As part of AZTech and the Federal Highway Administration’s Every Day Counts (EDC) initiative, the Maricopa County Department of Transportation (MCDOT) developed a concept for deployment for Smarter Work Zone (SWZ) technology at work zone sites. The purpose of this project is to support the design of a SWZ system that will be implemented during the construction of MCDOT’s MC-85 project from 107th Avenue to 75th Avenue. While the concept will be piloted during the MC-85 project, it is intended that this concept would be adaptable to all MCDOT and AZTech partner work zones.

Through the project, a matrix was also developed to assist in selecting the appropriate SWZ components for different work zone needs. Nationally, there are a limited number of examples of arterial SWZ applications. AZTech is leading the way in SWZ innovation for arterials.

1. **INFORM**—VMS, Side-Fire Radar, ARID Traffic Detector
2. **ADVISE**—CCTV, VMS, Side-Fire Radar, ARID Traffic Detector
3. **WARN**—Speed Feedback
4. **CHECK**—Speed Feedback
5. **STAND-ALONE DETECTION**—Side-Fire Radar, ARID Traffic Detector on Alternate Routes supplemented by third party data
6. **CVISN**—DSRC at ADVISE and WARN locations
1. **PCMS**

**Eastbound (EB) MC 85 INFORM PCMS**

- **FAULT**: Error / Issue
  - **NEW**: Const Next 4 Miles
- **DEFAULT**: Check > ## mph & TT ≤ 8 min “Free Flow”
  - **NEW**: Const Next 4 Miles
- **SLOW**: Check > ## mph & TT > 8 min
  - **NEW**: Const Next 4 Miles
- **MAJOR**: Check < ## mph & TT > 20 min
  - **NEW**: Time to 75Th 20+ min

*Second Phase of Message when Travel Times (TT) for alternate routes are TT= >20min =*

2. **PCMS**

**Eastbound (EB) MC 85 ADVISE PCMS**

- **FAULT**: Error / Issue
  - **NEW**: Const Next 3 Miles
- **DEFAULT**: Check > ## mph & TT ≤ 8 min “Free Flow”
  - **NEW**: Const Next 3 Miles
- **SLOW**: Check < ## mph & TT > 8 min
  - **NEW**: Const Next 3 Miles
- **MAJOR**: Check < ## mph & TT > 20 min
  - **NEW**: Time to 75Th 20+ min

*Second Phase of Message when Travel Times (TT) for alternate routes are TT= >20min =*

*These are preliminary VMS messaging although is being adjusted during project deployment as necessary*

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