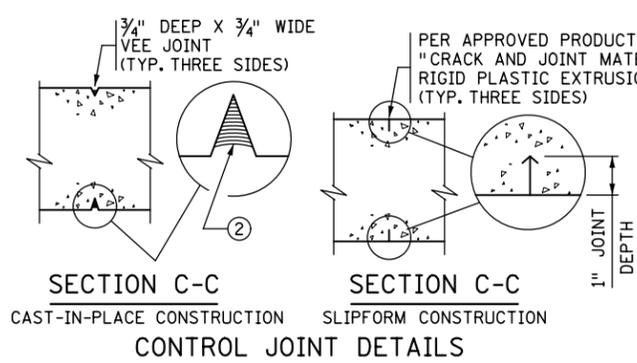


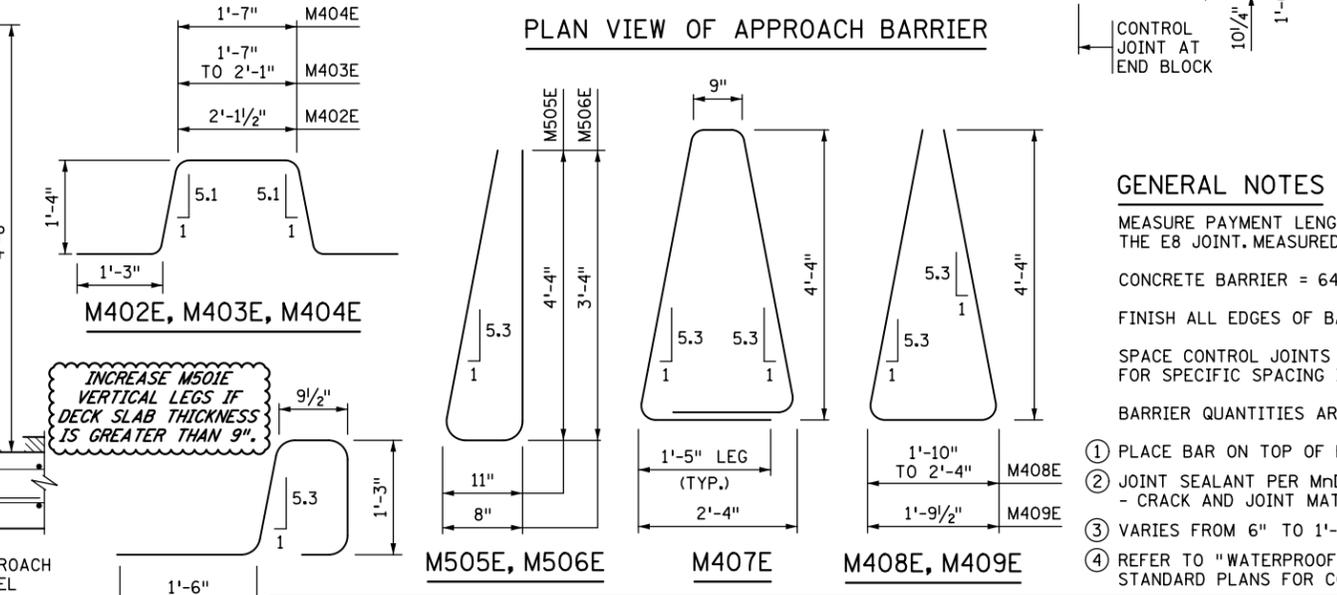
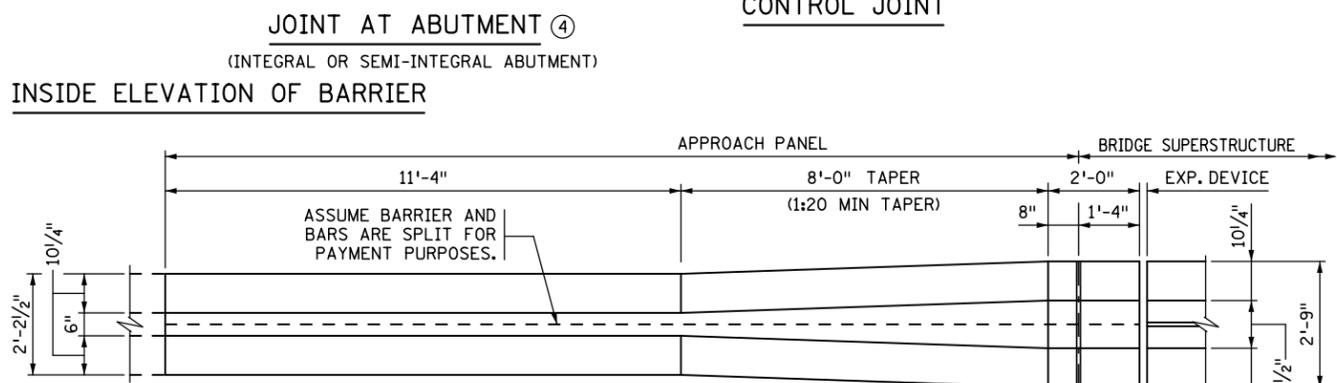
DESIGNER NOTE
 REMOVE PRIOR TO PLOTTING FINAL PLAN;
 VERIFY LENGTH OF BARRIER ON APPROACH PANEL
 WITH ROADWAY DESIGNER. REFER TO MEMO TO DESIGNERS (2016-01)
 FOR ADDITIONAL REQUIREMENTS REGARDING BARRIER PLACEMENT.

DESIGNER NOTE
 REMOVE PRIOR TO PLOTTING FINAL PLAN;
 AVOID LAYOUTS WITH HORIZONTAL GAP BETWEEN SPLIT
 MEDIAN BARRIERS OF 2" TO 6", AS BARRIERS CANNOT BE
 SLIPFORMED. IF GAP EXCEEDS 6" CONSIDER USING STANDARD
 FIGURE 5-397-142 OR .143 IN LIEU OF THIS STANDARD.

BARRIER ON EACH SIDE MEETS
 NCHRP 350 TL-4 REQUIREMENTS ON
 BRIDGE DECK AND TL-3 ON APPROACH PANEL.



FOR SLIPFORM CONSTRUCTION: IMMEDIATELY AFTER CONCRETE IS PLACED AND WHILE IT IS STILL WET, CREATE A ONE INCH STRAIGHT GROOVE USING A TROWEL. INSERT RIGID PLASTIC EXTRUSION INTO GROOVE TO A DEPTH 1/8" BELOW THE SURFACE; FINISH OVER GROOVE COMPLETELY HIDING THE EXTRUSION.



BILL OF REINFORCEMENT FOR BARRIER				
BAR	NO.	LENGTH	SHAPE	LOCATION
M501E		5'-3"		BARRIER DOWEL
M402E		7'-4"		BARRIER DOWEL
M403E	SER. OF 8	6'-10" TO 7'-2"		BARRIER DOWEL
M404E		6'-9"		BARRIER DOWEL
M505E		9'-7"		BARRIER VERTICAL
M506E		7'-4"		BARRIER VERTICAL
M407E		12'-3"		BARRIER VERTICAL
M408E	SER. OF 8	10'-6" TO 11'-0"		BARRIER VERTICAL
M409E		10'-5"		BARRIER VERTICAL
M4_E				BARRIER LONGIT.
M4_E				BARRIER LONGIT.
M4_E				BARRIER LONGIT.
M4_E				BARRIER LONGIT.

GENERAL NOTES
 MEASURE PAYMENT LENGTH BETWEEN THE OUTSIDE ENDS OF THE BARRIER FROM THE E8 JOINT. MEASURED LENGTH IS FOR ONE SIDE OF THE SPLIT MEDIAN BARRIER.
 CONCRETE BARRIER = 646 LBS./FT. (0.160 CU. YDS./FT.) PER SIDE.
 FINISH ALL EDGES OF BARRIER WITH 1/2" CHAMFER, EXCEPT WHERE OTHERWISE NOTED.
 SPACE CONTROL JOINTS AT 10 FT. MAXIMUM. REFER TO SUPERSTRUCTURE SHEET FOR SPECIFIC SPACING INFORMATION.
 BARRIER QUANTITIES ARE LISTED IN SUMMARY OF QUANTITIES FOR SUPERSTRUCTURE.

① PLACE BAR ON TOP OF BOTTOM REINFORCEMENT MAT IN DECK.
 ② JOINT SEALANT PER MnDOT APPROVED/QUALIFIED PRODUCTS LIST - CRACK AND JOINT MATERIALS - SILICONE JOINT SEALERS.
 ③ VARIES FROM 6" TO 1'-0 1/2".
 ④ REFER TO "WATERPROOF EXPANSION DEVICE" STANDARD PLANS FOR COVER PLATE DETAILS.

REVISION: MAY 10, 2017
 APPROVED: AUGUST 24, 2016
 Kevin Weston
 STATE BRIDGE ENGINEER

CONCRETE APPROACH ROADWAY.
 * DIMENSION SHOWN IS TO THE TOP OF THE WEARING COURSE AT GUTTERLINE.

CERTIFIED BY _____
 LICENSED PROFESSIONAL ENGINEER DATE _____
 NAME: _____ LIC. NO. _____

TITLE: SPLIT MEDIAN BARRIER 54"
 (TYPE S, TL-4)
 PARAPET ABUTMENT
 (WITH 2" CONCRETE WEARING COURSE)

DES: _____ DR: _____
 CHK: _____ CHK: _____
 SHEET NO. OF SHEETS
 APPROVED: _____ BRIDGE NO. _____

FIG. 5-397.146(D)