



National Committee on Uniform Traffic Control Devices

13236 North 7th Street, Suite 4-259, Phoenix, Arizona 85022
Phone/Text: 231-4-NCUTCD (231-462-8823)
E-mail: secretary@ncutcd.org Website: <https://ncutcd.org>

Item No.: 25A-TTC-06

NCUTCD RECOMMENDATION FOR CHANGES TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

COMMITTEE / TASK FORCE: Temporary Traffic Control Technical Committee
ITEM NUMBER: 25A-TTC-06
TOPIC: Outside Lane Closure on a Multi-Lane Circular Intersection
ORIGIN OF REQUEST: FHWA MUTCD Team
AFFECTED SECTIONS OF MUTCD: Chapter 6P. Typical Applications
Typical Application 27d

DEVELOPMENT HISTORY:

Approved by TTC TC: 01/08/2025, 06/11/2025
Approved by Roundabout JTF: 01/08/2025, 06/12/2025
Approved by NCUTCD Council: 06/13/2025

After publication of the 2023
MUTCD, the NCUTCD rescinded
all MUTCD prior
recommendations. This proposed
change is based on one of those
prior recommendations.

This is a recommended change to the MUTCD that has been approved by the NCUTCD Council. This proposal does not represent a revision of the MUTCD and does not constitute official MUTCD standards, guidance, or options. It will be submitted to FHWA for consideration for inclusion in a future MUTCD revision. The MUTCD can be revised only through the federal rulemaking process.

SUMMARY:

The TTC Technical Committee recommends adding a new Typical Application (TA) to Chapter 6P involving work within the circulating lanes of multi-lane roundabouts. Three new TAs involving roundabouts were added to the 11th edition of the MUTCD including “Short-Term or Short-Duration Work in a Circular Intersection”, “Flagging Operation on a Single-Lane Roundabout”, and “Inside Lane Closure on a Multi-Lane Roundabout”. The proposed new TA for “Circulating Lane Closure in a Multi-Lane Roundabout” was approved by the NCUTCD council (19B-TTC-01) but was not complete in time for to be included in the 11th Edition of the MUTCD.

DISCUSSION:

Modern roundabouts have been constructed in the United States since the early 1990’s (around 30 years). The pavement within the roundabout intersection have needed regular maintenance treatments, including pavement replacement, since originally constructed. The previous editions of the MUTCD included no guidance in Chapter 6P – Typical Applications – regarding the use of temporary traffic control for work within the circulating lanes of a modern roundabout. As a result, several states developed their own typical applications to meet these needs including Virginia DOT, Pennsylvania DOT, Oregon DOT, Washington DOT, etc.

Another industry resource for public agencies to utilize is ATSSA's document "Temporary Traffic Control for Building and Maintaining Single and Multi-lane Roundabouts", January 2013 (<https://workzonesafety.org/publication/temporary-traffic-control-for-building-and-maintaining-single-and-multi-lane-roundabouts/>).

The Temporary Traffic Control Technical Committee worked with the NCUTCD's Roundabout Joint Task Force to develop TAs that would be useful to practitioners. Most of the TAs were added to 11th Edition including: "Short-Term or Short-Duration Work in a Circular Intersection" (TA-52), "Flagging Operation on a Single-Lane Circular Intersection" (TA-53), and "Inside Lane Closure on a Multi-Lane Circular Intersection" (TA-54). Note that 24B-TTC-01 recommended renumbering these 27a, 27b, and 27c. Another TA was developed for the outside lane closure of a multi-lane roundabout. This TA named "Circulating Lane Closure in a Multi-Lane Roundabout", was the previous 19B-TTC-01 proposal approved by Council but did not make it in the 11th Edition.

RECOMMENDED MUTCD CHANGES:

The following present the proposed changes to the current MUTCD within the context of the current MUTCD language. Proposed additions to the MUTCD are shown in blue underline and proposed deletions from the MUTCD are shown in ~~red strikethrough~~. Changes previously approved by NCUTCD Council (but not yet adopted by FHWA) are shown in green double underline for additions and ~~green double strikethrough~~ for deletions. In some cases, background comments may be provided with the MUTCD text. These comments are indicated by [bracketed white text in shaded green].

PART 6 TEMPORARY TRAFFIC CONTROL

CHAPTER 6P TYPICAL APPLICATIONS

Notes for Figure 6P-27d – Typical Application 27d
Outside Lane Closure on a Multi-Lane Circular Intersection

Standard:

1. 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. See Figure 6P-29, Crosswalk Closures and Pedestrian Detours (TA-29).

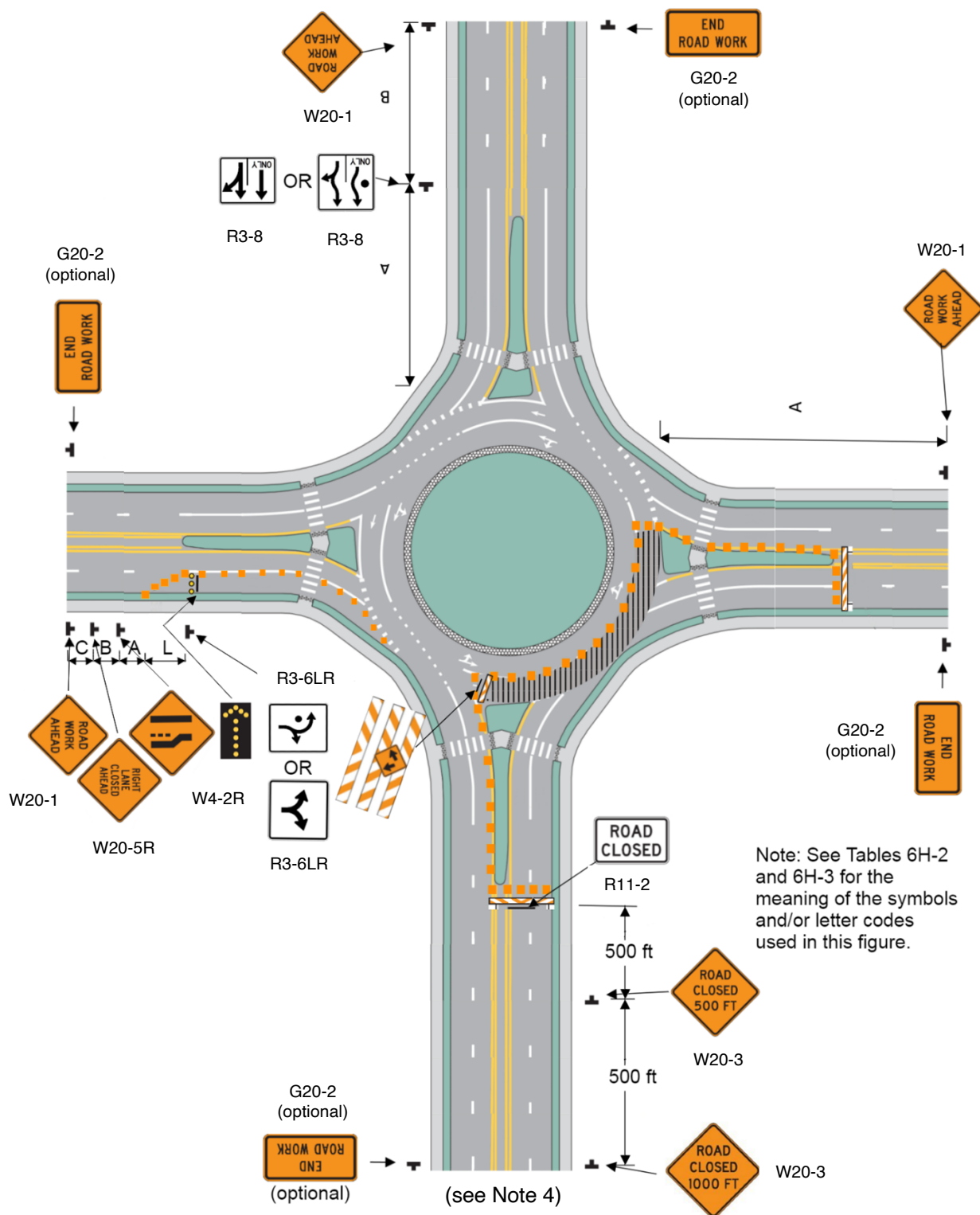
Guidance:

2. When designing the temporary traffic control and installing the channelizing devices for work activities at roundabouts, accommodations for the turning radius of wider heavy commercial vehicles should be considered.
3. Since the geometrics of the roundabout will temporarily be altered, consideration should be given to establishing a truck detour for the duration of the project.
4. For the closed approaches and for intermediate or long-term work within the circular intersection where traffic cannot be accommodated, traffic should be detoured with appropriate detour signing. (see Figure 6P-8).
5. Conflicting signs and pavement markings should be removed for long-term projects. For short-term and intermediate-term projects where this is not practical, the channelizing devices in the area where the pavement markings conflict should be placed at a maximum spacing of $1/2 S$ feet where S is the speed in mph. Temporary markings should be installed where needed.

Option:

6. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
7. Portable changeable message signs may be used as part of the temporary traffic control plan to provide clear guidance to motorists on all approaches of the roundabout.
8. Positive protection devices may be used per Section 6M.02.

Figure 6P-27d Outside Lane Closure on a Multi-Lane Circular Intersection (TA-27d)



Typical Application 27d