

ORIGINATION FORM

Proposed Revisions to a Standard Plans Index
(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: May 26, 2020

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Standard Plans:

Index Number: 102-620

Sheet Number (s): 2

Index Title: Multilane, Divided, Temporary Diversion
Connection

Summary of the changes:

Sheet 1: Updated Notes; Deleted Scheme Applications and Conditions; Added "Temporary Diversion for Divided Roadways" Detail (Moved from Sheet 2); consolidated details for all speeds; Renamed Index.

Old Sheet 2: Revised and Renamed 'Scheme 1' to 'Temporary Diversion for Divided Roadways with Work Zone Speeds >50 MPH' and Moved to Sheet 1; Consolidated 'Scheme 2' to with detail on Sheet 1; Deleted 'Scheme 3' and 'Buffer Length' Table; Renamed Index

New Sheet 2: Added Index 102-621 as New Sheet 2; Revised Detail; Consolidated Notes and Moved to Sheet 1; Deleted 'Table II Taper Length - Merge' and Conditions; Renamed Index.

Commentary / Background:

Other Affected Offices / Documents: (Provide name of person contacted)

Yes	No	
☐	☐	Other Standard Plans –
☐	☐	FDOT Design Manual –
☐	☐	Basis of Estimates Manual –
☐	☐	Standard Specifications –
☐	☐	Approved Product List –
☐	☐	Construction –
☐	☐	Maintenance –

Origination Package Includes:

(Email or hand deliver package to Rick Jenkins)

Yes	N/A	
☒	☐	Redline Mark-ups
☐	☐	Proposed Standard Plan Instruction (SPI)
☐	☐	Revised SPI
☐	☐	Other Support Documents

Implementation:

- ☐ Design Bulletin (Interim)
- ☐ DCE Memo
- ☐ Program Mgmt. Bulletin
- ☒ FY-Standard Plans (Next Release)

————— Contact the Roadway Design Office for assistance in completing this form —————

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2021-22

MULTILANE ROADWAY, TEMPORARY DIVERSION

LAST REVISION 11/01/17	REVISION	DESCRIPTION:	FDOT FY 2020-21 STANDARD PLANS	MULTILANE, DIVIDED TEMPORARY DIVERSION CONNECTION	INDEX 102-620	SHEET 1 of 2
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SYMBOLS

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Advance Warning Arrow Board
- Lane Identification + Direction of Traffic

UPDATED NOTES

GENERAL NOTES

1. TWO-WAY TRAFFIC sign(s) shall be repeated every ¼ mile in each direction, throughout the tangent distance (T).

2. L (min.) = $\frac{WS^2}{60}$ for speeds ≥ 45 mph
= — for speeds ≤ 40 mph

Where:
W= Width of lateral transition in feet.
S= Posted speed limit (mph).

DELETED - MOVED
TO 102-600

3. Where the tangent distance (T) exceeds 250', spacing between Type I or II barricades or vertical panels or drums may be increased to 100' within the limits of the tangent, or post mounted delineators at 50' centers may be substituted for barricades, vertical panels or drums.

4. All existing pavement markings within the realignment which conflict with the revised traffic pattern are to be removed and removable pavement markings used for making new edge lines.

5. When side roads, cross roads or interchanges intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ indexes.

6. For general TCZ requirements and additional information, refer to Index 102-600.

ADDED "TEMPORARY DIVERSION FOR DIVIDED ROADWAYS WITH WORK ZONE SPEEDS 50 MPH OR GREATER" DETAIL

SCHEME APPLICATIONS

Scheme 1: Restricted Construction Limits.

Scheme 2: Unrestricted Construction Limits And Light To Moderate Traffic.

Scheme 3: Unrestricted Construction Limits And Moderate To Heavy Traffic.

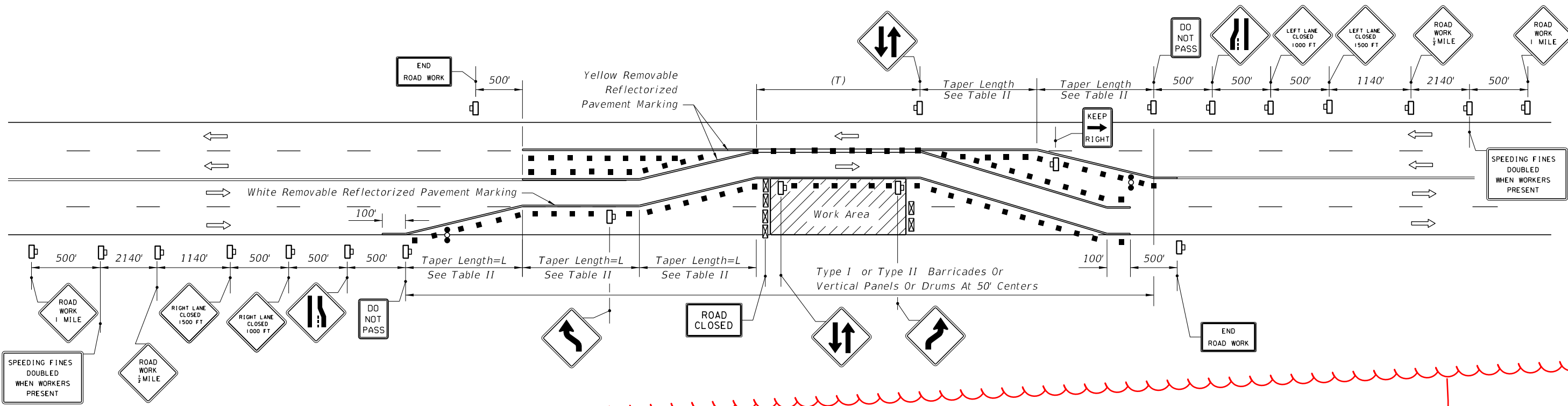
Where: Construction Limits Are The Outward Beginning Or Ending Of Lane Reductions.

Where: Unless A Specific Scheme Is Called For In The Plans, Scheme Selection Shall Be At The Contractor's Option And As Approved By The Engineer.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES REQUIRE THE CLOSURE OF ONE ROADWAY AND THE OPPOSING ROADWAY IS CONVERTED TO TEMPORARY TWO-WAY TRAVEL BY WAY OF CROSSOVERS.

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SHEET 1

REVISED DETAIL

SYMBOLS

- Work Area
- Channelizing Device (See Index 102-600)
- Type III Barricade
- Work Zone Sign
- Advance Warning Arrow Board
- Lane Identification + Direction of Traffic

GENERAL NOTES

- TWO-WAY TRAFFIC signs shall be repeated every 1/4 mile in each direction, through the tangent distance (T).
- When paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index 102-612 for shoulder taper formulas.
- Where the tangent distance (T) exceeds 250', spacing between cones or tubular markers may be increased to 50' or spacing between Type I or Type II barricades or vertical panels or drums may be increased to 100' within the limits of the tangent.
- This index does not apply when work is being performed in the middle lane(s) of a six or more lane highway. Special maintenance of traffic details will be required.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- For general TCZ requirements and additional information, refer to Index 102-600.

Table II
Taper Length - Merge
(12' Lateral Transition)

Speed (mph)	L (ft.)	Notes (Merge)
25	125	$L = \frac{WS^2}{60}$
30	180	
35	245	
40	320	
45	540	L=WS
50	600	
55	660	
60	720	
65	780	
70	840	

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102-600

For lateral transitions other than 12' use formula for L shown in the notes column.
Where:
L = Length of taper in feet
W = Width of lateral transition in feet
S = Posted speed limit (mph)

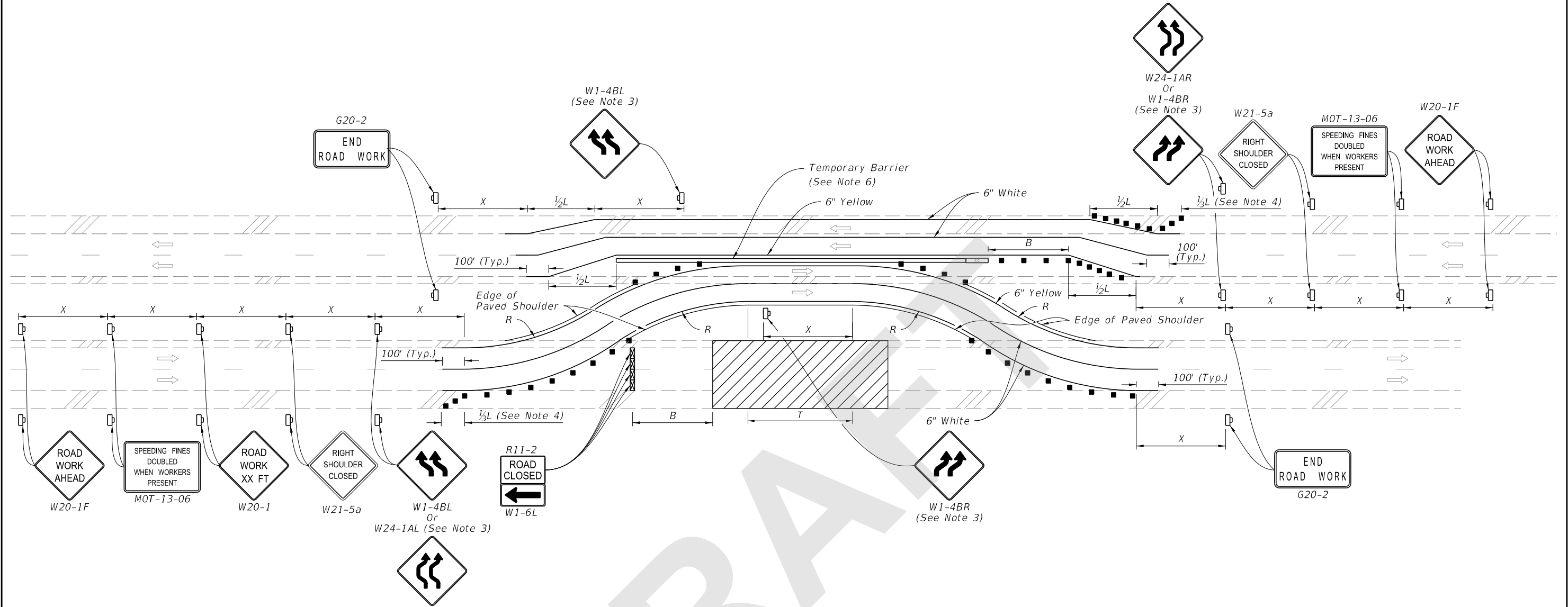
CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES REQUIRE THE CLOSURE OF THE LANES IN ONE DIRECTION AND A DIVERSION IS PROVIDED BY UTILIZING ONE LANE OF THE OPPOSING TRAFFIC LANES.

MULTILANE ROADWAY, TEMPORARY DIVERSION

11/01/20

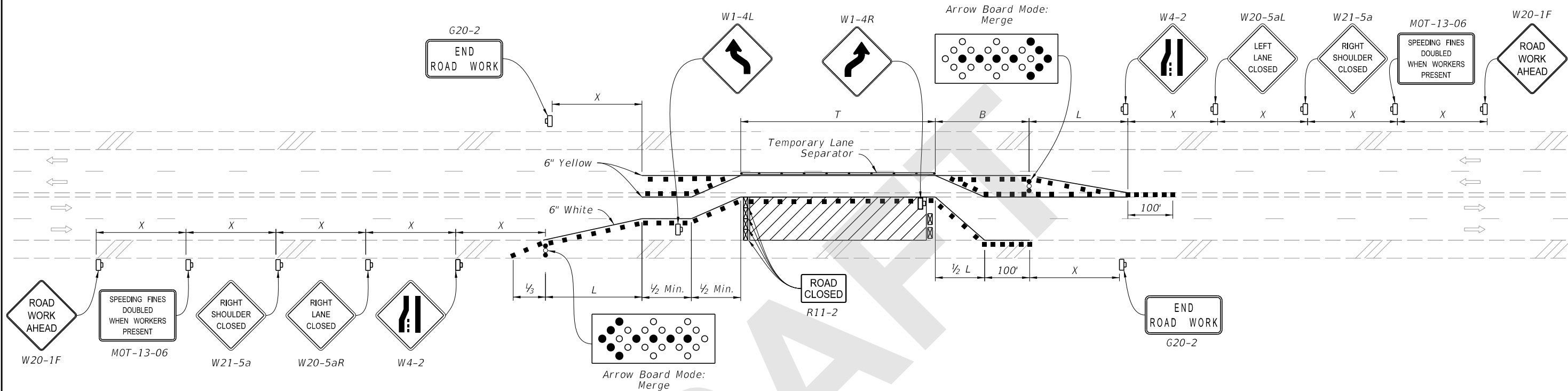
2021-22



TEMPORARY DIVERSION FOR DIVIDED ROADWAYS

- NOTES:**
1. This Index applies to multilane roadways, except with undivided roadways with 6 or more lanes, where the work requires the closure of the lanes in one direction and diversion is provided to convert the opposing traffic lanes to temporary two-way travel.
 2. L=Taper Length
B=Buffer Length
X=Work Zone Sign Distance
R=Radius of Curve
See Index 102-600 for "L", "B", "X", channelizing device spacing values. See Plans for "R" values.
 3. For undivided roadways with a tangent distance "T" less than 600', use "Double Reverse Curve" signs (W24-1A) instead of the first pair of "Reverse Curve" signs (W1-4B) and omit the second pair of "Reverse Curve" signs.
 4. If the paved shoulder is less than 4' in width, omit the taper and channelizing devices shown on the paved shoulder.
 5. If the work encroaches on a marked bicycle lane or rideable shoulder, maintain a 5' minimum outside paved shoulder through the diversion. If the minimum shoulder width can not be provided, close the lane or shoulder in accordance with the Plans.
 6. Temporary Lane Separator may be used in lieu of Temporary Barrier for speed limits of 45 mph or less.

- SYMBOLS:**
- Work Area
 - Channelizing Device (See Index 102-600)
 - Work Zone Sign
 - Lane Identification and Direction of Traffic
 - Crash Cushion
 - Type III Barricade



TEMPORARY DIVERSION FOR UNDIVIDED ROADWAYS

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic
- Type III Barricade
- Advance Warning Arrow Board

NOTE:

Temporary pavement markings may be omitted when the work zone is in place for 3 days or less.