Work Zone
Safety & Mobility
Work Zone Safety and Mobility (WZSM) Policy

- Michigan DOT: Policy Effective September 1, 2007
  - Official MDOT Guidance Document
  - Applies to all MDOT work zones (construction, maintenance, permits/utilities, local agency projects)
- Implementation Dates
  - Construction Projects - September 1, 2007
  - Maintenance Projects - January 1, 2008
  - Utility/Permit Projects - January 1, 2009
  - Local Agency Projects - January 1, 2009
WZSM Manual

- Manual is available on the MDOT public web
  - *Doing Business* Quick Link
  - Select *Work Zone Safety and Mobility* in the *Resources* section
  - Manual is available under the *Links* heading
  - Work Zone Safety and Mobility webpage:
    - [http://michigan.gov/mdot/0,1607,7-151-9625_54944---,00.html](http://michigan.gov/mdot/0,1607,7-151-9625_54944---,00.html)
WZSM: Possible Parts of a TMP

- Transportation Management Plans (TMP)
  - Temporary Traffic Control Plan (TTCP)
    - Includes: maintaining traffic special provision, typicals, plans, etc.
  - Transportation Operations Plan (TOP)
    - Plans for transit issues, maintaining non-motorized traffic, traffic signal coordination, proposed mitigation measures, etc.
- Public Information Plan (PIP)
  - How will the public be informed and through which media, media campaigns, newspapers, billboards, etc.
What is a Significant Project?

- Work Zone Travel Time Delay Greater than 10 minutes
- Volume to Capacity greater than 0.8
- Level of Service D or lower
- or if the roadway LOS has changed from LOS of A to C
Work Zone Safety and Mobility Construction Projects

- Non-Significant Project
  - Projects that do not exceed the mobility criteria thresholds
  - TTCP Required
  - TOP and PIP Recommended
Work Zone Safety and Mobility Construction Projects

- Significant Project
  - Projects that exceed one or more of the mobility criteria thresholds (volume to capacity ratio, level of service, travel time delay)
  - TTCP, TOP and PIP Required
  - Statewide Peer Review is Required
Statewide Peer Review Team (SPRT)

- Reviews all projects that are identified as significant
- Project Rating system
  - Standardized review form
  - Red, Yellow, Green Ratings
  - Executive level engagement
When are the TMP Submitted?

- TMP’s are to be submitted to the Operation Engineer after the Plan Review (80% complete) and before the Error & Omission Conference (EOC) (100% complete)
Who is on the Statewide Peer Review Team (SPRT)?
Who is on the Statewide Peer Review Team (SPRT)?

- Statewide work zone administrator (Chairperson)
- The remaining team is rotating
  - TSC manager
  - Development engineer
  - Delivery engineer
  - Traffic and safety engineer/technician
  - Region Engineer
Work Zone Safety and Mobility

- Statewide Peer Review Team (SPRT)
- Benefits:
  - Check and balance for mobility issues
  - Feedback from other areas
  - Statewide Work Zone Administrator provides consistency
  - Allows for sharing of Best Practices
Work Zone Safety and Mobility

- Temporary Traffic Control Plan (TTCP) items reviewed:
  - TTCP is reasonable and logical with the project duration and traffic volumes
  - Staging & Constructability is reasonable and well thought out
  - Project is compared to similar projects
  - Alternative analysis is done with comparison in Benefit/Cost
  - Crash analysis done for the location and compared to similar projects
  - Monitoring Plan for safety & Mobility
  - Contractor Ingress & Egress is addressed
Work Zone Safety and Mobility

- Transportation Operations Plan (TOP) items reviewed:
  - Delay mitigation techniques applied appropriately
  - Maintain pedestrian, local transit and non-motorized traffic
  - Emergency Responder access
  - Commercial Vehicle access
  - Project combined or bundled
  - Corridor Impacts
Work Zone Safety and Mobility

- Public Information Plans (PIP) items reviewed:
  - Is the public outreach appropriate for the project and scale of impact
    - MiDrive
    - Brochures
    - List Serves
    - Public Construction Kickoff Meetings
    - Social Media
    - Advance Notice/Delay Signs
  - Is the list of stakeholders comprehensive
TMP Rating

- **Green:** Proceed, Review SPRT comments
- **Yellow:** Proceed, Review SPRT comments; Project Office incorporate changes as appropriate. Feedback from Project Office is required
- **Red:** Do not Proceed, Review SPRT comments; Region Engineer to discuss with Chief Operation Officer
Challenges with TMP Reviews

- How and When do we do a TMP Review with Design Build Projects
- Quick turn around for Value Engineering Proposals
  - Have done an email Peer Review Team for this
Questions:
Angie Kremer, P.E.
Traffic Incident Management Engineer
KremerA@michigan.gov
571-241-4970