

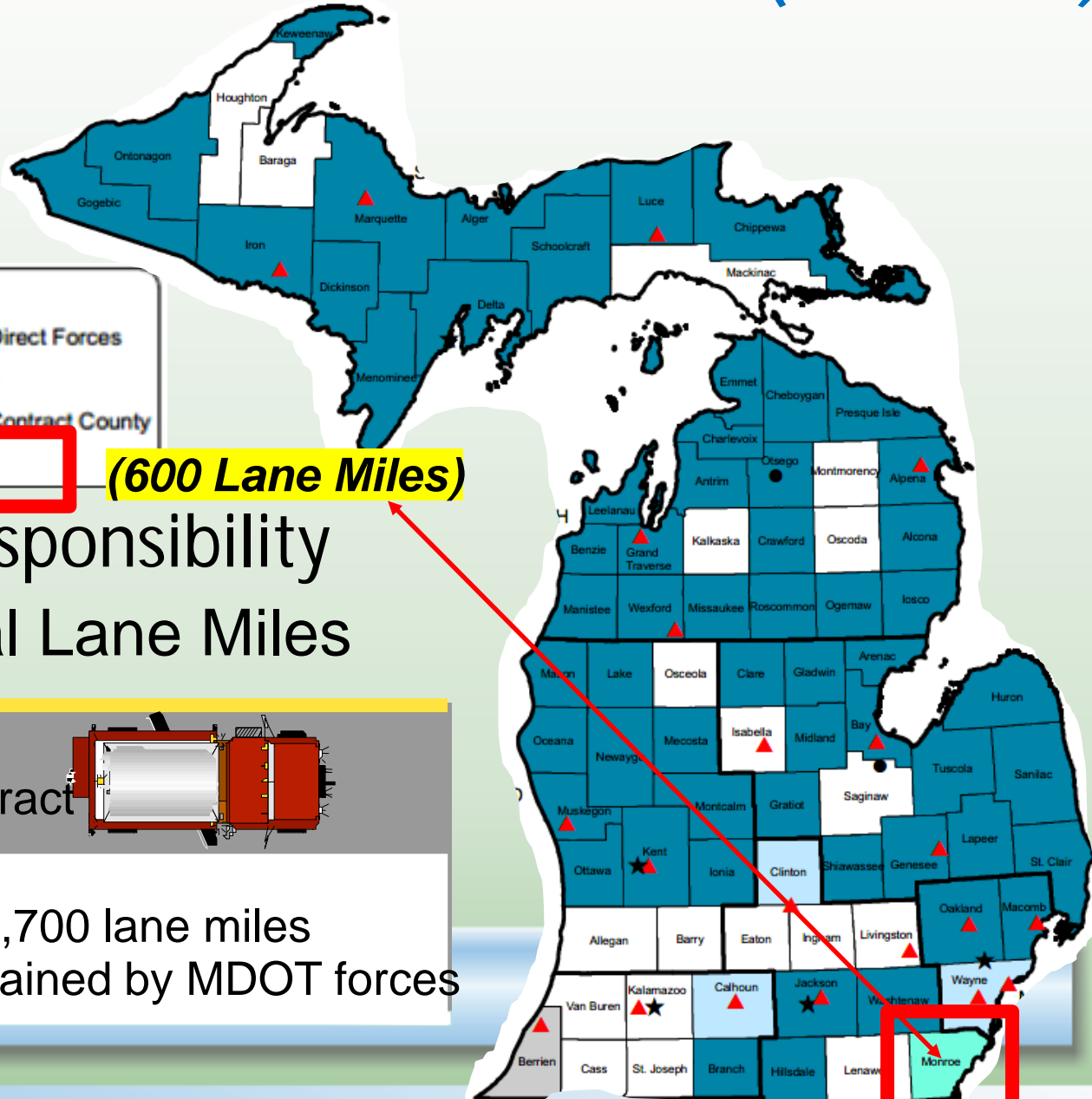
Michigan DOT Flexible Asset Maintenance Services (FAMS) Contract

2021 NOCoE Innovative Procurement and Contracting Peer Exchange
Virtual
May 14th, 2021

Justin Droste PE
Region Support Engineer
Who?... TSMO Maintenance Services Section



MDOT Maintenance Providers *(Where?)*



▲ TSC	□ Direct Forces
● Region/TSC	■ Predominantly Direct Forces
★ Region Office	■ Contract County
	■ Predominantly Contract County
	■ Private Contract

(600 Lane Miles)

Trunkline Responsibility
32,000 Total Lane Miles

24,300 lane miles maintained under contract

7,700 lane miles maintained by MDOT forces



Why? Existing Local Agency Service Provider Opted out of their Contract. This Provided Opportunity to *(What?)*:

1. Focus on the Outcomes of the maintenance services instead of the processes in performing them.
2. Tie into the MDOT Performance Based Maintenance Metrics (est. 2013): Michigan Maintenance Rating System (MiMRS)
3. Incorporate other Maintenance Best Practices and Technologies into Performance.

Timeline *(When?)*:

- Sept 2018: County provided formal notice to end Services 10/1/2019
- March 2019: Decision made to proceed with performance based maintenance contract.
- October 1st, 2019: FAMS Contractor in place (Ferrovial) and performing maintenance work.
(Three Year Contract with three one-year options)

Performance Based Maintenance

Michigan
Maintenance Rating
System Handbook



PBM Data since 2013:

1. 22 asset/maintenance classifications
2. Pass/Fail representative segments
3. Statewide ratings twice per year
4. Contract ratings quarterly and tied to performance penalties.



Cracking Examples



This pavement has significant cracking, but has been patched and should meet the performance measure.



This pavement has a wide crack which is improperly patched.



How? MiMRS

Monroe County Results Summer 2020					Penalty	
	Pass	Fail	% Pass	Bench Mark	(0 - 5% below Performance Benchmark)	Each 10% below
Flexible – Cracking	32	4	89%	60%	NA	NA
Flexible – Patching	31	5	86%	70%	1% of Non-Winter LS	1.5%
Flexible – Potholes	31	4	89%	65%	2% of Non-Winter LS	3.0%
Rigid – Cracking	16	6	73%	50%	NA	NA
Rigid – Patching	18	4	82%	50%	1% of Non-Winter LS	1.5%
Rigid – Potholes	19	3	86%	45%	1% of Non-Winter LS	1.5%
Shoulders	27	21	56%	25%	2% of Non-Winter LS	3.0%
Debris	45	13	78%	90%	1% of Non-Winter LS	NA
Sweeping	54	4	93%	70%	NA	NA

Monroe County Results Summer 2020				Penalty		
	Pass	Fail	% Pass	Bench Mark	(0 - 5% below Performance Benchmark)	Each 10% below
Guardrail	12	0	100%	90%	2% of Non-Winter LS	3.0%
Cable Barriers	15	0	100%	80%	1% of Non-Winter LS	NA
Impact Attenuator	0	0		90%	1% of Non-Winter LS	NA
Signs	24	1	96%	90%	1% of Non-Winter LS	NA
Delineators	35	17	67%	50%	0.5% of Non-Winter LS	1.5%
Culverts	8	2	80%	35%	2% of Non-Winter LS	3%
Litter	52	6	90%	75%	1% of Non-Winter LS	NA
Animal Carcasses	58	0	100%	75%	1% of Non-Winter LS	NA

Failure to respond to Priority 1 signs within 24 hours	penalty of \$500 per hour.
Failure to respond to Priority 2 signs within 1 business day	penalty of \$500 per calendar day
Failure to respond to Priority 3 signs within 5 business days	penalty of \$200 per calendar day
Failure to respond to Priority 4 signs within 10 business days	penalty of \$200 per calendar day
Failure to follow MDOT policies and direction regarding work zones for maintenance operations	penalty of \$500.00 per work zone, per hour



Other Performance Penalties:

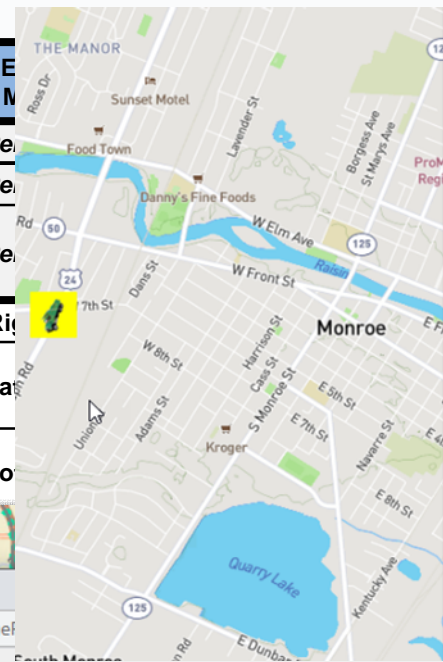
1. Timeliness
2. Following MDOT policies
3. Use of promoted Technologies
4. Level of Service

AVL/MDSS Reporting requirements	\$100 per occurrence of information not being Timely, Accurate and Complete, per day
Work Order - Materials Reporting	\$100 per occurrence of information not being Timely, Accurate and Complete, per day
MDSS Routes	\$100 per missing winter route, per day, during winter season.
Deployment for deicing operations.	\$500 per route, per hour
Deployment for plowing operations	\$500 per route, per hour
Level of Service (Orange and Blue Routes) during event	\$500 per route, per hour deficient
Salt application rates	\$500 per route, per occurrence
Level of service after event	\$200 per route, per hour beyond 8 hours

How Else?

Table 1.2 - 1: FAMS In Scope Activity Guide Index

ACTIVITY CODE	ACTIVITY DESCRIPTION	PAY ITEM
1410	Winter Maintenance	Winter Lump Sum (Activities 1410, 1440, and 1490 are to be included in Winter Lump Sum pay item)
1440	Winter Road Patrol	
1490	Other Winter Maintenance	
1020	Remove Replace Pavement (Fast Set Concrete)	Non-Winter Lump Sum (all Activities Codes)
1030	Patrol Patching	
1042	Pavement Spall & Pothole Repair	



MI-Monroe-99348
south of East Dunbar Rd to Wayne

Mon, Feb 15th 2021
7:49 am EST
Lane: Unspecified

Environment

Air Temp	13 °F
Weather	—
Road Temp	21 °F
Road Condition	—
Speed	24 mph

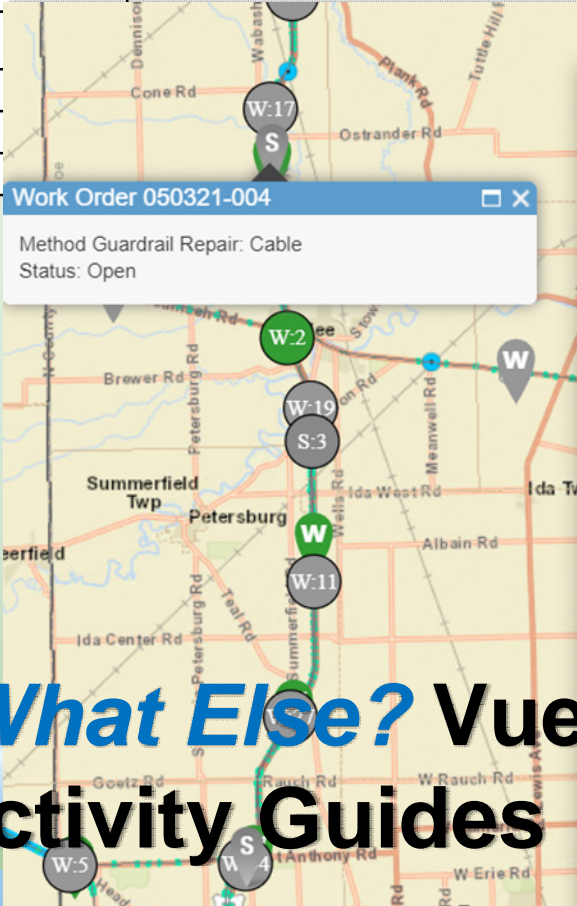
Blade Position

Mount Location	Position
Underbody	Up
Left	Unspecified
Front	Unspecified
Right	Unspecified

Applications

SALT BRINE
0 gallons/in mi
100% brine Sodium Chloride (NaCl)

DRY SALT
450 lbs/in mi
100% dry Sodium Chloride (NaCl)



Work Order 050321-004

Method Guardrail Repair: Cable
Status: Open

Manage Work Orders - Google Chrome

tams.state.mi.us/vueworks/WorkOrders/FindManaged

Filter Status

Form View Assets

ID 050321-004 Logged By Gerald Danforth 05/03/2021 10:22 AM

Type Reactive

Work Category FAMS Monroe County

Activity Monroe 1310 Cable Barrier Repair

Method Guardrail Repair: Cable

Location US-23: 1223504, 20.63 (PR, BMP)

Description Damaged cable rail barrier. NB US-23 @ Milwaukee Rd bridge. PDR

Assigned To Role: FAMS Monroe County Contractor 05/03/2021 10:22 AM

Project Group: Project:

Associate with...

Status Open Priority 1

Begin Date: 05/03/2021 Begin Time: 8:00 AM

End Date: 05/03/2021 End Time: 9:00 AM

Send Email to Notification List on Save

Set Recurring

Form: 1310 Cable Barrier Repair

Region: University TSC: Brighton County: MONROE Route: US-23

SOP

Maintenance Responsibility: Monroe Contractor

What Else? Vueworks, MDSS, Activity Guides

THANKS!

Who?...THE



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Region Support Engineer

MDOT TSMO Division

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