

Meeting Minutes: Statewide Work Zone Safety Committee

Date: March 8, 2018, 9:00 – 3:00
Minutes prepared by: Ken E. Johnson, MnDOT OTST
Location: MnDOT Shoreview Training and Conference Center, Shoreview, MN

Mission, Purpose, & Meeting Methods

- **Mission** – The SWWZSC will influence the actions of those involved with work zones through the information that is shared through the innovations and best practices that are identified so that we achieve safer work zones and fewer fatal and life changing crashes.
- **Purpose** to provide a forum for
 - Identifying work zone safety problems, safety areas, and help set priorities
 - Brainstorming ideas
 - Recommending direction to our functional offices and committees
- **Meeting Methods**
 - Committee, partner, and group reports with discussion. Representatives will give
 - Status report on Action Items (from previous meeting if assigned)
 - Update report on work zone safety issues
- **Committee Website**
 - Minutes, Presentations and Handouts for the Committee meetings may be found at the Committee website
 - <http://www.dot.state.mn.us/trafficeng/workzone/wzcommittee.html>

Attendance

- | | |
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| • Duane Hill, MnDOT D1 | • Tim Parkos, Washington County |
| • Jay Hietpas, MnDOT OTE | • Jim Koslucher, City of Fridley |
| • Tom Ravn, MnDOT OCIC | • Reed Leidle, NLCATSSA – Safety Signs |
| • Nancy Daubenberger, Engineering Services | • Dave Meslow, NLCATSSA – 3M |
| • Ken Johnson, MnDOT OTST | • Lynn Berg, SignCAD |
| • Bob Vasek, MnDOT OM | • Brad Drews, Contractors - Egan Co |
| • Ted Ulven, MnDOT OCIC | • Matt Krengel, TTC Services – Street Smart Rental |
| • Mark Vizecky, MnDOT SALT | • Eric Johnson, TTC Services – Salander |
| • Jeff Morey, MnDOT OTST | • JP Story, TTC Services - Salander |
| • Steve Blaufuss, MnDOT OM | • Kathy Schaefer, LTAP |
| • Will Stein, FHWA | • Jon Jackels, Consultants – SRF |
| • Adam Bruening, Washington County | |

- Jeff Hilden, Consultants - TKDA
- Mark Panek, MnDOT PCMG/CMG – D6
- Leigh Kriewall, MnDOT OCIC
- Sheila Johnson, MnDOT Metro Maintenance
- Dave Tody, MnDOT Metro Maintenance
- Sue Roe, MnDOT Communications
- Craig Collison, MnDOT Operations
- Todd Haglin, MnDOT Admin
- Rebecca Albrecht, MnDOT Metro Safety
- Rashmi Brewer, MnDOT OTE
- Ethan Peterson, MnDOT OTE
- Ron Rauchle, MnDOT Metro Traffic
- Scott Meier, MnDOT Metro Traffic
- Jeff Rieder, MnDOT D6 Traffic
- Morrie Luke, MnDOT D1 Traffic

Next Meeting

Date: October 3, 2018

Time: 9:00-3:00

Location: MnDOT Shoreview Training and Conference Center, Shoreview, MN

Agenda items: Submit proposed agenda items to Ken E. Johnson

Agenda and Meeting Notes

Welcome/Introductions

- **Tom Ravn – MnDOT Office of Construction and Innovative Contracting**
 - Introductions
 - This is our change to bring things up to this group. There is the agenda, but we should all share ideas to help with work zone safety.

Committee Reports

- **Executive Committee**
 - Tom Ravn, OCIC; Steve Lund, OM; Jay Hietpas, OTE; Duane Hill, D1
 - PE signature on TTC plans issue. Contractors, internal partners, and consultants are very interested in this. The Exec Committee decided to wait for the Board of Engineering to come up with their new rules. One concern with the draft rules was a signature requirement for any change in the field in a construction project. This was removed prior to the hearing.
 - Extraordinary Enforcement - some projects have been coming in for full coverage of projects. Patrol use should be more targeted, not for speed control for the entire length of the project.

- Also being considered for Maintenance projects. Perhaps starting in the Metro area.
 - OCIC has a one pager that contains guidance for the enforcement personnel.
 - Rashmi mentioned that the Enhanced Speed Compliance for WZs System is another possibility. It's an IWZ system so that the Patrol can be past the work zone and there are sensors and video to view the targeted area in the work zone. This allows a remote viewing so that Patrol can enforce past the work zone. This is best for enforcement as opposed to presence. The Patrol is not visible at the beginning of the WZ to slow traffic down.
- **Traffic Engineering Organizations Temporary Traffic Control (TEO TTC) Committee**
 - Co-chairs: Jeff Morey & Ken Johnson, both of OTE
 - PCMS Issues
 - Metro Maintenance likes the Type B boards. Many of the PCMSs aren't meeting the standards so we've pulled the APL until we've verified that they meet MUTCD standards. Dave Tody has been doing a lot of work on this issue.
 - **Update:** Upon discussions with industry and internal staff, it was found that essentially none of the CMSs and PCMSs on the market are fully MUTCD Compliant. OTE has written a request for clarification from the MUTCD subject experts regarding this issue. The revocation of the APL was rescinded.
 - Temporary Markings – Wet Reflective
 - TEO TTC has recommended that all Temporary Markings in WZs be wet reflective. This is reflected in the Traffic Engineering Manual and the Temporary Traffic Control Templates.
 - TTC for Traffic counters
 - Concerns about needing additional personnel. This has been brought up to MnDOT TDA.
 - Is it better to use trailer mounted devices to avoid placing tube counters?
 - Craig Collison mentioned that personnel safety is very important and MnDOT is investigating this more and want to make appropriate changes to improve safety. Is it more people or different technology.
 - More and more encouragement to have more than one person. Spotters can be a big assist.
 - Education will also be very important
 - Difficulty for volunteer first responders at flagging operations
 - Is there anything we can do to assist first responders to get through flagging operations? We are starting a Task Force with MnDOT personnel.
 - Field Manual update training has been occurring and the word is getting out.
 - Audible Message Devices – there is now a boilerplate special provision, Pay Item, & Approved Products List for these devices. They should be used on pedestrian detours
 - **MASH (Manual for Assessing Safety Hardware) & Crashworthy Discussion**
 - Ethan Peterson, OTE
 - Educated the group about MASH and how eligibility letters work.

- Midwest States are looking at coming up with a group that could assess modifications to devices with FHWA Eligibility Letters.

- **Time and Traffic Special Provisions Update Committee**
 - Chair: Ted Ulven, OCIC
 - The Time and Traffic Special Provisions Update Committee meets each year in October.
 - There is a task force looking at combining 1404, 1710 & 2563 elements into 2560 Traffic Control Management
 - Create for boilerplate special provisions in 2019
 - Pull into Spec Book 2020 & the boilerplate special provisions for 2020
 - This will be discussed this year at the Annual committee meeting.

- **Resident Engineers Work Zone Safety Advisory Committee**
 - Chair: Trudy Kordosky, District 4 Construction
 - Crash in Work Zone – Distracted driver not convicted of criminal vehicular homicide.
 - Tom Ravn mentioned that there is some legislation being considered this year that would:
 - Allow flaggers to report violations to law enforcement similar to the school bus notification
 - Would also broaden a ban on the use of wireless communication devices in work zones
 - See article and proposed legislation House File 1416 and Senate File 1265
 - House File 1180 adds to the Move Over law - to slow down if they can't move over.

- **Statewide Maintenance Temporary Traffic Control Committee**
 - Chair: Steve Blaufuss, OM
 - Added a few more members to the Committee - would like to add more Field members
 - Extraordinary enforcement - elements of this are controversial. Some districts are concerned that they wouldn't get assistance unless it is paid for.
 - Work Zone Reviews - will discuss at upcoming meetings

- **SWWZSC Industry Liaison Group**
 - Reed Liedle, NLCATSSA
 - Already touched on a lot of the hot items:
 - Wet reflective pavement markings
 - Field Manual Update
 - How to get the word out to all the appropriate audiences
 - Overall lack of Traffic Control Plans
 - Portable Rumble Strips - should this be added on plans?
 - Detectable Edge for Portable Sign Stands - concern
 - Contractors are not sure if this will be strictly enforced.
 - Work Zone Crash Data
 - Ken Johnson notified the group that MnDOT has access to 2016 and 2017 data but can't analyze it and the Safety Unit is working on the pipeline

- **Presentation – 2018 ATSSA Expo – Useful things seen and heard**
 - Ted Ulven, MnDOT OCIC; Steve Blaufuss, MnDOT OM; Ken E. Johnson, MnDOT OTST; Reed Liedle, NLCATSSA; others?
 - Ken showed a few pictures of interesting devices

- Steve Blaufuss discussed a large speaker that would convey a warning with initiation from the driver of a protection vehicle
- **Discussion – Temporary Traffic Control Training**
 - Mark Vizecky, SALT; Reed Leidle, NLCATSSA; Leigh Kriewall/Ted Ulven, OCIC; Kathy Schaffer, LTAP; Ken Johnson/Jeff Morey, OTST; Bob Vasek/Steve Blaufuss, OM; ***anyone else with opinions***
 - Several meetings with SRF and State Aid is requesting funding from senior leadership. Would move forward with a direct select contract to bring SRF on board to:
 - Review existing training that is available
 - Determine holes and who needs to be trained
 - What training is needed
 - Related to Field Manual Training. MnDOT has some sessions recorded - Kathy Shaefer's 3 hour training and OTE's 1 hour Field Manual Update
- **Presentation – Work Zone Intrusion Reporting**
 - Nichole Morris, Director of HumanFIRST Laboratory at the U of MN gave a presentation about the development of a workable work zone intrusion reporting system and methodology. The presentation, ***Development of WZ Intrusion Reporting System - SWWZSC 180308.pdf***, can be found on the Committee website.

External Partner Reports

- **Law Enforcement**
 - Major Cheri Frandrup (State Patrol) - no update at this time.
- **Engineering Consultants**
 - John Crawford, Kimley Horn; Jon Jackels, SRF; Jeff Hilden, TKDA
 - Jon Jackels - observation from today. A lot of good work is happening, but it's not getting out. People are not hearing what changes are being made. The outreach piece is important. How do we get good ideas out to the people to implement them?
 - Jeff Hilden - Nevada DOT WZSM Guide - whole section on allowed training to do certain activities in TTC
 - Organizations to get info out to:
 - ACEC
 - NCITE
 - ASCE Local Chapters
 - Northland Chapter of ATSSA
- **Report – Next Steps for Work Zone Challenges Project (IWZ related)**
 - Jon Jackels, SRF gave a presentation about IWZs in Work Zones and MnDOT's efforts to make IWZ more used in projects. The presentation, ***Next Steps for WZ Challenges - SWWZSC 180308.pdf***, can be found on the Committee website.

- The Decision Tree handout and high level cost estimates is a living document. Costs will change once we have bids. Reed Leidle felt that the costs seemed really high for some of the systems. If others have suggestions of high level, scoping costs, give them to Rashmi.
- AWARE intrusion warning system - LRRB and MnDOT is conducting research on this system - presentation included video
 - Works with Moving Operations and Flagging Operations
 - Is there a way to get these systems as a pilot project for MnDOT maintenance projects
 - Design of deployment
- Directional Speaker Alarm System - AMSIG
 - Can this be demonstrated on a project in MN?
 - Is there a rental possibility?
 - Iowa DOT is purchasing 12 systems and we may be able to ask them for a demo in MN
 - Would AMSIG be willing for a demo
 - Possibly make available in D6 or D7 when striping is going on
- Please give feedback to Rashmi and Jon.

- **Presentation – Field Manual Update**
 - Ken Johnson, MnDOT OTE gave a presentation about the updates to the Field Manual. The presentation, *Field Manual Update - SWWZSC 180308.pdf*, can be found on the Committee website.

- **Northland Chapter of ATSSA**
 - Reed Leidle, Jay Blanchard, Ken Russell
 - The Northland Chapter of ATSSA’s How-To will be held March 19-21, 2018.
 - Pre-conference workshop - Field Manual (4 hours)
 - County engineers are being encouraged to attend.
 - General sessions
 - Autonomous vehicles
 - Behind the scenes planning of TTC for superbowl

- **Contractors**
 - Doug Swenson, AGC; Woody Bear, Shafer; Brad Drews, Egan
 - Covered the topics earlier today – nothing to add

- **TTC Providers**
 - Mike Granger, Street Smart Rental; Eric Johnson, Salander Tech; Reed Leidle, Safety Signs; Tim Lewis, Warning Lites of MN
 - Covered the topics earlier today – nothing to add

- **FHWA**
 - Will Stein, FHWA
 - Nothing to add

- **Counties**

- Wayne Sandberg, Washington County; Adam Bruening, Washington County; Vic Lund, St. Louis County
 - Nothing to add
- **Municipal**
 - James Koslucher, Fridley
 - Nothing to add
- **Local Agency Education**
 - Kathy Shaefer, LTAP
 - Nothing to add
- **Utilities**
 - Dale Anderson, Center Point Energy; David Haedtke, Century Link
 - Nothing to add

MnDOT Internal Partner Reports

- **Management Teams**
 - PCMG & CMG – Mark Panek
 - Mark Panek will report to PCMG and CMG what he's heard about
 - OMG – Sue Lodahl
 - Steve Lund - OMG
- **Maintenance**
 - OM – Bob Vasek
 - There is a challenge coming up such that we will need to start talking to the car when CAV are out there.
 - Colorado DOT has an autonomous TMA that is showing some promise.
 - Training – Kathy Schaefer
 - Districts – Sheila Johnson
- **Traffic Engineering**
 - OTE – Jay Hietpas, Peter Buchen, Rashmi Brewer, Ken Johnson
 - Peter thanked those that helped with the Field Manual development
 - Rashmi mentioned that ITS America will be conducting a Connected Vehicle 201 course
 - Districts – Ron Rauchle, Jeff Rieder, Scott Meier, Morrie Luke
- **Construction**
 - OCIC – Tom Ravn
 - Training/WZSAP – Leigh Kriewall
 - Districts – Trudy Kordosky
 - Concern brought forward by other resident engineer. About how difficult it was to implement a 24/7 Construction Speed Limit

- March 20-22 is Resident Engineers Meeting

- **Communications**
 - Statewide – Kevin Gutknecht, Sue Roe
 - Metro – Chris Krueger
 - Sue Roe - Construction Kick-off is April 4th, April 9th through the 13th - National Work Zone Safety Awareness Week, April 28th - Worker Memorial Day
 - Worker Memorial Day - Bridge will be lit

- **Worker Safety**
 - Statewide – Todd Haglin
 - District – Becky Albrecht

- **State Aid**
 - SALT – Mark Vizecky
 - Districts – Kelvin Howieson
 - State Aid really appreciates involving local agencies

Adjourned