

**WRRS Western Counties Network Redesign**  
**Motorola Solutions Proposal 10/24/2019**

Approved by Executive Committee 02/20/2020

Project Total **\$311,140.00**

Financial Responsibility by Jurisdiction

|                      |                |                     |
|----------------------|----------------|---------------------|
| Burnet County        | 40.22%         | \$125,140.51        |
| Blanco County        | 14.01%         | \$ 43,590.71        |
| Llano County         | 22.46%         | \$ 69,882.04        |
| City of Marble Falls | 23.31%         | \$ 72,526.74        |
| <b>TOTALS</b>        | <b>100.00%</b> | <b>\$311,140.00</b> |

**Burnet County**

County Judge

Judge James Oakley

220 South Pierce Street

Burnet, Texas 78611

**Blanco County**

County Judge

Judge Bret Bray

101 W Pecan Dr.

Johnson City, Texas 78636

**Llano County**

County Judge

Judge Ron Cunningham

801 Ford Street, Room 101

Llano, Texas 78643

**City of Marble Falls**

Mayor

Mayor John Packer

800 3rd Street

Marble Falls, Texas 78654



# WESTERN COUNTY, TX

WESTERN COUNTIES NETWORK REDESIGN

OCTOBER 24, 2019

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October 24, 2019

Jim Barho  
Burnet County, Emergency Management Coordinator  
220 South Pierce Street  
Burnet, TX 78611

RE: Western Counties Network Redesign

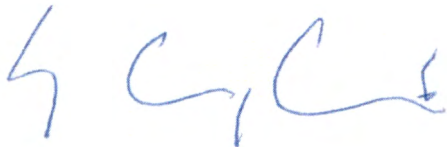
Dear Mr. Barho,

Motorola Solutions, Inc. (Motorola) is pleased to present to you the enclosed proposal for the Western Counties Network Redesign. The Proposal is based upon and subject to the terms and conditions of the DIR Agreement (DIR-TSO-4101) and consists of this cover letter, the Statement of Work, and Equipment List.

This proposal is subject to the terms and conditions of the Texas DIR-TSO-4101 contract and remains valid for a period of ninety (90) days from the date of this letter. This proposal may be accepted by issuing a purchase order that specifically references "the terms and conditions of the Texas DIR-TSO4101 contract." Motorola would be happy to discuss any concerns the County may have with the Proposal.

For any issues or concerns please contact your Account Manager, Ben Zotyka, at (832)657-5086.

Sincerely,  
MOTOROLA SOLUTIONS, INC.



Clay Cassard  
Area Sales Manager

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SECTION 1

# SYSTEM DESCRIPTION

## 1.1 SYSTEM OVERVIEW

Motorola is pleased to provide the Western Counties Consortium with a network redesign to mitigate the issue that are being experienced due the existing spanning tree network design over the leased line. Motorola is proposing replacing the backhaul switches with backhaul routers at the minimum number of sites: 281N, Lone Grove, Fowler, Round Mountain, Mustang, and LCRA sites. The solution shall provide layer 3 routing capability for the backhaul network and remove spanning tree protocol on the network.

## 1.2 SYSTEM DESIGN

Motorola's proposed solution shall replace the backhaul switches with Juniper MX104 routers at the following sites:

- 281N
- Lone Grove
- Fowler
- Round Mountain
- Mustang
- LCRA

The Western Counties network subsystem shall be reconfigured to a layer 3 network to mitigate the spanning tree protocol issue over the leased line. The spur sites shall be reconfigured to point to the nearest site on the ring with a backhaul router.

A total of 6 Juniper MX104 is included with the proposal with 25 copper SFP. The solution leverages the existing GATRRS backhaul router at the core with the addition of the SFP included in this proposal to accommodate the new Layer 3 network paths.

The following diagram provides a high level overview of the network redesign.

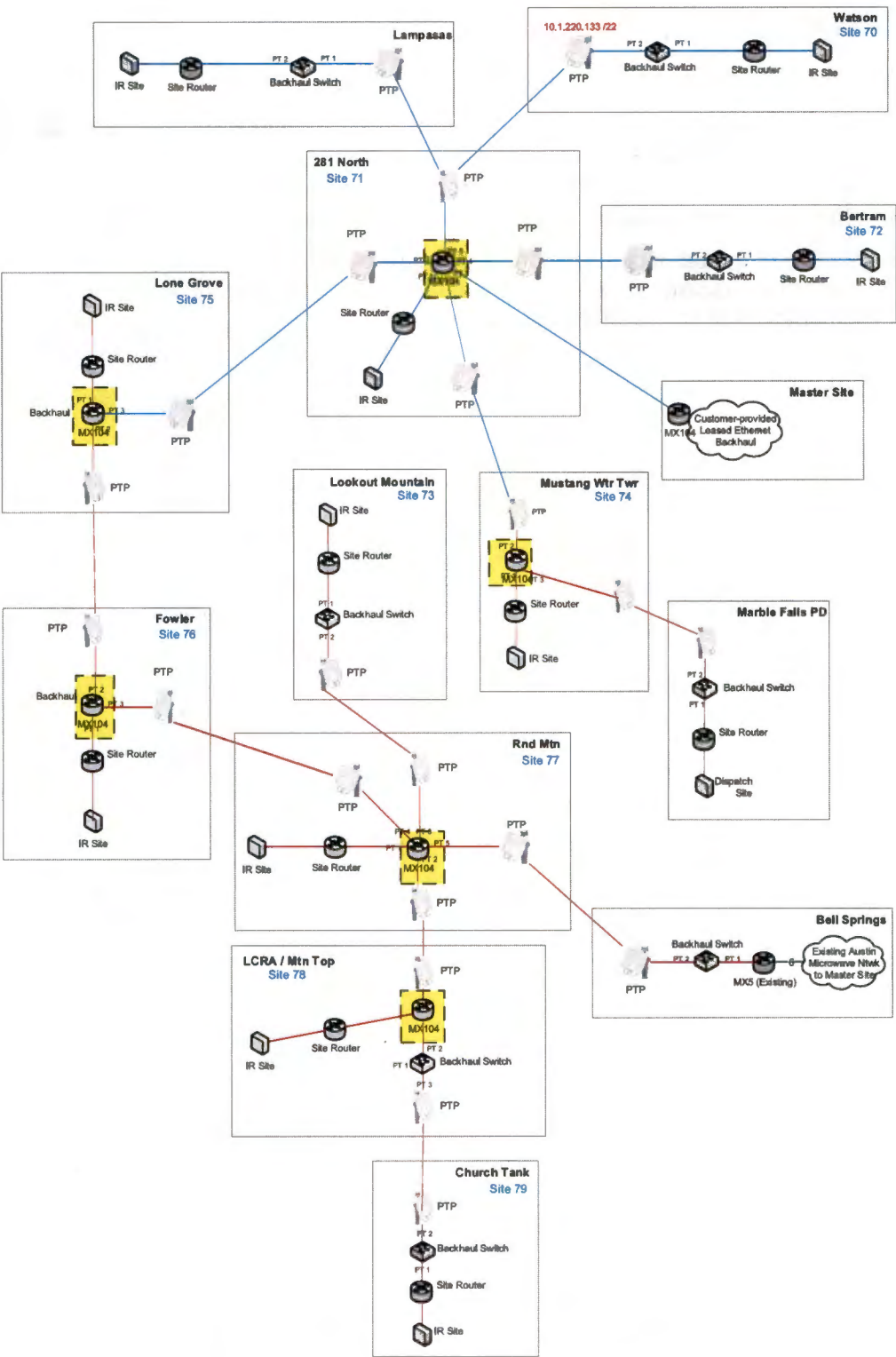


Figure 1-1: Western Counties Network Design

## 1.3 INSTALLATION PLAN

Motorola has provided a high level plan of the network redesign:

- Install router at 281N and SFP at the core. 281N routing over new path. The Spurs continue to communicate over E-tree L2.
- Reconfigure each spur site and add to the layer 3 network.
- Continue reconfiguration of the sites around the ring.

Installation of the proposed solution requires the sites to be down temporarily. Motorola will work with the customer to come up with a plan to provide minimal downtime during the implementation of the network redesign at each site.



SECTION 2

# EQUIPMENT LIST

| QTY | DESCRIPTION                                                     |
|-----|-----------------------------------------------------------------|
| 6   | MX104 - MX5, 20X1GE, 1 S-MIC SLOTS AC                           |
| 12  | 2.5M 13A/125V PWR CORD AC C15M STRAIGHT NEMA N5-15 TO HIGH TEMP |
| 5   | JUINPER CARE NEXT DAY SUPPORT MX104-MX5-AC/DC                   |
| 25  | SFP 10/100/1000 COPPER                                          |



SECTION 3

# STATEMENT OF WORK

Motorola is proposing to Western County the installation and configuration of new Juniper MX104 routers for the network redesign to provide a layer 3 routing capability for the backhaul network and thus removing the spanning tree protocol currently on the network. The following sites will have the new routers install:

- 281N
- Lone Grove
- Fowler
- Round Mountain
- Mustang
- LCRA

The document delineates the general responsibilities between Motorola and Western County as agreed to by contract.

## 3.1 MOTOROLA RESPONSIBILITIES

Motorola's general responsibilities include the following:

- Perform the installation of qty. 6 Juniper MX104 routers and the above sites specified in this proposal.
- Motorola will reconfigure the network subsystem to a layer 3 network. The spur sites will be reconfigured to point to the nearest site on the ring with a backhaul router.
- Schedule the implementation in agreement with Western County.
- Coordinate the activities of all Motorola subcontractors under this contract.
- Administer safe work procedures for installation.
- Provide Western County Western County, TX with the appropriate system interconnect specifications.

## 3.2 WESTERN COUNTY, TX RESPONSIBILITIES

Western County will assume responsibility for the installation and performance of all other equipment and work necessary for completion of this project that is not provided by Motorola. General responsibilities for Western County include the following:

- Insure communications sites meet space, grounding, power, and connectivity requirements for the installation of all equipment.
- Obtain all licensing, site access, or permitting required for project implementation.
- Obtain frequencies for project as required.
- Customer will provide a dedicated delivery point, such as a warehouse, for receipt, inventory and storage of equipment prior to delivery to the site(s).
- Coordinate the activities of all Western Counties vendors or other contractors.



### 3.3 PROJECT ASSUMPTIONS

Motorola has based the system design on information gathered from meeting with Western Counties and Austin. All assumptions have been listed below for the Western Counties' review. Should Motorola's assumptions be deemed incorrect or not agreeable to Western Counties, a revised proposal with the necessary changes and adjusted costs will be required. Changes to the equipment or scope of the project after contract will require a change order. Refer to the Statement of Work for the specific list of responsibilities to be performed by Western Counties and Motorola.

This section outlines the assumptions and dependencies used in developing the proposed solution.

- Motorola assumes available rack spaces is available at the site mentioned in the design above to install the Juniper Routers.
- Motorola assumes available electrical circuit and breaker is available for the proposed routers. Each router requires 2 electrical circuits.
- Motorola assumes that this solution will leverage the existing GATTS backhaul router at the core.
- Motorola assumes the site is up and operational at the time of implementation to mitigate any other possible issues with the site.
- No coverage guarantee is included in this proposal.
- Any site/location upgrades or modifications are the responsibility of the customer.
- All existing sites or equipment locations will have adequate electrical power in the proper phase and voltage and site grounding to support the requirements of the system described.
- No coverage guarantee is included in this proposal.

SECTION 4

# SERVICE/WARRANTY

One Year of the Juniper Care Next day support has been included in this proposal. This support gives access to technical support, software release, and online support. Your Customer Service Manager (CSM) will work with Western Counties to incorporate the juniper routers into the annual service contract at time of renewal.



SECTION 5

# PRICING SUMMARY

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

Total solution price per equipment and services outlined in this proposal

| Description                                      | Price               |
|--------------------------------------------------|---------------------|
| Western Counties Network Redesign                |                     |
| System Total (Services & Equipment)              | \$232,428.00        |
| DIR Contract Discount                            | (\$ 27,450.00)      |
| <b>TOTAL</b>                                     | <b>\$204,978.00</b> |
| <i>Project price breakdown:</i>                  |                     |
| <i>Equipment</i>                                 | \$63,220.00         |
| <i>Services</i>                                  | \$141,758.00        |
| <i>Post Warranty Maintenance/Support yrs 2-5</i> | \$106,162.00        |
| <b>PROJECT TOTAL</b>                             | <b>\$311,140.00</b> |

## 5.1 PAYMENT TERMS

### System Purchase

1. 50% of the system price is due upon Contract Execution.
2. 50% of the system price is due upon Final Acceptance.

For Lifecycle Support Plan and Subscription Based Services:

Motorola will invoice Customer annually in advance of each year of the plan.

