Transportation Management Plan Design Checklist

A comprehensive transportation management plan is a project within a project. VDOT is obligated to provide a safe and workable plan for controlling traffic that is consistent with the project's construction requirements. Although there may be more that one workable solution, a thorough analysis of all the variables will assist in producing a TMP that sets the appropriate level of safety for the general public as well as construction workers. The Project manager, with the Project Team, should thoroughly review this checklist to ensure that all applicable work zone elements have been captured during the design phases.

Required checklist items are in bold text. Not all items listed are applicable to every project, but should be considered when appropriate.

PROJECT DEFINITION & PLANNING

☐ Transportation Management Plan Strategy
Scoping meeting with Regional Operations Director, Regional Traffic Engineer an
Regional Work Zone Safety Coordinator
Formal meeting with local agencies such as law enforcement, EMS/Fire, schools, etc. a
applicable
☐ Establish project's TMP category
☐ Work Zone Capacity Analysis
Existing lane capacity
☐ Work hour restrictions (days & hours)
Detour route capacity analysis
Appropriate work zone type(s) (Long-term stationary, Intermediate stationary, etc.)
Existing Operational Factors
Local traffic operational problems
Accidents & accident rate
Geometric conflicts or issues
☐ Sight distance problems
 ☐ Adjacent project coordination ☐ Commercial/private access impacts
Special events
☐ Seasonal factors
Ferry schedules
On-street parking
☐ Emergency services
Transit, schools, mail delivery, parks, etc.
☐ Work Zone Location Considerations
☐ Define all work zone limits/locations
Existing lane conflicts
Roadside hazards
Overhead/over width limitations
☐ Grade/profile conflicts
☐ Staged construction/work zones
☐ Worker Safety
☐ Positive protection (barrier)
☐ Work exposure during
○ Set-up
o Removal
Flagger considerations
☐ Truck-mounted attenuator (TMA)
Work zone intrusion analysis

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Work Zone Temporary Traffic Control Strategies

☐ Long-term	
STRATEGY	PLAN TYPE
☐ Total road closure	Detour
☐ Partial road closure	Crossover
☐ Interchange closure	Detour
Ramp closure	Detour/Alternate route
Crossroad closure	Detour/Alternate route
Lane shift	Temporary Channelization
Lane closure	Temporary Channelization/barrier
Shoulder closure	Temporary Channelization/barrier
Reversible lanes	Temporary Traffic Control figure/detail
Temporary traffic signal	Temporary Traffic Control figure/detail
Temporary yield/stop control	Temporary Traffic Control figure/detail
Temporary widening/connections	Temporary Channelization/barrier
Temporary structures	Temporary Channelization/barrier
Chart town	
☐ Short-term STRATEGY	PLAN TYPE
☐ Off-peak road closure	Detour
☐ Off-peak Partial road closure	Detour/Crossover
Off-peak Interchange closure	Detour/Alternate route
Off-peak Ramp closure	Detour/Alternate route
Off-peak Crossroad closure	Detour/Alternate route
☐ Off-peak Lane closure	Temporary Traffic Control figure/detail
Shoulder closure	Temporary Traffic Control figure/detail
Flagger control	Temporary Traffic Control figure/detail
☐ Pilot car control	Temporary Traffic Control figure/detail
Refer to the Virginia Work Area Protection Manu	al for guidelines on work zone types and information
on the application of Temporary Traffic Control F	
Construction Considerations for	or Temporary Traffic Control
Removal of permanent traffic control features Maintaining existing features (illumination, signing	a signals atc.)
Work area access control (safe ingress & egress)	g, signals, etc./
Adequate work area space for the contractor	
Adequate space for material/equipment storage	
Temporary illumination	
Temporary drainage	
Switchover to new stage (time for pavement marking/	marker changes)
Winter shut-down instructions (intermediate stage?)	······································
Cure time closure pours	
Existing shoulder durability (including drainage grates	s) for temporary lane shifts

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Work Zone Public Information and Outreach Strategies

☐ Brochures/Flyers/Fact Sheets/Newsletters	
Public Meetings/workshops/Events	
Pail Advertising (TV, Radio, Newspaper)	
Newspaper Articles	
TV/Radio traffic news	
Press Kit	
Project Hotline/511 System	
Dynamic Message Signs	
☐ Highway Advisory Radio (HAR)	
☐ Fright travel information	
Rideshare promotions	
☐ Telecommuting promotions	
☐ Park & ride/transit promotions	
☐ Information center/kiosk	
Web site	
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Web-connected traffic cameras	
Work Zone Traffic Operations Strategies	
Work Zone Traffic Operations Strategies	
Work Zone Traffic Operations Strategies ☐ Incident/emergency response plan	
Work Zone Traffic Operations Strategies ☐ Incident/emergency response plan ☐ Law enforcement presence/enforcement	
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