

Designer Note: This special provision may be used with Highway Standards 701316 and 701321 on two-lane two-way roadways with residential driveways in the work zone where two-way traffic will be maintained over one lane of pavement and controlled by a temporary bridge traffic signal system.

## **RESIDENTIAL DRIVEWAY TEMPORARY SIGNAL (BDE)**

Effective: November 1, 2025

Description. At the Contractor's option, residential driveway temporary signals (RDTs) may be used in place of temporary bridge traffic signals to control residential driveways within the one-lane two-way portion of the work zone. Work shall be according to Article 701.18(b), except as follows:

Materials. Materials shall be according to the following Articles/Sections of the Standard Specifications:

<u>Item</u>	<u>Article/Section</u>
(a) Light Emitting Diode (LED) Traffic Signal Head .....	1078

## **CONSTRUCTION REQUIREMENTS**

General. The RDTs shall be a self-contained mobile unit that includes a single vertical mast supporting a single three-section signal face comprising of a 12 in. (300 mm) diameter steady circular red indication on top and two adjacent 8 in. (200 mm) or 12 in. (300 mm) diameter flashing yellow arrow indications below. The device shall include a NO TURN ON RED sign (R10-11b) with a regulatory plaque displaying the legend TURN ONLY IN DIRECTION OF ARROW according to Attachments IA-23-2.1 and 2.2 of FHWA Memorandum "MUTCD – Interim Approval for Optional Use of Residential Driveway Temporary Signal (IA-23)".

The RDTs shall continuously operate using a self-contained power source over an ambient temperature range between -30°F (-34°C) and 120°F (48°C).

The RDTs shall be installed secure and level according to Attachment IA-23-1 of FHWA Memorandum "MUTCD – Interim Approval for Optional Use of Residential Driveway Temporary Signal (IA-23)".

The RDTs shall be coordinated, and have the capability to communicate, with the temporary bridge traffic signal system controlling main roadway traffic. During each green interval of the main roadway, the RDTs shall display a flashing yellow arrow indication corresponding to the direction of the main roadway traffic movement. A steady yellow change interval shall follow the flashing yellow arrow interval for the RDTs. The system shall be programmed such that driveway vehicles can turn before, within, and after the main roadway traffic platoon. The all-red interval of the temporary traffic signal shall be programmed to account for the addition of driveway vehicles to the platoon.

The entire traffic signal system including RDTs units shall be equipped with a malfunction management system that can communicate with all signal units. In the event of any fault at any

signal unit including but not limited to loss of communication or display of conflicting signal indications, the entire system shall be placed in flashing mode. RDTS units shall flash red when operating in flashing mode.

The RDTS and temporary traffic signal system shall be verified to function properly before closing any lanes.

When not utilized to direct traffic, the RDTS shall be treated as non-operating equipment according to Article 701.11.

Basis of Payment. This work will not be paid for separately but shall be included in the cost of temporary bridge traffic signals according to Article 701.20(c).