



500 West Big Beaver
Troy, MI 48084
troymi.gov

CITY COUNCIL AGENDA ITEM



Date: May 24, 2021

To: Mark F. Miller, City Manager

From: Robert J. Bruner, Assistant City Manager
Rob Maleszyk, Chief Financial Officer
Lisa Burnham, Controller
Frank Nastasi, Police Chief
Kurt Bovensiep, Public Works Director
Dennis Trantham, Facilities and Grounds Operations Manager
Chris Culbreth, Police IT Manager
Emily Frontera, Purchasing Manager

Subject: Budget Amendment and Standard Purchasing Resolution 4 – Oakland County
Purchasing Cooperative – Police Department Dispatch Electrical Grounding Upgrade

History

Troy PD operates a Public Safety Answering Point (PSAP) for 24/7/365 coverage of all first responder and emergency needs of the City of Troy. The Troy PD PSAP also operates as an Intermediate Distribution Frame for the larger Oakland County network, which includes all Oakland county/ and Michigan State Police radio traffic. Troy is an integral part of the Oakland County network and is backed up by two generators to ensure continuous operation in the event of power surges and outages. Additionally, the Troy PSAP services the City of Clawson under a contractual shared services agreement.

Oakland County is currently directing a project to completely overhaul the entire radio network across the county. As a result of this, special attention has been paid to the capabilities and capacities of the Troy PSAP. During the Oakland County assessment, an electrical grounding deficiency was identified in the TPD dispatch stations that can affect our ability to offer continuous coverage. It is essential to correct this deficiency in order to offer the highest possible level of service to the citizens of Troy and to maintain our connectivity as an essential link in the Oakland County network. The Troy Dispatch area must be upgraded to comply with Motorola R56 standards in order to be compliant with Oakland County standards, and to fall within their warranty program. If this work is not completed the City of Troy will be liable for any damage to Oakland County radio equipment.

If this grounding upgrade is not completed, a lightning strike or other large power surge could knock out Troy's radio capacity and directly impact the ability to communicate to our first responders and the county at large. This grounding upgrade is only required in the dispatch area of Troy PD as it is the most critical and most essential telecommunications area of the building.



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Purchasing

- Pricing for the electrical grounding upgrade at the Police Department Dispatch area including all labor, materials and equipment has been secured from *Shaw Service and Maintenance of Southfield, MI* through the Oakland County Purchasing Cooperative Contract #005446 as detailed in the attached proposal #S210420001-1.
- City Council authorized participation in the Cooperative Purchasing Programs on November 9, 2020 (Resolution #2020-11-165-J-8).

Financial

This project will require a budget amendment to the Police Capital Fund Account in the amount of \$35,830. Expenditures will be charged to account number 401.301.11.325.7978.010.

Recommendation

City management recommends awarding a contract to *Shaw Service and Maintenance of Southfield, MI* for the electrical grounding upgrade at the Police Department Dispatch for an estimated cost total cost of \$29,854 with a 20% contingency for a not to exceed amount of \$35,825, as detailed in the attached proposal and as per the Oakland County Cooperative Contract #005446. It is also recommended that City Council approve a budget amendment to the Police Department Capital Fund Account in the amount of \$35,830. The award is contingent upon the contractor's submission of properly executed insurance documents and all other specified requirements.



Proposal & Scope of Work

Date: 5/3/2021

Proposal ID: S210420001-1

TO: Chris Culbreth
City of Troy
4695 Rochester Road
Troy, MI 48085

FROM: Mark A Feters
PROJECT: City of Troy Grounding Update for Radio System

Shaw Service and Maintenance Contacts

| | |
|------------------------------|--|
| Mark Feters, Service Manager | Direct (248) 228-2019 Cell (248) 345-9538 mfeters@shawsi.com |
| Dispatch | Direct (248) 228-2028 |
| After Hours Emergency Number | (877) 370-7076 |
| Service Email | service@shawsi.com |

| Included | Excluded | | Included | Excluded | |
|-------------------------------------|-------------------------------------|--------------------------------|--------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Use Tax | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Payment & Performance Bonds |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Electrical Permit Costs & Fees | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Overtime Costs |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Fire Division Inspection Fees | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Temperature Controls |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Building Permit Fees | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Patching &/or repair of holes in walls or floors |

This Proposal is based upon Shaw Service & Maintenance's Standard Terms and Conditions (see Page 2) unless otherwise indicated below.

SCOPE OF WORK:

Furnish and install (1) grounding electrode conductor from Ground Bar in Data Room (VD3) to (5) Dispatch Stations (~Length 85' to each will be sized specific at time of installation).

Bond (2) Receptacles at each Dispatch Station with new grounding electrode conductor.

Furnish and install (1) 500 MCM insulated grounding conductor (open air on insulators ~Length 50') from MDP to VD1

Furnish and install (1) Ground Bar in VD1

Furnish and install (1) 500 MCM insulated grounding conductor (open air on insulators ~Length 180') from VD1 to VD4

Furnish and install (1) Ground Bar in VD4

Furnish and install (1) 500 MCM insulated grounding conductor (open air on insulators ~Length 60') from VD4 to VD3

Furnish and install (1) Ground Bar in VD3

Test Impedance of Building steel on rooftop antennae area to ensure proper bonding to building structure

Correct (16) grounding terminations of existing antennae on rooftop

Labor : [\\$21,782.00](#)

Equipment : [\\$988.00](#)

Material : [\\$7,084.00](#)

Total Offering Price : [\\$29,854.00](#)

EXCLUSIONS & ASSUMPTIONS:

Work is expected to be performed during Monday through Friday during normal working hours excluding holidays.

Quoted as Time and Material Not to Exceed.

Grounding for raised flooring in dispatch area is assumed to be sufficient.

Grounding to existing data racks is assumed to be sufficient.

Conductors to be labeled at each ground bar by position and location.

New conductors installed from Ground Bars to be labeled by position and location at termination.

OSHA accepted dust capture equipment to be utilized for any coring or drilling of concrete and drywall.

Insulated conductor to be utilized to ensure unintended contact by future work in lieu of conduit.

R56 Certification by other

Pricing per Oakland County contract 5446

Mark A Feters

Shaw Service & Maintenance

Standard Terms & Conditions

1. Payment terms are monthly progress payments net 30 days due.
2. The offering price is valid for 30 days. Shaw Service & Maintenance reserves the right to extend this term without notice.
3. Subcontract terms and conditions are subject to review and approval prior to award of a subcontract to Shaw Service & Maintenance.
4. Terms are pending approval by Shaw Service & Maintenance credit manager.
5. This Proposal is based on the schedule and time durations presented at time of bid. A change in schedule shall constitute a change in scope of work.
6. All equipment furnished is F.O.B. shipping points with freight allowed to jobsite.
7. The price includes a warranty as specified in the Bid Documents. No other warranty is expressed or implied.