



Next Steps for Work Zone Challenges

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Statewide Work Zone Safety Committee

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Four Challenges

- Work Zone Intrusion Warning System (WIWS)
- End of Queue Warning System for Work Zones
- Distracted Drivers Approaching or Within a Work Zone
- General Mobility Impacts Caused by Work Zone



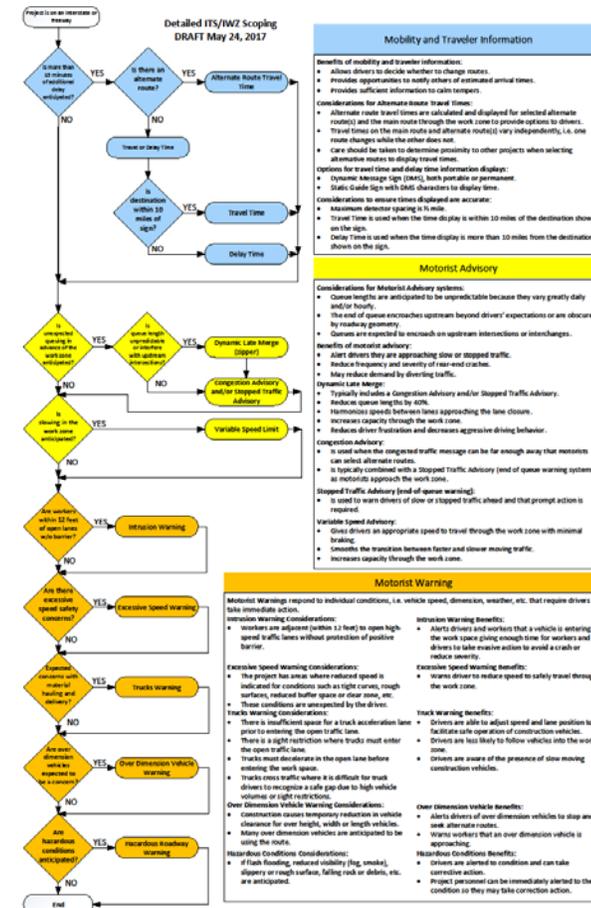
Major Outcomes

- Institute planning and scoping procedures for ITS/IWZ
- Monitor, test and evaluate ITS/IWZ deployments
- Identify and assess key performance and surrogate measures
- Develop procurement packages and generalized boiler plate special provisions



Planning for ITS/IWZ

- Part of statewide planning and scoping effort.
- Developing decision support tools:
 - When to use ITS/IWZ
 - Budgeting for cost

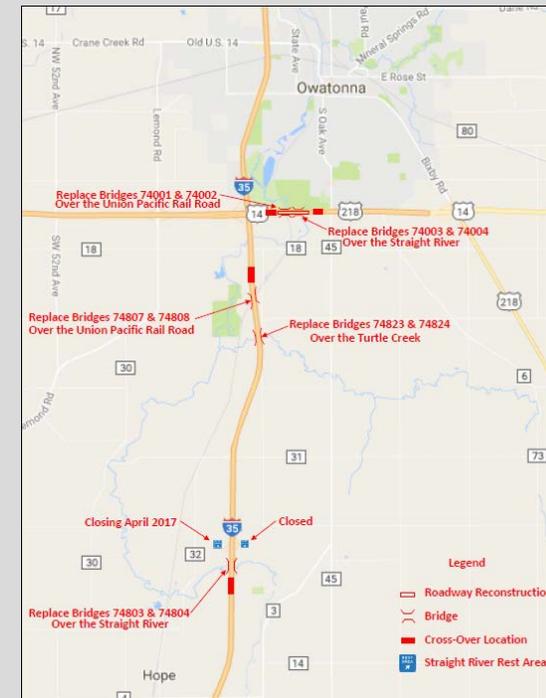


2017 Pilot Projects

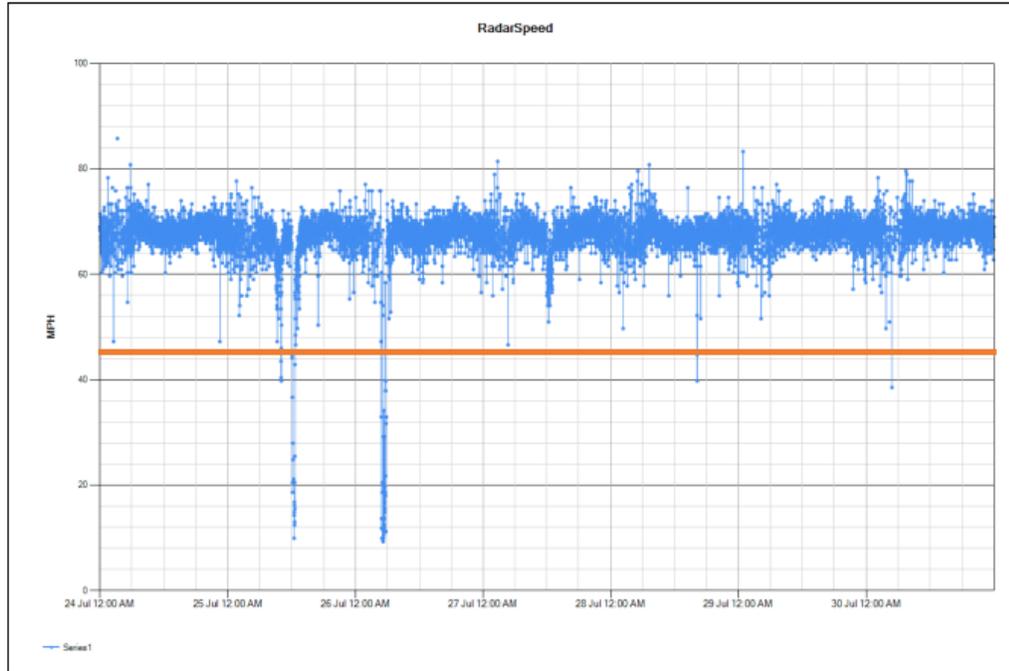
TH 52 Rochester to Cannon Falls



I-35 and TH 14 near Owatonna



2017 Project Monitoring

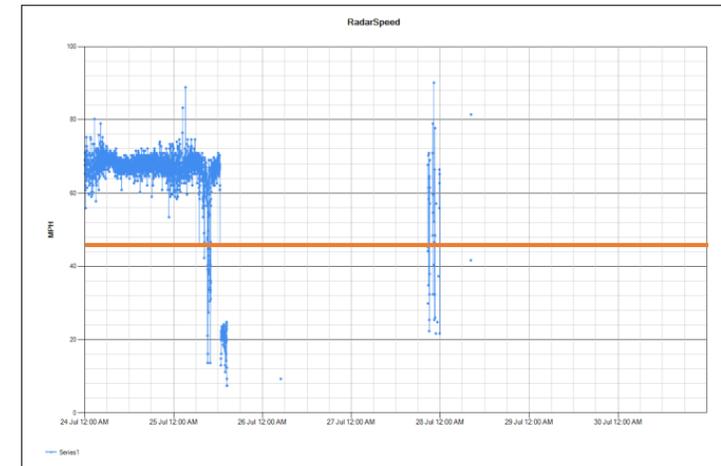


Sensor 962: SB US 52 N of 295th St NE; Activates Signs: 350

Percent Uptime: 91%

Activations:

7/25/2017 10:08:52 AM	7/25/2017 12:07:49 PM	7/25/2017 12:21:48 PM	7/25/2017 5:03:50 PM
7/26/2017 4:49:48 AM	7/27/2017 11:17:52 PM	7/28/2017 4:17:51 PM	7/28/2017 4:57:47 PM
7/30/2017 4:49:49 AM			



Sensor 1409 NB US 52 at Co Rd 7; Activates Signs: 1409 & 876

Percent Uptime: 21%

Activations:

7/25/2017 9:13:14 AM	7/25/2017 9:47:50 AM	7/25/2017 12:50:48 PM	7/27/2017 8:44:50 PM
7/27/2017 9:03:47 PM	7/27/2017 10:05:49 PM	7/27/2017 10:31:47 PM	7/27/2017 10:38:50 PM
7/27/2017 11:17:50 PM	7/27/2017 11:53:50 PM		

- I-35 near Owatonna (SP 7480-126) – District 6
 - End of Queue Warning
- I-35 north of Faribault (SP 6680-113) – District 6
 - End of Queue Warning
 - Active Zipper Merge
 - Travel Time
- TH 169 north of St. Peter (SP 5209-74) – District 7
 - End of Queue Warning within the work zone
- I-35W various locations – Metro District
 - End of Queue Warning
 - Travel Time

Local Road Research Board Project Advance Warning and Risk Evasion (AWARE) System



Distracted Driver

Evaluation of Mobile Work Zone Alarm Systems



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Thank you again!

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