

# Multi-Lane Undivided Roads

A roadway having two or more lanes of traffic traveling in the same direction with no physical barriers separating the opposing traffic lane.

*\*Drawings Not To Scale*



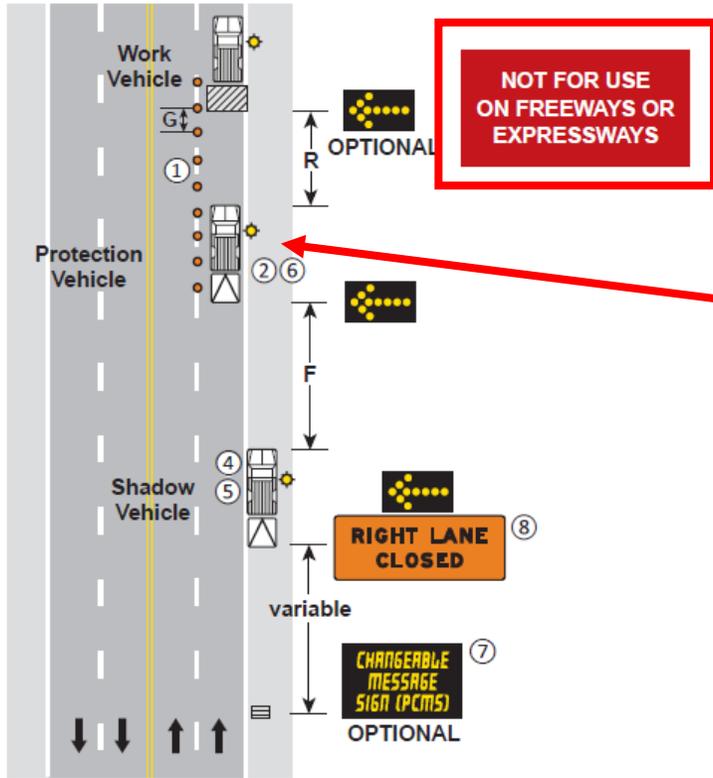
## MULTI-LANE UNDIVIDED ROADS

	MOBILE 15 Minutes or Less	SHORT DURATION 1 Hour or Less	SHORT TERM 12 Hours or Less	INTERMEDIATE TERM 3 Days or Less
Work Vehicle Parked on Shoulder	6		8	
Work on Shoulder	9		8	
Work off Shoulder	8			
Work off Roadway	10			
Shoulder or Parking Lane Closure	8			
Partial Shoulder Closure for Trailer Mounted Devices	7			
<b>Lane Closures</b>				
Mobile/Short Duration	41			
Near Intersection	63	33, 34, 45, 46, 47		
Left Lane	43, 46			
Right Lane	42, 45			
Turn Lane	33, 34			
Double Lane	44, 47			
Temporary Road Closure (15 minute intervals)	48			
Temporary Road Closure	32			
Sidewalk Closure	88, 89			
Bike Lane Closure	87			
Crossroad and Confirmation Signing	35			

**See Two-Way Left Turn Lane Section for layouts appropriate for Two-Way Continuous Left Turn Lanes.**

**NOTES:**

- ① Channelizing devices may be omitted if the operation moves at least the Decision Sight Distance (D) every 15 minutes or less (mobile operation).
- ② May use additional Protection Vehicle (not shown on layout) to close shoulder in advance of Work Vehicle.
3. A Shadow Vehicle or Protection Vehicle operating totally or partially in a traffic lane should be equipped with a TMA.
- ④ The Shadow Vehicle may encroach into the traffic lane when the shoulder is too narrow to drive on.
- ⑤ The Shadow Vehicle may be omitted on roadways 40 mph or less.
- ⑥ If the Shadow Vehicle is not used and there is no PCMS, the Protection Vehicle must have a RIGHT LANE CLOSED sign.
- ⑦ The PCMS shall be used for nighttime operations.
- ⑧ When the PCMS is used, the RIGHT LANE CLOSED sign becomes optional.



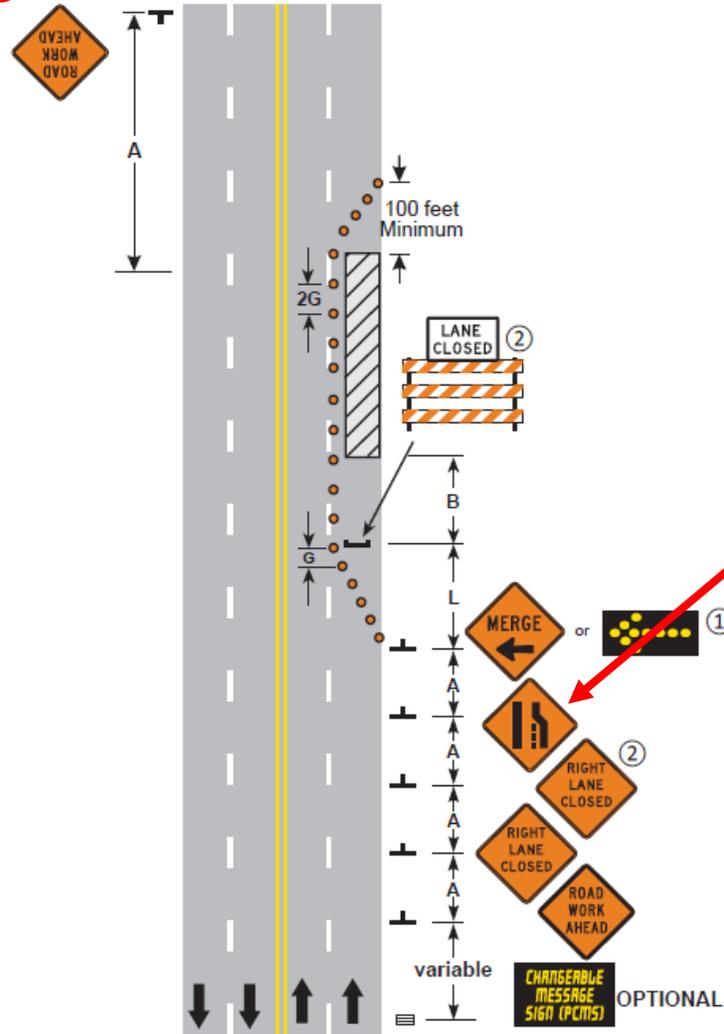
**MOBILE/SHORT DURATION LANE CLOSURE  
MULTI-LANE UNDIVIDED ROAD**

**1 HOUR or LESS**

- Not for use on **Expressways** or **Freeways**
- Duration for most Mobile layouts increased to Short Term (1-hour)
- Channelizers may be omitted if Mobile
- May use additional vehicle to close shoulder
- Shadow vehicle may be omitted if 40 mph or less

**NOTES:**

- ① The Flashing Arrow Board shall be used where the posted speed limit is 45 mph or greater, and shall be placed on the shoulder. If there is no shoulder, or the shoulder is too narrow, place at the end of the taper in lieu of the Type III barricade assembly.
- ② The RIGHT LANE CLOSED sign and/or LANE CLOSED sign may be omitted when the posted speed limit is 40 mph or less.
- ③ If there is a shoulder, close the shoulder using a shoulder taper.



3 DAYS or LESS

RIGHT LANE CLOSURE  
MULTI-LANE UNDIVIDED ROAD

LAYOUT 42

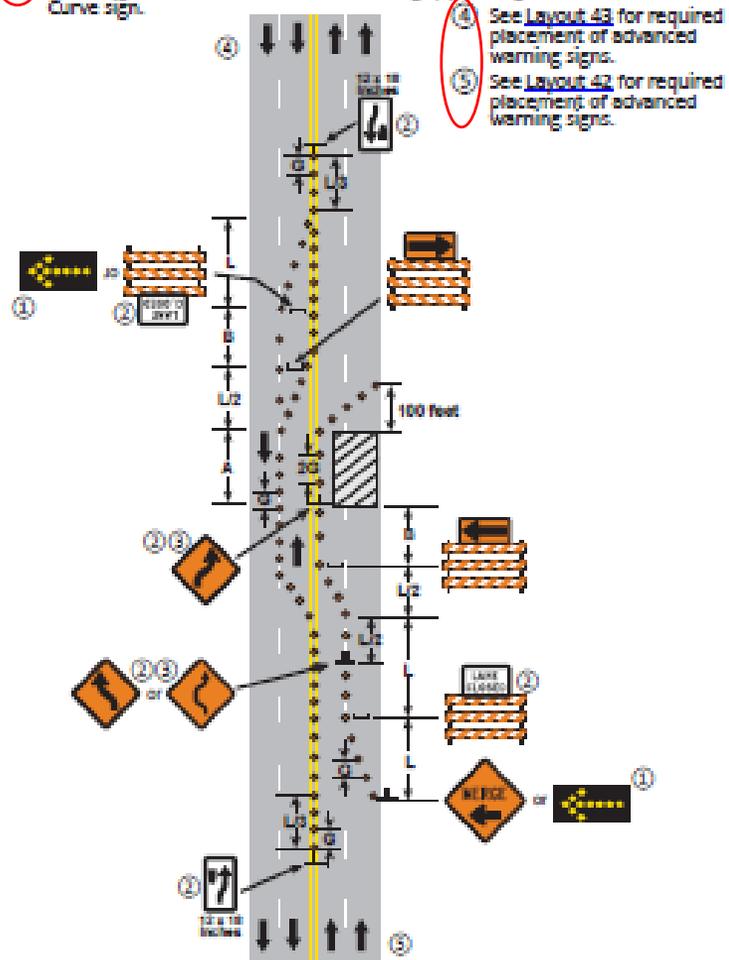
6K-42

- If arrow board won't fit on shoulder, place at the end of the taper
- If there is a shoulder, close the shoulder using a shoulder taper
- In the past the Chimney and Merge sign were interchangeable, now **Chimney (Lane Ends)** is required and next install, **Arrow Board for Hi-speed** or **Merge Sign for Low-speed**



**NOTES:**

- ① The Flashing Arrow Board shall be used where the posted speed limit is 45 mph or greater, and shall be placed on the shoulder. If there is no shoulder, or the shoulder is too narrow, place at the end of the taper in lieu of the Type III barricade assembly.
- ② The LANE CLOSED, Reverse Curve, Double Reverse Curve, and/or Keep Right signs may be omitted when the posted speed limit is 40 mph or less.
- ③ If the tangent length of activity area is 600 feet or less, use the Double Reverse Curve sign. Remove the Reverse Curve sign(s) if using the Double Reverse Curve sign.



3 DAYS or LESS

**DOUBLE LANE CLOSURE  
MULTI-LANE UNDIVIDED ROAD**

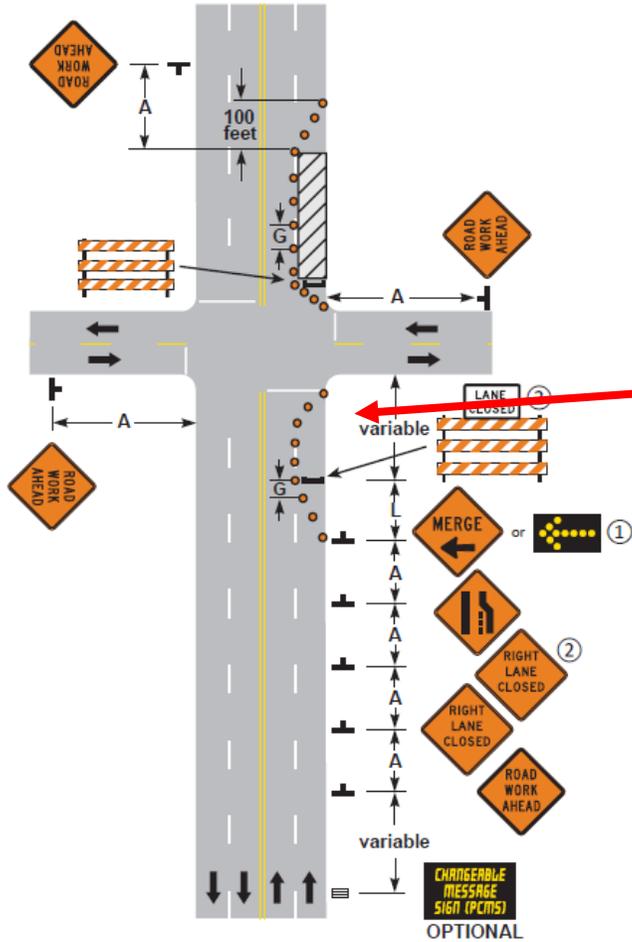
6K-44

LAYOUT 44

- If no shoulder, put Arrow Board at end of taper
- Low-speed may omit Lane Closed and Curve signs
- If tangent <600' use Double Reverse Curve sign
- See appropriate layouts for advance signing

NOTES:

- ① The Flashing Arrow Board shall be used where the posted speed limit is 45 mph or greater, and shall be placed on the shoulder. If there is no shoulder, or the shoulder is too narrow, place at the end of the taper in lieu of the Type III barricade assembly.
- ② The RIGHT LANE CLOSED sign and/or LANE CLOSED sign may be omitted when the posted speed limit is 40 mph or less.
- 3. If there is a shoulder, close the shoulder using a shoulder taper.



**RIGHT LANE CLOSURE**  
 Work Space at Intersection  
 MULTI-LANE UNDIVIDED ROAD

3 DAYS or LESS

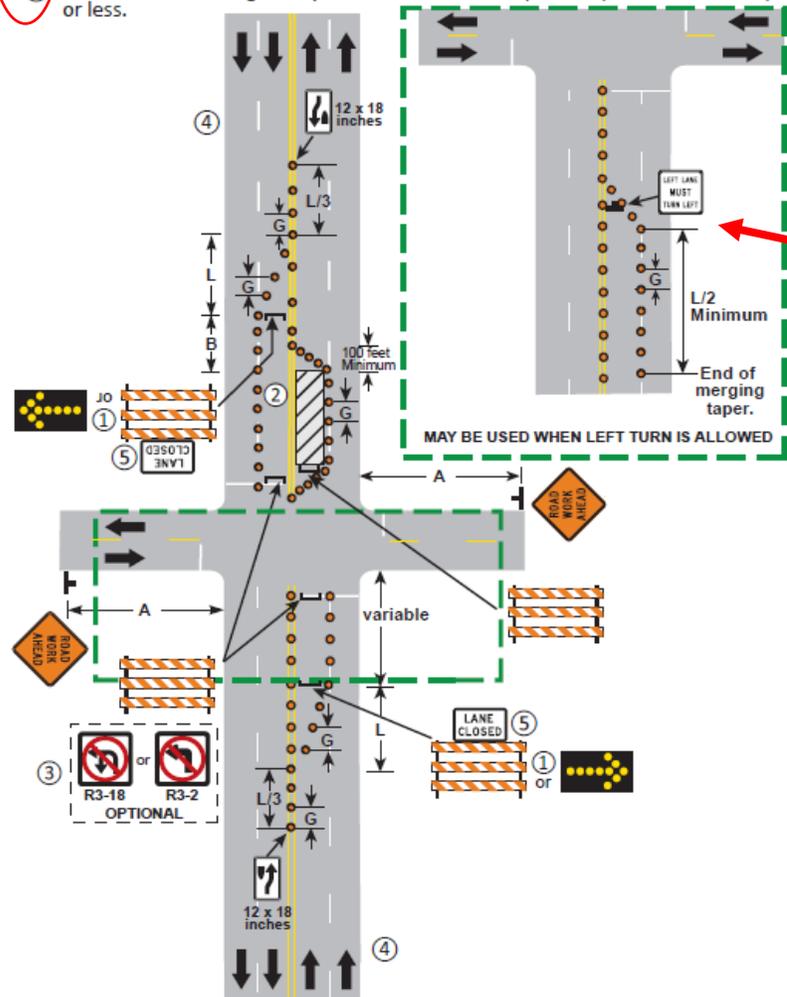
6K-45

LAYOUT 45

- Right Lane Closed and/or Lane Closed may be omitted on 40 mph or less
- If there is a shoulder, close the shoulder with a shoulder taper
- Channelizers curve back to fog line to accommodate turning vehicles

**NOTES:**

- ① Place device at the end of the taper. The Flashing Arrow Board shall be used where the posted speed limit is 45 mph or greater.
- ② The lane closure may be omitted when the workers are not at the work site.
- ③ Optional R3-18 or R3-2 signs may be placed on sign stand or top of barricades on side closest to traffic. Signs are required if turns are prohibited.
- ④ See Layout 43 for placement of Advance Warning Signs.
- ⑤ The LANE CLOSED signs may be omitted when the posted speed limit is 40 mph or less.



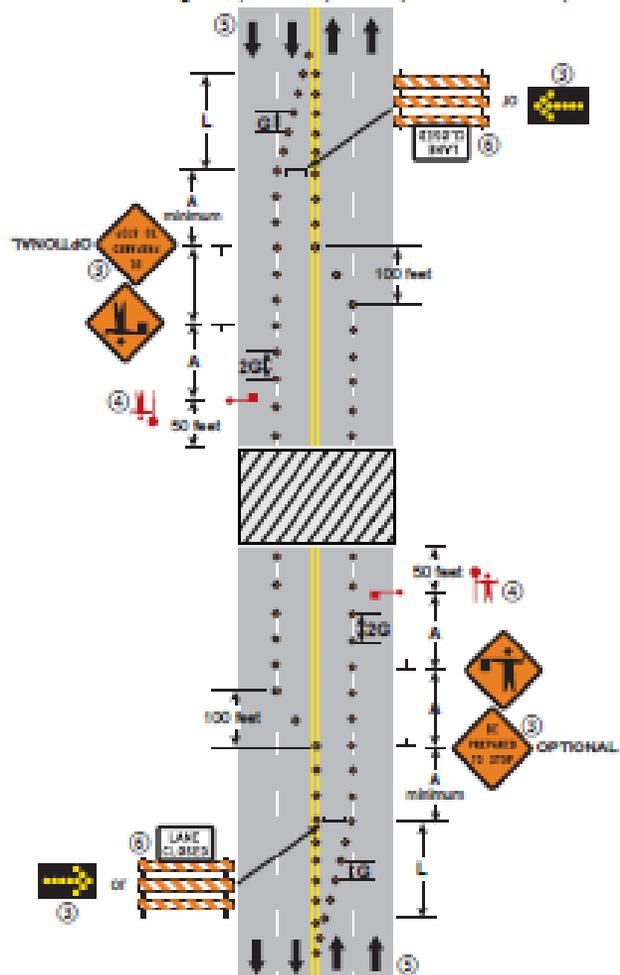
**LEFT LANE CLOSURE**  
 Work Space at Intersection  
 MULTI-LANE UNDIVIDED ROAD  
 3 DAYS or LESS  
 LAYOUT 46  
 6K-46

- Opposite direction lane closure may be omitted when workers not present
- No Turn signs are required if turns are prohibited
- See inset for setting channelizers and signs when turning is allowed



NOTES:

1. The road authority shall be contacted prior to closure.
2. Traffic should not be stopped for intervals greater than 15 minutes.
- ③ The BE PREPARED TO STOP sign and the Flashing Arrow Board shall be used when the posted speed limit is 45 mph or greater.
- ④ Law Enforcement may be used instead of or in addition to a flagger.
- ⑤ Traffic control shall be identical for both directions. See Layout 43 for required placement of advance warning signs.
- ⑥ The LANE CLOSED sign is optional if posted speed limit is 40 mph or less.



12 HOURS or LESS

TEMPORARY ROAD CLOSURE  
MULTI-LANE UNDIVIDED ROAD

6K-48

LAYOUT 48

- Duration extended
- Now shown with 2 Flaggers, with advance warning the same in both directions