CITY of NOVI CITY COUNCIL
Agenda Item 3
April 7, 2014
cityofnovi.org
SUBJECT: Approval to award a construction contract for the 2014 Signal Improvements Project to Rauhorn Electric, Inc., the low bidder, in the amount of \$342,122; and approval of an additional appropriation in the amount of $\$ 20,887$.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division $B / C$
CITY MANAGER APPROVAL:


| EXPENDITURE REQUIRED | $\$ 39,434.76$ (Nine Mile-Haggerty) |
| :--- | :--- |
|  | $\$ 133,830.83$ (Meadowbrook-Eight Mile) |
|  | $\$ 168,856.47$ (Wixom-Glenwood) |
|  | $\$ 342,122.06$ Total |
| AMOUNT BUDGETED | $\$ 73,420$ (Nine Mile-Haggerty) |
|  | $\$ 145,000$ (Meadowbrook-Eight Mile) |
|  | $\$ 161,200$ (Wixom-Glenwood) |
|  | $\$ 379,620$ Total |
| APPROPRIATION REQUIRED | $\$ 3,831$ (Meadowbrook-Eight Mile) |
|  | $\$ 17,056$ (Wixom-Glenwood) |
|  | $\$ 20,887$ Total |
| LINE ITEM NUMBER | $204-204.00-974.439$ (Nine Mile-Haggerty) |
|  | $204-204.00-863.506$ (Meadowbrook-Eight Mile) |
|  | $204-204.00-863.504$ (Wixom-Glenwood) |

BACKGROUND INFORMATION:
This project includes traffic signal improvements to three intersections, including:

- Reconstruction and modernization of the existing traffic signal at the intersection of Meadowbrook Road and Eight Mile Road, to include a left turn signal to be added for eastbound Eight Mile at Meadowbrook Road.
- Construction of a new pathway connection crossing the north leg of the Haggerty Road and Nine Mile Road intersection, to include the addition of pedestrian crossing signals and controls.
- Construction of a new traffic signal at the intersection of Wixom Road and Glenwood Drive to improve traffic operations and to facilitate pedestrian crossing of Wixom Road at Deerfield Elementary School and Novi Middle School.

Americans with Disabilities Act (ADA) improvements will be completed for all sidewalk ramps at the intersections where appropriate.

A new traffic signal for the intersection of Cabot Drive and 13 Mile Road has also been designed and was included in the construction bid package. The construction of this proposed traffic signal is not funded in the current fiscal year. However, it was included in the bid package with the anticipation that the project could be added to the construction contract after July 1, 2014 if the new signal is approved in the FY14-15 budget. The City bid documents require that the bidder hold bid prices for 120 days.

Two (2) bids were received and opened on March 26, 2014 following a public bid solicitation period. A third bid was received but did not meet the requirements of the Invitation to Bid, and is therefore considered non-responsive. The lowest bidder is Rauhorn Electric (Rauhorn). Rauhorn's bid is recommended as being in the best interest of the City as it is responsive (i.e. Rauhorn has complied with all requirements of the bidding instructions) and it is the lowest price. (OHM's award recommendation letter including the bid tabulation dated March 31, 2014 is attached.) A summary of the two responsive bids is as follows:

|  | Bid Price <br> All 4 Divisions <br> Contractor | Bid Price (Divisions 1-3) <br> Excluding Division 4 <br> (including Crew Days)(1)(2) |
| :--- | :---: | :---: |
| Rauhorn Electric | $\$ 583,234.61$ | $\$ 374,122.06$ |
| J. Ranck Electric | $\$ 621,130.25$ | $\$ 399.924 .30$ |

(1)Crew Days are included to compare bids, but are not included in the award.
(2)Total for all four intersections were included to compare bids (includes Cabot-13 Mile)

The construction budget for Division 1 -Nine Mile and Haggerty is $\$ 73,420$, of which $\$ 39,434.76$ is being recommended for award, $\$ 3,300$ is being reserved for work by Road Commission for Oakland County on the pedestrian signal, and $\$ 9,000$ is being reserved for work by Buckeye Pipeline to relocate an above ground testing station (a reduction from previous estimates), for a total expected construction cost of $\$ 51,735$ (leaving $\$ 21,685$ remaining in the budget).

The construction budget for Division 2—Meadowbrook and Eight Mile Road is $\$ 145,000$, of which $\$ 133,830.83$ is being recommended for award and $\$ 15,000$ is being reserved for work by Wayne County Department of Public Services required to put the signal into operation, for a total expected construction cost of $\$ 148,831$ (requiring an appropriation of $\$ 3,831$ for this budget line item).

The construction budget for Division 3-Wixom and Glenwood is \$161,200, of which $\$ 168,856.47$ is being recommended for award and $\$ 9,400$ is being reserved for work by Road Commission for Oakland County Services required to put the signal into operation, for a total expected construction cost of \$178,256 (requiring an appropriation of \$17,056 for this budget line item).

A budget amendment is required to reallocate funds based on the bid prices that were received and the budget requirements for each division of the project. The proposed budget amendment is summarized below.

|  |  |  |
| :--- | :--- | ---: |
| Budget Line ltem | Description | Amount |
| 204-204.00-863.506 | Meadowbrook-8 Mile Construction | $\$ 3,831$ |
| $204-204.00-863.504$ | Wixom Glenwood Signal | $\$ 17,056$ |
| $204-204.00-974.439$ | Haggerty-Nine Mile Intersection | $(\$ 20,887)$ |
|  |  | $\$ 0$ |

It is anticipated that this project will be completed this this summer, excluding the Cabot13 Mile intersection which will be awarded and constructed after July 1, 2014, if approved in the FY14-15 budget.

RECOMMENDED ACTION: Approval to award a construction contract for the 2014 Signal Improvements Project to Rauhorn Electric, Inc., the low bidder, in the amount of \$342,132; and approval of an additional appropriation in the amount of $\$ 20,887$.

|  | 1 | 2 | Y | N |
| :--- | :--- | :--- | :--- | :--- |
| Mayor Gatt |  |  |  |  |
| Mayor Pro Tem Staudt |  |  |  |  |
| Council Member Casey |  |  |  |  |
| Council Member Fischer |  |  |  |  |


|  | 1 | 2 | Y | N |
| :--- | :--- | :--- | :--- | :--- |
| Council Member Markham |  |  |  |  |
| Council Member Mutch |  |  |  |  |
| Council Member Wrobel |  |  |  |  |

March 31, 2014

City of Novi DPS - Engineering Division
26300 Lee BeGole Drive
Novi, MI 48375
Attention: Ben Croy, P.E., Engineer
Regarding: City of Novi - 2014 Traffic Signal Improvements
Recommendation of Award
OHM Job \# 0163-13-0010, 0163-13-0040, 0163-13-0080, 0163-13-0140
Dear Mr. Croy:
Sealed bids for the 2014 Traffic Signal Improvements project were received and publicly read aloud on Wednesday, March 26, 2014. Proposals were received from three (3) bidders. One of the bidders, Dan's Excavating, Inc., failed to recognize the addendum. Therefore, their bid was not considered complete. The two (2) remaining bidders and their bid amounts are summarized below and in the attached bid tabulation. The Engineer's Opinion of Construction Cost for this project was estimated to be $\$ 582,157.50$.

| Contractor | Amount |
| :--- | :--- |
| Rauhorn Electric, Inc. | $\$ 583,234.61$ |
| J. Ranck Electric, Inc. | $\$ 621,130.25$ |

The project scope consists of improvements at four locations throughout the City. The improvements at Nine Mile and Haggerty consist of a pedestrian crossing on Haggerty along with associated pedestrian signals, pushbuttons, and retaining wall. The improvements at 8 Mile and Haggerty, Wixom and Glenwood, and 13 Mile and Cabot consist of installation of a new traffic signal along with upgrading the pedestrian crossings, pushbuttons and pedestrian signals. 13 Mile and Cabot also includes some minor roadway improvements.

The work to be done under this Contract includes the furnishing of materials, equipment, and labor necessary to complete the proposed work, as well as all necessary restoration in accordance with the specifications.
Rauhorn Electric, Inc., located in Macomb, Michigan, is the low bidder. They have positive references and have successfully completed work within the City of Novi in the past. Based on our findings and discussions with City Staff, we recommend award of the 2014 Traffic Signal Improvements project to Rauhorn Electric, Inc. in the amount of $\$ \mathbf{5 3 5}, \mathbf{8 7 4 . 6 1}$ ( $\$ 583,234.61-\$ 47,360.00$ crew days), per the unit prices bid for the project.
If you have any questions please do not hesitate to give our office a call at (734) 522-6711.

## Sincerely,

## OHM Advisors



James C. Stevens P.E.
Client Representative


Enclosures: Bid Tabulation
Cc: File

No. Description $\frac{\text { DIVISION 1-9 Mile \& Haggerty }}{}$
Mobilization, Max 10\% - D1
Digital Video Route Survey - D1
Traffic Maintenance and Control - D1
Modular Block Retaining Wall, Salvage and Reset
Curb and Gutter, Rem
Pavt, Rem
Sidewalk, Rem
Erosion Control, Inlet Protection, Fabric Drop
Erosion Control, Silt Fence
Modular Block Retaining Wall
Hand Patching
Curb and Gutter, Conc, Det F6
Detectable Warning Surface
Sidewalk Ramp, Conc, 6 inch
Sidewalk, Conc, 4 inch
Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk
Relocate Sign
Topsoil, Seed and Mulch, 3 inch
Conduit, DB, 1, 1 1/4 inch
Conduit, DB, 1, 3 inch
Hh, Rem
Hh, Round
Wood Pole, Fit Up, TS Cable Pole
Pedestal, Alum
Pedestal, Alum, Salv
Pedestal, Fdn
Pedestal Fdn, Rem
Pedestal, Rem
Pushbutton and Sign
Pushbutton, Rem
Pushbutton and Sign, Salv
TS, Pedestrian, Pedestal Mtd, Rem
TS, Pedestrian, One Way Pedestal Mtd, Salv
TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown
_ Pushbutton Support Post, RCOC

- Pushbutton Support Post, R
_ Support Post, Rem, RCOC

Crew Days - D1

Estimated
Quantity $\begin{gathered}\text { Unit } \\ \text { Price }\end{gathered}$ Amount

| 1 LS | $\$ 2,620.00$ | $\$ 2,620.00$ |
| ---: | ---: | ---: |
| 1 LS | $\$ 1,000.00$ | $\$ 1,000.00$ |
| 1 LS | $\$ 2,000.00$ | $\$ 2,000.00$ |
| 80 Stt | $\$ 50.00$ | $\$ 4,000.00$ |
| 43 Ft | $\$ 10.00$ | $\$ 430.00$ |
| 11 Syd | $\$ 12.00$ | $\$ 132.00$ |
| 10 Syd | $\$ 9.00$ | $\$ 90.00$ |
| 2 Ea | $\$ 125.00$ | $\$ 250.00$ |
| 20 Ft | $\$ 4.00$ | $\$ 80.00$ |
| 190 Stt | $\$ 20.00$ | $\$ 3,800.00$ |
| 3 Ton | $\$ 140.00$ | $\$ 420.00$ |
| 43 Ft | $\$ 35.00$ | $\$ 1,505.00$ |
| 13 Ft | $\$ 33.00$ | $\$ 429.00$ |
| 153 Stt | $\$ 5.00$ | $\$ 765.00$ |
| 82 Stt | $\$ 5.00$ | $\$ 410.00$ |
| 264 Stt | $\$ 7.00$ | $\$ 1,848.00$ |
| 112 Ft | $\$ 5.00$ | $\$ 560.00$ |
| 3 Ea | $\$ 50.00$ | $\$ 150.00$ |
| 62 Syd | $\$ 5.00$ | $\$ 310.00$ |
| 100 Ft | $\$ 11.00$ | $\$ 1,100.00$ |
| 65 Ft | $\$ 13.00$ | $\$ 845.00$ |
| 1 Ea | $\$ 150.00$ | $\$ 150.00$ |
| 2 Ea | $\$ 900.00$ | $\$ 1,800.00$ |
| 1 Ea | $\$ 400.00$ | $\$ 400.00$ |
| 2 Ea | $\$ 700.00$ | $\$ 1,400.00$ |
| 1 Ea | $\$ 300.00$ | $\$ 300.00$ |
| 3 Ea | $\$ 600.00$ | $\$ 1,800.00$ |
| 1 Ea | $\$ 100.00$ | $\$ 100.00$ |
| 1 Ea | $\$ 100.00$ | $\$ 100.00$ |
| 2 Ea | $\$ 400.00$ | $\$ 800.00$ |
| 1 Ea | $\$ 75.00$ | $\$ 75.00$ |
| 1 Ea | $\$ 200.00$ | $\$ 200.00$ |
| 1 Ea | $\$ 100.00$ | $\$ 100.00$ |
| 1 Ea | $\$ 350.00$ | $\$ 350.00$ |
| 2 Ea | $\$ 900.00$ | $\$ 1,800.00$ |
| 1 Ea | $\$ 500.00$ | $\$ 500.00$ |
| 1 Ea | $\$ 100.00$ | $\$ 100.00$ |
| $640 \$ / \mathrm{day}$ | 20 | $\$ 12,800.00$ |

TOTAL DIVISION 1:
DIVISION 2-8 Mile \& Meadowbrook
Mobilization, Max 10\% - D2
Digital Video Route Survey - D2
Traffic Maintenance and Control - D2
Curb and Gutter, Rem
Sidewalk, Rem
Erosion Control, Inlet Protection, Fabric Drop
Aggregate Base, 6 inch
Curb, Conc, Det E4
Curb and Gutter, Conc, Det F4
Detectable Warning Surface
Sidewalk Ramp, Conc, 6 inc
Sidewalk, Conc, 4 inch
Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk
Rem Spec Mrkg
Cable Pole, TS, Disman
Cable, Intercn, Rem
Conduit, DB, 1, $11 / 2$ inch
Conduit, DB, 1,3 inch
Conduit, DB, 1, 3 inch
Conduit, DB, 2, 3 inch
Conduit, DB, 3, 3 inch
Hh, Rem
Hh, Round
Cable, Sec, 600V, 1, 3/C\#6
Wood Pole, Fit Up, Sec Cable Pole
Case Sign, Rem
Controller and Cabinet, Rem
Controller and Cabinet, Digital Type
Controller Fdn, Base Mount
Pedestal, Fdn
Pedestal Fdn, Rem
Pedestal, Rem
Pushbutton and Sign
Pushbutton Pedestal, Alum
Serv Disconnect
Span Wire
Span Wire, Rem
TS, Pedestrian, Bracket Arm Mtd, Rem
TS, Pedestrian, Pedestal Mtd, Rem
TS, Span Wire Mtd, Rem
TS, One Way Span Wire Mtd (LED)
TS, One Way Span Wire Mtd, FYA (LED)
TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown
TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown
Bracket, Truss, With 18 Foot Arm
Video Traffic Detection System
Video Traffic Detection Camera
Wireless, Intercn, Closed Loop, Master
Wireless, Intercn, Closed Loop, Remote
Strain Pole, Steel, 6 bolt, 30 foot
Strain Pole Fdn, 6 Bolt
Casing

- Optical Priority Control System, RCOC
_ Span Wire, Box, WCDPS
Crew Days - D2
$\$ 45,519.00$

|  |  |
| :--- | :--- |
| 1 LS | $\$ 13$ |
| 1 LS | $\$ 1$, |
| 1 LS | $\$ 5$ |

\$13,230. $\$ 1,000.00$ $\$ 1,000.00$
$\$ 5,000.00$
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37 Sy
2 Ea
21 Ft
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62
$\begin{array}{r}62 \\ 191 \\ \hline\end{array}$
$\$ 1$

3,230.00
$\$ 10.00$
$\begin{array}{rr}\$ 95.00 & \$ 250.00 \\ \$ 8.00 & \$ 232.00 \\ \$ 20.00 & \$ 420.00 \\ \$ 22.00 & \$ 1144.00\end{array}$
$\begin{array}{rr}\$ 22.00 & \$ 1,144.00 \\ \$ 33.00 & \$ 528.00 \\ \$ 5.00 & \$ 310.00\end{array}$

| $\$ 10,55$ |  |
| ---: | ---: |
| $\$ 40$ |  |
|  | $\$ 1,962$ |

$\begin{array}{rrr}\$ 10,550.00 & \$ 10,550.00 & \$ 1 \\ \$ 400.00 & \$ 400.00 & \\ \$ 1,962.00 & & \end{array}$
Phone: 898-775-7393
Phone: 586-992-0400
$\qquad$

| Price <br> Pre | Amount |
| ---: | ---: |
| $\$ 4,000.00$ | $\$ 4.000 .00$ |

$\$ 2,500.00 \quad \$ 2,500.00$
$\$ 4,000.00$
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| $\$ 2,500.00$ | $\$ 2,500.00$ |
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| $\$ 400.00$ | $\$ 400.00$ |
| $\$ 952.00$ | $\$ 952.00$ |
| $\$ 32.00$ | $\$ 2.560 .00$ |

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Cotal divion
TOTAL DIVISION 2:
DIVISION 3 -Wixom \& Glenwood
Mobilization, Max 10\% - D3
Digital Video Route Survey - D3
Traffic Maintenance and Control - D3
4) Curb and Gutter, Rem
$\$ 400.00$
$\begin{array}{lr}4,000.00 & \$ 14,000.00 \\ \$ 500.00 & \$ 500.00\end{array}$
500.00 2,000.00

| $\$ 12.00$ | $\$ 624.00$ | $\$ 13.35$ | $\$ 694.20$ |
| ---: | ---: | ---: | ---: |
| $\$ 12.00$ | $\$ 444.00$ | $\$ 8.60$ | $\$ 318.20$ |
| $\$ 120.00$ | $\$ 240.00$ | $\$ 80.00$ | $\$ 160.00$ |


| $\$ 12.00$ | $\$ 240.00$ | $\$ 80.00$ | $\$ 160.00$ |
| :--- | ---: | :--- | :--- |
| $\$ 35.00$ | $\$ 735.00$ | $\$ 10.00$ | $\$ 290.00$ |
| $\$ 28.00$ | $\$ 39.00$ | $\$ 819.00$ |  |


| $\$ 5.00$ | $\$ 955.00$ |
| :--- | :--- |
| $\$ 5.00$ | $\$ 665.00$ |
| $\$ 9.00$ | $\$ 333.00$ |


|  | $\$ 1,456.00$ |
| :--- | ---: |
|  | $\$ 960.00$ |

$\$ 819.00$
$\$ 1,547.00$
$\$ 768.00$
$\$ 322.40$
$\$ 322.40$
$\$ 89.05$
$\$ 869.05$
$\$ 399.00$
$\$ 399.00$
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$\$ 444.00$
$\$ 202.50$
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$\$ 600.00$
$\$ 250.00$
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$\$ 22,000.00$
$\$ 24,000.00$
$\$ 4,340.00$
$\$ 4,340.00$
$\$ 4,000.00$
$\$ 2,000.00$
$\$ 8,960.00$
$\$ 159,058.35$

| 5) | Pavt, Rem |
| :---: | :---: |
| 6) | Sidewalk, Rem |
| 7) | Erosion Control, Inlet Protection, Fabric Drop |
| 8) | Erosion Control, Silt Fence |
| 9) | Aggregate Base, 6 inch |
| 10) | Hand Patching |
| 11) | Curb and Gutter, Conc, Det F4 |
| 12) | Detectable Warning Surface |
| 13) | Sidewalk Ramp, Conc, 6 inch |
| 14) | Sidewalk, Conc, 4 inch |
| 15) | Sign, Type III, Rem |
| 16) | Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk |
| 17) | Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar |
| 18) | Rem Spec Mrkg |
| 19) | Conduit, DB, 1, 1 1/4 inch |
| 20) | Conduit, DB, 1, 3 inch |
| 21) | Conduit, DB, 2, 3 inch |
| 22) | Conduit, DB, 3, 4 inch |
| 23) | Hh, Round |
| 24) | Wood Pole, Fit Up, Sec Cable Pole |
| 25) | _ Cable, Sec, 600V, 1, 2/C\#4, \#6 Ground, RCOC |
| 26) | _ Hh, Square, RCOC |
| 27) | Controller Fdn, Base Mount |
| 28) | Pushbutton and Sign |
| 29) | Serv Disconnect |
| 30) | TS, One Way Span Wire Mtd (LED) |
| 31) | TS, One Way Span Wire Mtd, FYA (LED) |
| 32) | TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown |
| 33) | _ Bottom Tether Wire, RCOC |
| 34) | _ Bracket Arm, 18 foot, RCOC |
| 35) | _ Case Sign, One Way, 24 inch by 30 inch, Non-llluminated, RCOC |
| 36) | _ Controller and Cabinet, Digital Type, Delivered, RCOC |
| 37) | _ Controller and Cabinet, Digitial Type, RCOC |
| 38) | _ Optical Priority Control System, RCOC |
| 39) | _ Pushbutton Support Post, RCOC |
| 40) | _ Span Wire, Box, RCOC |
| 41) | _ Strain Pole, Steel, Anchor Base, 30 foot, RCOC |
| 42) | _ Strain Pole, Steel, Anchor Fdn, RCOC |
| 43) | _ Thermal Detection Camera, RCOC |
| 44) | _ Thermal Detection System (MVP), RCOC |
| 45) | Crew Days - D3 |

176 Syd 19 Syd 2 Ea 71 Ft 257 Syd
9 Ton 9 Ton
212 Ft
83 Ft
$\$ 12.00$

|  |
| ---: |
| $\$ 2,112.00$ |
| $\$ 171.00$ |
| $\$ 250.00$ |
| $\$ 284.00$ |
| $\$ 2,056.00$ |
| $\$ 1,260.00$ |
| $\$ 4,664.00$ |
| $\$ 2,739.00$ |
| $\$ 2,695.00$ |
| $\$ 6,780.00$ |
| $\$ 40.00$ |
| $\$ 2,355.00$ |
| $\$ 1,035.00$ |
| $\$ 2,127.50$ |
| $\$ 990.00$ |
| $\$ 520.00$ |
| $\$ 600.00$ |
| $\$ 190.00$ |
| $\$ 2,700.00$ |
| $\$ 400.00$ |
| $\$ 375.00$ |
| $\$ 1,300.00$ |
| $\$ 2,000.00$ |
| $\$ 1,600.00$ |
| $\$ 900.00$ |
| $\$ 7,200.00$ |
| $\$ 2,000.00$ |
| $\$ 4,800.00$ |
| $\$ 1,500.00$ |
| $\$ 4,000.00$ |
| $\$ 2,000.00$ |
| $\$ 2,500.00$ |
| $\$ 14,000.00$ |
| $\$ 5,500.00$ |
| $\$ 2,000.00$ |
| $\$ 2,000.00$ |
| $\$ 1600000$ |
| $\$ 10,000.00$ |
| $\$ 20,000.00$ |
| $\$ 12,000.00$ |
| $\$ 12,800.00$ |

$\$ 18.00$
$\$ 12.00$
$\$ 120.00$
$\$ 5.00$
$\$ 12.00$
$\$ 300.00$
$\$ 28.00$
$\$ 60.00$
$\$ 6.00$
$\$ 6.00$
$\$ 100.00$
$\$ 3.00$
$\$ 12.00$
$\$ 1.50$
$\$ 16.02$
$\$ 12.26$
$\$ 16.85$
$\$ 89.35$
$\$ 941.00$
$\$ 431.00$
$\$ 6.31$
$\$ 1,730.00$
$\$ 1,368.00$
$\$ 414.00$
$\$ 923.00$
$\$ 902.00$
$\$ 1,046.00$
$\$ 1,344.00$
$\$ 2,007.00$
$\$ 539.00$
$\$ 0.01$
$\$ 15,695.00$
$\$ 746.00$
$\$ 4,616.00$
$\$ 760.00$
$\$ 2,463.00$
$\$ 3,650.00$
$\$ 2,879.00$
$\$ 5,218.00$
$\$ 13,705.00$
$\$ 480.00$ $\$ 600.00$
$\$ 300.00$ $\$ 300.00$
$\$ 2,700.00$ $\$ 500.00$ $\$ 300.00$ $\$ 3,500.00$ $\$ 1,500.00$
$\$ 2,800.00$ $\$ 800.00$ \$7,200.00 $\$ 7,200.00$
$\$ 2,400.00$ $\$ 2,400.00$
$\$ 5,200.00$ $\$ 2,000.00$ $\$ 2,800.00$ $\$ 3,000.00$
$\$ 20,000.00$ $20,000.00$
$\$ 800.00$ $\$ 4,000.00$
$\$ 1,600.00$ $\$ 2,000.00$ $\$ 18,000.00$ $\$ 13,000.00$
$\$ 24,000.00$ $\$ 24,000.00$
$\$ 13,000.00$ \$8,960.00
DIVISION 4 -13 Mile \& Cabot
Mobilization, Max 10\% - D4
Digital Video Route Survey - D4
Traffic Maintenance and Control - D4
Curb and Gutter, Rem
Pavt, Rem
Sidewalk, Rem
Erosion Control, Silt Fence
Aggregate Base, 6 inch
Aggregate Base, 8 inch
Sprinkler Head, Rem and Reset
Conc Pavt, Nonreinf, 9 inch
Curb and Gutter, Conc, Det F4
Gate Well, Cover, Adj, Add Depth
Gate Well, Cover, Adj
Detectable Warning Surface
Sidewalk Ramp, Conc, 6 inch
Sidewalk, Conc, 4 inch
Sign, Type III, Rem
Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk
Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar
Pavt Mrkg, Polyurea, 4 inch, White
Rem Spec Mrkg
Relocate Sign
Conduit, DB, 1, 1 1/4 inch
Conduit, DB, 1, 3 inch
Conduit, DB, 2, 3 inch
Conduit, DB, 3, 4 inch
Hh, Round
Wood Pole, Fit Up, Sec Cable Pole
Conduit, Directional Bore, 1, 3 inch
Conduit, Directional Bore, 1, 4 inch

- Cable, Sec, 600 , 1, $2 /$ C\#4, \#6 Ground, RCOC
- Hh, Square, RCOC
Controller Fdn, Base Mount
Pushbutton and Sign
Serv Disconnect
TS, One Way Span Wire Mtd (LED)
TS, One Way Span Wire Mtd, FYA (LED)
TS, One Way Span Wire Mtd, Five Sect (LED)
TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown
- Bottom Tether Wire, RCOC
- Bracket Arm, 18 foot, RCOC
- Case Sign, One Way, 24 inch by 30 inch, Non-Illuminated, RCOC
- Controller and Cabinet, Digital Type, Delivered, RCOC
- Controller and Cabinet, Digitial Type, RCOC
- Optical Priority Control System, RCOC
- Pushbutton Support Post, RCOC
- Span Wire, Box, RCOC,
- Strain Pole, Steel, Anchor Base, 40 foot, RCOC
- Strain Pole, Steel, Anchor Fdn, RCOC
- Thermal Detection Camera, RCOC
Thermal Detection System (MVP), RCoc
Crew Days - D41 LS $\quad \$ 15,890.00$
1 LS
1 LS
195 Ft
$\$ 15,890.00$
$\$ 1,000.00$
$\$ 5,000.00$
$\$ 1,950.00$
$\$ 10,000.00$ \$ 1 LS
1 LS
195 Ft
99 Syd
132 Syd
145 Ft 145 Ft 151 Syd
36 Syd
4 Ea
125 Syd
210 Ft
210 Ft
1 Ft
2 Ea
71 Ft

TOTAL DIVISION 4:

OTAL BID AMOUNT
\$582,157.50
\$209,112.55
\$583,234.61

Coburn, Brian

| From: | Todd Underhill [TUnderhill@rauhornelec.com](mailto:TUnderhill@rauhornelec.com) |
| :--- | :--- |
| Sent: | Monday, March 31, 2014 4:51 PM |
| To: | Pringle, Jennifer |
| Subject: | City of Novi Traffic Signal Bid Clarification |

Jennifer,

On page \#21 of the bid form, Item \#22 for Conduit, DB, 3, 4 inch should have been $\$ 89.35$ in lue of $\$ 893.35$ for and extension price of $\$ 893.50$ for the 10 feet indicated.

Please use this as my official clarification statement for the actual bid tabs for record.

Thanks you,

## Todd 9. Underkill

Lead Estimator
D- (586) 232-2402
F - (586) 232-2452
http://www.rauhornelectric.com

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Map Author: Croy
Date: $3 / 31 / 14$
Project: Nine/Haggerty
Version \#: v1.0


## City of Novi



Map Author: Brian Coburn


## City of Novi

Engineering Division
Department of Public Service
26300 Lee BeGole Driv


