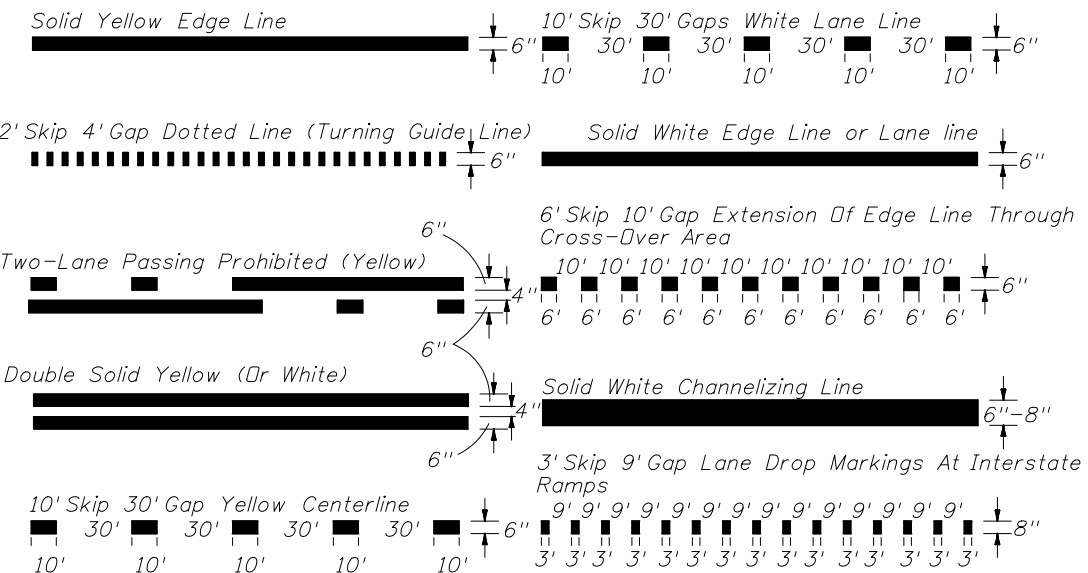


NOTE: When arrow and pavement message are used together, the arrow shall be located down stream of the pavement message and shall be separated from the pavement message by a distance of 15' (Base of the arrow to the base of the message). Stop message shall be placed 15' from back of stop line.

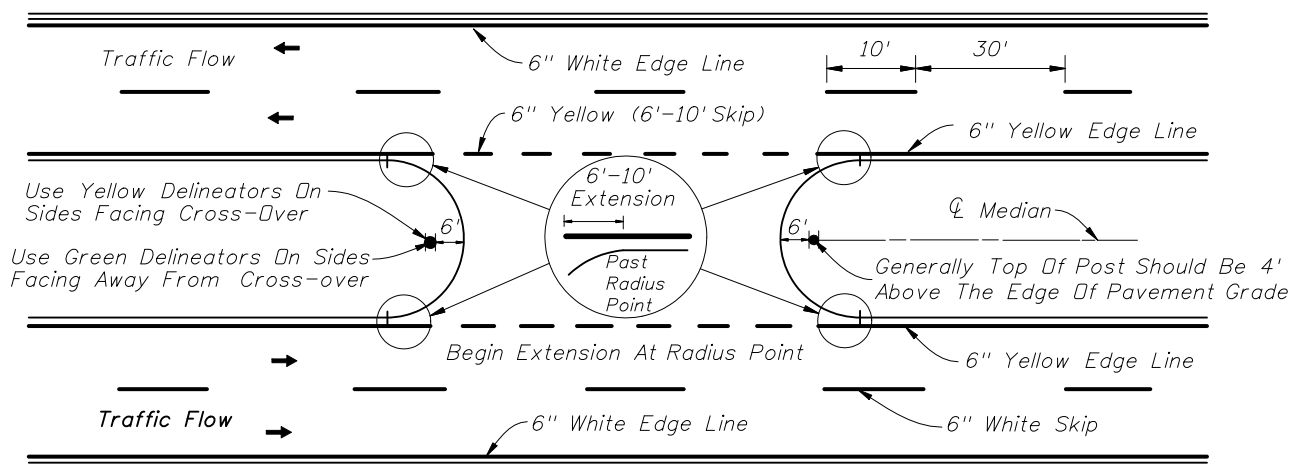
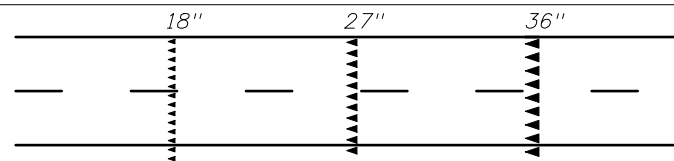
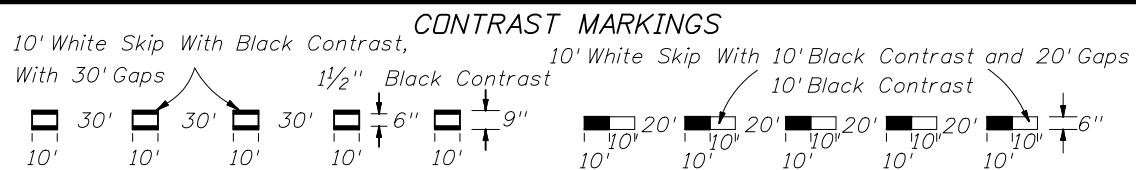
DIMENSIONS ARE WITHIN 1" ±
PAVEMENT ARROW AND MESSAGE DETAILS

BASIC COLOR RULE:

White lines separate traffic in the same direction. Yellow lines separate traffic in opposing directions. Yellow dotted lines may be used in special cases. Black may be used in combination with white for skip lines where a light-colored pavement does not provide sufficient contrast with the markings.

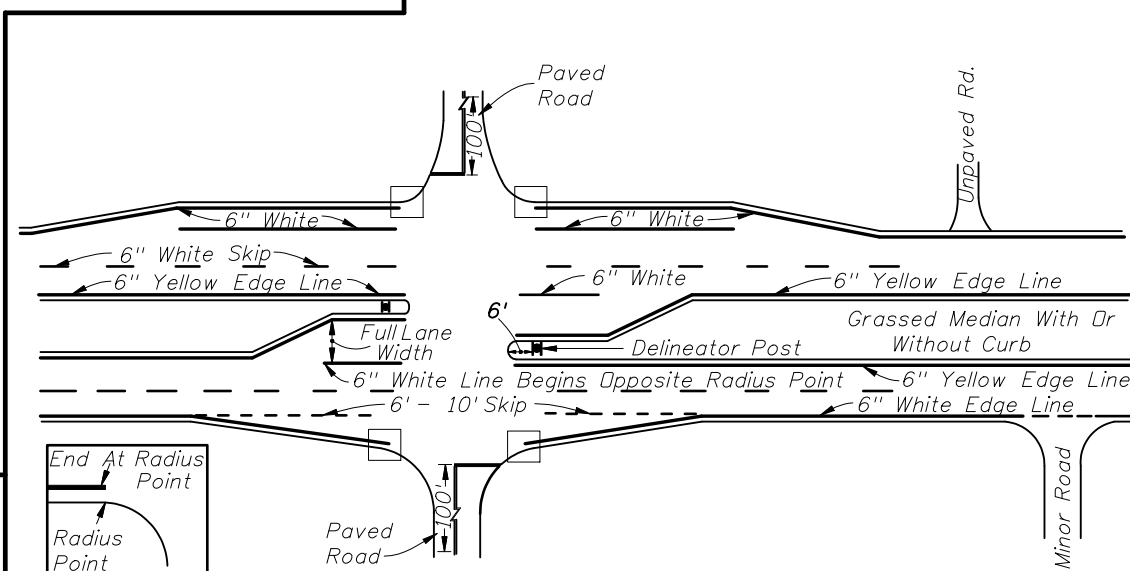
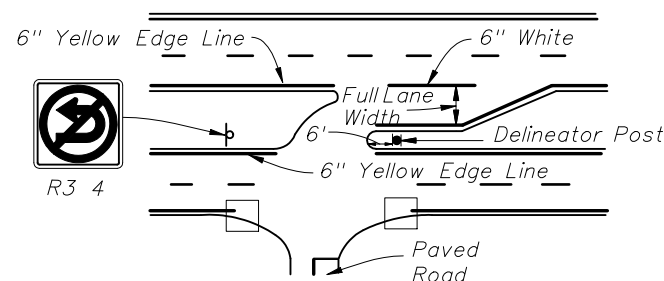


TYPES OF PERMANENT LONGITUDINAL LINES

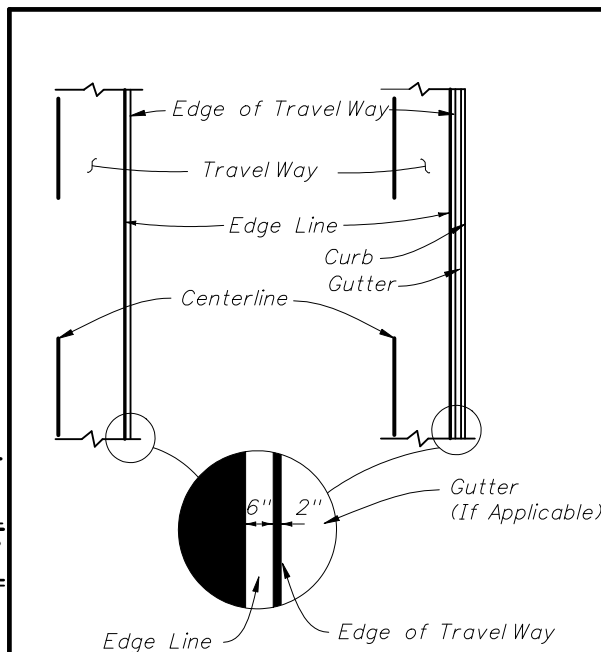


PAVEMENT MARKINGS AND DELINEATORS FOR MEDIAN CROSS-OVER

NOTE: Markings applied to median noses shall be yellow in color.



PAVEMENT MARKINGS FOR INTERSECTIONS WITH MAJOR AND MINOR ROADS



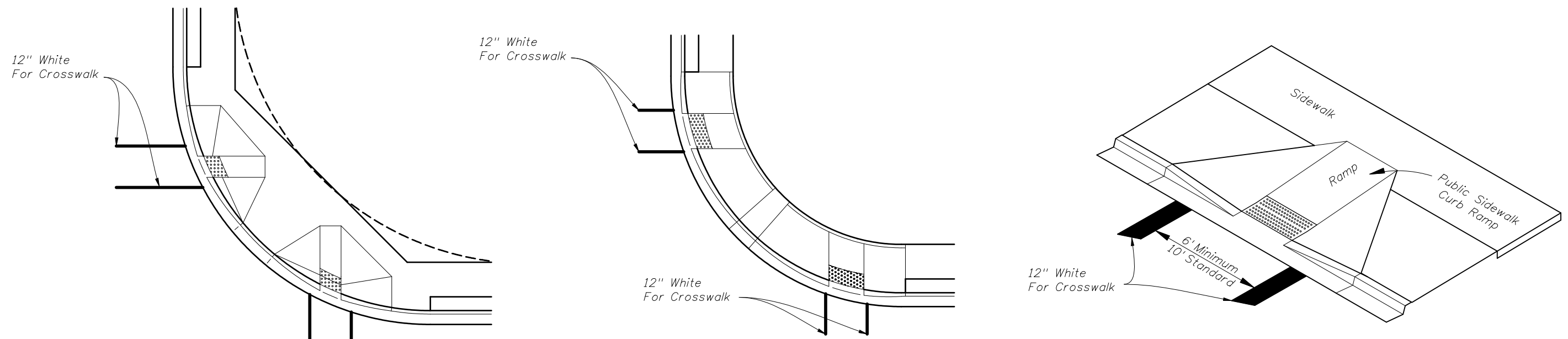
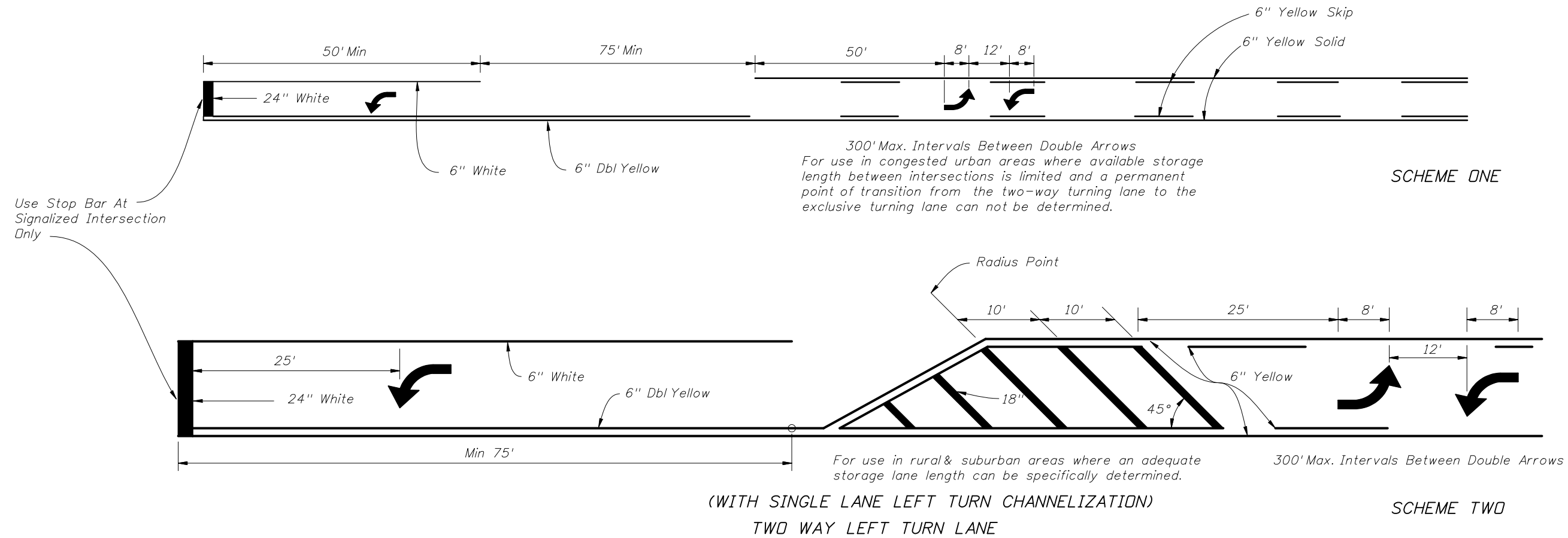
PLACEMENT OF EDGE LINES



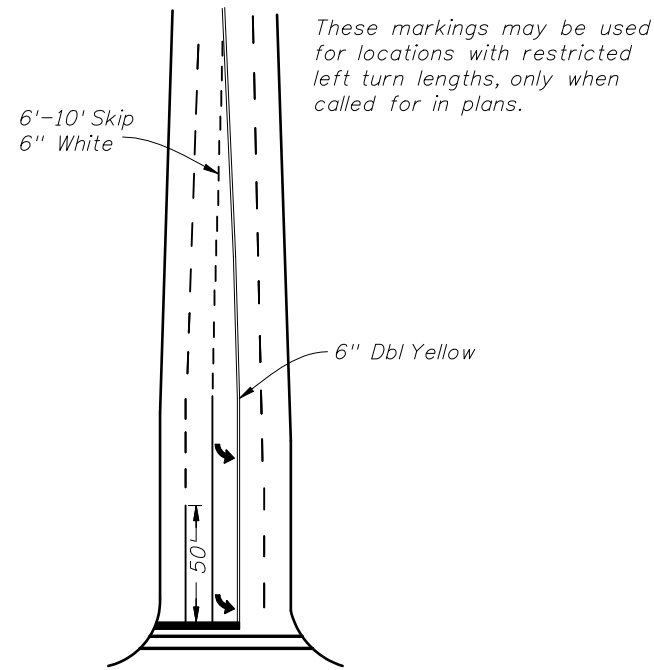
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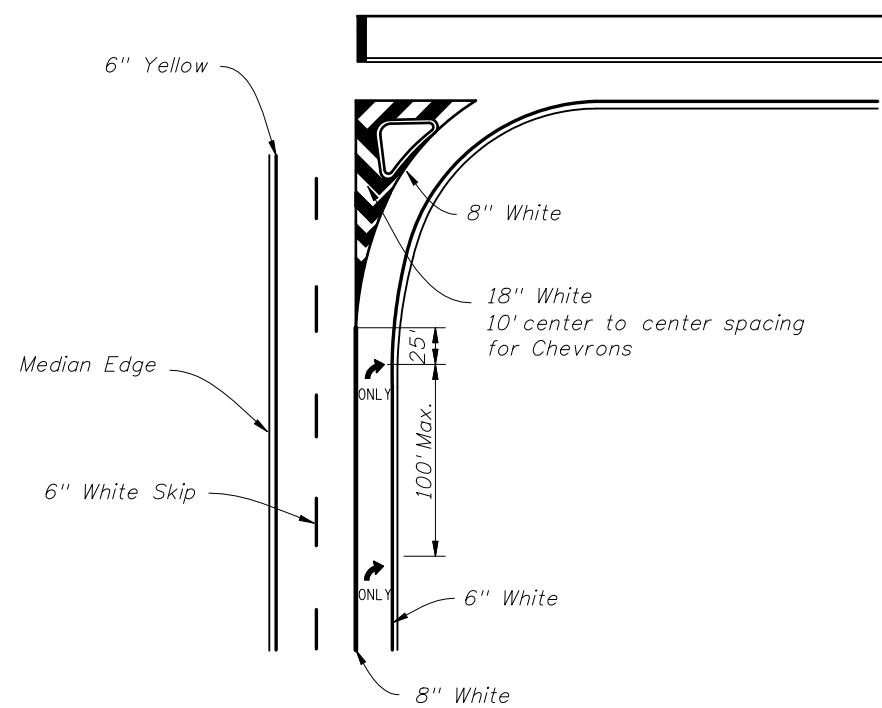


TYPICAL CROSSWALK MARKINGS FOR CURB RAMPS

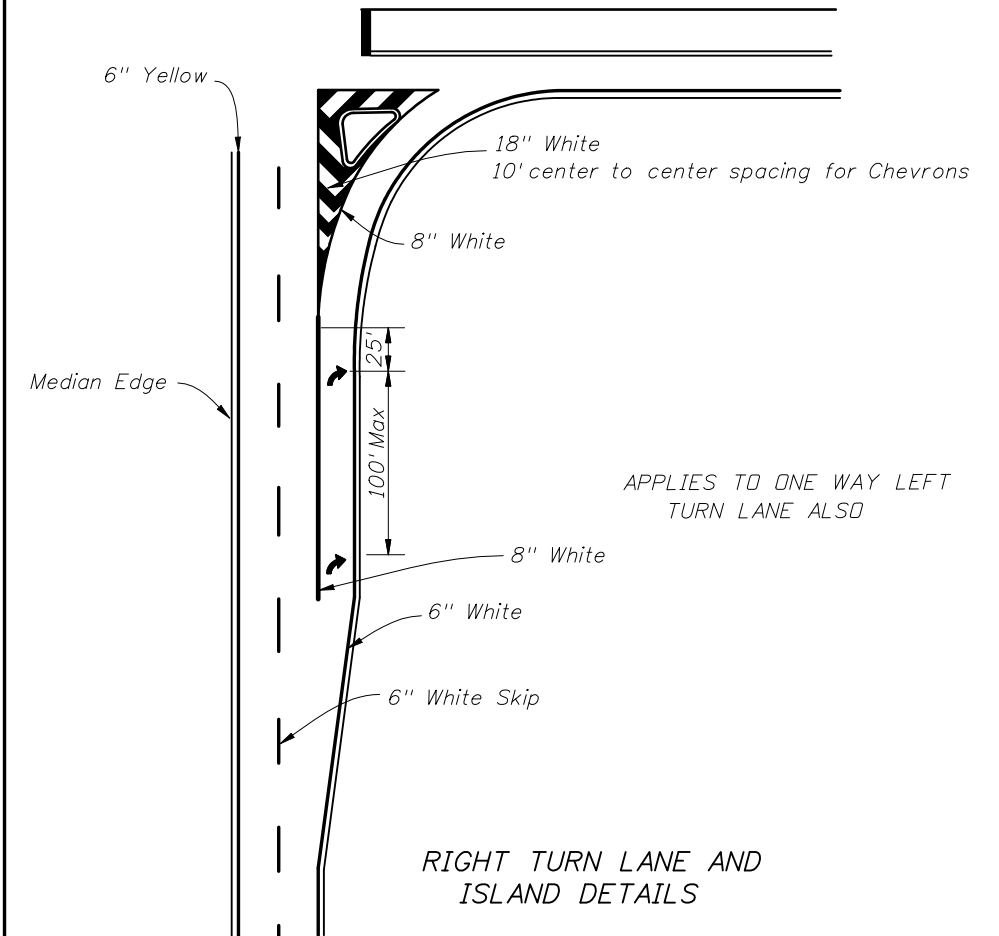


These markings may be used for locations with restricted left turn lengths, only when called for in plans.

RESTRICTED LEFT TURN MARKING



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



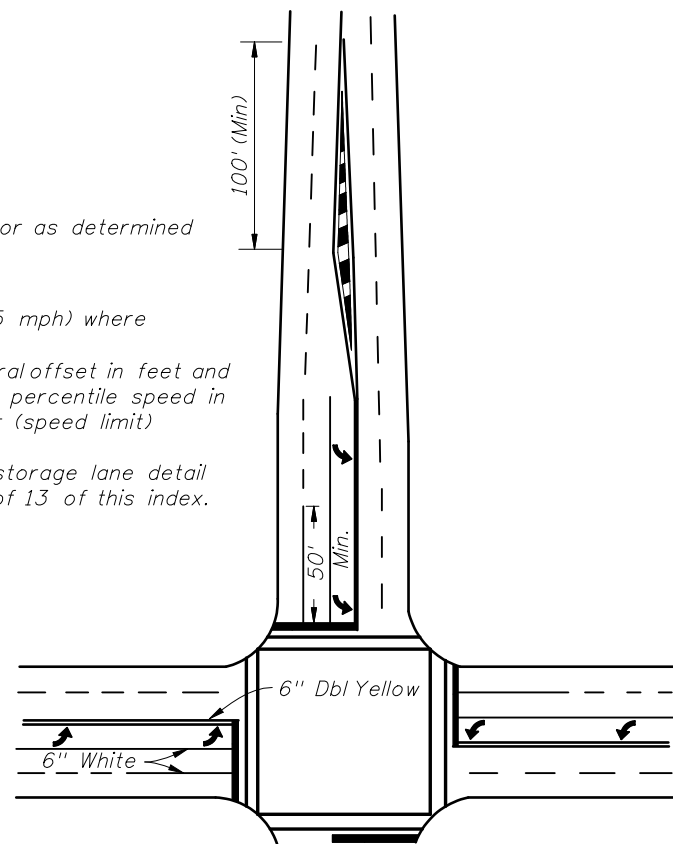
RIGHT TURN LANE AND ISLAND DETAILS

100' Minimum or as determined by $L=WS$

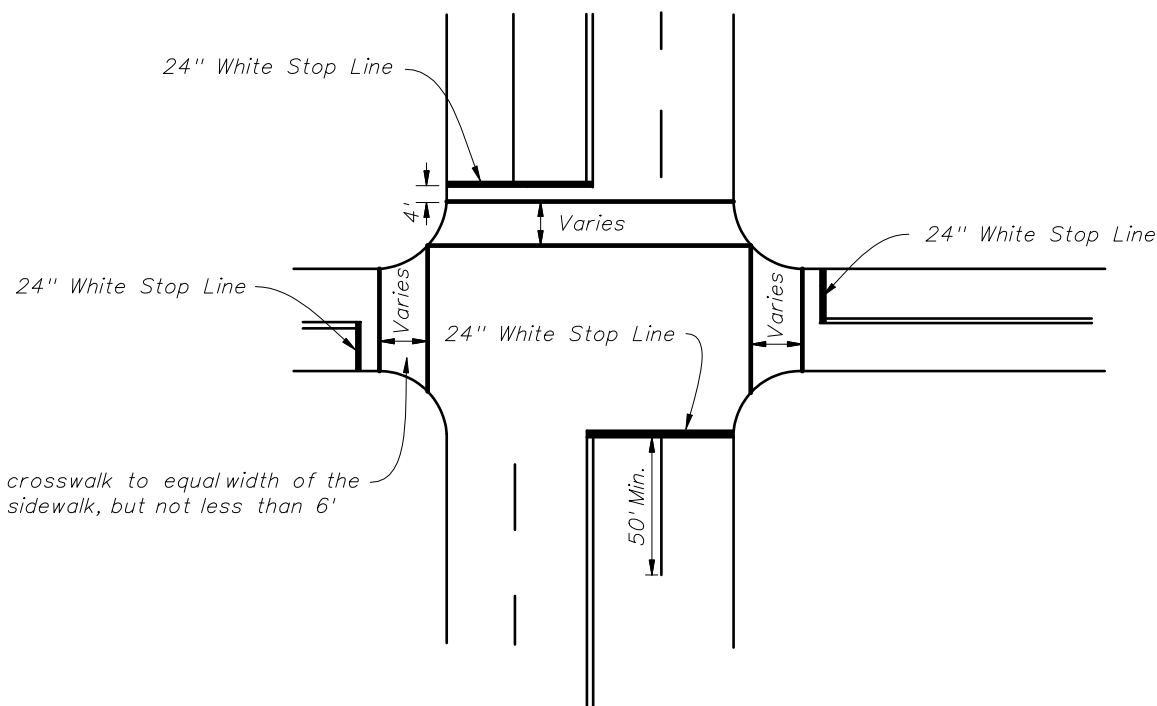
$$(L = \frac{WS^2}{60} < 45 \text{ mph}) \text{ where}$$

W is the lateral offset in feet and S is the 85th percentile speed in miles per hour (speed limit)

For left turn storage lane detail see sheet 2 of 13 of this index.



TYPICAL INTERSECTION 2 THRU LANES PLUS LEFT TURN LANE, WITH CROSSWALK



Width of crosswalk to equal width of the adjacent sidewalk, but not less than 6'

STOP BARS, CROSSWALKS AND DOUBLE CENTER LINE DETAILS

NOTES:

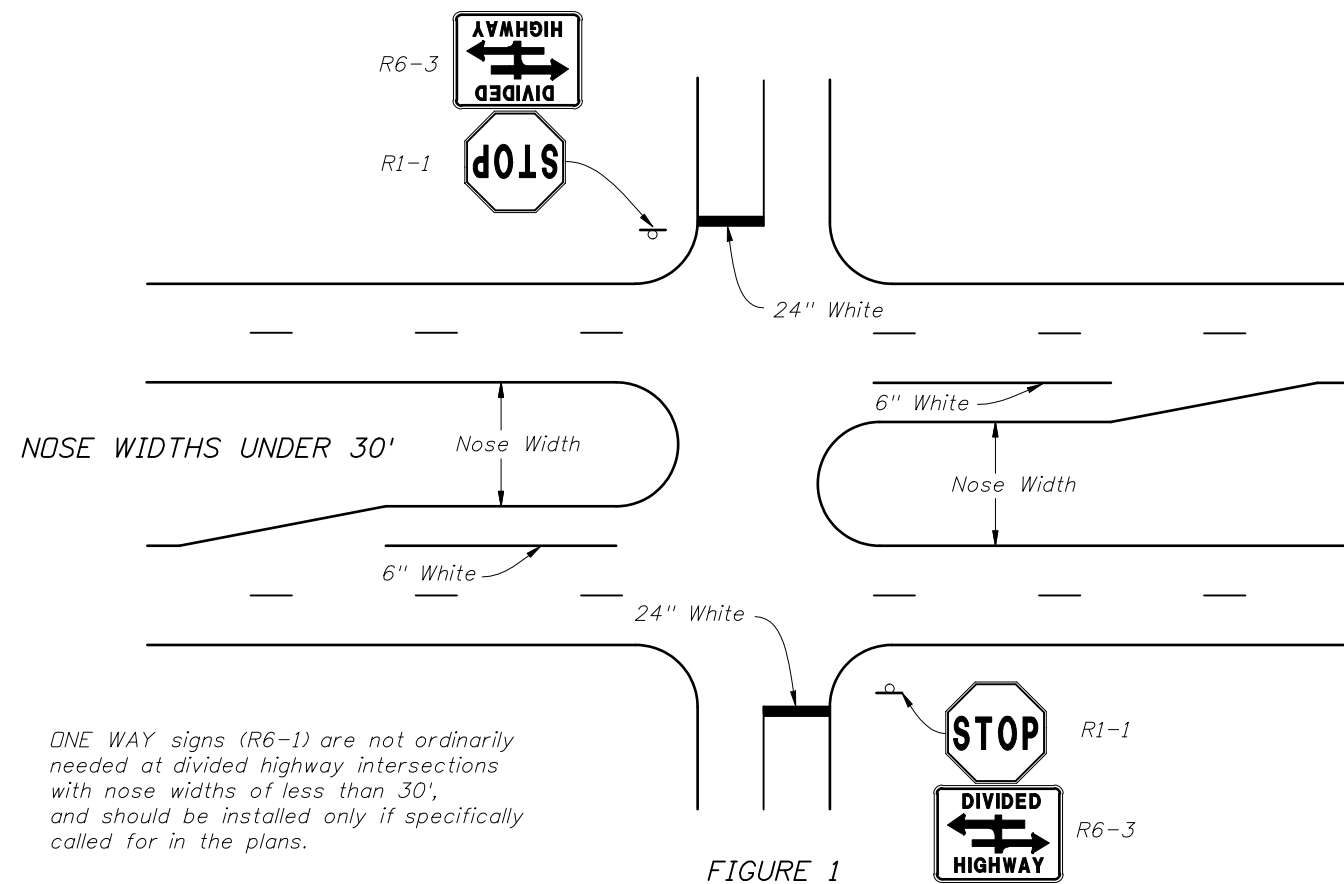
1. When public sidewalk curb ramps are present, refer Index 17346 and Index No. 304 for crosswalk widths.
2. Double yellow longitudinal center lines on all roadway approaches shall be extended back 100' for projects involving intersection improvements only.
3. When specified, "stop" message shall be placed 25' back of stop lines.



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ONE WAY signs (R6-1) are not ordinarily needed at divided highway intersections with nose widths of less than 30', and should be installed only if specifically called for in the plans.

FIGURE 1

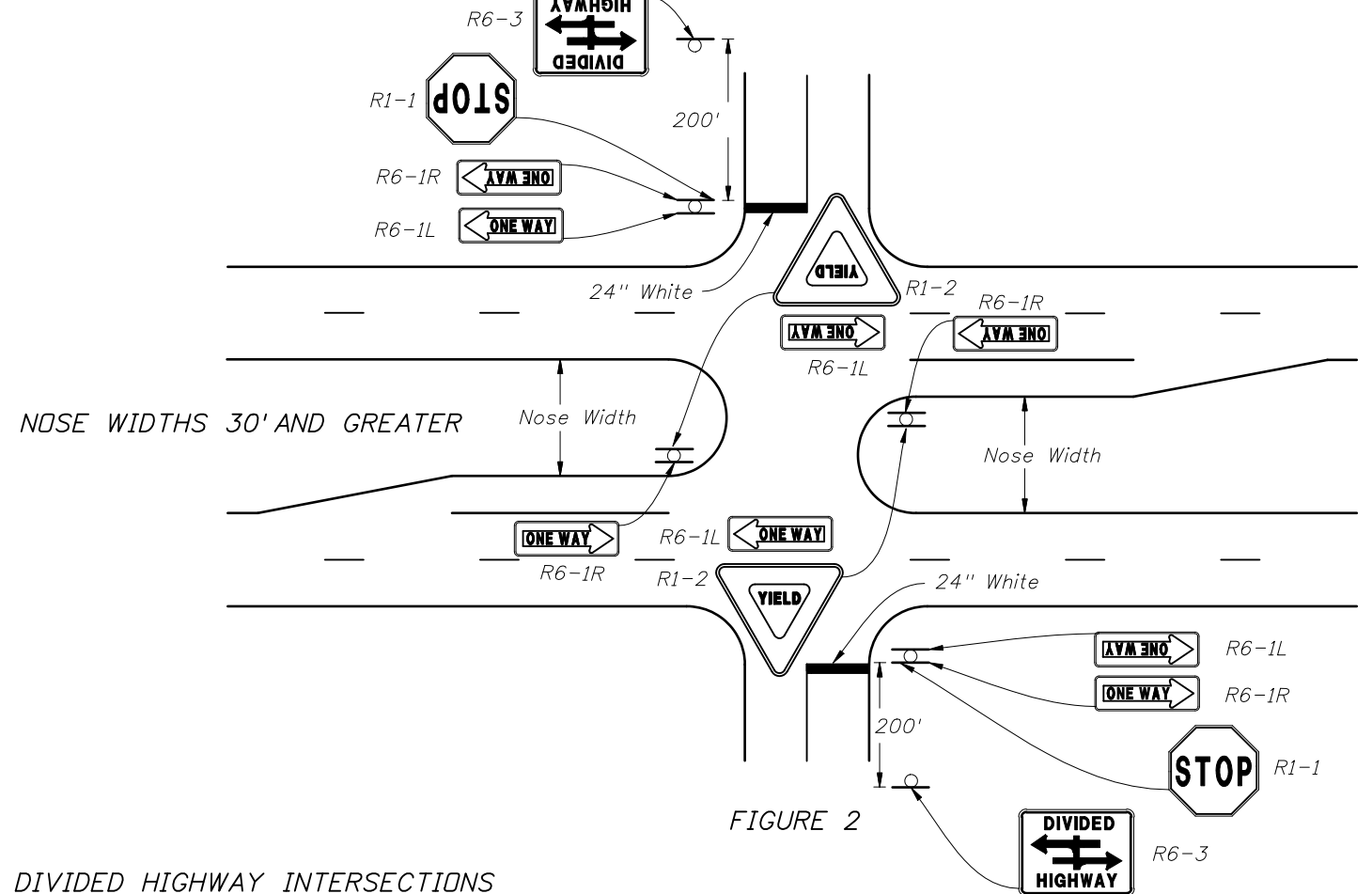
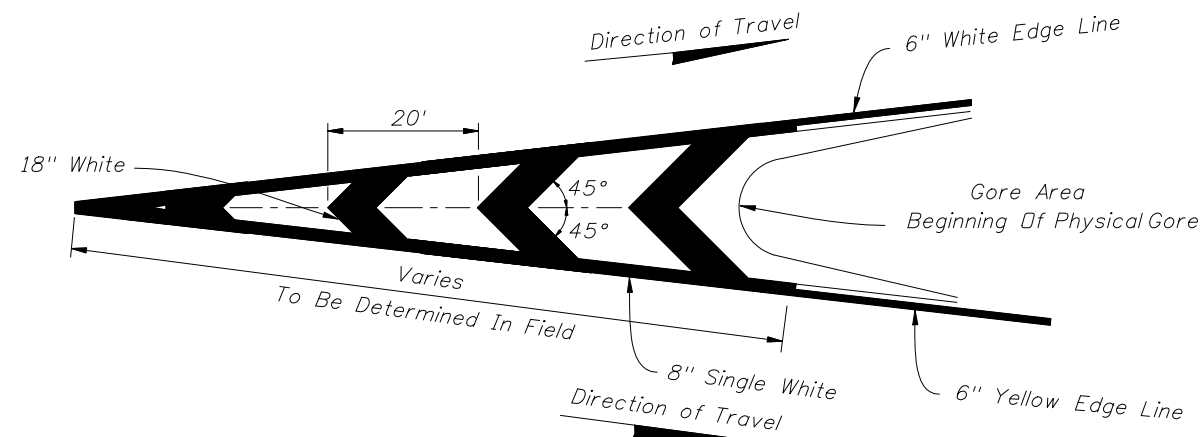
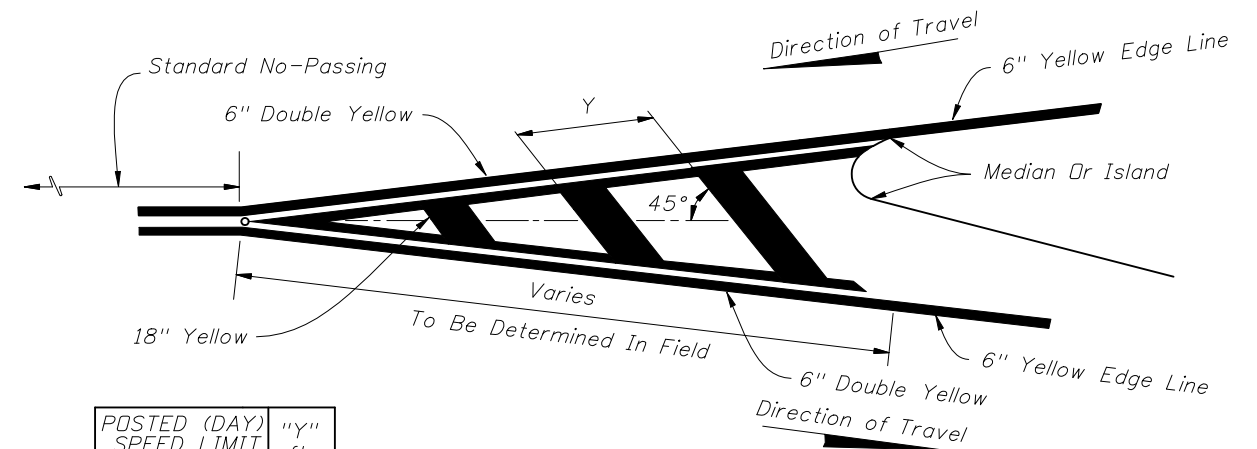


FIGURE 2

ONE-WAY SIGNS ON DIVIDED HIGHWAY INTERSECTIONS



PAVEMENT MARKINGS FOR TRAFFIC CHANNELIZATION AT GORE
(TRAFFIC FLOWS IN SAME DIRECTION)



POSTED (DAY) SPEED LIMIT MPH	"Y" ft.
30 OR LESS	10
35	20
40	20
45	30
50 OR MORE	40

PAVEMENT MARKING FOR TRAFFIC SEPARATION
(TRAFFIC FLOWS IN OPPOSING DIRECTIONS)

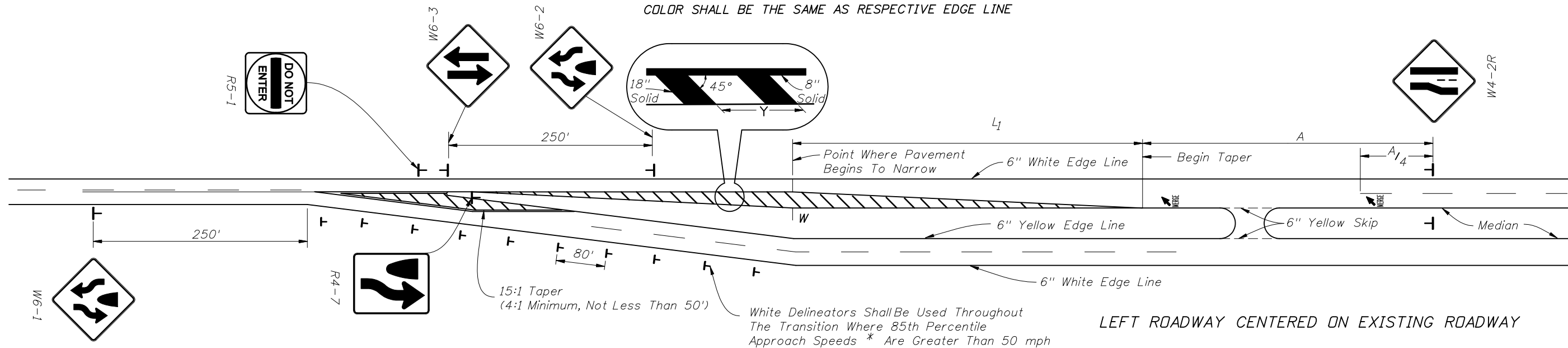


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TYPICAL TRANSITION MARKING
 COLOR SHALL BE THE SAME AS RESPECTIVE EDGE LINE

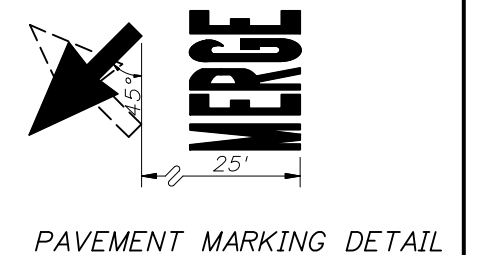
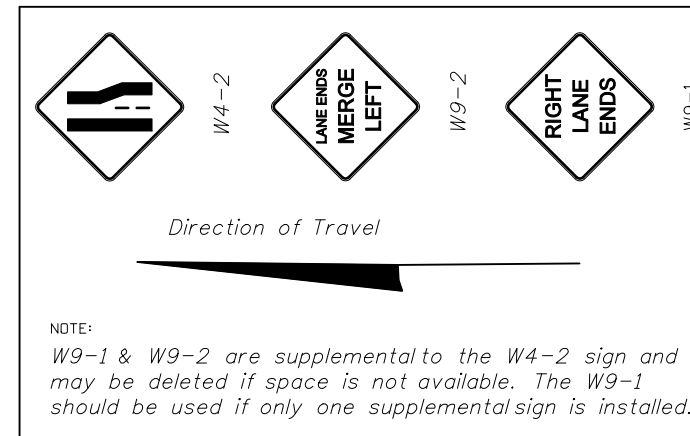


LEFT ROADWAY CENTERED ON EXISTING ROADWAY

** W * S	TRANSITION DISTANCE L ₁ (FEET)						
MPH	8	9	10	11	12	13	14
30	120	135	150	165	180	195	210
35	165	185	205	225	245	265	285
40	215	240	270	295	320	350	375
45	360	405	450	495	540	585	630
50	400	450	500	550	600	650	700
55	440	495	550	605	660	715	770
60	480	540	600	660	720	780	840
65	520	585	650	715	780	845	910

SPEED MPH	"A" (FT.)
55	950
50	850
45	750
40	650
30	450

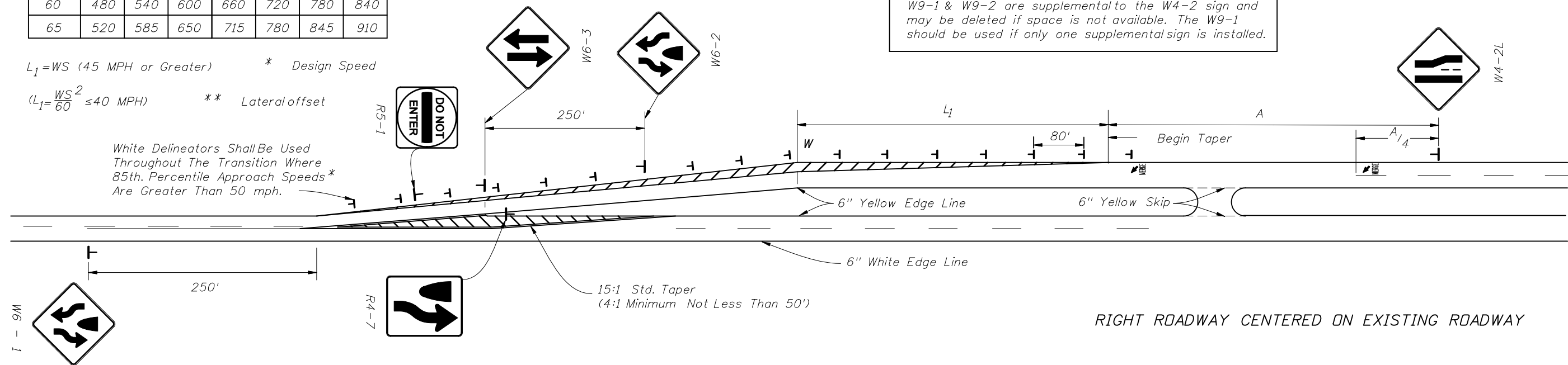
POSTED (DAY) SPEED LIMIT MPH	"Y" (FT.)
30 OR LESS	10
35	20
40	20
45	30
50 OR MORE	40



$L_1 = WS$ (45 MPH or Greater) * Design Speed

$(L_1 = \frac{WS^2}{60} \leq 40 \text{ MPH})$ ** Lateral offset

White Delineators Shall Be Used Throughout The Transition Where 85th. Percentile Approach Speeds* Are Greater Than 50 mph.



RIGHT ROADWAY CENTERED ON EXISTING ROADWAY

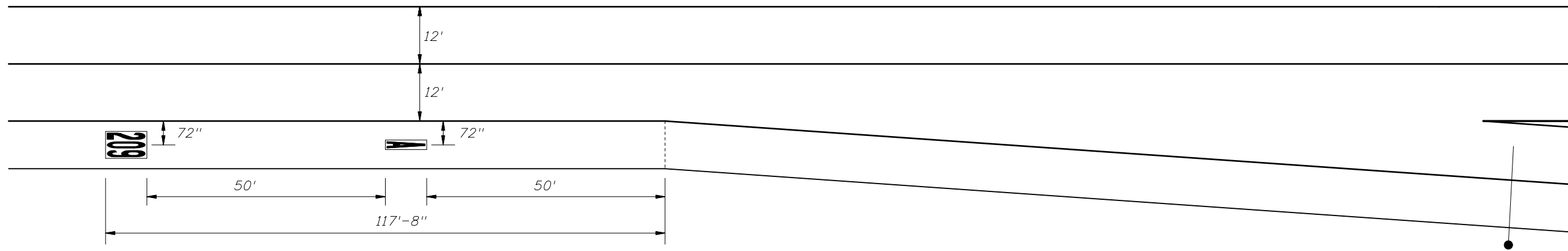
SCHEMES FOR TRANSITION - 2 LANE / 4 LANE ROADWAY



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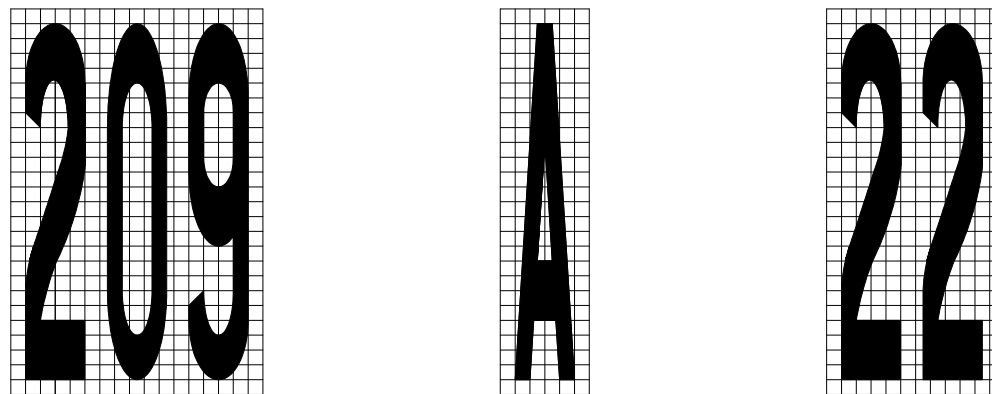
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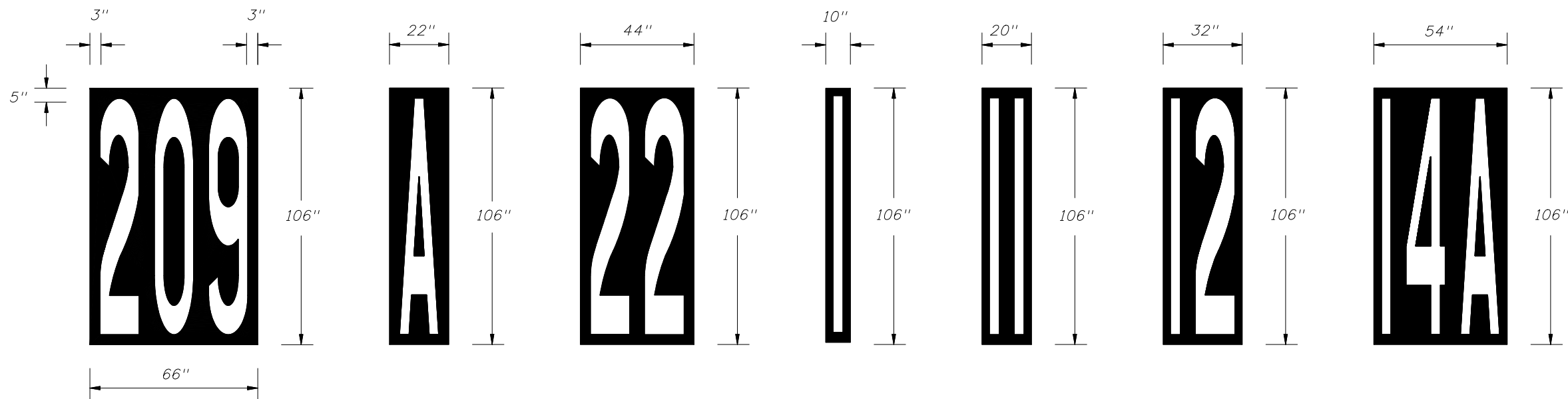
LAYOUT FOR 1, 2 AND 3 DIGIT NUMBERS AND LETTERS

NOTES:

1. Messages shall meet requirements of Specification Section 971-7 and Section 711.
2. The thickness of the preformed message shall be 125 mils.
3. The message shall consist of white letters and numbers with black contrasting material. The black material shall meet the mat dimensions shown and have a minimum skid resistance value of 55 BPN.
4. The "EXIT NUMBER" position remains the same (117'-8") from the beginning of taper regardless of the number of lines of information.



MESSAGE SIZE AND SPACING



MAT DIMENSIONS

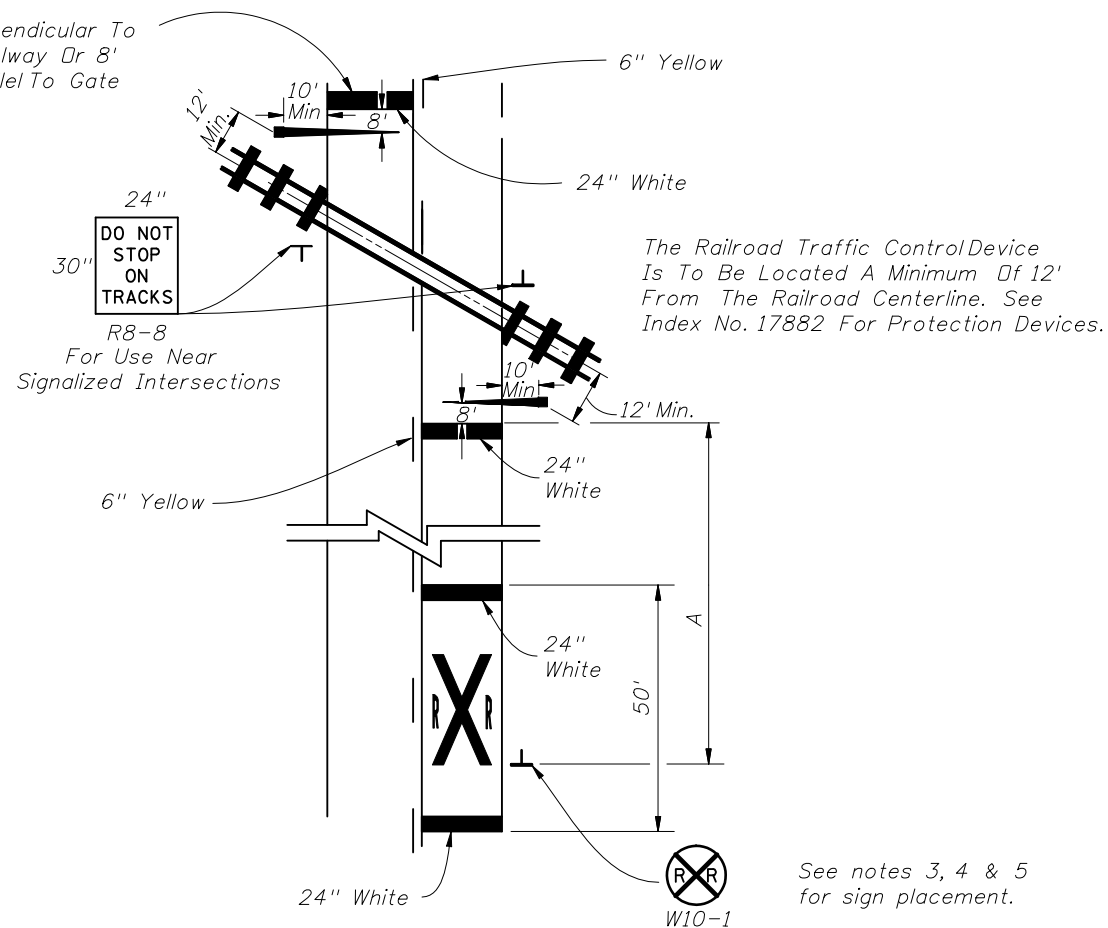


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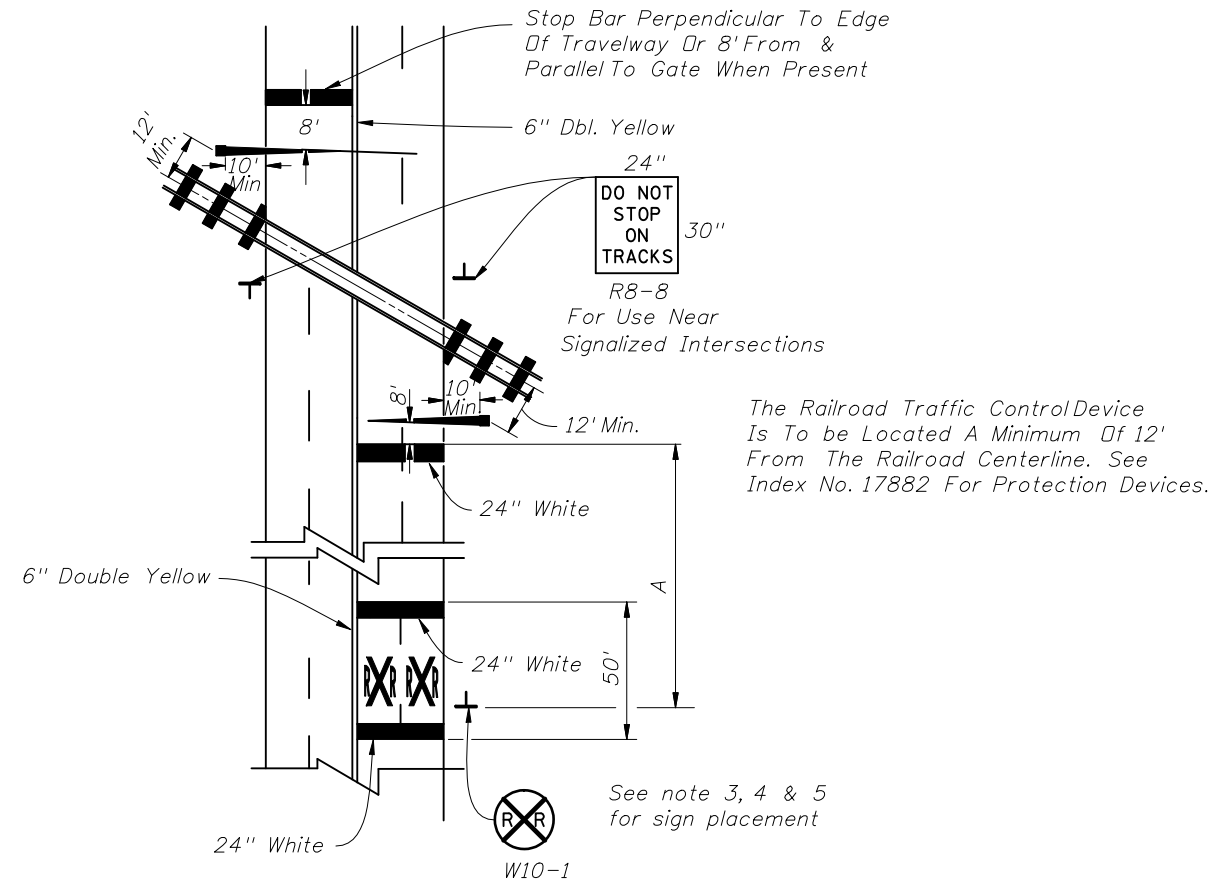
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Stop Bar Perpendicular To Edge Of Travelway Or 8' From & Parallel To Gate When Present.

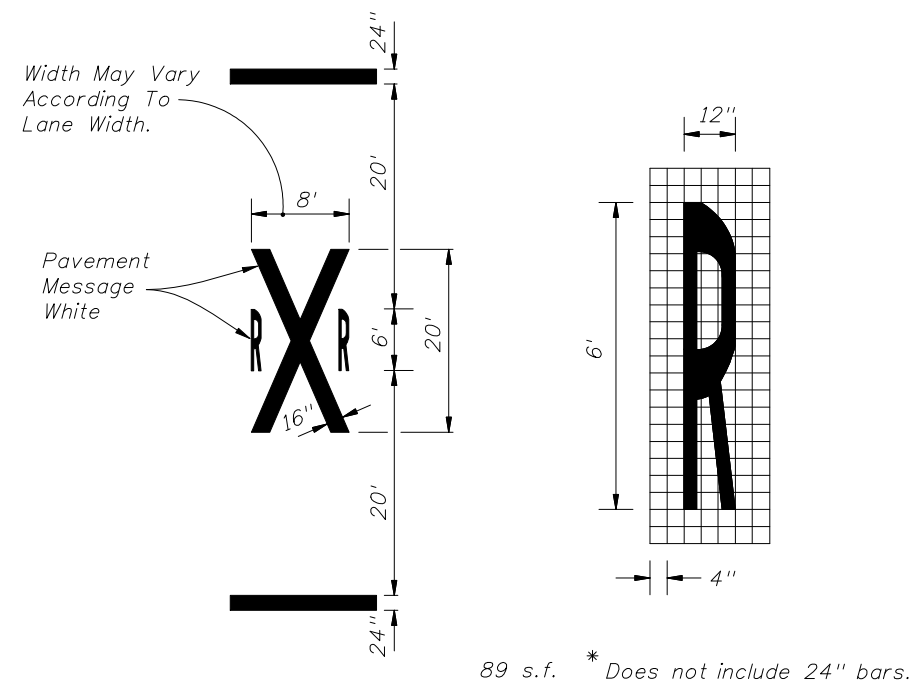


RAILROAD CROSSING AT 2-LANE ROADWAY

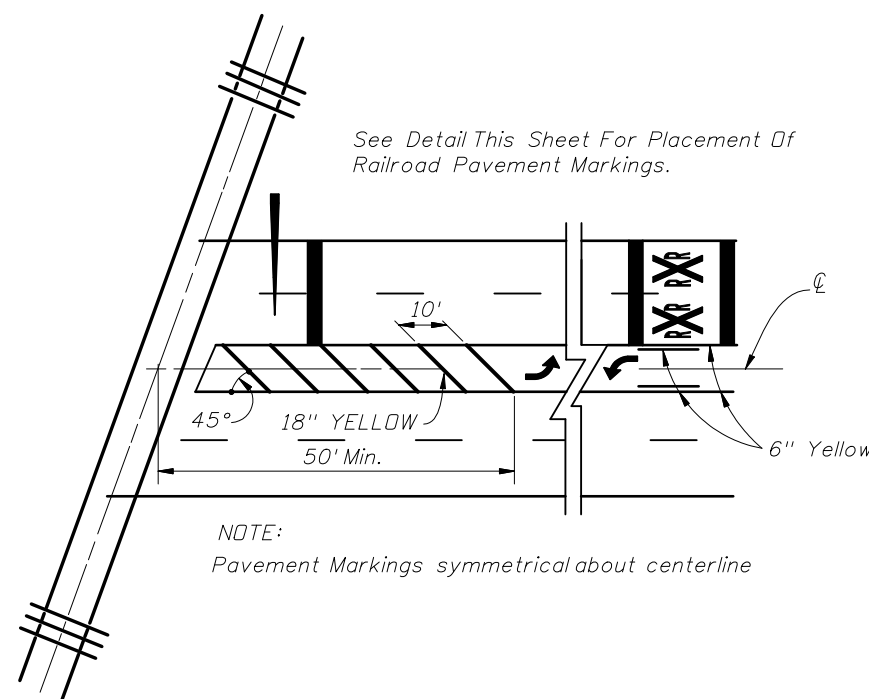
Stop Bar Perpendicular To Edge Of Travelway Or 8' From & Parallel To Gate When Present



RAILROAD CROSSING AT 4-LANE ROADWAY



TYPICAL PAVEMENT MARKINGS FOR R/R CROSSING



PAVEMENT MARKINGS FOR TERMINATION OF TWO WAY LEFT TURN AT R/R CROSSINGS

NOTES:

1. When computing pavement messages, quantities do not include transverse lines.
2. When dynamic devices are not present or are to be installed, the crossbuck shall be located at the future location of the RR gate or signal and gate in accordance with Index No. 17882.
3. Placement of sign W10-1 in a residential or business district, where low speeds are prevalent, the W10-1 sign may be placed a minimum distance of 100' from the crossing. Where street intersections occur between the RR pavement message and the tracks an additional W10-1 sign & additional Pavement message should be used.
4. Recommended location for FTP-61-06 or FTP-62-06 sign, 100' urban & 300' rural in advance of the crossings.
5. A portion of the pavement marking symbol should be directly opposite the W10-1 sign.

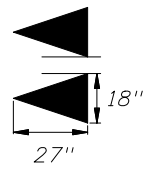
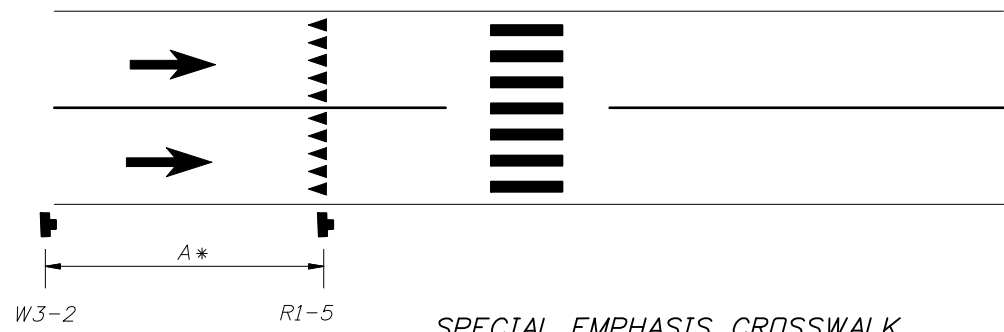
SPEED MPH	" A " IN FT.
60	400
55	325
50	250
45	175
40	125
35	100
URBAN	85 MIN.



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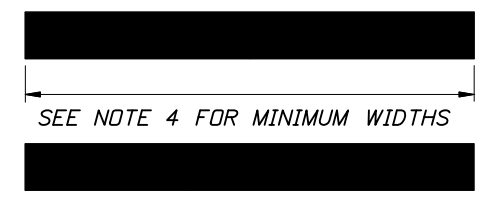
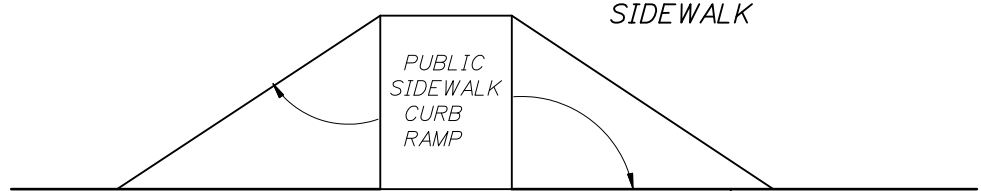
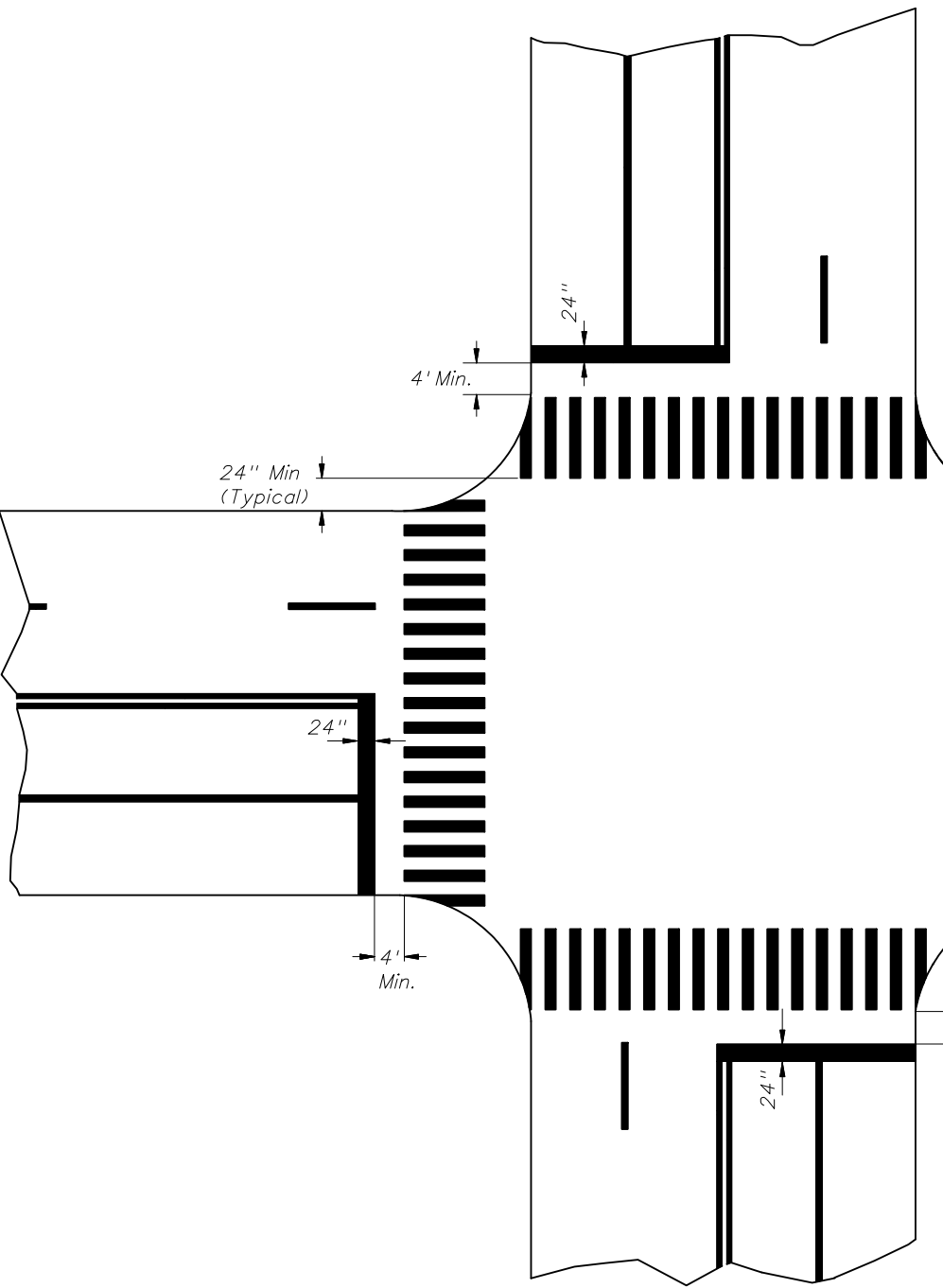


Yield Lines 5-18" X 27" White triangles facing traffic equally spaced within travel lane with 1 additional triangle using same spacing when a bike lane is present.

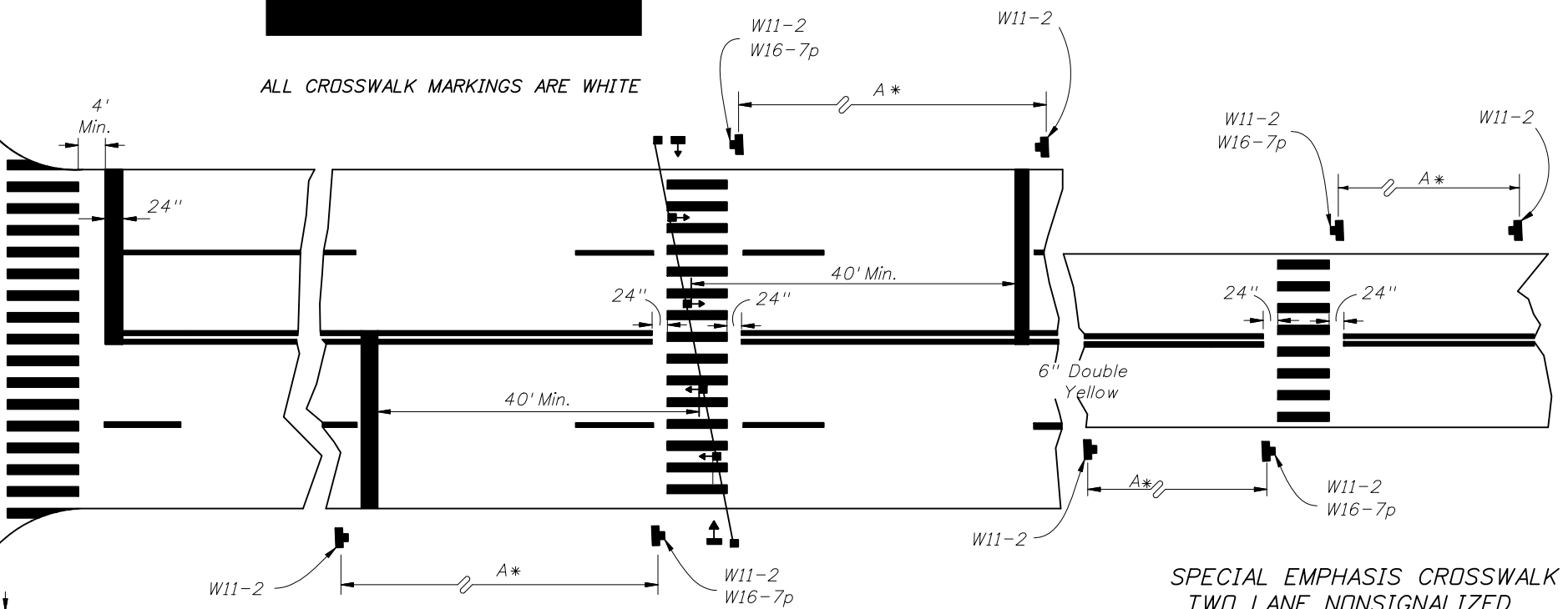
GENERAL NOTES

1. For traffic and pedestrian signal installation, refer to Index No. 17721 through 17890.
2. For public sidewalk curb ramps, refer to Index No. 304.
3. For pavement marking and sign installation, refer to Indexes 11200 through 17356.
4. Crosswalk minimum widths: Intersection Crosswalk 6'. Midblock Crosswalk 10'.

SPECIAL EMPHASIS CROSSWALK YIELD MARKINGS



ALL CROSSWALK MARKINGS ARE WHITE



APPROACH SPEED MPH	A * SUGGESTED DISTANCE (Ft.)
25 Or Less	200
26 To 35	250
36 To 45	300
46 To 55	325

SPECIAL EMPHASIS CROSSWALK MIDBLOCK-SIGNALIZED

SPECIAL EMPHASIS CROSSWALK TWO LANE NONSIGNALIZED

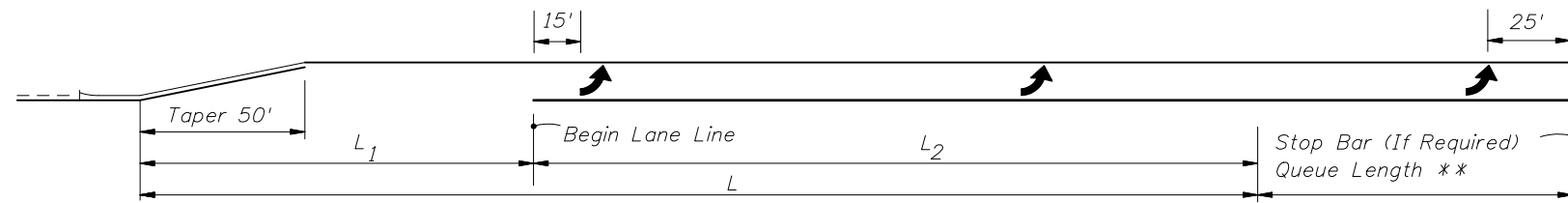
SPECIAL EMPHASIS CROSSWALK SIGNALIZED OR STOP SIGN CONTROLLED INTERSECTION



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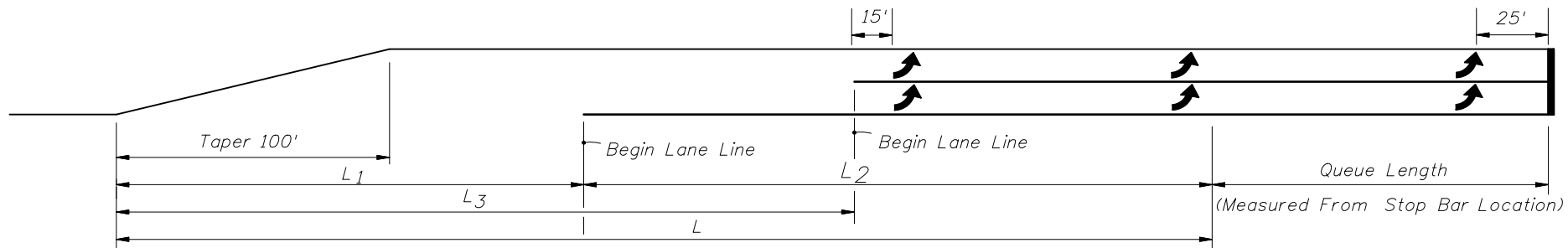
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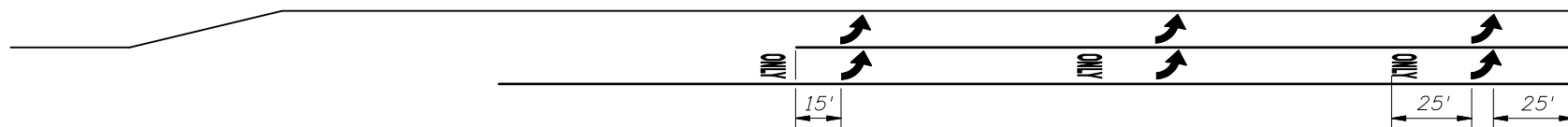


SINGLE LEFT TURNS

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

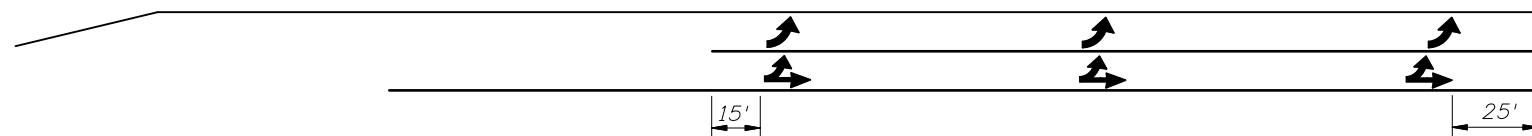


DOUBLE LEFT TURNS



The ONLY pavement message is required for turn lanes, where the thru lane becomes turn lane.

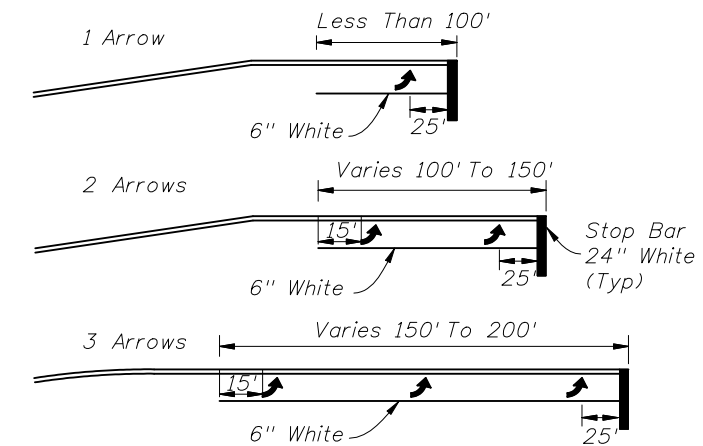
Through Lane Becomes Exclusive Left Turn



Through Lane Becomes Optional Left Turn

DOUBLE LEFT TURN MARKINGS

TURN LANES • CURBED AND UNCURBED MEDIANS							
Design Speed (mph)	Clearance Distance L ₁	URBAN CONDITIONS			RURAL CONDITIONS		
		Brake To Stop Distance L ₂	Total Decel. Distance L	Clearance Distance L ₃	Brake To Stop Distance L ₂	Total Decel. Distance L	Clearance Distance L ₃
35	70'	75'	145'	110'	---	---	---
40	80'	75'	155'	120'	---	---	---
45	85'	100'	185'	135'	---	---	---
50	105'	135'	240'	160'	185'	290'	160'
55	125'	---	---	---	225'	350'	195'
60	145'	---	---	---	260'	405'	230'
65	170'	---	---	---	290'	460'	270'



Arrow should be evenly spaced between first and last arrow. Turn lanes longer than 200' add one arrow for each 100' additional length.

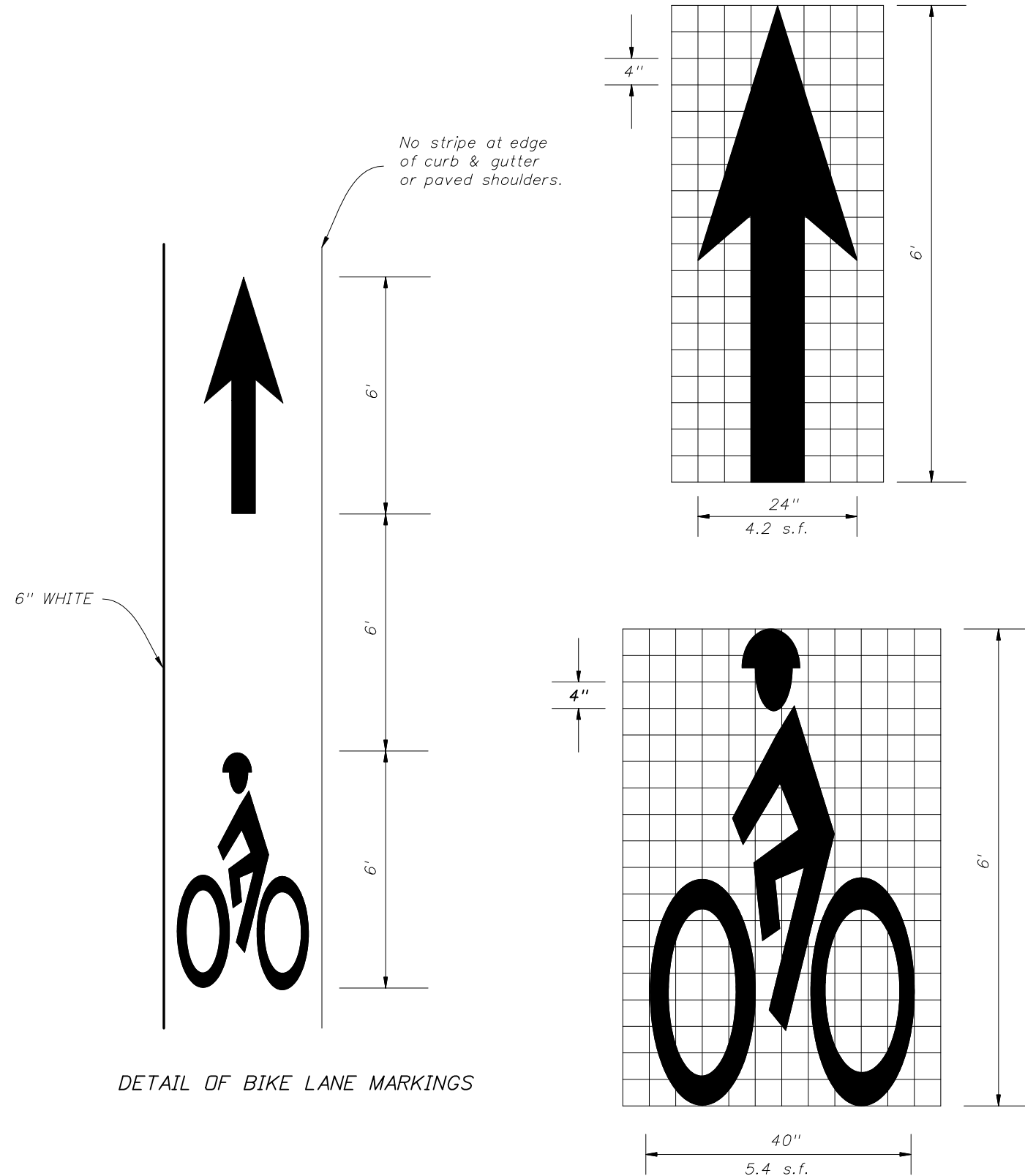
ARROW SPACING

NOTES:

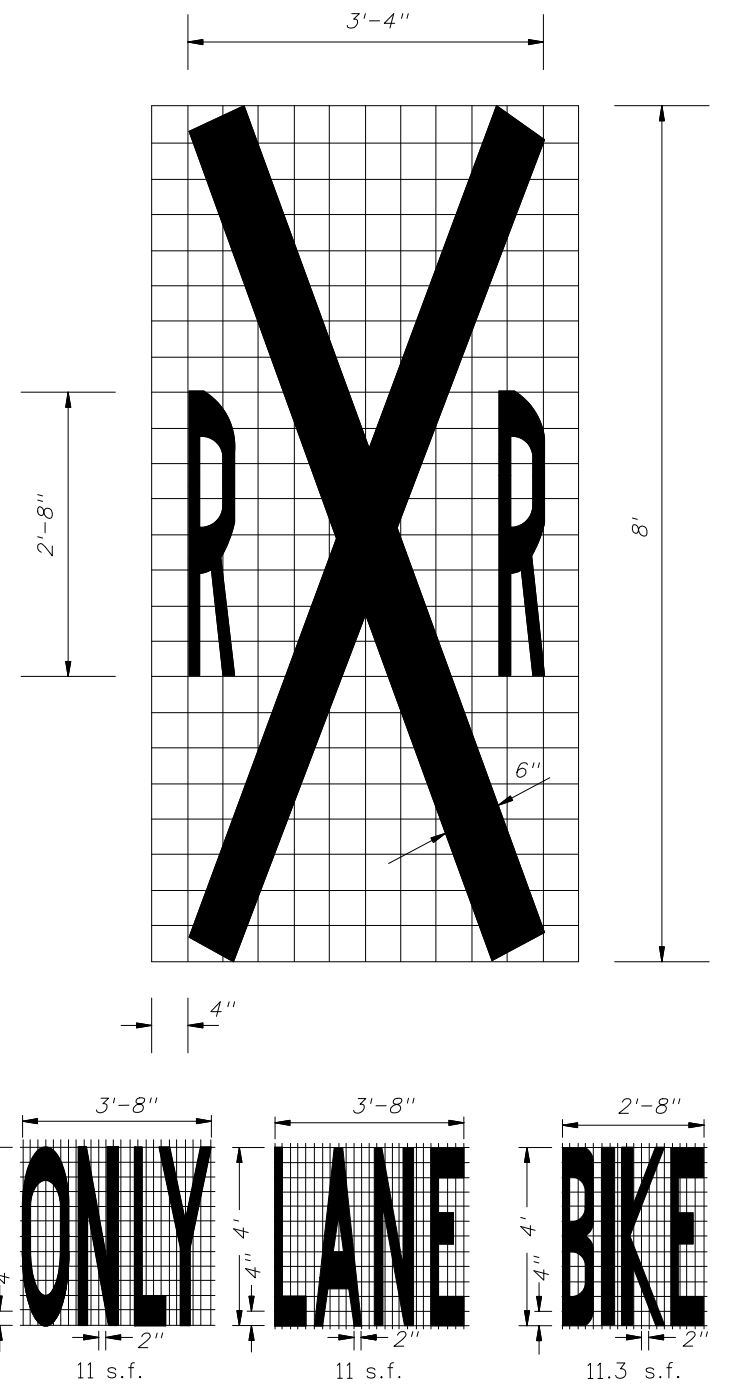
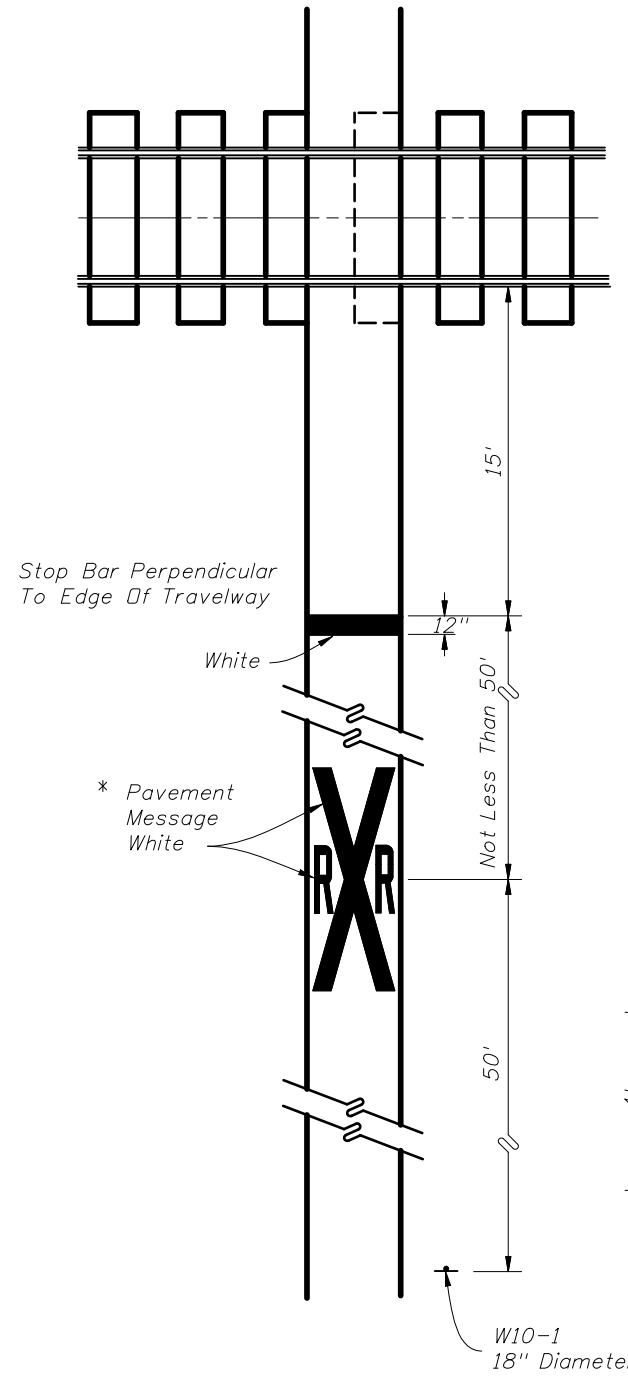
1. The "Begin Lane Line" locations are based on the standard lengths shown in Design Standard 301. These locations must be adjusted on a case by case basis for turn lanes not meeting the standard lengths.
2. Yellow left turn edge marking may be used adjacent to raised curb or grass medians if lane use is not readily apparent to drivers approaching a left turn storage lane.
3. Refer to Design Standard Index 301 for Roadway Details.
4. This Index also applies to right turn lanes.



1. Recommended spacing of symbols: Immediately after intersections and major driveways and at a maximum spacing of 600 feet for urban sections and 1320 feet for rural sections.
2. Raised pavement markings and raised barriers can cause steering difficulties and should not be used to delineate bicycle lanes. All pavement markings and pavement messages shall be white.



DETAIL OF BIKE LANE MARKINGS



PAVEMENT MESSAGE DETAILS

* NOTE

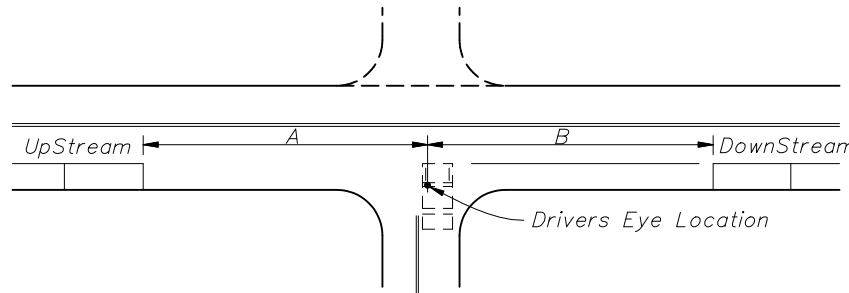
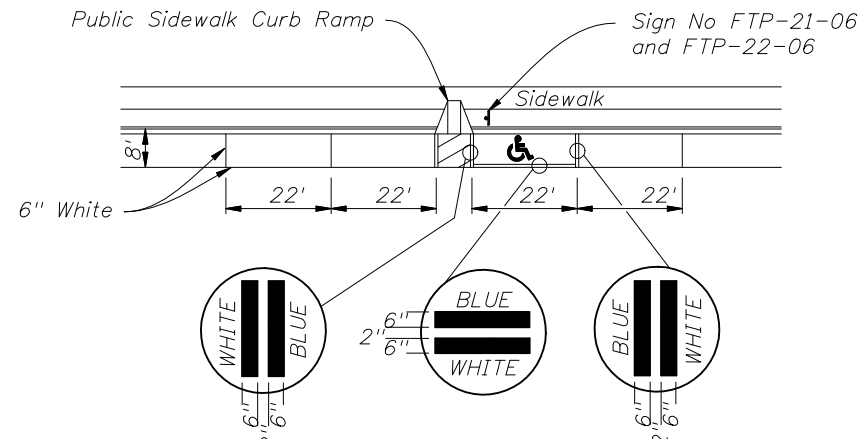
3. When used on a bike lane (adjacent to vehicle lane) markings shall be placed adjacent to markings for vehicles & W10-1 sign shall be sized and placed for vehicles.



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SPECIAL MARKING AREAS (BICYCLE)

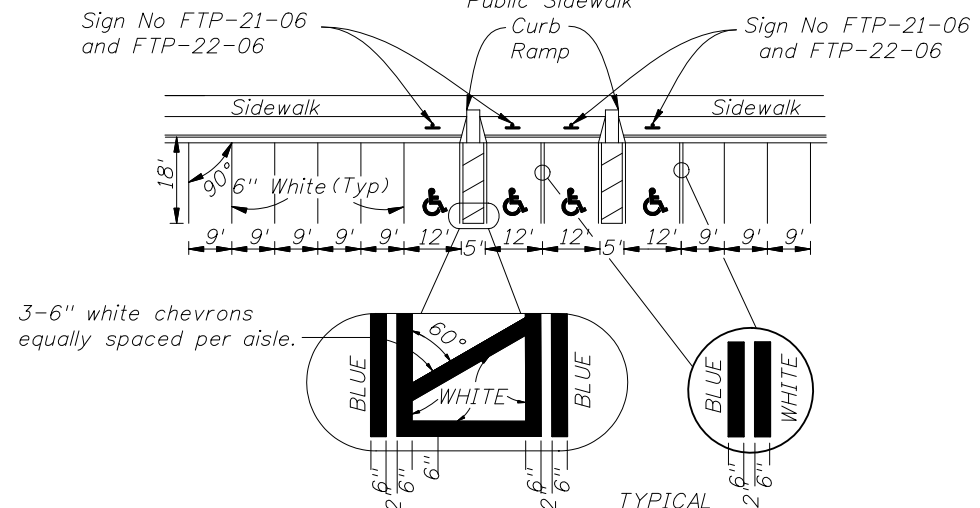
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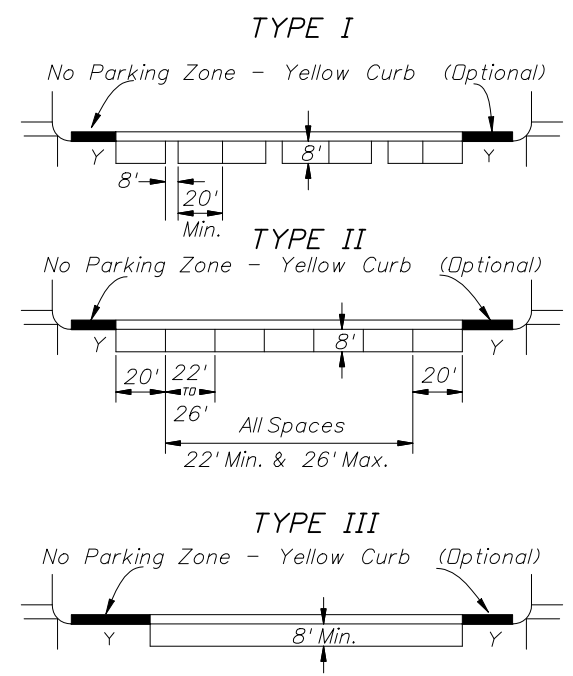
SPEED MPH	UP STREAM (A)	DOWN STREAM (B)	
		2 LANE	4 LANE
0-30	85'	60'	45'
35	100'	70'	50'

GENERAL NOTES (Signalized & Nonsignalized)

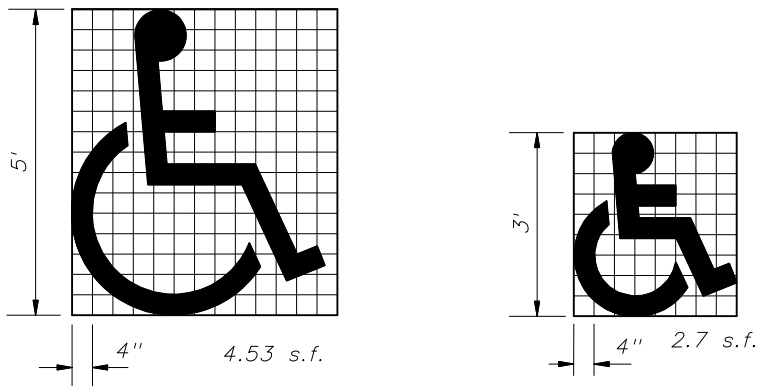
1. For entrances to a one-way street, the downstream restriction may be reduced to 20'.
2. Parking shall not be allowed within 20' of a crosswalk.
3. All parking lane markings shall be 6" white.
4. Parking lane lines shall be broken at driveways.
5. Refer to Chapter 316, Fla. Statutes, for laws governing parking spaces.
6. Where curb and gutter is used, the gutter pan width may be included as part of the minimum width of parking lane, but desirably the lane width should be in addition to that of the gutter pan.



- NOTES**
1. Distances measured longitudinally along the street from driver location of entering vehicle to end of parking restriction.
 2. Distances applicable to intersecting street, major driveways and other driveways to the extent practical.
 3. For nonsignalized intersections, the values above shall be compared with the values for signalized intersections and the maximum restrictions implemented. These restrictions apply to both accessible and nonaccessible parking.

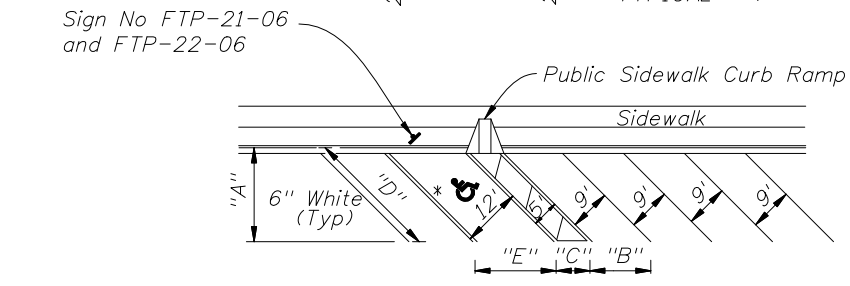


MINIMUM PARKING RESTRICTION FOR NONSIGNALIZED INTERSECTIONS



SPEED LIMIT MPH	SIGNALIZED INTERSECTIONS	DISTANCE FROM CURB RADIUS (Y)
0-30	30'	
35	50'	

PARKING RESTRICTION (FT.) FOR SIGNALIZED INTERSECTION



* FOR ACCESSIBLE MARKINGS - SEE ABOVE

Δ°	"DIMENSIONS"				
	"A"	"B"	"C"	"D"	"E"
45°	19'-1"	12'-9"	7'-0"	27'-0"	17'-0"
60°	20'-1"	10'-5"	5'-9"	23'-2"	13'-10"

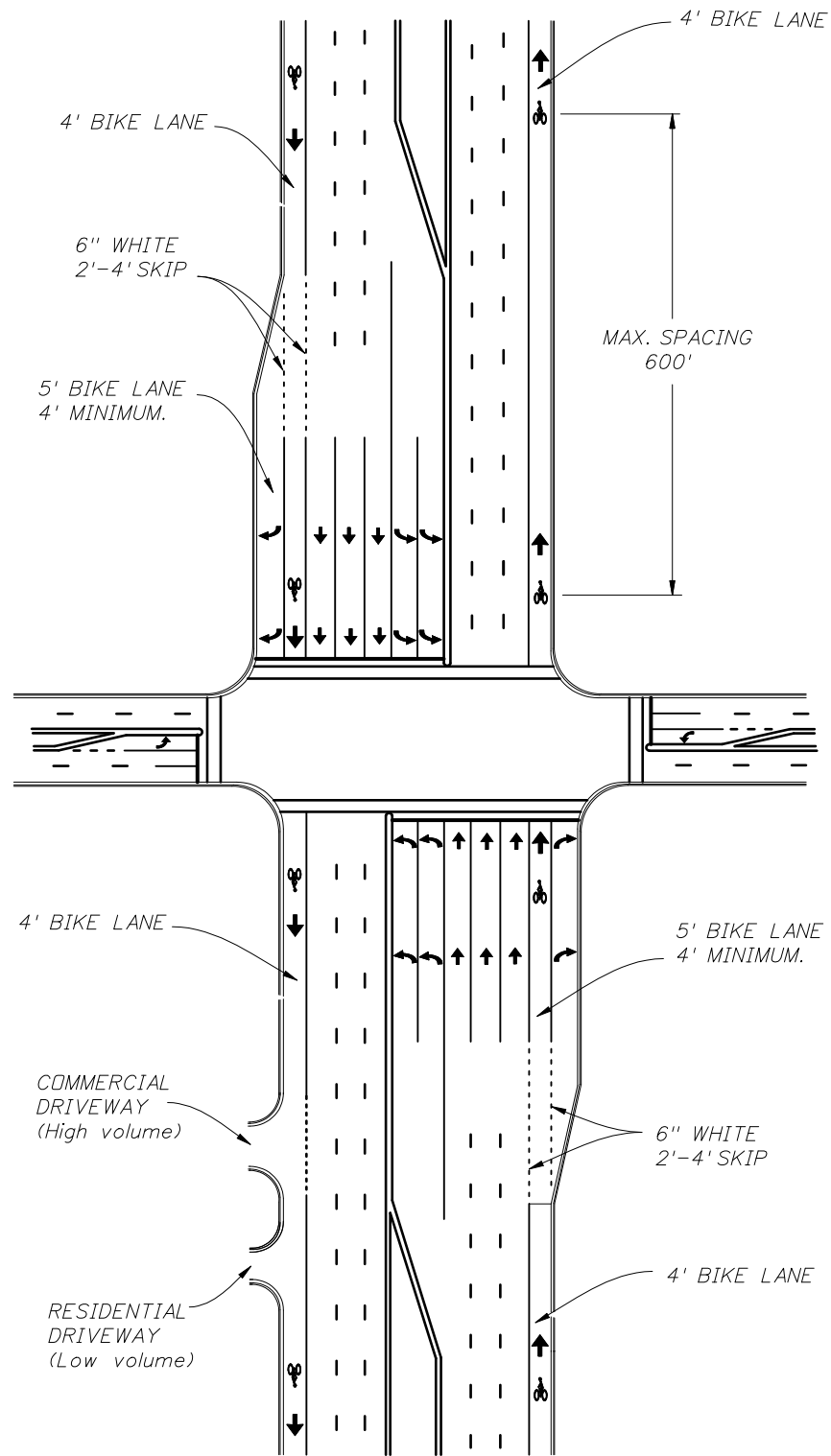
- NOTES:**
1. Dimensions are to the centerline of markings.
 2. An Access Aisle is required for each accessible space when angle parking is used.
 3. Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
 4. Blue pavement markings shall be tinted to match shade 15180 of Federal Standards 595a.
 5. The FTP-22-06 panel shall be mounted below the FTP-21-06 sign.

- NOTES:**
1. Parking restrictions measured from curb radius point.
 2. Restrictions for accessible parking are the same as those applied to nonsignalized intersections.

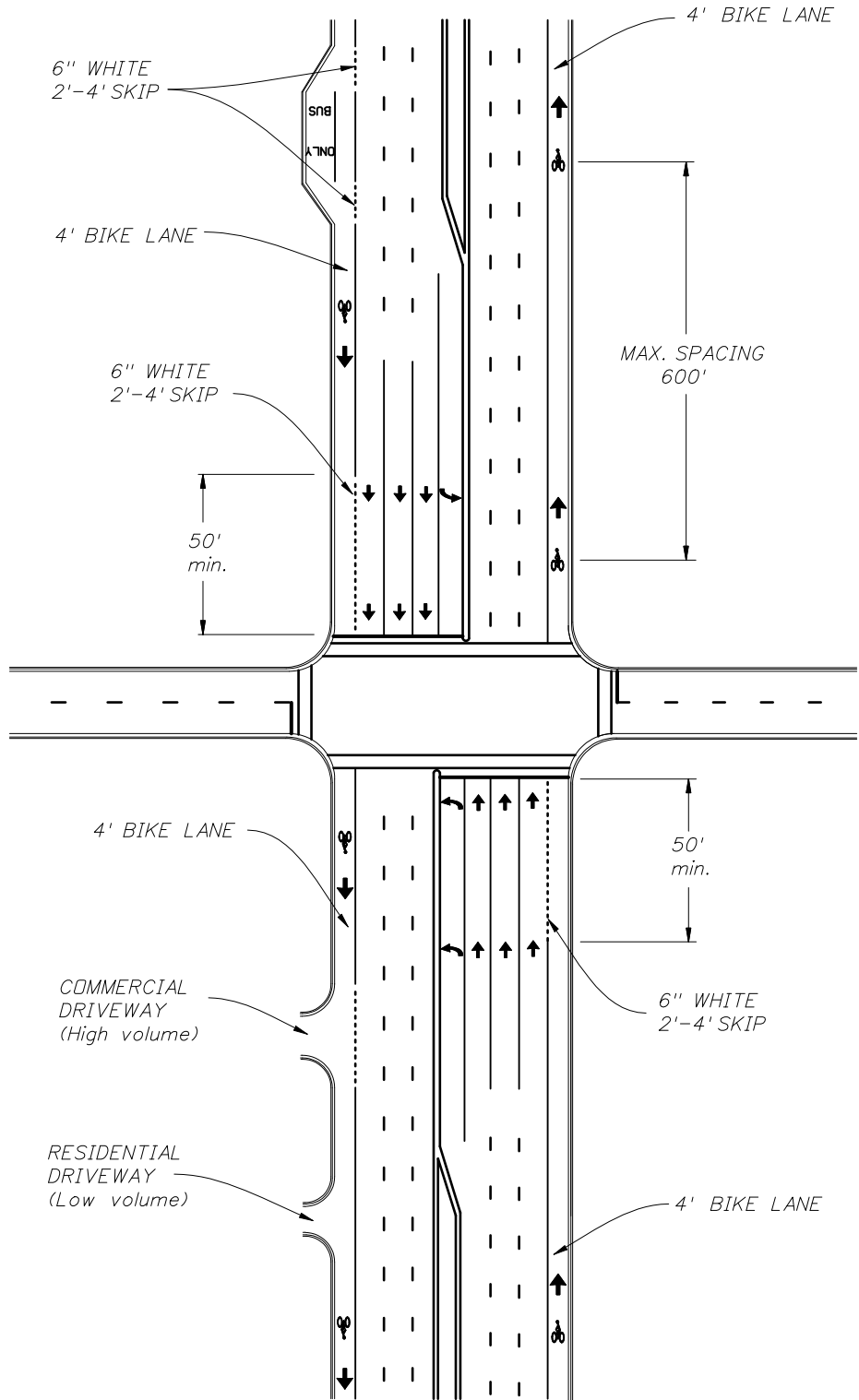
"UNIVERSAL SYMBOL OF ACCESSIBILITY"

MINIMUM PARKING RESTRICTION FOR SIGNALIZED INTERSECTION

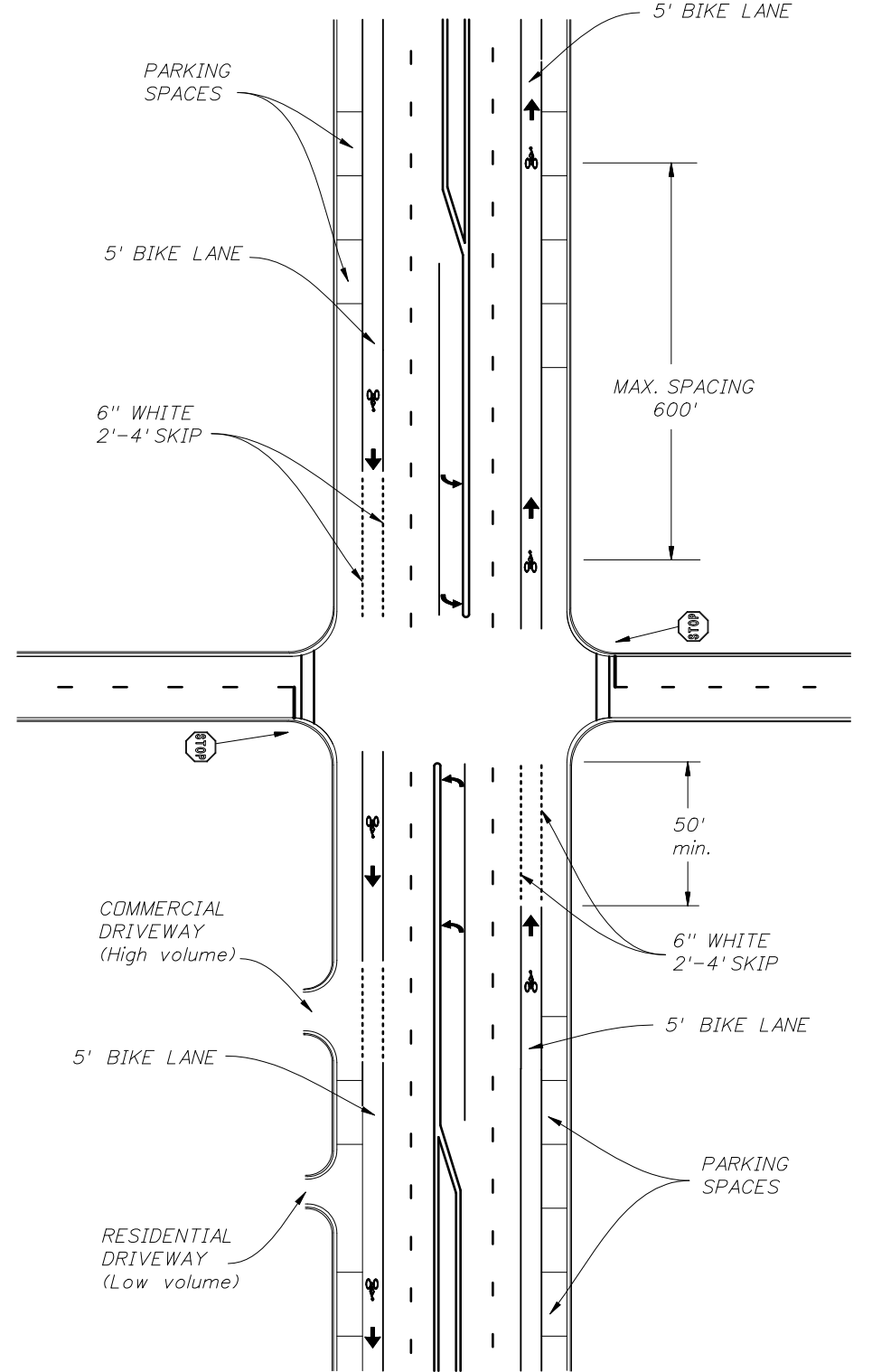




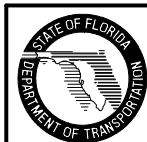
MAJOR INTERSECTION WITH SEPARATE RIGHT TURN LANE URBAN TYPICAL SECTION (CURB AND GUTTER)



MAJOR INTERSECTION, NO RIGHT TURN LANE PLUS BUSBAY URBAN TYPICAL SECTION (CURB AND GUTTER)



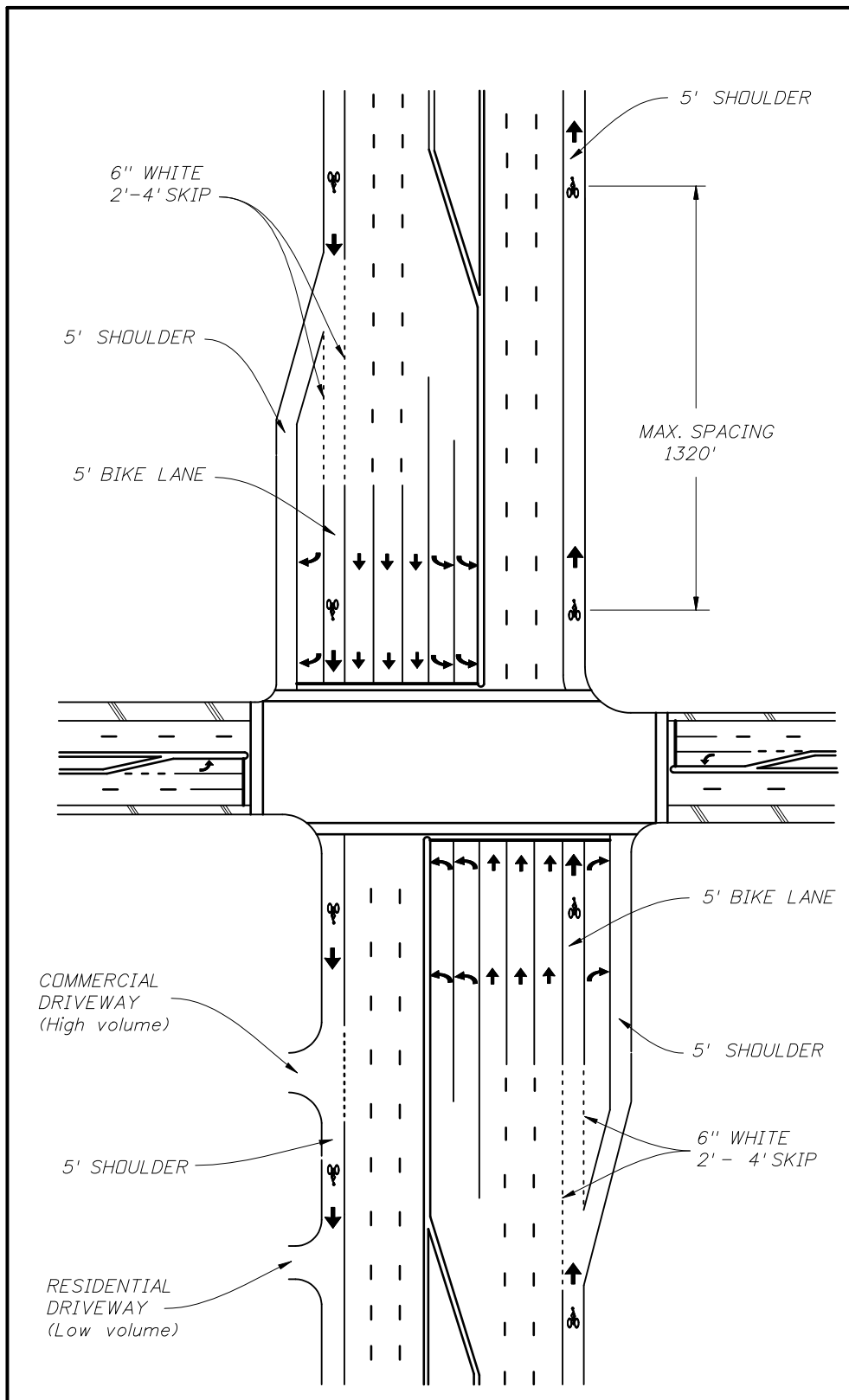
MAJOR WITH LOCAL STREET INTERSECTION, NO RIGHT TURN LANE, ON STREET PARKING URBAN TYPICAL SECTION (CURB AND GUTTER)



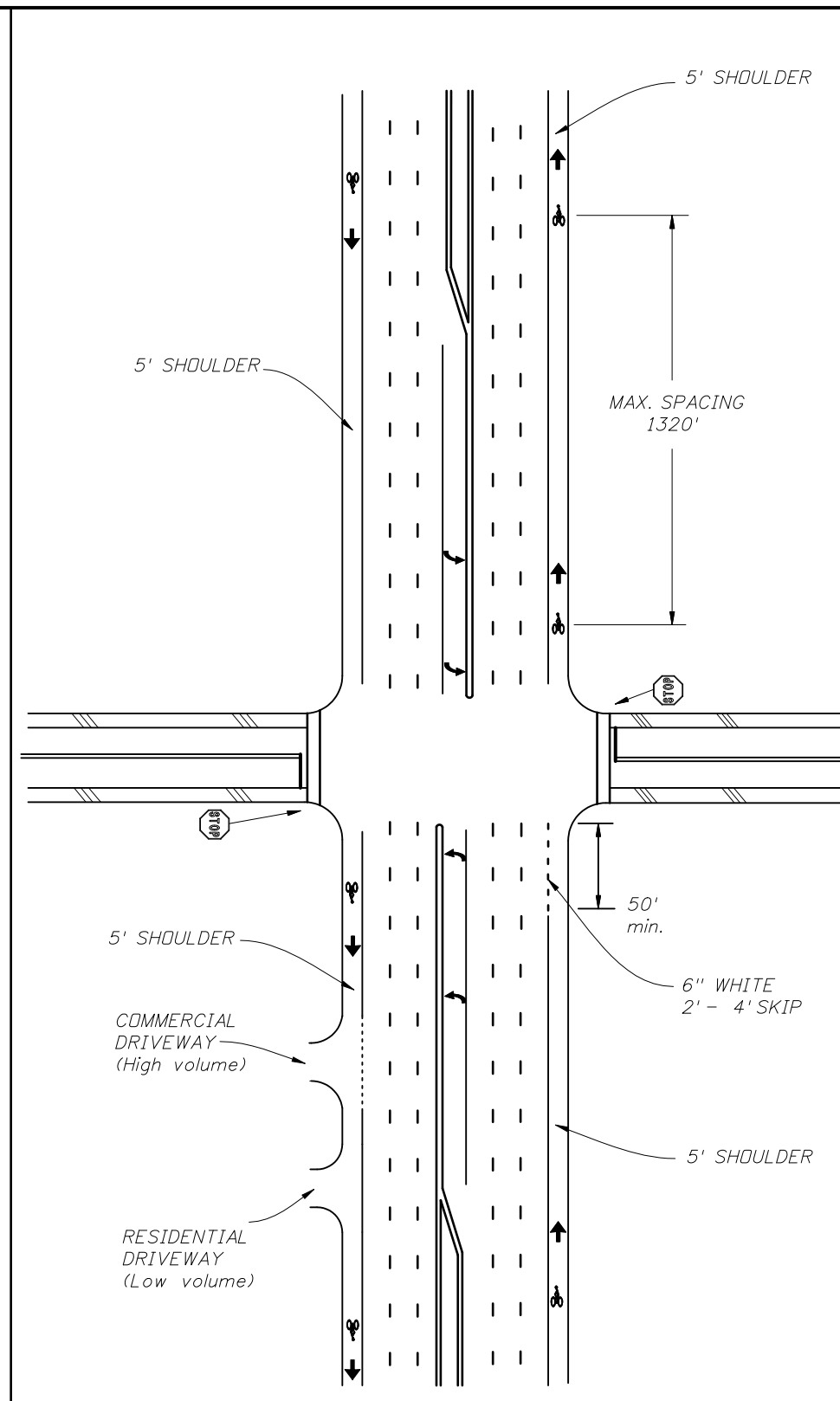
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SPECIAL MARKING AREAS (BICYCLE)

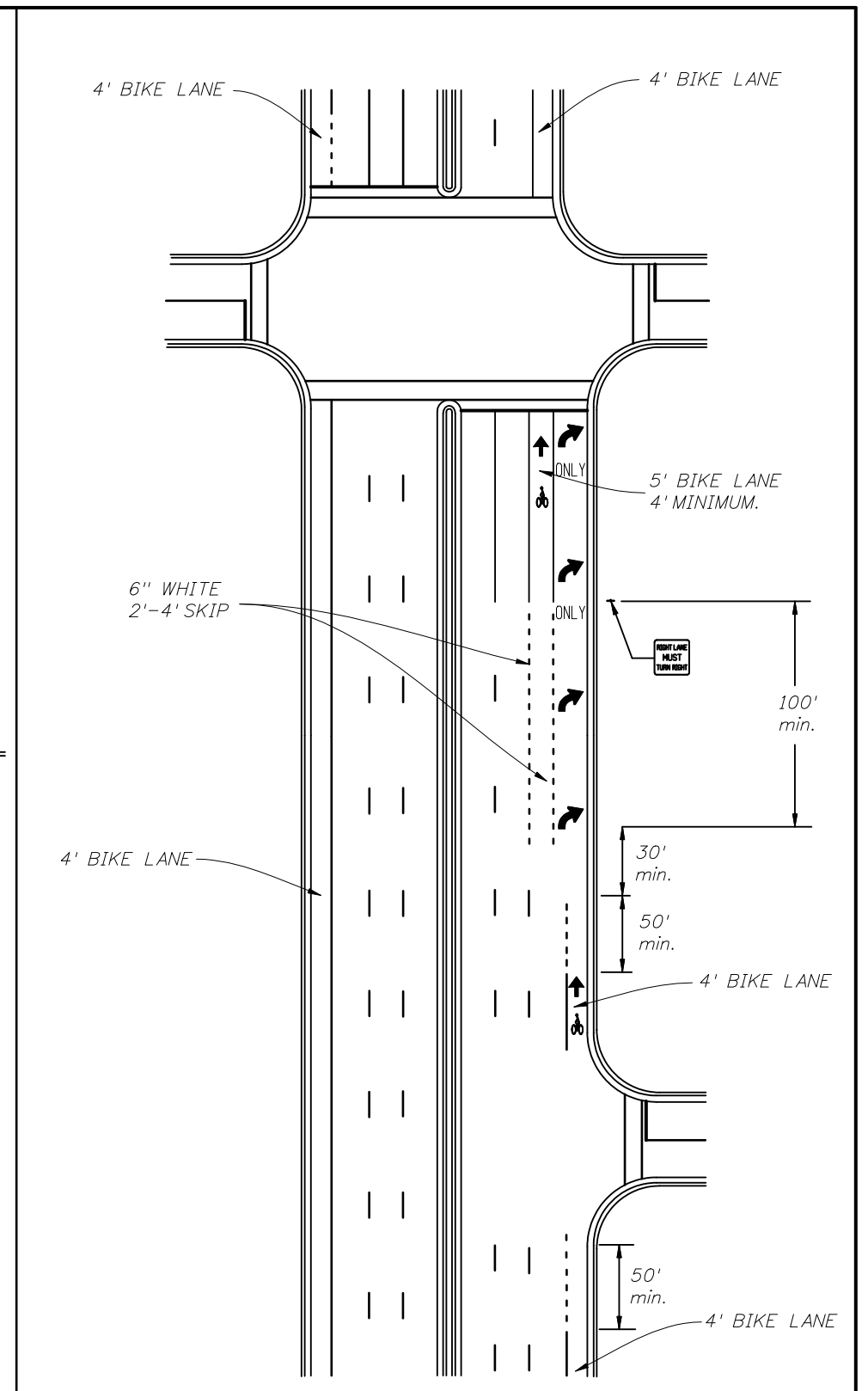
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MAJOR INTERSECTION WITH DESIGNATED SHOULDER,
AND SEPARATE RIGHT TURN LANE RURAL TYPICAL
SECTION (PAVED SHOULDER)



MAJOR WITH LOCAL STREET INTERSECTION, DESIGNATED
SHOULDER, AND NO RIGHT TURN LANE RURAL TYPICAL
SECTION (PAVED SHOULDER)



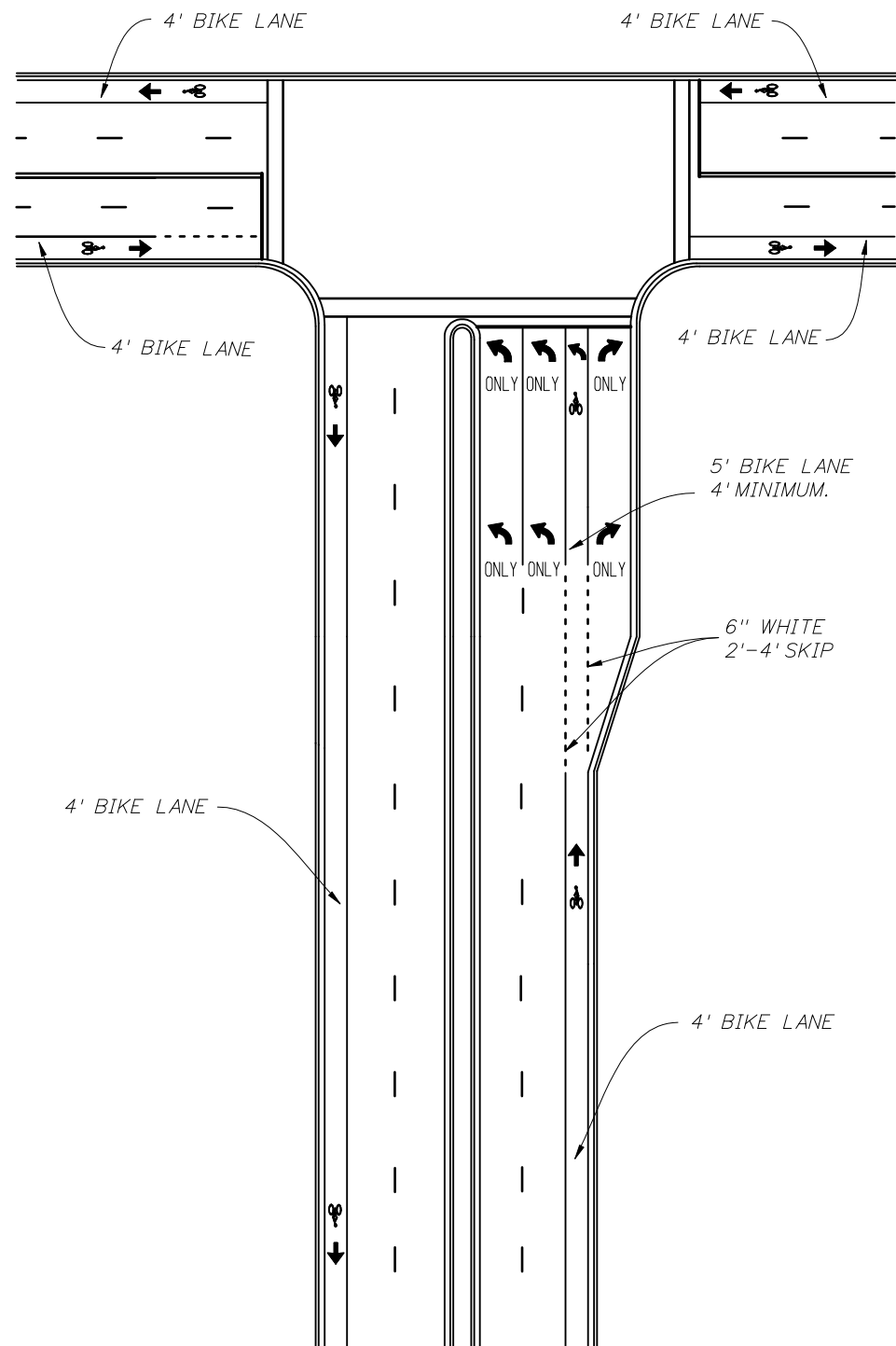
MAJOR INTERSECTION WITH RIGHT TURN DROP LANE AND
DESIGNATED OR UNDESIGNATED BIKE LANE URBAN TYPICAL
SECTION (CURB AND GUTTER)



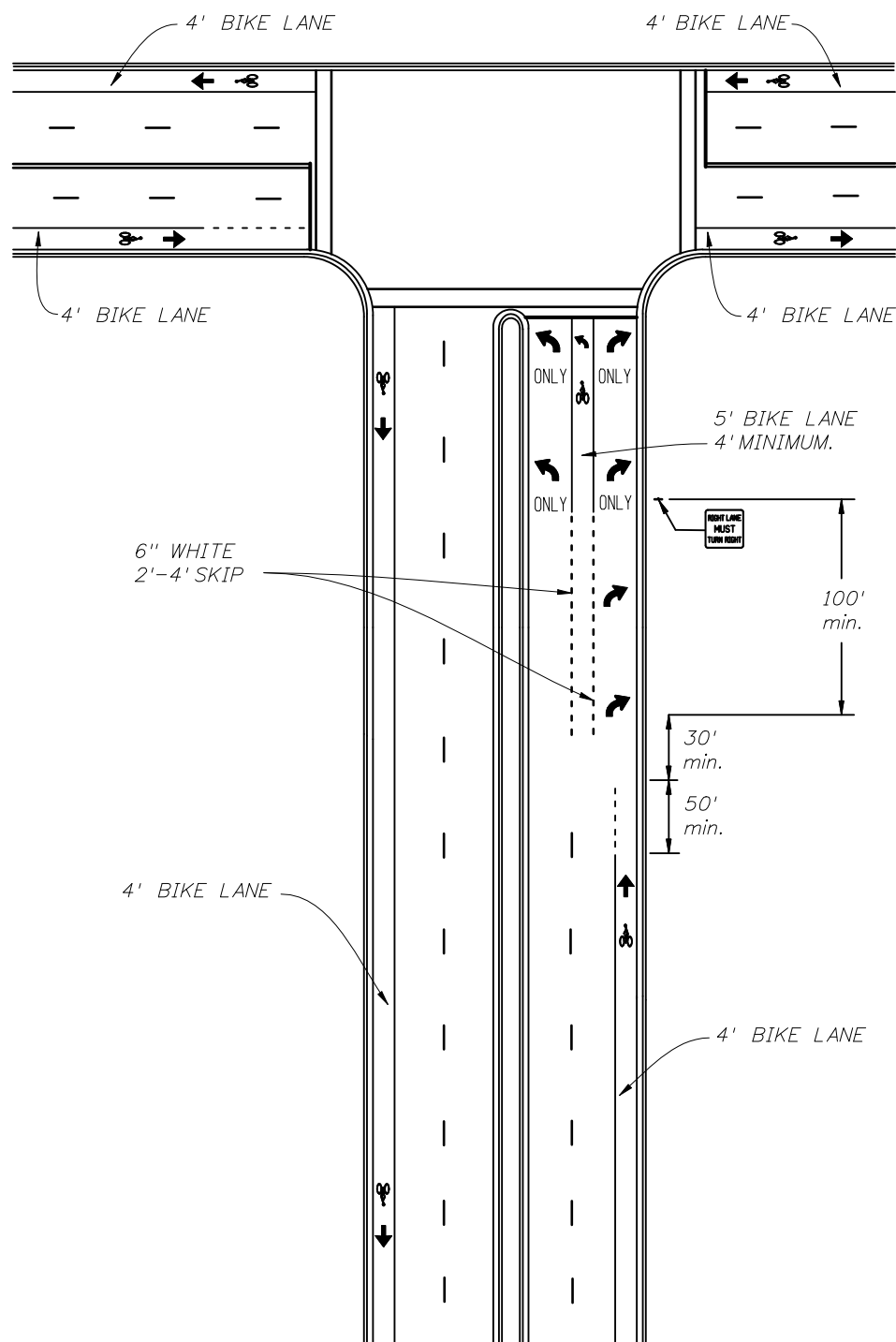
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SPECIAL MARKING AREAS (BICYCLE)

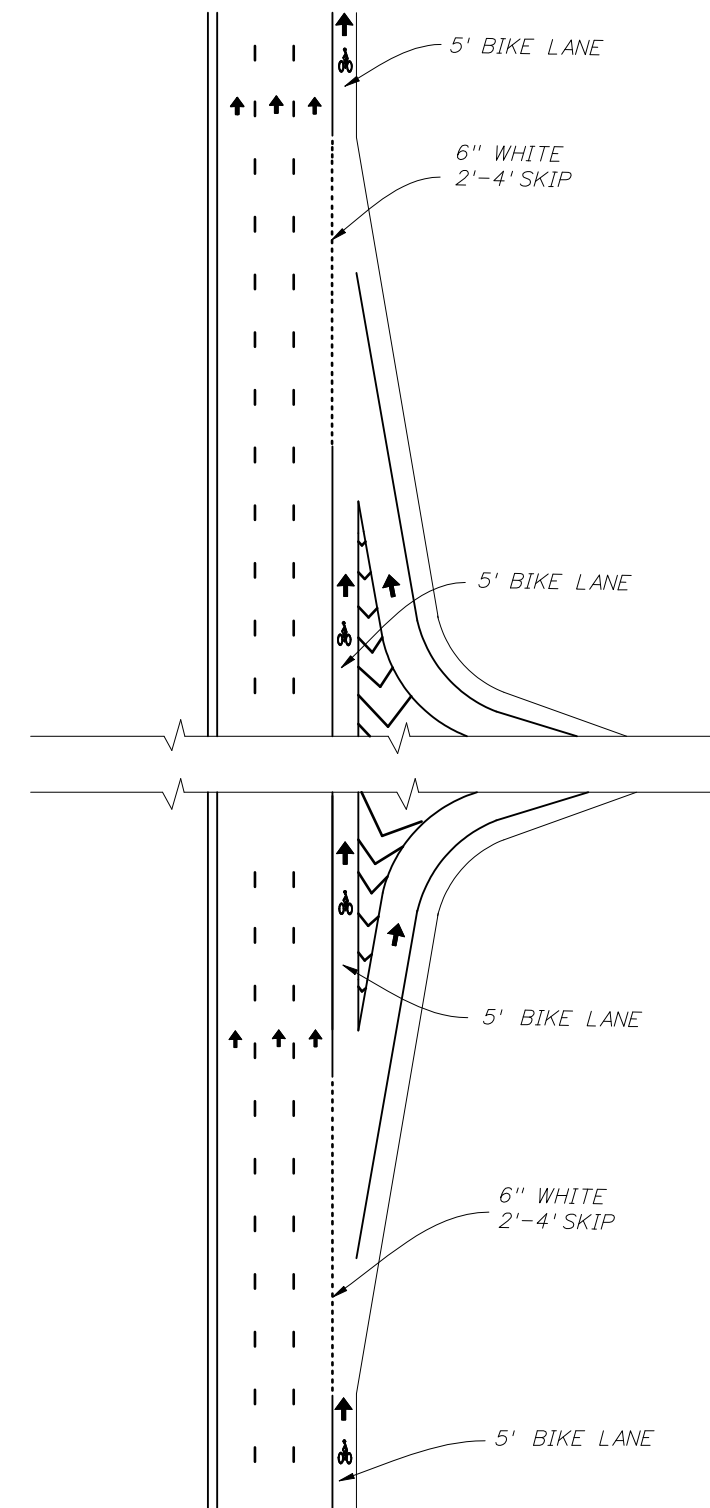
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"TEE" INTERSECTION WITH SEPARATE RIGHT TURN LANE URBAN TYPICAL SECTION (CURB & GUTTER)



"TEE" INTERSECTION WITH RIGHT TURN DROP LANE URBAN TYPICAL SECTION (CURB & GUTTER)



INTERCHANGE RAMP RURAL TYPICAL SECTION (PAVED SHOULDER)



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SPECIAL MARKING AREAS (BICYCLE)

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