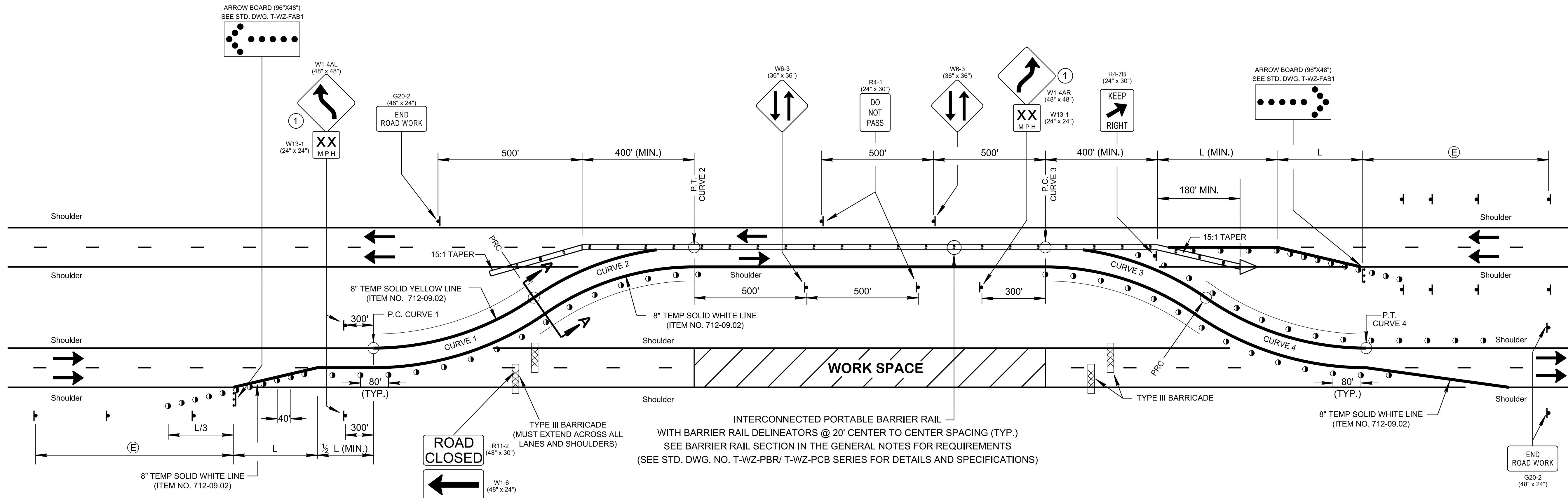
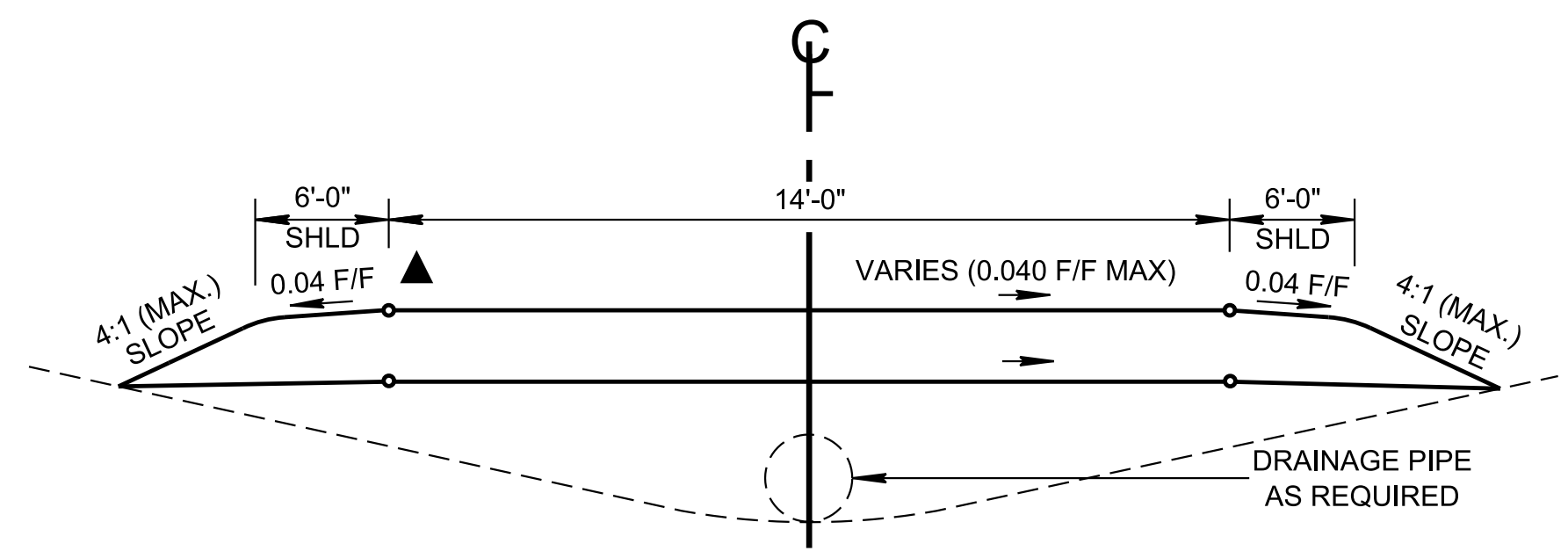


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### MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS AND BRIDGES



**SECTION A-A**  
TYPICAL SECTION OF TEMPORARY  
MEDIAN CROSS-OVER

▲ THE SLOPES OF THE SHOULDER AND THE ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 FOOT PER FOOT.

**COMPUTATION FOR DISTANCE L**

$L = W \times S$

L = TAPER LENGTH IN FEET  
W = WIDTH OF OFFSET IN FEET  
S = 10 MPH OVER EXISTING POSTED SPEED LIMIT

CHANNELIZATION DEVICE LEGEND	
	FLEXIBLE DRUMS (ITEM NO. 712-04.01, PER EACH)
	FLASHING YELLOW ARROW BOARD (SEE STD. DWG. NO. T-WZ-FAB1, FOR DETAILS AND SPECIFICATIONS) (ITEM NO. 712-08.03, PER EACH)
	SIGN SUPPORT
	DIRECTION OF TRAFFIC
	WORK SPACE
	BARRIER RAIL DELINEATOR (ITEM NO. 712-04.50, PER EACH)
	ATTENUATOR SEE STD. DWG. S-CC-1 (ITEM NO. 712-02.60, PER EACH)
	TYPE III BARRICADE SEE STD. DWG. T-S-18 (ITEM NO. 713-15.35, PER EACH)

**SPECIAL NOTE**

① IF THE TANGENT LENGTH OF THE DIVERSION IS LESS THAN 600', USE ALTERNATE SIGN W24-1L AT BEGINNING OF CROSS OVER IN PLACE OF W1-4AL AND NO SIGN IS REQUIRED AT DOWNSTREAM LOCATION.

② UNLESS REFLECTED DIFFERENT, THE LANE WIDTHS SHALL BE A MINIMUM 11 FT. WIDE WITH 2 FT. SHOULDERS. WHEN EXISTING ROADWAY HORIZONTAL ALIGNMENT IS IN A CURVE AND THE RADIUS IS LESS THAN 2500 FT. THE LANE WIDTHS FOR THE SHIFTING TAPER MUST BE AT LEAST 12 FT. WIDE WITH 2 FT. SHOULDERS.

IF THE MINIMUM DESIGN REQUIREMENTS OF THIS STANDARD CANNOT BE MET, A WORK ZONE DESIGN DEVIATION MUST BE SUBMITTED TO AND APPROVED BY THE STATE WORK ZONE ENGINEER.

**GENERAL NOTES**

(A) CROSS-OVERS SHALL BE DESIGNED FOR SPEEDS NOT LESS THAN 10 MILES PER HOUR BELOW THE POSTED SPEED. THE GEOMETRY DETAIL FOR CROSS-OVER SHOWN ON STANDARD DRAWING T-WZ-20 IS FOR A TANGENT DIVIDED HIGHWAY SECTION ONLY. THE DESIGNER SHALL PROVIDE GEOMETRIC DETAILS OF CROSS-OVER(S) ON CURVED DIVIDED HIGHWAY SECTIONS.

(B) ADVISORY SPEED PLATES ON REVERSE CURVE SIGNS (W1-4) SHALL BE 10 MILES PER HOUR LESS THAN THE DESIGN SPEED OF THE CROSS-OVER.

(C) TEMPORARY CROSS DRAINS SHALL BE PROVIDED WHERE CROSS-OVER CROSSES THE LOW POINT OF THE DEPRESSED MEDIAN. THE DESIGNER WILL PROVIDE THE LENGTH AND SIZE OF THESE CROSS DRAINS ON THE PLANS. THESE CROSS DRAINS SHALL BE PAID FOR UNDER ITEM NOS. 621-03.02 THROUGH 621-03.10.

(D) PAVEMENT SECTION OF TEMPORARY MEDIAN CROSS-OVER IS SHOWN ON TYPICAL SECTION SHEETS OF PLANS.

(E) SEE STANDARD DRAWING T-WZ-10 FOR OTHER NEEDED ADVANCE WARNING SIGNS.

(F) TWO-WAY TRAFFIC SYMBOL SIGN (W6-3) AND DO NOT PASS SIGN (R4-1) TO BE PLACED AT 1/2 MILE INTERVALS ON TWO-WAY TEMPORARY TRAFFIC SECTION.

(G) A SECOND ARROW BOARD MAY BE USED WHEN GEOMETRIC CONDITIONS LIMITS THE VISIBILITY OF A LANE CLOSURE.

(H) RAISED PAVEMENT MARKERS SHOULD NOT BE USED ON RIGHT EDGE LINE.

**BARRIER RAIL**

(I) TAPER LENGTH SHOWN FOR THE PORTABLE BARRIER RAIL IS A MINIMUM. PORTABLE BARRIER RAIL SHOULD BE EXTENDED BEYOND THE CLEAR ZONE OR BE SHIELDED WITH A CRASH CUSHION WHEN IT IS NOT FEASIBLE TO EXTEND THE PORTABLE BARRIER RAIL. SEE STANDARD DRAWING S-CZ-1 FOR CLEAR ZONE DISTANCE.

(J) REFER TO THE QUALIFIED PRODUCT LIST FOR APPROVED BARRIER RAIL DELINEATORS. DELINEATORS SHOULD NOT BE MIXED IN THE SAME LINE. BARRIER RAIL DELINEATORS SHALL BE USED ON PORTABLE BARRIER RAIL.

(K) MINIMUM TWO FEET (2') OFFSET BETWEEN TRAVEL LANE AND PORTABLE BARRIER IS REQUIRED. THE MAXIMUM POSSIBLE OFFSET BETWEEN TRAVEL LANE AND PORTABLE BARRIER MUST BE OBTAINED. A 2' MINIMUM OFFSET IS REQUIRED BETWEEN THE TRAVELLED LANE AND BRIDGE PARAPET, PORTABLE BARRIER RAIL, CONCRETE MEDIAN BARRIERS, ETC. 3' MINIMAL OFFSET IS REQUIRED BETWEEN THE WORK ZONE AND PORTABLE BARRIER RAIL IF RAIL IS UNPINNED.

- REV. 5-27-01: CHANGED PAY ITEMS IN GENERAL NOTE (C).
- REV. 7-29-03: CHANGED GENERAL NOTE (H).
- REV. 9-1-05: REMOVED TYPE "C" WARNING LIGHTS FROM FLEXIBLE DRUMS IN TAPER.
- REV. 5-12-06: REPLACED VERTICAL PANEL WITH BARRIER RAIL DELINEATORS. ADDED GENERAL NOTES (I) & (J).
- REV. 10-06-06: CHANGED ITEM NO. FOR BARRIER RAIL DELINEATOR. ADDED GENERAL NOTE (K). DELETED GENERAL NOTE (I).
- REV. 03-13-09: CHANGED GENERAL NOTE (H) AND ATTENUATOR LEGEND DESCRIPTION.
- REV. 4-2-12: ADDED NOTE (I) AND SIGN W24-1.
- REV. 03-05-17: ADDED ITEM NO. 716-05.02 AND 712-09.02.
- REV. 06-28-19: REORGANIZED GENERAL NOTES AND ADDED NOTE (K). ADDED DRAINAGE PIPE IN SECTION A-A. CORRECTED 8" TEMPORARY PAVEMENT MARKING COLOR TO YELLOW IN TWO INSTANCES. ADDED 8" TEMPORARY SOLID YELLOW LINE IN ONE INSTANCE. ADDED REFERENCED STD DWG S-CC-1 TO LEGEND FOR TEMPORARY CRASH CUSHION. ADDED ITEM NUMBER FOR FLEXIBLE DRUMS. MODIFIED GENERAL NOTE (I) FOR CLARITY. REMOVED VERTICAL PANELS AND REPLACED THEM WITH DRUMS AT THE MEDIAN CROSS-OVER. ADDED SPECIAL NOTE NO. (2). REDREW SHEET.
- REV. 05-01-20: ADDED SPECIAL NOTES. ADDED BUFFER SPACE TABLE. REMOVED 716-05.02 PAY ITEM. CHANGED CALCULATION FOR DISTANCE L.
- REV. 03-04-21: CHANGED ITEM NO. 712-02.60 FOR STD DWG S-CC-1. ADDED REFERENCED STD DWG T-WZ-PCB SERIES. REVISED GENERAL NOTE K.

FHWA  
APPROVAL NOT REQUIRED

STATE OF TENNESSEE  
STANDARD DRAWING  
DEPARTMENT OF TRANSPORTATION

**MEDIAN CROSS-OVER DETAIL ON FREEWAYS**

10-26-1998 T-WZ-19

NOT TO SCALE