



# CDOT's Work Zone Safety and Mobility Process Review

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# Topics

- Purpose
- Scope
- Process
- Project Selection
- Questionnaire
- Questionnaire Evolution



# Purpose

- Assess Effectiveness and Consistency
  - WZSM Policies
  - Procedures
- Assess Project Level Practices in Traffic, Design and Construction
- Focus to Improve the Safety and Efficiency of Work Zones
  - Speed Reduction Practices
  - Lane Closure procedures
  - Positive Protection
  - Transportation Management Plan Implementation



# Scope

- Review CDOT's Processes and Procedures Related to WZSM at the Program and Project Levels.
- Assemble a Multidisciplinary Review Team with Representation from:
  - Project Development
  - Safety and Traffic
  - Region Traffic
  - Residencies
  - Project Management
    - Design
    - Construction
    - Traffic Operations



# Process

- Continue to Conduct the Traffic Control Reviews Yearly
- Create a Questionnaire for Projects to Complete
  - Design
  - Construction
  - Traffic/Safety
- Select Projects to complete the questionnaire
- Compile the Results for the Review Team to Review
- Document Commendable Practices and Recommendations
- Create Follow-up Actions and Assign to the Responsible Parties
- Issue WZ Process Review Report and Present to every CDOT Residency



# Project Selection

- Traffic Control Reviews
  - Six Construction Projects in Each Region
    - One Nighttime Operation Field Review
    - Two Maintenance Project Field Reviews
    - **One Full Office and Field Review**
    - One No Notification Field Review
    - One Notification Field Review
- WZ Process Review used the “One Full Office and Field Review” Project to Receive the Process Review Questionnaire
  - Six Projects Statewide



# The Questionnaire

- General Questions
  - Addressed to Project and Design Personnel
- Design Questions
- Construction Questions
- Safety/Traffic Operations Questions



# General Question Examples

- What TCP and WZSM Procedure required strategies are commonly utilized on this project?
- Please explain any overall concerns you have with the WZSM Procedures?
- Do other elements of work phasing, and environmental requirements, affect your WZSM procedures?



# Design Question Examples

- During project scoping is the minimization of road user impacts considered?
- Has the implementation of WZSM procedures caused you to consider additional or different strategies than what has been used in the past?
- For projects on the Interstate within a Transportation Management Area, have any exception requests been submitted to FHWA?



# Construction Question Examples

- Are TMP's being implemented as designed? If not, what changes are commonly made?
- Is the designer notified?
- What criterion is utilized to adjust speed limits during the course of a project?





# Traffic Operations Question Examples

- Are projects sequenced to consider the overall network and region-wide impacts?
- When is public information used and what methods do you use?
- Who makes the final decision on work zone speed limits?



# Successful Practices

- Projects are utilizing custom operation strategies that exceed required minimum CDOT traffic control and operations strategies
- Well coordinated public outreach and relations efforts
- Variable Message signs are being used in the cases of extended delays and to notify the public of upcoming construction



# Follow-up Actions

- Some confusion on the updated WZSM rule and the purpose, even though information sessions were held.
  - CDOT will continue to provide information sessions and make the presentation available online.
- Some Project Designers are not being notified of adjustments to the TCP.
  - CDOT will update the Construction Manual to require Project Engineers to notify the designer.
- Contractors were not surveyed for this Process Review. CDOT will develop contractor questions during the 2013 review





# Questions?

<http://www.coloradodot.info/library/traffic/traffic-manuals-guidelines/lane-close-work-zone-safety>



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