



CITY of NOVI CITY COUNCIL

Agenda Item D
September 14, 2009

SUBJECT: Approval of payment to Trinity Electric Inc. in the amount of \$31,200 for street lighting repairs made to Crescent Boulevard lighting.

SUBMITTING DEPARTMENT: Department of Public Services – Field Operations Division

CITY MANAGER APPROVAL:

EXPENDITURE REQUIRED	\$1,000
APPROPRIATION REQUIRED	Maximum potential cost \$26,000 pending insurance claim submission, any remaining balance to be charged to Judgment Trust Fund
LINE ITEM NUMBER	260-000.00-910.001

BACKGROUND INFORMATION:

On February 26, 2009 a street light on Crescent Boulevard was damaged as the result of an automobile accident (see attached map).

Initial Repairs

Upon securing the site, staff consulted with Chris Trinity of Trinity Electric, Inc. (the City's electrical contractor), who estimated the initial cost of repairs at \$6,000. This resulted in the issuance of a purchase order for replacement of the light pole, fixture and associated wiring; as well as replacing fuse blocks and wiring on three adjacent poles. (A separate purchase order was obtained for the removal and replacement of the damaged foundation by Rauhorn Electric in the amount of \$3,338.) Bids for Trinity's and Rauhorn's work were not solicited because of the emergency nature of the repairs: live wires were exposed *aboveground* at the street light pole's base.

Additional Repairs

Once Rauhorn completed installation of the new foundation, Trinity returned to energize the south leg of the system. Upon powering the system, unforeseen damaged *underground* wires arced, revealing further damage. Energizing the system destroyed the replacement foundation and blew-out several connected ballasts over a 2,000 foot length of the Town Center street lighting system along the south side of Crescent Boulevard. Because it was not possible to comprehensively define the full scope of additional repair work needed (most of it was underground), bids were not solicited for this phase of work. Instead, Trinity was given authorization to perform the additional work necessary to address this public hazard, and after a thorough investigation over a three-week period, Trinity determined the scope of needed repairs (see attached letter from Trinity that describes the scope of additional work). Consequently, a quote for \$26,000 was received to complete this scope. However, upon the completion of this work, a follow-up inspection by an electrical inspector from the Community Development Department revealed that an additional \$5,200 was needed for further upgrades to meet code requirements. Therefore, the total cost of services performed by Trinity total \$31,200 (see attached Trinity Electric quotes and billing detail).

Claims have been filed through the City's insurance carrier to pursue reimbursement of these expenses. To date we have received \$5,500 toward the overall project cost of \$34,905 (\$3,338 for Rauhorn's initial work, \$367 for Trinity's initial work, and \$31,200 for Trinity's additional work). We expect to receive full reimbursement once additional claim processing has been completed.

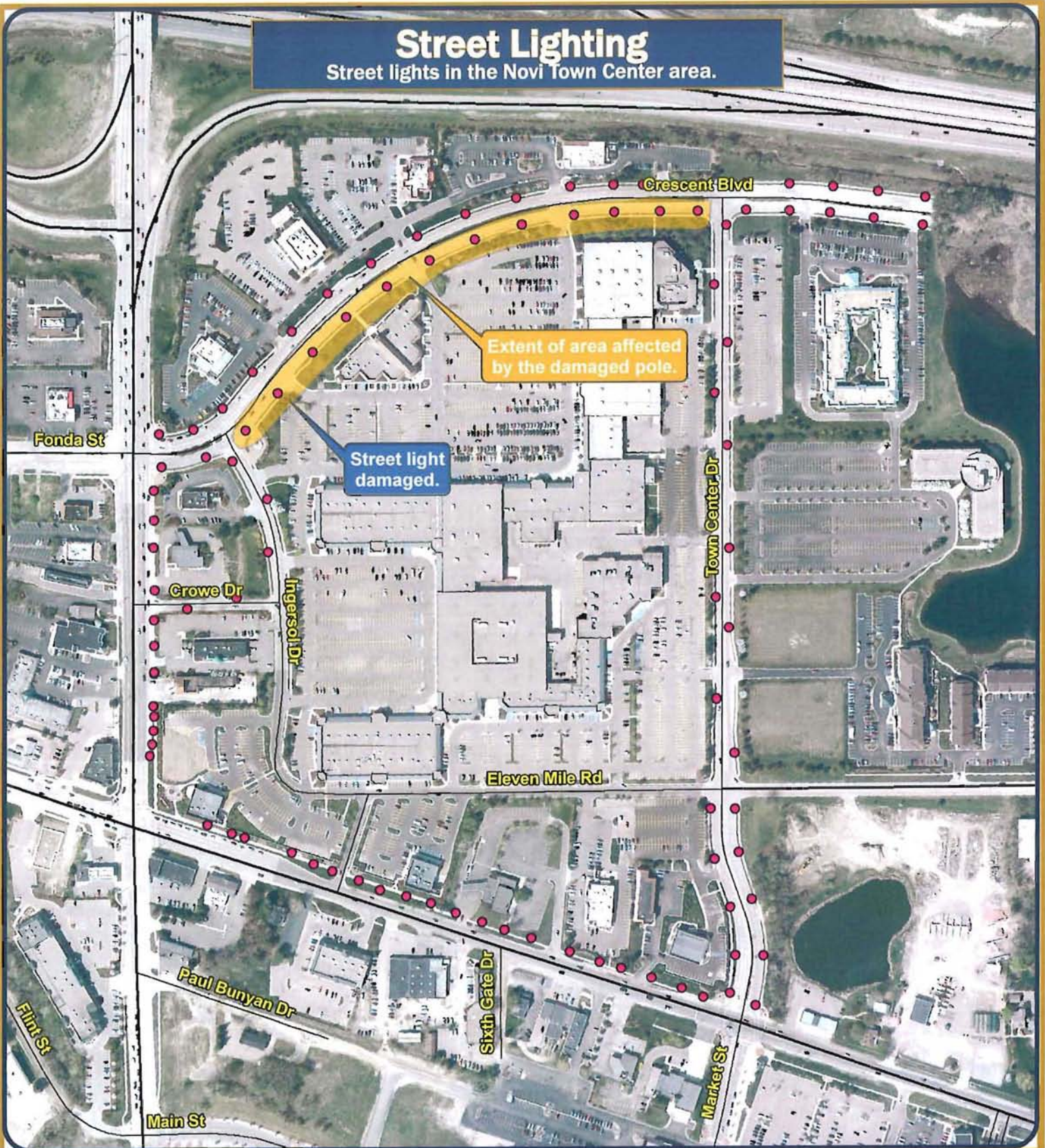
RECOMMENDED ACTION: Approval of payment to Trinity Electric Inc. in the amount of \$31,200 for street lighting repairs made to Crescent Boulevard lighting.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Gatt				
Council Member Burke				
Council Member Crawford				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				

Street Lighting

Street lights in the Novi Town Center area.



Map Author: Jeff Van Curler
 Date: September 4, 2009
 Project: Novi Town Center Street Lights
 Version #: 1.0

Amended By: Place Name Here
 Date: Enter Date
 Department: Place here

MAP INTERPRETATION NOTICE

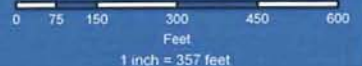
Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 332 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

Map Legend

- StreetLightTowneCenter
 - Area affected by damaged pole
- Centerline
- Type of Route
- Major
 - Minor



City of Novi
 Department of Public Services
 Operations Division
 45175 W Ten Mile Rd
 Novi, MI 48375
 cityofnovi.org





P.O. Box 636 New Baltimore, MI 48047

ATT: Matt Wiktorowski

RE: Crescent Light Pole.

Light pole was serviced and removed due to being struck by oncoming traffic.

- We trouble shot entire street circuit to determine where arc fault was coming from, this took about three weeks to determine the where the underground open conductors were located.
- We then carefully extracted the light pole base by hand to further reduce any underground conduit or wiring damage.
- We then had to use an excavator to expose the underground conduit under the street easement and walkway, where we located three breaks in the 480 volt circuit which caused a surge to knock out four downstream ballasts and the photocell.
- We then concluded we had to pull out approx 1000' of copper conductor in case there were more breaks we could not expose under the street further minimizing any street repair.
- We then pulled on the conductors and they were stuck we had to bring out another scissor lift to get more leverage on the conductors.
- We then came across two conductors that were snapped in the conduit run due to the pole light being knocked over.
- We then noticed the wiring was not up to code so we updated approx 2000 feet of wire along crescent drive.
- We then had to remove three more pole lights on Crescent drive to properly pull and terminate the new wiring.
- We then had the Electrical Inspector look at the underground conduit and he wanted a bond for the rigid conduit to go along the conduit into the light pole base, we had to special order the lug which took three day to arrive.
- He also wanted us to install fusible blocks at each light pole we worked on so that consisted of pulling new wires to three light poles and setting 2 fuses at each light pole.
- We then repaired the blown out ballasts and poured the new light pole base and installed the light pole.



46566 Erb Dr Macomb Twp, MI 48042

www.trinityelectricinc.com

April 24, 2009

To: City Of Novi
Re: Street Repair

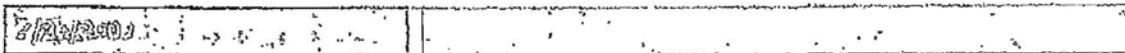
- Service and trouble shoot downed light pole.
- Remove light pole base and service existing 480 volt circuit.
- Install light pole base with new conduit, wires need to be adjusted due to voltage drop and wire fill.
- Install customer provided light pole.
- Install new pole head fixture.
- Install new wiring to new pole and from new pole to next light pole due to damage.
- Install four new ballasts due to arc surge from phase faulted wire.
- Install new photo cell damaged from surge from phase faulted wire.

Total \$ 26,000.00



TRINITY ELECTRIC INC.

P.O. Box 636 New Baltimore, MI 48047



ATT: City Of Novi
RE: Street Repair

Addition to the initial estimate regarding the light pole repair:

- Purchase light pole previously supplied by owner-pole was initially supplied by Novi D.P.W. due to an overview we later had to purchase at an addition to the initial quotation.
- Ground rigid conduit with #6 bare and burial rated clamp extend up to light pole and install in grounding lug.
- Add six fuse blocks to existing three light poles due to tap situation over twenty five feet.
- Run new wires up three light poles for new feeds.

Total, \$ 5,200.00

Respectfully,
Christopher F. Trinity

AP - Please **APPROVAL**
 Approve -

08/03/2009 BOX 636
 01:57:51 PMw Baltimore, MI 48047

Rob, **OFFICE 586.273.7924**
FAX 586.273.7925

Please Approve
 and assign a
 P.O. #CITY OF NOVI
 ALLIN: FINANCE DEPARTMENT
 45175 WEST TEN MILE
 Why invoice N 48375
 amount greater
 then quote?

Please check box if address is incorrect or has changed, and indicate
 Was an) on reverse side.

Insurance dress? Enter here: _____

claim filed?
 TRINITY ELECTRIC INC

PO BOX 636
 New Baltimore, MI 48047

Invoice

Due Date	Date	Invoice #
8/25/2009	7/26/2009	08074



Balance Due \$31,200.00

PLEASE DETACH AND RETURN TOP PORTION WITH YOUR PAYMENT

P.O. No.	Terms	Project	Rep
	Net 30	Crescent Light ...	Sue M

Item	Description	Qty	U/M	Rate	Amount
16 Electrical ...	Electrical & Lighting			31,200.00	31,200.00

Total	\$31,200.00
Payments/Credits	\$0.00
Balance Due	\$31,200.00