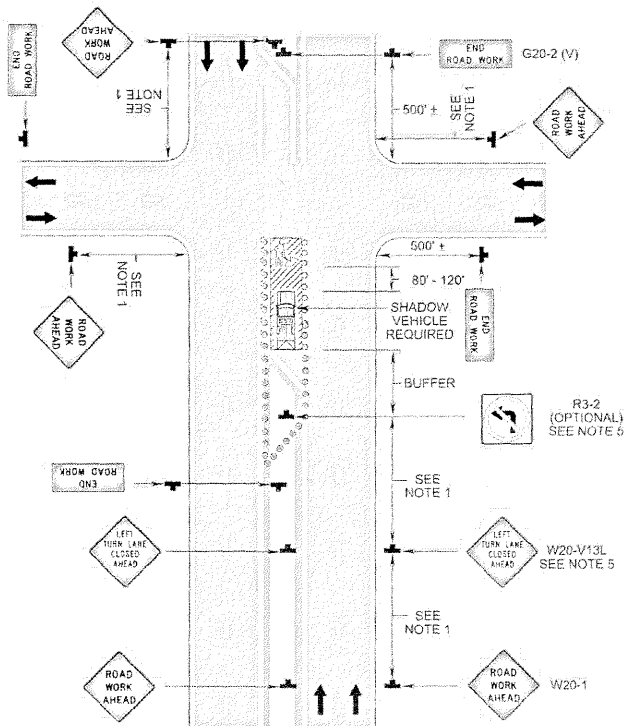


Turn Lane Closure Operation  
(Figure TTC-29.1)



13 TURN LANE CLOSURE OPERATION DETAIL  
SCALE: N.T.S.

Typical Traffic Control  
Flagging Operation at a Signalized Intersection  
(Figure TTC-30.1)

NOTES

Guidance:

- The control of traffic through the intersection in order of preference should be:
  - Obtain the services of law enforcement personnel.
  - Divert the effective routes to other roads and streets as approved and directed by the Regional Traffic Engineer.
  - Place a state certified flagger on each leg of the intersection with the approved signing as shown.
- Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph. For urban streets sign spacing distance should be 225'-275' where the posted speed limit is 30 to 35 mph, and 100'-200' where the posted speed is 25 mph or less.

Standard:

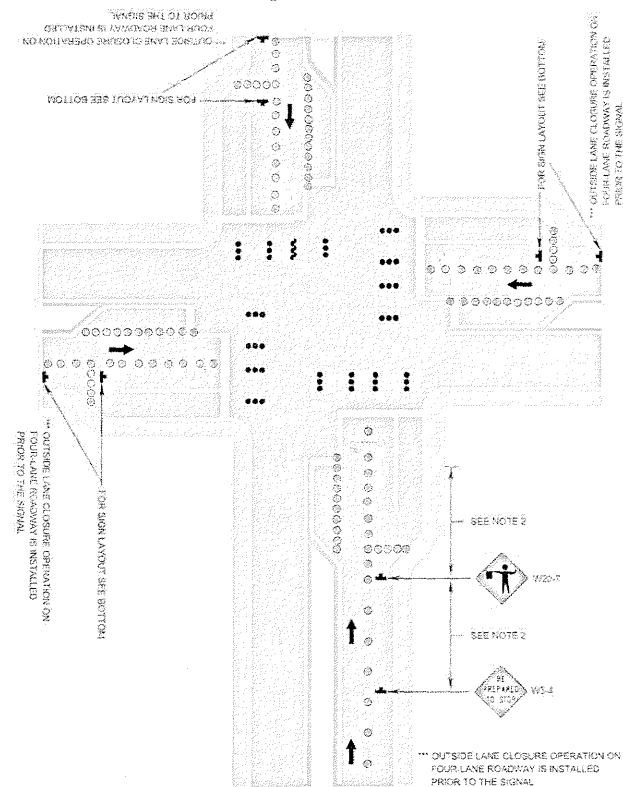
- For flagging operations, a stationary lane closure shall be installed in advance of the signalized intersection for all approaches with two or more lanes for through traffic.
- For flagging operations, all turn lanes at the intersection shall be closed.
- Electrical power supply to signals shall be turned off while flaggers are controlling traffic through the intersection.
- To prevent accidental intrusion into the flagger station, cone spacing shall not exceed 10' on centers from the graphic flagger sign to the flagger station. Cones shall be installed in the closed lane, perpendicular to traffic, prior to the flagging station.
- A lead flagger shall be assigned to control all flagger operations. One flagger shall be stationed to control each approach of the intersection. Flaggers shall alternate right-of-way to traffic such that traffic moves through the intersection one approach at a time.
- Flagger stations shall be illuminated during planned night time work operations with a minimum of horizontal luminance of 5-foot candles (50 lux) (see Section 6E.08).
- On divided highways having a median wider than 8', right and left sign assemblies shall be required.

Option:

- RIGHT TURN LANE CLOSED AHEAD (W20-V13R) and/or LEFT TURN LANE CLOSED AHEAD (W20-V13L) sign(s) may be used when closing the turn lanes.
- For a high volume of turning movements, additional traffic control devices, such as signs (graphic NO LEFT TURN (R3-2), NO RIGHT TURN (R3-1), RIGHT TURN LANE CLOSED AHEAD (W20-V13R) and/or LEFT TURN LANE CLOSED AHEAD (W20-V13L)), cones and vehicles may be used.
- Traffic signals may be on the flash mode when traffic through the intersection when controlled by a law enforcement officer.
- Travel and turn lanes may remain open if a law enforcement officer is controlling traffic through the intersection.

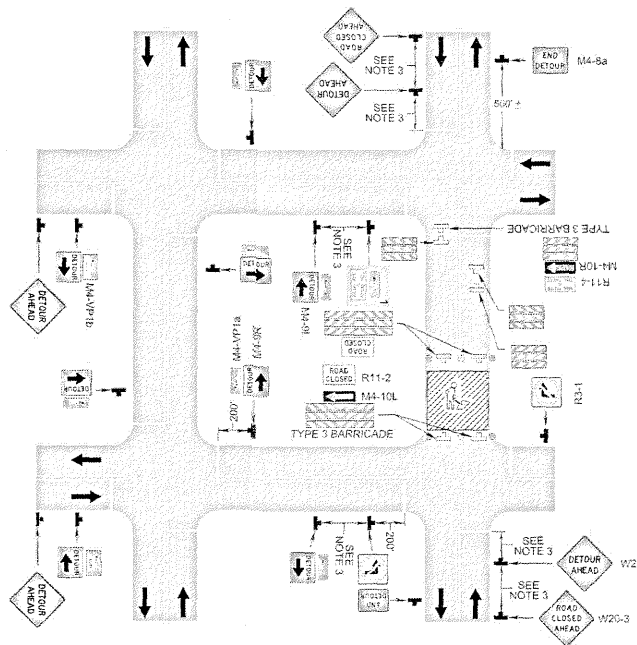
1: Revision 1 - 4/1/2015

Flagging Operation at a Signalized Intersection  
(Figure TTC-30.1)



14 FLAGGING OPERATIONS AT A SIGNALIZED INTERSECTION DETAIL  
SCALE: N.T.S.

Street Closure Operation with Detour  
(Figure TTC-34.1)



1: Revision 1 - 4/1/2015

15 STREET CLOSURE OPERATIONS WITH DETOUR DETAIL  
SCALE: N.T.S.

Typical Traffic Control  
Sidewalk Closure and Bypass Sidewalk Operation  
(Figure TTC-35.0)

NOTES

Standard:

- When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.
- Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.
- Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.
- Temporary markings should be considered for operations exceeding three days in duration.

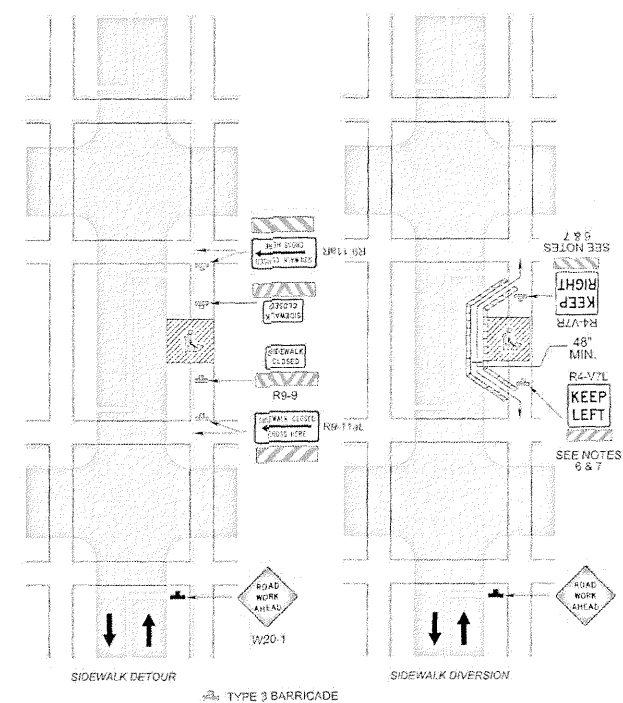
Option:

- Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
- For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.
- Signs, such as KEEP RIGHT (R4-V7R) and KEEP LEFT (R4-V7L), may be placed along a temporary sidewalk to guide or direct pedestrians.

Standard:

- All sidewalk closures shall be closed with Type 3 Barricades.

Sidewalk Closure and Bypass Sidewalk Operation  
(Figure TTC-35.0)



16 SIDEWALK CLOSURE AND BYPASS SIDEWALK OPERATION DETAIL  
SCALE: N.T.S.

CHVA  
WESTERN VIRGINIA  
WATER AUTHORITY  
OFFICE OF THE DIRECTOR  
3000  
10-21-19  
TRAFFIC  
Designed E  
MBH  
Issue Date  
3-30-19