

CITY of NOVI CITY COUNCIL

**Agenda Item H
March 18, 2019**

SUBJECT: Approval of a Street Light Purchase Agreement with DTE Energy for the installation and ongoing operation cost of twenty-three (23) street lights at twenty (20) intersections and convert street lights at 5 intersections to LED Lighting to enhance motorist and pedestrian safety as part of the 2019 Novi Intersection Improvements project.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

CITY MANAGER APPROVAL: *[Signature]*

EXPENDITURE REQUIRED	\$ 59,999.06 Street Light Installations
	\$ 5,805.74 Street Light Operating Costs
	\$ 65,804.80 TOTAL City share
AMOUNT BUDGETED	\$ 70,000 Street Light Installations
	\$ 152,000 Street Light Operations
LINE ITEM NUMBER	101-442.10-924.050 Street Light Installations
	101-442.20-924.000 Street Light Operations

BACKGROUND INFORMATION:

The Department of Public Works (DPW) has identified twenty (20) intersections that would benefit from overhead lighting. DTE Energy's attached proposal enhances intersection safety by adding twenty-three (23) new LED street lights and convert existing sodium halide street lights to LED street lights at five (5) intersections. 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 \$76,466.87. 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 \$16,467.81. The three-year revenue credit lowers the total contribution from the City to \$59,999.06.

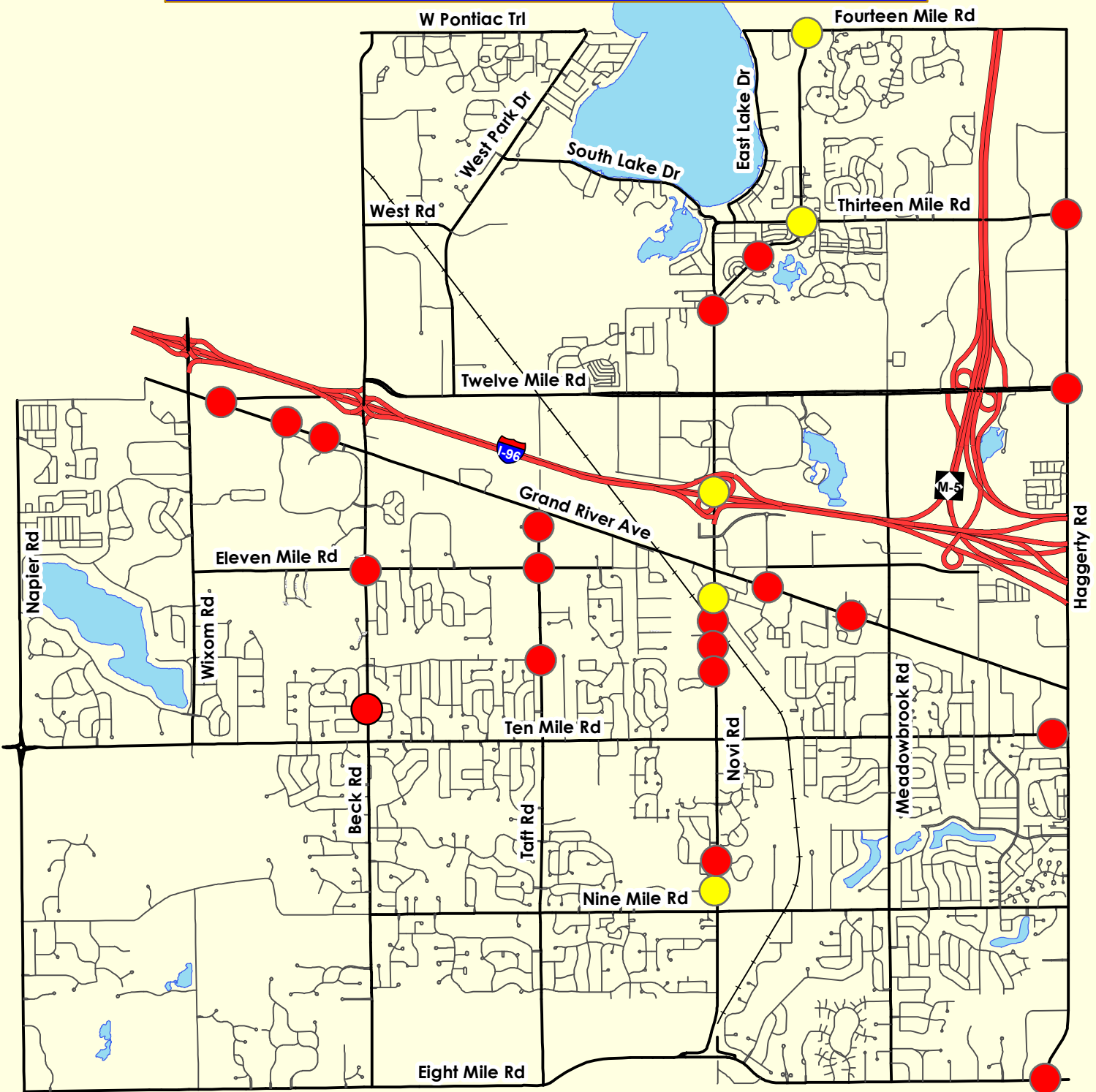
In order to facilitate installation of the street lights, DTE Energy is requesting approval and execution of the attached Purchase Agreement. The agreement requires the City to pay the total installation cost of \$59,999.06 and an ongoing annual operating cost of \$5,805.74 for the operation and maintenance of the street lights. As with all other street light installations, the City pays DTE Energy directly.

The proposed agreement has been reviewed and is recommended for approval by Engineering staff and the City Attorney (Beth Saarela, March 5, 2019).

RECOMMENDED ACTION: Approval of a Street Light Purchase Agreement with DTE Energy for the installation and ongoing operation cost of twenty-three (23) street lights at twenty (20) intersections and convert street lights at 5 intersections to LED Lighting to enhance motorist and pedestrian safety as part of the 2019 Novi Intersection Improvements project.

Phase 3 Street Lighting Improvements

Location Map



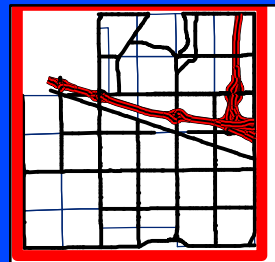
Map Author: Joseph Akers
 Date: January 23, 2019
 Project: Phase 3 Street Lighting
 Version: 1

Amended By: Rebecca Runkel
 Date: 3/5/19
 Department: Engineering

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.

- Proposed Street Light Installations
- Proposed Street Light Conversions



City of Novi

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



1 inch = 4,293 feet



City of Novi: 2019 Phase III Street Lighting

PRIORITY	CHILD WORK ORDER	LOCATION DESCRIPTION	PROPOSED OH/UG	WATTAGE	# OF LIGHT	COST ESTIMATE	RCOC PERMIT	ANNUAL OPERATING COST	3 YEAR REVENUE CREDIT	UP-FRONT CIAC TOTAL	NOTES
1	Conversion	Novi Rd & I-96	n/a								
2	Conversion	Novi Rd & Cottisford	n/a								
3	52259542	Novi Rd & Gen-Mar	Overhead	136	1	\$2,303.62	\$500.00	\$172.98	\$518.94	\$2,284.68	
4	52259500	Novi Rd & Trans-X	Underground	238	1	\$8,238.05	\$500.00	\$365.27	\$1,095.81	\$7,642.24	
5	52259500	Novi Rd & Post Office (24875 Novi Rd)	Underground	136	1	\$3,256.89	\$500.00	\$316.47	\$949.41	\$2,807.48	
6	Conversion	Novi Rd & Flint/Main	n/a								
7	52259500	Novi Rd & 12 1/2 Mile	Underground	136	1	\$7,395.50		\$316.47	\$949.41	\$6,446.09	
8	52259500	Novi Rd & Ledgerview	Underground	136	1	\$5,839.58		\$316.47	\$949.41	\$4,890.17	
9	Conversion	Novi Rd & 13 Mile	n/a								
10	Conversion	Novi Rd & 14 Mile	n/a								
11	52259542	Novi Rd & Citation Dr	Overhead	136	1	\$838.27		\$172.98	\$518.94	\$319.33	
12	52259500	Grand River & Main St/Town Center	Underground	136	2	\$3,936.59		\$632.94	\$1,898.82	\$2,037.77	
13	52259500	Grand River & Portico Ln	Underground	136	1	\$4,674.65	\$500.00	\$316.47	\$949.41	\$4,225.24	
14	52259500	Grand River & Providence Pkwy	Underground	136	1	\$8,059.74	\$500.00	\$316.47	\$949.41	\$7,610.33	
15	52259542	Grand River & W. Market Square	Overhead	136	1	\$1,471.46		\$172.98	\$518.94	\$952.52	
16	52259542	Grand River & 12 Mile	Overhead	136	1	\$838.27		\$172.98	\$518.94	\$319.33	
18	52259542	Taft Rd & Emerald Forest	Overhead	58	1	\$794.36		\$141.58	\$424.74	\$369.62	
20	52259500	Taft Rd & 11 Mile	Underground	136	1	\$4,472.85		\$316.47	\$949.41	\$3,523.44	
21	52259500	Taft Rd & Andes Hills Ct	Underground	58	1	\$4,888.03		\$260.90	\$782.70	\$4,105.33	
22	52259542	Beck Rd & 11 Mile	Overhead	136	2	\$3,278.19		\$345.96	\$1,037.88	\$2,240.31	
23	52259542	8 Mile & Haggerty (NWC & NEC)	Overhead	136	1	\$1,612.66		\$172.98	\$518.94	\$1,093.72	
34	52259500	12 Mile & Haggerty (NWC & SWC)	Underground	136	2	\$7,657.82	\$500.00	\$632.94	\$1,898.82	\$6,259.00	
35	52259542	13 Mile & Haggerty (NWC & SWC)	Overhead	136	1	\$1,965.73	\$500.00	\$172.98	\$518.94	\$1,946.79	
42	52259542	10 Mile West of Haggerty	Overhead	136	1	\$1,018.61		\$172.98	\$518.94	\$499.67	
43	52259500	Beck and Ashley Blvd	Underground	136	1	\$426.00		\$316.47	\$0.00	\$426.00	
				Total =	23	\$72,966.87	\$3,500.00	\$5,805.74	\$16,467.81	\$59,999.06	

Added Priority 43 to list per G. Melistas on 2/4/19

ELIZABETH KUDLA SAARELA
esaarela@rsjalaw.com

27555 Executive Drive, Suite 250
Farmington Hills, Michigan 48331
P 248.489.4100 | F 248.489.1726
rsjalaw.com



ROSATI | SCHULTZ
JOPPICH | AMTSBUECHLER

March 5, 2019

Rebecca Runkel, Engineering Technician
City of Novi
Field Services Complex
26300 Lee BeGole Drive
Novi, Michigan 48375

Re: DTE Phase III Street Lighting – Purchase Agreement for Municipal Street Lighting

Dear Ms. Runkel:

We have received and reviewed the Master Agreement for Municipal Street Lighting dated September 16, 2013, and Purchase Agreement (Work Order 52235818) for the City's Phase III Street Lighting Project.

The Master Agreement for Municipal Street Lighting ("Master Agreement") and corresponding Purchase Agreement are standard form agreements prepared by DTE Energy for use in projects for installation and maintenance of new street lighting. 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 City should be aware that the cost provided in the Purchase Agreement is an estimate and may increase based upon conditions found underground at the time of construction, pursuant to the Master Agreement.

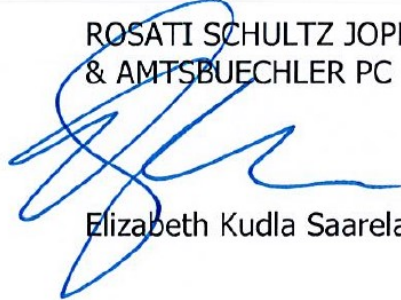
Subject to Engineering's review of the types and locations of the lighting detailed within the Purchase Agreement and corresponding exhibits, the terms of the Master Agreement and Purchase Agreement, generally are acceptable and are in part, subject to rates and other rules imposed by the Michigan Public Services Commission.

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

Rebecca Runkel, Engineering Technician
City of Novi
March 5, 2019
Page 2

Very truly yours,

ROSATI SCHULTZ JOPPICH
& AMTSBUECHLER PC



Elizabeth Kudla Saarela

EKS

Enclosures

C: Cortney Hanson, Clerk (w/Enclosures)
George Melistas, Senior Engineering Manager (w/Enclosures)
Thomas R. Schultz, Esquire (w/Enclosures)



March 1, 2019

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

Re: City of Novi- Phase III DTE Street Lighting

Attached is the agreement for the work to be performed in the budget letter was sent on February 8, 2019. A detailed description of the project is outlined in the agreements. Please print **TWO** copies. Please sign **BOTH** copies in the designated areas. A check in the amount of **\$59,999.06** is also required at this time. Please return **BOTH** signed agreements (as well as check or Purchase Order...made payable to **DTE Energy**) to the following address:

DTE Energy
8001 Haggerty Rd.
Belleville, MI 48111
140 WWSC-Brandon Faron

Upon receipt of **BOTH** signed copies (and payment), we (DTE Energy) will then sign **BOTH** copies and return **ONE** original back to you.

Please call if you have questions, 734-397-4017.

Sincerely,

Brandon R. Faron

Brandon R. Faron
Account Manager
Community Lighting


Exhibit A to Master Agreement

Purchase Agreement

This Purchase Agreement (this "Agreement") is dated as of March 1, 2019 between DTE Electric 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:	52235818 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:	[20 various intersection locations in City of Novi], as more fully described on the map attached hereto as <u>Attachment 1</u> .	
3. Total number of lights to be installed:	23	
4. Description of Equipment to be installed (the " <u>Equipment</u> "):	<p><u>Overhead (OH)</u> Install nine (9) 136w and one (1) 58w stock LED fixtures with gray or black housing mounted on existing or new wood poles.</p> <p><u>Underground (UG)</u> Install one (1) 238w, eleven (11) 136w, and one (1) 58w stock LED fixtures with gray or black housing on stock black 30' direct buried fiberglass posts</p>	
5. Estimated Total Annual Lamp Charges	\$5,805.74	
6. Computation of Contribution in aid of Construction (" <u>CIAC Amount</u> ")	Total estimated construction cost, including labor, materials, and overhead:	\$76,466.87
	Credit for 3 years of lamp charges: New Installations Only	\$16,467.81
	CIAC Amount (cost minus revenue)	\$59,999.06
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?	<p>(Check One) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>If "No", Customer must sign below and acknowledge that the lighting design does not meet IESNA recommended practices</p> <p align="right">_____ </p>	
10. Customer Address for Notices:	City of Novi 26300 Lee BeGole Dr Novi, MI 48375 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's 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 warrantees, 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.

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

Company:

DTE Electric Company

By: _____

Name: _____

Title: _____

Customer:

City of Novi

By: _____

Name: _____

Title: _____



Attachment 1 to Purchase Agreement

Map of Location

[To be attached]

MISS DIG:

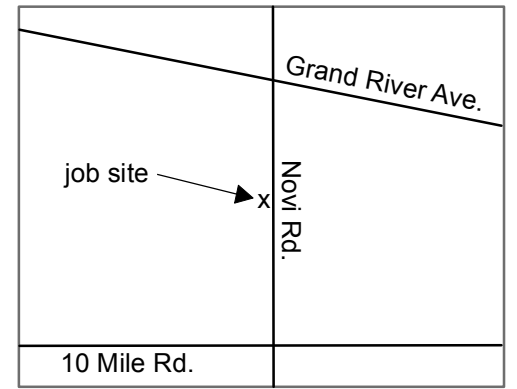
(THIS SHEET ONLY)

- ③ 55' +- W C/L NOVI RD.
- 38' +- S C/L GEN MAR RD.

Streetlight Billing Summary

O310 - NOVI CITY OF
 9000 NOVI IN 1 *521
 9000 NOVI IN 9 *701
 UNASSIGNED RM 2 *071
 UNASSIGNED RM 1 *091

*** FOR ALL SHEETS ***



GEN MAR RD.

NOVI RD.

IN: 40 4 PINE
 IN: SSS-DET 282
 IN: MULTIPLE LED 136 LGC COBRA - GRAY
 IN: PCLL
 IN: OH CODE S48
 IN: DET 23206A
 GLN: 231467-356066
 L136 - AFZ875 - 9000 NOVI - O310 - *701

IN: DET 605A

IN: 6A6D SEC - 2 SPANS

IN: TAP 6A6D SEC
 USE EXISTING SECONDARY RACK

POLE DROP

95'

92'

JOB NOTES:

- SITE IS TRUCK ACCESSIBLE.
- POLE LOCATION IS STAKED / PAINTED.
- WORK TO BE DONE UNDER OAKLAND COUNTY ANNUAL PERMIT.

PARENT WORK ORDER: 52235818
 DRAWING SIZE: 11" x 17" - ANSI B

SHEET 1 OF 9

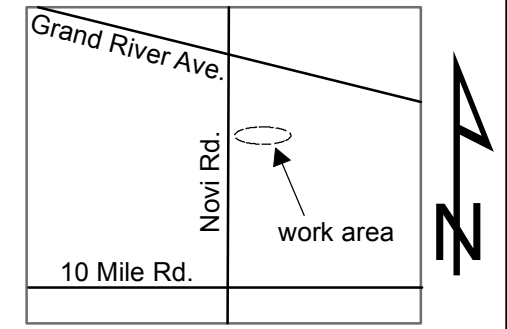
LEGEND

- LIGHTING CONTROL
- DECO POLE
- CABLE POLE
- STREETLIGHT ON POST
- STREETLIGHT ON POLE
- PADMOUNT TRANSFORMER
- SECONDARY PEDESTAL
- 120/240 V LINE
- 4.8 kV LINE
- 13.2 kV LINE
- CABLE IN CONDUIT - DIRECTIONAL BORE
- CABLE IN CONDUIT - TRENCH

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 OH Ph III Intersection Lighting-NovI							
Phone	586.783.1969	Work Order #	52259542	GIS-DSN	52259544	COH	52259554	CUL	PLC
Supervisor	Brian R Kinnick	Service Center	WWS	Worksite City	NOVI	Worksite Twp		PH	52259551
Phone	734.397.4024	JU Work to be Performed	NONE	County	Oakland			SCMAT	52259553
Planning Engineer		JU Company		County	RSD				
Phone		Contact		Email		Phone			
		Contact		Email		Phone			
		CUE Number	855802	Ver	1	Plot Date	3/1/2019	Scale	NONE
		Town		Range		Section		Qtr	



Know what's below.
Call before you dig



NOVI RD.

② IN: POST CODE 070
IN: FOUNDATION CRUSHED STONE
IN: UG MULTIPLE LED 238 LGC COBRA - GRAY
IN: UG PCLL
GLN: 231532-357079
L136 - AFZ889 - 9000 NOVI - O310 - *705

IN: #2AL x 2, #4AL x 1
IN: 2" HDPE CONDUIT
IN: STREETLIGHT BORE

① IN: DET 984 #2AL - LIGHTING

TRANS X RD.

320' BORE

JOB NOTES:

SITE IS TRUCK ACCESSIBLE.
POST IS ON AN ELEVATED STRUCTURE.
SOIL DEPTH IS UNKNOWN.
POST LOCATIONS IS STAKED AND PAINTED.

LEGEND	
	LIGHTING CONTROL
	DECO POLE
	CABLE POLE
	STREETLIGHT ON POST
	STREETLIGHT ON POLE
	PADMOUNT TRANSFORMER
	SECONDARY PEDESTAL
	120/240 V LINE
	4.8 kV LINE
	13.2 kV LINE
	CABLE IN CONDUIT - DIRECTIONAL BORE
	CABLE IN CONDUIT - TRENCH

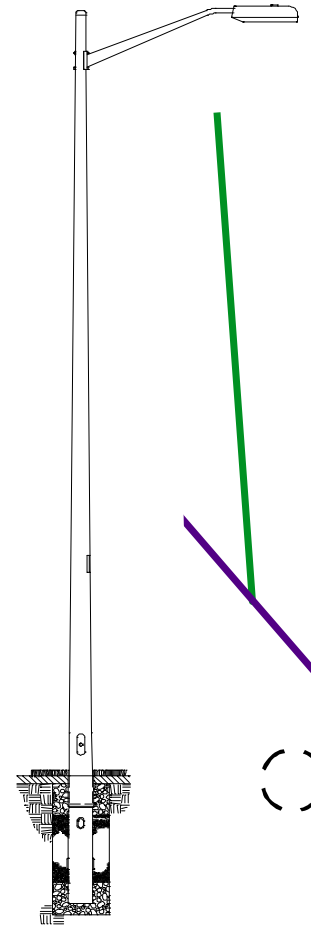
SHEET 1 OF 11

PARENT WORK ORDER: 52235810
DRAWING SIZE: 11" x 17" - ANSI B

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 UG Ph III Intersection Lighting-NovI							
Work Order #	GIS-DSN	COH	CUL	CUG	PLC				
52259500	52259524		52259534						
Phone	586.783.1969	Circuit #1	Circuit #2		PH	SCMAT			
Supervisor	AKRON9047					52259533			
Brian R Kinnick	Service Center	Worksite City		Worksite Twp		County			
	WWS	NOVI				Oakland			
Phone	734.397.4024		NONE		JU	RSD			
Planning Engineer	JU Company	Contact	Email		Phone				
	JU Company	Contact	Email		Phone				
Phone	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr	
	855803	1	3/4/2019	NONE					

POST CODE 070

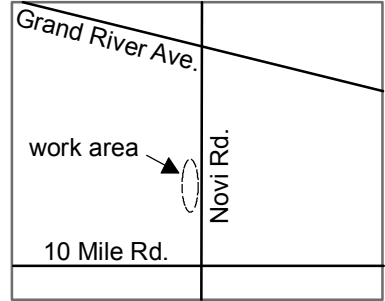
RAILWAY





Know what's below.
Call before you dig

NOVI RD.



IN: DET 984 #2AL - LIGHTING

4

13' BORE

IN: #2AL x 2, #4AL x 1
IN: 2" HDPE CONDUIT

IN: POST CODE 070
IN: FOUNDATION CRUSHED STONE
IN: UG MULTIPLE LED 136 LGC COBRA - GRAY
IN: UG PCLL
GLN: 231517-355589
L136 - AFZ890 - 9000 NOVI - O310 - *703

5

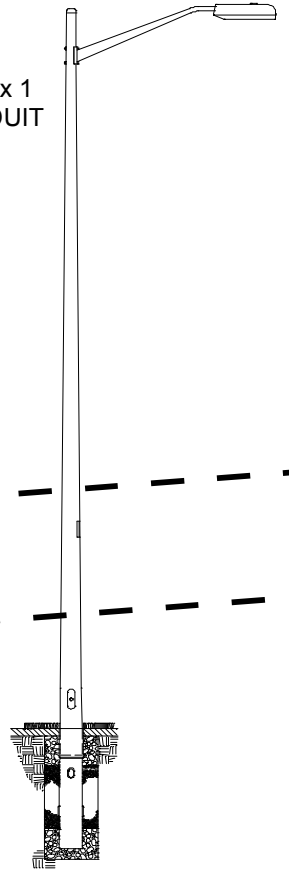
76' TRENCH

24875 NOVI RD.

POST OFFICE
DRIVEWAY

JOB NOTES:

- SITE IS TRUCK ACCESSIBLE.
- POST LOCATION IS STAKED AND PAINTED.
- OAKLAND COUNTY PERMIT REQUIRED.
- TRENCHING / BORING AS INDICATED.



POST CODE 070

SHEET 2 OF 11

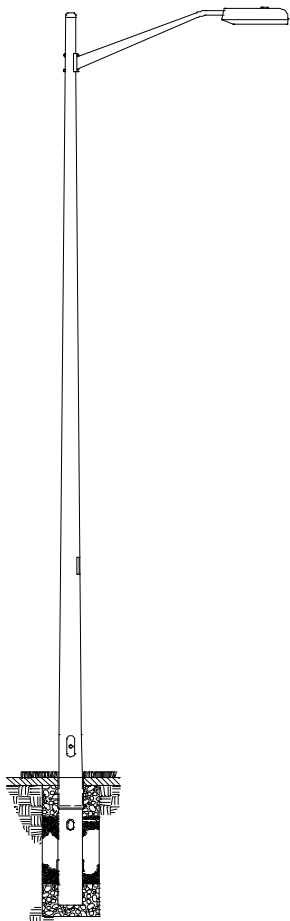
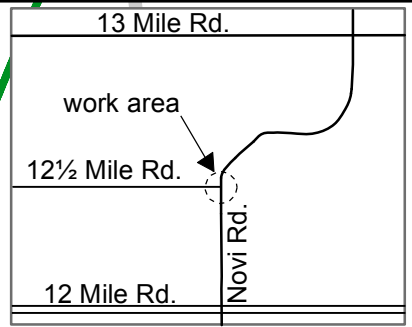
PARENT WORK ORDER: 52235810
DRAWING SIZE: 8½" x 11" - ANSI A

LEGEND	
	LIGHTING CONTROL
	DECO POLE
	CABLE POLE
	STREETLIGHT ON POST
	STREETLIGHT ON POLE
	PADMOUNT TRANSFORMER
	SECONDARY PEDESTAL
	120/240 V LINE
	4.8 kV LINE
	13.2 kV LINE
	CABLE IN CONDUIT - DIRECTIONAL BORE
	CABLE IN CONDUIT - TRENCH

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 UG Ph III Intersection Lighting-NovI							
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC			
586.783.1969	52259500	52259524		52259534					
Supervisor	Circuit #1		Circuit #2			PH	SCMAT		
	AKRON9047						52259533		
Brian R Kinnick	Service Center	Worksite City		Worksite Twp		County			
	WWS	NOVI				Oakland			
Phone	JU Work to be Performed		JU		RSD				
734.397.4024	NONE								
Planning Engineer	JU Company		Contact	Email		Phone			
	JU Company		Contact	Email		Phone			
Phone	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr	
	855803	1	3/1/2019	NONE					



Know what's below.
Call before you dig



POST CODE 070

IN: POST CODE 070
 IN: FOUNDATION CRUSHED STONE
 IN: UG MULTIPLE LED 136 LGC COBRA - GRAY
 IN: UG PCLL
 GLN: 230973-366635
 L136 - AFZ891 - 9000 NOVI - O310 - *705

8

NOVI RD.

85' BORE

12 1/2 MILE RD.

76' TRENCH

IN: #2AL x 2, #4AL x 1
 IN: 2" HDPE CONDUIT

7

IN: DET 1713
 IN: DUAL 120/240V 25-3
 IN: 100A S&C w/25K FUSE
 IN: STANDARD GROUND ASBY
 IN: DET 609A
 IN: DET 984 UG #2AL LIGHTING
 GLN: 230898-366621

JOB NOTES:

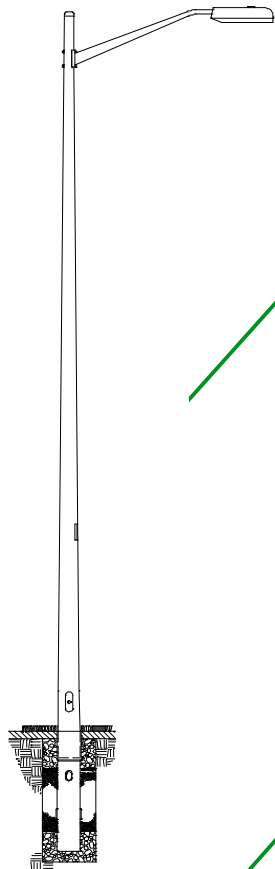
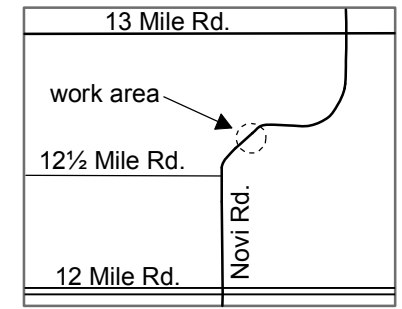
POST LOCATION IS STAKED AND PAINTED.
 TRENCHING / BORING AS INDICATED.

LEGEND	
	OVERHEAD TRANSFORMER
	DECO POLE
	CABLE POLE
	STREETLIGHT ON POST
	STREETLIGHT ON POLE
	PADMOUNT TRANSFORMER
	SECONDARY PEDESTAL
	120/240 V LINE
	4.8 kV LINE
	13.2 kV LINE
	CABLE IN CONDUIT - DIRECTIONAL BORE
	CABLE IN CONDUIT - TRENCH

SHEET 3 OF 11

PARENT WORK ORDER: 52235810
 DRAWING SIZE: 11" x 17" - ANSI B

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 UG Ph III Intersection Lighting-NovI							
Phone	586.783.1969	Work Order #	52259500	GIS-DSN	52259524	COH	CUL	CUG	PLC
Supervisor	Brian R Kinnick	Circuit #1	AKRON9321			Circuit #2	PH	SCMAT 52259533	
Service Center	WWS	Worksite City	NOVI			Worksite Twp	County Oakland		
Phone	734.397.4024	JU Work to be Performed	NONE			JU	RSD		
Planning Engineer		JU Company				Contact	Email		Phone
Phone		JU Company				Contact	Email		Phone
CUE Number	855803	Ver	1	Plot Date	3/1/2019	Scale	NONE		Town Range Section Qtr



POST CODE 070

NOVI RD.

11 IN: POST CODE 070
 IN: FOUNDATION CRUSHED STONE
 IN: MULTIPLE LED 136 LGC COBRA - BLACK
 IN: UG PCLL
 GLN: 232396-368303
 L136 - AFZ892 - 9000 NOVI - O310 - *705

6' FROM B.O.C.

IN: #2AL x 2, #4AL x 1
 IN: 2" HDPE CONDUIT

185' BORE

15' BORE

10 IN: DET 23227E
 PF H5622-1

HEARTHSTONE DR.

LEDGEVIEW DR.

SHEET 4 OF 11

PARENT WORK ORDER: 52235810
 DRAWING SIZE: 8½" x 11" - ANSI A

LEGEND

- LIGHTING CONTROL
- DECO POLE
- CABLE POLE
- STREETLIGHT ON POST
- STREETLIGHT ON POLE
- PADMOUNT TRANSFORMER
- SECONDARY PEDESTAL
- 120/240 V LINE
- 4.8 kV LINE
- 13.2 kV LINE
- CABLE IN CONDUIT
- DIRECTIONAL BORE
- TRENCH

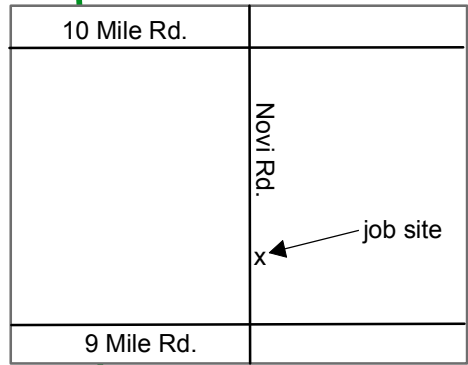
JOB NOTES:

SITE IS TRUCK ACCESSIBLE.
 POST LOCATION IS STAKED / PAINTED.

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 UG Ph III Intersection Lighting-NovI							
Phone		Work Order #	GIS-DSN	COH	CUL	CUG	PLC		
586.783.1969		52259500	52259524			52259534			
Supervisor		Circuit #1		Circuit #2		PH	SCMAT		
Brian R Kinnick		AKRON9321					52259533		
Phone		Service Center	Worksite City		Worksite Twp		County		
734.397.4024		WWS	NOVI				Oakland		
Planning Engineer		JU Work to be Performed		JU		RSD			
		NONE							
Phone		JU Company		Contact	Email		Phone		
		JU Company		Contact	Email		Phone		
CUE Number		Ver	Plot Date	Scale	Town	Range	Section	Qtr	
855803		1	3/1/2019	NONE	01N	08E	11		

JOB NOTES:

POLE IS TRUCK ACCESSIBLE.



CITATION ST.

NOVI RD.

④

IN: MULTIPLE LED 136 LGC COBRA - GRAY
 IN: PCLL
 IN: S48 SUPPORT
 GLN: 231785-349664
 L136 - AFZ876 - 9000 NOVI - O310 - *701

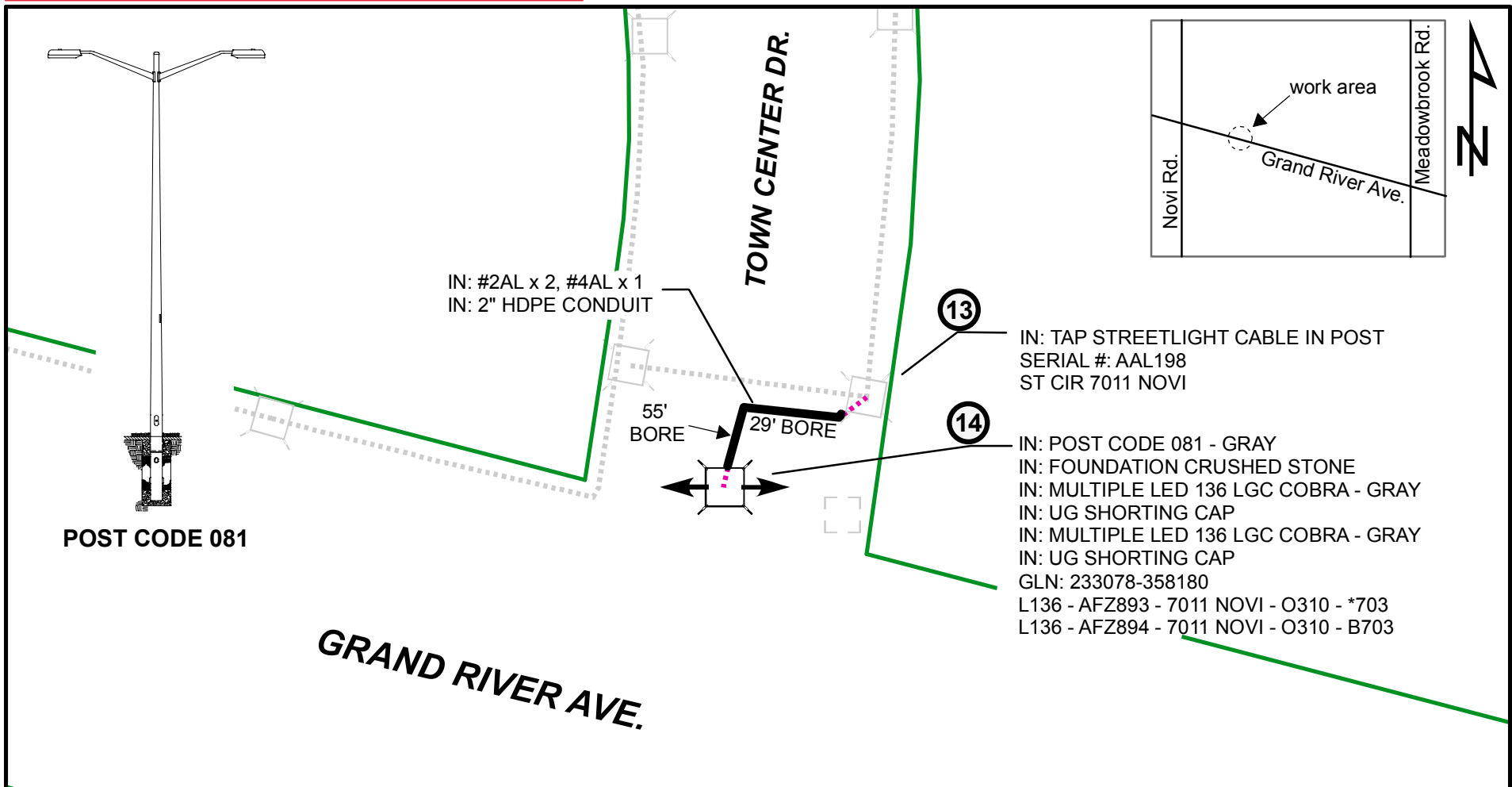
SHEET 2 OF 9

PARENT WORK ORDER: 52235818
 DRAWING SIZE: 8½" x 11" - ANSI A

LEGEND

- LIGHTING CONTROL
- DECO POLE
- CABLE POLE
- STREETLIGHT ON POST
- STREETLIGHT ON POLE
- PADMOUNT TRANSFORMER
- SECONDARY PEDESTAL
- 120/240 V LINE
- 4.8 KV LINE
- 13.2 KV LINE
- CABLE IN CONDUIT
- DIRECTIONAL BORE
- CABLE IN CONDUIT - TRENCH

DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 OH Ph III Intersection Lighting-NovI							
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC			
586.783.1969	52259542	52259544	52259554						
Supervisor	Circuit #1		Circuit #2			PH	SCMAT		
	586.783.1969						52259553		
Brian R Kinnick	Service Center	Worksite City		Worksite Twp		County			
	WWS	NOVI				Oakland			
Phone	JU Work to be Performed		JU		RSD				
734.397.4024	NONE								
Planning Engineer	JU Company		Contact	Email		Phone			
	JU Company		Contact	Email		Phone			
Phone	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr	
	855802	1	3/1/2019	NONE					



LEGEND

- LIGHTING CONTROL
- DECO POLE
- CABLE POLE
- STREETLIGHT ON POST
- STREETLIGHT ON POLE
- PADMOUNT TRANSFORMER
- SECONDARY PEDESTAL
- 120/240 V LINE
- 4.8 kV LINE
- 13.2 kV LINE
- CABLE IN CONDUIT
- DIRECTIONAL BORE
- CABLE IN CONDUIT - TRENCH

JOB NOTES:

SITE IS TRUCK ACCESSIBLE.

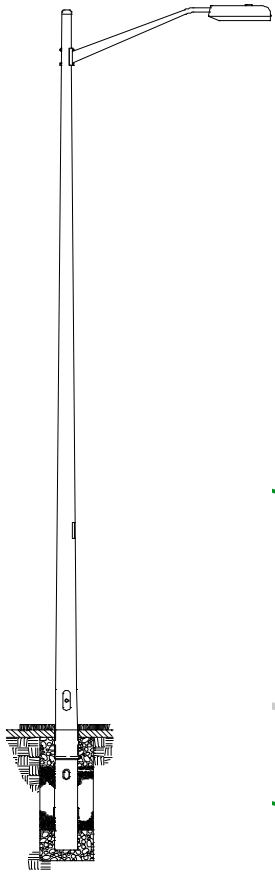
POST LOCATION IS STAKED / PAINTED.

OPERATING MAP REQUIRED.

SHEET 5 OF 11

PARENT WORK ORDER: 52235810
DRAWING SIZE: 8½" x 11" - ANSI A

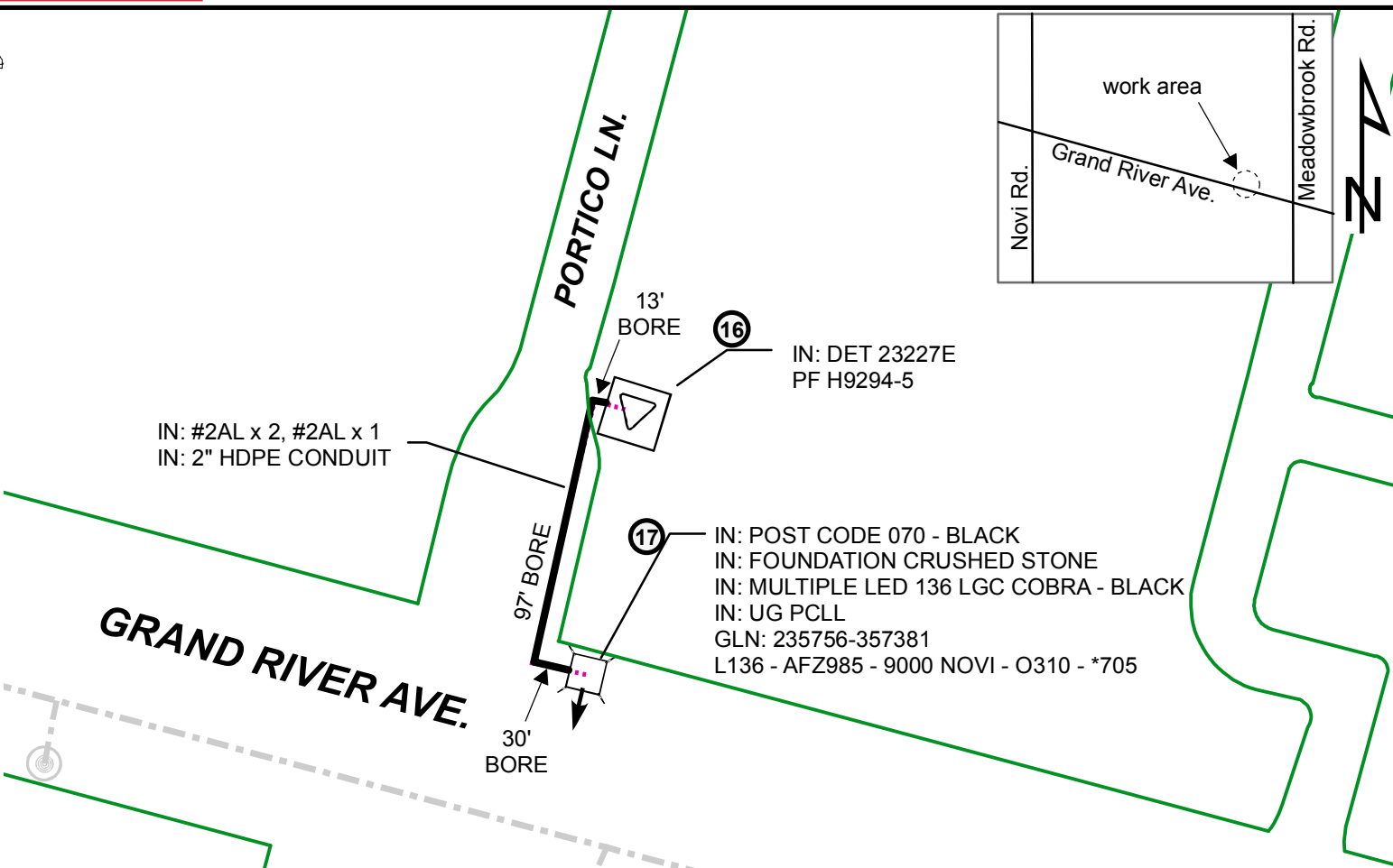
DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-Nov, 2019 UG Ph III Intersection Lighting-Nov, 2019							
Phone	52259500	52259524	COH	CUL	52259534	CUG	PLC		
586.783.1969	Circuit #1		Circuit #2			PH	SCMAT		
Supervisor	ST CIR 7011 NOVI		AKRON8971				52259533		
Brian R Kinnick	Service Center	Worksite City		Worksite Twp		County			
Phone	WWS	NOVI				Oakland			
734.397.4024	JU Work to be Performed								
Planning Engineer	NONE								
Phone	JU Company		Contact	Email		Phone			
	JU Company		Contact	Email		Phone			
	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr	
	855803	1	3/1/2019	NONE	01N	08E	23		



POST CODE 070

LEGEND

- LIGHTING CONTROL
- DECO POLE
- CABLE POLE
- STREETLIGHT ON POST
- STREETLIGHT ON POLE
- PADMOUNT TRANSFORMER
- SECONDARY PEDESTAL
- 120/240 V LINE
- 4.8 kV LINE
- 13.2 kV LINE
- CABLE IN CONDUIT
- DIRECTIONAL BORE
- CABLE IN CONDUIT - TRENCH



JOB NOTES:

- SITE IS TRUCK ACCESSIBLE.
- POST LOCATION IS STAKED / PAINTED.
- OAKLAND COUNTY PERMIT REQUIRED.

SHEET 6 OF 11

PARENT WORK ORDER: 52235810
DRAWING SIZE: 8½" x 11" - ANSI A

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 UG Ph III Intersection Lighting-NovI							
Phone	52259500	52259524	COH	CUL	52259534	CUG	PLC		
586.783.1969	Circuit #1		Circuit #2			PH	SCMAT		
Supervisor	AKRON8980								
Brian R Kinnick	Service Center	Worksite City		Worksite Twp			County		
Phone	WWS	NOVI					Oakland		
734.397.4024	NONE								
Planning Engineer	JU Company		Contact	Email			Phone		
	JU Company		Contact	Email			Phone		
Phone									
CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr		
855803	1	3/1/2019	NONE	01N	08E	23			

IN: POST CODE 070
 IN: FOUNDATION CRUSHED STONE
 IN: MULTIPLE LED 136 LGC COBRA - BLACK
 IN: UG PCLL
 GLN: 218068-362518
 L136 - AFZ896 - 9000 NOVI - O310 - *705

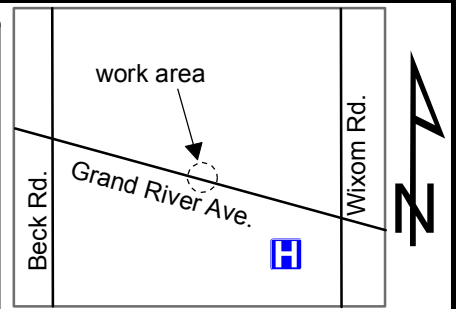
IN: #2AL x 2, #4AL x 1
 IN: 2" HDPE CONDUIT

IN: DET 1721
 IN: DUAL 120/240V 25-3
 IN: 100A S&C w/ 25K FUSE
 IN: STANDARD GROUND ASBY
 IN: DET 609A
 IN: DET 984 #2AL LIGHTING

POST CODE 070

LEGEND

- LIGHTING CONTROL
- DECO POLE
- CABLE POLE
- ◀ STREETLIGHT ON POST
- ◀ STREETLIGHT ON POLE
- ▽ PADMOUNT TRANSFORMER
- SECONDARY PEDESTAL
- 120/240 V LINE
- 4.8 kV LINE
- 13.2 kV LINE
- CABLE IN CONDUIT - DIRECTIONAL BORE
- CABLE IN CONDUIT - TRENCH



GRAND RIVER AVE.

PROVIDENCE PKWY.
 (WEST HOSPITAL ENTRANCE)

JOB NOTES:

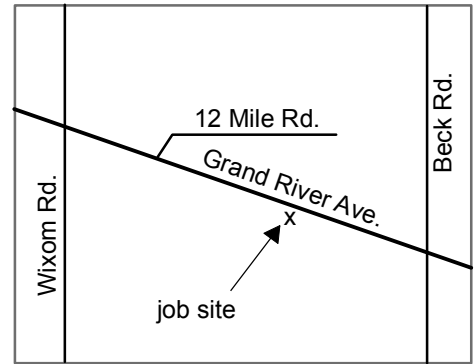
SITE IS TRUCK ACCESSIBLE.
 POST LOCATION IS STAKED / PAINTED.
 OAKLAND COUNTY PERMIT REQUIRED.

SHEET 7 OF 11

PARENT WORK ORDER: 52235810
 DRAWING SIZE: 8½" x 11" - ANSIA

DTE Energy													
DTE Electric - Distribution Engineering and Planning													
Service Planner			Work Order Description										
Mira, Christopher			NBUS-NovI 2019 UG Ph III Intersection Lighting-NovI										
Phone			Work Order #		GIS-DSN		COH		CUL		CUG	PLC	
586.783.1969			52259500		52259524				52259534				
Supervisor			Circuit #1			Circuit #2			PH		SCMAT		
Brian R Kinnick			TAHOE9509								52259533		
Service Center			Worksite City			Worksite Twp			County				
WWS			NOVI						Oakland				
Phone			JU Work to be Performed			JU			RSD				
734.397.4024			NONE										
Planning Engineer			JU Company			Contact			Email		Phone		
			JU Company			Contact			Email		Phone		
Phone			CUE Number			Ver	Plot Date		Scale	Town	Range	Section	Qtr
			855803	1	3/1/2019		NONE	01N	08E	17			

#15: Grand River and W. Market Square 1 OH



IN: MULTIPLE LED 136 LGC COBRA - GRAY
 IN: PCLL
 IN: S48 SUPPORT
 IN: DET 23206A
 GLN: 219221-362098
 L136 - AFZ877 - 9000 NOVI - O310 - *701

⑥



GRAND RIVER AVE.

⑤

IN: DET 605D
 IN: (2) PERM JUMPERS - SECONDARY



140'

IN: 6A6D SEC - 1 SPAN

W. MARKET SQUARE

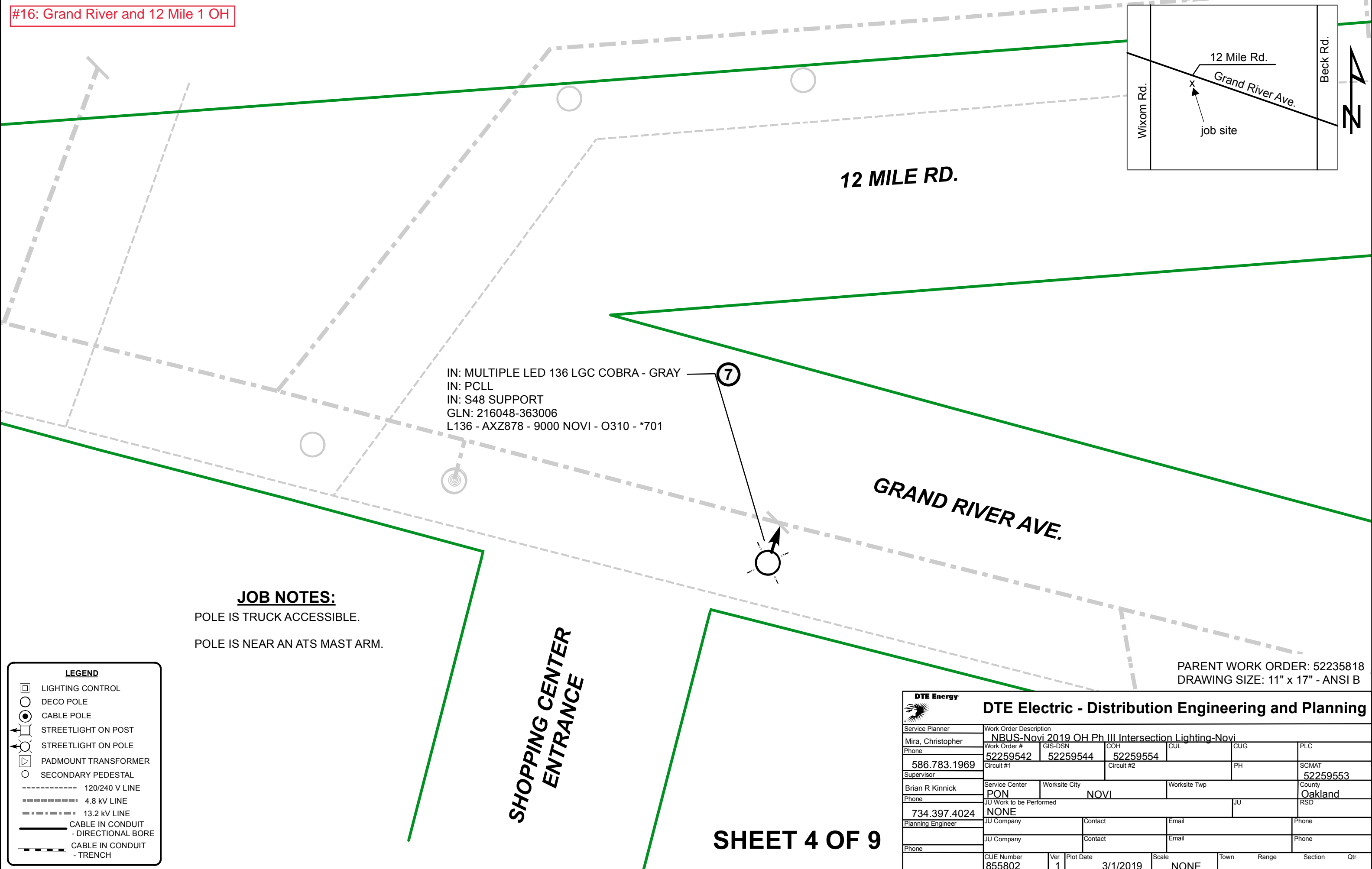
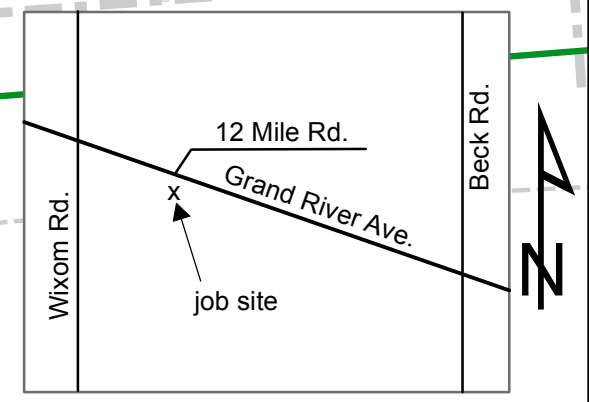
SHEET 3 OF 9

PARENT WORK ORDER: 52235818
 DRAWING SIZE: 8½" x 11" - ANSI A

JOB NOTES:

POLES ARE TRUCK ACCESSIBLE.

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 OH Ph III Intersection Lighting-NovI							
Phone		Work Order #	GIS-DSN	COH	CUL	CUG	PLC		
586.783.1969		52259542	52259542	52259554					
Supervisor		Circuit #1		Circuit #2		PH	SCMAT		
Brian R Kinnick							52259553		
Phone		Service Center	Worksite City		Worksite Twp		County		
734.397.4024		WWS	NOVI				Oakland		
Planning Engineer		JU Work to be Performed		JU		RSD			
		NONE							
Phone		JU Company		Contact		Email		Phone	
Phone		JU Company		Contact		Email		Phone	
CUE Number		Ver	Plot Date	Scale	Town	Range	Section	Qtr	
855802		1	3/1/2019	NONE	01N	08E	17		



IN: MULTIPLE LED 136 LGC COBRA - GRAY
 IN: PCLL
 IN: S48 SUPPORT
 GLN: 216048-363006
 L136 - AXZ878 - 9000 NOVI - O310 - *701

7

JOB NOTES:
 POLE IS TRUCK ACCESSIBLE.
 POLE IS NEAR AN ATS MAST ARM.

SHOPPING CENTER
 ENTRANCE

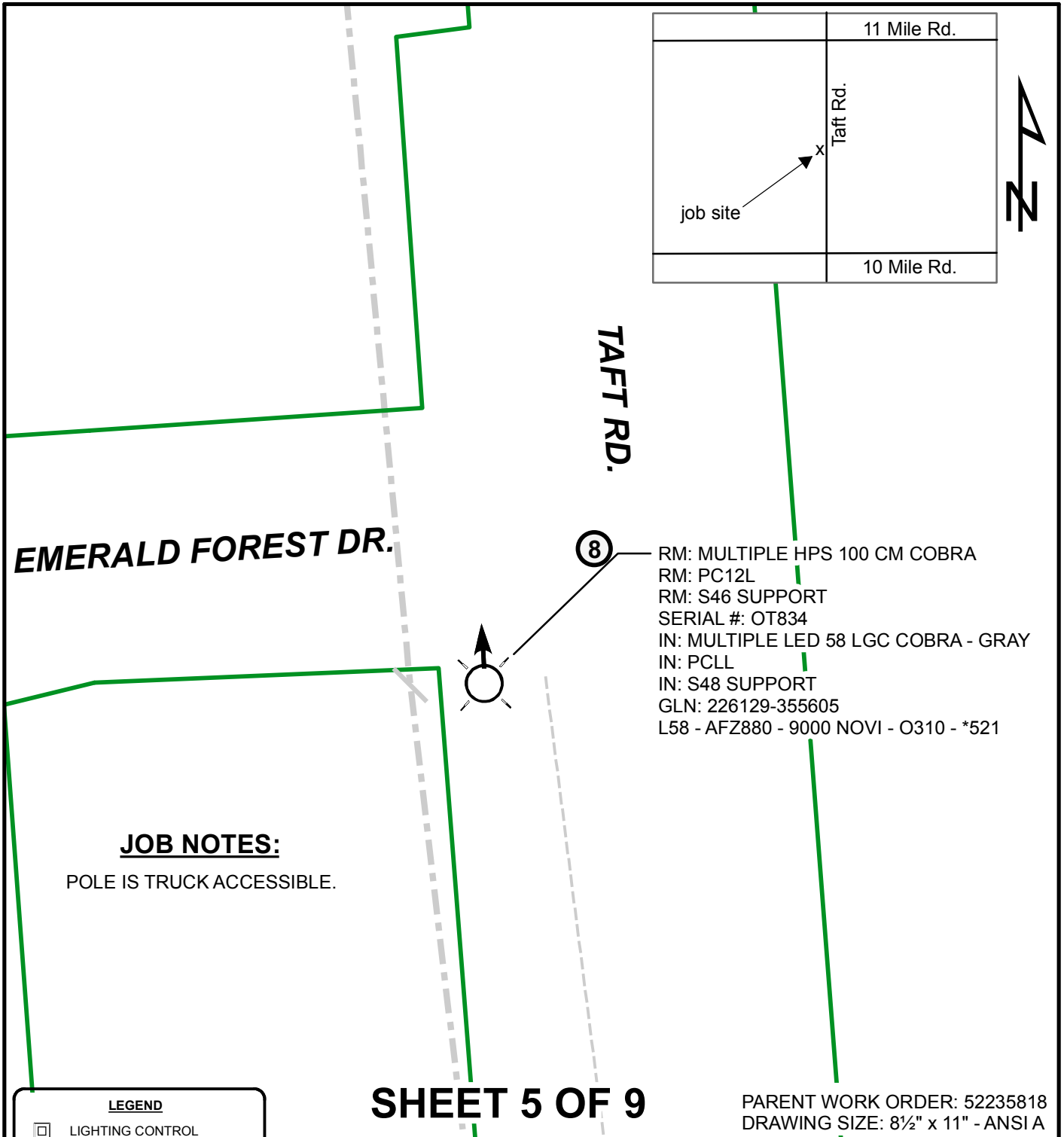
PARENT WORK ORDER: 52235818
 DRAWING SIZE: 11" x 17" - ANSI B

LEGEND

- LIGHTING CONTROL
- DECO POLE
- CABLE POLE
- STREETLIGHT ON POST
- STREETLIGHT ON POLE
- PADMOUNT TRANSFORMER
- SECONDARY PEDESTAL
- 120/240 V LINE
- 4.8 kV LINE
- 13.2 kV LINE
- CABLE IN CONDUIT - DIRECTIONAL BORE
- CABLE IN CONDUIT - TRENCH

SHEET 4 OF 9

DTE Energy		DTE Electric - Distribution Engineering and Planning					
Service Planner		Work Order Description					
Mira, Christopher		NBUS-Nov 2019 OH Ph III Intersection Lighting-Nov					
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC	
586.783.1969	52259542	52259544	52259554				
Supervisor	Circuit #1		Circuit #2		PH	SCMAT	
Brian R Kinnick						52259553	
Phone	Service Center	Worksite City	Worksite Twp		County		
734.397.4024	PON	NOVI			Oakland		
Planning Engineer	JU Work to be Performed		JU		RSD		
	NONE						
Phone	JU Company	Contact	Email		Phone		
	JU Company	Contact	Email		Phone		
	CUE Number	Ver	Plot Date	Scale	Town	Range	
	855802	1	3/1/2019	NONE			
					Section	Qtr	

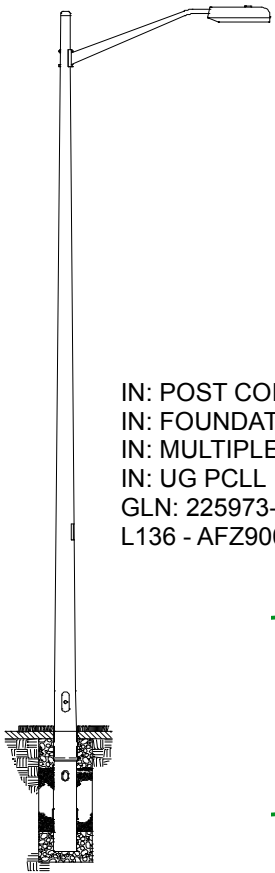


SHEET 5 OF 9

PARENT WORK ORDER: 52235818
 DRAWING SIZE: 8½" x 11" - ANSI A

LEGEND	
	LIGHTING CONTROL
	DECO POLE
	CABLE POLE
	STREETLIGHT ON POST
	STREETLIGHT ON POLE
	PADMOUNT TRANSFORMER
	SECONDARY PEDESTAL
	120/240 V LINE
	4.8 kV LINE
	13.2 kV LINE
	CABLE IN CONDUIT - DIRECTIONAL BORE
	CABLE IN CONDUIT - TRENCH

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 OH Ph III Intersection Lighting-NovI							
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC			
586.783.1969	52259542	52259544	52259554						
Supervisor	TAHOE9511		Circuit #1	Circuit #2	PH	SCMAT 52259553			
Brian R Kinnick	Service Center	Worksite City	Worksite Twp			County			
734.397.4024	WWS	NOVI				Oakland			
Phone	JU Work to be Performed		JU	RSD					
734.397.4024	NONE								
Planning Engineer	JU Company	Contact	Email			Phone			
	JU Company	Contact	Email			Phone			
Phone	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr	
	855802	1	3/1/2019	NONE					



POST CODE 070

IN: POST CODE 070
 IN: FOUNDATION CRUSHED STONE
 IN: MULTIPLE LED 136 LGC COBRA - GRAY
 IN: UG PCLL
 GLN: 225973-358452
 L136 - AFZ900 - 9000 NOVI - O310 - *705

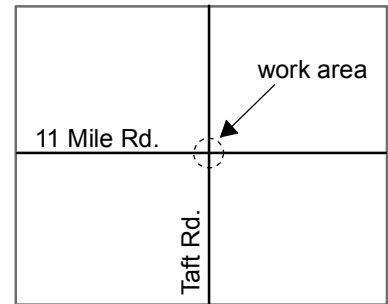
TAFIT RD.

11 MILE RD.

160' BORE

IN: DET 984 #2AL - LIGHTING

IN: #2AL x 2, #4AL x 1
 IN: 2" HDPE CONDUIT



LEGEND

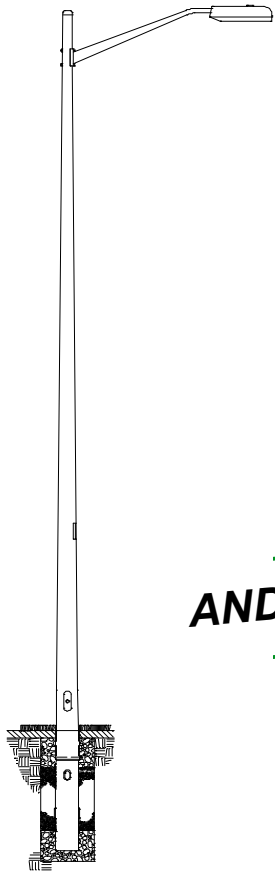
- LIGHTING CONTROL
- DECO POLE
- CABLE POLE
- STREETLIGHT ON POST
- STREETLIGHT ON POLE
- PADMOUNT TRANSFORMER
- SECONDARY PEDESTAL
- 120/240 V LINE
- 4.8 kV LINE
- 13.2 kV LINE
- CABLE IN CONDUIT
- DIRECTIONAL BORE
- CABLE IN CONDUIT - TRENCH

JOB NOTES:
 SITE IS TRUCK ACCESSIBLE.
 POST LOCATION IS STAKED / PAINTED.

SHEET 8 OF 11

PARENT WORK ORDER: 52235810
 DRAWING SIZE: 8½" x 11" - ANSI A

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 UG Ph III Intersection Lighting-NovI							
Phone	52259500	52259524	COH	CUL	52259534	CUG	PLC		
586.783.1969	Circuit #1		Circuit #2			PH	SCMAT		
Supervisor	TAHOE8928						52259533		
Brian R Kinnick	Service Center	Worksite City		Worksite Twp		County			
Phone	WWS	NOVI				Oakland			
734.397.4024	JU Work to be Performed				JU		RSD		
Planning Engineer	JU Company		Contact	Email		Phone			
	JU Company		Contact	Email		Phone			
Phone			Contact	Email		Phone			
	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr	
	855803	1	3/1/2019	NONE					



POST CODE 070

IN: POST CODE 070
 IN: FOUNDATION CRUSHED STONE
 IN: MULTIPLE LED 58 LGC COBRA - GRAY
 IN: UG PCLL
 GLN: 225879-359746
 L58 - AFZ901 - 9000 NOVI - O310 - *525

ANDES HILLS CT.

TAFT RD.

11 Mile Rd.

Taft Rd.

work area



30

52' BORE

135' BORE

IN: #2AL x 2, #4AL x 1
 IN: 2" HDPE CONDUIT

29

IN: DET 23227E
 PF H4257-1

PARENT WORK ORDER: 52235810
 DRAWING SIZE: 8½" x 11" - ANSI A

SHEET 9 OF 11

LEGEND

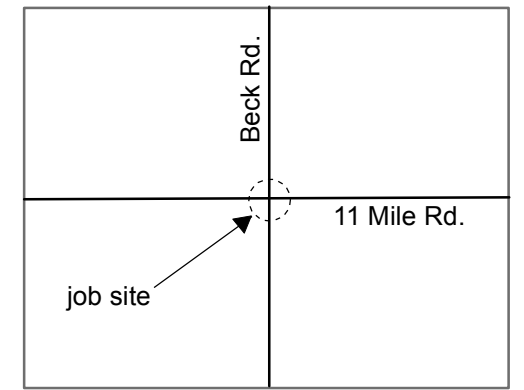
- LIGHTING CONTROL
- DECO POLE
- CABLE POLE
- STREETLIGHT ON POST
- STREETLIGHT ON POLE
- PADMOUNT TRANSFORMER
- SECONDARY PEDESTAL
- 120/240 V LINE
- 4.8 kV LINE
- 13.2 kV LINE
- CABLE IN CONDUIT
- DIRECTIONAL BORE
- CABLE IN CONDUIT - TRENCH

JOB NOTES:
 SITE IS TRUCK ACCESSIBLE.
 POST LOCATION IS STAKED / PAINTED.

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 UG Ph III Intersection Lighting-NovI							
Phone	52259500	GIS-DSN	52259524	COH	CUL	52259534	CUG	PLC	
	586.783.1969	Circuit #1	TAHOE8928			Circuit #2	PH	SCMAT	52259533
Supervisor	Brian R Kinnick		Service Center	WWS	Worksite City	NOVI	Worksite Twp	County	Oakland
Phone	734.397.4024		JU Work to be Performed	NONE			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	
	855803	1	3/1/2019	NONE					

MISS DIG:

42' +/- E C/L BECK
82' +/- S C/L 11 MILE RD.



BECK RD.

11 MILE RD.

⑨ IN: MULTIPLE LED 136 LGC COBRA
IN: PCLL
IN: S48 SUPPORT
GLN: 220745-358220
L136 - AFZ881 - 9000 NOVI - O310 - *701

⑩ IN: DET 605D

IN: 6A6D SEC - 1 SPAN

⑪ IN: 40 4 PINE
IN: SSS-DET 282
IN: MULTIPLE LED 136 LGC COBRA - GRAY
IN: PCLL
IN: S48 SUPPORT
IN: DET 23206A
GLN: 220677-358101
L136 - AXZ882 - 9000 NOVI - O310 - *701

⑫ RM: MULTIPLE MV 175 CM COBRA
RM: PC12L
RM: SUPPORT S46
SERIAL #: W2762
IN: DET 605D

JOB NOTES:
POLES ARE TRUCK ACCESSIBLE.
POLE LOCATION IS STAKED / PAINTED.

SHEET 6 OF 9

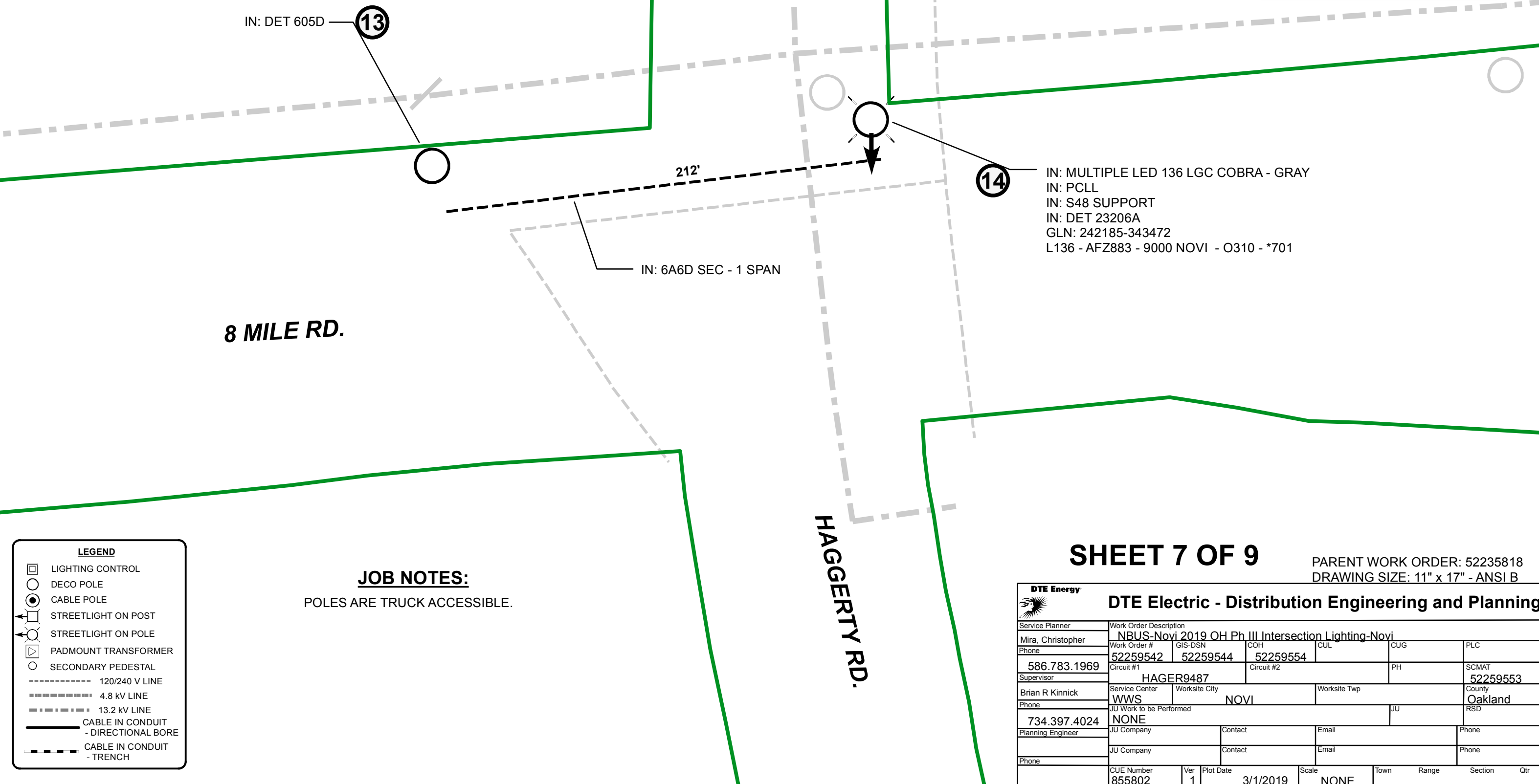
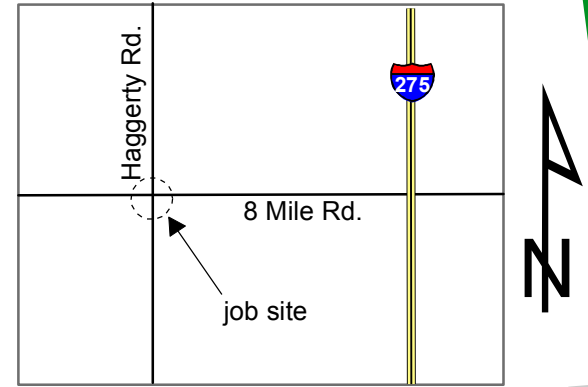
PARENT WORK ORDER: 52235818
DRAWING SIZE: 11" x 17" - ANSI B

LEGEND

- LIGHTING CONTROL
- DECO POLE
- CABLE POLE
- STREETLIGHT ON POST
- STREETLIGHT ON POLE
- PADMOUNT TRANSFORMER
- SECONDARY PEDESTAL
- 120/240 V LINE
- 4.8 kV LINE
- 13.2 kV LINE
- CABLE IN CONDUIT - DIRECTIONAL BORE
- CABLE IN CONDUIT - TRENCH

IN: 6A6D SEC - 1 SPAN
POLE DROP

DTE Energy		DTE Electric - Distribution Engineering and Planning					
Service Planner		Work Order Description					
Mira, Christopher		NBUS-Nov 2019 OH Ph III Intersection Lighting-Nov					
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC	
586.783.1969	52259542	52259544	52259554				
Supervisor	Circuit #1		Circuit #2		PH	SCMAT	
Brian R Kinnick	52259551		52259553		52259551	52259553	
Phone	Service Center	Worksite City	Worksite Twp		County		
734.397.4024	WWS	NOVI			Oakland		
Planning Engineer	JU Work to be Performed		JU		RSD		
	NONE						
Phone	JU Company	Contact	Email		Phone		
	JU Company	Contact	Email		Phone		
	CUE Number	Ver	Plot Date	Scale	Town	Range	
	855802	1	3/1/2019	NONE			
					Section	Qtr	



IN: DET 605D **13**

14 IN: MULTIPLE LED 136 LGC COBRA - GRAY
 IN: PCLL
 IN: S48 SUPPORT
 IN: DET 23206A
 GLN: 242185-343472
 L136 - AFZ883 - 9000 NOVI - O310 - *701

212'

IN: 6A6D SEC - 1 SPAN

8 MILE RD.

HAGGERTY RD.

LEGEND

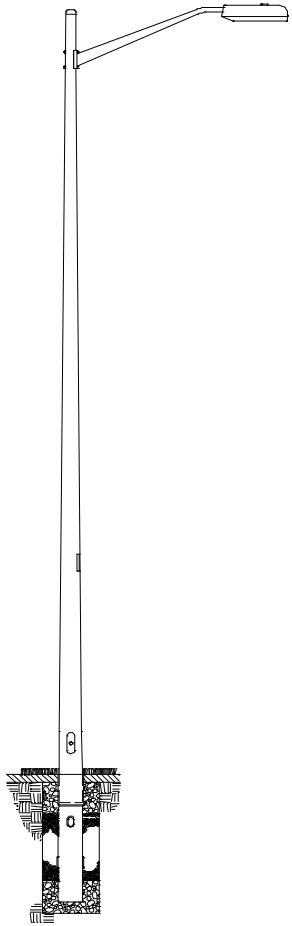
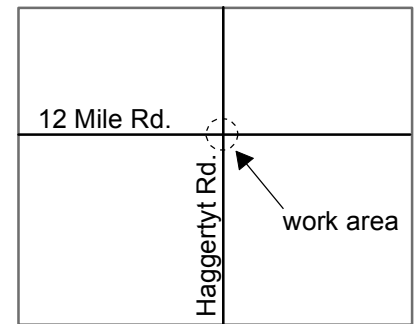
- LIGHTING CONTROL
- DECO POLE
- CABLE POLE
- STREETLIGHT ON POST
- STREETLIGHT ON POLE
- PADMOUNT TRANSFORMER
- SECONDARY PEDESTAL
- 120/240 V LINE
- 4.8 kV LINE
- 13.2 kV LINE
- CABLE IN CONDUIT - DIRECTIONAL BORE
- CABLE IN CONDUIT - TRENCH

JOB NOTES:
 POLES ARE TRUCK ACCESSIBLE.

SHEET 7 OF 9

PARENT WORK ORDER: 52235818
 DRAWING SIZE: 11" x 17" - ANSI B

		DTE Electric - Distribution Engineering and Planning					
Service Planner		Work Order Description					
Mira, Christopher		NBUS-NovI 2019 OH Ph III Intersection Lighting-NovI					
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC	
586.783.1969	52259542	52259544	52259554				
Supervisor	Circuit #1		Circuit #2		PH	SCMAT	
Brian R Kinnick	HAGER9487					52259553	
Phone	Service Center	Worksite City	Worksite Twp		County		
734.397.4024	WWS	NOVI			Oakland		
Planning Engineer	JU Work to be Performed		JU		RSD		
	NONE						
Phone	JU Company	Contact	Email		Phone		
	JU Company	Contact	Email		Phone		
	CUE Number	Ver	Plot Date	Scale	Town	Range	
	855802	1	3/1/2019	NONE			
					Section	Qtr	



POST CODE 070

HAGGERTY RD.

12 MILE RD.

38 IN: POST CODE 070 - BLACK
 IN: FOUNDATION CRUSHED STONE
 IN: MULTIPLE LED 136 LGC COBRA - BLACK
 IN: UG PCLL
 GLN: 241870-364702
 L136 - AFZ905 - 9000 NOVI - O310 - *703

IN: DET 984 #2AL - LIGHTING

IN: #2AL x 2, #4AL x 1
 IN: 2" HDPE CONDUIT

39 IN: POST CODE 070 - BLACK
 IN: FOUNDATION CRUSHED STONE
 IN: MULTIPLE LED 136 LGC COBRA - BLACK
 IN: UG PCLL
 GLN: 241892-364542
 L136 - AFZ906 - 9000 NOVI - O310 - *705

JOB NOTES:
 SITE IS TRUCK ACCESSIBLE.
 POST LOCATIONS ARE STAKED / PAINTED.
 OAKLAND COUNTY PERMIT REQUIRED.

SHEET 10 OF 11

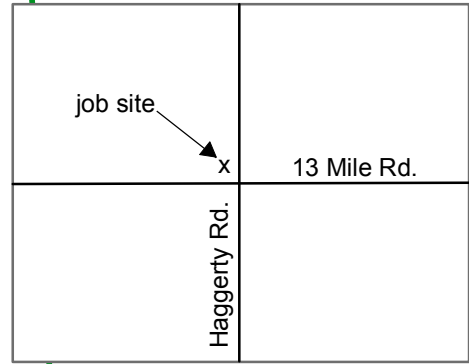
PARENT WORK ORDER: 52235810
 DRAWING SIZE: 11" x 17" - ANSI B

LEGEND	
	LIGHTING CONTROL
	DECO POLE
	CABLE POLE
	STREETLIGHT ON POST
	STREETLIGHT ON POLE
	PADMOUNT TRANSFORMER
	SECONDARY PEDESTAL
	120/240 V LINE
	4.8 kV LINE
	13.2 kV LINE
	CABLE IN CONDUIT
	DIRECTIONAL BORE
	CABLE IN CONDUIT
	TRENCH

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 UG Ph III Intersection Lighting-NovI							
Phone	586.783.1969	Work Order #	52259500	GIS-DSN	52259524	COH	CUL	52259534	PLC
Supervisor	Brian R Kinnick	Service Center	WWS	Worksite City	FARMINGTON HILLS	Circuit #1	QUAKR9230	Circuit #2	SCMAT
Phone	734.397.4024	Worksite Twp		County	Oakland	JU Work to be Performed	NONE	PH	52259533
Planning Engineer		County		RSD		JU			
Phone		JU Company		Contact		Email		Phone	
		JU Company		Contact		Email		Phone	
		CUE Number	855803	Ver	1	Plot Date	3/2/2019	Scale	NONE
		Town		Range		Section		Qtr	

MISS DIG:

82' +/- W C/L HAGGERTY
40' +/- N C/L 13 MILE RD.



HAGGERTY RD.

13 MILE RD.

IN: DET 605D

16

POLE DROP



55'

IN: 6A6D SEC - 1 SPAN

IN: 40 4 PINE
IN: SSS-DET 282
IN: MULTIPLE LED 136 LGC COBRA - GRAY
IN: PCLL
IN: S48 SUPPORT
IN: DET 23206A
GLN: 241606-369919
L136 - AFZ884 - 9000 NOVI - O310 - *701

15

JOB NOTES:

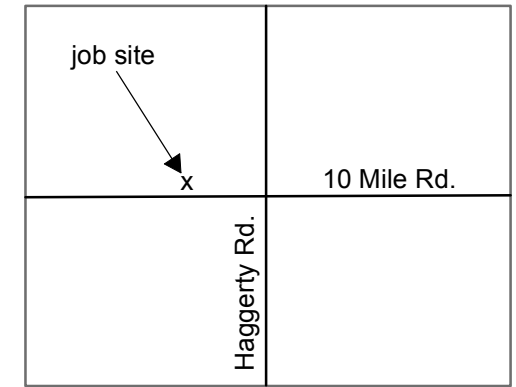
SITE IS TRUCK ACCESSIBLE.
OAKLAND COUNTY PERMIT REQ'D.

PARENT WORK ORDER: 52235818
DRAWING SIZE: 8 1/2" x 11" - ANSIA

SHEET 8 OF 9

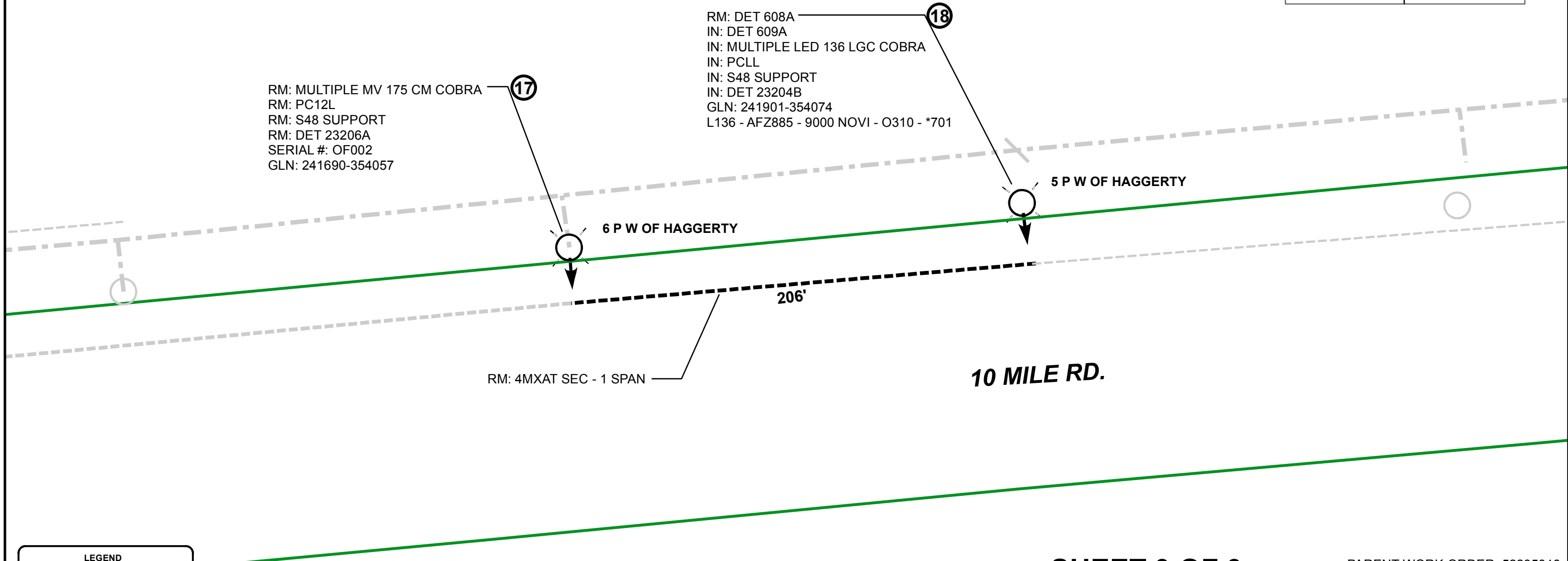
LEGEND	
	LIGHTING CONTROL
	DECO POLE
	CABLE POLE
	STREETLIGHT ON POST
	STREETLIGHT ON POLE
	PADMOUNT TRANSFORMER
	SECONDARY PEDESTAL
	120/240 V LINE
	4.8 kV LINE
	13.2 kV LINE
	CABLE IN CONDUIT
	- DIRECTIONAL BORE
	CABLE IN CONDUIT
	- TRENCH

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 OH Ph III Intersection Lighting-NovI							
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC			
586.783.1969	52259542	52259544	52259554						
Supervisor	Circuit #1		Circuit #2			PH	SCMAT		
	QUAKR9230					52259551	52259553		
Brian R Kinnick	Service Center	Worksite City		Worksite Twp			County		
	WWS	FARMINGTON HILLS					Oakland		
Phone	JU Work to be Performed		JU			RSD			
734.397.4024	NONE								
Planning Engineer	JU Company		Contact	Email		Phone			
	JU Company		Contact	Email		Phone			
Phone	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr	
	855802	1	3/1/2019	NONE					



RM: MULTIPLE MV 175 CM COBRA
 RM: PC12L
 RM: S48 SUPPORT
 RM: DET 23206A
 SERIAL #: OF002
 GLN: 241690-354057

RM: DET 608A
 IN: DET 609A
 IN: MULTIPLE LED 136 LGC COBRA
 IN: PCLL
 IN: S48 SUPPORT
 IN: DET 23204B
 GLN: 241901-354074
 L136 - AFZ885 - 9000 NOVI - O310 - *701



RM: 4MXAT SEC - 1 SPAN

206'

10 MILE RD.

JOB NOTES:

POLES ARE TRUCK ACCESSIBLE.

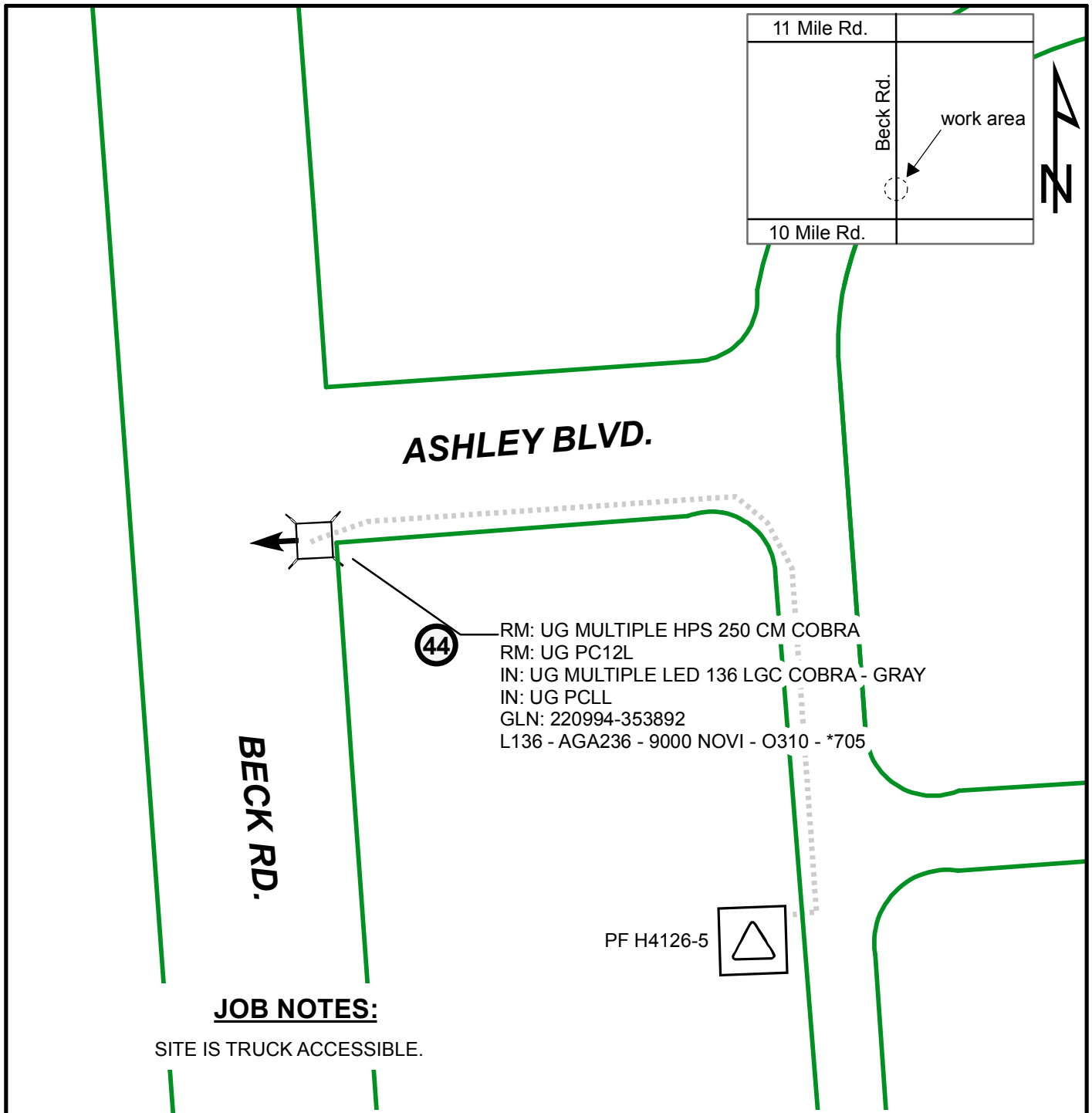
LEGEND

- LIGHTING CONTROL
- DECO POLE
- CABLE POLE
- STREETLIGHT ON POST
- STREETLIGHT ON POLE
- PADMOUNT TRANSFORMER
- SECONDARY PEDESTAL
- 120/240 V LINE
- 4.8 kV LINE
- 13.2 kV LINE
- CABLE IN CONDUIT - DIRECTIONAL BORE
- CABLE IN CONDUIT - TRENCH

SHEET 9 OF 9

PARENT WORK ORDER: 52235818
 DRAWING SIZE: 11" x 17" - ANSI B

DTE Energy		DTE Electric - Distribution Engineering and Planning					
Service Planner	Work Order Description						
Mira, Christopher	NBUS-NovI 2019 OH Ph III Intersection Lighting-NovI						
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC	
586.783.1969	52259542	52259544	52259554				
Supervisor	Circuit #1		Circuit #2		PH	SCMAT	
Brian R Kinnick	SNET8237					52259553	
Phone	Service Center	Worksite City	Worksite Twp		County		
734.397.4024	WWS	NOVI			Oakland		
Planning Engineer	JU Work to be Performed		JU		RSD		
	NONE						
Phone	JU Company	Contact	Email		Phone		
	JU Company	Contact	Email		Phone		
	CUE Number	Ver	Plot Date	Scale	Town	Range	
	855802	1	3/1/2019	NONE			
			Section	Qtr			



JOB NOTES:

SITE IS TRUCK ACCESSIBLE.

PARENT WORK ORDER: 52235810
 DRAWING SIZE: 8½" x 11" - ANSI A

SHEET 11 OF 11

LEGEND	
	LIGHTING CONTROL
	DECO POLE
	CABLE POLE
	STREETLIGHT ON POST
	STREETLIGHT ON POLE
	PADMOUNT TRANSFORMER
	SECONDARY PEDESTAL
	120/240 V LINE
	4.8 kV LINE
	13.2 kV LINE
	CABLE IN CONDUIT - DIRECTIONAL BORE
	CABLE IN CONDUIT - TRENCH

DTE Energy									
DTE Electric - Distribution Engineering and Planning									
Service Planner		Work Order Description							
Mira, Christopher		NBUS-NovI 2019 UG Ph III Intersection Lighting-NovI							
Phone	Work Order #	GIS-DSN	COH	CUL	CUG	PLC			
586.783.1969	52259500	52259524		52259534					
Supervisor	TAHOE9134		Circuit #1	Circuit #2	PH	SCMAT			
Brian R Kinnick	Service Center	Worksite City	Worksite Twp	County					
734.397.4024	WWS	NOVI		Oakland					
Phone	JU Work to be Performed		JU	RSD					
734.397.4024	NONE								
Planning Engineer	JU Company	Contact	Email	Phone					
	JU Company	Contact	Email	Phone					
Phone	CUE Number	Ver	Plot Date	Scale	Town	Range	Section	Qtr	
	855803	1	3/2/2019	NONE					