Status Meetings

Motorola Responsibilities:

- Motorola Project Manager, or designee, will attend all project status meetings with City of Bryant as determined during the CDR.
- Record the meeting minutes and supply the report.
- The agenda will include the following:
 - Overall project status compared to the Project Schedule.
 - Product or service related issues that may affect the Project Schedule.
 - Status of the action items and the responsibilities associated with them, in accordance with the Project Schedule.
 - Any miscellaneous concerns of either City of Bryant or Motorola.

Customer Responsibilities:

- Attend meetings.
- Respond to issues in a timely manner.

Completion Criteria:

- Completion of the meetings and submission of meeting minutes.

1.12.2 Progress Milestone Submittal

Motorola Responsibilities:

- Submit progress (non-payment) milestone completion certificate/documentation.

Customer Responsibilities:

- Approve milestone, which will signify confirmation of completion of the work associated with the scheduled task.

Completion Criteria:

- City of Bryant approval of the Milestone Completion document(s).

1.12.3 Change Order Process

- Either Party may request changes within the general scope of this Agreement. If a requested change causes an increase or decrease in the cost, change in system configuration or adds time to the project's timeline required to perform this Agreement, the Parties will agree to an equitable adjustment of the Contract Price, Performance Schedule, or both, and will reflect the adjustment in a change order. Neither Party is obligated to perform requested changes unless both Parties execute a written change order.

Example - Change Order Form



Microsoft Office
Word 97 - 2003 Docu

SECTION 2

WARRANTY

2.1 OVERVIEW

Motorola has over 75 years of experience supporting mission critical communications for public safety and public service agencies. Motorola's technical and service professionals use a structured approach to life cycle service delivery and provide comprehensive maintenance and support throughout the life of the system. The value of support is measured by system availability, which is optimized through the use of proactive processes, such as preventive maintenance, fault monitoring and active response management. System availability is a function of having in place a support plan delivered by highly skilled support professionals, backed by proven processes, tools, and continuous training.

2.2 THE MOTOROLA SERVICE DELIVERY TEAM

2.2.1 Account Services Manager

Your Motorola Account Services Manager provides coordination of support resources to enhance the quality of service delivery and to ensure your satisfaction. The Account Services Manager (ASM) is responsible to oversee the execution of the Warranty and Service Agreement and ensure that Motorola meets its response and restoration cycle time commitments. The ASM will supervise and manage the Motorola Authorized Servicer's functions.

2.2.2 Motorola System Technologists

The Motorola System Technologists (ST) are available to assist Motorola's Authorized Servicers when needed for network health and operations.

2.2.3 Motorola System Support Center

Located in Schaumburg, Illinois, the System Support Center (SSC) is a key component to the overall management and system maintenance. As detailed in this Customer Support Plan, the following services are provided by the System Support Center:

- Network Monitoring
- Dispatch Service
- Infrastructure Repair with Advanced Replacement
- Technical Support

2.2.4 Motorola Local Service Provider

Motorola's authorized service centers are staffed with trained and qualified technicians. They provide rapid response, repair, restoration, installations, removals, programming, and scheduled preventive maintenance tasks for site standards compliance and RF operability. Motorola's authorized service centers are assessed annually for technical and administrative competency.

Motorola places great emphasis on ensuring that communications systems, such as the one proposed for City of Bryant, AR meet high standards for design, manufacture, and performance. To enhance the value of the communications system being acquired, Motorola offers customized warranty and post-warranty services as outlined in this section.

2.3 WARRANTY SERVICES

Motorola will provide warranty services per our standard warranty terms and conditions as outlined within the Communication Systems Agreement within this proposal.

2.3.1 Dispatch Service

Motorola's Dispatch Service ensures that trained and qualified technicians are dispatched to diagnose and restore your communications network. Following proven response and restoration processes, the local authorized service center in your area is contacted and a qualified technician is sent to your site. An automated escalation and case management process is followed to ensure that technician site arrival and system restoration comply with contracted response and restore times. Once the issue has been resolved, the System Support Center verifies resolution and with your approval, closes the case. Activity records are also available to provide a comprehensive history of site performance, issues, and resolution.

2.3.2 On-Site Infrastructure Response

Motorola On-Site Infrastructure Response provides local, trained and qualified technicians who arrive at your location to diagnose and restore your communications network. Following proven response and restore processes, Motorola Dispatch contacts the local authorized service center in your area and dispatches a qualified technician to your site. An automated escalation and case management process ensures that technician site arrival and system restoration comply with contracted response times. The field technician restores the system by performing first level troubleshooting on site. If the technician is unable to resolve the issue, the case is escalated to the System Support Center or product engineering teams as needed.

2.3.3 Network Preventative Maintenance

Network Preventative Maintenance provides an operational test and alignment on your infrastructure or fixed network equipment to ensure that it meets original manufacturer's specifications. Trained technicians:

- Physically inspect equipment
- Remove dust and foreign substances
- Clean filters
- Measure, record, align and adjust equipment to meet original manufacturer's specifications

This service is performed based on a schedule agreed upon between you and Motorola. Network Preventative Maintenance proactively detects issues that may result in system malfunctions and operational interruptions.



2.3.4 Infrastructure Repair

Infrastructure Repair service provides for the repair of all Motorola-manufactured equipment, as well as equipment from third-party infrastructure vendors. All repair management is handled through a central location eliminating your need to send equipment to multiple locations.

Comprehensive test labs replicate your network in order to reproduce and analyze the issue. State-of-the-art, industry-standard repair tools enable our technicians to troubleshoot, analyze, test, and repair your equipment. Our ISO9001 and TL9000-certified processes and methodologies ensure that your equipment is quickly returned maintaining the highest quality standards.

Service agreements allow you to budget your maintenance costs on an annual basis. Equipment covered under service agreements also receives higher service priority, which results in quicker repair times.

2.3.5 Technical Support Service

Motorola Technical Support service provides an additional layer of support through centralized, telephone consultation for issues that require a high level of communications network expertise and troubleshooting capabilities. Technical Support is delivered by the System Support Center (SSC). The SSC is staffed with trained, skilled technologists specializing in the diagnosis and swift resolution of network performance issues. These technologists have access to a solutions database as well as in house test labs and development engineers. Technical Support cases are continuously monitored against stringent inbound call management and case management standards to ensure rapid and consistent issue resolution. Technical Support service translates into measurable, customer-specific metrics for assured network performance and system availability.

2.3.6 Network Monitoring Service

Network Monitoring Service can help keep your network at optimum availability so it is ready to serve mission critical communications needs. By watching over the network continuously, Network Monitoring Service takes action whenever needed, and resolves network problems. We often intervene and correct the problem before you even know a problem exists. Network Monitoring Service provides improved productivity and enhanced network performance, which in turn helps to increase your technology Return-On-Investment.

Using a combination of network monitoring software, automated alerts, and remote diagnostics inquiries, our System Support technologists actively monitor your network to maximize network uptime and overall preparedness...for the expected and unexpected. Upon receiving an alert, our team immediately performs a series of diagnostics to assess the problem. Often the situation can be resolved remotely, but when additional attention is required, local field technicians are dispatched immediately to your site to achieve restoration.

Motorola's Network Monitoring service is a vital component of an intelligent communication support plan that keeps your business operating smoothly, your costs down, and assures maximum preparedness at all times.

Specifically, Network Monitoring Service provides:

- Improved network availability

- Remote and timely resolution to minimize downtime
- Cost efficiencies
- Optimize time at site due to assessment and knowledge transfer before dispatch
- Minimize unnecessary trips to site
- Mitigate need for 24x7 operations monitoring center
- Detailed Reports

2.3.7 Security Monitoring Service

Security elements such as anti-virus, firewalls, and Intrusion Detection Systems (IDS) are a good first step, but they are not enough to secure your network. Radio network operators must take additional steps to reduce vulnerabilities to potential attack and protect critical radio network infrastructure. Motorola’s ASTRO 25 Security Monitoring is a complete solution that reduces the risk of network availability being impacted by a security threat. Specialized security analysts provide uninterrupted monitoring of the radio network security elements utilizing advanced correlation and visualization tools to detect, characterize, and respond to events that are specifically applicable to government and public safety radio networks. Our security analysts have direct and immediate access to Motorola engineers for rapid resolution. This level of service ensures the operational impact that security events may cause to your network are minimized or eliminated.

2.3.8 Security Update Service (SUS)

Commercial security software updates are often designed without RF systems in mind and could cause inadvertent harm to your radio network, disrupting mission-critical communications and putting your first responders and citizens at risk. The Motorola Security Update Service assures that commercial anti-virus definitions, operating system software patches, and Intrusion Detection Sensor signature files are compatible with your ASTRO 25 network and do not interfere with network functionality. Our expert network security technologists analyze, perform testing, and validate the latest security software updates in a dedicated test lab and provide continuous monitoring of updates to provide you regular electronic updates upon completion of successful testing.

Table 2-1: Security Update Services

	SUS
Anti-virus Definition Update	✓
Minor Release (patch release)	✓
Information Assurance Remediation	
Major Release (system release)	
Hardware Refresh	
Implementation Services	
Regional Partner Invoicing	available

- Anti-virus definitions and intrusion detection sensor updates for Motorola supplied equipment from applicable original equipment manufacturer.
- Minor releases may include commercial OS and application security updates, patches and service pack updates for Microsoft Windows and Server OS, Red Hat Linux, Sun Solaris and any Motorola software service packs that may be available.



- Recommendations for IA remediation may include, but is not limited to the following: provide security software updates; provide operating system security updates or patches; implement configuration changes; upgrade to a later ASTRO 25 System Release (upgrade expense not included), or recommending a compensating control.
- Regional partner invoicing provides ability to separate invoicing across multiple agencies.

2.4 POST WARRANTY SERVICES

As Motorola’s continuing commitment to supporting your system, warranty services can be extended after the first year to provide maintenance and service support in future years. Any of the services that we identify can be customized in future years, and are available for purchase either in “System Support Services” packages or as individual service offerings. These system support services significantly benefit the City of Bryant, AR because the system can be effectively supported after the warranty period, thereby maximizing the operational capabilities and useful life of the system and protecting your investment in the system.

Post-warranty support for infrastructure has been included with this offering and is priced in the pricing section notes. After the first year of warranty, site infrastructure maintenance and support will be transitioned to AWIN and NOT be the responsibility of the City of Bryant, AR. The City of Bryant, AR will be responsible for maintenance and support on their dispatch infrastructure after the warranty year. All subscribers, mobiles and portables will be shipped with a 3 year warranty

2.5 SUMMARY

Whether it’s a routine service call, or a disaster situation, Motorola understands its responsibility and takes pride in its commitment to deliver proven response service to the public safety community. Motorola has the capability to provide the technical, administrative, consultative, and maintenance repair services needed to support, enhance, and maintain the effectiveness of your communications network. Motorola’s goal is to provide the City of Bryant, AR with the qualified resources, to maintain and improve system operation and availability, and to deliver world-class service support.

- Warranty and Post Warranty Service support services to be delivered are outlined in Table 2-2.

Table 2-2: Warranty and Post Warranty Service Overview

Warranty and Post Warranty Service Overview	Warranty Year	Post Warranty Year
Dispatch Service	✓	
On Site Infrastructure Response	✓	
Network Preventative Maintenance	✓	
Infrastructure Repair	✓	
Technical Support Service	✓	
Network Monitoring Service	✓	
Security Monitoring Service	✓	
Security Update Service (SUS)	✓	
System Upgrade Agreement (SUA/SUA II)	✓	
Service from the Start - LITE	✓	

SECTION 3

PRICING SUMMARY

Motorola is pleased to provide the following equipment and services to City of Bryant.

Description	Discounted Price
<u>PINE HAVEN TOWER SITE ADD</u>	
Equipment	\$ 949,889.00
SI/ Service	<u>\$ 574,038.00</u>
Sub Total	\$ 1,523,927.00
Existing Tower	(\$ 125,349.00)
AWIN Customer Discount	(\$ 100,000.00)
September 21, 2020, Purchase Discount	<u>(\$ 90,000.00)</u>
Sub Total (Without Tax)	\$ 1,208,578.00
*Price includes 2 Control Stations, Lines and Antennas, Installation, and Programming at Bryant Street Department and Wastewater Treatment Plant.	
Note: The SI Services include engineering, installation, configuration, optimization, project management and first year warranty.	
<u>SUBSCRIBERS (NASPO Pricing)</u>	
Bryant Police Department (110 Subscribers)	\$ 536,082.70
Bryant Fire Department (53 Subscribers)	\$ 301,372.59
Bryant Public Works (13 Subscribers)	<u>\$ 34,157.24</u>
Subscriber Subtotal	\$ 871,612.53
Trade In Discount \$500 (1 for 1)	(\$ 88,000.00)
September 21, 2020, Purchase Discount	(\$ 35,000.00)
Subscriber Subtotal After Discounts	\$ 748,612.53
Subscriber Programming and Installation	<u>\$ 36,875.00</u>
Subscriber Total (Without Tax)	\$ 785,487.53
 <u>PROJECT TOTAL</u>	
Pine Haven Tower Site Add / Control Stations	\$ 1,208,578.00
Subscriber Total	<u>\$ 785,487.53</u>
Sub Total	\$ 1,994,065.53
Tax @ 9.88%	<u>\$ 197,013.67</u>
Total	\$ 2,191,079.20

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Warranty

