



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Design Memorandum No. 16-06 **Technical Advisory**

March 8, 2016

TO: All Design, Operations, and District Personnel, and Consultants

FROM: /s/David Boruff
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Traffic Engineering Division

SUBJECT: Portable Signals

REVISES: *Indiana Design Manual Section 83-5.0*

EFFECTIVE: Lettings on or after September 1, 2016

The referenced section of the *Indiana Design Manual* and section 801 of the *Standard Specifications* have been revised to allow the use of portable signals to control one lane, two-way traffic as part of a maintenance of traffic plan.

Concurrence

The determination to use portable rather than fixed signals will be made by the designer with concurrence from the district Traffic Office. Prior to including a portable signal in a contract, the designer must complete the Temporary Traffic Signal Type Determination form and submit it to the district Traffic Engineer for concurrence. The form is available from the Department's Editable Documents webpage, under Traffic Maintenance. The form should be submitted to the district Traffic Engineer as early as possible in the plan development process but at least prior to the Stage 1 plan review.

Design

The designer is responsible for developing the signal timing plan and showing placement locations on the plans. When portable signals will be used, the signal phasing and timing plan should be in accordance with the FHWA *Signal Timing Manual*. The Temporary Signal Timing Plan, RSP 801-T-212, must be completed and included in the contract documents.

For a consultant–designed project, the consultant must be prequalified in Category 10.1, Traffic Signal Design.

For an in-house project, the designer should discuss the phasing and timing plan with district Traffic Engineer or the Traffic Management Division Signal Systems Engineer.

The revised *Indiana Design Manual* section includes the design parameters for portable signals and is an attachment to this memo.

Approved Material List

Portable Signals must be selected from the Department’s list of approved Portable Signals. Several products are currently under review, and the list will be updated accordingly.

Pay Items

New pay items have been created to differentiate fixed temporary traffic signals from portable signals. A supplemental description noting the location, by intersection or route number and reference post for one lane, two-way operations must be included with the use of the fixed temporary signal or portable signal pay item. The cost of vehicle detection is included in the cost of the signal, regardless of type.

Lettings Prior to September 1, 2016	Lettings On or After September 1, 2016
[None]	Portable Signal, 801-12081, LS
Temporary Traffic Signal, 801-53072, LS	Fixed Temporary Signal, 801-12082, LS
Temporary Traffic Signal with Detectors, 801-01851, LS	

Questions regarding the use of portable temporary traffic signals should be directed to the Office of Traffic Administration, Dave Boruff at dboruff@indot.in.gov.