#### ORIGINATION FORM -

## Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

## **Contact Information:**

Date: December 20, 2020

Originator: Derwood Sheppard

Phone: (850) 414-4334

Email: derwood.sheppard@dot.state.fl.us

## **Standard Plans:**

Index Number: 102-600

Sheet Number (s): 5, 6, and 7 of 11

Index Title: General Information for Traffic Control Through

**Work Zones** 

## **Summary of the changes:**

Sheet 5: Changed the Height reference note to "See Index 700-102 for Special Sign Details" and deleted the 60" Width in the 3 POST SUPPOR MOUNTING DETAILS; Moved TEMPORARY SIGN SUPPORT NOTE 9 to TABLE 7, as Note 5; Deleted the 60x64 and the 120x60\* Rectangle signs and associated note from TABLE 7; Deleted "(See Note 7)" reference from the Diamond sign in TABLE 7.

Sheet 6: Rearranged all signs: Added signs: R4-11, W11-1, and W16-1p: Deleted all of the "MOT" signs.

Sheet 7: Added the SIDE ROAD INTERSECTING THE WORK ZONE details form Index 102-606.

## **Commentary / Background:**

The duration provisions of the index are intended to apply to the length time needed to perform the specific temporary traffic control work "operation" shown, which is independent of the duration of an overall construction project. The term "Work Zone" is being replaced with "Work Operation" to clarify the intent.

Other Affected Offices	/ Documents:	Provide name of	person contacted)
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Yes	No		
	$\checkmark$	Other Standard Plans –	
	<b>/</b>	FDOT Design Manual –	
	<b>/</b>	Basis of Estimates Manual –	
	<b>/</b>	Standard Specifications –	
	<b>/</b>	Approved Product List –	
		Construction –	
	<b>/</b>	Maintenance –	
Origination Package Includes:		Implementation:	
(Email or hand deliver package to Rick Jenkins)		☐ Design Bulletin (Interim)	
Yes	N/A		☐ DCE Memo
		Redline Mark-ups	Program Mgmt. Bulletin
		Proposed Standard Plan Instruction (SPI)	FY-Standard Plans (Next Release)
		Revised SPI	
		Other Support Documents	

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

- a. Road closure signs mounted in accordance with the vendor drawing for the Type III Barricade shown on the APL.
- b. Pedestrian and bicycle advanced warning or pedestrian regulatory signs mounted on sign supports in accordance with the vendor drawing shown on the APL.
- c. Median barrier mounted signs per Index 700-013.
- d. Bridge mounted signs per Index 700-012.
- 2. Unless shielded with barrier or outside of the Clear Zone, signs mounted on temporary supports or barricades, and barricade/sign combination must be crashworthy in accordance with NCHRP 350 requirements and included on the Approved Products List (APL).
- 3. Use only approved systems listed on the Department's Approved Products List (APL).
- 4. Manufacturers seeking approval of U-Channel and steel square tube sign support assemblies for inclusion on the Approved Products List (APL) must submit a APL application, design calculations (for square tube only), and detailed drawings showing the product meets all the requirements of this Index.
- 5. Provide 3 lb/ft Steel U-Channel Posts with a minimum section modulus of 0.43 in<sup>3</sup> for 60 ksi steel, a minimum section modulus of 0.37 in<sup>3</sup> for 70 ksi steel, or a minimum section modulus of 0.34 in³ for 80 ksi steel.
- 6. Provide 4 lb/ft Steel U-Channel Posts with a minimum section modulus of 0.56 in<sup>3</sup> for 60 ksi steel, or a minimum section modulus of 0.47 in<sup>3</sup> for 70 ksi or 80 ksi steel.
- 7. U-channel posts shall conform with ASTM A 499, Grade 60, or ASTM A 576, Grade 1080 (with a minimum yield strength of 60 ksi). Square tube posts shall conform
- with ASTM A 653, Grade 50, or ASTM A 1011, Grade 50. Sign attachment botts, washers, nuts, and

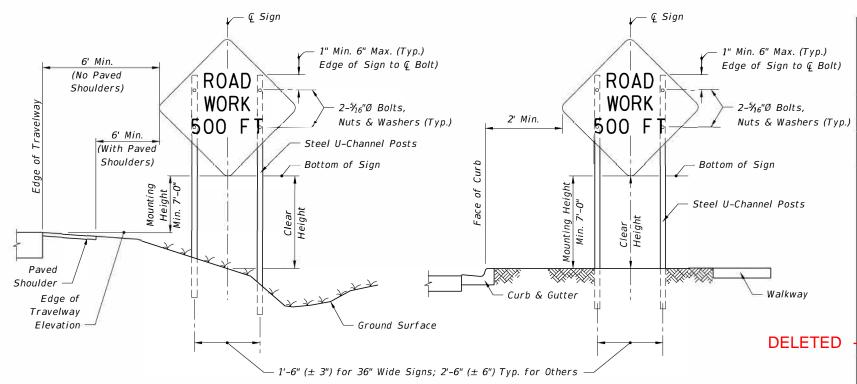
#### shall conform with ASTM A307 or A 36. MOVED TO: Table 7 Notes.

9. For diamond warning signs with supplement plaque (up to 5 ft<sup>2</sup> in area), use 4 lb/ft posts for up to 10 ft Clear Height (measure to the bottom of diamond warning sign)

#### 10. Inst Renumbered brea

detail shown on the APL.

- The contractor may install 3 lb/ft Steel U-Channel Posts with approved breakaway splice in accordance with the manufacturer's detail shown on the APL.
- 12. Install all posts plumb.
- 3. The contractor may set posts in preformed holes to the specified depth with suitable backfill tamped securely on all sides, or drive 3 lb/ft sign posts and any size base post in accordance with the manufacturer's detail shown on the APL.



2 POST SIGN SUPPORT MOUNTING DETAILS (SINGLE POST SIMILAR) RURAL

∟ ∕— Ç Sign

SPEEDING FINES

DOUBLED

WHEN WORKERS

PRESENT

W=Width

2 POST SIGN SUPPORT MOUNTING DETAILS (SINGLE POST SIMILAR)

See Index 700-102 for URBAN Special Sign Details

Steel U-Channel Post

Lock Washer

 $(\frac{5}{16}$ " Nominal Size)

5/16" Steel Hex Nut

**DELETED** 

Cutting Edge Sign Post or Base Post Stub Height 4" Max.  $\overline{A}$ For Base Post Only Ground Surface

2 9 %"Ø @ 1" Centers

# TYPICAL FOUNDATION DETAIL

See APL for post, splice and connection details. No bolts installed closer than 1" to cutting edge.

MOVED: Note 9 as Note 5 in Table 7

TABLE 7

POST AND FOUNDATION

TABLE FOR

WORK ZONE SIGNS

30x30

36x36x36

48x48x48

60x60x60

24x18

24x30

30x24

36x18

36x24

48x18

48x24

36x48

48x30

48x36

54x36

48x60

60×54

72x48

120×60\*

30x30

36x36

48x48

48x48

36Ø

Use 4 lb/ft U-channel sign post with a

posts and 4.5' for 4 lb/ft posts.

. Use 3 lb/ft posts for Clear Height up to 10'

and 4 lb/ft posts for Clear Height up to 12'.

mounting height of 7" min. and 8" max. Attach

sign panel using Z-bracket detail on Sheet 6.

posts installed in rock, a minimum cumulative

2. Minimum foundation depth is 4.0' for 3 lb/ft

3. For both 3 lb/ft and 4 lb/ft base or sign

depth of 2' of rock layer is required.

4. The soil plate as shown on the APL vendor

sign posts installed in existing rock (as

pavement or soil under sidewalk.

drawing is not required for base posts or

defined in Note 3), asphalt roadway, shoulder

SIGN SHAPE

Octagon

Triangle

Rectangle

 $(W \times H)$ 

Sauare

Diamond

See Note 7

Circle

Notes For Table:

SIGN SIZE | NUMBER OF STEEL

(inches) U CHANNEL POSTS

4\*

2

2

SECTION A-A (SCHEMATIC)

— 1" Min. 6" Мах (Тур.)

(At € Post)

Bottom Of

Ground Surface

SIGN ATTACHMENT DETAIL (WITHOUT Z-BRACKET)

5/16" Steel Hex

Head Bolt

Flat Washer (5/16" Nominal Size)

# WORK ZONE SIGN SUPPORTS

LAST **REVISION** 11/01/20

DESCRIPTION: - 11/01/21



Steel U-Channel Posts

6' Min.

(No Paved

Shoulders)

Payed

Luge U

Travelway

Elevation

6' Min.

(With Paved

Shoulders)

FY 2021-22 STANDARD PLANS

3 POST SIGN SUPPORT MOUNTING DETAILS

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES

INDEX 102-600

SHEET

5 of 11

### REARRANGED

0/B

ROAD

CLOSED

R11-2

B/W

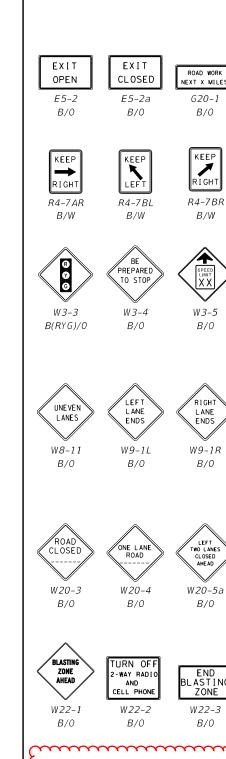
W6-2

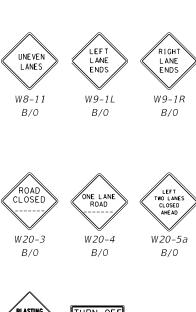
B/0

X X N.P.H.

W13-1

B/0







SIDEWALK

CLOSED

R9-9

B/W

ROAD

IARROWS

W5 - 1

B/0

W10-1

B/Y

CENTER LA CLOSED

W20-5C

END ROAD WORK

G20-2

B/0

R5-1

WR/W

W4 - 1

B/0

LANE ENDS MERGE LEFT

W9-2L

B/0

LEFT LANE CLOSED

W20-5L

B/0

TRUCKS TURNING LEFT

TRUCKS ENTERING

B/0

B/0

PEDESTRIAN

CROSSWALK

R9-8

B/W

W4-2

B/0

LANE ENDS MERGE RIGHT

W9-2R

B/0

W20-5R

**ADDED SIGNS:** 

R4-11

W11-1

W16-1P

MERGE RIGHT ON FLASHING



SIDEWALK CLOSED

USE OTHER SIDE

R9-10

B/W

NARROW BRIDGE

W5-2

B/0

W11-2

B/0

W16-7P

B/0

FLAGGER

W20-7A

B/0

STATE

PRISONERS



B/0

SIDEWALK CLOSED

CROSS HERE

R9-11

B/W

DNE LANÈ

W5-3

B/0

W12-1

B/0

W20-7

B/0

XXX FEET

W16-2P

B/0

BUSINESS

ENTRANCE



B/0

SIDEWALK CLOSED

CROSS HERE

R9-11a

B/W

W6-1

B/0

W12-2

B/0

WORKERS



0/B

W1-1R

B/0

W6-3

B/0

ROAD WORK 500 F

W20-1A

B/0

SHOULDER WORK









DO

PASS









B/Y

W1-2R

B/0

BUMP

W8-1

B/0

ROAD WORK 1000 F

W20-1B

B/0

RIGHT

SHOULDER

CLOSED

R1-1 W/R

W1 - 3R

*B/0* 

DIP

W8-2

B/0

ROAD WORK 1500 F

W20-1C

B/0

. SURVEY

CREW

R1-2 RW/R

W1-4R

B/0

PAVEMENT

**ENDS** 

W8-3

B/0

ROAD WORK

W20-1D

B/0

UTILITY WORK AHEAD

W21-7

XX R2-1 B/W

W1-4b

B/0

SOFT SHOULDE

W8-4

B/0

ROAD WORK MILE

W20-1E

NOT PASS R4-1 B/W

W1-4c

B/0

W8-5

B/0

WORK AHE AD

W20-1F

B/0

CARE R4-2 B/W

TRUCK

W8-6

B/0

DE TOUP AHE AD

W20-2A

B/0

R4-7AL

B/W

B/WB/W







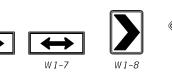


W8-9

B/0

B/0







RB/0

W3-2

SHOULDER DROP OFF

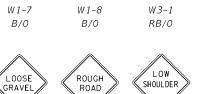
W8-9a

B/0

B/0

W1-6 B/0







DETOUR 500 FT

W20-2B

B/0





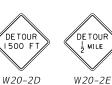


W20-2C

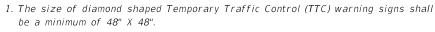
B/0

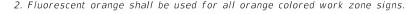
W8-8

B/0





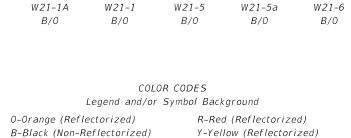


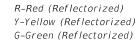


3. The sign shields, symbols and messages contained on this sheet are provided for ready reference to those signs used in the development of the 102 Series of Indexes and are commonly used in the development of traffic control plans. For additional signs and sign detail information refer to the STANDARD HIGHWAY SIGNS MANUAL as specified in the MUTCD. Special signs for traffic control plans will be as approved by the State Traffic Plans Engineer.

The sign codes shown on this sheet are for the purpose of identifying cell names found in the Traffic Control Cell Library (TCZ.Cel).

The STANDARD HIGHWAY SIGNS MANUAL should be referenced for the official sign codes for use in the development of traffic control plans.

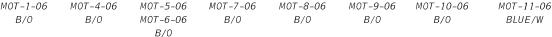




PEDESTRIAN

MOT-12-06L

WALKWAY



SPEEDING FINES DOUBLED WHEN WORKERS PRESENT

MOT-13-06

(Limited access facilities)

MOT-14-06

(All other facilities)



GROOVED PAVEMENT

AHEAD

W8-15P

B/0

Slow Down My Daddy Works Here MOT-16-06

B/0

CONTROL DE LA CONTROL DE LA CONTROL DE CONTR



Slow Down

B/0



MOT-18-10

# DELETED ALL OF THE MOT SIGNS

LIGHTED WORK ZONE

COMMONLY USED WARNING AND REGULATORY SIGNS IN WORK ZONES

DESCRIPTION: REVISION – 11/01/21 11/01/20

LITTER PICK UP

STAY

N YOUF

ANE



FY 2021-22 STANDARD PLANS

W-White (Reflectorized)

PEDESTRIAN

MOT-12-06R

B/W

WALKWAY

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES

102-600

INDEX

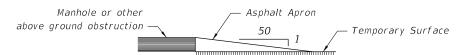
SHEET

#### REARANGED

#### MANHOLES/CROSSWALKS/JOINTS

Manholes extending 1" or more above the travel lane and crosswalks having an uneven surface greater than  $\frac{1}{4}$ " shall have a temporary asphalt apron constructed as shown in the diagram below.

All transverse joints that have a difference in elevation of 1" or more shall have a temporary asphalt apron constructed as shown in the diagram below.



The apron is to be removed prior to constructing the next lift of asphalt. The cost of the temporary asphalt shall be included in the contract unit price for Maintenance of Traffic, LS.

#### SIGNALS

Existing traffic signal operations that require modification in order to carry out work zone traffic control shall be included in the Plans and be approved by the District Traffic Operations Engineer.

Refer to Specification 102-9 for additional information.

- 11/01/21

DESCRIPTION:

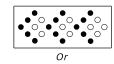
#### ADVANCE WARNING ARROW BOARDS

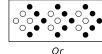
An arrow board in the arrow or chevron mode shall be used only for stationary or moving lane closures on multilane roadways.

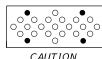
For shoulder work, blocking the shoulder, for roadside work near the shoulder, or for temporarily closing one lane on a two-lane, two-way roadway, an arrow board shall be used only in the caution mode.

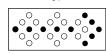
A single arrow board shall not be used to merge traffic laterally more than one lane. When arrow boards are used to close multiple lanes, a single board shall be used at the merging taper for each closed lane.

When Advance Warning Arrow Boards are used at night, the intensity of the flashers shall be reduced during darkness when lower intensities are desirable.











MOVE/MERGE LEFT

MOVE/MERGE RIGHT

MOVE/MERGE RIGHT OR LEFT

- Minimum Required Lamps Additional Lamps Allowed

#### TRUCK/TRAILER-MOUNTED ATTENUATORS

Truck/Trailer-mounted attenuators (TMA) can be used for moving operations and short-term stationary operations. For moving operations, see Index 102-607 For short-term, stationary operations, see Part VI of the MUTCD.

#### CHANNELIZING DEVICES

Channelizing devices for work zone traffic control shall be as prescribed in Part VI of the MUTCD, subject to supplemental revisions provided in the contract documents and the 102 Series of Indexes. Lighting Devices must not be used to supplement channelization.

#### CHANNELIZING DEVICE CONSISTENCY

Barricades, vertical panels, cones, tubular markers and drums shall not be intermixed within either the lateral transition or within the tangent alignment.

*MODES* 

ADDED: SIDE ROAD INTERSECTING THE WORK ZONE detail from Index 102-606

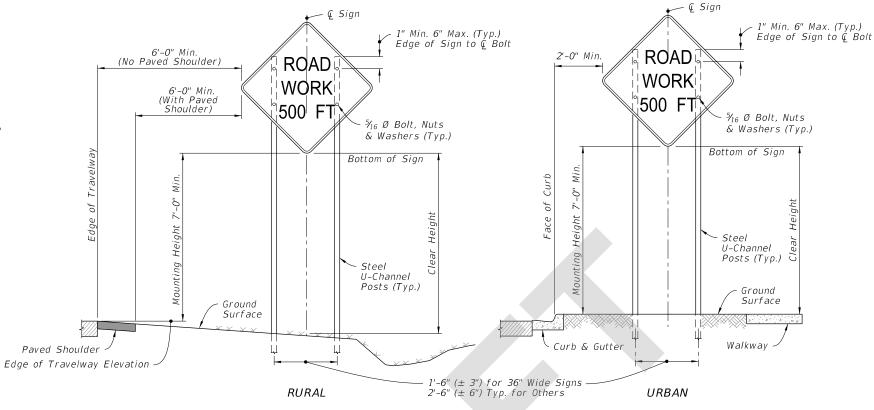
REVISION 11/01/20

FDOT

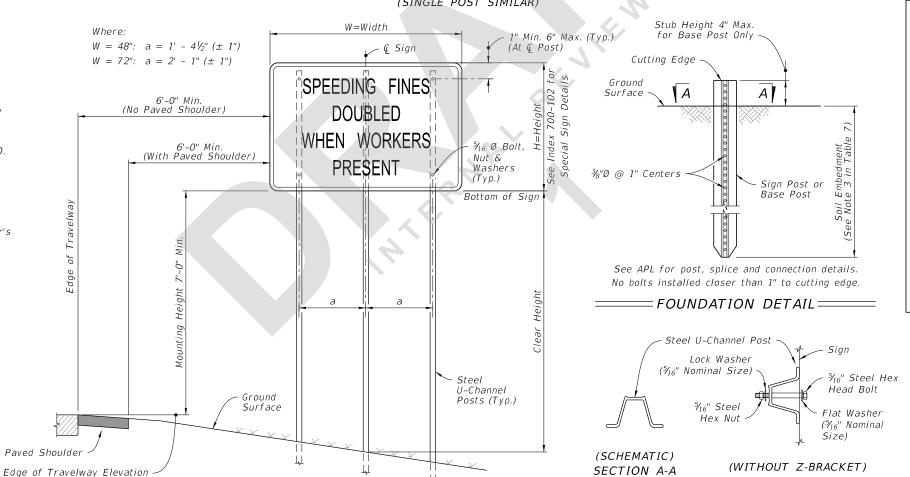
## NOTES:

- 1. All signs shall be post mounted when work operations exceed one day except for:
- a. Road closure signs mounted in accordance with the vendor drawing for the Type III Barricade shown
- b. Pedestrian and bicycle advanced warning or pedestrian regulatory signs mounted on sign supports in accordance with the vendor drawing shown on the APL.
- c. Median barrier mounted signs per Index 700-013.
- d. Bridge mounted signs per Index 700-012.
- 2. Unless shielded with barrier or outside of the Clear Zone, signs mounted on temporary supports or barricades, and barricade/sign combination must be crashworthy in accordance with NCHRP 350 requirements and included on the Approved Products List (APL).
- 3. Use only approved systems listed on the Department's Approved Products List (APL).
- 4. Manufacturers seeking approval of U-Channel and steel square tube sign support assemblies for inclusion on the Approved Products List (APL) must submit a APL application, design calculations (for square tube only), and detailed drawings showing the product meets all the requirements of this Index.
- 5. Provide 3 lb/ft Steel U-Channel Posts with a minimum section modulus of 0.43 in³ for 60 ksi steel, a minimum section modulus of 0.37 in³ for 70 ksi steel, or a minimum section modulus of 0.34 in³ for 80 ksi steel
- 6. Provide 4 lb/ft Steel U-Channel Posts with a minimum section modulus of 0.56 in<sup>3</sup> for 60 ksi steel, or a minimum section modulus of 0.47 in<sup>3</sup> for 70 ksi or 80 ksi steel.
- 7. U-channel posts shall conform with ASTM A 499. Grade 60, or ASTM A 576, Grade 1080 (with a minimum yield strength of 60 ksi). Square tube posts shall conform with ASTM A 653, Grade 50, or ASTM A 1011, Grade 50.
- 8. Sign attachment bolts, washers, nuts, and spacers shall conform with ASTM A307 or A 36.
- 9. Install 4 lb/ft Steel U-Channel Posts with approved breakaway splice in accordance with the manufacturer's detail shown on the APL
- 10. The contractor may install 3 lb/ft Steel U-Channel Posts with approved breakaway splice in accordance with the manufacturer's detail shown on the APL.
- 11. Install all posts plumb.
- 12. The contractor may set posts in preformed holes to the specified depth with suitable backfill tamped securely on all sides, or drive 3 lb/ft sign posts and any size base post in accordance with the manufacturer's detail shown on the APL.

DESCRIPTION:



## 2 POST SIGN SUPPORT MOUNTING DETAILS (SINGLE POST SIMILAR)



## TABLE 7 POST AND FOUNDATION TABLE FOR WORK ZONE SIGNS

SIGN SHAPE	SIGN SIZE (inches)	NUMBER OF STEEL U CHANNEL POSTS	
Octagon	30x30	1	
	36x36x36	1	
Triangle	48x48x48	1	
	60x60x60	2	
Rectangle	24×18	1	
	24x30	1	
	30x24	1	
	36×18	1	
	36x24	1	
	48 x 18	1	
(W x H)	48x24	1	
(W × 11)	36 x 48	2	
	48 x 30	2	
	48x36	2	
	54x36	2	
	48x60	3	
	72x48	3	
Square	30x30	1	
	36 x 36	2	
	48×48	2	
Diamond	48×48	2	
Circle	36Ø	2	

#### Notes For Table:

- 1. Use 3 lb/ft posts for Clear Height up to 10' and 4 lb/ft posts for Clear Height up to 12'.
- 2. Minimum foundation depth is 4.0' for 3 lb/ft posts and 4.5' for 4 lb/ft posts.
- 3. For both 3 lb/ft and 4 lb/ft base or sign posts installed in rock, a minimum cumulative depth of 2' of rock layer is required.
- 4. The soil plate as shown on the APL vendor drawing is not required for base posts or sign posts installed in existing rock (as defined in Note 3), asphalt roadway, shoulder pavement or soil under sidewalk.
- 5. For diamond warning signs with supplement plague (up to 5 ft2 in area), use 4 lb/ft posts for up to 10 ft Clear Height (measure to the bottom of diamond warning sign).

WORK ZONE SIGN SUPPORTS

**REVISION** 11/01/21

**FDOT** 

FY 2022-23 STANDARD PLANS

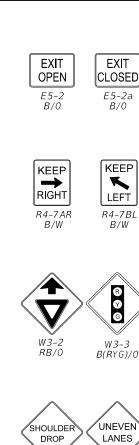
= 3 POST SIGN SUPPORT MOUNTING DETAILS =

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES

=== SIGN ATTACHMENT DETAIL ====

INDEX 102-600

SHEET 5 of 11







ROAD WORK

NEXT XX MILES

G20-1





END

ROAD WORK

G20-2



PILOT CAR FOLLOW ME

G20-4

B/0





**DETOUR** 

M4 - 8

B/0



**END** 

DETOUR

M4-8A

B/0



DETOUF

M4-9R

B/0

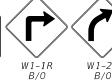


M4-10L

0/B



M4-10R



OM-3R



R1 - 1

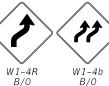


R1-2



SPEED LIMIT

|XX|



DO NOT

PASS

R4-1



PASS

WITH

CARE

R4-2



TRUCKS USE RIGHT

LANE

R4-5



ROUGH

ROAD

W8-8

B/0



KEEP

**←** LEFT

R4-7AL













B/0



B/0

DETOUR

 $\leftarrow$ 

M4-9L

B/0









B/O

DIP W8-2

B/0

W8-3 B/0

**ENDS** 

SOFT PAVEMENT

SHOULDER W8-4

B/0







B/0



B/0

















B/0





B/0











B/0

WORK 1000 FT W20-1B

ROAD

B/0







B/0

B/0



DETOUR







B/0





B/0









W20-5C







B/0







RIGHT SURVEY CREW SHOULDER CLOSED W21-5a W21-6

B/0

B/0

BLASTING UTILITY ZONE AHEAD W21-7

B/0

AHEAD W22-1

B/0

TURN OFF 2-WAY RADIO AND CELL PHONE

W22-2



B/0

#### NOTES:

- 1. The size of diamond shaped Temporary Traffic Control (TTC) warning signs shall be a minimum of 48" X 48".
- 2. Fluorescent orange shall be used for all orange colored work zone signs.
- 3. The sign shields, symbols and messages contained on this sheet are provided for ready reference to those signs used in the development of the 102 Series of Indexes and are commonly used in the development of traffic control plans. For additional signs and sign detail information refer to the STANDARD HIGHWAY SIGNS MANUAL as specified in the MUTCD. Special signs for traffic control plans will be as approved by the State Traffic Plans Engineer.

The sign codes shown on this sheet are for the purpose of identifying cell names found in the Traffic Control Cell Library (TCZ.Cel).

The STANDARD HIGHWAY SIGNS MANUAL should be referenced for the official sign codes for use in the development of traffic control plans.

See Index 700-102 for MOT sign details.

## COLOR CODES:

Legend and/or Symbol Background

R-Red (Reflectorized) Y-Yellow (Reflectorized) G-Green (Reflectorized) O-Orange (Reflectorized) B-Black (Non-Reflectorized) W-White (Reflectorized)

COMMONLY USED WARNING AND REGULATORY SIGNS IN WORK ZONES

LAST REVISION 11/01/21

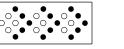
DESCRIPTION:



INDEX

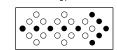


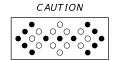






• 0 0 0 0 0





*MOVE/MERGE LEFT* 

MOVE/MERGE RIGHT

MOVE/MERGE RIGHT OR LEFT

Minimum Required LampsAdditional Lamps Allowed

MODES -

#### NOTES:

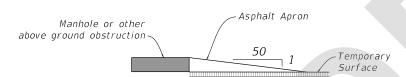
An arrow board in the arrow or chevron mode shall be used only for stationary or moving lane closures on multilane roadways.

For shoulder work, blocking the shoulder, for roadside work near the shoulder, or for temporarily closing one lane on a two-lane, two-way roadway, an arrow board shall be used only in the caution mode.

A single arrow board shall not be used to merge traffic laterally more than one lane. When arrow boards are used to close multiple lanes, a single board shall be used at the merging taper for each closed lane.

When Advance Warning Arrow Boards are used at night, the intensity of the flashers shall be reduced during darkness when lower intensities are desirable.

#### = ADVANCE WARNING ARROW BOARDS =



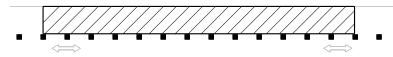
#### NOTES:

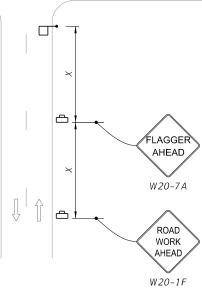
Manholes extending 1" or more above the travel lane and crosswalks having an uneven surface greater than  $V_4$ " shall have a temporary asphalt apron constructed as shown in the diagram below.

All transverse joints that have a difference in elevation of 1" or more shall have a temporary asphalt apron constructed as shown in the diagram below.

The apron is to be removed prior to constructing the next lift of asphalt. The cost of the temporary asphalt shall be included in the contract unit price for Maintenance of Traffic, LS.

= MANHOLES/CROSSWALKS/JOINTS =====





#### NOTE

Optionally, use "Flagger Ahead" sign with text (W20-7A) instead of "Flagger Ahead" sign with symbol (W20-7).

#### SIDE ROAD INTERSECTING THE WORK ZONE =

#### SIGNALS:

Existing traffic signal operations that require modification in order to carry out work zone traffic control shall be included in the Plans and be approved by the District Traffic Operations Engineer.

Refer to Specification 102-9 for additional information.

#### CHANNELIZING DEVICES:

Channelizing devices for work zone traffic control shall be as prescribed in Part VI of the MUTCD, subject to supplemental revisions provided in the contract documents and the 102 Series of Indexes. Lighting Devices must not be used to supplement channelization.

#### CHANNELIZING DEVICE CONSISTENCY:

Barricades, vertical panels, cones, tubular markers and drums shall not be intermixed within either the lateral transition or within the tangent alignment.

#### TRUCK/TRAILER-MOUNTED ATTENUATORS:

Truck/Trailer-mounted attenuators (TMA) can be used for moving operations and short-term stationary operations. For moving operations, see Index 102-607. For short-term, stationary operations, see Part VI of the MUTCD.

2-21-10 PM