Work Type Definition

14.4 Temporary Traffic Control Plan Design

Description

A temporary traffic control plan includes traffic control strategies (such as detours, lane closures, worker protection, shifts and bypasses, road closures, etc.) utilizing signs, pavement markings, signals, lighting and intelligent transportation systems for all modes of traffic (including bicycles and pedestrians).

Temporary Traffic Control Plan Design projects are categorized by levels of complexity. Listed below are typical impacts or traffic control methods for each of the levels. It is highly recommended that District Traffic staff be consulted to determine which consultant level to utilize.

Level 1 [Highly Complex]

- Urban Freeway
- Major Bridge Crossing
- Multi stage
- Lane shifts / reductions
- Temporary pavement markings
- Temporary barrier(s) with attenuation
- Road / ramp closures
- Detours
- Median cross overs
- Pedestrian and bike impacts, including bypasses, closures and detours
- Americans with Disability Act (ADA) upgrades with significant pedestrian route impacts
- Business impacts, including business signing design and placement
- In-place signing modifications (ground mounted and overhead)
- Complex Intelligent Work Zone applications

Level 2 [Moderately Complex]

- Rural Freeway/Expressway
- Multi and single stage
- Lane shifts / reductions
- Temporary pavement markings
- Temporary barrier(s) with attenuation
- Road / ramp closures

- Detours
- Pedestrian and bike impacts, including bypasses, closures and detours
- Americans with Disability Act (ADA) upgrades with limited pedestrian route impacts
- Business impacts, including business signing design and placement
- In-place signing modification (ground mounted and overhead)
- Simple Intelligent Work Zone applications

Level 3 [Simple]

- Single stage
- Mill and Overlay
- Short term / intermediate lane / shoulder closures
- Road closures
- Detours

Note: Pre-qualification in Level 1 includes pre-qualification for Levels 2 and 3. Pre-qualification in Level 2 includes pre-qualification for Level 3.

Standards and Specifications

Standards and specifications required for a project under this work type may include the following:
A. Minnesota Statutes 169
B. MN Manual on Uniform Traffic Control Devices (MN MUTCD)
C. MnDOT Traffic Engineering Manual (TEM)
D. MnDOT Standard Specifications for Construction and Technical Memo's
E. MnDOT Boiler Plate Special Provisions
F. Transportation Management Plan (TMP)
G. MnDOT Standard Signs Manual

Provided by Consultant

Deliverables to be supplied by the consultant for a project may include the following:
A. The Plans and Engineer's Estimate will be accurate and in accordance with all Federal and Minnesota State standards.
B. Traffic Control Title Sheet, Traffic Control Pay Item Tabulation Sheet, Statement of Estimated Quantities (SEQ), Traffic Control Tabulation Sheet, Special Sign Details (if appropriate), and relevant traffic control plates, plans, details, and typicals (if appropriate),
C. Roadway Layouts – including staging, relevant in place signing & pavement markings, temporary signing and pavement markings, detours, pedestrians and bike accommodations.
D. The deliverables will use the proper formats, symbols, abbreviations, etc.
E. Plan sheets must be provided in hard copy and Microstation electronic files with proper level assignments.
F. Text documents must be provided in Microsoft Word format.
G. Spreadsheets must be provided in Microsoft Excel format.

H. Relevant special provisions.
I. Transportation Management Plan (TMP).

Work Type Submittal Requirements

A consultant firm becomes pre-qualified based on the qualifications of the personnel that are employed by the firm.

Applicants pre-qualified at a given level may advance to the next level by submitting a new traffic control plan of the appropriate level meeting the requirements for that level.

Key Personnel Requirements

Minimum Number of Staff

A. At least one Civil Engineer, having demonstrated experience in the activities normally associated with the category and level under consideration.

Professional Certification / Licensure

A. Must be a licensed Civil Engineer in the State of Minnesota.

Work Type Submittal Requirements

Resume and Relevant Project Experience Form - Form PQ1 [Submit in Microsoft Word format]

A. Complete Parts 1, 1A, 2 and 3 of Form PQ1
- **Part 1:** Fill out general information, name(s) of personnel, identify which level (1, 2, or 3) each applicant is applying.
- **Part 1A**: For each person submitted, satisfactory experience must be demonstrated on at least two complete temporary traffic control plans (supervised and signed by qualifying staff) during the past five years and included in Part 2. **Multiple applicants cannot be submitted for the same plan.**
- **Part 2:** Project Examples listed must correlate to those described below in "Project Example Requirements."

Project Example Requirements [Submit in PDF format]

A. Submit at least one example of a temporary traffic control plan completed in the last five years by key personnel. Example must include:
- Project description
- Period of performance of the project(s)
- Date of completion
- Individual roles and responsibilities for the project

- Plans should include signature of the applicant, or an affidavit stating that the applicant designed and accepts responsibility for the plan.

Proof of Certification / Licensure [Submit in PDF format]

A. Provide a current copy of the applicable Professional Certification/ Licensure.

Work Type Submittal Instructions

Submit **5** flash drives that includes the following individual files or folders in this order:

A. Resume and Relevant Project Experience Form - Form PQ1 [Submit in Microsoft Word format]
B. Project Example Requirements [Submit in PDF format]
- This should be a folder that includes individual files clearly named according to Part 2 of Form PQ1.
C. Proof of Professional Certification/Licensure [Submit in PDF format]

Each file should be saved in the format identified above.