



Dodge County Nebraska: Replacement Tower Douglas Site Update

Date: June 8, 2021

To: Dodge County NE Board of Supervisors and Project Team Members

To All:

This report is being provided as a Status Update on the Dodge County Nebraska Public Safety radio system “sub project” of the procurement of a replacement tower at the Douglas PSAP site to support connectivity to the ORION Core Routers.

In this project it was determined that the existing tower located at the Douglas County PSAP was insufficient and unusable for the new P25 radio system in the support of microwave connectivity between the two counties. Many alternatives ranging from upgrading the old tower to no microwave at all, using instead local fiber facilities. Both of these options came out to be prohibitive in cost and/or simply a poor choice on which to use tax dollars.

The ultimate solution is to replace the old tower at the Douglas Site with a new tower specifically designed to replace the overloaded tower at Douglas.

A bid spec was created and distributed to 16 potential industry firms. Of the 16, ultimately only 3 were really interested, and responded. The firms are High Tower, Sabre, and Murphy Tower.

The description of the project, from the RFP:

Project Summary

The County government agency of Dodge County, Nebraska (herein referred to as “the County”), desires to purchase and implement 1 new replacement self-support radio communications tower for their current public safety radio communications project.

This new tower will replace the existing self-support/wall bracketed structure adjacent to the Douglas County PSAP. This self-support in existing use will be removed by the vendor awarded this project.

There will be 1 NEW single self-support structure, provided, and it will be located at the DOUGLAS COUNTY PSAP in Omaha. It will stand alone with no support connection to the adjacent PSAP building.

The tower obtained via this project shall be designed to the existing TIA/EIA-222 version “H” specifications (latest building code).

The County is soliciting sealed responses for the following tower and construction work. A map of the site is provided in the appendix section of this RFP.

The Vendors participating:

Sabre Industries
7101 Southbridge Drive
Sioux City, Iowa 51102

High Maintenance and Mod's
15225 Hwy 36
Bennington, Nebraska 68007

Murphy Tower Service LLC
20220 Hwy 5
Carlisle, Iowa 50047

Pricing for project as submitted to Dodge County:

Item No	Item Description	High Tower	Sabre	Murphy Tower
	Vendor HQ Location	Bennington NE	Sioux City IA	Carlisle IA
	Douglas County PSAP: Supply and Install 60-ft Self-Supporting Tower			
1	Tower Manufacturer/Supplier	Sabre S3TL	Sabre S3TL	Sabre S3TL
2	Site Contractor	High Tower	Sabre Subs	Murphy
3	Foundation Type	Drilled Pier	Drilled Pier	Drilled Pier
4	Tower Structure Materials	\$ 16,054	\$ 12,366	\$ 18,325
5	Foundation Materials and Installation	\$ 20,290	\$ 21,429	\$ 9,550
6	Tower Erection	\$ 9,000	\$ 15,893	\$ 6,950
7	Tower Inspections	\$ 1,000	\$ 1,667	\$ 1,650
8	Delivery/Freight	\$ 5,565	\$ 4,140	\$ 4,140
9	Performance Bond	\$ 2,860	\$ 1,511	\$ 2,915
10	Antenna and line material and installation	\$ 21,075	\$ 19,465	\$ 60,770
11	Grounding	\$ 6,325	\$ 4,167	Incl in #10
12	Civil	\$ 13,809	\$ 11,906	Incl in #10
	Other	\$ 294	\$ 7,739	Incl in #10
	Dodge County - Pricing Summary	\$96,272	\$100,283	\$104,300

All of the bidders are offering the same tower steel, the difference in the pricing between all of them is based on their needed expenses to do the services to install, supply materials for replacement transmission lines, and removal of the old structure.

As a result of this procurement process, it is recommended that the project be awarded to High Tower Maintenance and Mod's at the full project price of \$96,272.00

Regards



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