Barricades and Signs for Mainline Closures

**Mainline Closure with Posted Detour**

**Mainline Closure, No Posted Detour**

**Legend**
- **Detour:** Mainline closure with posted detour
- **Mainline Closure:** Work zone greater than 1/2 mile from detour route (1000 feet if urban)
- **400' At 35-45 MPH**
- **500' At 25-40 MPH**
- **500' At 45+ MPH**
- **500 FT Ahead**
- **500' OR AS APPROVED FOR FIELD CONDITIONS**

**Mainfield Notes**
- See SDD 15C2-Sheet "b" for general notes and footnotes 1 through 4.

**Barricades and Signs**
- For the distance at the site, place W20-3 signs as appropriate for the distance at the site.
- See SDD 15C2-Sheet "b" for the distance at the site, place W20-3 signs as appropriate for the distance at the site.
- Use additional set of barricades and sign.

**Special Provisions**
- If specified in plans or special provisions.
- If stop sign is being installed, use additional set of barricades and sign.
- Set of barricades and signs replacements, use additional set of barricades and sign.

**Mainfield Notes**
- See SDD 15C2-Sheet "b" for general notes and footnotes 1 through 4.
- For the distance at the site, place W20-3 signs as appropriate for the distance at the site.
- Use additional set of barricades and sign.

**Special Provisions**
- If specified in plans or special provisions.
- If stop sign is being installed, use additional set of barricades and sign.
- Set of barricades and signs replacements, use additional set of barricades and sign.
References:
Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD)
FDM 11-50-20

Bid items associated with this drawing:

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<tr>
<td>643.0420</td>
<td>Traffic Control Barricades Type III</td>
<td>DAYS</td>
</tr>
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<td>643.0705</td>
<td>Traffic Control Warning Lights Type A</td>
<td>DAYS</td>
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<td>643.0900</td>
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<td>DAYS</td>
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<tr>
<td>643.1000</td>
<td>Traffic Control Signs Fixed Message</td>
<td>SF</td>
</tr>
</tbody>
</table>
For D1-x and R10-61 Mod. “Access To ____” signs. |
| 643.1050    | Traffic Control Signs PCMS (if included in the contract) | DAYS |

Standardized Special Provisions associated with this drawing:
108-057 Wisconsin Lane Closure System Advance Notification

Other SDDs associated with this drawing:
SDD 15c2 Barricades and Signs for Mainline Closures sheet "b" is required.
SDD 15c2 Barricades and Signs for Mainline Closures sheet "c" (if detour route signing is included in the contract)
SDD 15c3 Barricades and Signs for Sideroad Closures (if sideroads intersect the mainline within the closure)
SDD 15d30 Traffic Control, Sidewalk Closure (if sidewalk will be closed)

Design Notes:
A traffic control overview sheet is desirable to indicate the following:
Whether to use Detail A, B, or C (and Detail D or E from SDD 15c2 sheet "b") at each end of the project.
Sideroads within the project and whether to use Detail 1, 2, 3, or 4 from SDD 15c3 at each sideroad.
Detour route if one is being designated, unless the route is shown on a detour route signing sheet.
On Details A & B, the following signing is to be installed by the contractor only if specified elsewhere in the contract:
Consult with the Region Traffic Unit about the need to include these signs in the contract:
Detour Route signing. Regions (or other maintaining authority) may choose to install detour route signing with their own forces. If so, indicate it in the Special Provisions. If it is to be installed by the contractor, include separate sheets to show the detour route signing (include signs to be covered or modified using item 643.0910 or 643.0920) along and in advance of the detour, and on main intersecting roads. If the route being detoured is a local road, the M4-9 signs should be supplemented by a road name plaque (using Item 643.1000), especially if the local road is detoured onto a state-trunk highway. Include a special sign layout for the road name plaque, or specify the plaque color and letter size (typically black on white or orange, 5” Series C letters) on the detour sheets.
Detour warning signs (W20-2). W20-2 signs are usually included in the contract. Some Regions or other maintaining authorities may choose to install them with their own forces. If additional warning of the detour is desired, a W20-2G “Detour 1/2 Mile” sign may be added to the series of advance warning signs. Where multiple routes run concurrently on the same road but not all of them are being detoured, W20-2 signs may be supplemented by a route marker if needed to clearly indicate the detoured highway.
Route markers to supplement W20-2 signs (as described above) or W20-3 signs. Regions may choose to furnish route markers for installation by the contractor. If so, indicate it in the plan or Special Provisions.
Community guide signs (D1-x). New or modified D1-x signs are desirable if motorists must take an alternate route to a community. If new signs are to be installed, include plan details showing the special sign layouts.
“Access To ____” signs (R10-61 Mod.). These signs are desirable if there is a community located beyond the beginning of the detour route but prior to the actual road closure point.
“Stop” and “Stop Ahead” signs. Consider using these signs as shown if the traffic volume on the detour route is expected to be greater than the local traffic volume that will continue using the normal mainline route,
especially if the detour traffic makes a left turn at the intersection. Also consider the need for “3-Way” (R1-3) or R1-52-series supplementary signs if temporary stop signs are to be installed.

If W20-2, D1-x, R10-61 (Mod.), or Stop-control signs along or in advance of the detour are to be installed or modified by the contractor, indicate them on the traffic control overview or detour route signing sheet, Special Provisions, and/or Misc. Quantities.

**Contact Person:**
Andrew Heidtke (414) 220-6802
GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHEN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHALL BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MARGIN OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES 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.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE B BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH SIDES, STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

The signs shall not cover any portion of the middle or bottom rails.

All signs shall be 48" x 48" UNLESS OTHERWISE NOTED BELOW:

**R11-2** SHALL BE 48" x 30".

**M4-9** SHALL BE 30" x 24".

**R1-1** SHALL BE 36" x 36".

**D1-X** SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

**M1-4, M1-5A, AND M1-6** SHALL BE 24" x 24". (36" x 36" IF NEEDED TO MATCH EXISTING SIGNS.)

**MO5-1 AND M06-1** SHALL BE 21" x 21". (30" x 30" IF NEEDED TO MATCH EXISTING SIGNS.)

**R11-2B, R11-3, R11-4 AND R10-61** SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL.

**MO AND "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.**

**ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:**

R11-2 SHALL BE 48" x 30".

R11-3 SHALL BE 36" x 36".

R11-4 SHALL BE 48" x 36".

M4-9 SHALL BE 30" x 24".

M4-8 SHALL BE 24" x 12" x 120" x 36" IF NEEDED TO MATCH EXISTING SIGNS.

M4-8 SHALL BE 24" x 12" x 120" x 36" IF NEEDED TO MATCH EXISTING SIGNS.

M4-8, M1-5, M1-6 AND M06-1 SHALL BE 24" x 12" x 120" x 36" IF NEEDED TO MATCH EXISTING SIGNS.

**R11-2, R11-3, R11-4 AND R10-61** SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL.

**THE R11-2, R11-3, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL.**

**THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.**

**WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.**

OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHEN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHALL BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MARGIN OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES 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.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE B BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH SIDES, STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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**R11-2** SHALL BE 48" x 30".

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**M4-8, M1-5, M1-6 AND M06-1** SHALL BE 24" x 12" x 120" x 36" IF NEEDED TO MATCH EXISTING SIGNS.

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**R11-2, R11-3, R11-4 AND R10-61** SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL.

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**M4-8** SHALL BE 24" x 12" x 120" x 36" IF NEEDED TO MATCH EXISTING SIGNS.

**M4-8** SHALL BE 24" x 12" x 120" x 36" IF NEEDED TO MATCH EXISTING SIGNS.

**M4-8, M1-5, M1-6 AND M06-1** SHALL BE 24" x 12" x 120" x 36" IF NEEDED TO MATCH EXISTING SIGNS.

**M4-8, M1-5, M1-6 AND M06-1** SHALL BE 24" x 12" x 120" x 36" IF NEEDED TO MATCH EXISTING SIGNS.

**R11-2, R11-3, R11-4 AND R10-61** SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL.

**THE R11-2, R11-3, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL.**

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Standardized Special Provisions associated with this drawing:
108-057 Wisconsin Lane Closure System Advance Notification

Other SDDs associated with this drawing:
SDD 15c2 Barricades and Signs for Mainline Closures sheet "a" is required.
SDD 15c2 Barricades and Signs for Mainline Closures sheet "c" (if detour route signing is included in the contract)
SDD 15c3 Barricades and Signs for Sideroad Closures (if sideroads intersect the mainline within the closure)

Design Notes:
A traffic control overview sheet is desirable to indicate the following:
Whether to use Detail D or E (and Detail A, B, or C from SDD 15c2 sheet "a") at each end of the project.
Sideroads within the project and whether to use Detail 1, 2, 3, or 4 from SDD 15c3 at each sideroad.

Contact Person:
Andrew Heidtke (414) 220-6802
This drawing provides general guidance on typical detour sign layout and spacing. See project detour signing sheets for specific details for each project.
References:
Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD)
FDM 11-50-20

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Standardized Special Provisions associated with this drawing:
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Other SDDs associated with this drawing:
SDD 15c2 Barricades and Signs for Mainline Closures sheets "a" and "b" are required.

Design Notes:
Project-specific detour route signing sheets are required in the plans. This SDD does not substitute for project-specific sheets. Use this SDD for typical sign spacing, codes, and sizes, and as guidance in developing project-specific detour sheets. In addition to detour route signing, the project-specific sheets should show all needed D1-x community guide signs and any existing signs to be covered or modified (use item 643.0910 or 643.0920).

If the detour will be in place longer than two weeks or if otherwise recommended by the Region Traffic Unit, consider the need for upgraded stop signs, W14-3 (48" x 36") No Passing Zone pennant signs and other warning or regulatory signs along the detour route. If new or upgraded signs are included in the contract and will remain in place after the detour is removed, use Item 637.0202, Signs Reflective Type II (SF) to pay for these signs. Items from Sections 634 and 638 may also be needed for sign posts and removals.

Some of the detour and community guide signs are shown on the SDD to be optional. Use the following guidance or consult with the Region Traffic Unit about the need to include these signs in the contract:
Advance route turn assemblies and community guide signs (D1-x). On the detour route itself, advance route turn assemblies may be omitted on approaches to a stop sign if there is no existing advance route turn assembly already in place. On sideroads approaching intersections with the detour route, advance route turn assemblies may be omitted if the sideroad is a town road or similar low-volume roadway. If there are existing advance route turn assemblies or community guide signs, modify them as appropriate for the detour.
Detour warning sign (W20-2) assemblies with highway route marker. Use on the sideroad approaching the intersection with the detour route if the sideroad approach is a state-trunk, US, or Interstate highway or other high-volume roadway.
Detour Next X Miles (G20-51) sign. Consider if the detour adds more than 5 miles of extra travel distance compared to the distance along the normal mainline route.
See Design Notes for SDD 15c2 sheet "a" for more information on use of detour signs, route markers, and community guide signs.

On route marker assemblies that are not located on the detour route, the M4-8 “Detour” plaque may be substituted by a M4-5 “To” plaque.

Contact Person:
Andrew Heidtke (414) 220-6802