



CITY of NOVI CITY COUNCIL

**Agenda Item B
December 4, 2017**

SUBJECT: Approval of a Street Light Purchase Agreement with DTE Energy for the installation and ongoing operation costs of 29 street lights at 16 intersections throughout the City to enhance intersection safety as part of the 2017 Novi Intersection Improvements project.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division

CITY MANAGER APPROVAL: 

EXPENDITURE REQUIRED	\$ 45,483.10 (Street Light Installations) \$ 7,914.95 (Street Light Operating Costs) \$ 53,398.05 TOTAL
AMOUNT BUDGETED	\$115,000.00 (Street Light Installations) \$152,000.00 (Street Light Operating Costs)
LINE ITEM NUMBER	101-442.10-924.050 (Street Light Installations) 101-442.20-924.000 (Street Light Operating Costs)

BACKGROUND INFORMATION:

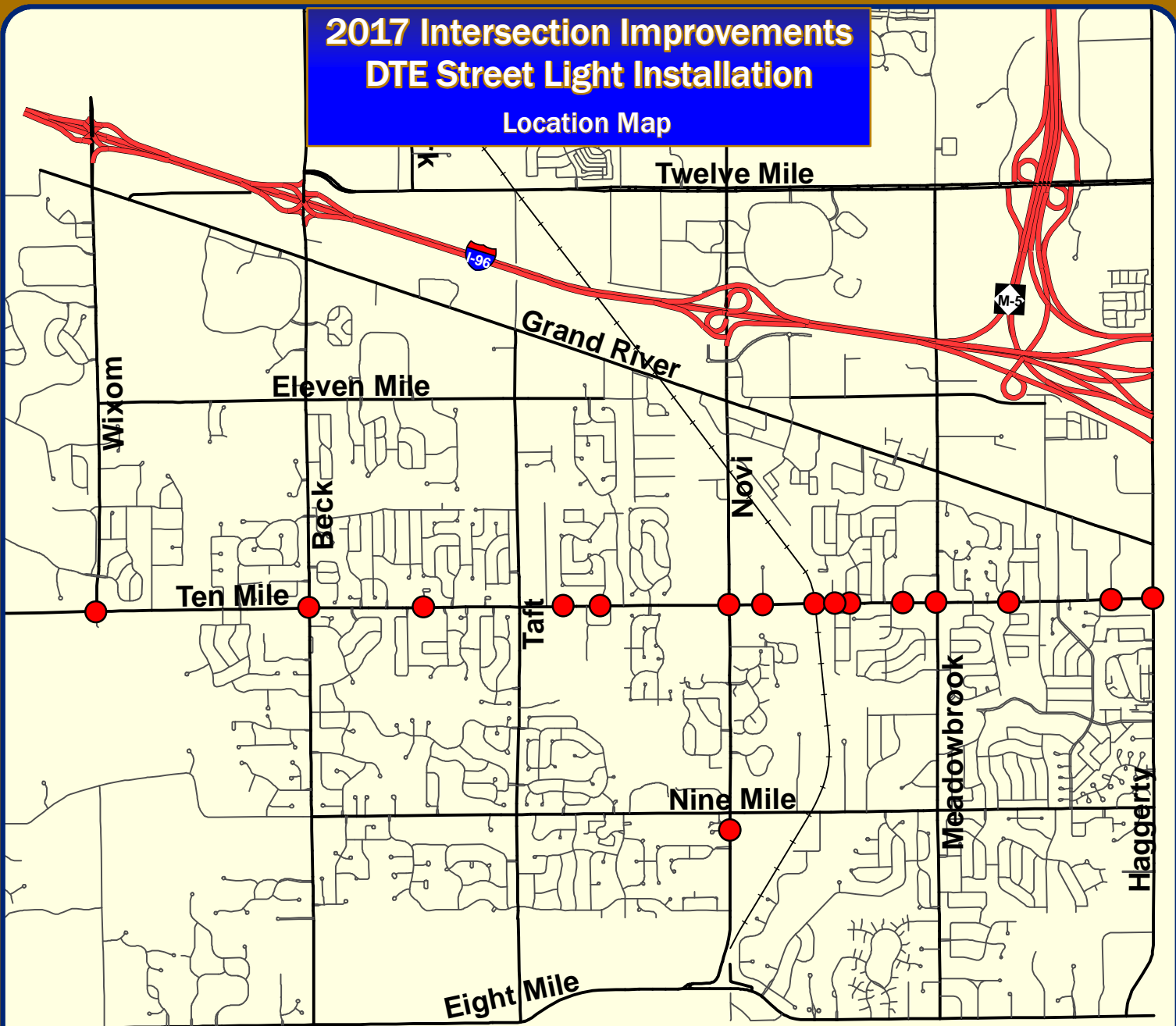
The Department of Public Services (DPS) has identified 16 intersections that would benefit from overhead lighting. DTE Energy's attached proposal enhances intersection safety by adding 29 new LED street lights. The installation of these street lights would be a continuation of those approved for installation at the June 19, 2017 City Council meeting. The costs shown in the DTE Energy proposal are based upon the Option 1 Municipal Street Light Rate, where DTE Energy installs, owns, and maintains the lighting system. The rate requires a portion of the construction cost to be paid by the City, which is in the amount of \$69,227.95. As part of this project, DTE Energy will issue to the City an upfront credit based on three years of projected lamp charges, in the amount of \$23,744.85. The three-year revenue credit lowers the total contribution from the City to \$45,483.10.

In order to facilitate installation of the street lights, DTE Energy is requesting approval and execution of the attached Purchase Agreement. The agreement requires the City to pay the total installation cost of \$45,483.10 and an ongoing annual operating cost of \$7,914.95 for operation and maintenance of the street lights. As with all other street light installations, the City pays DTE Energy directly. The agreement has been reviewed and recommended for approval by Engineering staff and the City Attorney.

RECOMMENDED ACTION: Approval of a Street Light Purchase Agreement with DTE Energy for the installation and ongoing operation costs of 29 street lights at 16 intersections throughout the City to enhance intersection safety as part of the 2017 Novi Intersection Improvements project.

2017 Intersection Improvements DTE Street Light Installation

Location Map



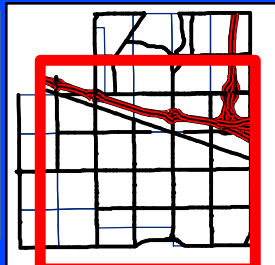
Map Author: Joseph Akers
Date: November 20, 2017
Project: Street Lighting Improvements
Version #: 1.0

Amended By:
Date:
Department:

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 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

 **Street Light Installation Locations**



City of Novi

Engineering Division
Department of Public Services
26300 Lee BeGole Drive
Novi, MI 48375
cityofnovi.org



1 inch = 3,803 feet





November 20, 2017

City of Novi
Attn: George Melistas
26300 Lee BeGole Drive
Novi, MI 48375

Re: Proposed Street Lighting – 2017 Novi Intersection Improvements – Phase 2

We have completed our review of your request for street lighting and have prepared a cost estimate for the installation of 29 new street lights. Street light locations are based on our recent meeting at your offices. The estimate assumes overhead fed stock Autobahn LED fixtures mounted on steel arms attached to existing or new wood poles. If an existing wood pole is not available for installation of a street light or installation of a new wood pole is not practical, DTE assumes a stock 30' black direct buried fiberglass pole with a stock black Autobahn LED fixture. The street light fixture wattage varies between either 135 watt LED and 280 watt LED depending on location. Please see attached preliminary sketches by location to provide further detail.

The costs are based on the Option 1 Municipal Street Light rate, where DTE Energy installs, owns, and maintains the lighting system. The rate requires a portion of the construction cost be paid by the customer, which is determined by the following formula.

29 Street Light fixtures mounted on 29 Poles (13 - Overhead fed & 16 - Ornamental Underground fed)

Annual Operating Cost	\$7,914.95
Cost to Construct	\$72,234.17
Three Year Revenue Credit	(\$23,744.85)
Phase 1 Overage Credit	(\$3,006.22)
Contribution from City of Novi	\$45,483.10

The price quoted shall be in effect for a period of six months from the date of this letter, after which these costs will no longer be valid. After installation, the total cost for additional modification, relocation or removal will be the responsibility of the requesting party. Payment for the customer contribution must be made prior to the actual start of construction.

Please contact me for a Street Lighting Purchase Agreement if you would like to proceed with the above installations. Feel free to contact me with any questions at 734-397-4188.

Regards,

Lance Alley

Lance Alley
Account Manager
DTE Energy - Community Lighting

PRIORITY	CHILD WORK ORDER	LOCATION DESCRIPTION	PROPOSED OH/UG	WATTAGE	# OF LIGHTS	COST ESTIMATE	RCOC PERMIT COST	ANNUAL OPERATING COST	3 YEAR REVENUE CREDIT	UP-FRONT CIAC TOTAL	NOTES
1	48373389	10 Mile & Haggerty	OH & UG	280	1-OH & 1-UG	\$4,035.96	\$90.00	\$574.55	\$1,723.65	\$2,402.31	W side of Haggerty is Novi - E side of Haggerty is Farmington Hills
2	48373389	10 Mile & Meadowbrook	OH & UG	280	1-OH & 3-UG	\$10,436.43	\$90.00	\$1,302.71	\$3,908.13	\$6,618.30	Existing 250W HPS on NE corner W2770 to be upgraded to LED plus new
3	48373389	10 Mile & Beck	OH & UG	280	1-OH & 3-UG	\$11,896.51	\$90.00	\$1,302.71	\$3,908.13	\$8,078.38	Existing 250W HPS on NE corner OAS19 to be upgraded to LED plus new
4	48373389	10 Mile & Wixom	OH & UG	280	1-OH & 3-UG	\$12,567.68	\$90.00	\$1,302.71	\$3,908.13	\$8,749.55	Existing 250W HPS on NE corner OW118 to be upgraded to LED plus new
5	48373389	10 Mile & CSX Railroad	OH	135	1-OH	\$1,366.54	\$90.00	\$166.85	\$500.55	\$955.99	West of Chipmunk Trail
6	48373389	10 Mile & Wildcat Dr (HS)	UG	135	1-UG	\$4,558.92	\$90.00	\$321.77	\$965.31	\$3,683.61	Entrance to Novi High School
7	48373389	10 Mile & E City Hall Entrance	UG	135	2-UG	\$4,985.96	\$90.00	\$643.54	\$1,930.62	\$3,145.34	45175 W 10 Mile - Replace SL at W entrance with LED plus new
8	48373389	10 Mile & Catherine Industrial	UG	135	1-UG	\$3,625.69	\$90.00	\$321.77	\$965.31	\$2,750.38	
9	48373389	10 Mile & Karim Blvd	OH	135	1-OH	\$2,156.75	\$90.00	\$166.85	\$500.55	\$1,746.20	
10	48373389	10 Mile & Ripple Creek	OH	135	2-OH	\$2,419.15	\$90.00	\$333.70	\$1,001.10	\$1,508.05	Existing 100W HPS suspension W2774 to be RP with LED plus new
11	48373389	10 Mile & Pheasant Run	UG	135	1-UG	\$4,102.97	\$90.00	\$321.77	\$965.31	\$3,227.66	
12	48373389	10 Mile & Chipmunk Trail	OH	135	2-OH	\$2,720.06	\$90.00	\$333.70	\$1,001.10	\$1,808.96	
13	48373389	10 Mile & Homestead Ct	OH	135	1-OH	\$778.01	\$90.00	\$166.85	\$500.55	\$367.46	
18	48373389	Novi Rd & Vero Ct	OH	135	1-OH	\$840.65	\$90.00	\$166.85	\$500.55	\$430.10	
19	48373389	10 Mile & Novi	OH	135	1-OH	\$977.10	\$90.00	\$166.85	\$500.55	\$566.55	Upgrade exist SL at NE corner to LED, Green teardrops on ATS's not DTE
20	48373389	10 Mile & Manor Park	UG	135	1-UG	\$3,325.79	\$90.00	\$321.77	\$965.31	\$2,450.48	
				Total =	29	\$70,794.17	\$1,440.00	\$7,914.95	\$23,744.85	\$48,489.32	

GRAND TOTAL = \$45,483.10 Up-Front CIAC Total of \$48,489.32 minus \$3,006.22 credit from Phase 1)



JOHNSON ROSATI SCHULTZ JOPPICH PC

2755 Executive Drive Suite 250 ~ Farmington Hills, Michigan 48331
Phone: 248.489.4100 | Fax: 248.489.1726

Elizabeth Kudla Saarela
esaarela@jrsjlaw.com

www.jrsjlaw.com

November 20, 2017

George Melistas, Senior Engineering Manager
City of Novi
Public Services
Field Services Complex
26300 Lee BeGole Drive
Novi, MI 48375

Re: DTE Energy - Purchase Agreement for 2017 Novi Intersection Improvements

Dear Mr. Melistas:

We have received and reviewed the Purchase Agreement, dated November 20, 2017, for Municipal Street Lighting (Work Order 48228849), and attachments, for the installation of 29 street lights at various intersections along Ten Mile Road within the City. The Purchase Agreement is a standard form agreement prepared by **The Detroit Edison Company ("DTE")** for use in projects for installation and maintenance of new street lighting. It references and incorporates the terms of the Master Agreement for Municipal Street Lighting entered into between the City and DTE Energy on September 16, 2013. The Master Agreement controls the terms of installation and maintenance, generally, such as terms of payment, rates, maintenance responsibilities, term, liability, warranties and general contract provisions, including such things as choice of law and notices.

The Purchase Agreement includes the more specific information relating to each particular project, including total estimated project cost, project location, project specifications, and special order information.

The terms of the Master Agreement apply to each Purchase Agreement for individual projects. The Master Agreement was previously revised to satisfactorily address an issue we raised with the liability provisions in the Agreement.

The Purchase Agreement and Master Street Lighting Agreement **are in DTE's standard format** and we see no legal impediment to approval of the agreements.

Please feel free to contact me with any questions or concerns in regard to this matter.

George Melistas, Senior Engineering Manager

November 20, 2017

Page 2

Very truly yours,

JOHNSON, ROSATI, SCHULTZ & JOPPICH, P.C.



Elizabeth Kudla Saarela

EKS

C: Cortney Hanson, Clerk
Joey Mathias, Graduate Engineer
Joseph Akers, Staff Civil Engineer
Thomas R. Schultz, Esquire


Exhibit A to Master Agreement

Purchase Agreement

This Purchase Agreement (this "Agreement") is dated as of November 20, 2017 between The Detroit Edison Company ("Company") and City of Novi ("Customer").

This Agreement is a "Purchase Agreement" as referenced in the Master Agreement for Municipal Street Lighting dated September 16, 2013 (the "Master Agreement") between Company and Customer. All of the terms of the Master Agreement are incorporated herein by reference. In the event of an inconsistency between this Agreement and the Master Agreement, the terms of this Agreement shall control.

Customer requests the Company to furnish, install, operate and maintain street lighting equipment as set forth below:

1. DTE Work Order Number:	48228849 If this is a conversion or replacement, indicate the Work Order Number for current installed equipment: N/A	
2. Location where Equipment will be installed:	16 various intersection locations in City of Novi, as more fully described on the maps attached hereto as <u>Attachment 1</u> .	
3. Total number of lights to be installed:	29	
4. Description of Equipment to be installed (the " <u>Equipment</u> "):	<u>Overhead (OH)</u> Install (9) – 135watt and (4) – 280watt stock Autobahn LED fixtures with black housings mounted on existing or new wood poles. <u>Underground (UG)</u> Install (6) – 135watt and (10) – 280watt stock Autobahn LED fixtures with black housings mounted on stock black 30' direct buried fiberglass poles.	
5. Estimated Total Annual Lamp Charges	\$7,914.95	
6. Computation of Contribution in aid of Construction (" <u>CIAC Amount</u> ")	Total estimated construction cost, including labor, materials, and overhead:	\$69,227.95
	Credit for 3 years of lamp charges:	\$23,744.85
	CIAC Amount (cost minus revenue)	\$45,483.10
7. Payment of CIAC Amount:	Due promptly upon execution of this Agreement	
8. Term of Agreement	5 years. Upon expiration of the initial term, this Agreement shall continue on a month-to-month basis until terminated by mutual written consent of the parties or by either party with thirty (30) days prior written notice to the other party.	
9. Does the requested Customer lighting design meet IESNA recommended practices?	(Check One) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "No", Customer must sign below and acknowledge that the lighting design does not meet IESNA recommended practices Signature:  11/20/17	
10. Customer Address for Notices:	City of Novi 26300 Lee BeGole Dr Novi, MI 4837 Attn: George Melistas	

11. Special Order Material Terms:

All or a portion of the Equipment consists of special order material: (check one) YES NO

If "Yes" is checked, Customer and Company agree to the following additional terms.

A. Customer acknowledges that all or a portion of the Equipment is special order materials ("SOM") and not Company's standard stock. Customer will purchase and stock replacement SOM and spare parts. When replacement equipment or spare parts are installed from Customer's inventory, the Company will credit Customer in the amount of the then current material cost of Company standard street lighting equipment.

B. Customer will maintain an initial inventory of at least N/A posts and N/A luminaires and any other materials agreed to by Company and Customer, and will replenish the stock as the same are drawn from inventory. Costs of initial inventory are included in this Agreement. The Customer agrees to work with the Company to adjust inventory levels from time to time to correspond to actual replacement material needs. If Customer fails to maintain the required inventory, Company, after 30 days' notice to Customer, may (but is not required to) order replacement SOM and Customer will reimburse Company for such costs. Customer acknowledges that failure to maintain required inventory could result in extended outages due to SOM lead times.

C. The inventory will be stored at N/A. Access to the Customers inventory site must be provided between the hours of 9:00 am to 4:00 pm, Monday through Friday with the exceptions of federal Holidays. Customer shall name an authorized representative to contact regarding inventory: levels, access, usage, transactions, and provide the following contact information to the Company:

Name: N/A Title: N/A

Phone Number: N/A Email: N/A

The Customer will notify the Company of any changes in the Authorized Customer Representative. The Customer must comply with SOM manufacturer's recommended inventory storage guidelines and practices. Damaged SOM will not be installed by the Company.

D. In the event that SOM is damaged by a third party, the Company may (but is not required to) pursue a damage claim against such third party for collection of all labor and stock replacement value associated with the damage claim. Company will promptly notify Customer as to whether Company will pursue such claim.

E. In the event that SOM becomes obsolete or no longer manufactured, the Customer will be allowed to select new alternate SOM that is compatible with the Company's existing infrastructure.

F. Should the Customer experience excessive LED equipment failures, not supported by LED manufacturer warranties, the Company will replace the LED equipment with other Company supported Solid State or High Intensity Discharge luminaires at the Company's discretion. The full cost to complete these replacements to standard street lighting equipment will be the responsibility of the Customer.

12. Experimental Emerging Lighting Technology ("EELT") Terms:

All or a portion of the Equipment consists of EELT: (check one) YES NO

If "Yes" is checked, Customer and Company agree to the following additional terms.

A. The annual billing lamp charges for the EELT equipment has been calculated by the Company are based upon the estimated energy and maintenance cost expected with the Customer's specific pilot project EELT equipment.

B. Upon the approval of any future MPSC Option I tariff for EELT street lighting equipment, the approved rate schedules will automatically apply for service continuation to the Customer under Option 1 Municipal Street Lighting Rate, as approved by the MPSC. The terms of this paragraph B replace in its entirety Section 7 of the Master Agreement with respect to any EELT equipment purchased under this Agreement.

Company and Customer have executed this Purchase Agreement as of the date first written above.

Company:

The Detroit Edison Company

By: _____

Name: _____

Title: _____

Customer:

City of Novi

By: _____

Name: _____

Title: _____

Attachment 1 to Purchase Agreement

Map of Location

[To be attached]

\$4,035.96



57 IN MULTIPLE LED 280 LLT COBRA - 7 PIN
 IN OH CODE S46
 IN PCLL
 IN DET 23206A 2A2T

58 IN DET 605D
 IN 4 MXAT DEADEND

82'

W 10 MILE RD

W 10 MILE RD

IN DET 984 UG 2 A 60

59 IN POST CODE 070
 IN FOUNDATION CRUSHED STONE
 IN UG MULTIPLE LED 280 LLY COBRA - 7 PIN
 IN UG PCLL

BORE 10'

4.1'

HAGGERTY RD

GERTY RD

DTE Energy		DTE Electric - Distribution Engineering and Planning						
Service Planner	Work Order Description							
Wincel, Thomas J	SI-2017 Intersection Improvements-Phase 2-Nov							
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC		
586.412.3028	48373389							
Supervisor	Circuit #1	Circuit #2		PH	SCMAT			
Brian R Kinnick	SNS8237							
Phone	Service Center	Worksite City	Worksite Twp		County			
734.397.4024	WWS	NOVI	NOV		Oakland			
Planning Engineer	JU Work to be Performed				JU	RSD		
Phone	JU Company	Contact	Email	Phone				
	JU Company	Contact	Email	Phone				
	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr
	742068	1	10/01/2017		01N	08E	24	

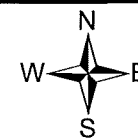


Know what's below.
 Call before you dig



Call before you dig

\$10,436.43



⑥ IN POST CODE 070
 IN FOUNDATION CRUSHED STONE
 IN UG MULTIPLE LED 280 LLY COBRA - 7 PIN
 IN UG PCLL

⑪ IN DET 984 A UG

REPLACE EXISTING ⑨
 WITH 280 LED

W 10 MILE RD

W 10 MILE RD

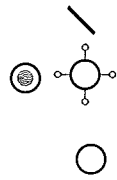
MEADOWBROOK RD

WBROOK RD

⑦ IN POST CODE 070
 IN FOUNDATION CRUSHED STONE
 IN UG MULTIPLE LED 280 LLY COBRA - 7 PIN
 IN UG PCLL

IN DET 984 A UG ⑩
 IN DET 23227D

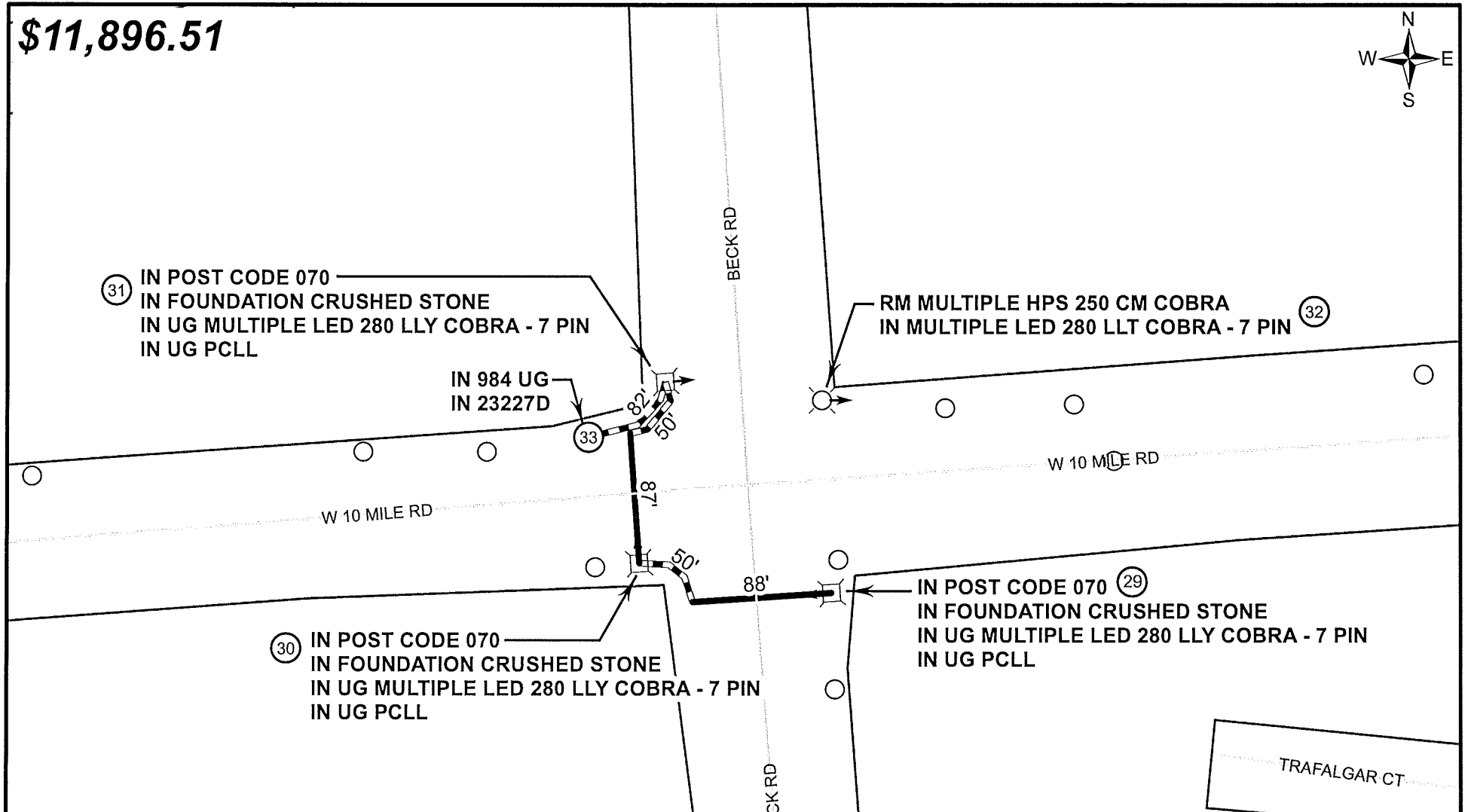
IN POST CODE 070 ⑧
 IN FOUNDATION CRUSHED STONE
 IN UG MULTIPLE LED 280 LLY COBRA - 7 PIN
 IN UG PCLL



**Know what's below.
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DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Wincel, Thomas J		SI-2017 Intersection Improvements-Phase 2-Nov							
Phone		Work Order #	GIS-DSN	COH	CUL	CUG	PLC		
586.412.3028		48373389							
Supervisor		Circuit #1		Circuit #2		PH	SCMAT		
Brian R Kinnick		AKRON8980							
Service Center		Worksite City			Worksite Twp		County		
WWS		NOVI			NOV		Oakland		
Phone		JU Work to be Performed				JU	RSD		
734.397.4024		JU Company		Contact	Email	Phone			
Planning Engineer		JU Company		Contact	Email	Phone			
Phone		CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr
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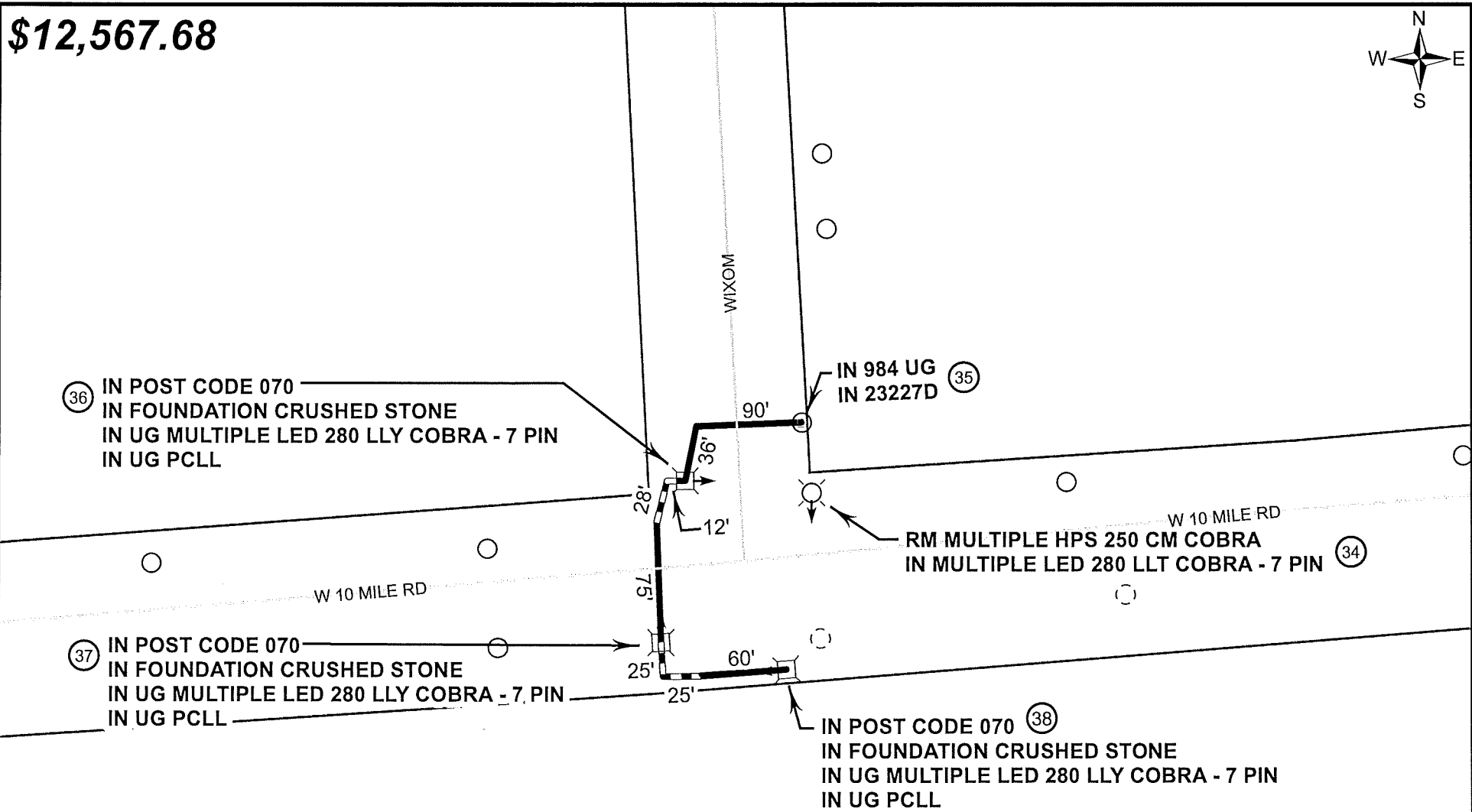
\$11,896.51



DTE Energy		DTE Electric - Distribution Engineering and Planning					
Service Planner		Work Order Description					
Wincel, Thomas J		SL-2017 Intersection Improvements-Phase 2-Novl					
Phone		Work Order #	GIS-DSN	COH	CUL	CUG	PLC
586.412.3028		48373389					
Supervisor		Circuit #1		Circuit #2		PH	SCMAT
Brian R Kinnick		TAHOE9134					
Phone		Service Center	Worksite City	Worksite Twp		County	
734.397.4024		WWS	NOVI	Geographic Township		Oakland	
Planning Engineer		JU Work to be Performed				JU	RSD
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		JU Company	Contact	Email	Phone		
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		Section		Qtr			
		20					



\$12,567.68



DTE Energy		DTE Electric - Distribution Engineering and Planning						
Service Planner	Work Order Description							
Wincel, Thomas J	SL-2017 Intersection Improvements-Phase 2-Novl							
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC		
586.412.3028	48373389							
Supervisor	Circuit #1	Circuit #2		PH	SCMAT			
Brian R Kinnick	TAHOE9157							
Phone	Service Center	Worksite City	Worksite Twp		County			
734.397.4024	WWS	NOVI	NOV		Oakland			
Planning Engineer	JU Work to be Performed				JU	RSD		
Phone	JU Company	Contact	Email	Phone				
	JU Company	Contact	Email	Phone				
	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr
	742068	1	10/11/2017		01N	08E	19	



**Know what's below.
Call before you dig**

\$1,366.54




CSX RAILROAD

20 INSTALL 135W LED
CODE 48, 23204B

21 INSTALL 605D

6A6D 96' W 10 MILE RD

		DTE Electric - Distribution Engineering and Planning					
Service Planner		Work Order Description					
Wincel, Thomas J		SI-2017 Intersection Improvements-Phase 2-Novl					
Phone		Work Order #	GIS-DSN	COH	CUL	CUG	PLC
586.412.3028		48373389					
Supervisor		Circuit #1		Circuit #2		PH	SCMAT
Brian R Kinnick		AKRON9047					
Phone		Service Center	Worksite City	Worksite Twp		County	
734.397.4024		WWS	NOVI	NOV		Oakland	
Planning Engineer		JU Work to be Performed				JU	RSD
		JU Company		Contact	Email	Phone	
		JU Company		Contact	Email	Phone	
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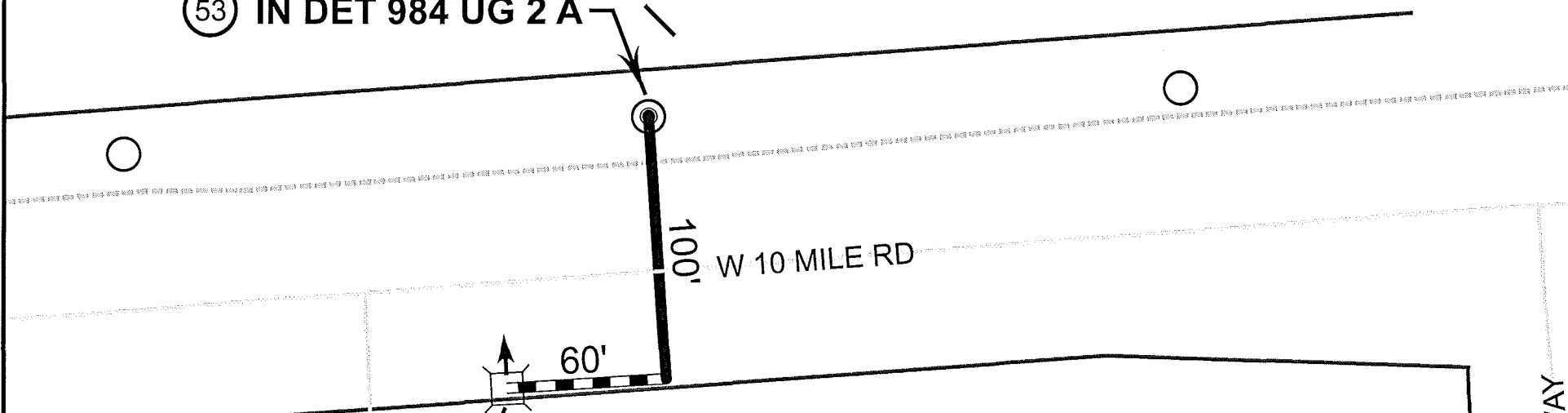


Know what's below.
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\$4,558.92



(53) IN DET 984 UG 2 A



**(52) IN POST CODE 070
 IN FOUNDATION CRUSHED STONE
 IN UG MULTIPLE LED 135 LLY COBRA - 7 PIN
 IN UG PCLL**

WILDCAT DRIVE

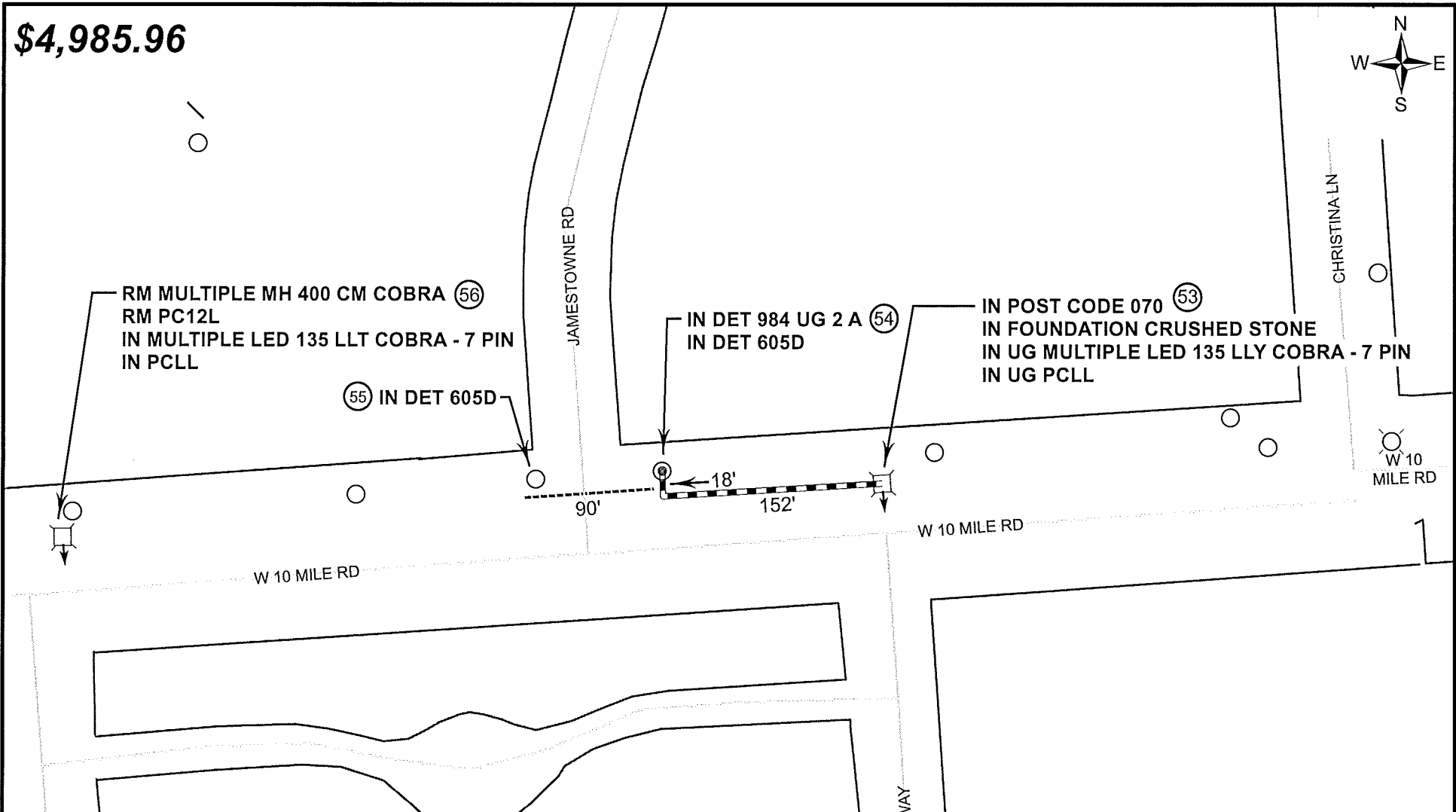
NOVI WAY

DTE Energy		DTE Electric - Distribution Engineering and Planning						
Service Planner	Work Order Description							
Wincel, Thomas J	SI-2017 Intersection Improvements-Phase 2-Novl							
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC		
586.412.3028	48373389							
Supervisor	Circuit #1		Circuit #2		PH	SCMAT		
Brian R Kinnick	TAHOE9512							
Phone	Service Center	Worksite City		Worksite Twp		County		
734.397.4024	WWS	NOVI		NOV		Oakland		
Planning Engineer	JU Work to be Performed			JU	RSD			
Phone	JU Company	Contact	Email		Phone			
	JU Company	Contact	Email		Phone			
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**Know what's below.
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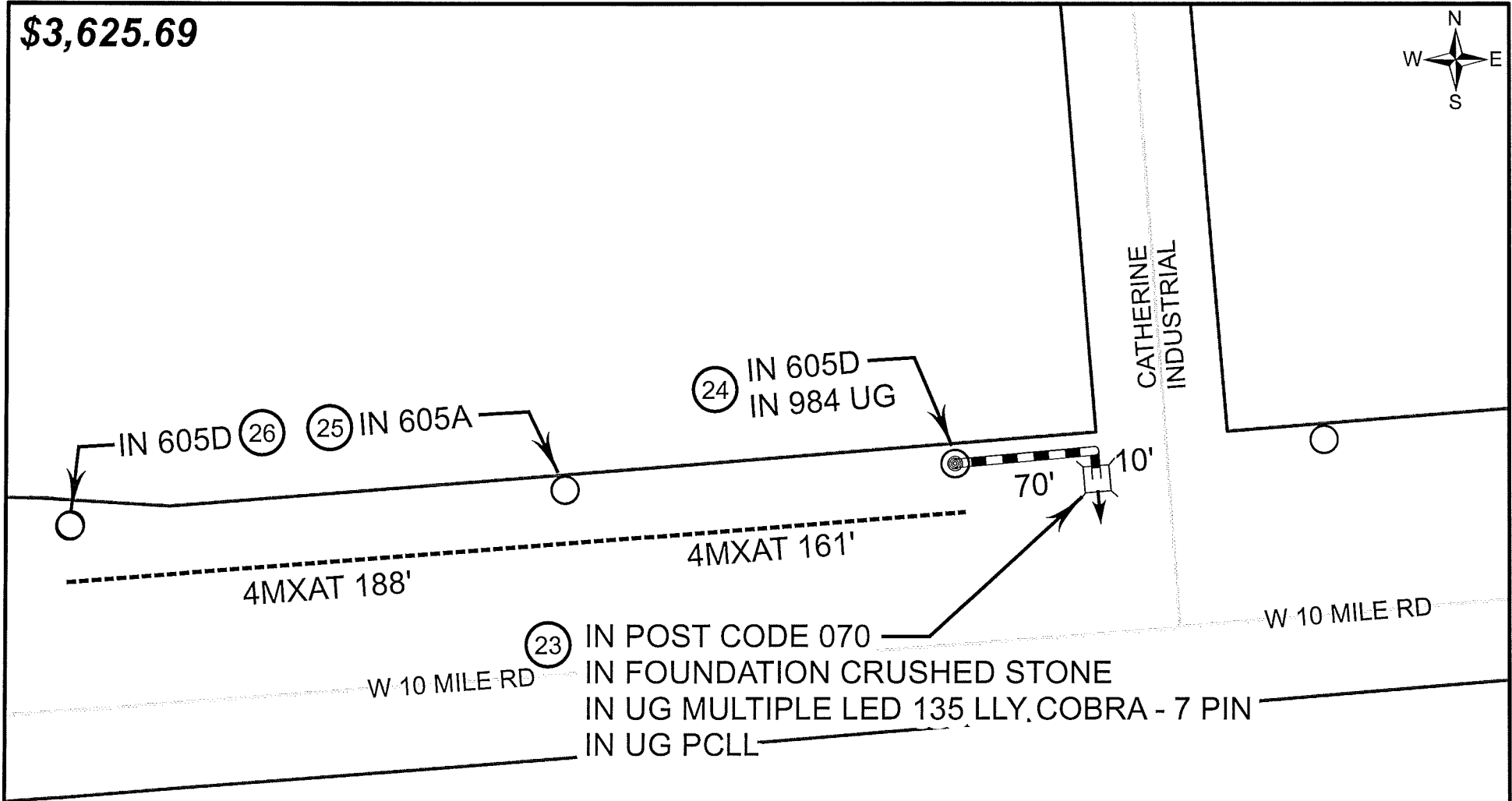
\$4,985.96



**Know what's below.
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DTE Energy		DTE Electric - Distribution Engineering and Planning					
Service Planner		Work Order Description					
Wincel, Thomas J		SL-2017 Intersection Improvements-Phase 2-Nov					
Phone		Work Order #	GIS-DSN	COH	CUL	CUG	PLC
586.412.3028		48373389					
Supervisor		Circuit #1		Circuit #2		PH	SCMAT
Brian R Kinnick		TAHOE9511					
Phone		Service Center	Worksite City	Worksite Twp		County	
734.397.4024		WWS	NOVI	Geographic Township		Oakland	
Planning Engineer		JU Work to be Performed				JU	RSD
Phone		JU Company		Contact	Email	Phone	
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		CUE Number		Ver	Plot Date	Scale	Town Range Section Qtr
		742068		1	11/12/2017		01N 08E 22

\$3,625.69



**Know what's below.
Call before you dig**

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Wincel, Thomas J		SL-2017 Intersection Improvements-Phase 2-Nov							
Phone		Work Order #	GIS-DSN	COH	CUL	CUG	PLC		
586.412.3028		48373389							
Supervisor		Circuit #1		Circuit #2		PH	SCMAT		
Brian R Kinnick		TAHOE9512							
Phone		Service Center	Worksite City		Worksite Twp		County		
734.397.4024		WWS	NOVI		NOV		Oakland		
Planning Engineer		JU Work to be Performed				JU	RSD		
Phone		JU Company		Contact	Email	Phone			
		JU Company		Contact	Email	Phone			
		CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr
		742068	1	10/1/2017		01N	08E	23	

\$2,156.75



KARIM BLVD



③ IN 605D ○

② IN 605A ○

① IN 135W LED
IN CODE S48
IN 23206A DE
IN PCLL



IN 6A6D - 204'

IN 6A6D - 212'

W 10 MILE RD

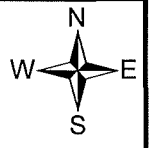
W 10 MILE RD



Know what's below.
Call before you dig

DTE Energy		DTE Electric - Distribution Engineering and Planning							
Service Planner		Work Order Description							
Wincel, Thomas J		SL-2017 Intersection Improvements-Phase 2-Nov							
Phone		Work Order #	GIS-DSN	COH	CUL	CUG	PLC		
586.412.3028		48373389							
Supervisor		Circuit #1	Circuit #2			PH	SCMAT		
Brian R Kinnick		SNSET9497							
Phone		Service Center	Worksite City		Worksite Twp		County		
734.397.4024		WWS	NOVI		NOV		Oakland		
Planning Engineer		JU Work to be Performed				JU	RSD		
Phone		JU Company		Contact	Email		Phone		
		JU Company		Contact	Email		Phone		
		CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr
		742068	1	10/1/2017		01N	08E	24	

\$2,419.15



BORDERHILL

INSTALL 135W LED,
CODE 48, 23206A

W 10 MILE RD

REMOVE EXISTING
SPAN LIGHT

W 10 MILE RD

IN 6A6D - 110'

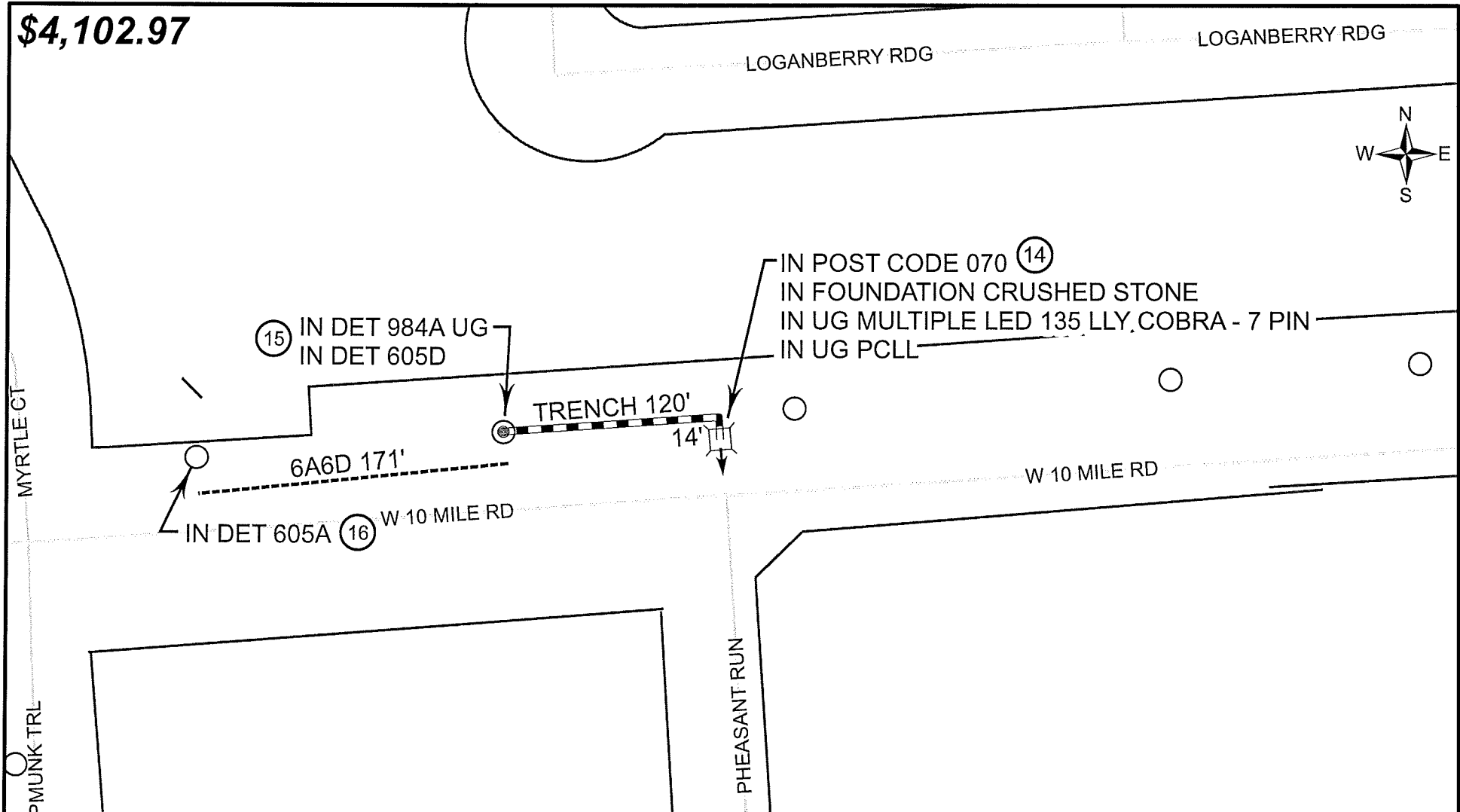
INSTALL 135W LED,
CODE 46, 23206A

RIPPLE CRK

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner	Work Order Description								
Wincel, Thomas J	SI -2017 Intersection Improvements-Phase 2-Novl								
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC			
586.412.3028	48373389								
Supervisor	Circuit #1	Circuit #2			PH	SCMAT			
	TAHOE9512								
Brian R Kinnick	Service Center	Worksite City			Worksite Twp		County		
Phone	WWS	NOVI			NOV		Oakland		
	JU Work to be Performed				JU	RSD			
734.397.4024									
Planning Engineer	JU Company		Contact	Email		Phone			
Phone	JU Company		Contact	Email		Phone			
	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr	
	742068	1	10/1/2017		01N	08E	23		



\$4,102.97



DTE Energy
DTE Electric - Distribution Engineering and Planning

Service Planner		Work Order Description								
Wincel, Thomas J		SI-2017 Intersection Improvements-Phase 2-Novl								
Phone	586.412.3028	Work Order #	48373389	GIS-DSN	COH	CUL	CUG	PLC		
Supervisor	AKRON8980		Circuit #1	Circuit #2	PH	SCMAT				
Brian R Kinnick	Service Center	WWS	Worksite City	NOVI	Worksite Twp	Geographic Township		County		
Phone	734.397.4024		JU Work to be Performed		JU	RSD				
Planning Engineer	JU Company	Contact	Email	Phone						
Phone	JU Company	Contact	Email	Phone						
CUE Number	742068	Ver	1	Plot Date	10/1/2017	Scale	Town	Range	Section	Qtr
							01N	08E	23	



**Know what's below.
Call before you dig**

\$2,720.06



⑱ INSTALL 135W LED
CODE 48, 24206A

⑰ INSTALL 135W LED
CODE 48, 24206A

MYRTLE CT

6A6D 167"

6A6D 100"

CHIPMUNK TRL

W 10 MILE RD

W 10 MILE RD

IN DET 605D ⑲

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Wincel, Thomas J		SI-2017 Intersection Improvements-Phase 2-Novl							
Phone		Work Order #	GIS-DSN	COH	CUL	CUG	PLC		
586.412.3028		48373389							
Supervisor		Circuit #1		Circuit #2		PH	SCMAT		
Brian R Kinnick		AKRON8980							
Phone		Service Center	Worksite City		Worksite Twp		County		
734.397.4024		WWS	NOVI		Geographic Township		Oakland		
Planning Engineer		JU Work to be Performed			JU		RSD		
		JU Company		Contact	Email	Phone			
		JU Company		Contact	Email	Phone			
Phone		CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr
		742068	1	10/1/2017		01N	08E	23	



Know what's below.
Call before you dig

\$778.01

HOMESTEAD CT



IN MULTIPLE LED 135 LLT COBRA - 7 PIN (28)
 IN OH CODE S46
 IN PCLL

W 10 MILE RD

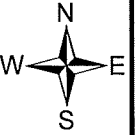
W 10 MILE RD



Know what's below.
 Call before you dig

										DTE Electric - Distribution Engineering and Planning												
Service Planner					Work Order Description																	
Wincel, Thomas J					SL-2017 Intersection Improvements-Phase 2-Novi																	
Phone					Work Order #			GIS-DSN			COH			CUL			CUG			PLC		
586.412.3028					48373389																	
Supervisor					Circuit #1			Circuit #2			PH			SCMAT								
Brian R Kinnick					TAHOE9260																	
Phone					Service Center			Worksite City			Worksite Twp			County								
734.397.4024					WWS			NOVI			NOV			Oakland								
Planning Engineer					JU Work to be Performed																	
					JU Company			Contact			Email			Phone								
Phone					JU Company			Contact			Email			Phone								
					CUE Number		Ver	Plot Date			Scale		Town		Range		Section		Qtr			
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\$840.65




NOVI RD

NOVI RD

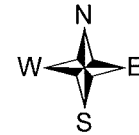
VERO CT

IN MULTIPLE LED 135 LLT COBRA - 7 PIN (49)
IN OH CODE S48
IN DET 23206A
IN PCLL



 DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Wincel, Thomas J		SI-2017 Intersection Improvements-Phase 2-Nowi							
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC			
586.412.3028	48373389								
Supervisor	Circuit #1	Circuit #2			PH	SCMAT			
	NVILL9374								
Brian R Kinnick	Service Center	Worksite City			Worksite Twp		County		
	WWS	NOVI			Geographic Township		Oakland		
Phone	JU Work to be Performed				JU		RSD		
734.397.4024	JU Company		Contact		Email		Phone		
Planning Engineer	JU Company		Contact		Email		Phone		
Phone	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr	
	742068	1	10/18/2017		01N	08E	34		

\$977.10



NOVI RD

NOVI RD

(27) RM MULTIPLE MV, 175 CM COBRA
 RM OH CODE S46
 RM PC12L
 IN MULTIPLE LED 135 LLT COBRA - 7 PIN
 IN PCLL



W 10 MILE RD

W 10 MILE RD

										DTE Electric - Distribution Engineering and Planning												
Service Planner					Work Order Description																	
Wincel, Thomas J					SI -2017 Intersection Improvements-Phase 2-Novi																	
Phone					Work Order #			GIS-DSN			COH			CUL			CUG			PLC		
586.412.3028					48373389																	
Supervisor					Circuit #1			Circuit #2			PH			SCMAT								
Brian R Kinnick					TAHOE9512																	
Phone					Service Center			Worksite City			Worksite Twp			County								
734.397.4024					WWS			NOVI			NOV			Oakland								
					JU Work to be Performed			JU			RSD											
Planning Engineer					JU Company			Contact			Email			Phone								
Phone					JU Company			Contact			Email			Phone								
					CUE Number			Ver	Plot Date			Scale		Town		Range		Section		Qtr		
					742068			1	10/1/2017					01N		08E		Section				

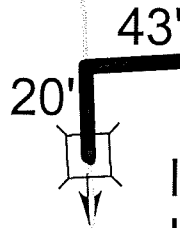


Know what's below.
 Call before you dig

\$3,325.79



MANOR PARK



IN 984A UG (13)

IN POST CODE 070 (12)

IN FOUNDATION CRUSHED STONE

IN UG MULTIPLE LED 135 LLY COBRA - 7 PIN
IN UG PCLL

W 10 MILE RD



Know what's below.
Call before you dig

DTE Energy		DTE Electric - Distribution Engineering and Planning						
Service Planner	Work Order Description							
Wincel, Thomas J	SL-2017 Intersection Improvements-Phase 2-Nov							
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC		
586.412.3028	48373389							
Supervisor	Circuit #1		Circuit #2		PH	SCMAT		
Brian R Kinnick	AKRON8980							
Phone	Service Center	Worksite City	Worksite Twp		County			
734.397.4024	WWS	NOVI	Geographic Township		Oakland			
Planning Engineer	JU Work to be Performed		JU		RSD			
	JU Company	Contact	Email		Phone			
	JU Company	Contact	Email		Phone			
Phone	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr
	742068	1	10/1/2017		01N	08E	23	