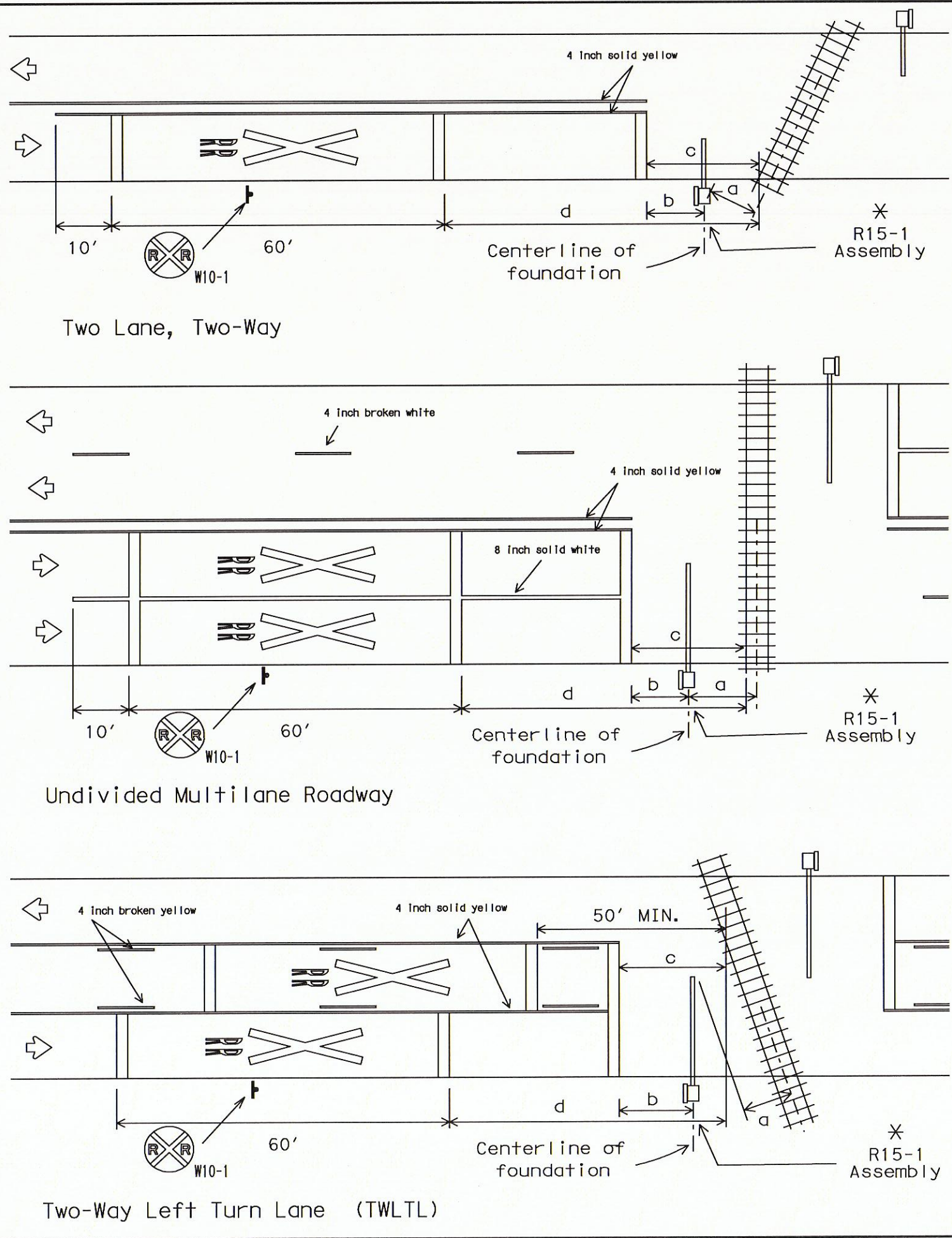


DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for damages resulting from its use.

DATE: FILE:



a =  
12 feet minimum, 15 feet usual, if active warning devices are present. Distance "a" should be measured from the centerline of \* R15-1 assembly to the centerline of nearest track.

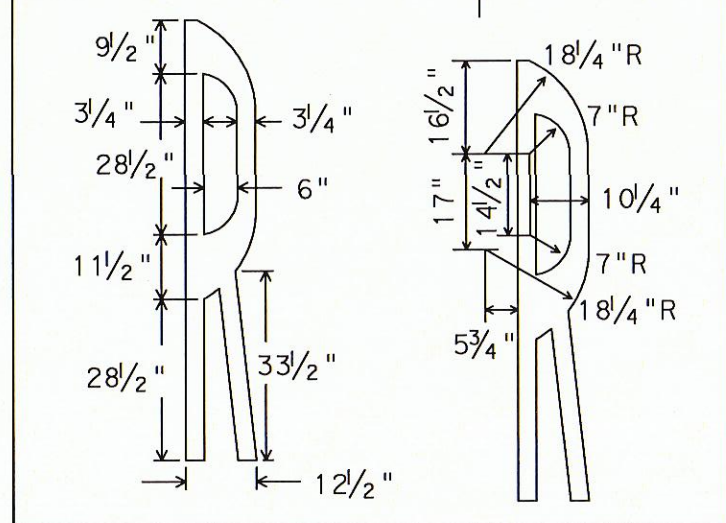
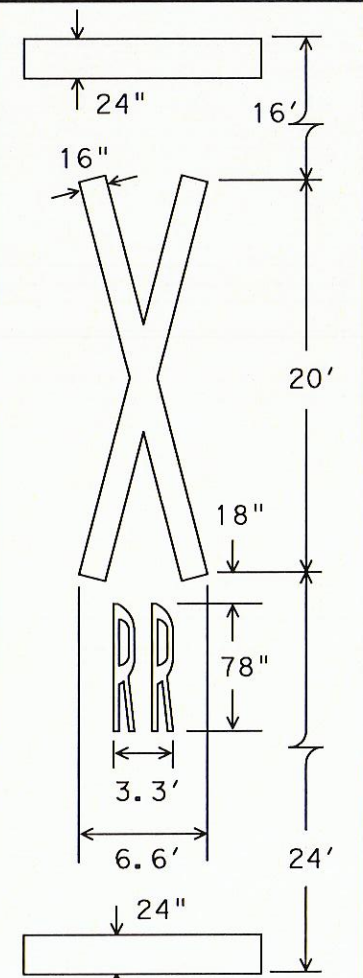
b =  
Stop lines should be approximately 8 feet in advance of the active warning devices.  
Stop line should be approximately 15 feet from near rail if only passive devices (R15-1, plus R15-2 when applicable) are present.

c =  
15 feet desirable minimum. R15-1 should be placed between stop line and rails with adequate distance provided for "a".

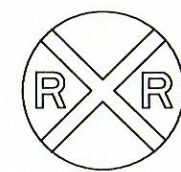
\*\* d =

Approach Speed (mph)	Desirable Placement (feet)
20	190
25	290
30	415
35	515
40	615
45	715
50	815
55	915
60	1065
65	1165
70	1215

\*\* Local conditions may require alternate placement locations.



To be placed as shown in typical details when pavement markings are installed.



W10-1 Digitally Signed 05/04/2015



Where Pavement markings are not installed:  
Placement of the Highway-Rail Grade Crossing Advance Warning sign shall be in accordance with Chapter 2A and Table 2C-4 Condition (B) of the TMUTCD. (see note#2)

ESTIMATED QUANTITIES

(for Contractor Information ONLY)

24 INCH WHITE TRANSVERSE MARKINGS AND STOP LINES

No. of Approach Lanes (Include TWLTL)	LANE WIDTH (FT)			
	11	12	13	14
1	33	36	39	42
2	66	72	78	84
3	99	108	117	126
4	132	144	156	168

4 INCH SOLID YELLOW NO PASSING LINE = "d" - "a" + 70  
For: Two Lane, Two-Way, Single Lane Approach per Direction

8 INCH SOLID WHITE LANE LINE = "d" - "a" + 70  
For: Two-Way or One-Way Traffic, 2 or More Approach Lanes in Same Direction (Do NOT Include TWLTL)

GENERAL NOTES

- The pavement markings on an approach to a railroad grade crossing shall consist of:
  - The RR Xing symbol,
  - Three transverse 24" lines, and
  - Lane lines: a solid no passing line for two-way traffic approaches, or solid lane lines for multilane approaches.
- Identical markings shall be placed in each approach lane on all paved approaches to highway-rail grade crossings where signals or automatic gates are located, and at all other highway-rail grade crossings where the posted or statutory highway speed is 40 mph or greater. Pavement markings shall not be required at highway-rail grade crossings where the posted or statutory highway speed is less than 40 mph, or in urban areas, if an engineering study indicates that other installed devices provide suitable warning and control.
- For bidding purposes, the RR Xing symbol will be measured and paid for as for each lane in place. The transverse markings and lane lines will be measured and paid for by the lineal foot.
- Centerlines shall be yellow, other markings shall be white.
- Approach lanes less than 8 foot width shall NOT have markings.
- Markings should NOT be placed where less than 110 feet of approach roadway is available for placement.
- RR Xing symbols should be placed approximately in the center of the approach lane.
- All transverse markings, including stop lines, shall be placed at right angles to the centerline and across all approach lanes.
- Existing non-standard markings shall be removed to the fullest extent possible so as not to leave a discernable marking, by any method approved by the engineer. OVERPAINTING WILL NOT BE ALLOWED.
- Additional markings and placement details may be found in the TMUTCD, Appendix H.
- The Engineer may require additional longitudinal markings if the distance between the stop lines is greater than 80 feet. Markings are not required across or between the rails unless specified elsewhere in the plans.

R15-1 Assembly  
May consist of one or more of the following:  
R15-1 Crossbuck Sign  
R15-2 Multiple Track Sign  
R15-4 Report Sign  
Mast Flashers  
Cantilevers  
Gates

Texas Department of Transportation  
Traffic Operations Division

RAILROAD CROSSING  
PAVEMENT MARKING  
TYPICAL DETAILS

RCPM-09

© TxDOT August 1990	Rev#	TXDOT	CHK#	TXDOT	DATE	TXDOT	CHK#	TXDOT
REVISIONS	DATE	SECT	JWS	HIGHWAY	POST	COUNTY	SHEET	NO.
4-92								
8-95								
2-96								
8-09								