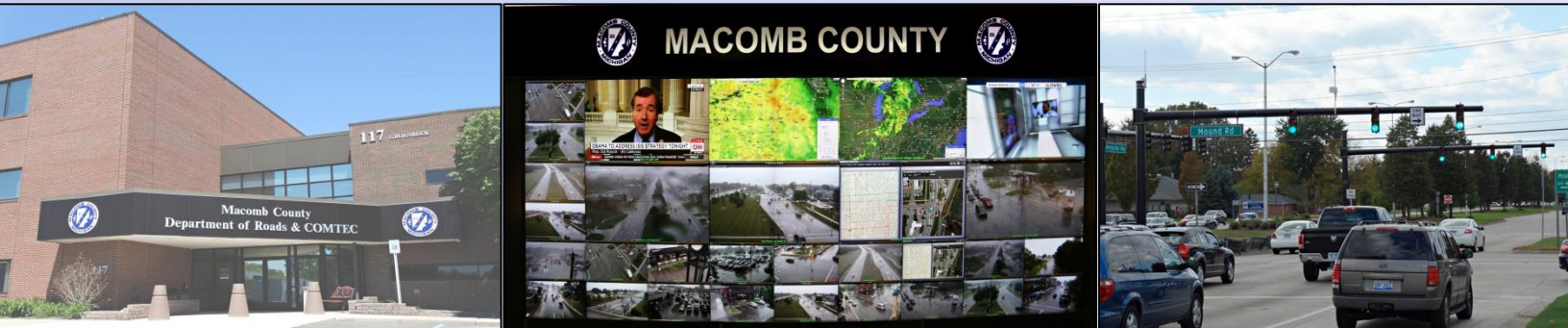


MACOMB COUNTY DEPARTMENT OF ROADS

TRAFFIC OPERATIONS CENTER

"To provide and maintain a reliable real-time traffic operations system, in coordination with county stakeholders, that enables a safe, efficient, and informative travel experience."
- MCDR TOC Mission Statement

PERFORMANCE MEASURES



November 2021

AECOM

WSP

**INTEGRAL
BLUE**



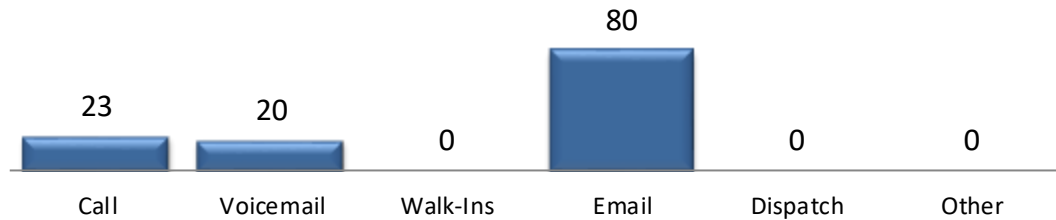
John Abraham, PhD, PE, PTOE
Director of Traffic & Operations
Macomb County Department of Roads
117 S Groesbeck Hwy
Mount Clemens, MI 48043
586-463-8671
JAbraham@RCMCWeb.org

MONTHLY TOC HIGHLIGHT

On Wednesday, November 17th, the Macomb County Department of Road's Traffic Operations Center (TOC) aided *The Mall at Partridge Creek* with coordinating traffic flow for their annual tree lighting event. Every year, the mall anticipates more than 2500 children for the event, in addition to their parents and regular shoppers. This year, through increased communication with the mall authorities, the TOC managed the ingress and egress event traffic without police presence. Furthermore, through real-time traffic monitoring and signal timing changes to twelve pertinent intersections, the TOC helped the egress traffic clear the mall parking lot half an hour earlier than the previous years.

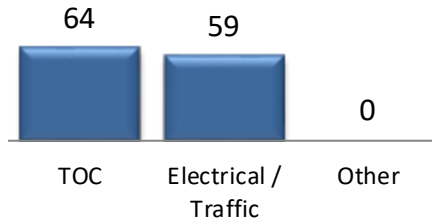
SERVICE REQUESTS

Service Request Source



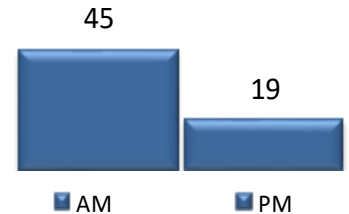
In the month of November, **123** incoming requests regarding traffic signals were received.

Service Request by Dept.

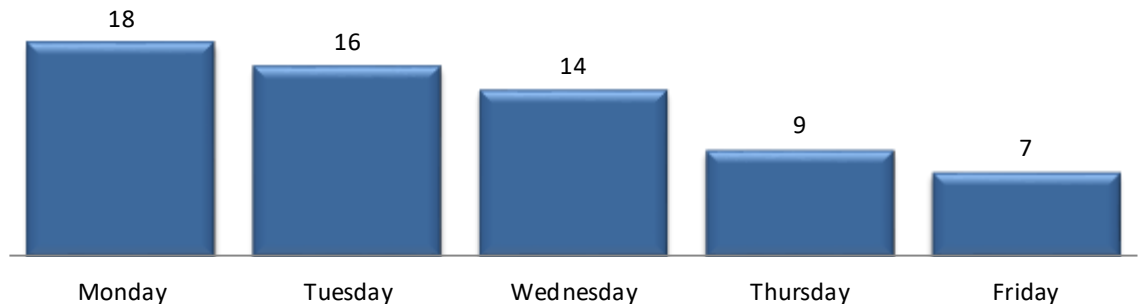


In the month of November, TOC engineers closed **58** service requests within an average of **4** business days.

TOC by Time of Day



Service Request Per Day of Week



TRAFFIC OPERATIONS

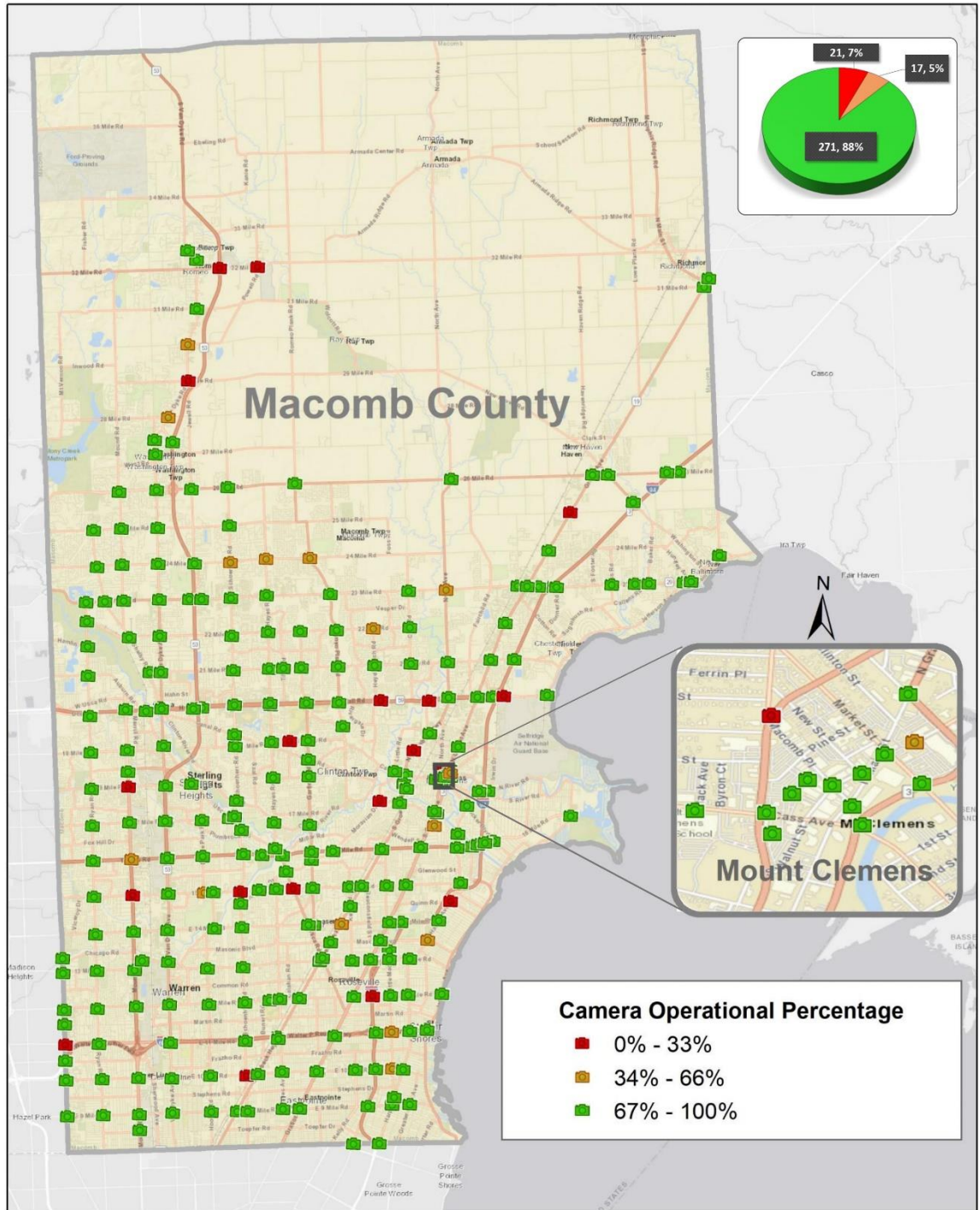
November 2021



CCTV TRAFFIC CAMERA SUMMARY

CAMERA COVERAGE

November 2021



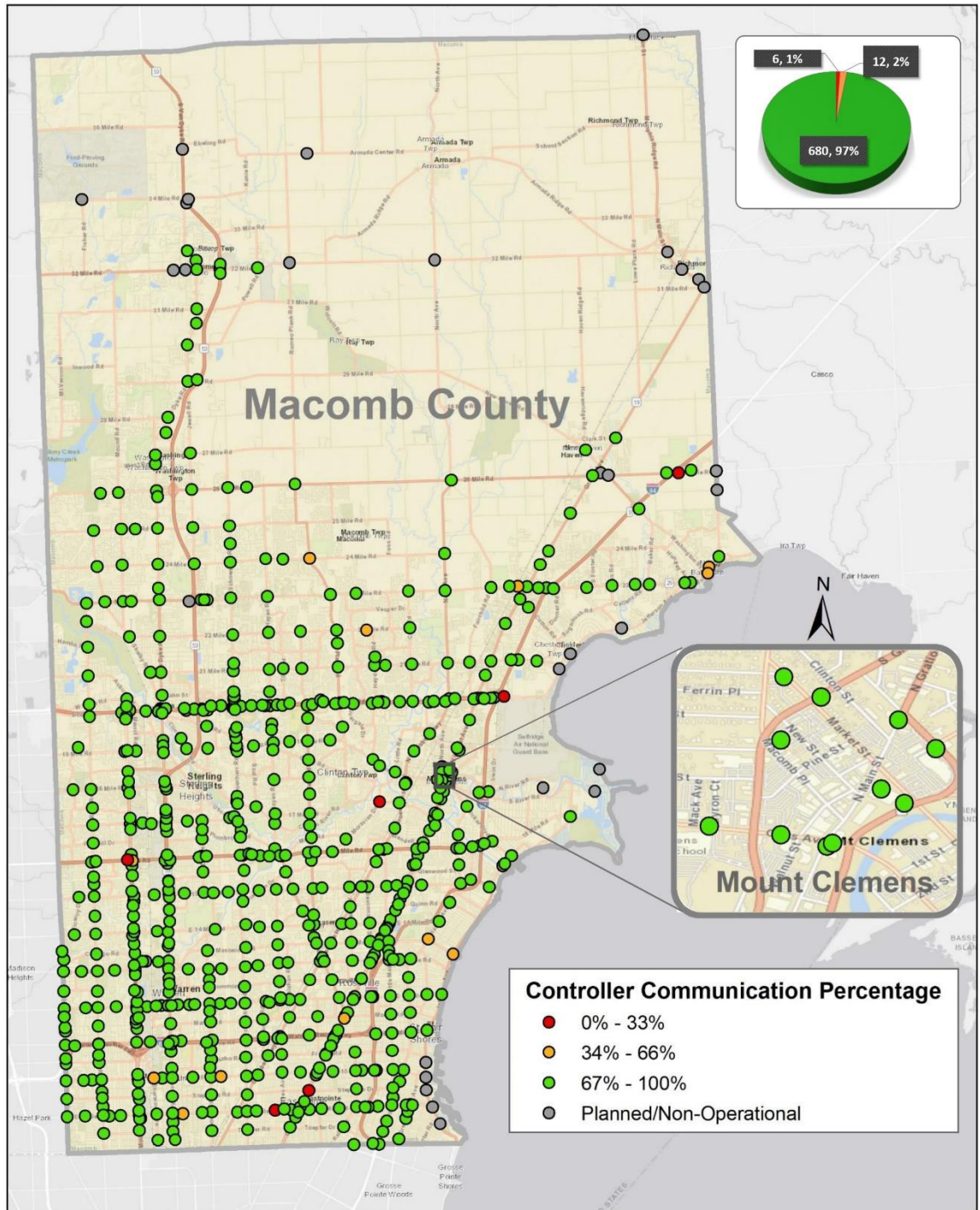
The map above represents the CCTV camera operational percentages for the month of November 2021.



REGIONAL COMMUNICATIONS SUMMARY

ITS MAINTENANCE

November 2021



The map above represents the communication availability percentages of Traffic Signal Controllers for the month of November 2021.



HIGH IMPACT CORRIDOR COMMUNICATIONS AVAILABILITY

Corridor	Current Month	Previous Month	Change
9 Mile	94%	95%	-1%
14 Mile	97%	99%	-2%
15 Mile	98%	99%	-1%
Metro Parkway	99%	99%	0%
Hall Rd(M-59)	99%	99%	0%
Dequindre	97%	87%	10%
Ryan	98%	97%	1%
Mound	94%	99%	-5%
Hoover	98%	99%	-1%
Schoenherr	97%	98%	-1%
Hayes	99%	99%	0%
Gratiot(M-3)	97%	95%	2%
Harper	91%	99%	-8%

The table above represents a one-time monthly snapshot of communications along major corridors in Macomb County.

FIELD WORK

90 sites visited by the IT/ITS Maintenance Technicians. 9 sites visited by the combined efforts of the IT/ITS Maintenance and MCDR Electrical crews.

SIGNAL TIMING CHANGES

Traffic signal changes performed by TOC engineers

Time of Signal change	Loc #	Intersection	Reason for signal change
11/01/2021 16:46	23 Mile Road/Van Dyke	324	Construction
11/04/2021 12:08	Hamlin/Ryan	963	Construction
11/04/2021 12:08	Ryan/22 Mile Road	709	Congestion
11/04/2021 12:08	Napi Drive/23 Mile Road	58	Service Request
11/04/2021 12:08	Schoenherr SB/Crossover North of Hall Road (M-59)	784	Incident
11/04/2021 12:08	Hall Road EB (M-59)/Crossover West of Schoenherr	766	Incident
11/04/2021 12:08	Hall Road (M-59)/Schoenherr	207	Incident
11/04/2021 12:08	Ryan/22 Mile Road	709	Congestion
11/04/2021 12:08	Gratiot (M-3)/Hall Road (M-59)	162	Incident
11/04/2021 12:08	Gratiot (M-3)/21 Mile Road	185	Incident



SIGNAL TIMING CHANGES CONTINUED

MAINTENANCE

November 2021

Time of Signal change	Loc #	Intersection	Reason for signal change
11/04/2021 12:08	Gratiot (M-3)/23 Mile Road	186	Incident
11/04/2021 12:08	Hamlin/Ryan	963	Service Request
11/04/2021 12:08	Auburn/Ryan	49	Service Request
11/04/2021 12:08	Gratiot (M-3)/Hall Road (M-59)	162	Incident
11/04/2021 12:08	Gratiot (M-3)/21 Mile Road	185	Incident
11/04/2021 16:55	Metropolitan Parkway/Union Lake	981	Incident
11/05/2021 8:16	15 Mile Road/Groesbeck (M-97)	134	Incident
11/11/2021 12:02	Metropolitan Parkway EB/Crossover 340' W of Schoenherr	638	Service Request
11/11/2021 12:02	Metropolitan Parkway/Schoenherr	268	Service Request
11/11/2021 12:02	Metropolitan Parkway WB/Crossover 340' E of Schoenherr	639	Service Request
11/11/2021 12:02	Metropolitan Parkway EB/1200' W. of Freedom Hill Cty Park	907	Service Request
11/11/2021 12:02	Metropolitan Parkway EB/Crossover 430' W of Utica Road	640	Service Request
11/11/2021 12:02	Metropolitan Parkway/Utica Road	269	Service Request
11/11/2021 12:02	Metropolitan Parkway WB/Crossover 430' E of Utica Road	641	Service Request
11/11/2021 12:02	Romeo Plank/21 Mile Road	466	Service Request
11/11/2021 12:30	Auburn/Ryan	49	Service Request
11/11/2021 12:30	Hamlin/Ryan	963	Service Request
11/11/2021 12:30	Ryan/22 Mile Road	709	Service Request
11/12/2021 13:29	Hamlin/Ryan	963	Service Request
11/12/2021 13:29	Ryan/22 Mile Road	709	Service Request
11/12/2021 14:06	Garfield/Hall Road (M-59)	156	Incident
11/12/2021 14:06	Hall Road EB (M-59)/Crossover West of Garfield	760	Incident
11/16/2021 17:28	15 Mile Road/Van Dyke	139	Incident
11/17/2021 16:36	Hall Road WB (M-59)/Crossover West of Eastbrook	769	Incident
11/17/2021 16:36	Ryan/22 Mile Road	709	Service Request
11/17/2021 20:15	Hall Road EB (M-59)/Crossover West of Garfield	760	Special Event
11/17/2021 20:15	Garfield/Hall Road (M-59)	156	Special Event
11/17/2021 20:15	Hall Road EB (M-59)/640' W. of Ronnen Dr.	971	Special Event
11/17/2021 20:15	Hall Road WB (M-59)/Crossover East of Garfield	761	Special Event
11/17/2021 20:15	Hall Road WB (M-59)/700' E. of Ronnen Dr.	972	Special Event
11/17/2021 20:15	Hall Road EB (M-59)/Crossover West of Romeo Plank	762	Special Event
11/17/2021 20:15	Hall Road (M-59)/Romeo Plank	211	Special Event
11/17/2021 20:15	Hall Road WB (M-59)/Crossover East of Romeo Plank	763	Special Event
11/17/2021 20:15	Hall Road (M-59)/Rivergate	613	Special Event
11/17/2021 20:15	Hall Road EB (M-59)/Crossover West of Heydenreich	802	Special Event
11/17/2021 20:15	Hall Road EB (M-59)/Heydenreich	980	Special Event
11/17/2021 20:15	Hall Road EB (M-59)/Crossover West of Chateau Thiery	804	Special Event
11/19/2021 15:27	Baseline/Old 8 Mile Road/I-94 WB Off Ramp	556	Incident
11/19/2021 15:28	I-94 Southbound/Nine Mile Road	359	Incident
11/19/2021 15:28	I-94 Northbound/Nine Mile Road	355	Incident
11/19/2021 15:28	I-94 Southbound/10 Mile Road	360	Incident
11/19/2021 15:28	I-94 Northbound/10 Mile Road	356	Incident
11/22/2021 20:08	Metropolitan Parkway EB/Crossover 535' W of Groesbeck	646	Incident
11/22/2021 20:08	Groesbeck (M-97)/Metropolitan Parkway	198	Incident



SIGNAL TIMING CHANGES CONTINUED

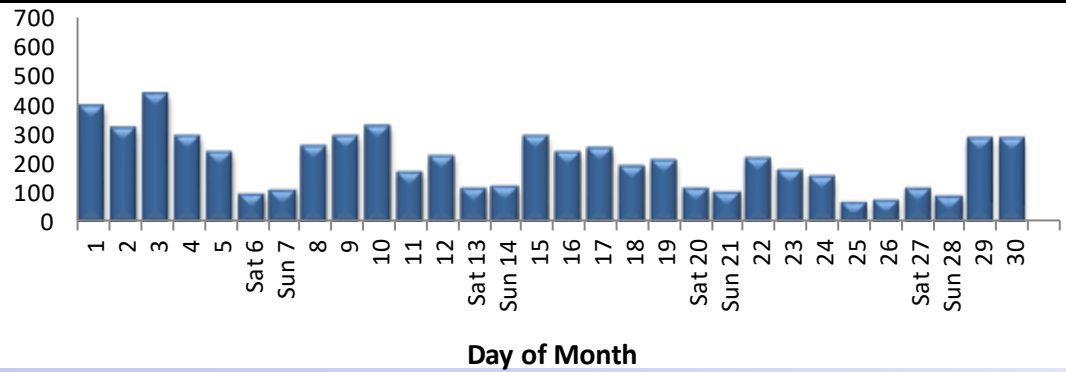
MAINTENANCE

November 2021

Time of Signal change	Loc #	Intersection	Reason for signal change
11/22/2021 20:08	Metropolitan Parkway WB/Crossover 500' E of Groesbeck	618	Incident
11/22/2021 20:09	Kelly/13 Mile Road	250	Traffic Study
11/23/2021 7:33	29 Mile Road/Van Dyke	455	Incident
11/23/2021 12:32	Gratiot NB (M-3)/Crossover 366' S of 12 Mile Road	553	Service Request
11/23/2021 12:32	Clinton River Road/Garfield	37	Traffic Study
11/23/2021 12:33	I-94 Northbound/10 Mile Road	356	Incident
11/23/2021 12:33	I-94 Southbound/Nine Mile Road	359	Incident
11/23/2021 12:33	I-94 Southbound/10 Mile Road	360	Incident
11/23/2021 15:19	Hayes/23 Mile Road	653	Incident
11/23/2021 15:28	18 Mile Road/Ryan	381	Incident
11/23/2021 15:53	Hamlin/Ryan	963	Service Request
11/23/2021 16:34	Hall Road EB (M-59)/Eastbrook Drive	770	Incident
11/23/2021 16:45	Gratiot (M-3)/22 Mile Road	27	Service Request
11/24/2021 17:24	Kelly/13 Mile Road	250	Service Request
11/24/2021 17:27	Tilch/21 Mile Road	718	Construction
11/24/2021 17:27	Garfield/21 Mile Road	789	Construction
11/24/2021 17:27	Romeo Plank/21 Mile Road	466	Construction
11/24/2021 17:27	Heydenreich/21 Mile Road	276	Construction
11/24/2021 17:27	LaRoche (Dakota High School)/21 Mile Road	834	Construction
11/24/2021 17:27	Card/21 Mile Road	178	Construction
11/24/2021 17:28	North Avenue/21 Mile Road	482	Construction
11/24/2021 17:28	Fairchild/21 Mile Road	387	Construction
11/24/2021 17:28	Gratiot (M-3)/21 Mile Road	185	Construction
11/24/2021 17:28	Hall Road EB (M-59)/Crossover West of Romeo Plank	762	Construction
11/24/2021 17:28	Hall Road (M-59)/Romeo Plank	211	Construction
11/24/2021 17:28	Hall Road WB (M-59)/Crossover East of Romeo Plank	763	Construction
11/24/2021 17:28	Hall Road (M-59)/Rivergate	613	Construction
11/24/2021 17:28	Hall Road EB (M-59)/Crossover West of Heydenreich	802	Construction
11/24/2021 17:28	Hall Road EB (M-59)/Heydenreich	980	Construction
11/24/2021 17:28	Hall Road WB (M-59)/Heydenreich	979	Construction
11/24/2021 17:28	Hall Road WB (M-59)/Crossover East of Heydenreich	803	Construction
11/24/2021 17:28	Hall Road EB (M-59)/Crossover West of Chateau Thiery	804	Construction
11/24/2021 17:28	Hall Road WB (M-59)/Crossover East of Chateau Thiery	805	Construction
11/24/2021 17:28	Card/Hall Road WB (M-59)	896	Construction
11/24/2021 17:29	Hall Road (M-59)/Elizabeth	632	Construction
11/24/2021 17:29	Hall Road EB (M-59)/Crossover West of Groesbeck	808	Construction
11/24/2021 17:29	Groesbeck (M-97)/Hall Road (M-59)	193	Construction
11/24/2021 17:29	Hall Road WB (M-59)/Crossover East of Groesbeck	809	Construction
11/29/2021 12:41	18 Mile Road/Hayes	625	Incident
11/29/2021 16:11	15 Mile Road/Hayes	827	Incident
11/30/2021 14:56	I-696 Service Drive (Westbound/North Side)	440	Service Request
11/30/2021 14:56	Hamlin/Ryan	963	Service Request
11/30/2021 17:40	Hayes/24 Mile Road	511	Construction
11/30/2021 17:40	Romeo Plank/24 Mile Road	719	Construction

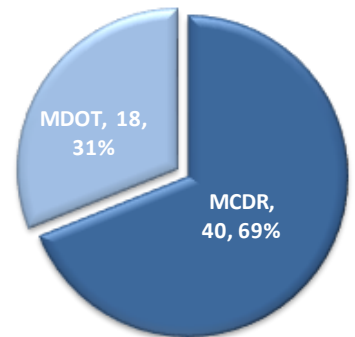
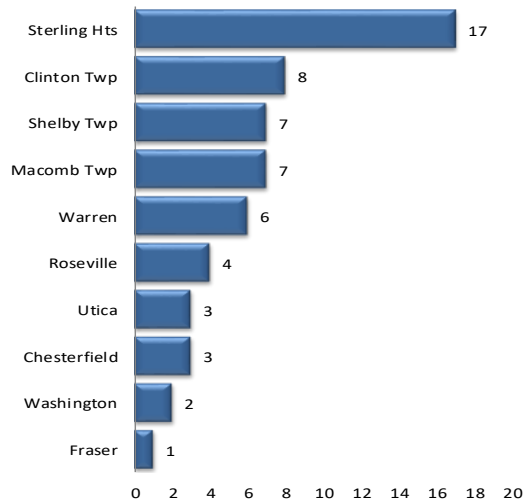


MCDR WEBSITE HITS



A total of **6,253** hits were accrued at <http://roads.macombgov.org/>.

SERVICE REQUESTS PER MUNICIPALITY

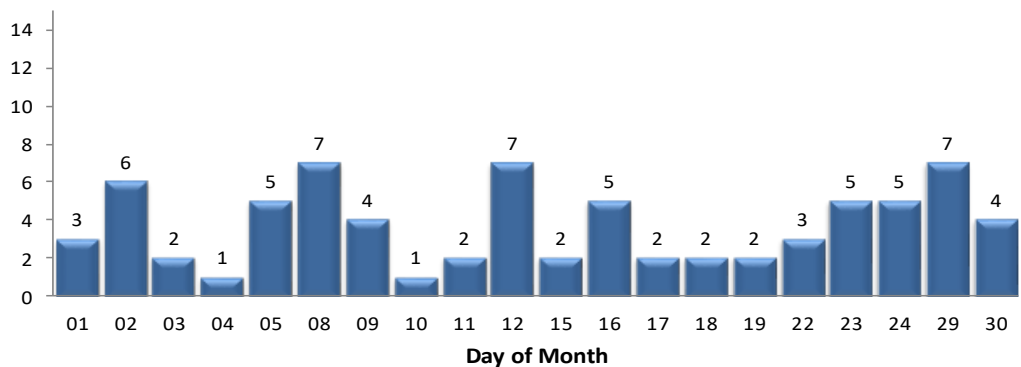


The chart to the left shows how many requests were created per traffic signal location under municipality jurisdiction. The chart to the right shows breakdown of the requests created under MDOT or MCDR / local municipality jurisdiction.

GOVDELIVERY NOTIFICATIONS

In the month of November, the TOC sent out **75** GovDelivery notifications, and increased the number of recipients from **3,003** to **3,101** receiving notifications.

Note: The chart below only shows data for the days GovDelivery notifications were sent from the TOC.



GovDelivery is a tool to notify Macomb County motorists of any incident blocking at least one lane of traffic or causing traffic issues. The notifications are sent after an incident has been verified.

[Sign up for incident notifications on weekdays from 6 a.m. to 6 p.m. causing lane or roadway closures on major Macomb County arterials.](#)

