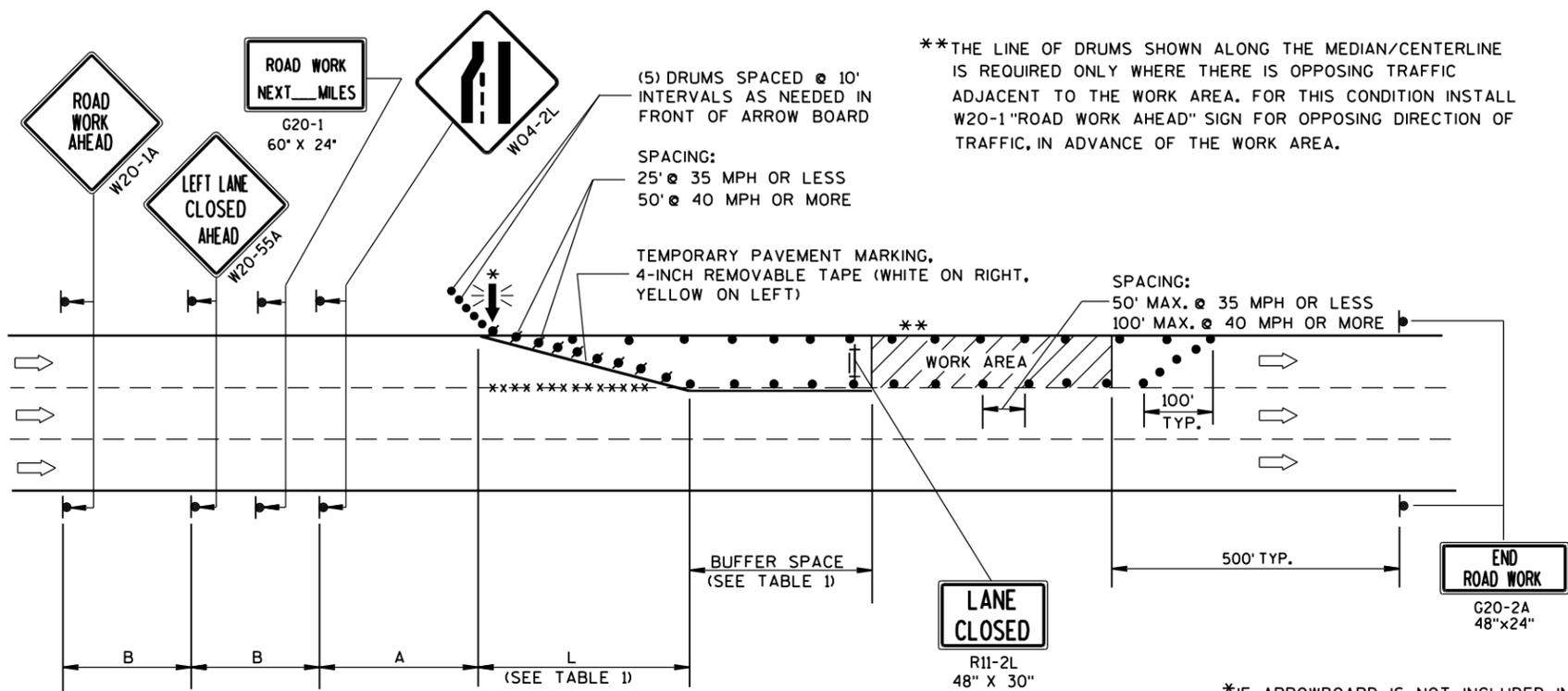


# 15D20: Traffic Control, Single Lane Closure, Non Freeway/Expressway



## GENERAL NOTES

- THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.
- THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.
- ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.
- ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
- REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.
- ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.
- W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.
- OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.
- PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.
- CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.
- BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.
- WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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TABLE 1  
TAPER AND BUFFER SPACE  
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':  
 $L = WS$  AT 45 MPH OR GREATER  
 $L = \frac{WS^2}{60}$  AT 40 MPH OR LESS  
 L = TAPER LENGTH IN FEET  
 S = NON-CONSTRUCTION SPEED LIMIT (MPH)  
 W = WIDTH OF LANE CLOSURE

## LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

**TRAFFIC CONTROL,  
SINGLE LANE CLOSURE,  
NON-FREEWAY/EXPRESSWAY**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
June 2016 /s/ Peter Amakobe Atepe  
DATE STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER  
FHWA

S.D.D. 15 D 20-4

S.D.D. 15 D 20-4

*Traffic Control, Single Lane Closure, Non Freeway/Expressway***References:**

Part 6, Manual on Uniform Traffic Control Devices (MUTCD)

[FDM 11-50-1](#)

[FDM 11-50-20](#)

**Bid items associated with this drawing:**

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
643.0100	Traffic Control (project) .....	EACH
643.0300	Traffic Control Drums .....	DAY
643.0420	Traffic Control Barricades Type III .....	DAY
643.0705	Traffic Control Warning Lights Type A .....	DAY
643.0715	Traffic Control Warning Lights Type C .....	DAY
643.0800	Traffic Control Arrow Boards .....	DAY
643.0900	Traffic Control Signs .....	DAY
646.0600	Removing Pavement Markings .....	LF
649.0400	Temporary Pavement Marking Removable Tape 4-Inch .....	LF

**Standardized Special Provisions associated with this drawing:**

<u>STSP NUMBER</u>	<u>TITLE</u>
NONE	

**Other SDDs associated with this drawing:**

<a href="#">SDD 15d15</a>	Traffic Control, Exit and Entrance Ramp Within Lane Closure
<a href="#">SDD 15d21</a>	Traffic Control, Intersection within Single Lane Closure
<a href="#">SDD 15d30</a>	Traffic Control, Sidewalk Closure (if sidewalk will be closed)

**Design Notes:**

This drawing may be used when closing one lane of a non-freeway/expressway. For single-lane closures on freeways/expressways, see SDD 15d12 and 15d3. To help determine if the Special Provisions should restrict the times of day or week when a lane may be closed, compare the vehicle capacity of the remaining open lanes to the hourly traffic volumes. If there will be intersections or ramps within the lane closure, additional traffic control details are needed. SDD 15d21 or 15d15 may be appropriate.

If the arrow board shown on the drawing is to be used, include it in the Misc. Quantities. The arrow board is recommended on roads with speeds of 35 mph or greater.

Additional warning signs may be desirable further in advance of the lane closure, especially if congestion is likely to occur (e.g. substitute "Right/Left Lane Closed xx Ft/Mile" signs for the W20-5 and W20-1 signs shown, and add W20-1 signs further in advance). On projects which spread over long distances, the G20-1 "Road Work Next x Miles" signs may be repeated at intervals of 2 or more miles, and/or beyond intersections with state or county trunk highways. Additional signs should be shown on a traffic control overview sheet or be required by Special Provision.

Closer drum spacing (e.g. 25 or 50 feet) along the buffer space and work area may be justified in urban areas, on congested roadways, along drop-offs, or during work at night. If closer spacing is desired, it may be specified on separate plan sheets or in the Special Provisions.

When computing quantities, include enough Type III barricades and signs to place a barricade and "LANE CLOSED" sign across the closed lane approximately every 1000 feet. Do not include quantities for the line of drums shown along the median/centerline unless there will be opposing traffic adjacent to the work area. For undivided roadways, do not include quantities for the signs shown on the left side of the road.

The standard size of diamond-shaped warning signs is 48" x 48". If necessary due to space constraints in urban areas, 36" x 36" signs may be used instead. If 36" x 36" signs will be allowed, indicate it in the plans, miscellaneous quantities, or special provisions.

Removing existing pavement markings and placing temporary markings are typically needed only if the lane closure will be in place for 4 or more continuous days and nights. For shorter periods, the designer may specify marking removal and temporary markings if desired. The temporary marking item 649.0100 may be used instead of removable tape if the temporary marking is not being placed on permanent pavement, especially if there will not be revisions to the marking for a subsequent stage on the same pavement surface.

**Contact Person:**

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