

DMS Site Selection and Design Process

- ◆ Obtain recommended locations from Congestion Management Section
- ◆ Identify points of interest:
 - ▷ Alternate route(s)
 - ▷ Venues (Stadiums, Motor Speedways, Sports /Concert Arenas)
- ◆ Set up a field investigation event with the following people:
 - ▷ Division Incident Management Engineer
 - ▷ Regional ITS Engineer
 - ▷ Regional Traffic Engineer
 - ▷ Signing Project Design Engineer
- ◆ Select a location that meets the following criteria:
 - ▷ Select location that is 2–4 miles in advance of the point of interest
 - ▷ Insure that display has at least 1200' of unobstructed sight distance
 - ▷ Avoid placement in curves
 - ▷ Select location where shoulder is widest to avoid future lane closure
 - ▷ Ensure an ideal location at least 50 feet in advance of the display can be selected for the controller cabinet
 - ▷ Consider phone and power service availability
 - ▷ For 1–2 lanes (each direction) consider pedestal type assembly
 - ▷ For 3 or more lanes (each direction) consider full span assembly
 - ▷ Ensure all parties agree on the selected location
- ◆ Confirm the location by sending emails to all parties involved
 - ▷ Reference the location from the nearest mile marker
 - ▷ If no mile marker exists, use bridge or intersection as reference
- ◆ Confirm availability of utilities by coordinating with Division personnel and Utility agents
- ◆ Develop Project Special Provisions
 - ▷ Determine if a particular brand is to be specified
 - Ensure integration section and pay item is included
 - Ensure that a bench test unit is not required
 - Determine if training is required
 - Determine if UPS, Modem, and Modem Reset devices are needed
 - ▷ Determine if desktop /laptop computers are needed
 - ▷ Determine if software upgrade is required
 - ▷ Determine if Fiber Optic Communication is to be used
 - Determine if dial-up backup system is not required
 - Ensure that dial up modems and related devices are not required
- ◆ Follow up with the Signing Section on the development of Structure line drawings, Traffic Control, and Roadway Plans
- ◆ If assembling the package for submission to Design Services, obtain plans from Traffic Control and Roadway and confirm quantities
- ◆ Ensure DMS Grounding Detail is inserted into the ITS Plans
- ◆ Ensure DMS Project Special Provisions are included with ITS Package

Dynamic Message Signs – Site Selection & Design Process

TRAFFIC MANAGEMENT SYSTEMS SECTION
 TRAFFIC ENGINEERING AND SAFETY SYSTEMS BRANCH
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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