



Transportation Management Plan Requirements

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Transportation Management Plan Requirements

Topics

- **Overview of the Federal Requirements**
- **Review of VDOT's Current Guidelines**
- **Training Status**
- **Annual Project Reviews**
- **Field Changes**

Transportation Management Plan Requirements Overview of Federal Requirements

Two Transportation Management Plan Functions

- **Institutional Function**
 - The establishment of Guidelines, Standards, Specifications etc.
 - Assessment of their effectiveness
- **Project Function**
 - The implementation of the Guidelines, Standards, Specifications etc.
 - Assessment of their effectiveness

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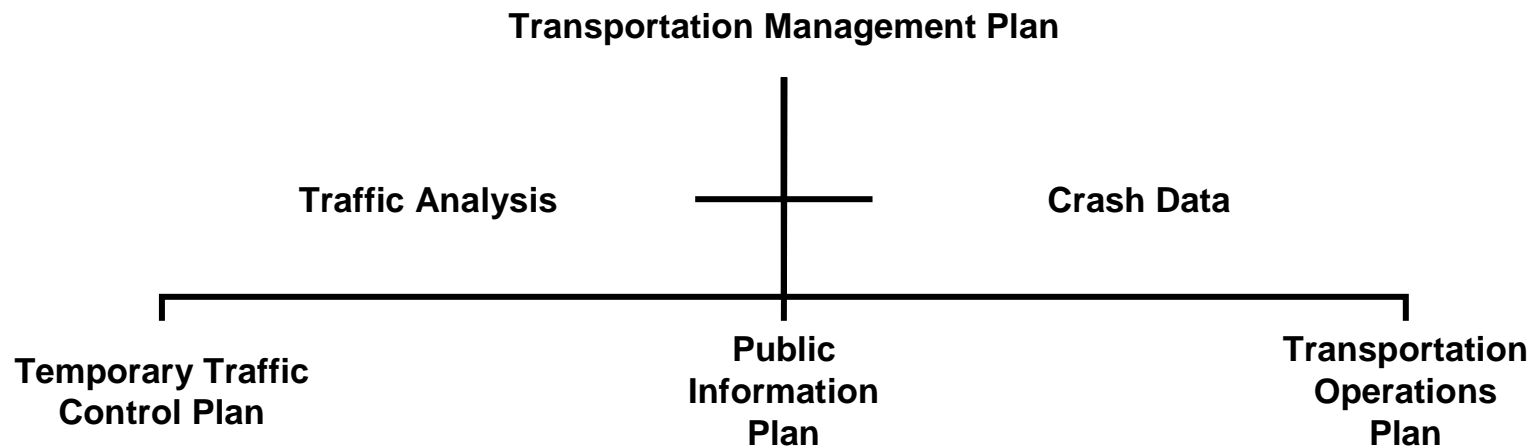
IIM-LD-241/TED-351

Work Zone Safety and Mobility Provides Guidance on:

- **Temporary Traffic Control, Public Information, and Traffic Operations strategies for managing work zone impacts to traffic.**
- **Roles and responsibilities for project teams in developing TMPs during the preliminary engineering and construction phases of a project.**
- **Categorizes projects based on the complexity of the construction.**⁴

What is a Transportation Management Plan at the Project Level?

A TMP is a set of coordinated strategies based on traffic and crash analysis coupled with a project's scope and work activities to produce efficient and safe Temporary Traffic Control, Public Information and Transportation Operation Plans followed by a post activity review to measure their effectiveness.



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Components of a TMP

- **Will always have a Temporary Traffic Control Plan**
 - **Narrative, Sketch, and/or Drawing**
- **Typically will have a “Limits of Operations” provision**
 - **Notes the time that work zone can be in place**
- **May have a Public Information, Transportation Operation Plan**
- **May have a provision for a Contractor Alternative TMP**

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Work Zone Safety and Mobility

Three Categories of Projects:

- **Category A – Typically maintenance/utility projects**
 - Traffic is maintained at all times
 - Flagging and lane closures should comply with regional lane closure polices.
- **Category B – Typical roadway construction projects**
 - Traffic impact is limited to the area containing the work zone.
 - Requires a traffic impact analysis proportional to the complexity of the construction and type/duration of the work zone(s).
- **Category C – Large scale multi-phase multi-year construction projects on Interstate, freeway and primary arterial roadways and/or a series of projects within a TMA. Requires a detailed traffic analysis for the work zone and all adjacent roadways.**

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Additional Guidance

Traffic Engineering Division Memorandums

- **TE-289 – Eradication of Pavement markings in Work Zones**
- **TE-340 – Speed Limit and Fine Signs in Work Zones**
- **TE-345 – Work Zone Traffic Control Training Procedures**
- **TE-350 – Work Zone Speed Analysis**



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Work Zone Traffic Control Training

Number of Individuals Trained as of September 1st

Basic Work Zone Traffic Control: 9,701

Intermediate Work Zone Traffic Control: 2,882

Advanced Work Zone Traffic Control: 474

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Observations Based on this Year's Project Reviews

Problems:

- **Providing for pedestrian traffic in work zones**
- **Use of roll-up signs for night-time work zones**
- **Use of detour versus lane shift signs when diverting traffic to CD roads**
- **Phasing of the construction activities**

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Possible Improvements to the TMP Guidelines, Work Area Protection Manual, And the Work Zone Traffic Control Training

- **Additional emphasis on accommodating pedestrians in work zones**
- **Use of only corrugated plastic or aluminum/plastic laminate sign substrates for portable sign stands in night-time work zones**
- **Developing guidance/TTC Figure on diverting traffic to CD roads**
- **Development of a TMP course**

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Field Changes to TMPs'/TTC Plans

Examples of “Adjustments” to a TMP/TTC Plan:

- **Use of a Portable Changeable Message Sign for additional advance warning to motorists**
- **Relocating advanced warning signs due to current site conditions**
- **Using Drums/Barrels (Group 2 channelizing devices) in place of cones (Group 1 channelizing devices)**

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MOT PLAN FOR TASK WORK ORDER 045-D9-09007821
 RTE-29 SB LANE 1 & 2 (38.85037, -77.34458)

CREATED
 8/13/2008

SPEED
 LIMIT
 45



NOTES:
 ADVANCE WARNING
 SIGN SPACING: ~300'
 RWA SIGN ON RIDGE TOP RD.
 RWA SIGN ON FOREST HILL DR.
 SHOULDER TAPER: N/A
 TAPER 1: 500' (STARTS AT
 INTERSECTION)
 BUFFER: INSUFFICIENT SPACE
 FOR A BUFFER
 END TAPER: 100'
 TOTAL NUMBER OF LANES: 3
 TOTAL NUMBER OF LANES
 CLOSED TO TRAFFIC: 2
 TOTAL NUMBER OF LANES
 OPEN TO TRAFFIC: 1
 WWAP REFERENCE: 12.0, 13.0 &
 14.0
 NIGHT / DAY
 VSP REQUIRED: YES / NO



DESIGNED BY: David Newman
 REVIEW BY: Jon Cope

Field deviations shall be documented and
 included with final inspection package!

SCALE IS APPROXIMATE

VDOT REVIEW COMPLETED BY: _____
 VDOT COMMENTS:

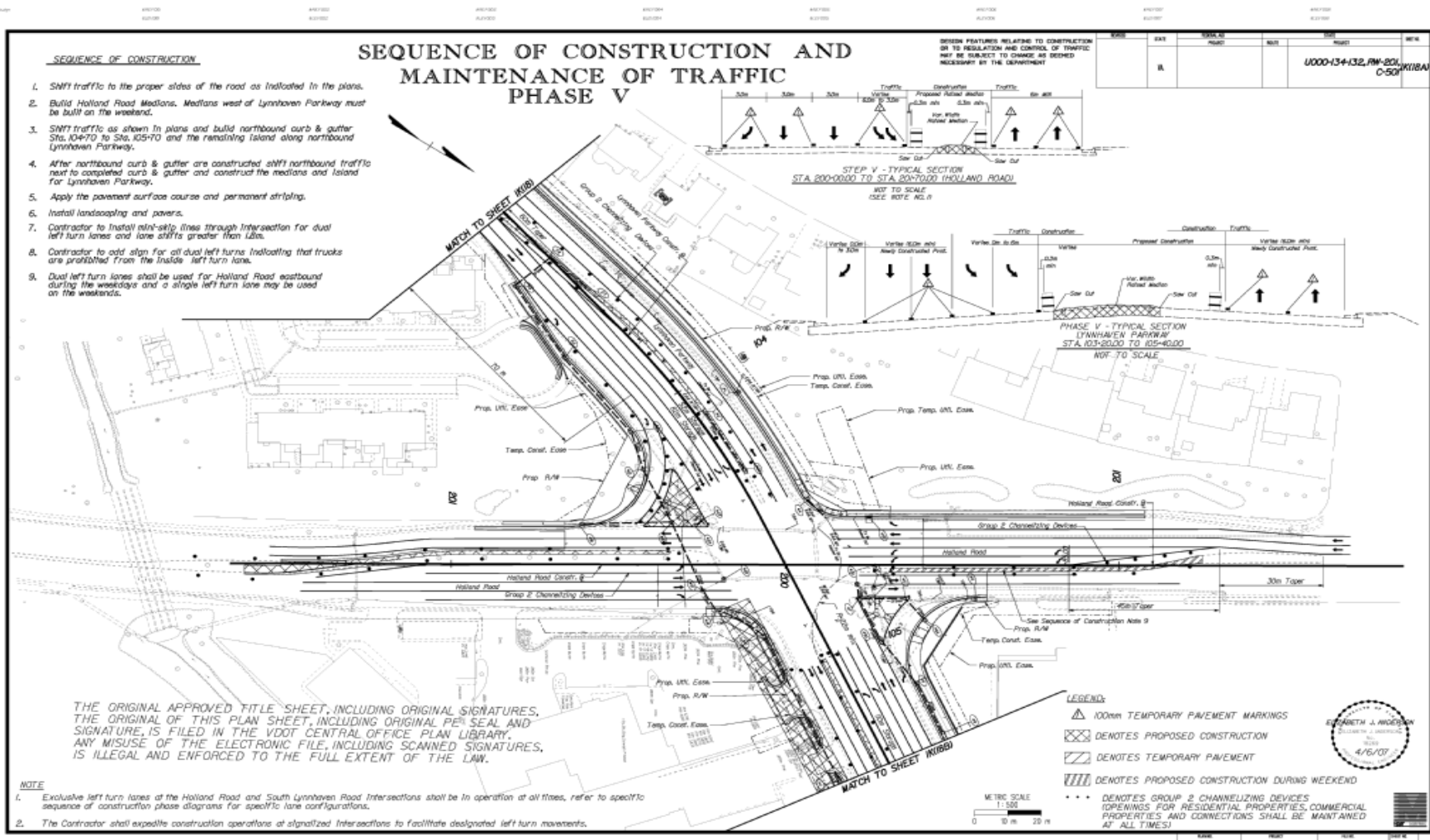
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Field Changes to TMPs'/TTC Plans

Examples of “Changing/Revising” a TMP/TTC Plan:

- **Changing the phasing of the construction activities**
- **Changing the type of temporary traffic control to be implemented**
- **Using Traffic Barrier Service Concrete in lieu of Group 1 or Group 2 channelizing devices**

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Field Changes to TMPs'/TTC Plans

Current Guidance on Field Changes to a TMP/TTC Plan

- **“Adjustments” to the TMP/TTC Plan typically:**
 - **Within the “Option” or “Guidance” statements in the Virginia Work Area Protection Manual or the MUTCD for the type of TTC specified in the plan**
 - **Will require the approval of the “Engineer”**
 - **Will not require “Signing & Sealing” by a Professional Engineer**

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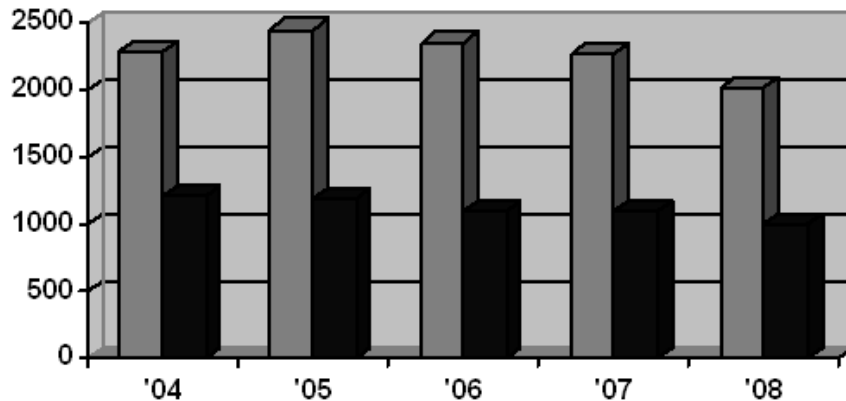
Field Changes to TMPs'/TTC Plans

Current Guidance on Field Changes to a TMP/TTC Plan

- **“Changes” to the TMP/TTC Plan typically:**
 - Are not covered by the “Option” or “Guidance” statements in the Virginia Work Area Protection Manual or the MUTCD for the type of TTC specified in the plan
 - Changes the type of temporary traffic control specified in the plans
 - Changes based on “Engineering Judgment”
 - Will require “Signing & Sealing” by a Professional Engineer

Work Zone Crashes, Injuries and Fatalities on State Maintained Roadways

Crashes: 2012 (11.3% Decrease over 2007 figure of 2268)
Injuries: 1001 (9.2% Decrease over 2007 figure of 1102)
Fatalities: 6 (45.5% Decrease over 2007 figure of 11)



■ Crashes
 ■ Injuries

2004 – 2278 Crashes/ 1214 Injuries
2005 – 2443 Crashes/1187 Injuries
2006 – 2350 Crashes/1098 Injuries
2007 – 2268 Crashes/1102 Injuries
2008 – 2012 Crashes/1001 Injuries

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Additional Information on Virginia's Implementation of the Federal Rule for Work Zone Safety and Mobility contact:

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