



Prepared by:

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CITY OF MARGATE 800 MHZ TOWER INFRASTRUCTURE PROJECT PROPOSAL

Tower and shelter located at 5400 NW 15th St. Margate, FL 33063

May 25, 2021

Valid Until July 25, 2021

Introduction

This scope of work (SOW) describes the products and services requested by Gia Shaw, Public Safety Communications Manager, Margate Fire and Police Department, City of Margate, Florida (Customer) to provide a proposal for an 800MHz Radio Communications Tower Site.

This SOW may be revised during contract negotiations and through any other official change orders that may occur during the project.

This SOW outlines the tasks to be performed by Signal Communications LLC (Signal) and by the Customer.

Overview

The purpose of this project is to install an 800MHz repeater and antenna system at the tower and shelter located at 5400 NW 15th St. Margate, FL 33063. This system will provide a wide area radio signal for use in the City of Margate. All following requirements, assumptions, and responsibilities are set forth in order to meet all City of Margate requirements. All engineering assumptions for tower, shelter, and system performance are made to meet Motorola R56 Standards.

Signal's Scope of Work

- Signed and Sealed Engineering Design
- Produce construction drawings (CDs)
- Permitting fees (\$2,000 allowance)
- Permitting services
- 4 800MHz Rack Mounted Repeaters
- Backup battery, rack mounted
- Tower mounted antennas
- Shelter mounted antenna system components
- Cables, splitters, jackets, multi-couplers, connectors, lightning protection
- Miscellaneous mounting and installation equipment
- Tower shelter required electrical upgrades
- R56 audit and report
- Project management
- Install, ground, and optimize all applicable equipment
- Coordinate and attend all inspections
- Provide pricing on maintenance agreement
- Coordinate with any other required contractors, to ensure project completion and beneficial use of the system
- Supply requested battery packs: part number PMNN4486A x 100
- Supply requested 6-slot multi unit chargers: part number NNTN8897A x 5
- Supply requested APX7000 low profile antennas: part number NAR6595A x 50

Customer's Responsibilities

- Provide MOU with City of Coral Springs for shelter access and use
- Provide tower lease with Crown Castle
- Provide acceptable working hours for installation crew
- Provide access to all required areas for installation crew during agreed upon working hours (any lost time due to access issues is billed at \$150.00 per man hour)
- Program subscriber units as required

Other Assumptions

- Existing FCC licensing in place and valid. No FCC licensing work is included in this proposal.
- Pricing and installation agreement is subject to change if the Authority Having Jurisdiction (AHJ) changes installation requirements
- System installation will begin when all equipment has been received, all required equipment/site tests have been performed, permits have been issued, and site leases/access have been finalized
- A one year parts and labor warranty will commence upon acceptance of the system by the customer, physical damage or acts of God not included
- Any substitute equipment must be submitted via official change order and be approved by Signal
- The project will be considered completed at final permit closure or beneficial use of the system, whichever comes first
- Performance bond or similar not included
- Prevailing wage and certified payroll not included

- Cost of insurance beyond Signal's current limits is not included
- No Crown Castle Fees included
- Sales tax or any other fees or taxes are not included unless specially listed

Here's why you should work with Signal Communications on this project:

- Signal has been successfully designing and installing systems of this type for decades, working closely with public safety agencies and others throughout the wireless community
- Signal has been in business for 30 years, since 1991, by making sure projects like this deploy properly and technically correct
- Great customer references are available at your request

Pricing:

CATEGORY	DESCRIPTION	PRICE
Equipment	Four Motorola SLR 8000 100 Watt Repeater, 800MHz Combiner, 800MHz Multicoupler, two 800MHz Dual Port 9 dBd Collinear Antenna, HELIAX Coaxial Cable, Connectors, Jackets, Mounting Equipment, Equipment Rack, Uninterrupted Power Supply (UPS)	\$50,627.00
Services	System engineering, System design, Stamped and sealed plans, Permit fees, Permitting services, Electrical work, Equipment installation, Project management, System optimization, R56 audit, Post work clean up, and shipping	\$47,950.00
Motorola Parts	PMNN4486A: QTY 100: 3400MaH APX 7000 Battery Packs: \$135.99 each. Sub total: \$13,599.00 NNTN8897A: QTY 5: APX 7000 Multi Unit Chargers with Display: \$847.00 each. Sub total: \$4,235.00 NAR6595A: QTY 50: APX 7000 Antenna ¼ wave 7/800 Stubby: \$25.00 each. Sub total: \$1,250.00	\$19,084.00
Total:		\$117,661.00

Payment Terms

50% at time of order. Balance due at system completion defined as beneficial use.

Customer Signature: _____ Date: _____

Signal Signature: _____ Date: _____