

**KANSAS DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION TO THE
STANDARD SPECIFICATIONS, EDITION 2007**

SECTION 805

WORK ZONE TRAFFIC CONTROL AND SAFETY

Page 800-11, subsection 805.1. Add the following to the BID ITEMS list:

Barricade (Type III) (Fixed)	Each
Pavement Marking (Temporary)	
4" Broken (8.2 ft.) (Paint or * Tape)	Sta./Line
4" Broken (3.3 ft.) (Paint or * Tape)	Sta./Line
4" Solid (Paint or * Tape)	Sta./Line
4" Dotted Extension (Paint or * Tape)	Sta./Line
Symbol (Paint or * Tape)	Each
*Type (Type I or II)	

Page 800-11, subsection 805.2. Add the following to the list of materials:

Automated Flagger Assistance Devices **DIVISION 1700** (this specification)

Page 800-12, subsection 805.3a. Add the following after the second paragraph, "Use reasonable...":

All workers shall wear high visibility garments (ANSI Class II day/Class III night) while working within the right-of-way limits on KDOT projects.

Page 800-13, subsection 805.3a. Delete the sixth paragraph, "The Engineer will establish...." and replace with the following:

The Engineer will establish all work zone speed limits.

For pilot car operations, maintain one-way traffic and restrict speeds to a maximum of 40 miles per hour in the work zone and restrict the speed of the operation in the vicinity of workers to 20 miles per hour until the last car in the pilot car queue exits the vicinity of the workers.

All other work zone speed limits will be maintained as determined by the Engineer.

Page 800-14, subsection 805.3g. Delete subsection 805.3g. and replace with the following:

g. One-way traffic/Flaggers. Provide two-way traffic on a normal roadway whenever practicable, avoiding one-way traffic where reasonable.

When one-way traffic is required, provide courteous, competent flaggers, able to communicate effectively with the traveling public, to direct traffic in a one-way traffic operation. Use flaggers that know and observe all regulations prescribed for flaggers. The latest edition of the KDOT Flagger Handbook will apply. Copies may be obtained from the Engineer. Equip flaggers with hand signaling signs mounted on suitable staffs, (minimum 60 inches as measured from the bottom of the sign). Flaggers shall wear reflectorized headgear and an ANSI Class II vest while on duty. For night time flagging conditions, ANSI Class E reflectorized pants are also required for flaggers.

The Contractor may use uniformed enforcement officers as flaggers in lieu of the above uniformed flaggers. When used as a flagger by the Contractor, law enforcement officers shall wear their official uniform with badge and appropriate ANSI Class II/III garments.

When one-way traffic is approved, temporary traffic signals may be used in lieu of flaggers to control traffic, when approved by the Engineer. Continued use will be based upon satisfactory performance of the system to effectively move traffic through the area.

Flaggers may not be required if satisfactory automated flagger assistance devices, prequalified under this specification, are provided. The maximum distance between 2 AFADs controlling opposing directions of traffic with no side incursions is 1000 feet. Do not use AFADs in night time conditions.

Operate the AFAD by a flagger trained in the operation of the AFAD. Do not leave AFADs unattended at any time when they are in operation in the work zone. A single flagger may simultaneously operate 2 AFADs when:

- The flagger has an unobstructed view of the AFADs; and
- The flagger has an unobstructed view of approaching traffic in both directions.

Page 800-14, subsection 805.3h. Delete the second paragraph and replace with the following:

Pilot cars shall be approved vehicles, should carry the Contractor's company insignia, and be equipped with signs reading "Pilot Car-Follow Me" mounted a minimum of 1 foot above the top of the vehicle and clearly visible from both directions.

Page 800-14, subsection 805.3j. delete TABLE 805-1 and replace with the following:

TABLE 805-1: TEMPORARY PAVEMENT MARKING***	
Type	Use
Type I**	Final surface (new pavement or any surface that will remain when the project is complete).
Type II*	Any surface that is to be removed or covered by future construction.
Type IIA*	Temporary broken lines on intermediate asphalt surfaces, only.

*When Type II or Type IIA is specified, the Contractor has the option to use either Type I or Type II tape or Paint.

**When Type I is specified and in areas where permanent pavement marking will be placed in the same layout/location as the temporary markings, the Contractor has the option to use either Type I tape or Paint. Do not use Paint in areas where markings will not follow the same layout/location.

*** Do not use Paint on Ultrathin Bonded Asphalt surfaces.

Page 800-15, subsection 805.3j. replace paragraph 4 with the following:

When painting is used, comply with **SECTION 807** (07-08026 latest revision).

Page 800-16, TABLE 805-4, delete TABLE 805-4 and replace with the following:

TABLE 805-4: SURFACE DROPOFF OR UNEVEN LANES	
Condition	Action
The drop-off between driving lane and any adjacent surface is 2 inches or less	Recommend the use of Uneven Lane signs (W8-11 with W7-3A signs.)
The drop-off between driving lane and any adjacent surface is between 2 to 4 inches	Construct a 1:1 or flatter slope wedge (either temporary or permanent, as required) against the pavement edge, using asphalt millings, earthen material or other materials approved by the Engineer; or Use Shoulder Drop-off Signs (W8-9A and W7-3A) and/or Uneven Lane Signs (W8-11 with W7-3A) as part of the Traffic Control Plan. Place the W8-9A and W7-3A signs and/or (W8-11 and W7-3A) signs at the beginning of the project and at each intersecting State highway. Remove or cover the signs when not applicable.
The drop-off between driving lane and any adjacent surface is greater than 4 inches	Construct a 3:1 or flatter slope wedge (either temporary or permanent, as required) against the pavement edge, using asphalt millings, earthen material or other materials approved by the Engineer. For unusual and justifiable conditions the Engineer may approve the use of channelizing devices instead of a wedge at the pavement edge. On high speed roadways (roadways with posted speed limits greater than 45 MPH), space the channelizing devices so that the distance (in feet) between devices is approximately 2 times the posted speed limit. On low speed roadways and urban streets (roadways with posted speed limits less than or equal to 45 MPH), space the channelizing devices so that the distance (in feet) between devices is approximately equal to the speed limit. Do not leave drop-offs greater than 4 inches unprotected overnight without a wedge or channelizing device. To the extent reasonable, provide an obstruction free recovery area.

Page 800-17, subsection 805.4c.(4). Add the following:
 The Engineer will measure each Barricade (Type III) (Fixed).

Page 800-18, subsection 805.4c.(8) delete the first paragraph on the page "When the Engineer authorizes...." |

Page 800-18, subsection 805.4c.(9). Add the following to the end of the first paragraph:
 If the Contractor is allowed to use AFADs in lieu of flaggers, AFADs will not be paid for separately, but will be considered subsidiary to the other items of the contract.

Add a new SECTION in DIVISION 1700:

AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADs)

1.0 DESCRIPTION

This specification covers automated flagger assistance devices (AFADs) for use in traffic control zones. These devices are designed to be remotely operated either by a single flagger at one end of the TTC zone, or at a central location or by separate flaggers near each device's location.

There are two types of AFADs:

- An AFAD that uses a remotely controlled STOP/SLOW sign on either a trailer or a movable cart system to alternately control flow of traffic.
- An AFAD that uses remotely controlled red and yellow lenses and a gate arm to alternately control flow of traffic.

2.0 REQUIREMENTS

Refer to TE710.

3.0 TEST METHODS

Test AFADs as specified by NCHRP Report 350.

4.0 PREQUALIFICATION

a. Initial Prequalification. Provide the following to the Traffic Control Engineer:

- Product Data Sheets
- Manufacturer's Literature
- NCHRP Report 350 crashworthy certification

Supply these items to:

Eisenhower State Office Building
Attn: Traffic Control Engineer
700 SW Harrison, 6th floor
Topeka, KS 66603-3745

The Bureau of Materials and Research will maintain a list of prequalified AFADs.

b. Requalification. Annual requalification is required. Send in the information stated in **4.0a.** and document any changes/improvements in the AFAD prior to March 30th of each year. If no information is received, the AFAD will be removed from the prequalified list.

5.0 BASIS OF ACCEPTANCE

- a. Prequalification as set forth under **4.0.**
- b. Receipt and approval of a Type C certification as specified in **DIVISION 2600.**
- c. Satisfactory performance in the field.