



TRAFFIC TECH TALK #2

Ryan Mayer

Statewide Signing Engineer

Erin Schwark

Statewide Work Zone Operations Engineer

September 21, 2022
12:00-1:00 PM

Overview

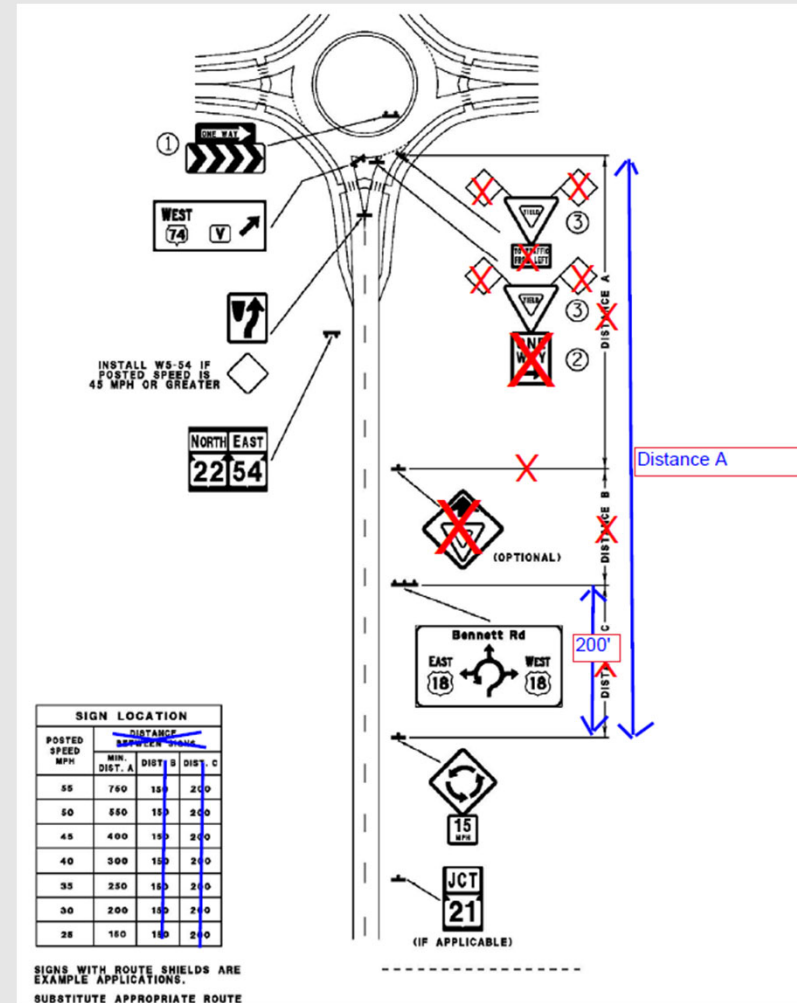
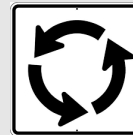
- Roundabout Signing
- Dual Language Signing
- Drilling Shafts for Type 1 Signs
- Sign Details for Plans
- Work Zone Mitigation Policy
- Smart Work Zones



Roundabout Signing

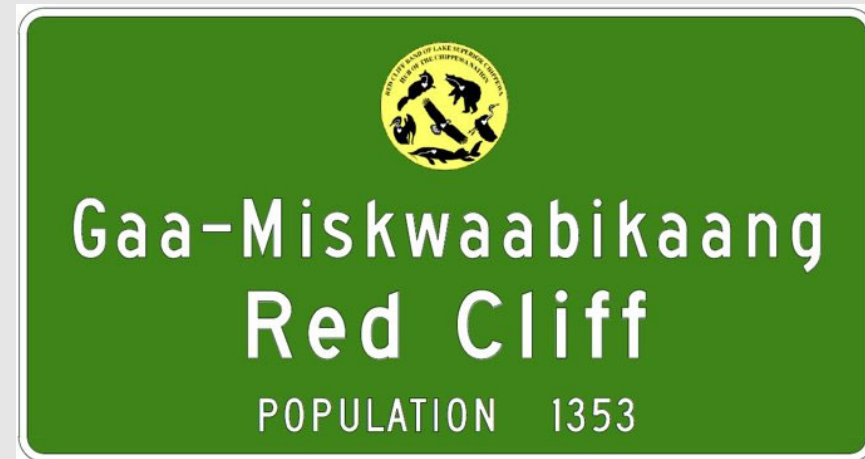
FDM Update (May 2021)

- No longer install automatically
 - Temporary Flags
 - Plaques under yields
 - Yield Aheads
- Added R6-5P for compact RABs



Dual Language Signing

- A sign of respect for tribal sovereignty
- Allowed only at the border of or within tribal lands
 - Boundary signs
 - Body of water signs
- First one in WI installed on Nov. 3rd, 2021



Drilling Shafts for Type I Signs

- The Drilling Shafts pay item must now be used whenever we are installing bases for ground mounted Type I signs
 - In the old spec (636 - Concrete Sign Supports) excavating and backfilling were covered through the concrete masonry bid item, 636.5(2).
 - Under the new spec, 531, this is no longer the case. Under 531.5(2), the concrete masonry item is for placing the concrete and anchor rod assemblies.
 - Only under 531.5(4), the drilling shafts bid item, is the excavating and backfilling covered.



Sign Details for Plans

- Sign details for plans are available from BTO
- Send requests to: dotbtosigndetails@dot.wi.gov
 - Fixed message signs and all special sign details must be done by BTO
 - If you have any questions just check in at the email above
- Jason Henning & Clyde Clark



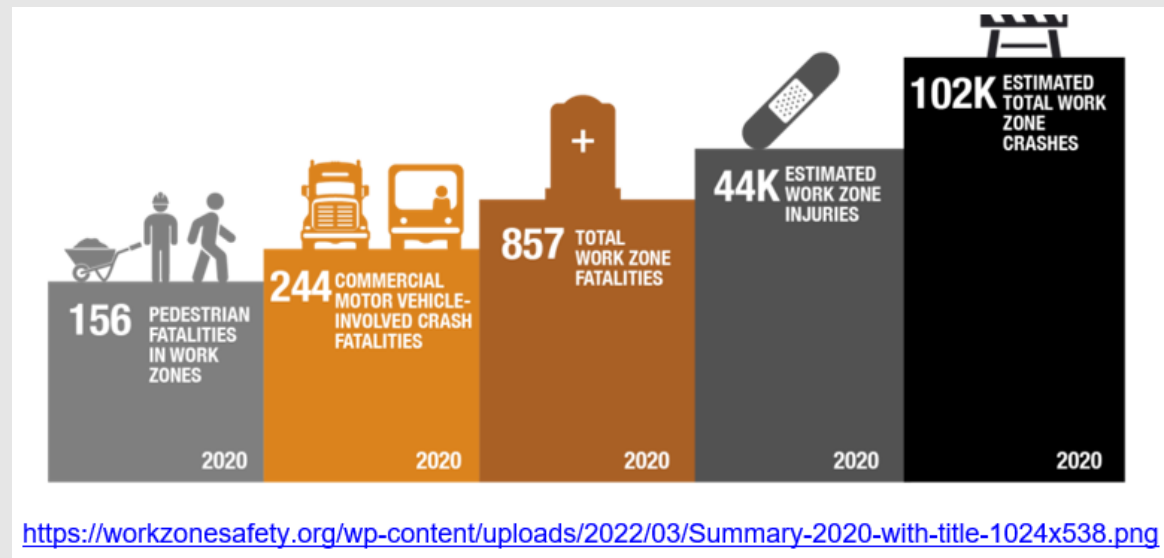
Work Zone Mitigation Policy Updates

- Deleted 11-50-5.7 Mitigation
- Created new FDM Section: 11-50-7
 - Background on Mitigation
 - New and Revised Processes
 - Division of State Patrol
 - Local Agency
- Publication: November 2022 (Effective with 2023 Contracts)



Work Zone Mitigation Background

- Primary Goals of Law Enforcement
 - Speed Limit Enforcement
 - Targeted Presence
 - Incident Clearance



WisDOT Work Zone Mitigation Standard

- Law enforcement mitigation during the morning and evening peak hours, weekend hours for recreational traffic, holiday weekends and special events are considered standard in Wisconsin which is consistent with other states.
- If your project is requesting law enforcement mitigation outside of the standard, the project should follow the “Request for Non-Standard mitigation” for approval.



WisDOT Work Zone Mitigation Non-Standard

- Complete Attachment 5.5
- Include the following detailed information:
 - Staging Plan
 - Traffic Analysis
 - Crash Data
 - If approved, monthly performance measure evaluations on effectiveness of law enforcement



Work Zone Mitigation Project Selection

• Factors to Consider

- Roadway Volume
- Traffic Staging
 - Full Roadway Closures, Rolling Closures, Bi-Directional Traffic
- Capacity Restrictions
 - Expected Queuing in addition to regular recurring delay
 - Expected Queuing
- History of Crashes in the Area

• Examples

- Rolling Closure – contract required
- Projects with significant impact during the AM/PM Peak Hours – weekday
- Projects on recreational routes with impacts to capacity or lane widths – Fridays/Sundays
- Projects with significant impacts to special events – as needed



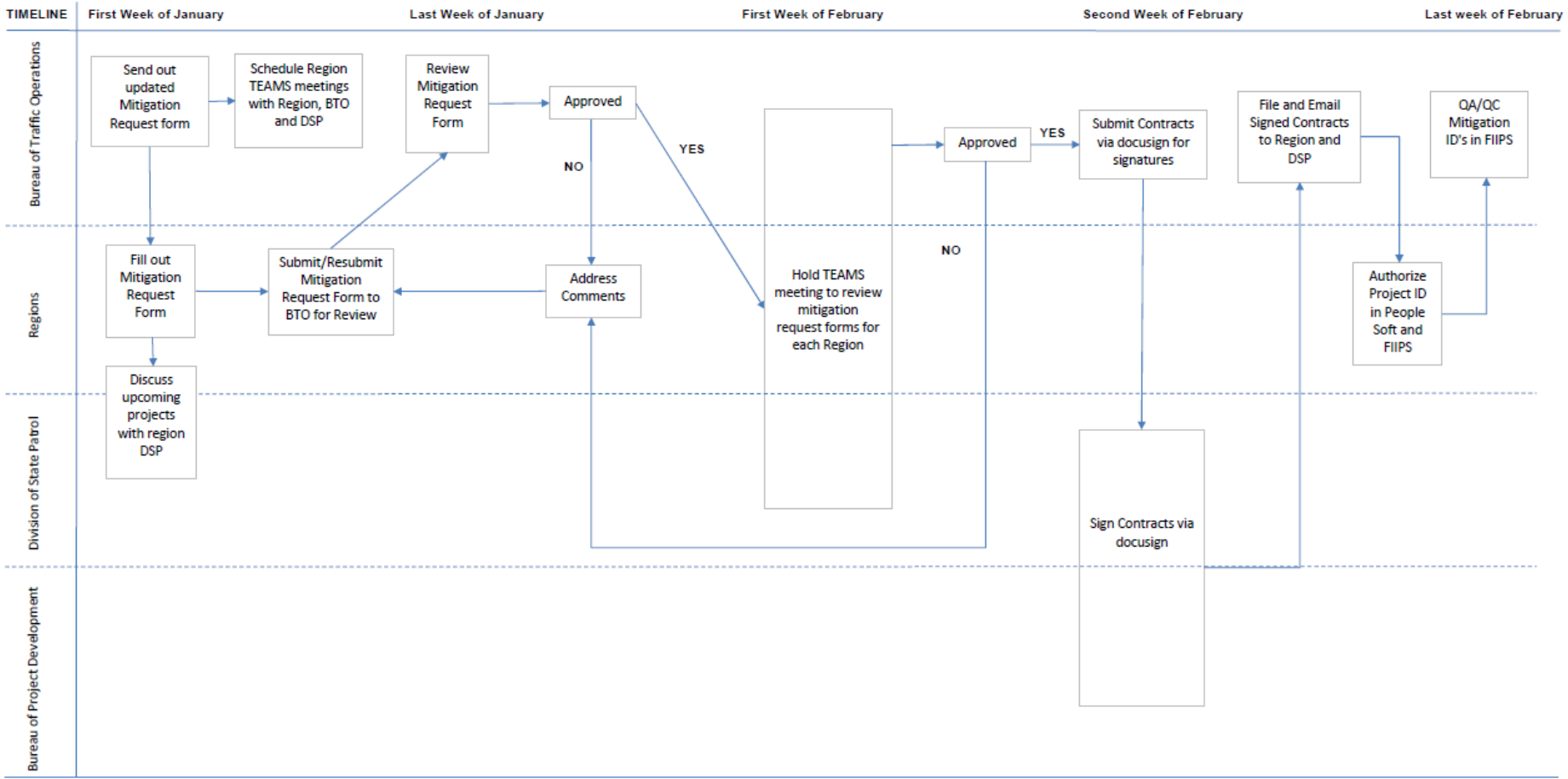
Work Zone Mitigation Process

- Steps to Complete a Work Zone Mitigation Request:
 1. Development of Estimate (Full Freeway Closures, Rolling Closures, Holidays, Peak Hours, Special Events)
 2. TMP Documentation
 - i. Updates at 60% and 90% Approvals
 3. Financial Integrated Improvement Programming System (FIIPS) Updates
 4. Review and Approval



DSP Mitigation Process Map

FDM 11-50 ATTACHMENT 7.2 DIVISION OF STATE PATROL WORK ZONE TRAFFIC MITIGATION CONTRACTS PROCESS MAP



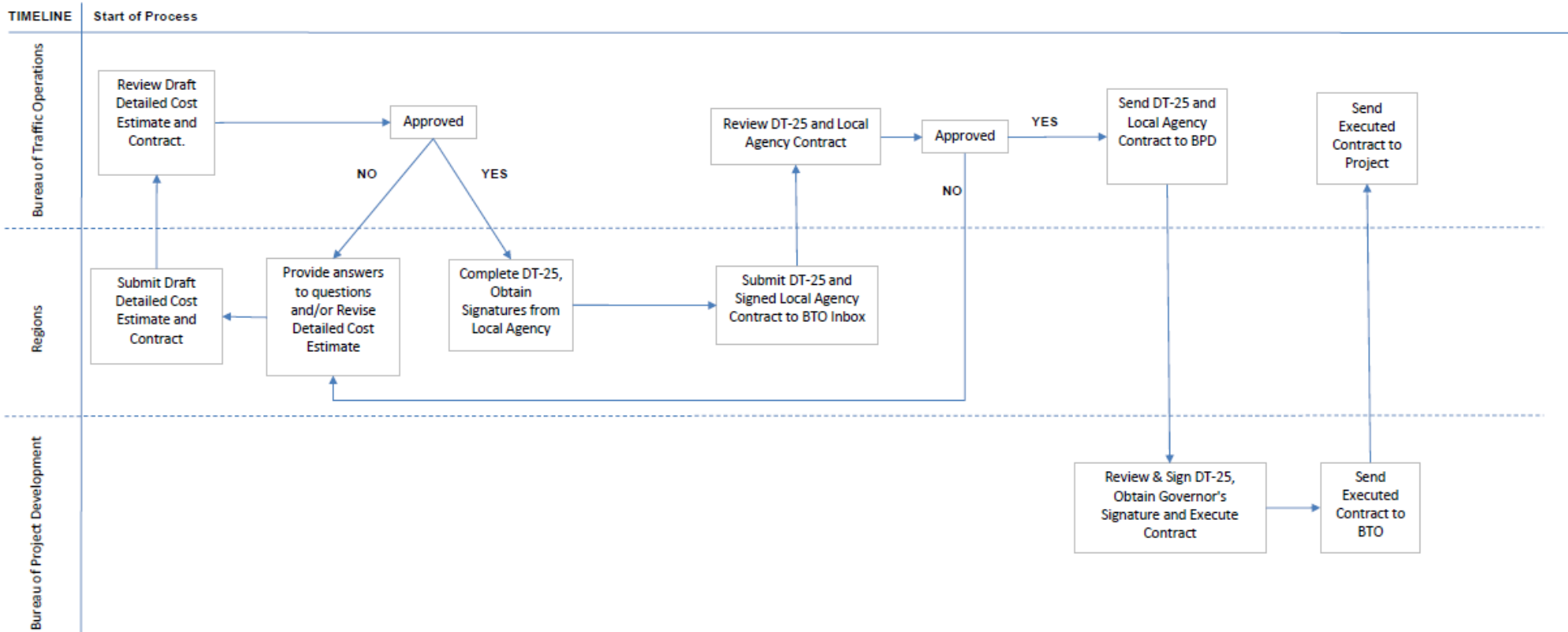
Local Agency Contracts

- Local Agency Law Enforcement Contracts
 - DSP has the first right to refusal. No contact may be made with agencies until DSP reviews and refuses contracts.
 - Follow same process as DSP, contracting process a little different because it requires Governor Approval
 - Regions should submit a DT-25, Recommendation to Governor for Contract and Bond Approval
 - Include Detailed Cost Estimate and Signed Contract from Local Agency
 - DOTBTOWorkZone@dot.wi.gov
- Other Local Agency Contracts
 - Temp Signal Timings, Temp Signing/Marking, Temp Bus Turn-Outs, etc.



Local Agency Process Map

FDM 11-50 ATTACHMENT 7.2 LOCAL AGENCY CONTRACTS PROCESS MAP



Smart Work Zones

- Guidance: FDM 11-50-25
 - Dynamic Late Merge System (DLMS)
 - Real-Time Traffic Queue Warning System (QWS)
 - Basic Traffic Queue Warning System (BQWS)
- Standard Detail Drawings
- Miscellaneous Quantities

DYNAMIC LATE MERGE SYSTEM (DLMS ITEM 643.1100.S)					
Location	Stage	FLASHING BEACON SIGNS (FBS)	PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)	PORTABLE TRAFFIC SENSORS (PTS)	DYNAMIC LATE MERGE SYSTEM (DAY)
IH 94 EB	1	6	2	9	100
IH 94 EB	2	6	2	9	70
IH 94 WB	1	4	2	6	100
IH 94 WB	2	4	2	6	70

* These items are part of the DLMS and are paid for one complete system per roadway

PORTABLE AUTOMATED REAL-TIME TRAFFIC QUEUE WARNING SYSTEM (QWS ITEM 643.1200.S)				
Location	Stage	PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)	PORTABLE TRAFFIC SENSORS (PTS)	QUEUE WARNING SYSTEM (DAY)
IH 94 EB	1	5	5	100
IH 94 EB	2	5	5	70
IH 94 WB	1	4	4	100
IH 94 WB	2	4	4	70

* These items are part of the QWS and are paid for one complete system per roadway

BASIC TRAFFIC QUEUE WARNING SYSTEM (QWS ITEM 643.1205.S)				
Location	Stage	FLASHING BEACON SIGNS (FBS)	PORTABLE TRAFFIC SENSORS (PTS)	BASIC QUEUE WARNING SYSTEM (DAY)
IH 41 NB	3	6	3	150
IH 41 SB	3	6	3	150

* These items are part of the QWS and are paid for one complete system per roadway



Smart Work Zones Reminders

- Deployment
 - Send plans to DOTBTOWorkZone@dot.wi.gov
- Monitoring
 - Check systems weekly
 - Noticing issues with flashing beacon signs
 - Noticing issues with system turning on when it shouldn't be
- Tracking Issues
 - Keep a log of issues and report to BTO to improve systems in the future



Smart Work Zones

- Truck Entering Systems
- Digital Speed Limit Signs
- Speed Wizards
- Temporary Rumble Strips



Questions?

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Erin Schwark

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A short survey will be linked in the Teams chat. Please respond!

A recorded webinar and slides will be posted online at:

<https://wisconsindot.gov/Pages/doing-bus/local-gov/traffic-ops/programs/programs.aspx>



Thank You!