



**MICHIGAN DEPARTMENT OF TRANSPORTATION
COST AGREEMENT FOR TRAFFIC SIGNAL
CONTROL**

Lansing Region
 District TSC
 County

This Agreement Cancels and Supercedes All Previous Cost Agreements AND is terminable on thirty days notice by any party.

LOCATION Modernization Traffic Signal
 M150 (ROCHESTER) @ HAMLIN RD
 ROCHESTER HILLS Oakland County

Typed Date 05/29/2015
 Work Auth No. 17261
 MDOT Plan No. 63132-01-010
 Installation Date

* Under authority of state law and by virtue of resolutions formally adopted by their respective governing bodies (and herein submitted), the undersigned hereby agree to participate in the cost of installation, maintenance and operation of the above traffic signal control on the basis of the division of costs as determined by the provision of applicable statutes. Details of installation are as shown on attached Michigan Department of Transportation plan dated 10/30/2014. Title to equipment shall remain with the purchasing agency, and the proper credit of salvaged value shall be issued to all parties upon removal of the equipment, in proportion to their share of original cost.

Cancels and Supercedes All Previous Cost Agreements

PARTICIPATION

AGENCY	(BY CONTRACT)	INSTALLATION		MAINTENANCE	
		Per Cent	Estimated Cost	Per Cent	Estimated Annual Cost
Dept of Transportation 63132		0 %		50 %	\$720
ROCHESTER HILLS	City	0 %		50 %	\$720
ROAD COMMISSION FOR OAKLAND CO		0 %		0 %	\$0
Total		0 %		100 %	\$1,440

It is further agreed that the agency responsible for handling bills and/or leased line interconnection billings shall be MDOT

It is further agreed that the agency responsible for performing signal maintenance type D shall be ROAD COMMISSION FOR OAKLAND CO

		For Michigan Department of Transportation use ONLY.
APPROVED: City of ROCHESTER HILLS Date _____ _____ (Title of Authorized Official)	APPROVED: ROAD COMMISSION FOR OAKLAND CO Date _____ By _____ _____ (Title of Authorized Official)	APPROVED: By _____ Engineer of Operations Date _____
APPROVED: Date _____ _____ (Title of Authorized Official)	APPROVED: Date _____ By _____ _____ (Title of Authorized Official)	SIGNED: MICHIGAN DEPARTMENT OF TRANSPORTATION By _____ Deputy Director, Field Services Date _____

* Two copies of resolution must be submitted with this form.

OUTLINE OF POLICY RELATING TO DIVISION OF MAINTENANCE COSTS FOR TRAFFIC SIGNALS

The "Maintenance Cost Agreement for Traffic Signal Controls" between the Michigan Department of Transportation and the county, township, city or village is based on the following policy:

1. The percentage of expense shall be divided on the basis of number of signalized directions. For instance, in the case of a four-legged intersection of which two state trunk line legs are both signalized and only one of the two county legs is signalized, 66-2/3% shall apply to the state trunk line and 33-1/3% to the county road.
2. A divided highway shall be considered the same as a two-way undivided highway.
3. The signalized direction for pedestrians shall be treated in the same manner as signalized vehicular direction.
4. In case of a contract municipality, the municipal share of expense shall include percentages for signalized directions on municipal streets, plus the municipal maintenance contract percentage of the share allocated to the signalized directions on state trunk lines.
5. In case of a signal being located at the intersection of two or more state trunk line maintenance sections, the "Trunk Line Share" shall be allocated to that maintenance section which extends in the north direction. If none extends in the north direction, then to the first leg encountered starting from the north and progressing in a clockwise direction.

OUTLINE OF POLICY RELATING TO DIVISION OF MAINTENANCE COSTS FOR ELECTRICAL SCHOOL SIGNS

The "Maintenance Cost Agreement for Traffic Signal Controls" between the Michigan Department of Transportation and the county, township, city or village is based on the following policy:

1. The Michigan Department of Transportation shall pay the entire cost of mechanical and routine maintenance, and the cost of energy billings.

EXPLANATION OF CODE FOR "TYPE OF INSTALLATION"

<u>SAMPLE</u>	1	-	4W	-	3C	-	S	-	A
	1		2		3		4		5

Explanation

1. The number of heads of each particular type of unit.
2. The number of signalized ways in the unit - (4 ways).
3. The number of colors facing in each direction - (3 colors).
4. How signal is supported: S-Span Suspension, M-Mast Arm, B-Bracket, P-Post or pedestal.
5. Solid or adjustable heads: S-Solid, A-Adjustable.

A pedestrian signal on a pedestal is designated by: 1-1W-2C-P-A.

A pedestrian signal on a pole is designated by: 1-1W-2C-B-A.

EXPLANATION OF MDOT PLAN NUMBER

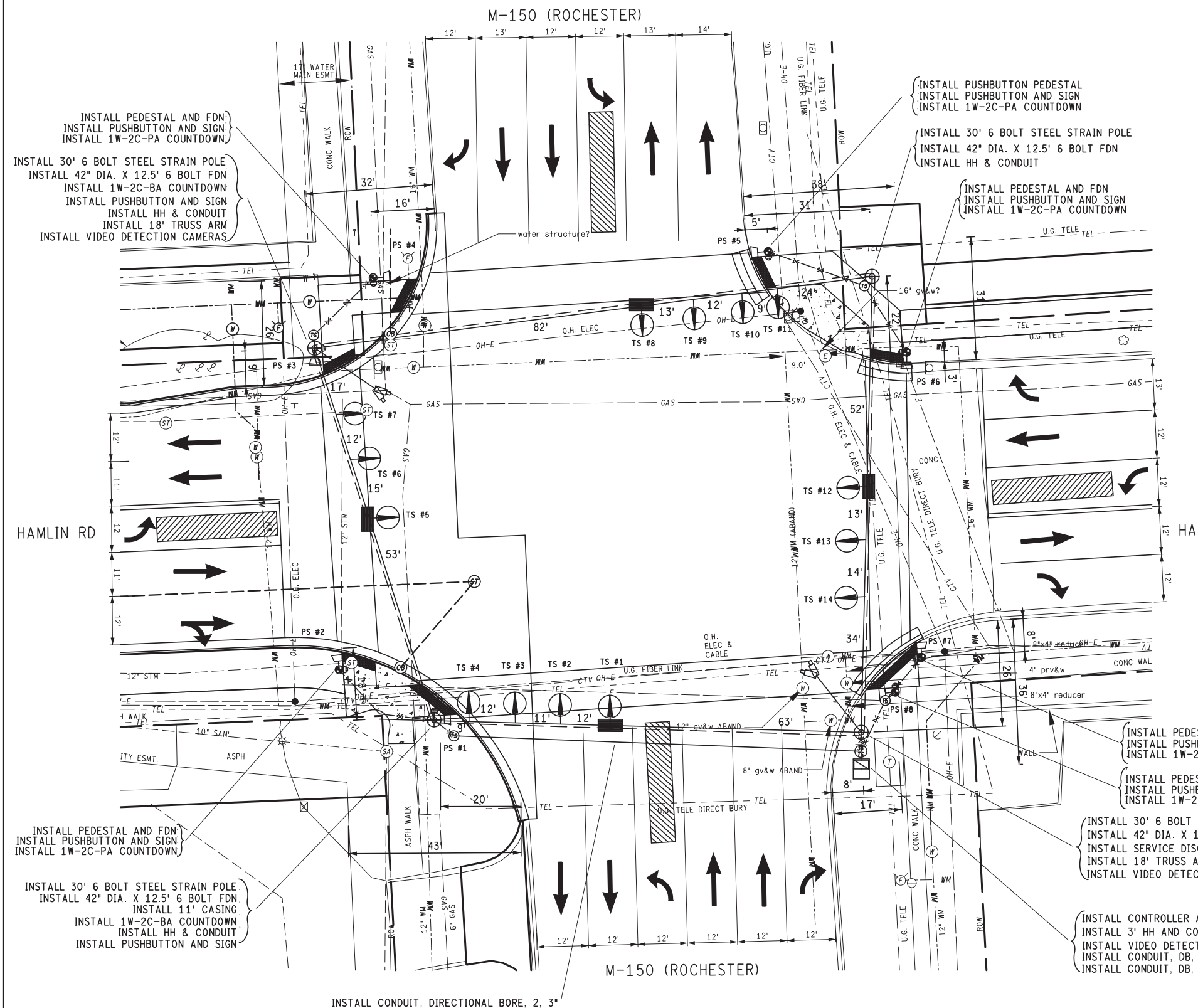
<u>SAMPLE</u>	65032	-	01	-	001
	1		2		3

Explanation

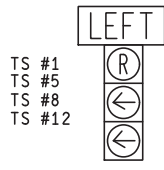
1. Control section number.
2. Type of operation. (01-Stop and Go; 02-Flasher; 03-Keep Right Sign; 04-School Speed Limit; 05-School Flasher ; 06-Street Lighting; 07-Illuminated Sign; 08-Emergency Traffic Signal; 09-Misc.).
3. Assigned number within a control section.



LIST OF MATERIAL		
NO.	ITEM	QUANTITIES
①	Serv Disconnect	1 Ea
②	Controller and Cabinet, Digital Type	1 Ea
③	TS, One Way Span Wire Mtd, Five Sect (LED)	3 Ea
④	Strain Pole, Steel, 6 bolt, 30 foot	4 Ea
⑤	Strain Pole Fdn, 6 Bolt	50 Ft
⑥	Hh, Round, 3 foot Dia.	1 Ea
⑦	Case Sign, One Way, 12 inch by 27 inch, Non-Illuminated	4 Ea
⑧	Span Wire	4 Ea
⑨	TS, One Way Span Wire Mtd (LED)	11 Ea
⑩	Conduit, DB, 1, 1 1/2 inch	85 Ft
⑪	Cable, Sec, 600V, 1, 3/C#6	50 Ft
⑫	Hh, Round	4 Ea
⑬	Pushbutton and Sign	8 Ea
⑭	TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	2 Ea
⑮	TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	6 Ea
⑯	Pedestal, Alum	6 Ea
⑰	Pedestal, Fdn	6 Ea
⑱	Video Traf Detection System	1 Ea
⑲	Video Traf Detection Camera	4 Ea
⑳	Bracket, Truss, With 18 Foot Arm	2 Ea
㉑	Controller Fdn, Base Mount	1 Ea
㉒	Casing	11 Ft
㉓	Conduit, DB, 4, 3 inch	40 Ft
㉔	Conduit, DB, 3, 3 inch	120 Ft
㉕	Conduit, Directional Bore, 2, 3 inch	120 Ft

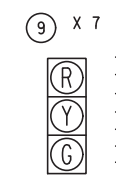


INSTALL 1-WAY
12" X 27"
NON-ILLUMINATED
CASE SIGN
CS#1-4

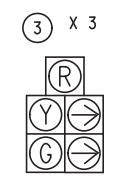


TS #1
TS #5
TS #8
TS #12

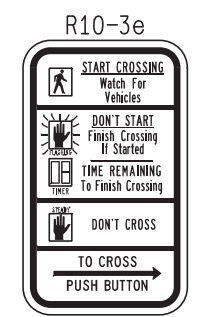
⑦ X 4
⑨ X 4



TS #2
TS #3
TS #6
TS #9
TS #10
TS #13
TS #14



TS #4
TS #7
TS #11



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



FILE: 126455 6313201010 CON001.dgn

DATE: 10/30/14
DESIGN UNIT: SIGNALS
TSC: OAKLAND

CS: 63132
JN: 126455C

TRAFFIC SIGNAL INSTALL SHEET
M-150 (ROCHESTER) AT HAMLIN RD
ROCHESTER HILLS, OAKLAND COUNTY

SIGNALS	
OPENINGS:	57
CYCLIC WATTS:	662
STEADY WATTS:	0
PLAN:	63132-01-010

DRAWING	SHEET
SIG 006	SECT 1

