

**GENERAL NOTES**

1. **CENTER LINES**  
 BROKEN YELLOW, 4 IN. WIDE - 10 FT. SEGMENTS WITH 30 FT. GAPS.  
 SOLID YELLOW, 4 IN. WIDE.  
 THESE LINES SEPARATE ADJACENT-OPPOSITE DIRECTION TRAFFIC LANES. DOUBLE LINES SHALL BE SPACED 4 IN. APART.
2. **LANE LINES**  
 BROKEN WHITE, 4 IN. WIDE - 10 FT. SEGMENTS WITH 30' GAPS.  
 SOLID WHITE, 4 IN. WIDE.  
 THESE LINES SEPARATE ADJACENT-SAME DIRECTION TRAFFIC LANES. A SOLID LINE MAY BE USED TO DISCOURAGE LANE CHANGING, WHILE TWO PARALLEL SOLID WHITE LINES ARE REQUIRED TO PROHIBIT LANE CHANGING.
3. **EDGE LINES**  
 SOLID WHITE OR YELLOW EDGE LINES SHALL BE 4 IN. WIDE.  
 YELLOW EDGE LINES SHALL BE USED ONLY FOR LEFT EDGE, IN THE DIRECTION OF TRAVEL OF DIVIDED STREETS AND HIGHWAYS (SEPARATED BY OTHER THAN A PAINTED MEDIAN) AND ONE-WAY ROADWAYS (INCLUDING RAMPS).  
 EDGE LINES ARE NOT CONTINUED THROUGH INTERSECTIONS AND ARE NOT BROKEN FOR DRIVEWAYS. CARE MUST BE TAKEN TO AVOID EDGE LINE APPEARING AS LANE LINE ALONG ROADWAYS WITH WIDE SHOULDERS AND/OR CLOSELY SPACED DRIVEWAYS.
4. **DOTTED EXTENSION LINES**  
 BROKEN WHITE, WIDTH MATCHING THE LINE BEING EXTENDED-2 FT. SEGMENTS WITH 4 FT. GAPS. THESE LINES ARE USED TO DELINEATE THE EXTENSION OF A LINE THROUGH AN INTERSECTION OR INTERCHANGE AREA.
5. **CHANNELIZING LINES**  
 SOLID WHITE, 8 IN. WIDE. THESE LINES ARE USED WITH ACCELERATION-DECELERATION LANES, PAVEMENT WIDTH TRANSITIONS, AND LEFT-RIGHT TURN SLOTS OR ISLANDS.
6. **CROSS-HATCHING LINES**  
 SOLID WHITE OR YELLOW, 8 IN. WIDE-45 DEGREE DIAGONAL, SPACED AT 25 FT. INTERVALS. THESE LINES ARE OPTIONAL AND MAY BE PLACED AT LOCATIONS INDICATED ON THE PLANS OR DETERMINED BY THE ENGINEER. YELLOW SHALL BE USED FOR PAINTED MEDIANS OR PAVEMENT WIDTH TRANSITIONS ONLY.  
 OPTIONAL DIAGONAL SHOULDER MARKINGS SHALL BE SOLID WHITE, 8 IN. WIDE, SPACED AT INTERVALS OF 20 FT. MINIMUM TO 100 FT. MAXIMUM.
7. **PARKING LINES**  
 SOLID WHITE, 3 IN. WIDE-DIAGONAL OR PARALLEL AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
8. **STOP LINES**  
 SOLID WHITE, 24 IN. WIDE-EXTEND PARALLEL TO INTERSECTED ROADWAY ACROSS ALL APPROACH LANES OR AS INDICATED AT LOCATIONS ON THE PLANS. LOCATE AT THE DESIRED STOPPING POINT, NOT MORE THAN 30 FT. NOR LESS THAN 4 FT. FROM THE NEAREST EDGE OF THE INTERSECTED TRAFFIC LANE.
9. **LANE DROP / AUX LINES**  
 BROKEN WHITE, 8 IN. WIDE - 3 FT. SEGMENTS WITH 12 FT. GAPS. THESE LINES SHOULD BEGIN 2600 FT. IN ADVANCE OF THE THEORETICAL GORE POINT TO DISTINGUISH THE LANE DROP FROM A CONTINUOUS LANE. THE CHANNELIZING LINE MAY BE EXTENDED APPROXIMATELY 300 FT. UPSTREAM.

(CONTINUED ON SHEET NO. 2)

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Sheet Revisions	
Date:	Comments
02/08/17	UPDATED #9 IN GEN. NOTES FROM 9" TO 12" UPDATED #9 TITLE TO INCLUDE "AUX LINES" UPDATED LANE DROP TO ACCEL LANE DELETED DIMENSION IN COMB. ACCEL-DECEL DRAWING ADDED DIMENSIONS IN PARALLEL ACCEL LANE DRAWING.

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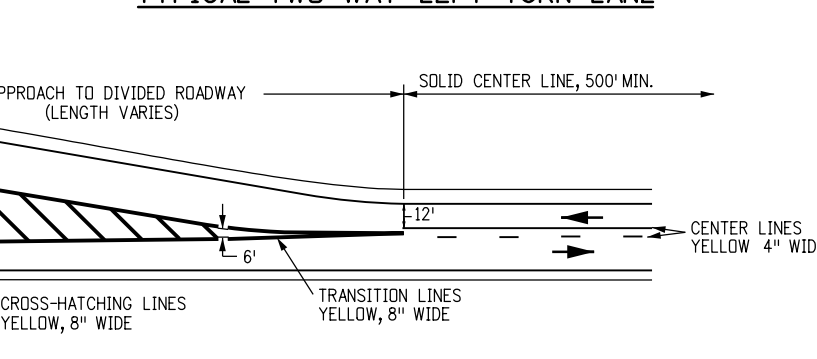
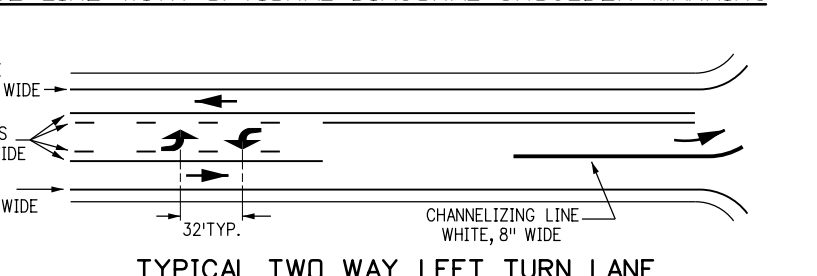
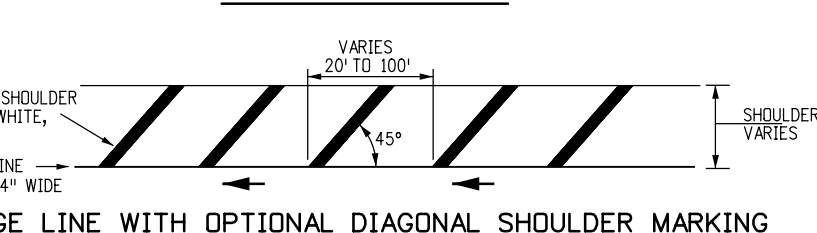
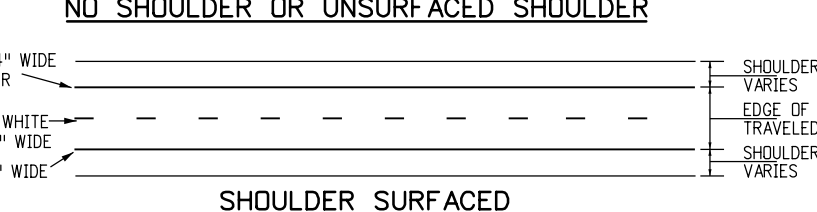
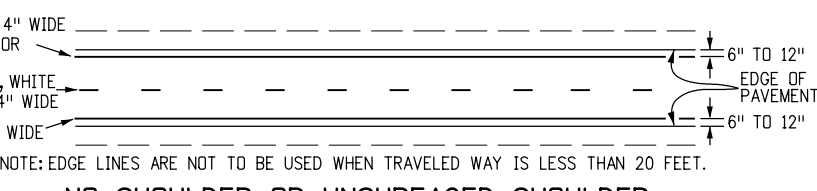
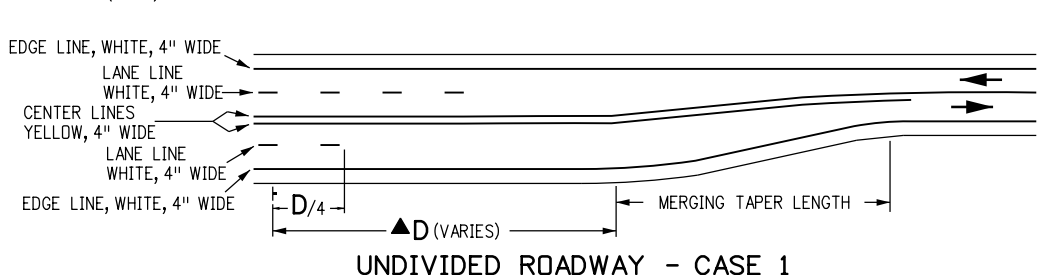
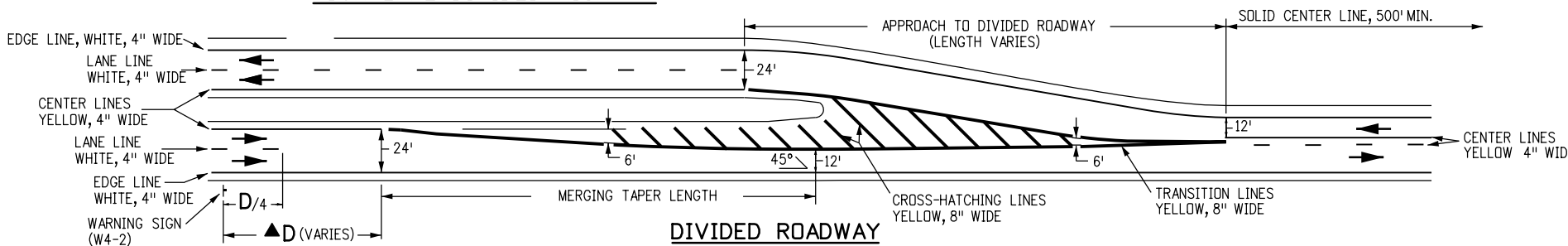
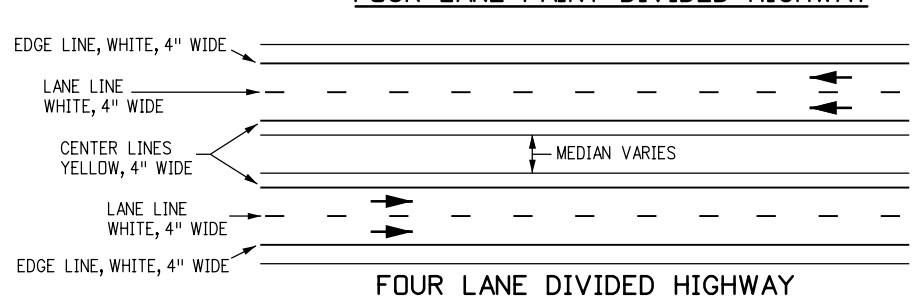
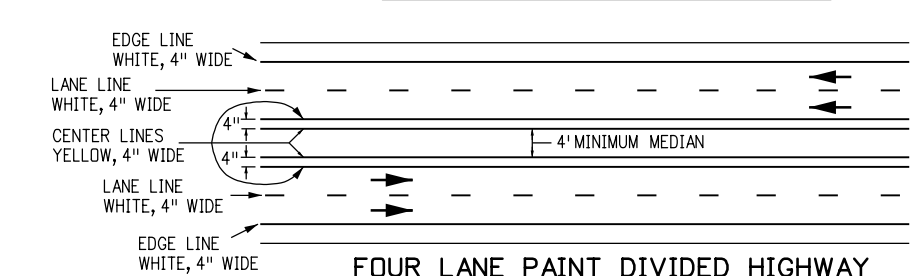
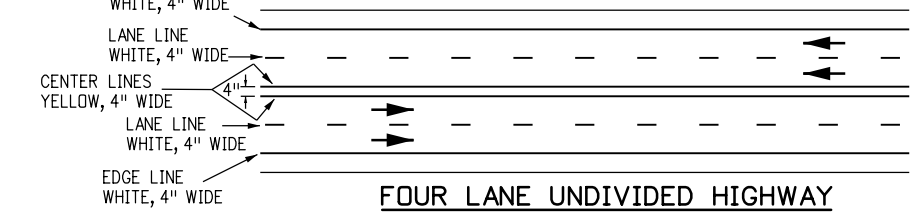
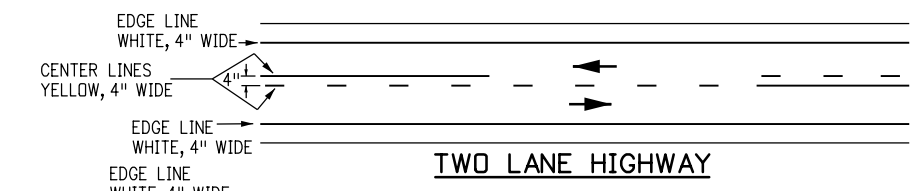
**PAVEMENT MARKINGS**

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**STANDARD PLAN NO.**

S-627-1

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**GENERAL NOTES**

(CONTINUED FROM SHEET NO. 1)

10. **ACCEL LANE LINES**  
BROKEN WHITE, 4 IN WIDE - 3 FT SEGMENTS WITH 12 FT GAPS. THESE LINES WOULD BE USED WHERE TWO THRU LANES OR AN ACCEL LANE MERGE INTO ONE THRU LANE.
11. **CROSSWALK LINES**  
SOLID WHITE, 12 IN. WIDE FOR TRANSVERSE LINE TYPE - EXTEND ACROSS ENTIRE WIDTH OF PAVEMENT. IF NO ADVANCE STOP LINE IS PROVIDED, INCREASE THE WIDTH OF THE CROSSWALK LINES TO 24 IN. THE DISTANCE BETWEEN THE LINES IS USUALLY DETERMINED BY THE WIDTH OF THE SIDEWALKS SO CONNECTED, HOWEVER, IN NO CASE SHALL THIS BE LESS THAN 6 FT.
12. **WORD, ARROW AND SYMBOL MARKINGS**  
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH "THE STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION.
13. **MERGING TAPER LENGTH**  
L = MINIMUM LENGTH OF TAPER.  
S = DESIGN SPEED FOR NEW CONSTRUCTION OR NUMERICAL VALUE OF THE POSTED SPEED LIMIT OF THE 85TH PERCENTILE SPEED OF EXISTING TRAFFIC.  
W = WIDTH TRANSITIONED  
FORMULA: FOR SPEED 45 MPH OR MORE,  $L = S \times W$   
FOR SPEED 40 MPH OR LESS,  $L = \frac{WS^2}{60}$
14. **TRANSITION LINES**  
SOLID YELLOW, 8 IN. WIDE. THESE LINES ARE USED WHERE ADDITIONAL EMPHASIS OR VISIBILITY IS DESIRABLE AT PAVEMENT WIDTH TRANSITIONS. PLACE AT LOCATIONS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
15. **SPEED MEASURING MARKING**  
SOLID WHITE, 24 IN. - EXTEND 4 FT. FROM OUTSIDE OF EDGE LINES ON SHOULDERS.

**NOTE:**  
D = THE DISTANCE FROM THE LANE ENDS SIGN (W4-2) TO THE BEGINNING OF THE MERGING TAPER. FOR MORE INFORMATION ON THE "D" VALUE REGARDING SIGN AND PAVEMENT MARKING PLACEMENT, SEE THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", TABLE 2C-4, CONDITION A: SPEED REDUCTION AND LANE CHANGING IN HEAVY TRAFFIC AND FOOTNOTE 2 REGARDING TYPICAL CONDITIONS.

**LEGEND**

→ Direction of Travel

**TYPICAL PAVEMENT WIDTH TRANSITION MARKINGS**

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Sheet Revisions	
Date:	Comments
10/18/12	ADDED MORE NOTES ON "D" VALUE
02/08/17	ADDED LEGEND UPDATED WORD "TRANSITION" TO "MERGING" UPDATED NOTE ADDED NEW NOTE 10 RENUMBERED NOTES FOLLOWING 10

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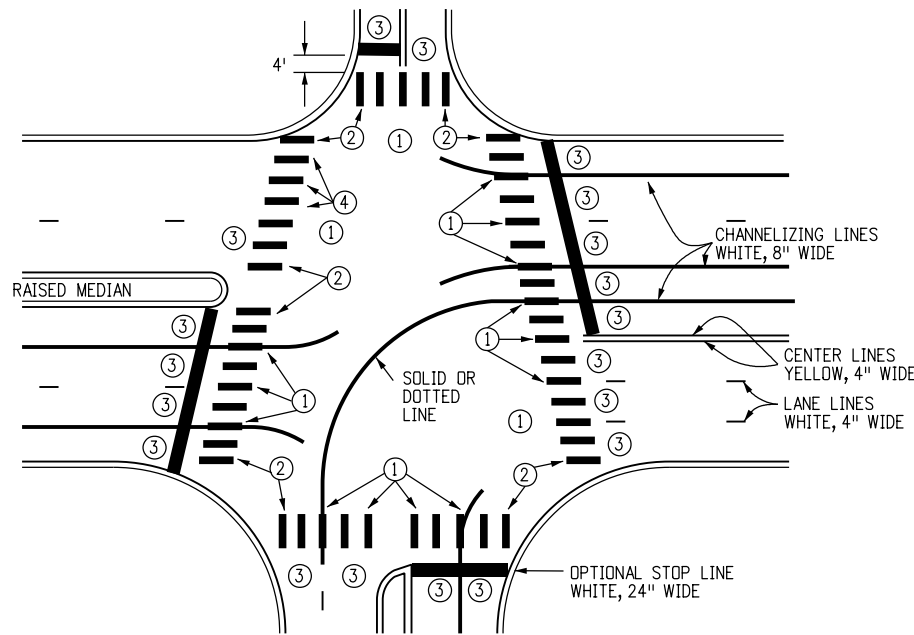
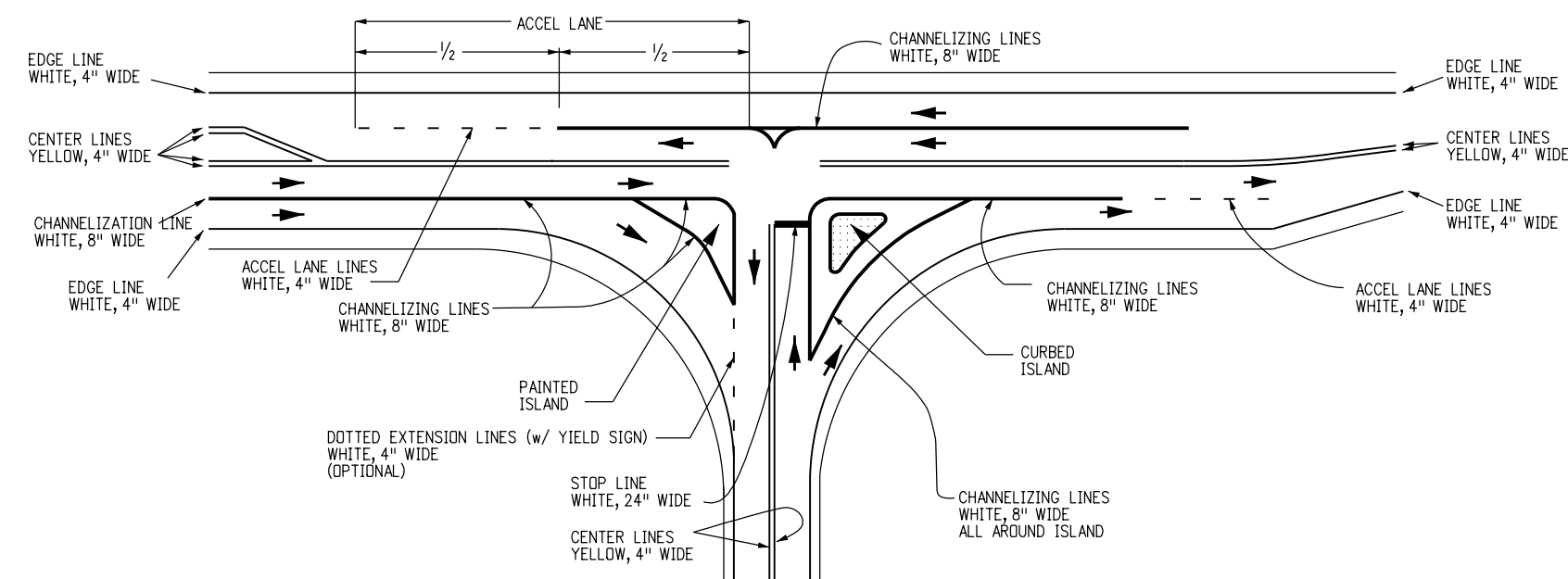
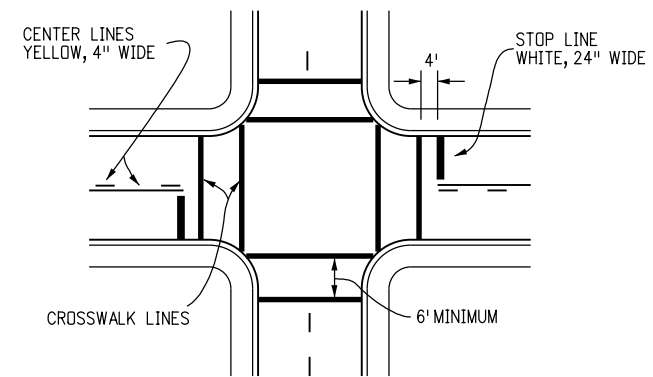
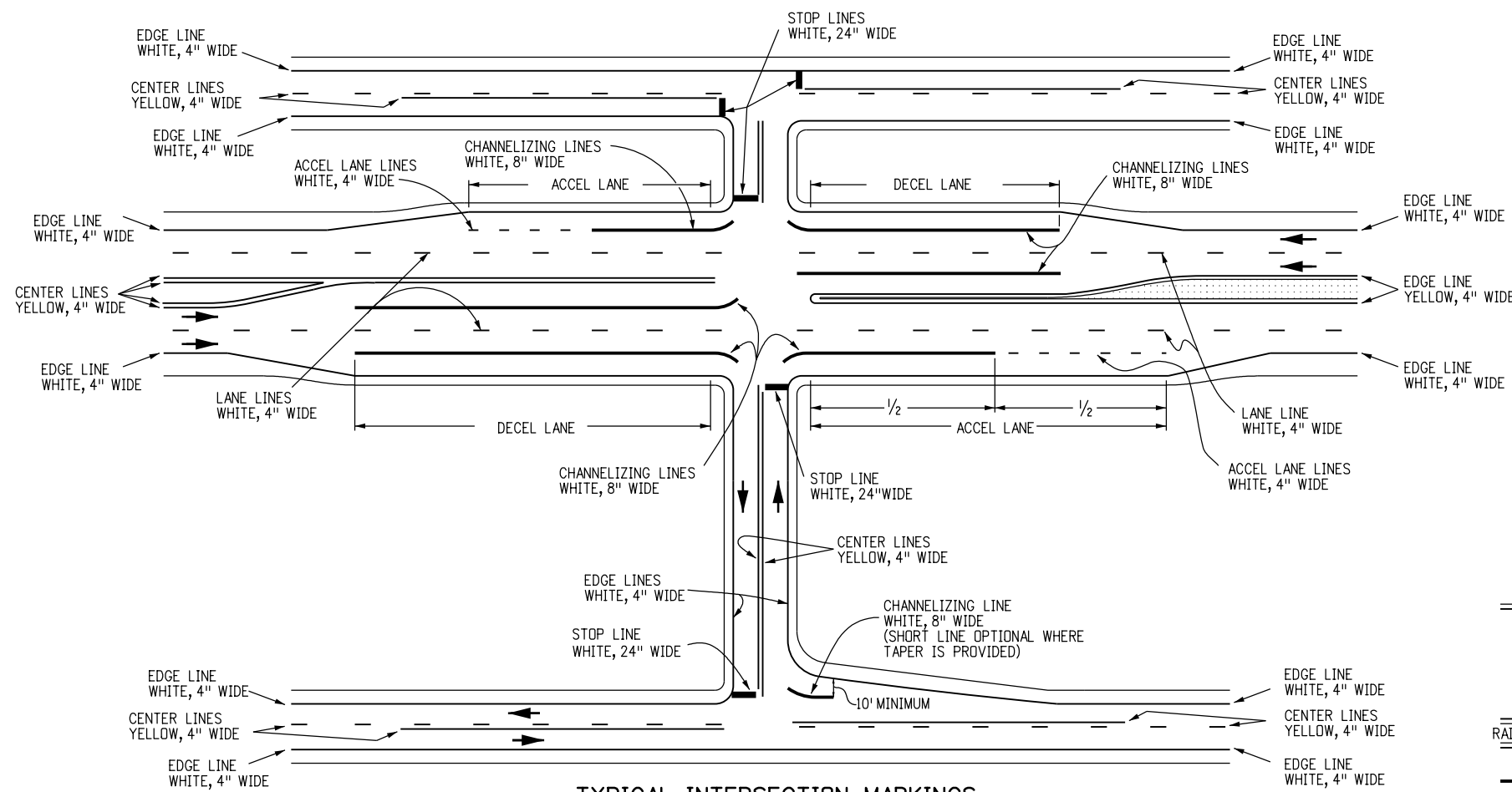
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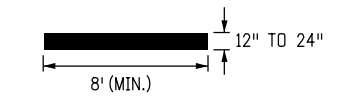
**PAVEMENT MARKINGS**

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**CROSSWALK LINE DETAIL**



**LEGEND**  
 → Direction of Travel

**CROSSWALK NOTES**

- ① CENTER CROSSWALKS ON CURB RAMPS. IF SUCH RAMPS ARE NOT PROVIDED CENTER ON SIGNAL POLES WHEREVER PRACTICAL.
- ② CENTER ON LANE, CENTER OR CHANNELIZING LINE.
- ③ CENTER OR EXTENDED FLOW LINE.
- ④ CENTER BETWEEN ADJACENT LINES.
- ⑤ LINES AND SPACES TO APPROXIMATE ADJACENT PATTERN.

**INTERSECTIONS, ISLANDS AND CROSSWALKS**

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**Sheet Revisions**

Date:	Comments
02/08/17	UPDATE LANE DROP LINES TO ACCEL LANES ADDED LEGEND UPDATE LANE ISLAND MARKINGS & ADDED ADDED DIMENSIONS TO ACCEL LANE LINES UPDATED "LONGITUDINAL" TO "CROSSWALK"

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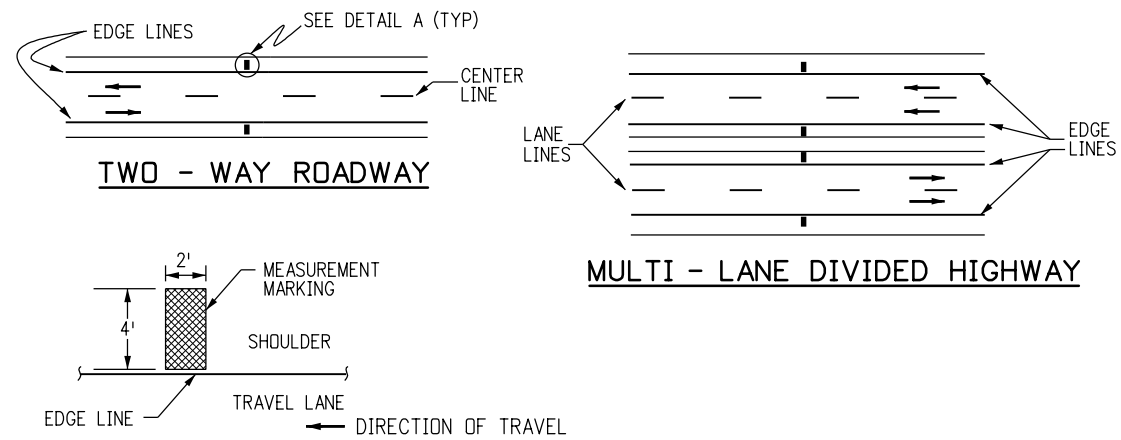
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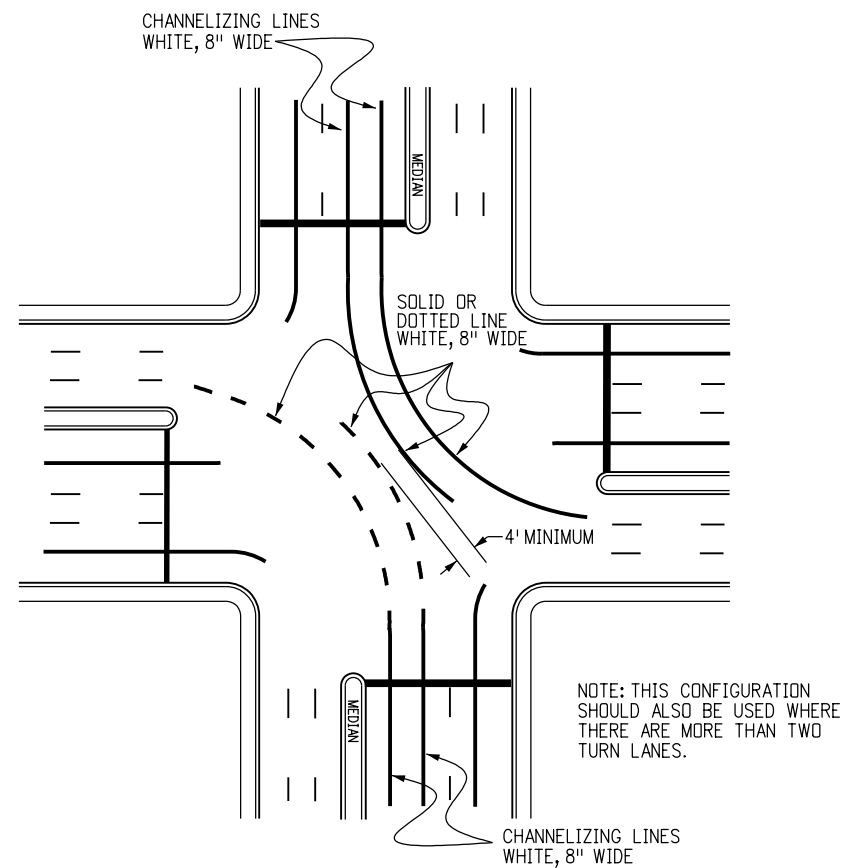
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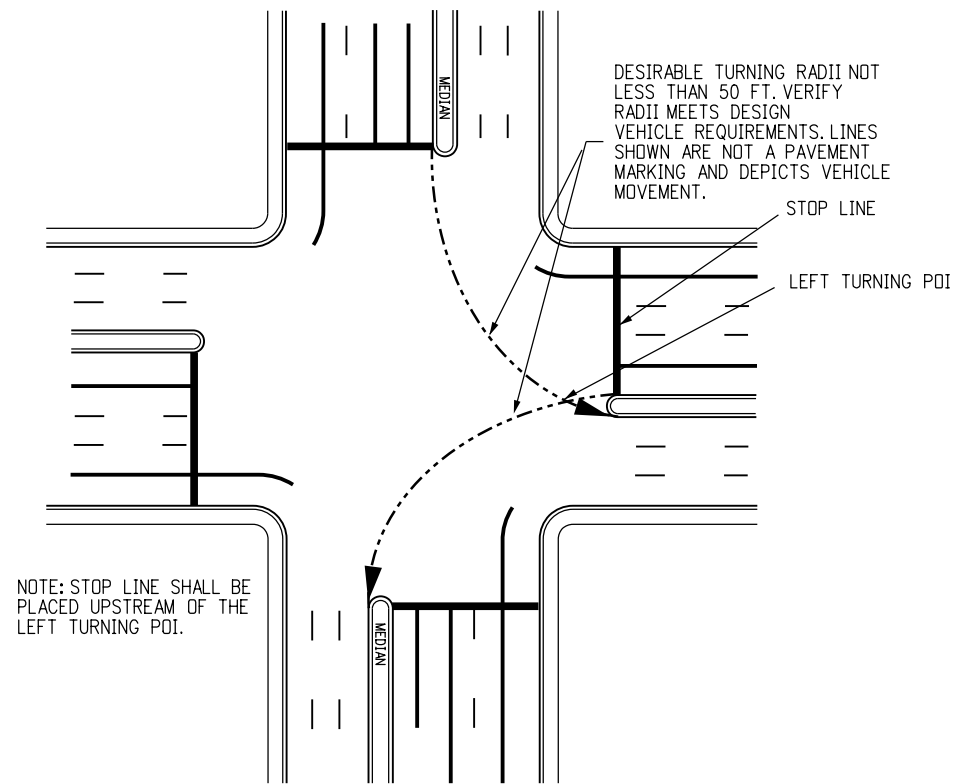
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**DETAIL A**  
**TYPICAL SPEED MEASUREMENT MARKING**



**TYPICAL DOUBLE LEFT TURN MARKINGS**



**TYPICAL STOP LINE PLACEMENT**

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Date:	Comments
02/08/17	UPDATE "TYPICAL STOP BAR PLACEMENT" TITLE TO "TYPICAL STOP LINE PLACEMENT"

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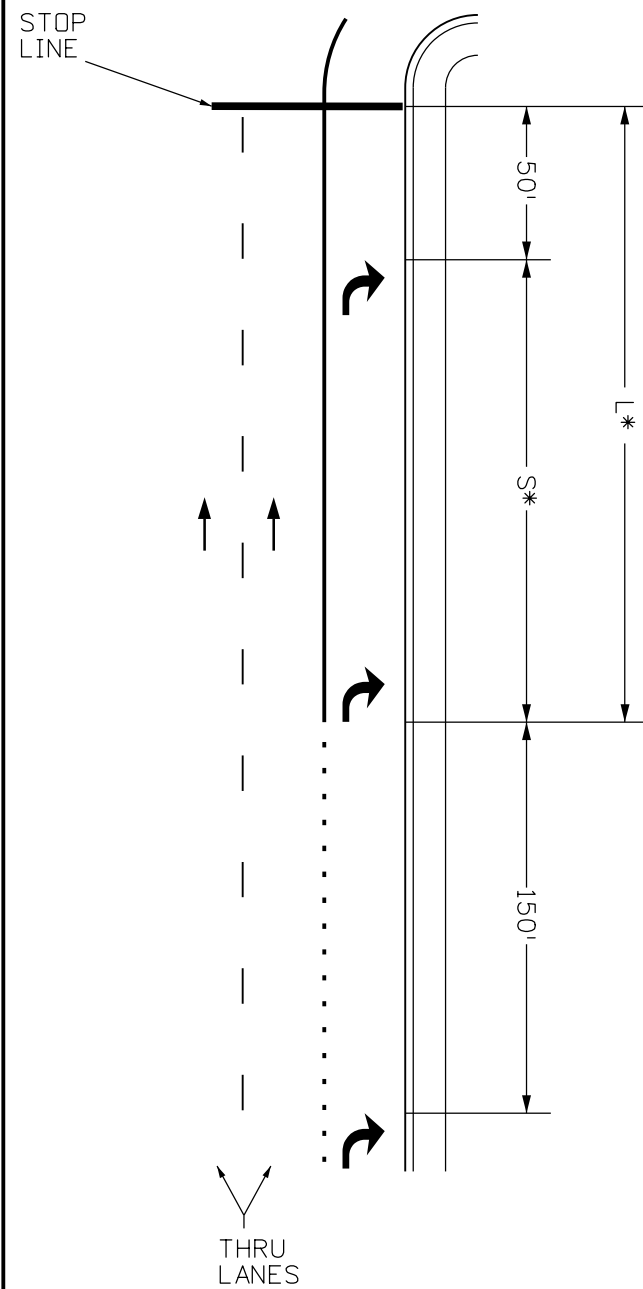
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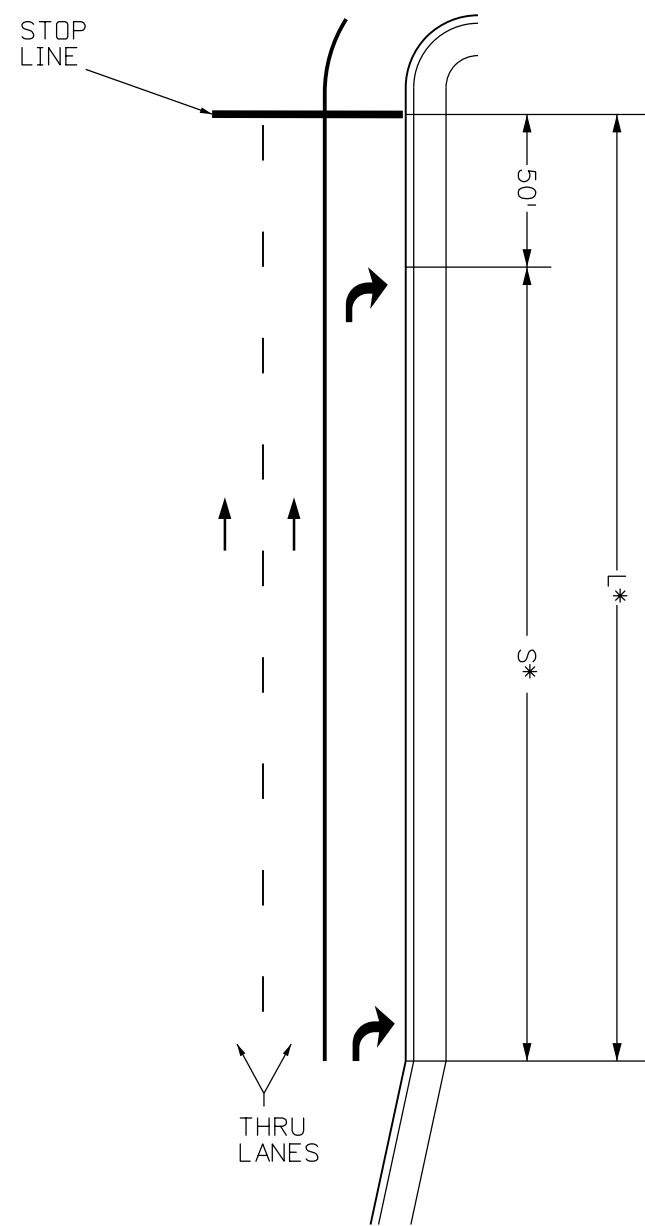
**PAVEMENT MARKINGS**

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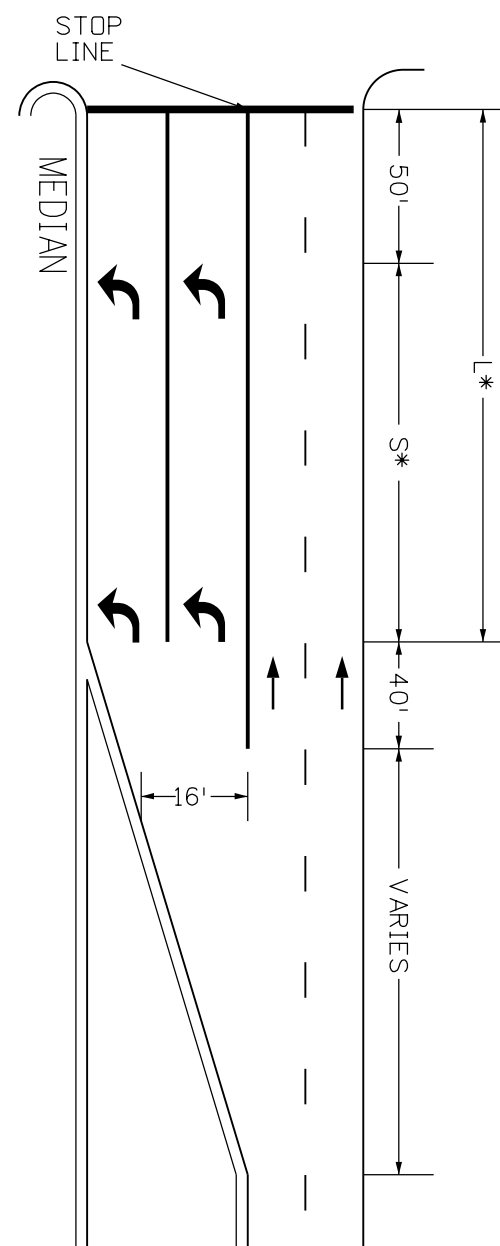
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**LANE DROP**



**POCKET LANE**



**DOUBLE TURNING**

**GENERAL NOTES**

1. THE SPACING, IN THE TABLE APPLIES TO LEFT & RIGHT TURN LANES.
2. WHEN ONE (1) ARROW IS USED, IT SHALL BE PLACED AT THE BEGINNING OF THE FULL WIDTH TURN LANE, OTHERWISE USE THE TABLE BELOW FOR ARROW PLACEMENT.

LENGTH (L)	NO. OF ARROWS PER LANE	SPACING (S)
L < 200'	1	NA
200' - 350'	2	EVENLY SPACED BETWEEN 150'-300'
350' - 650'	3	
650' - 950'	4	
950' ≤	≥5	

\*L (LENGTH) AND \*S (SPACING) PROVIDED IN THE TABLE ABOVE WILL HELP DETERMINE THE NUMBER OF ARROWS NEEDED PER LANE.

**LEGEND**

→ Direction of Travel

**ARROW PLACEMENTS AT INTERSECTIONS**

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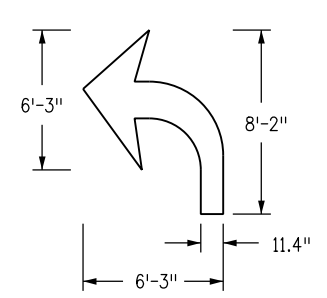
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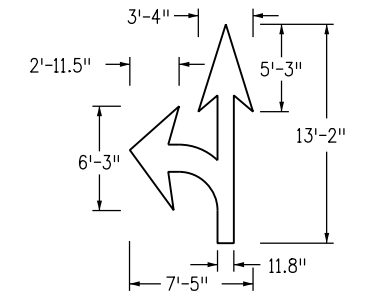
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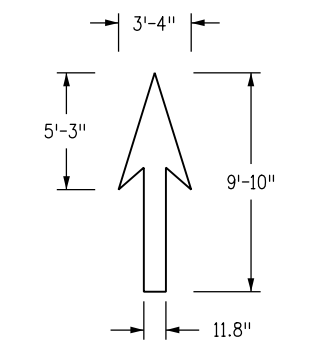
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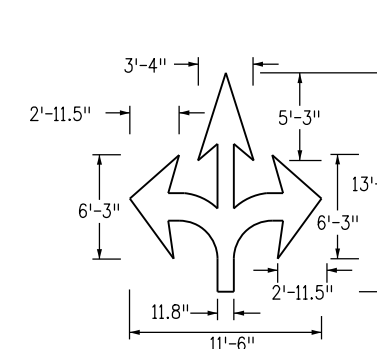
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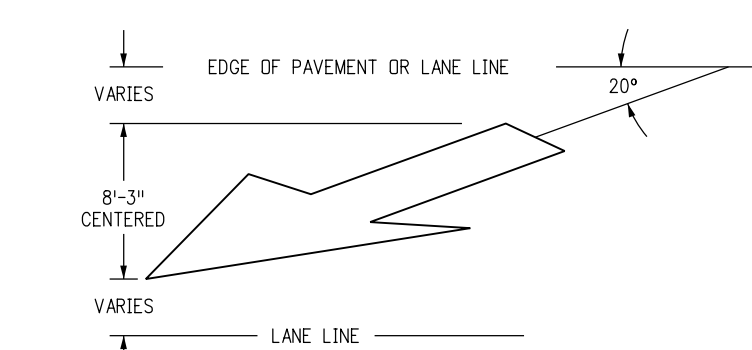
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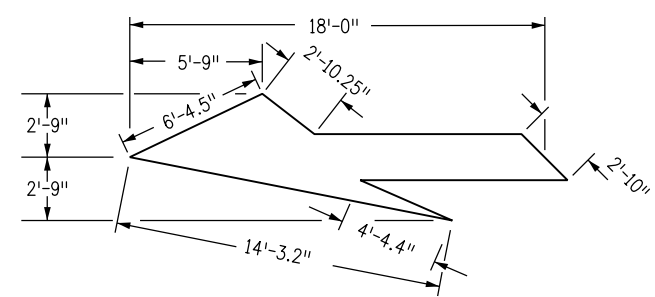
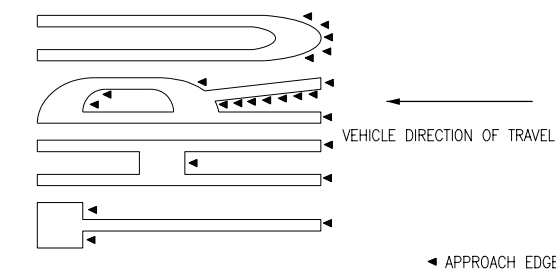
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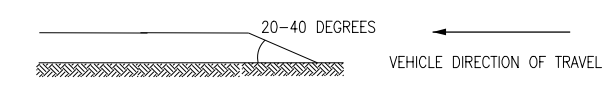
AREA = 39.8 SQ.FT.



TYPICAL APPROACH EDGE TAPERING VIEW



TYPICAL APPROACH EDGE TAPERING PROFILE VIEW



**WORD AND SYMBOL NOTES**

IF HEIGHT IS INCREASED OR DECREASED THEN ALL MEASUREMENTS CHANGE PROPORTIONATELY. EXAMPLE: "H" MEASUREMENT FOR STOP IS REDUCED TO 4' FROM 8' THEN SQUARE FEET = 5.75 (1/4 OF 23.0 SQ. FT.).

PAVEMENT WORD AND SYMBOL MARKINGS, TRANSVERSE AND LONGITUDINAL (CONTINENTAL) CROSSWALK LINES, AND STOP LINES WILL BE PAID FOR IN SQUARE FEET USING THEIR SPECIFIC BID ITEMS.

LETTER SPACING SHALL BE 8 INCHES EXCEPT FOR THE LETTER "A" WHICH IS 6 INCHES.

USE THE MARKING WORD "BIKE" IF 6 FT TO 8 FT BIKE LANES ARE INSTALLED.

**TAPERING NOTES**

ALL PAVEMENT MARKING APPROACH EDGES FROM THE VEHICLE DIRECTION OF TRAVEL SHALL BE TAPERED USING A PUTTY KNIFE OR SIMILAR TOOL.

**DESIGNATED PAYMENT AREAS**

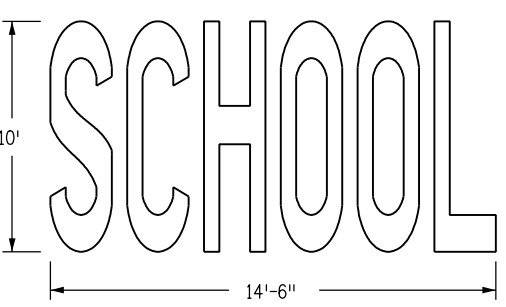
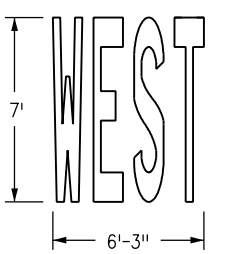
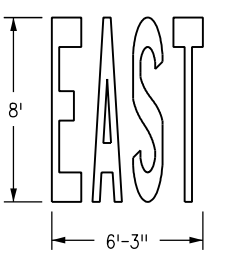
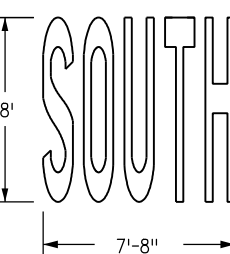
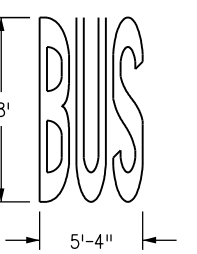
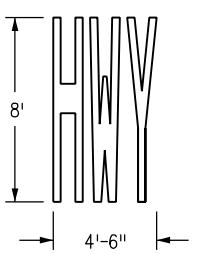
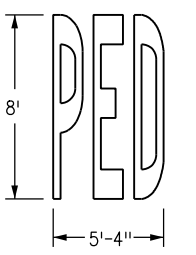
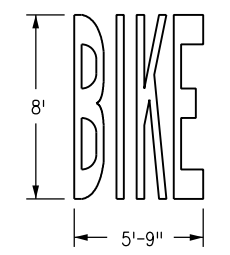
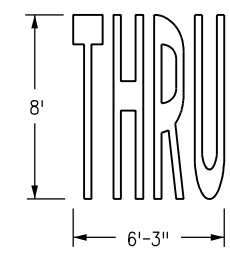
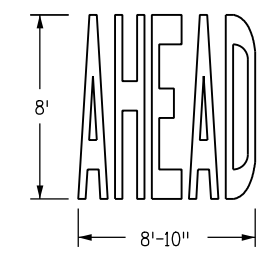
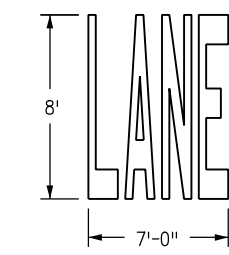
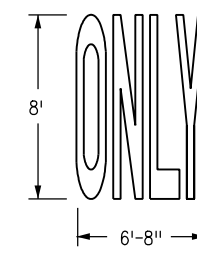
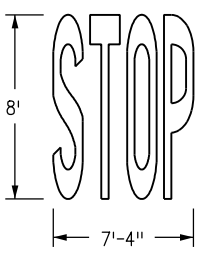
FOR THE FOLLOWING H, W, AND S DIMENSIONS PAY:

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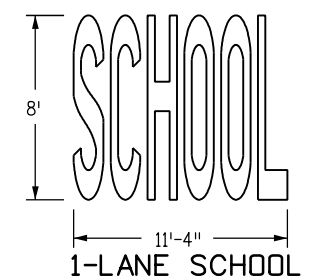
- BIKE - 5.5 SQ.FT.
- LANE - 6.0 SQ.FT.
- ONLY - 6.0 SQ.FT.
- XING - 5.0 SQ.FT.

**H = 8' WORDS**

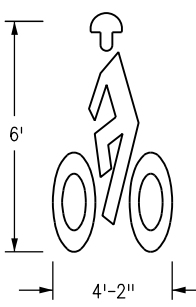
- STOP - 23.0 SQ.FT.
- ONLY - 22.5 SQ.FT.
- AHEAD - 29.0 SQ.FT.
- BUS - 18.5 SQ.FT.
- SCHOOL(1L) - 33.0 SQ.FT.
- SCHOOL(2L) - 85.0 SQ.FT.
- NORTH - 30.6 SQ.FT.
- EAST - 22.1 SQ.FT.
- XING - 20.0 SQ.FT.
- LANE - 22.5 SQ.FT.
- BIKE - 21.0 SQ.FT.
- HWY - 16.5 SQ.FT.
- THRU - 22.0 SQ.FT.
- PED - 17.5 SQ.FT.
- SOUTH - 28.5 SQ.FT.
- WEST - 23.7 SQ.FT.



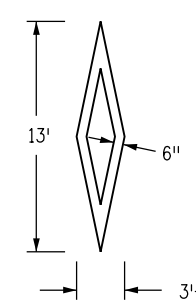
STROKE = 8"  
2-LANE SCHOOL



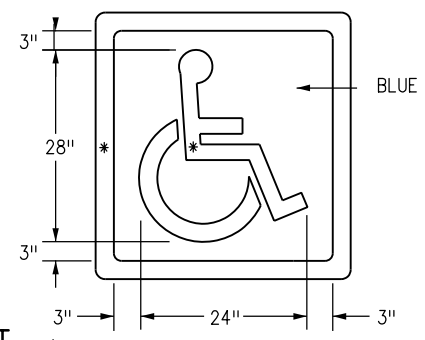
1-LANE SCHOOL



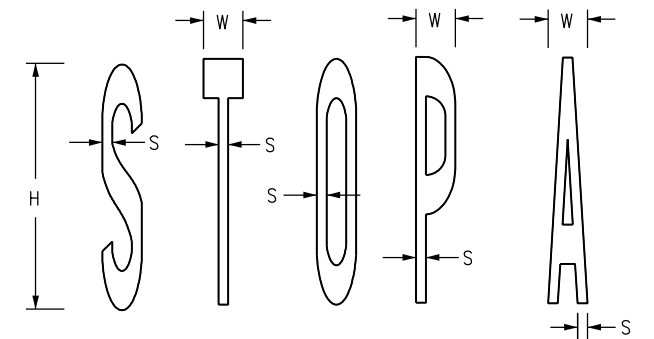
AREA = 11.9 SQ.FT.



AREA = 10 SQ.FT.



\* WHITE 3" STROKE WIDTH (BORDER MAY BE 4" STROKE WIDTH)



H = HEIGHT  
W = WIDTH  
S = STROKE

H = 8'  
W = 1'-3.4" TO 1'-4"  
S = 3.8" TO 4"

H = 4'  
W = XX TO XX  
S = 1.9" TO 2"

**PAVEMENT MARKING WORDS AND SYMBOLS**

Computer File Information	
Creation Date: 07/04/12	Initials: SCL
Last Modification Date: 02/08/17	Initials: MBhat
Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans	
Drawing File Name: S-627-01.dgn	
CAD Ver.: MicroStation V8i Scale: Not to Scale Units: English	

Sheet Revisions	
Date:	Comments
02/08/17	UPDATED BICYCLIST SYMBOL ADDED NOTE REGARDING "BIKE" MARKING WORD RELOCATED ELONGATED ROUTE SHIELDS TO PAGE 7 OF 8 ADDED CARDINAL STENCILS & UPDATED STENCIL DIMENSIONS ADDED 3 HEAD COMBINATION ARROW & UPDATED ARROW DIMENSIONS AND AREAS

Colorado Department of Transportation

4201 East Arkansas Avenue  
Denver, Colorado 80222  
Phone: 303-757-9543 FAX: 303-757-9219

Safety & Traffic Engineering KCM

**PAVEMENT MARKINGS**

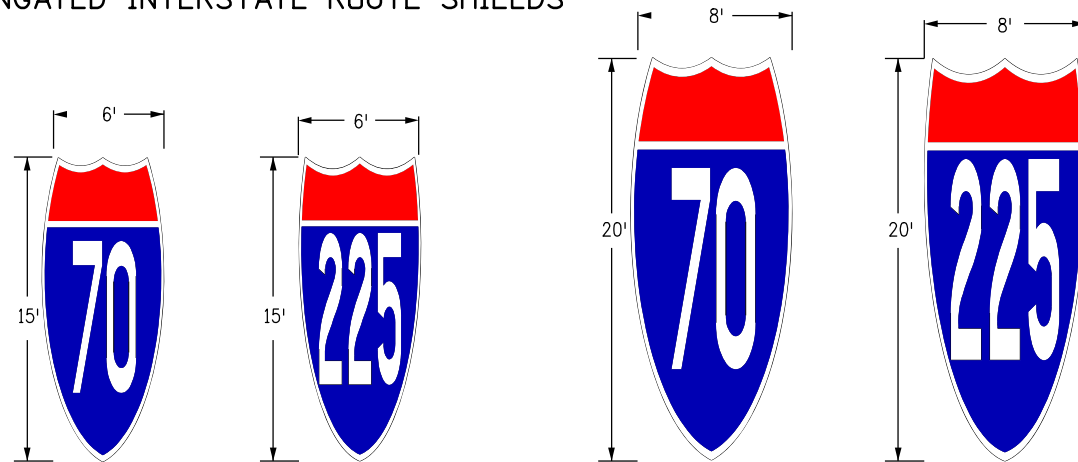
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**ELONGATED INTERSTATE ROUTE SHIELDS**



**DESIGNATED PAYMENT AREAS**

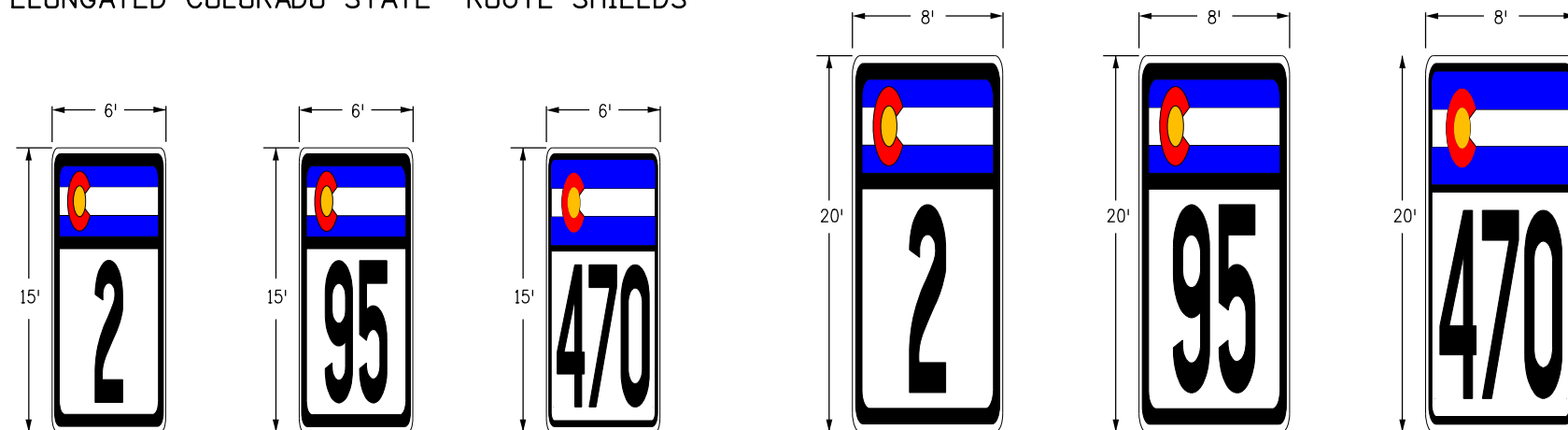
FOR THE FOLLOWING ROUTE SHIELDS & CARDINAL DIRECTIONS DIMENSIONS PAY:

<b>INTERSTATE</b>	
6' X 15' - 75 SQ.FT.	8' X 20' - 128 SQ.FT.
<b>COLORADO STATE</b>	
6' X 15' - 90 SQ.FT.	8' X 20' - 160 SQ.FT.
<b>US HIGHWAYS</b>	
7' X 16' - 112 SQ.FT.	9' X 21' - 189 SQ.FT.
<b>CARDINAL</b>	
8' X 10' - 80 SQ.FT.	9' X 10' - 90 SQ.FT.

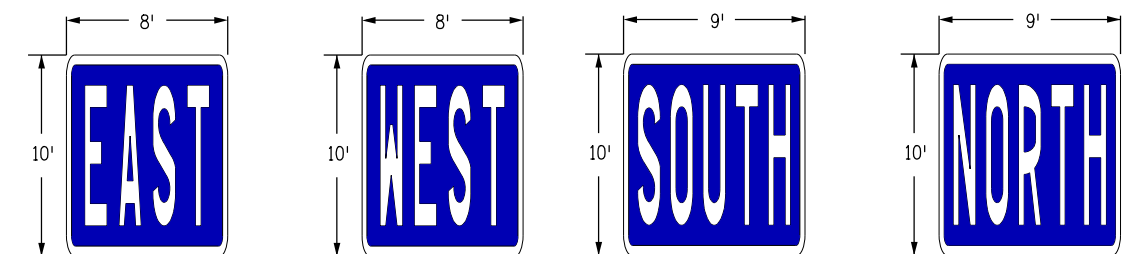
**GENERAL NOTES**

- DIMENSIONS**  
ELONGATED ROUTE SHIELDS SHALL BE AT LEAST 8'x20' WHEN USED ON HIGH SPEED ROADWAYS (55 MPH OR MORE).  
PER FIGURE 3B-25 OF THE 2009 MUTCD ELONGATED ROUTE SHIELD COLORS SHALL CONFORM WITH THE STANDARD HIGHWAY SIGNS AND MARKINGS BOOK.
- CARDINAL DIRECTIONS**  
USE CARDINAL DIRECTIONS WITH WHITE ON BLUE WHEN USING INTERSTATE ROUTE SHIELDS.  
USE CARDINAL DIRECTIONS WITH BLACK ON WHITE WHEN USING EITHER COLORADO STATE OR US HIGHWAY ROUTE SHIELDS.  
CARDINAL DIRECTION MARKING WORD SYMBOL FROM PAGE 7 OF 8 MAY BE USED INSTEAD OF PLAQUE.

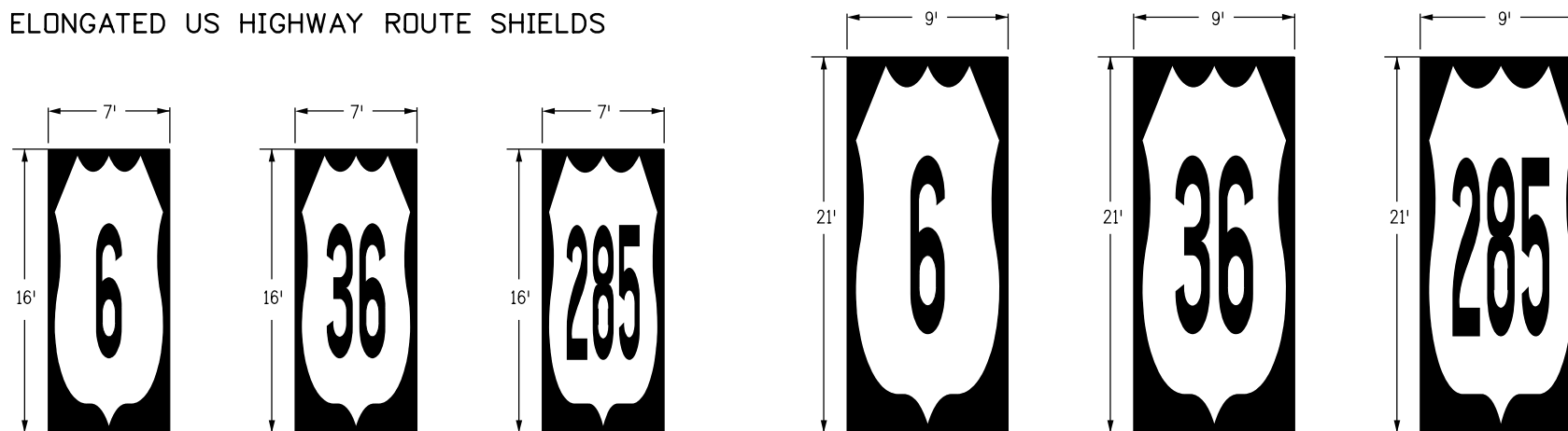
**ELONGATED COLORADO STATE ROUTE SHIELDS**



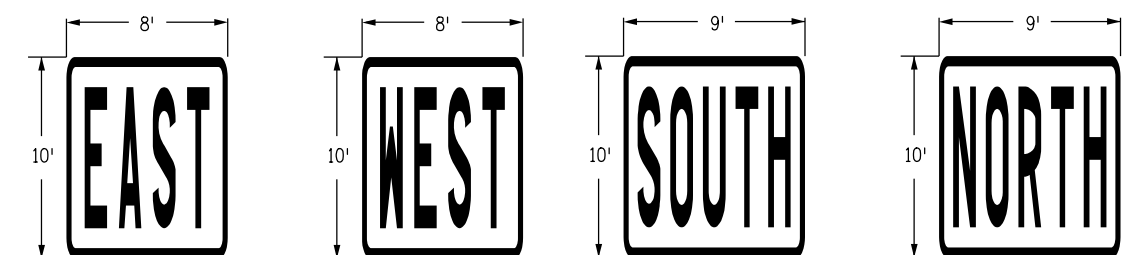
**CARDINAL DIRECTIONS (WHITE LETTERING ON BLUE BACKGROUND)**



**ELONGATED US HIGHWAY ROUTE SHIELDS**

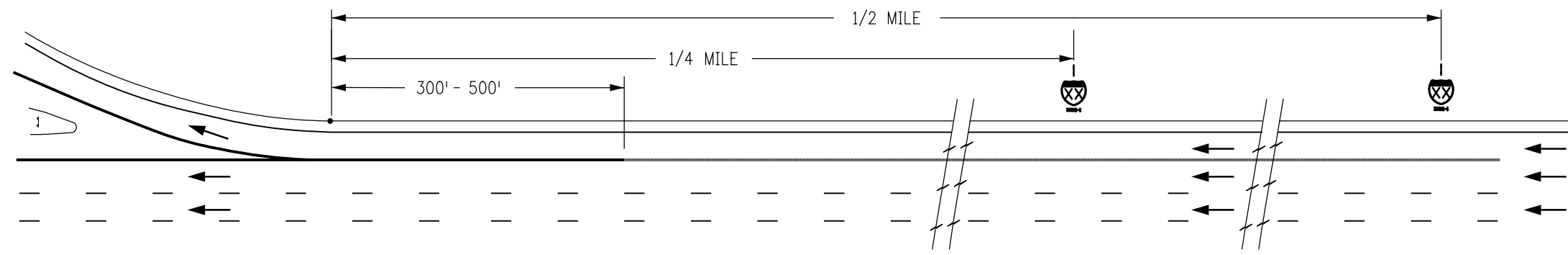


**CARDINAL DIRECTIONS (BLACK LETTERING ON WHITE BACKGROUND WITH BLACK BORDER)**

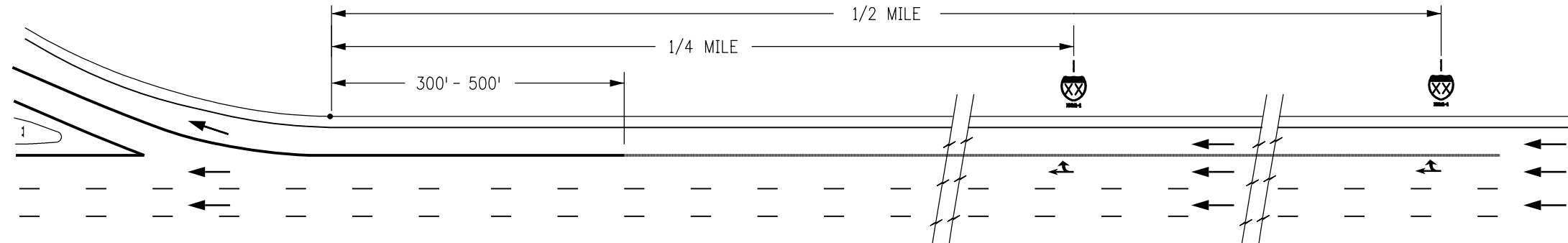


**ELONGATED ROUTE SHIELDS & CARDINAL DIRECTION MARKINGS**

<b>Computer File Information</b>		<b>Sheet Revisions</b>		<p>Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: 303-757-9543 FAX: 303-757-9219 Safety &amp; Traffic Engineering KCM</p>	<p><b>PAVEMENT MARKINGS</b></p> <p>Issued By: Safety &amp; Traffic Engineering Branch July 4, 2012</p>	<b>STANDARD PLAN NO.</b>
Creation Date: 02/08/17	Initials: MBhat	Date:	Comments:			S-627-1
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Drawing File Name: S-627-01.dgn						
CAD Ver.: MicroStation V8i	Scale: Not to Scale	Units: English				Sheet No. 7 of 8

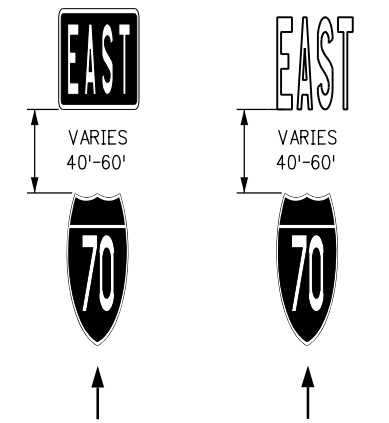


**TYPICAL SHIELD PLACEMENT**  
\*AS DIRECTED BY THE ENGINEER



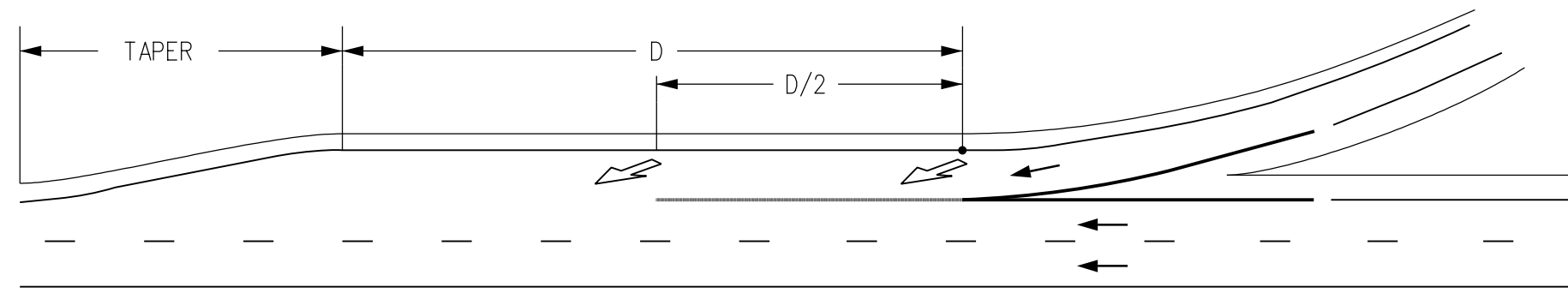
**TYPICAL SHIELD & OPTION ARROW PAVEMENT MARKING PLACEMENT**  
\*AS DIRECTED BY THE ENGINEER

**SHIELD LAYOUT DETAIL**

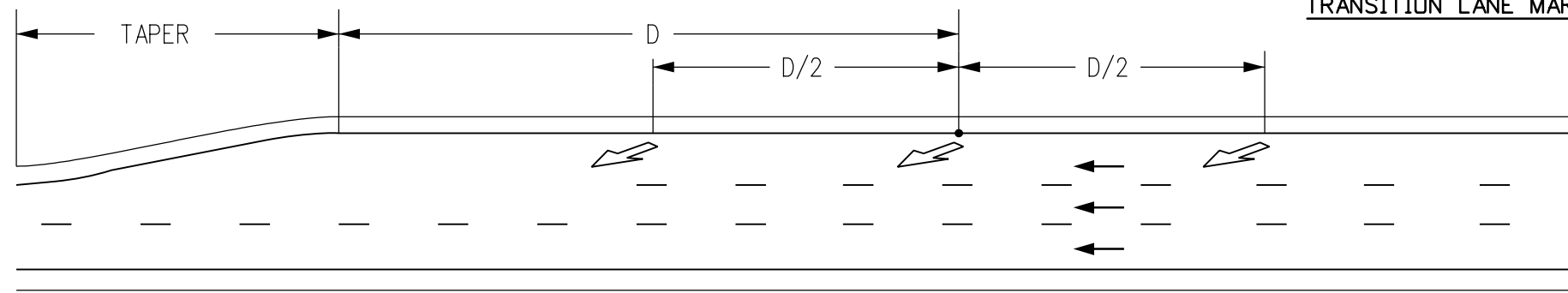


**LEGEND**

→ Direction of Travel



**TRANSITION LANE MARKINGS**



**THRU LANE DROP MARKINGS**


**LANE REDUCTION TRANSITION MARKINGS**

D = THE DISTANCE FROM THE PAVEMENT WIDTH TRANSITION SIGN (W4-2) TO THE BEGINNING OF THE TRANSITION TAPER

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**PAVEMENT MARKINGS**

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Sheet No. 8 of 8