FDOT’s Work Zone Fatality Reduction Strategies

- Motorist Awareness System (MAS)
- Temporary Raised Rumble Strips for Flagging Operations
- In-depth Process Reviews/Training
- Public Service Announcements
FDOT’s Motorist Awareness System (MAS)
What is the Motorist Awareness System (MAS)?

- Addition of 5 components to a standard lane closure
- Goal: Achieve same respect for Work Zones that Florida’s School Zones currently received.
  Reduce speed in work zone where workers are present
When to use MAS?
(All conditions must be met)

- Multilane facility
- Posted speed limit is 55 mph or greater
- Work operation requires a lane closure
- Workers are present
What Devices are used?

Changeable Message Sign notifies motorist of speed reduction

WORKERS PRESENT AHEAD

SPEED REDUCED NEXT 3MI
Where to place CMS device

Typical PCMS Display

With speed reduction:
Message 1: WORKERS PRESENT AHEAD
Message 2: SPEED REDUCED NEXT 3 MILES

Without speed reduction:
Message 1: WORKERS PRESENT AHEAD
Message 2: NEXT 3 MILES

SLEO

Speed and Law Enforcement Officer
(Patrolling The Active Work Area)

Stefanie D. Maxwell, P.E.
What devices are used?

Portable Regulatory Sign (PRS)
Where to place PRS devices

Typical PCMS Display

With speed reduction:
Message 1: WORKERS PRESENT AHEAD
Message 2: SPEED REDUCED NEXT 3 MI

Without speed reduction:
Message 1: WORKERS PRESENT AHEAD
Message 2: NEXT 3 MILES

SLEO

Speed and Law Enforcement Officer
(Patrolling The Active Work Area)
What devices are used?

Radar
Speed
Display
Unit
(RSDU)
Where to place RSDU devices
Motorist Awareness System

Speed and law enforcement officers are used randomly to enforce the reduced speed in the work zone.
Costs of Devices for FDOT’s MAS

- **Changeable Message Signs**
  - $12.30 per day

- **Portable Regulatory Signs**
  - $6.03 per day per sign

- **Radar Speed Display Units**
  - $6.31 per day per sign
Research Study Evaluating FDOT’s MAS

- Speed reduced average of 4 to 5 mph
- Research Study Link:
  
  http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_SF/BD500/BD500_v4_rpt.pdf
Where to get more information on the MAS

- FDOT Design Standard Index 670:
  [http://www.dot.state.fl.us/rddesign/DS/12/IDx/00670.pdf](http://www.dot.state.fl.us/rddesign/DS/12/IDx/00670.pdf)

- State Construction Office:
Temporary Raised Rumble Strips for Flagging Operations
Temporary Raised Rumble Strips for Flagging Operations

**Typical Placement of Temporary Raised Rumble Strips**

**Typical Placement of Temporary Internally Ballasted Rumble Strips**

**General Notes**
- Temporary rumble strip sets shall be placed in advance of each flagging station when called for in the plans.
- Temporary rumble strip sets are used to supplement a series of advance warning signs and shall be installed and removed when the signs are installed and removed.
- Remove reposition rumble strips prior to removing the advance warning signs.
10.12.16 Temporary Raised Rumble Strip Sets

Temporary raised rumble strips should be considered in addition to normally used warning signs/devices on the approach to flagging operations where additional alertness is desired of drivers approaching flagging operations. Work zones in an isolated location or with sharp horizontal or vertical curves may benefit from the additional advance warning by alerting drivers visually, audibly, and tactiley of the approaching work zone.
FDOT’s In-depth Process Reviews/Training

- Multidiscipline team performs review
- Review 3 projects per district and 4 districts per year
- Conduct hands on training in districts
  - Current training topic – crash cushions
Public Service Announcements
http://www.itseveryonesjob.com/index.shtml

The Florida Department of Transportation asks you to do your job when it comes to Work Zone Safety.

1. BE ALERT
Expect anything to occur when entering a work zone.

2. DON'T TAILGATE
Unexpected stops frequently occur in work zones.

3. DON'T SPEED
Note the posted speed limits in and around the work zone.

4. DON'T CHANGE LANES IN THE WORK ZONE
Any time saved just isn't worth the chance.

5. MINIMIZE DISTRACTIONS
Avoid changing radio stations and using cell phones while driving in the work zone.

6. EXPECT THE UNEXPECTED
Keep an eye out for workers and their equipment.
Public Service Announcements
http://www.itseveryonesjob.com/index.shtml
# Fatality Analysis Reporting System (FARS)

## Work Zone Fatalities

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Questions ???
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