
ORIGINATION FORM

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

Contact Information:

Date: June 2, 2020
Originator: Rick Jenkins
Phone: (850) 414-4355
Email: rick.jenkins@dot.state.fl.us

Standard Plans:

Index Number: 711-001
Sheet Number (s): 5, 6, 7, 8, and 11
Index Title: Pavement Markings

Summary of the changes:

- Sheet 5: Added nose extension and Tubular Marker to traffic separator; Continue 6" white edge-line marking around radius at curb.
- Sheet 6: Added nose extension and Tubular Marker to traffic separator; Continue 6" white edge-line marking around radius at curb.
- Sheet 7: Changed from Delineators to Tubular Markers on traffic separator noses; Clarified application limitations for delineators on grass medians.
- Sheet 8: Added Tubular Markers to island noses for channelization purposes. (Please note, Ben Gerrell is proposing additional changes to these details and the Tubular Markers will need to be part of his new details.)
- Sheet 11: Deleted table; Delete top two details.

Commentary / Background:

See Page 2.

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

- | Yes | No | |
|--------------------------|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Standard Plans – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Standard Specifications – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance – |

Origination Package Includes:

(Email or hand deliver package to Rick Jenkins)

- | Yes | N/A | |
|-------------------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Redline Mark-ups |
| <input type="checkbox"/> | <input type="checkbox"/> | Proposed Standard Plan Instruction (SPI) |
| <input type="checkbox"/> | <input type="checkbox"/> | Revised SPI |
| <input type="checkbox"/> | <input type="checkbox"/> | 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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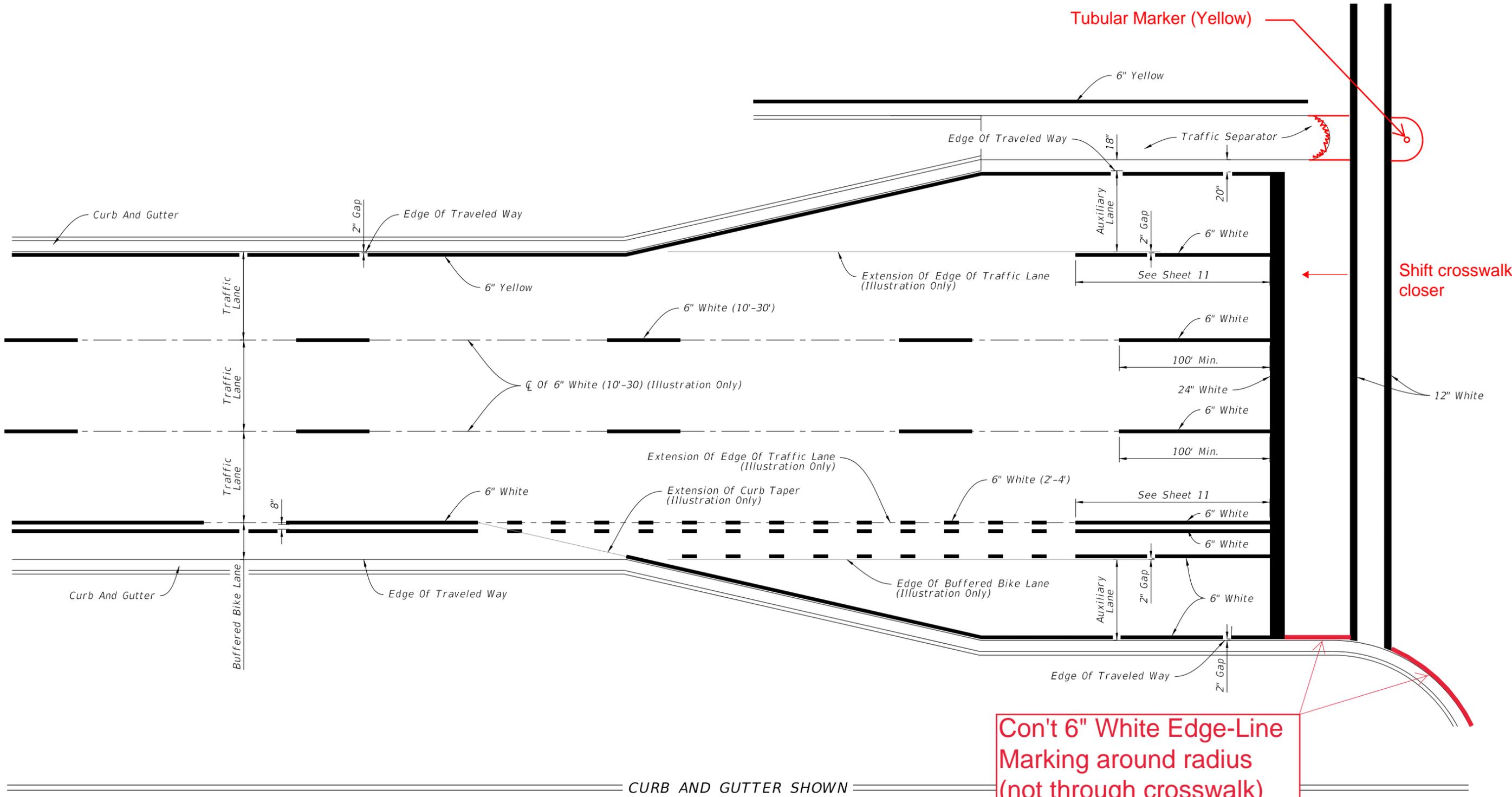
Sheet Number (s): 5, 6, 7, 8, and 11

Index Title: Pavement Markings

Additional Information, as needed:

Confusion between FDM 212-1 and Index 711-001 Sheet 11. FDM is for design purposes, Design Speeds. Index is intended for multiple users on the back end (i.e., Construction and Maintenance), and used Posted Speed. L1 is longer than 100' taper in posted speed less than 45mph. Maybe delete from Index

The FDOT Design Manual criteria is being updated for the 2021 release to include nose extensions for medians and traffic separators or hardened centerlines to improve pedestrian safety in crosswalks. Tubular markers will now be used as channelizing devices on arterials and collectors in these and other applications. See next sheet for information on Tubular Markers.



Con't 6" White Edge-Line Marking around radius (not through crosswalk)

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

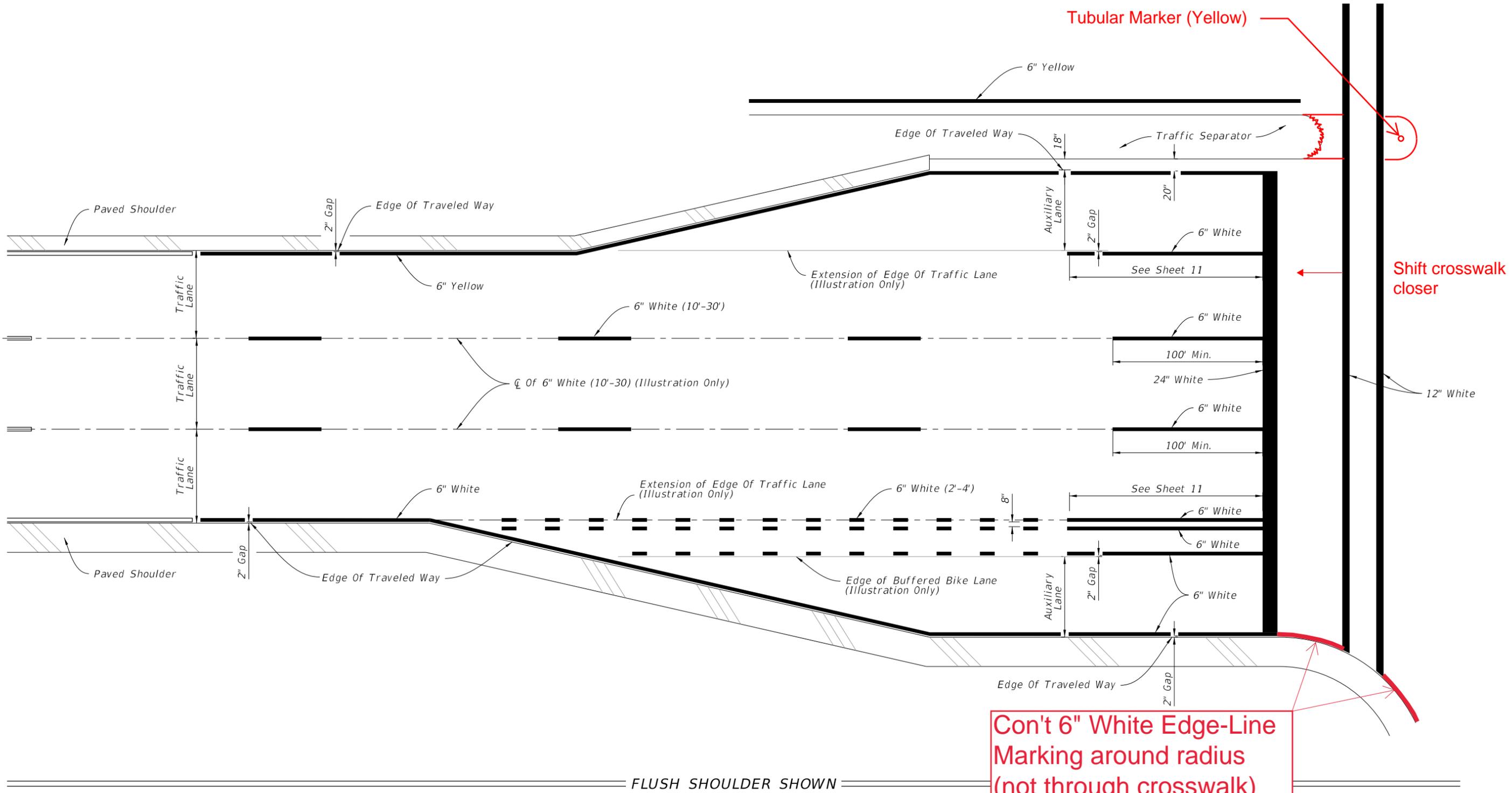
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11/01/20	


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STANDARD PLANS

PAVEMENT MARKINGS

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Con't 6" White Edge-Line Marking around radius (not through crosswalk)

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

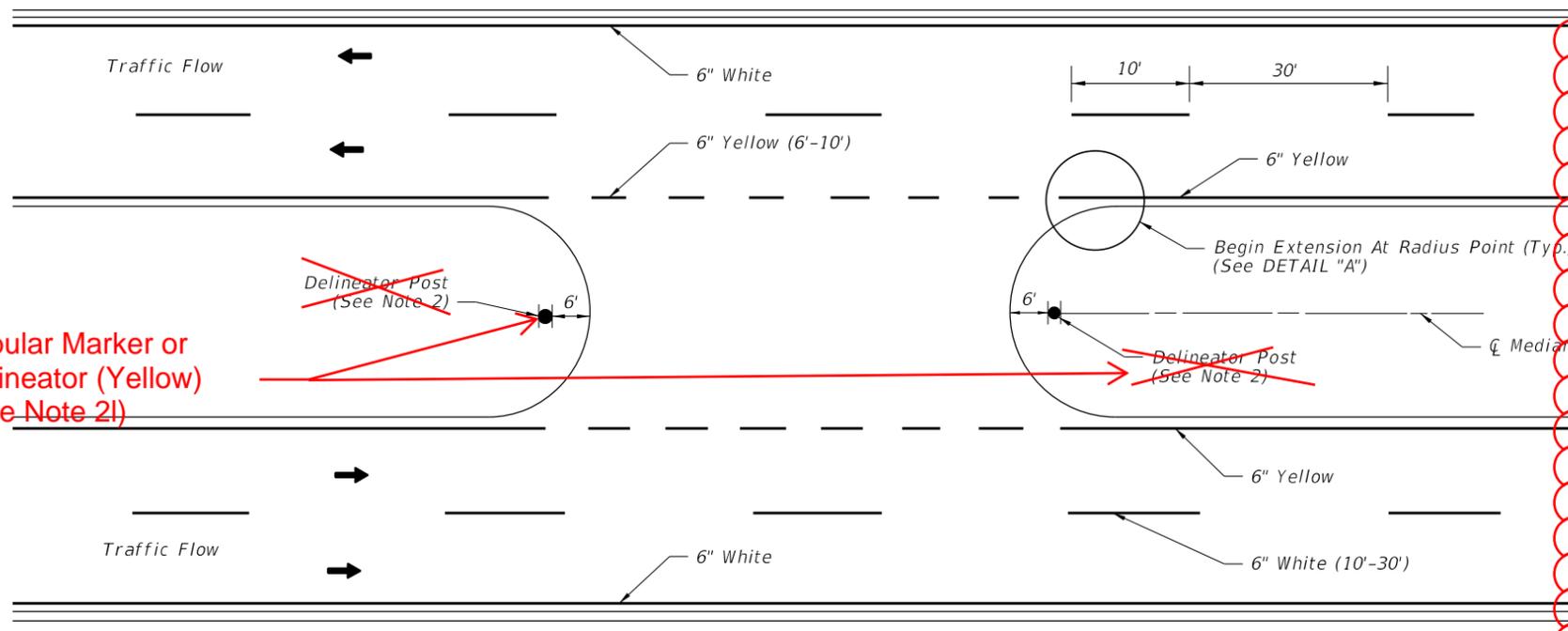
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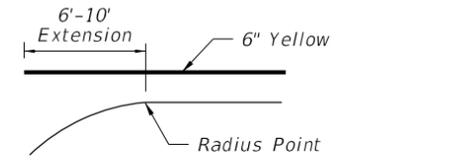

 FY 2020-21
 STANDARD PLANS

PAVEMENT MARKINGS

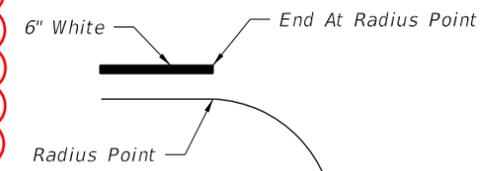
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ADDED:
Detail showing a Non-Paved Surface Foundation for attaching a Tubular Marker

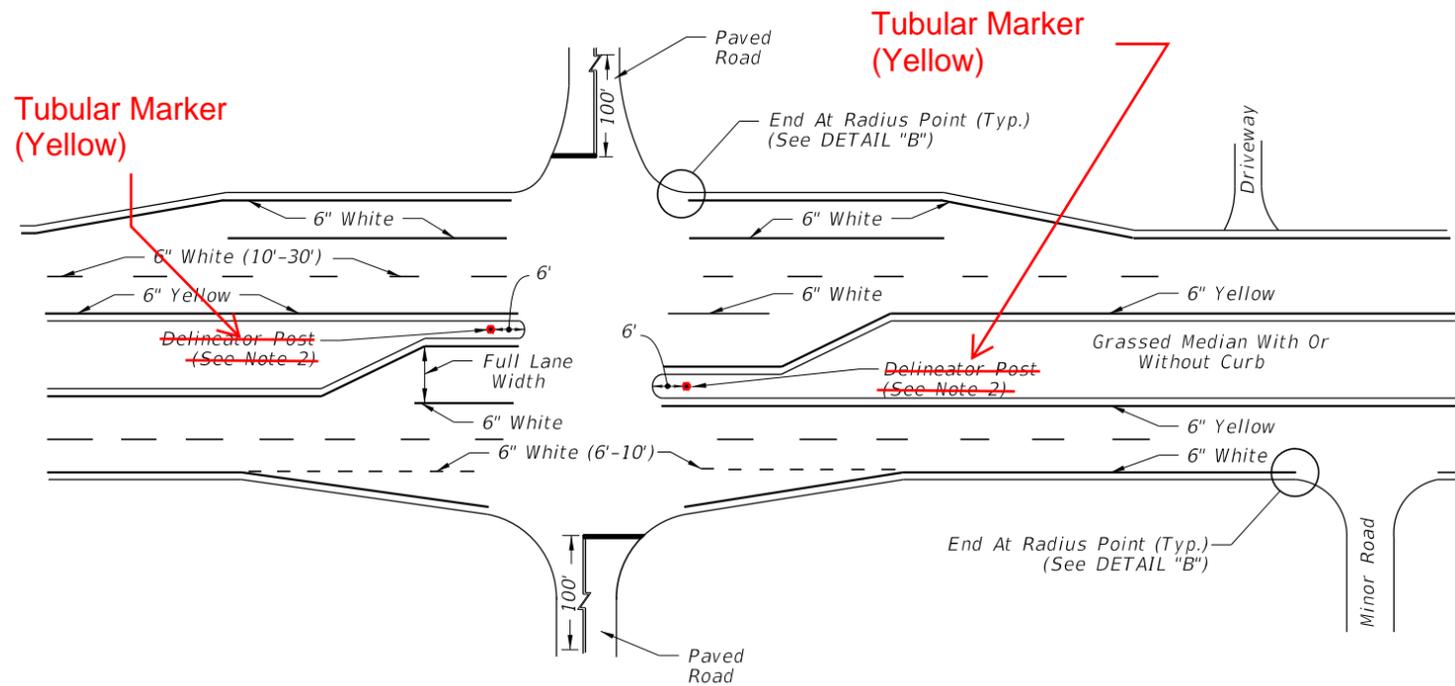


DETAIL "A"



DETAIL "B"

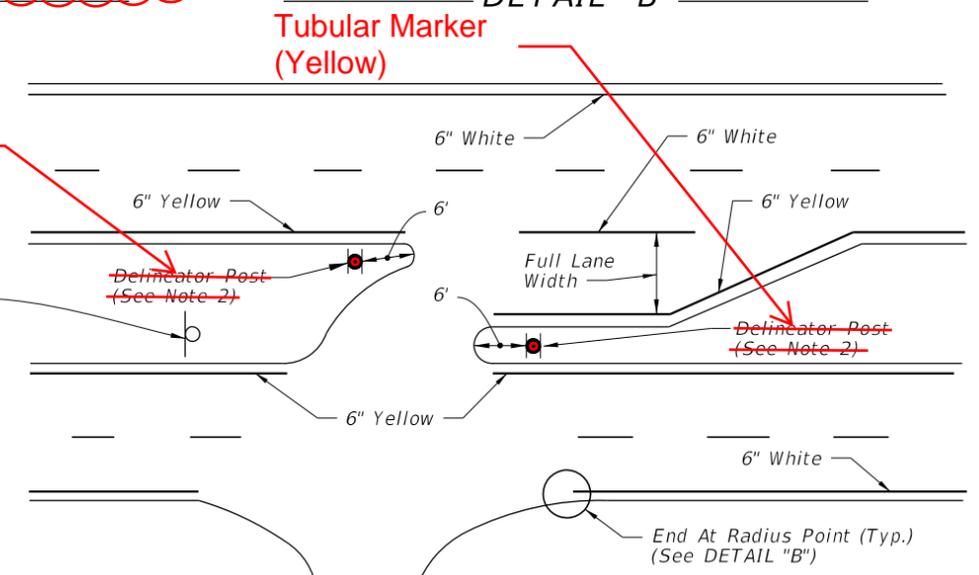
PAVEMENT MARKINGS AND DELINEATORS FOR MEDIAN CROSSOVER



Tubular Marker (Yellow)

Tubular Marker (Yellow)

Tubular Marker (Yellow)



Tubular Marker (Yellow)

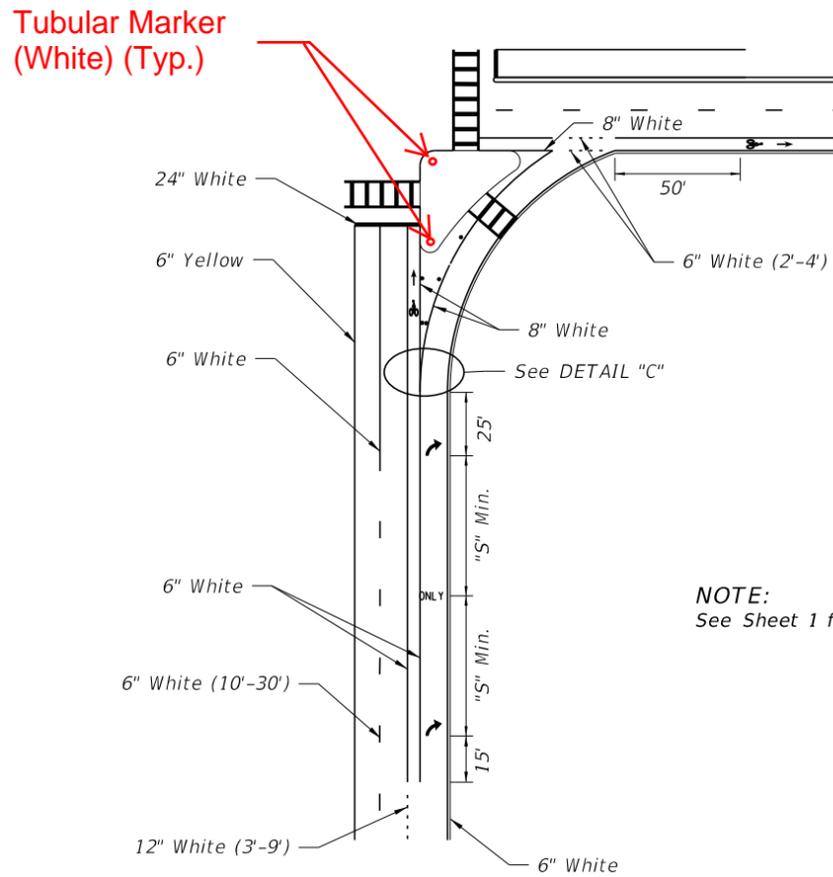
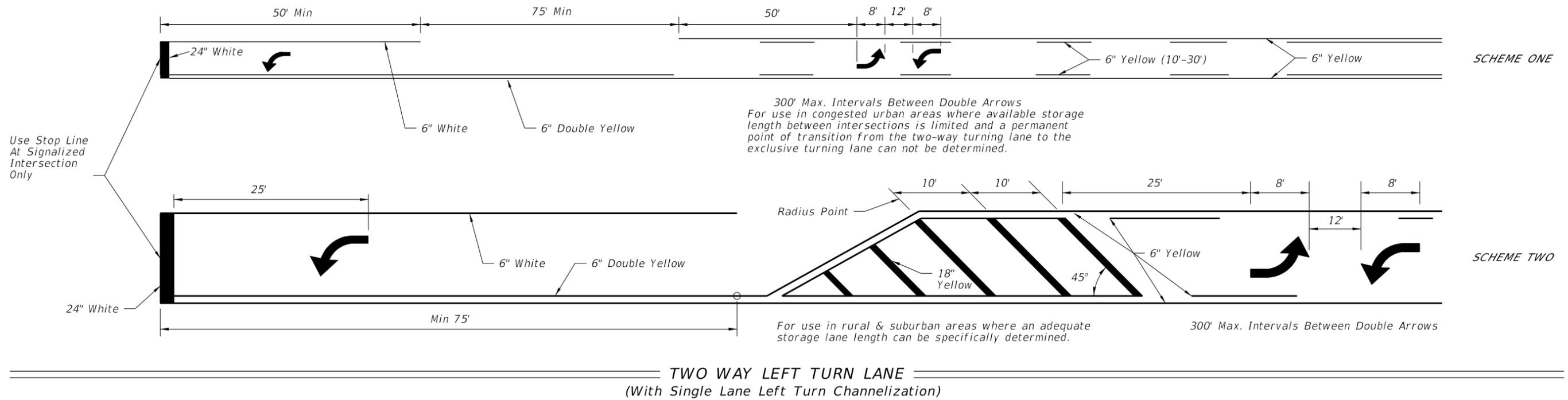
- NOTE:**
1. Apply yellow reflective paint to the noses of curbed medians, traffic separators, and raised islands. When applying yellow reflective paint in conjunction with Raised Pavement Markers, see Index 706-001.
 2. Use yellow retro-reflective sheeting on both sides of the delineator. Install the post so that the top is 4' above the grade at the edge of the pavement.
 3. Extend double yellow centerlines 100' back from intersection on all approaches or 50' for unmarked cross roads.

Changed: Note 2

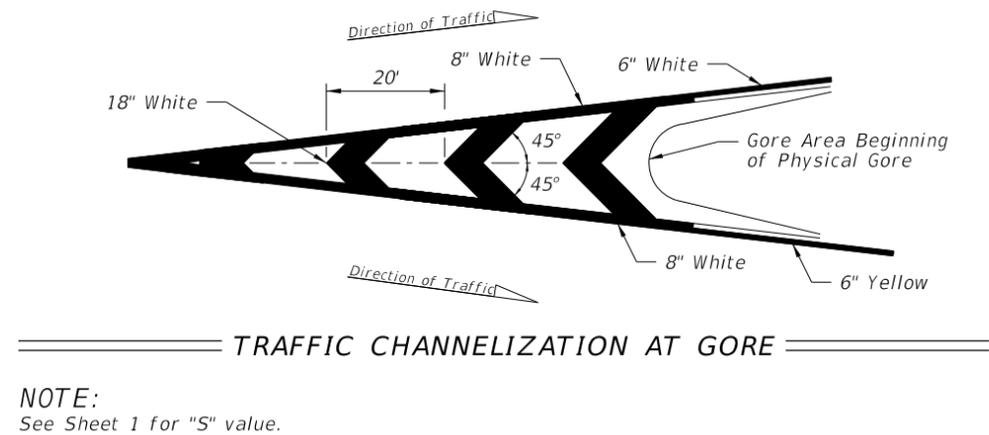
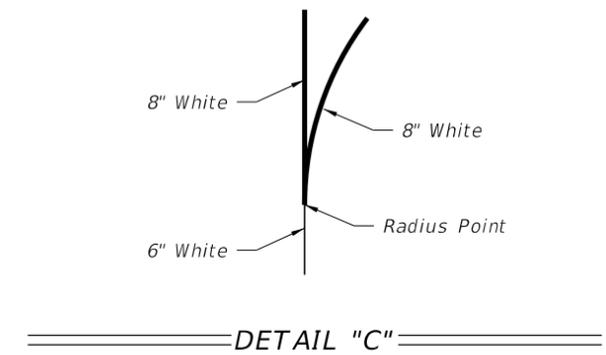
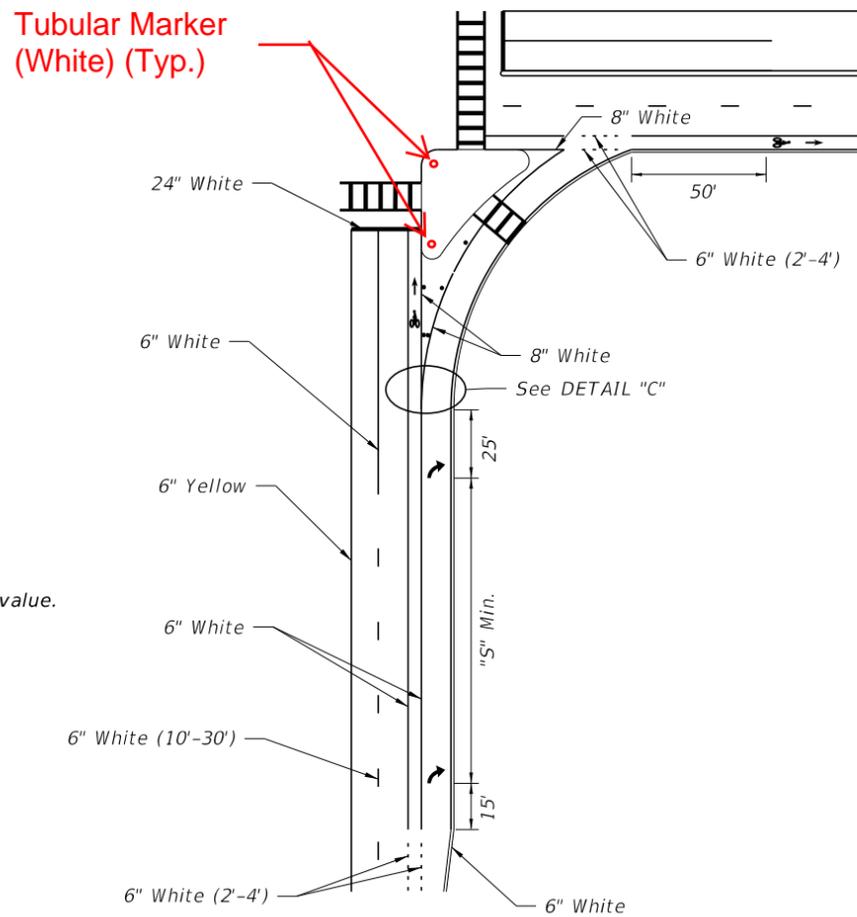
PAVEMENT MARKINGS FOR INTERSECTIONS WITH MAJOR AND MINOR ROADS

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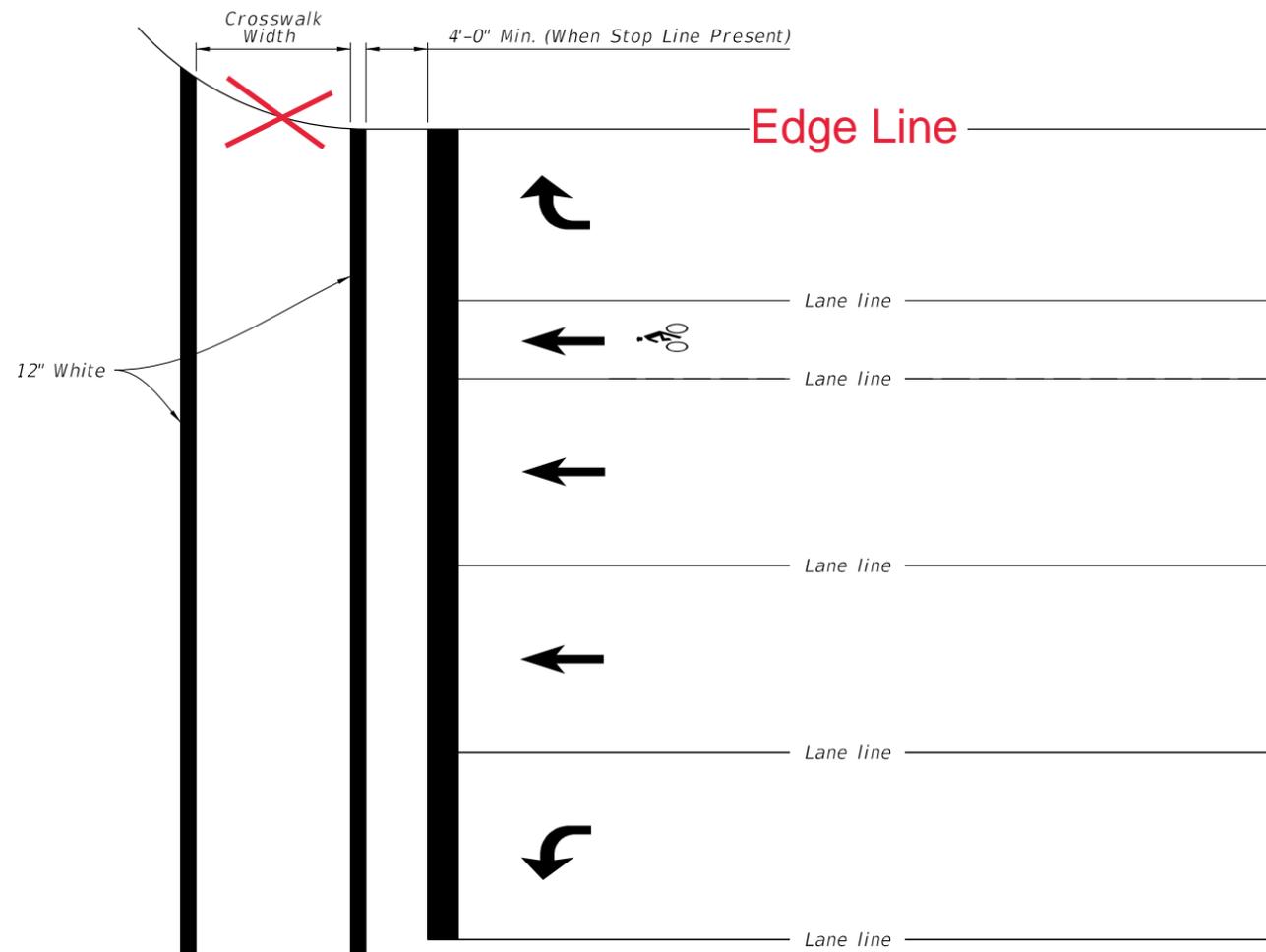


NOTE:
 See Sheet 1 for "S" value.

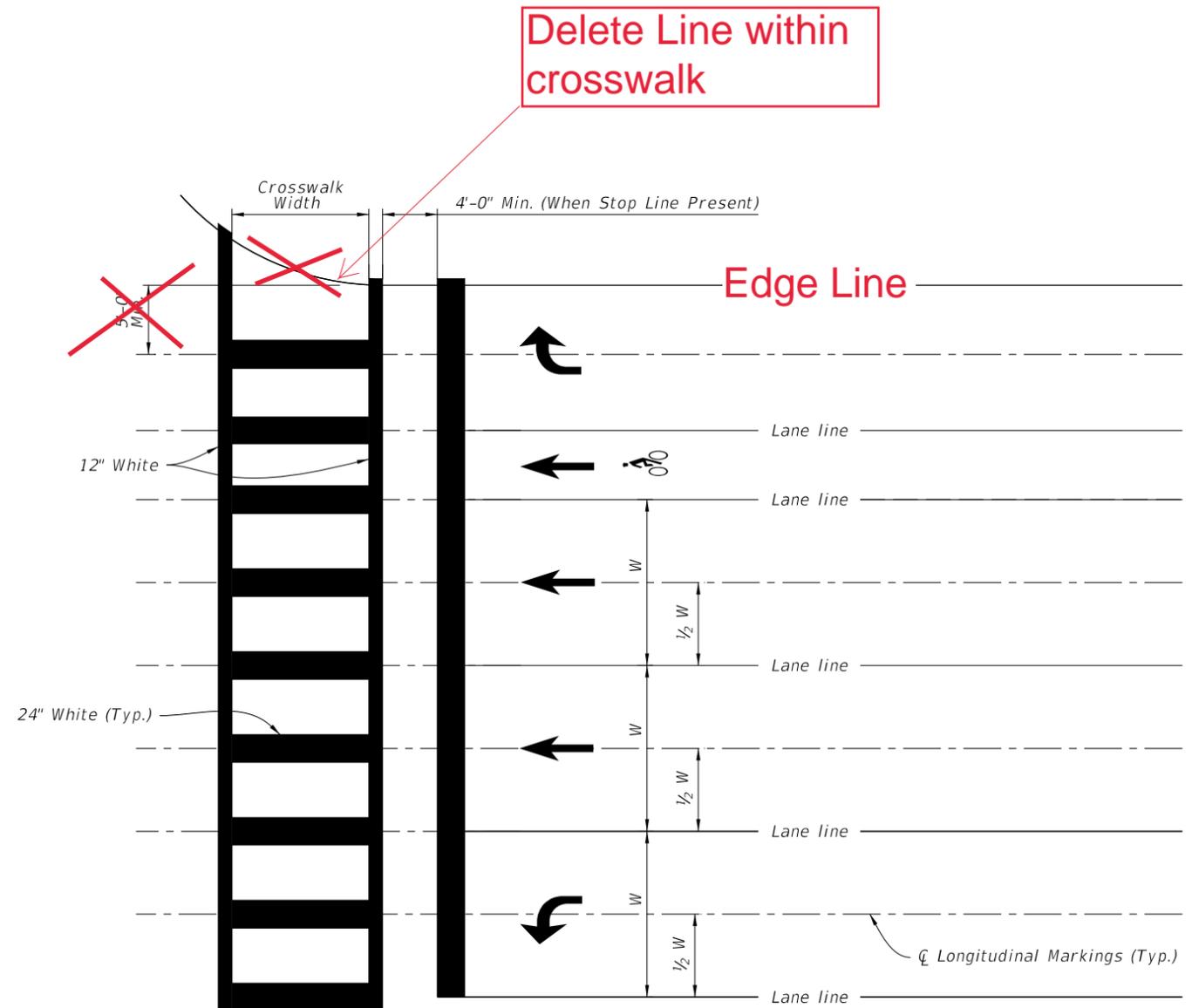


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STANDARD CROSSWALK DETAILS



SPECIAL EMPHASIS CROSSWALK DETAILS

NOTES:

1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.
2. When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.
3. Refer to Index 522-002 when Curb Ramps are present.

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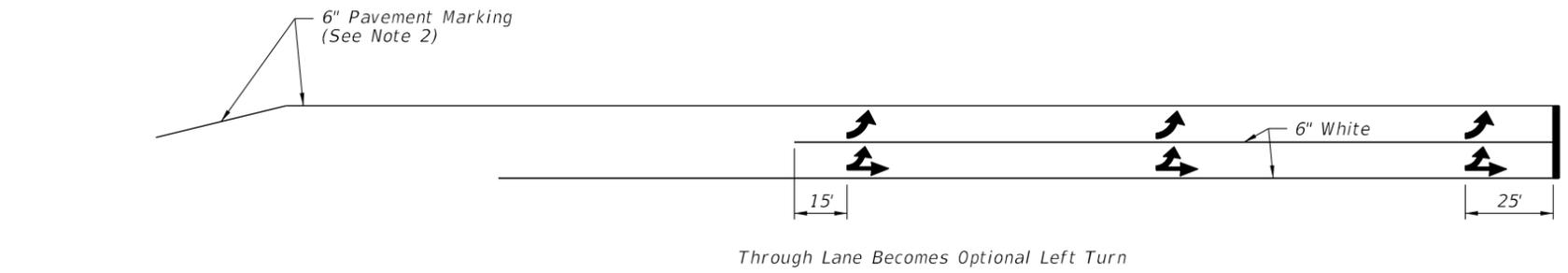
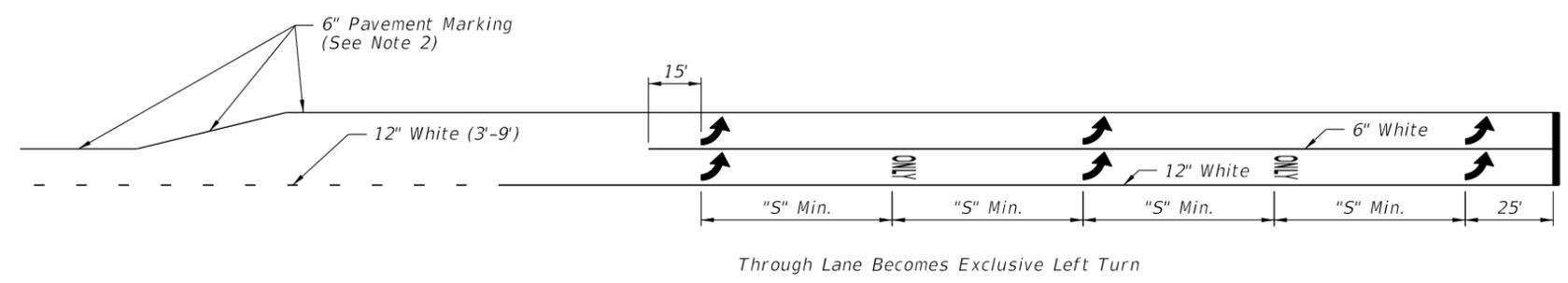
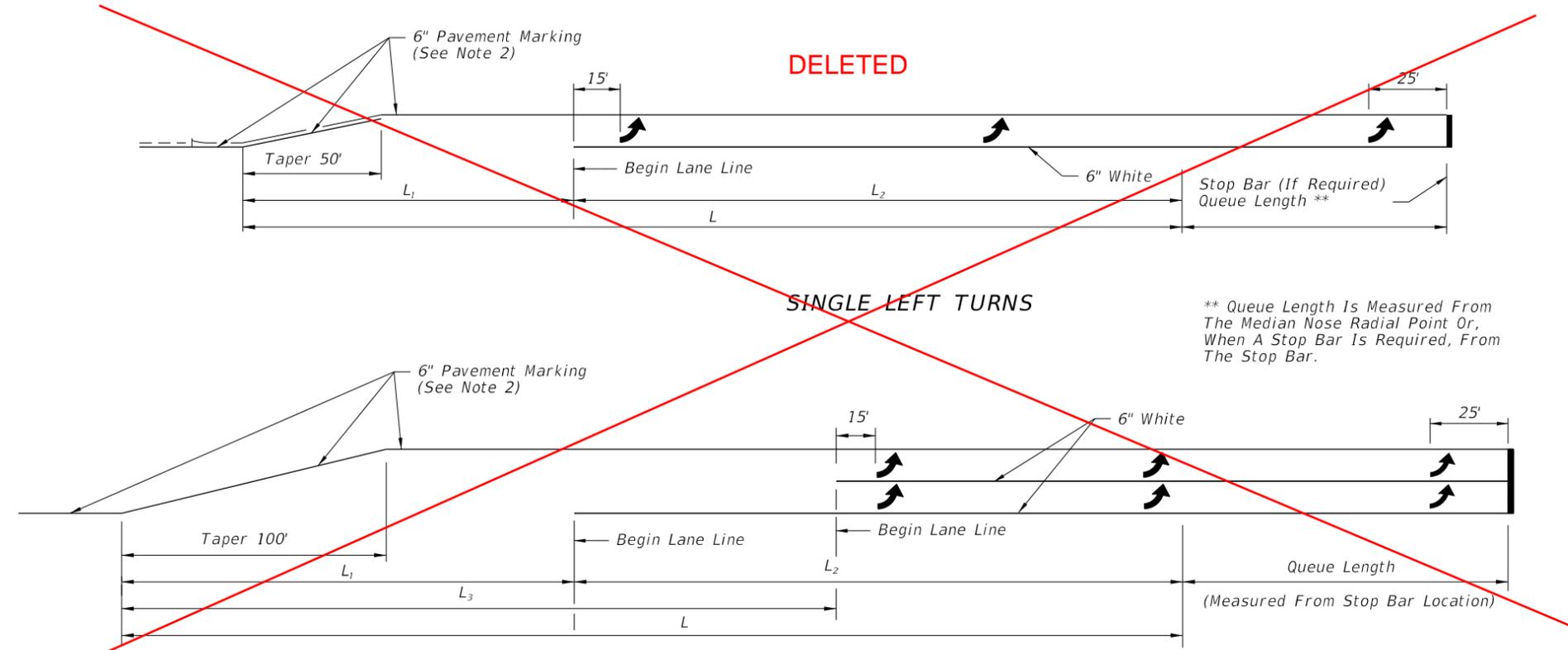
TURN LANES - CURBED AND UNCURBED MEDIANS

Posted Speed (mph)	Clearance Distance	URBAN CONDITIONS			RURAL CONDITIONS		
		Brake To Stop Distance	Total Decel. Distance	Clearance Distance	Brake To Stop Distance	Total Decel. Distance	Clearance Distance
	L_1	L_2	L	L_3	L_2	L	L_3
≤30	70'	75'	145'	110'	---	---	---
35	80'	75'	155'	120'	---	---	---
40	85'	100'	185'	135'	---	---	---
45	105'	135'	240'	160'	185'	290'	160'
50	125'	---	---	---	225'	350'	195'
55	145'	---	---	---	260'	405'	230'
≥60	170'	---	---	---	290'	460'	270'

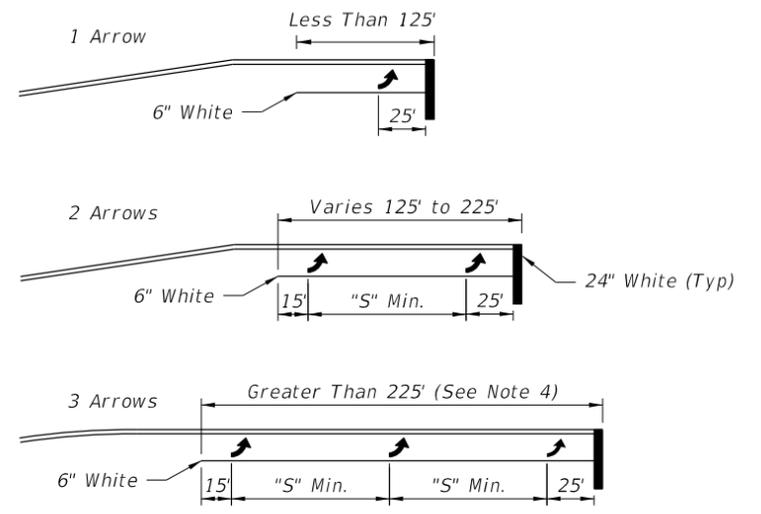
NOTE: When installing lane lines for turn lanes, use the dimensions in the Plans, or use the above values for turn lanes not dimensioned in the Plans.

SINGLE LEFT TURNS

** Queue Length Is Measured From The Median Nose Radial Point Or, When A Stop Bar Is Required, From The Stop Bar.



DOUBLE LEFT TURNS



~~ARROW SPACING~~

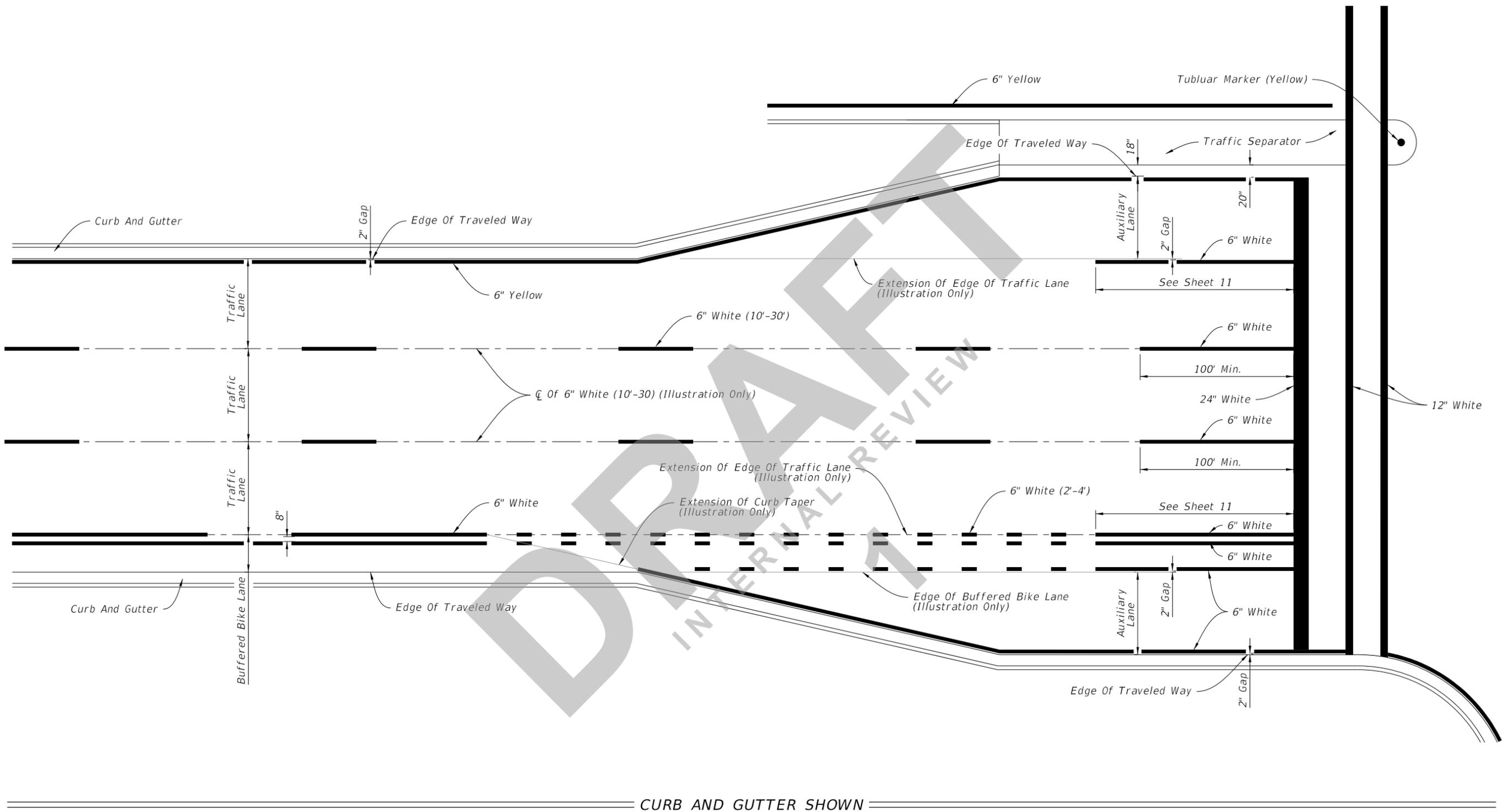
SINGLE LEFT TURNS

- NOTES:**
- This Index also applies to right turn lanes.
 - Make pavement marking yellow for left-turn lanes and white for right-turn lanes.
 - See Sheet 1 for "S" value.
 - Space arrows evenly between the first and last arrow with a minimum spacing of "S" between arrows.
 - For turn lanes greater than 225' in length, use a minimum of three arrows. Use additional arrows in accordance with the Plans or as directed by the Engineer. Space arrows evenly throughout the available length with a minimum spacing of "S" between arrows.

TURN LANE MARKINGS

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PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

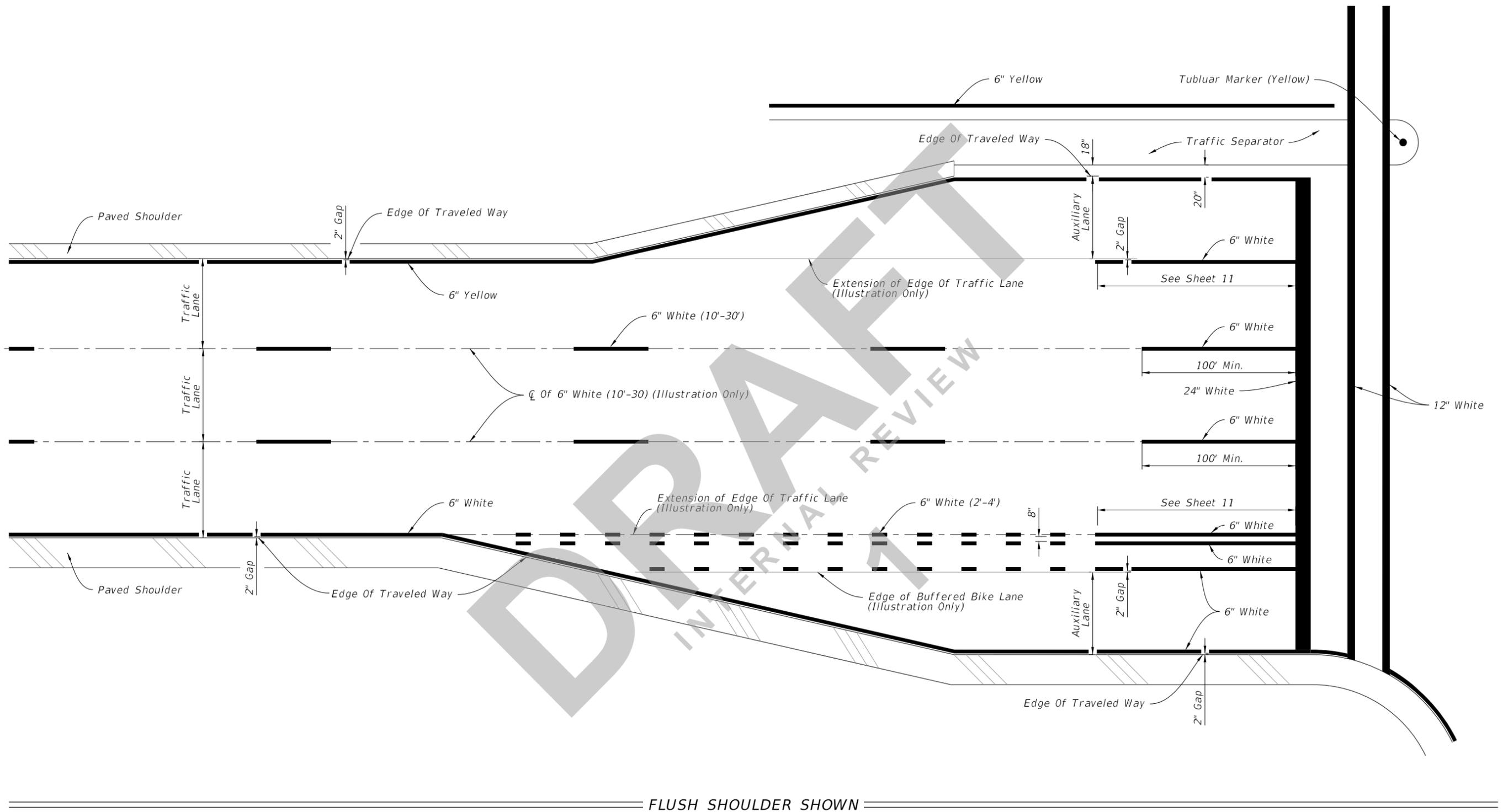
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PAVEMENT MARKINGS

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FLUSH SHOULDER SHOWN

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

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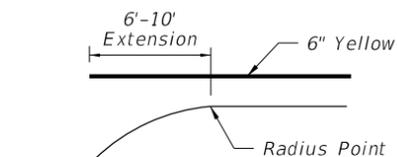
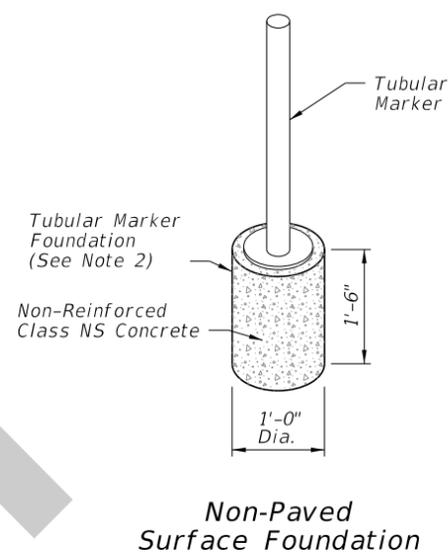
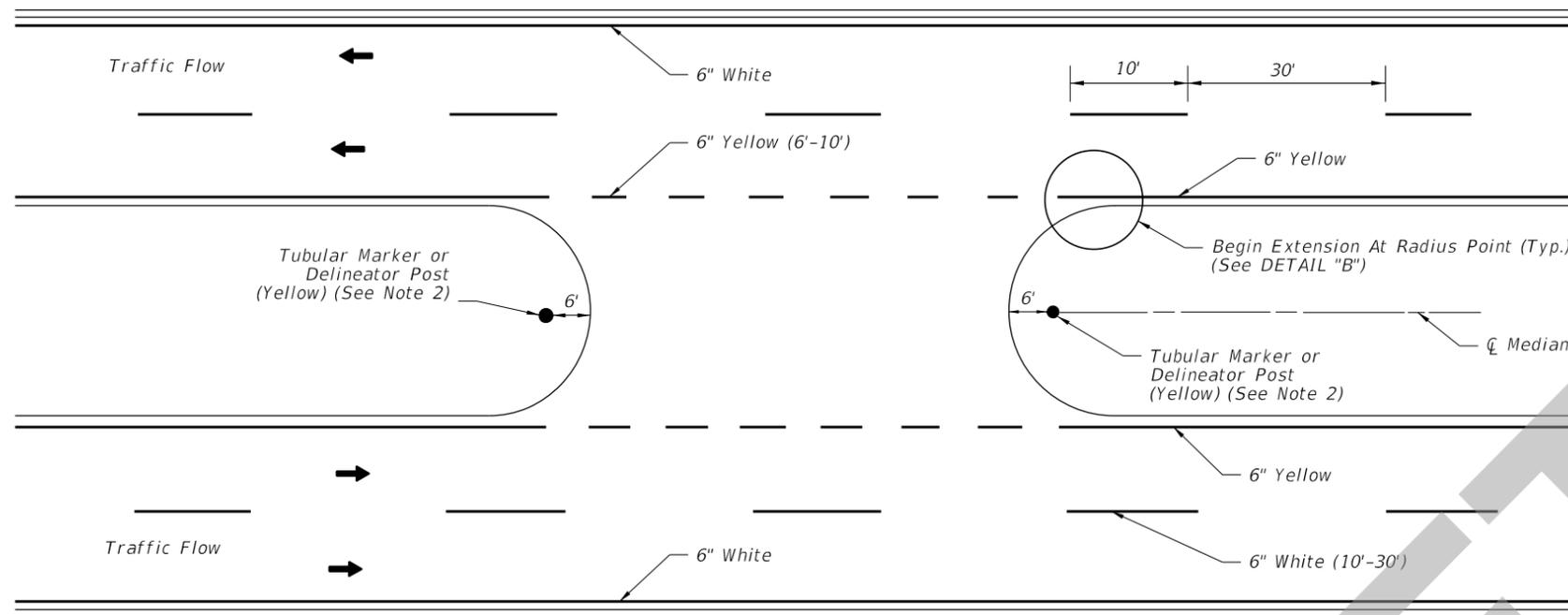


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STANDARD PLANS

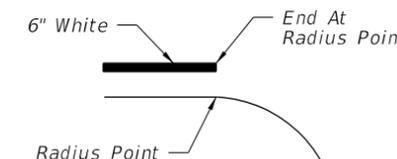
PAVEMENT MARKINGS

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DETAIL "B"

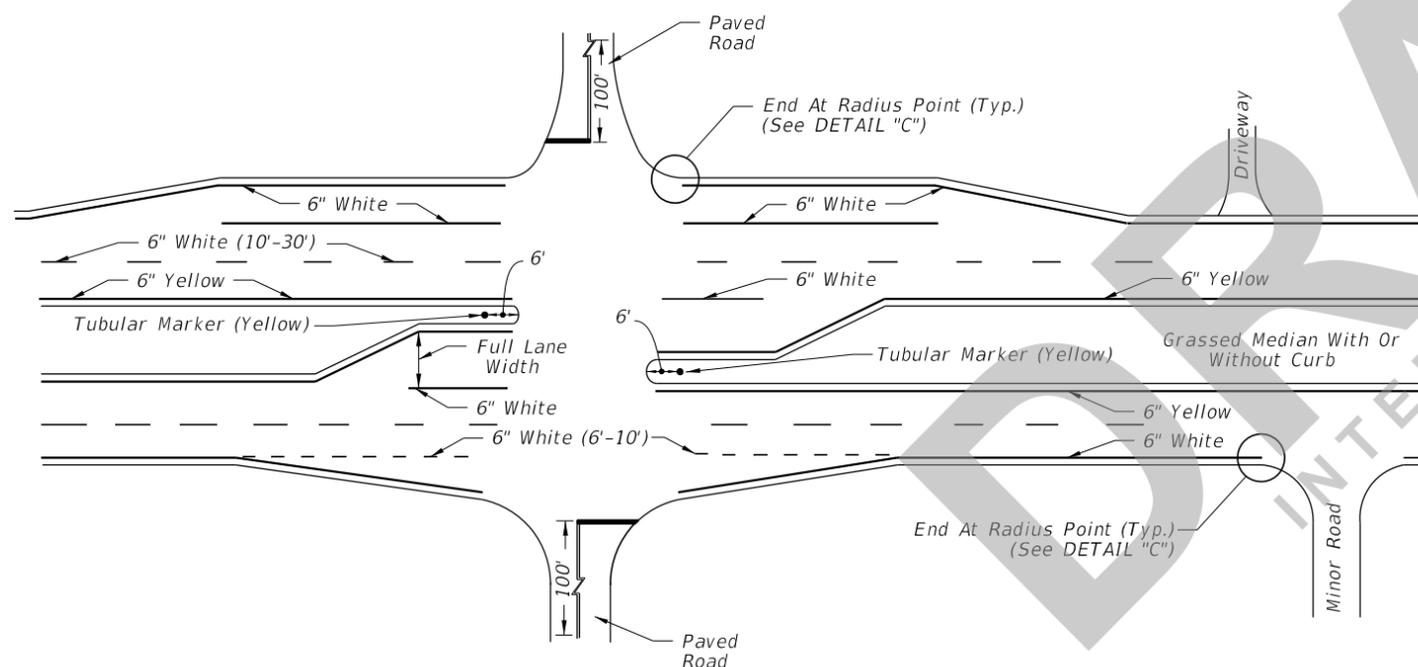


DETAIL "C"

PAVEMENT MARKINGS AND DELINEATORS FOR MEDIAN CROSSOVER

DETAIL "A"

DETAIL "C"



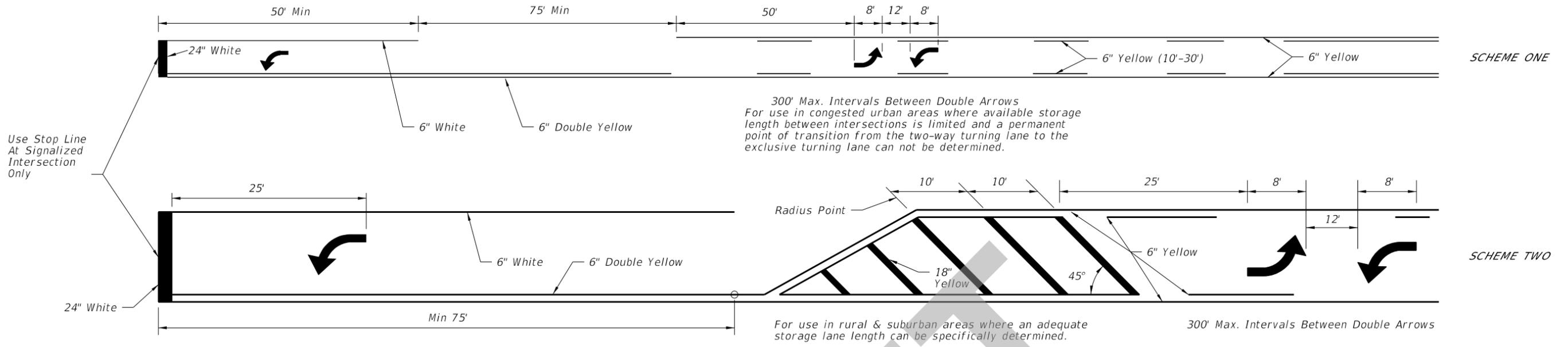
NOTE:

1. Apply yellow reflective paint to the noses of curbed medians, traffic separators, and raised islands. When applying yellow reflective paint in conjunction with Raised Pavement Markers, see Index 706-001.
2. Options for grassed medians:
 - A. Option 1: Tubular Marker (Yellow). Attach Tubular Marker according to manufacturer's instructions. Non-Paved Surface Foundation (See Detail "A") is provided as an option if no other suitable surface is provided.
 - B. Option 2: Delineator Post. Use yellow retro-reflective sheeting on both sides of the delineator. Install the post so that the top is 4'-0" above the grade at the edge of the pavement.
3. Extend double yellow centerlines 100' back from intersection on all approaches or 50' for unmarked cross roads.

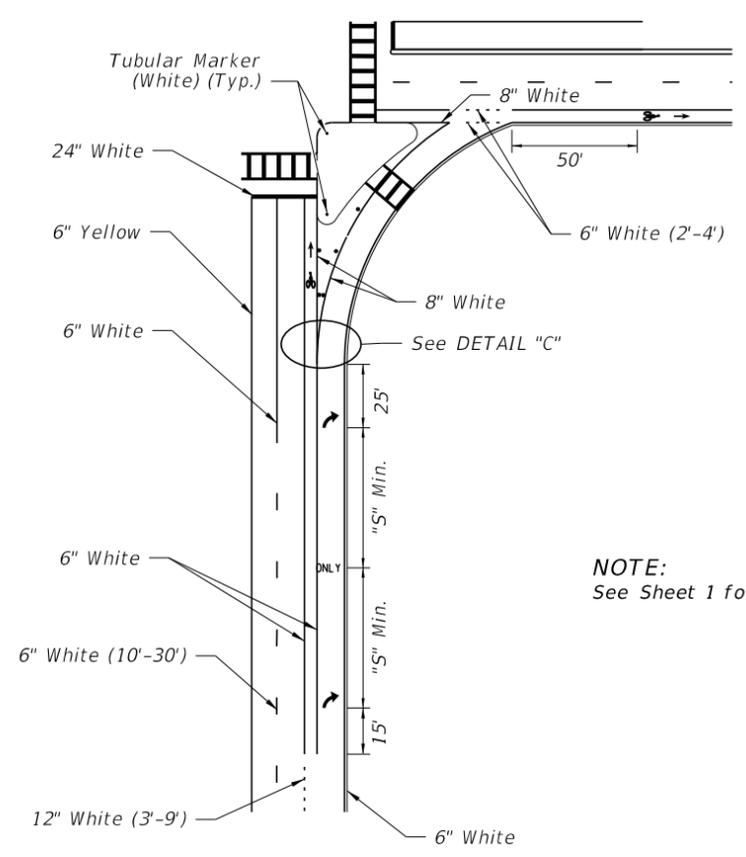
PAVEMENT MARKINGS FOR INTERSECTIONS WITH MAJOR AND MINOR ROADS

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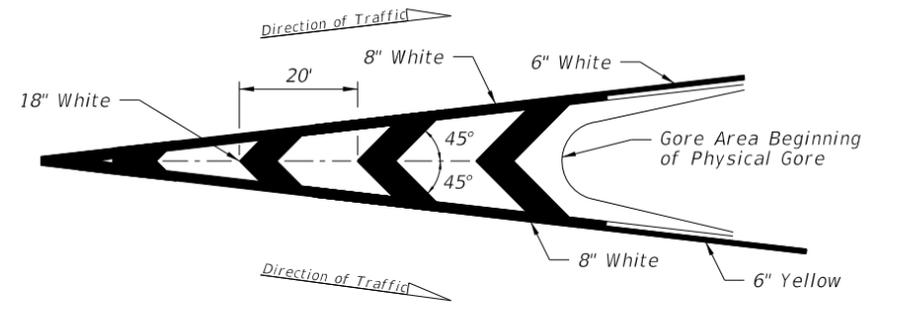
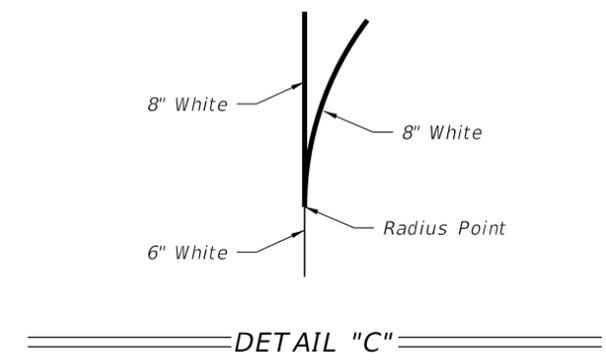
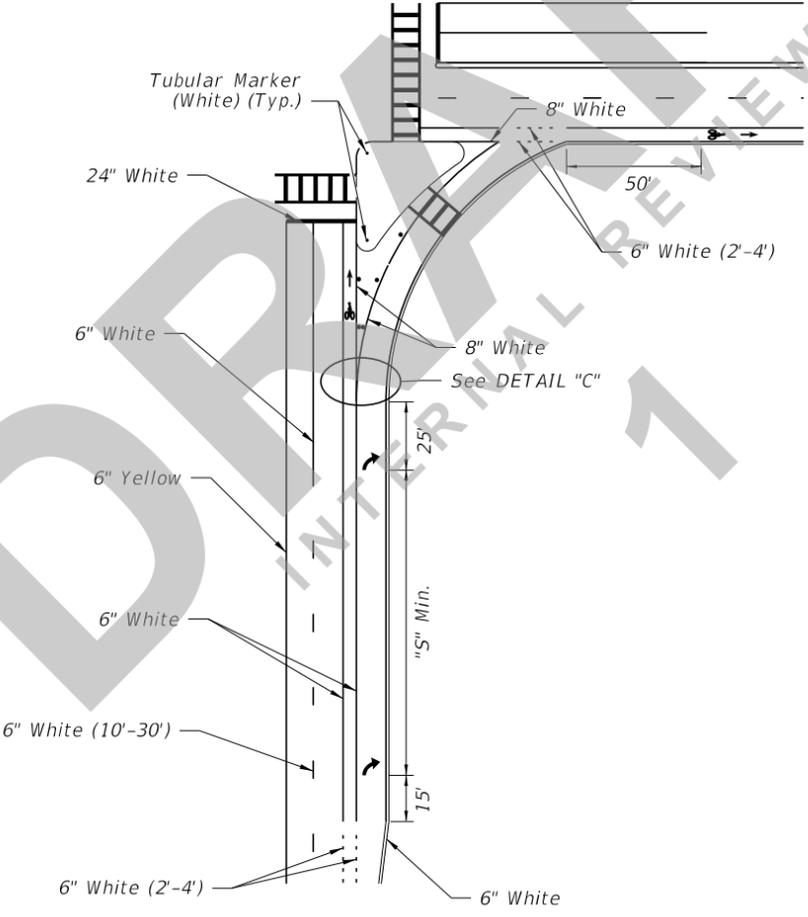
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TWO WAY LEFT TURN LANE
 (With Single Lane Left Turn Channelization)



NOTE:
 See Sheet 1 for "S" value.



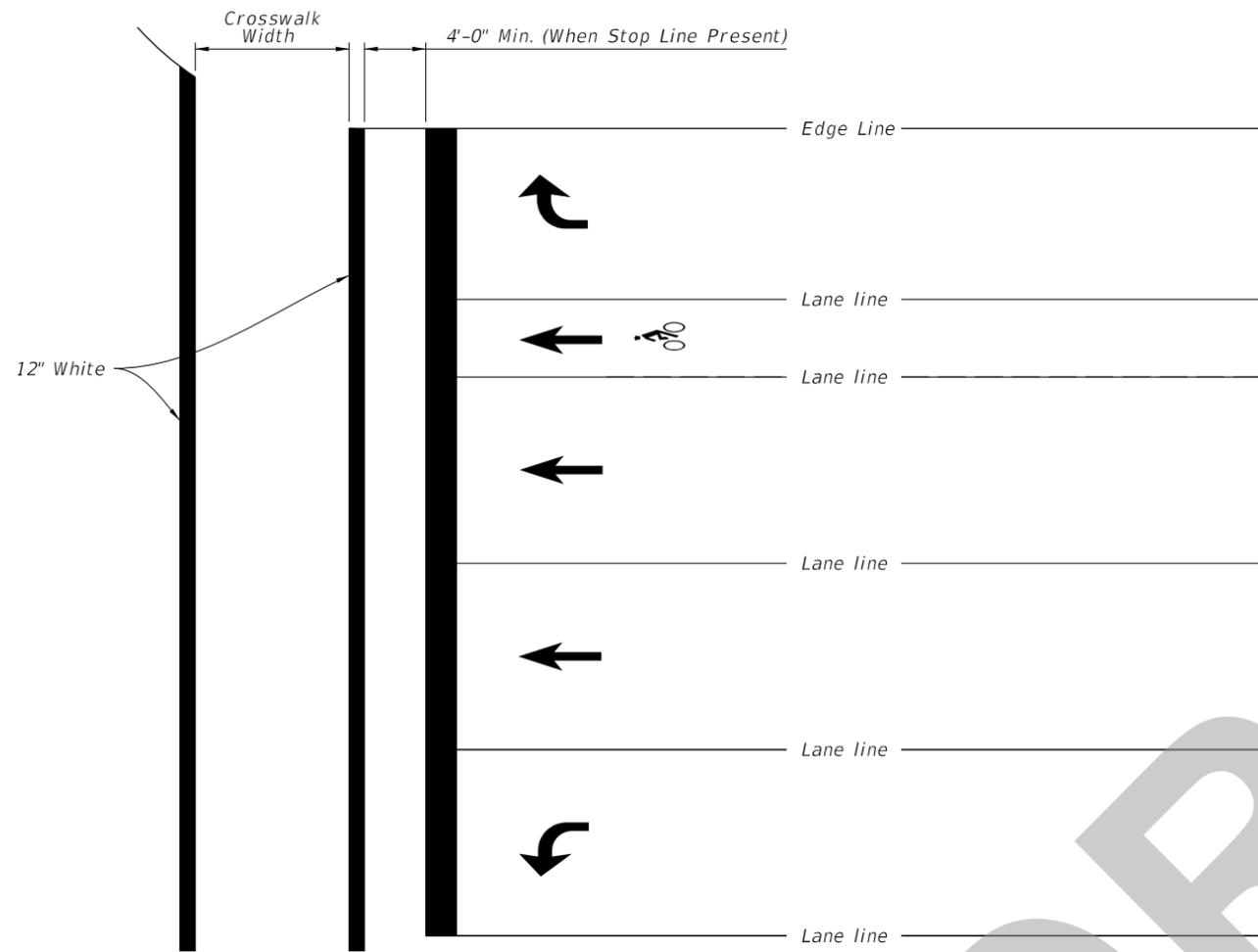
NOTE:
 See Sheet 1 for "S" value.

RIGHT TURN LANE DROP AND ISLAND DETAILS
 LEFT TURN LANE DROP IS MIRROR IMAGE

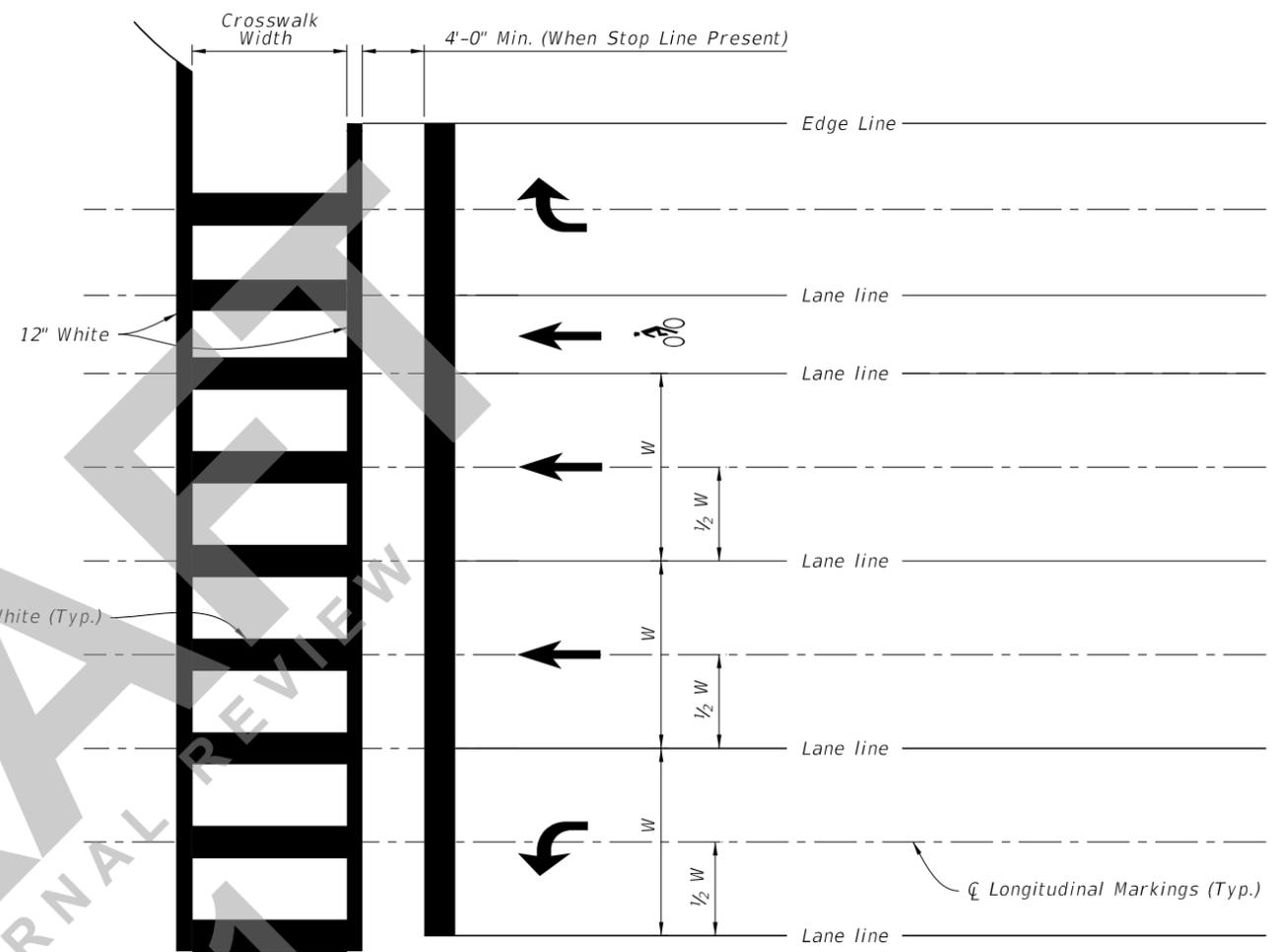
RIGHT TURN LANE AND ISLAND DETAILS

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STANDARD CROSSWALK DETAILS



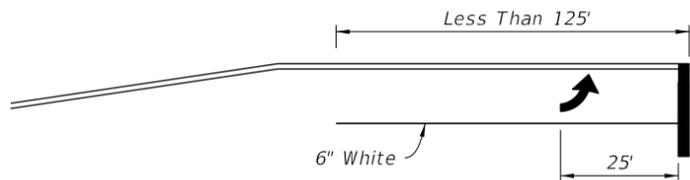
SPECIAL EMPHASIS CROSSWALK DETAILS

NOTES:

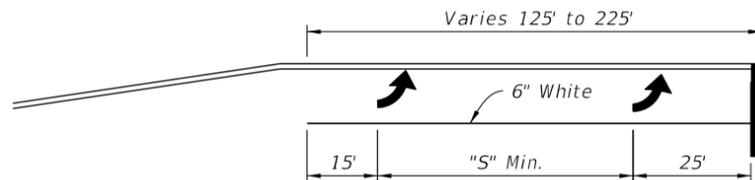
1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.
2. When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.
3. Refer to Index 522-002 when Curb Ramps are present.

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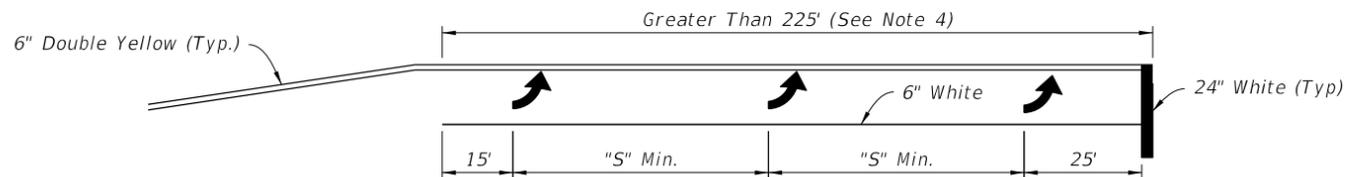
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1 ARROW



2 ARROW

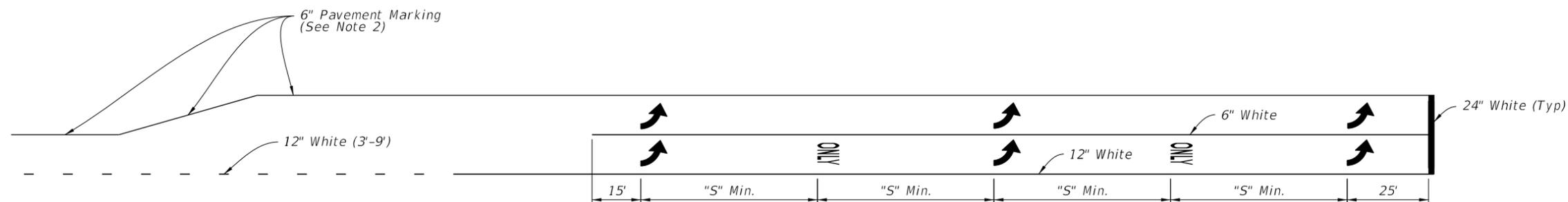


3 ARROW

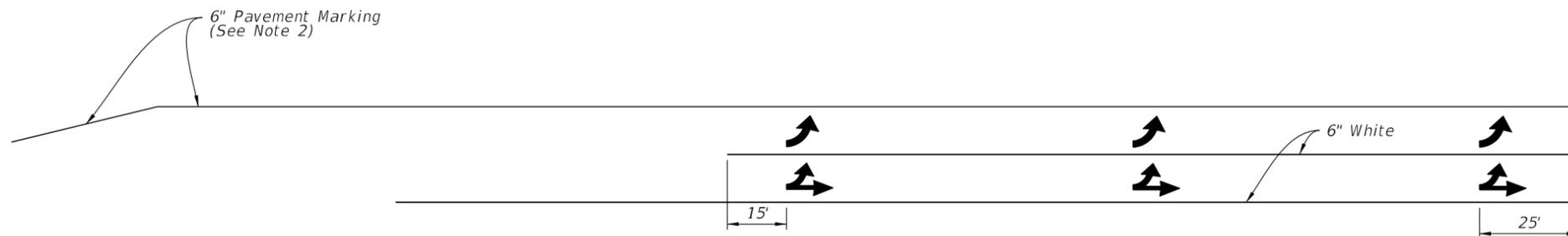
NOTES:

1. This Index also applies to right turn lanes.
2. Make pavement marking yellow for left-turn lanes and white for right-turn lanes.
3. See Sheet 1 for "S" value.
4. Space arrows evenly between the first and last arrow with a minimum spacing of "S" between arrows.
5. For turn lanes greater than 225' in length, use a minimum of three arrows. Use additional arrows in accordance with the Plans or as directed by the Engineer. Space arrows evenly throughout the available length with a minimum spacing of "S" between arrows.

SINGLE LEFT TURNS



Through Lane Becomes Exclusive Left Turn



Through Lane Becomes Optional Left Turn

DOUBLE LEFT TURNS

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TURN LANE MARKINGS