616.10a (TA-10a) LANE CLOSURE ON TWO-LANE ROAD USING AUTOMATED FLAGGER ASSISTANCE DEVICES (AFAD) WITH RED AND AMBER SIGNAL SYSTEM - DE/CM

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
0-35	200	-	-	-	280	-	40
40-45	350	-	-	-	400	-	80
50-55	500	-	-	-	560	-	80
60-70	1000	-	-	-	840	-	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.   2. Lane taper length based on 12 ft. (standard lane width) offset.

NOTES:

A single flagger may simultaneously operate two AFADs or may operate a single AFAD on one end of the work zone while being a flagger on the other end. To use AFADs, the flagger shall have an unobstructed view to the AFAD and approaching traffic and the AFADs may be separated a maximum length of 1/2-mile. A greater length shall be approved by the engineer.

All AFAD operators shall be trained as a certified flagger with knowledge of the use of AFADs.

AFADs shall be removed when not in use.

If the AFAD fails, reference EPG 616.8.10 (TA-10) Lane Closure on Two-Lane Highways Using Flaggers. The BE PREPARED TO STOP sign may be used with the flagger to finish the same day operation. The FLAGGER AHEAD sign shall be used until the AFAD is operable.
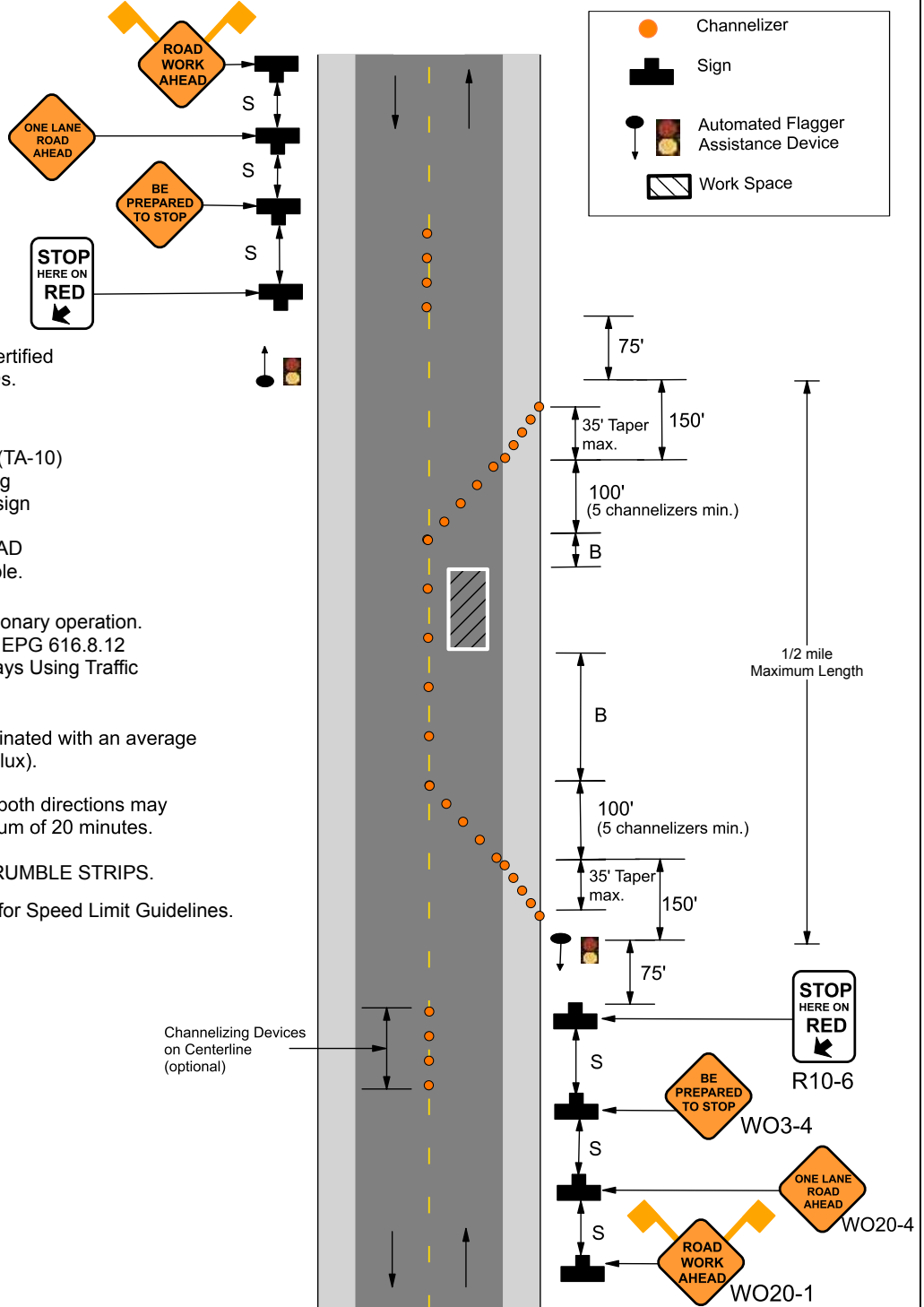
AFADs shall not be used for long-term stationary operation. For long-term stationary operation, refer to EPG 616.8.12 (TA-12) Lane Closure on Two-Lane Highways Using Traffic Control Signals.

If used at night, the AFAD site shall be illuminated with an average maintained intensity of 0.6 footcandles (6.5 lux).

When a temporary road closure is needed, both directions may be stopped at the same time up to a maximum of 20 minutes.

If rumble strips are used, review 616.6.87 RUMBLE STRIPS.

See EPG 616.12 Work Zone Speed Limits for Speed Limit Guidelines.

Channelizer

Sign

Automated Flagger Assistance Device

Work Space

ROAD WORK AHEAD

ONE LANE ROAD AHEAD

BE PREPARED TO STOP

STOP HERE ON RED

S

S

S

75'

35' Taper max.

150'

100' (5 channelizers min.)

B

1/2 mile Maximum Length

B

100' (5 channelizers min.)

35' Taper max.

150'

75'

Channelizing Devices on Centerline (optional)

STOP HERE ON RED

R10-6

BE PREPARED TO STOP

WO3-4

S

ONE LANE ROAD AHEAD

WO20-4

S

ROAD WORK AHEAD

WO20-1

S

TA - 10a

1/16