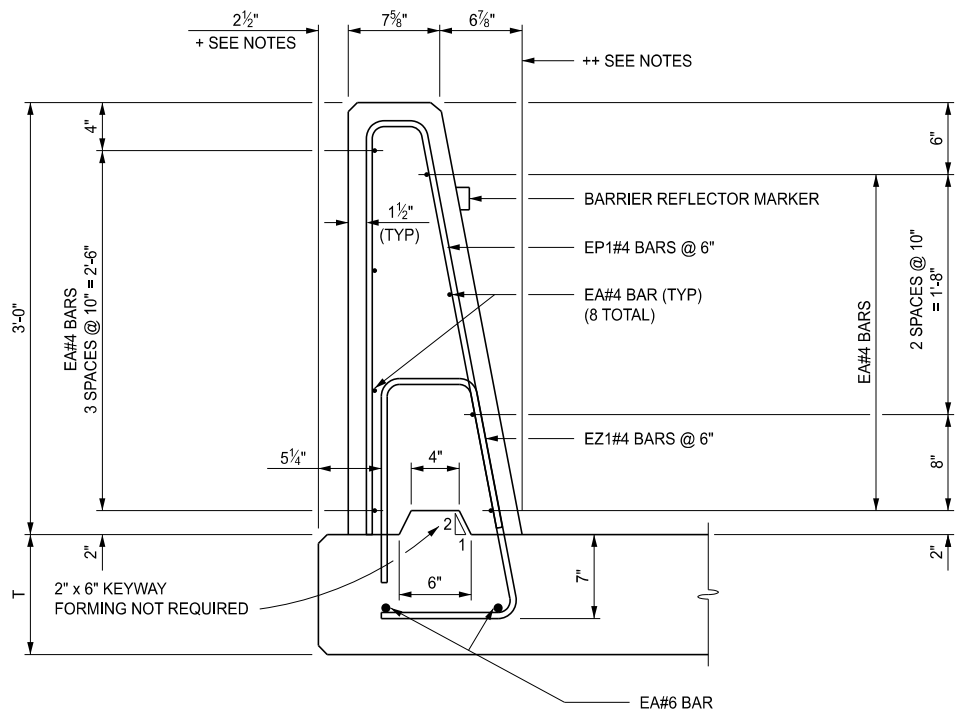


BRIDGE BARRIER RAILING, TYPE 7 OUTSIDE ELEVATION



SECTION A-A  
NO AESTHETIC TREATMENT

APPROVED BY: \_\_\_\_\_  
DIRECTOR, BUREAU OF BRIDGES AND STRUCTURES

APPROVED BY: \_\_\_\_\_  
DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: \_\_\_\_\_  
DIRECTOR, BUREAU OF DEVELOPMENT



DEPARTMENT DIRECTOR  
BRADLEY C. WIEFERICH, PE

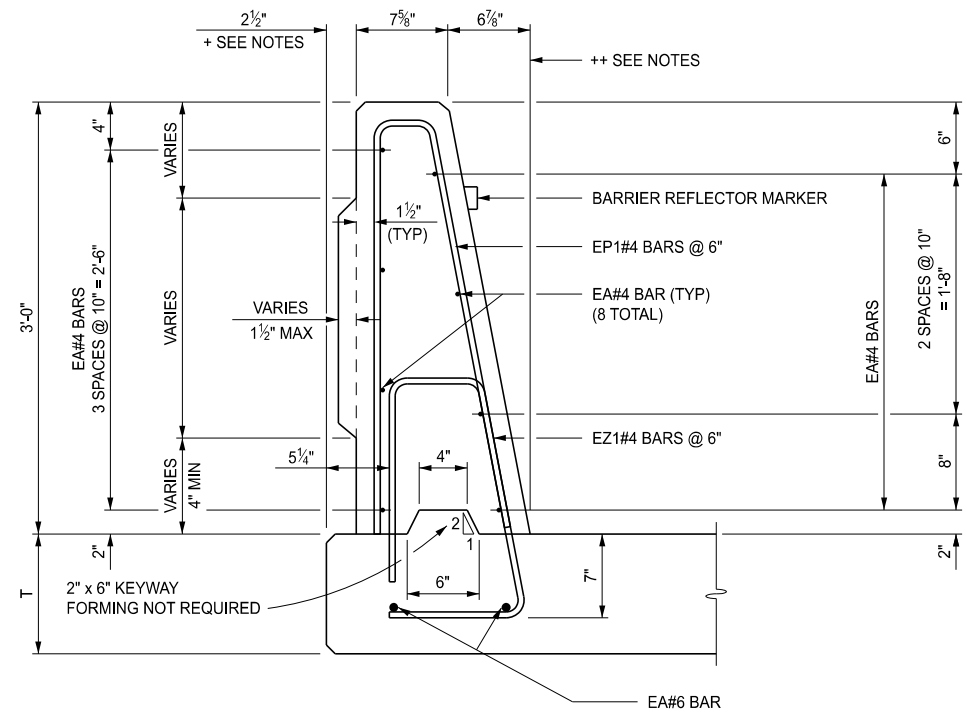
STANDARD PLAN FOR  
BRIDGE BARRIER RAILING, TYPE 7

(SPECIAL DETAIL)  
FHWA APPROVAL

09/12/2024  
PLAN DATE

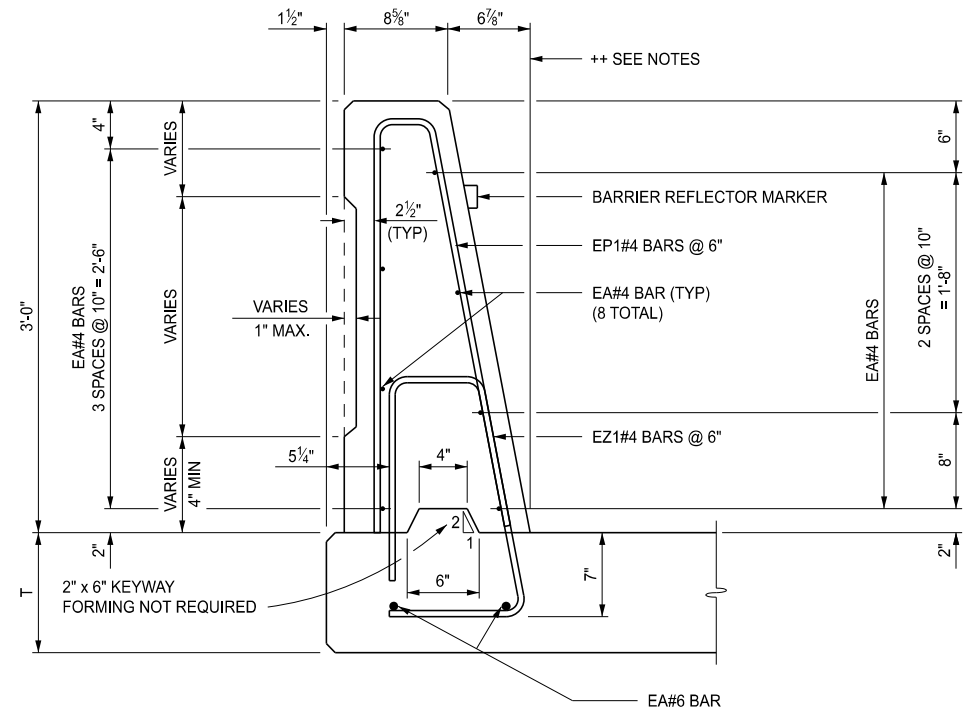
B-28-A

SHEET  
1 OF 7



SECTION A-A  
BRIDGE BARRIER RAILING, AESTHETIC, TYPE 7, DET 1

( THE TYPE AND LIMITS OF THE AESTHETIC TREATMENT,  
IF APPLICABLE, ARE AS DETAILED ON THE PLANS. )



SECTION A-A  
BRIDGE BARRIER RAILING, AESTHETIC, TYPE 7, DET 2

( THE TYPE AND LIMITS OF THE AESTHETIC TREATMENT,  
IF APPLICABLE, ARE AS DETAILED ON THE PLANS. )



DEPARTMENT DIRECTOR  
BRADLEY C. WIEFERICH, PE

STANDARD PLAN FOR  
BRIDGE BARRIER RAILING, TYPE 7

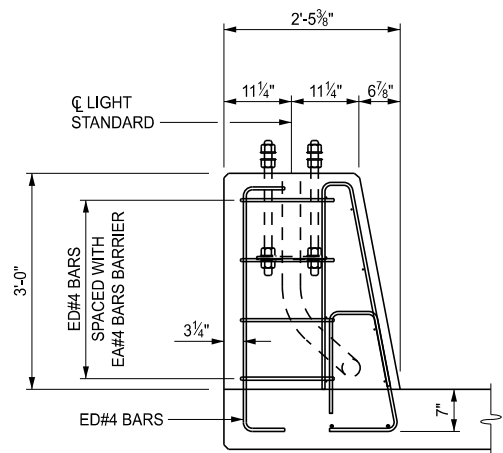
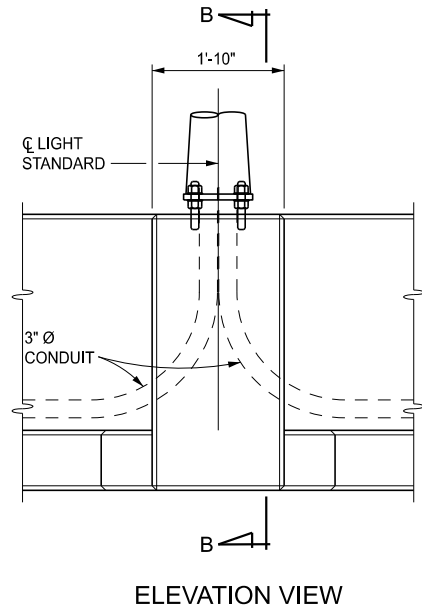
(SPECIAL DETAIL)  
FHWA APPROVAL

09/12/2024  
PLAN DATE

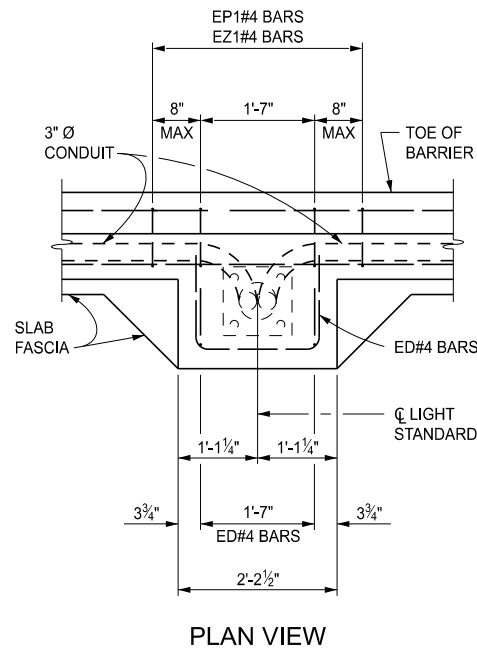
B-28-A


SHEET  
2 OF 7

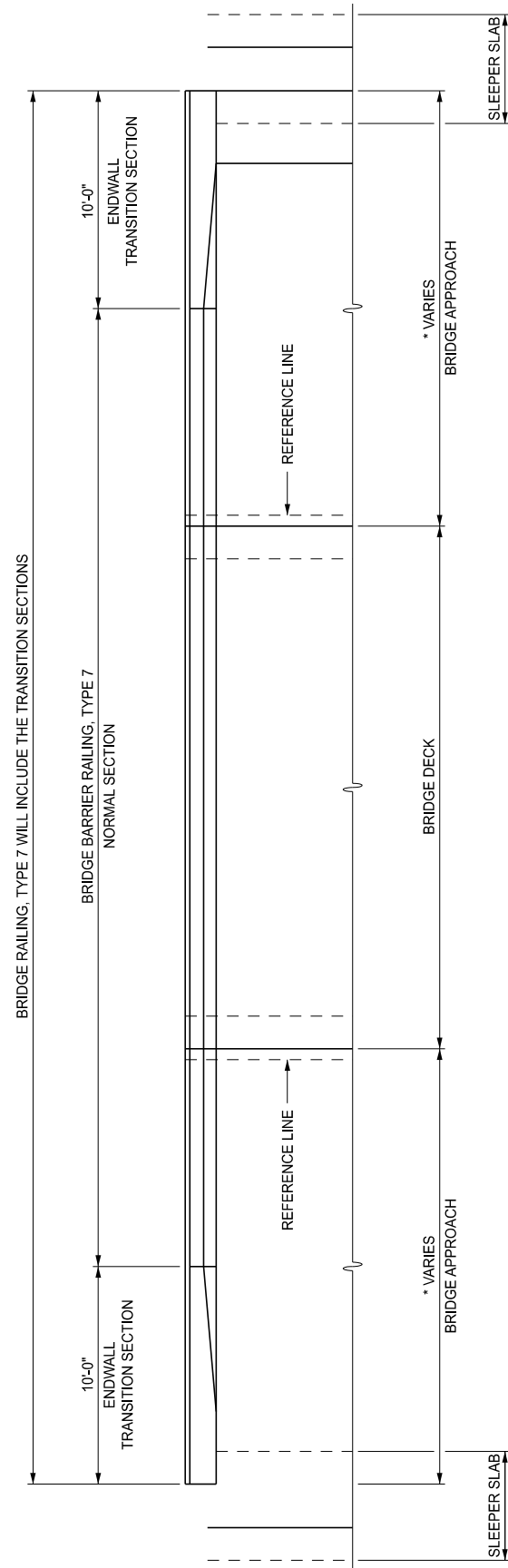
SECT



NO AESTHETIC TREATMENT ON LIGHT STANDARD 2'-2½" x 1'-2⅞" PROTRUSION




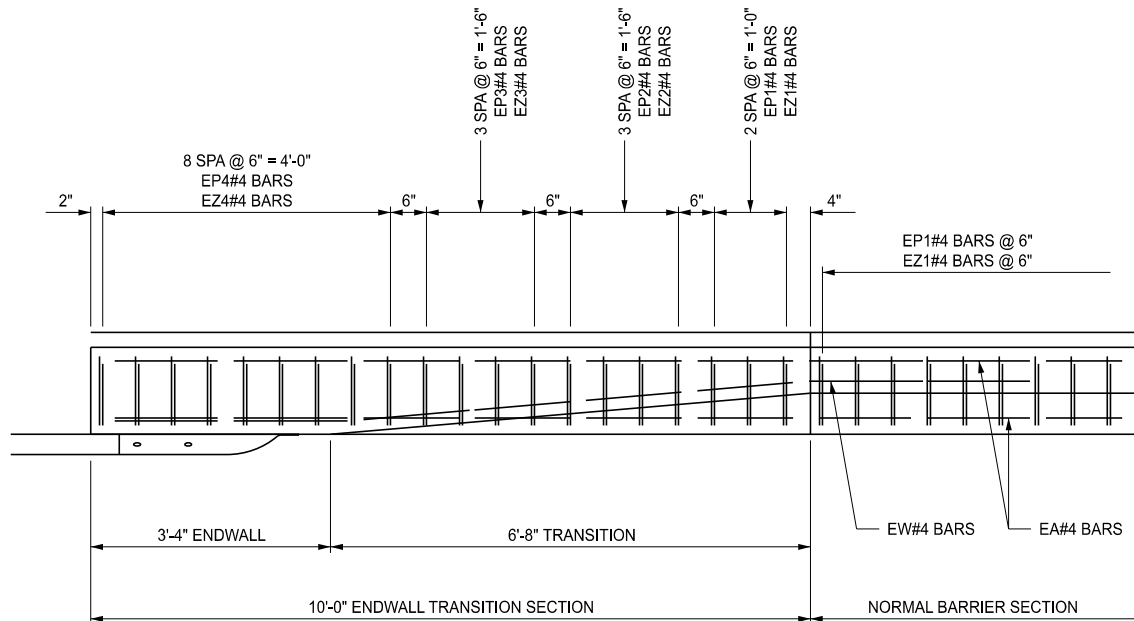
 Michigan Department of Transportation	STANDARD PLAN FOR BRIDGE BARRIER RAILING, TYPE 7			
	(SPECIAL DETAIL)	09/12/2024	B-28-A	SHEET 3 OF 7
	FHWA APPROVAL	PLAN DATE		



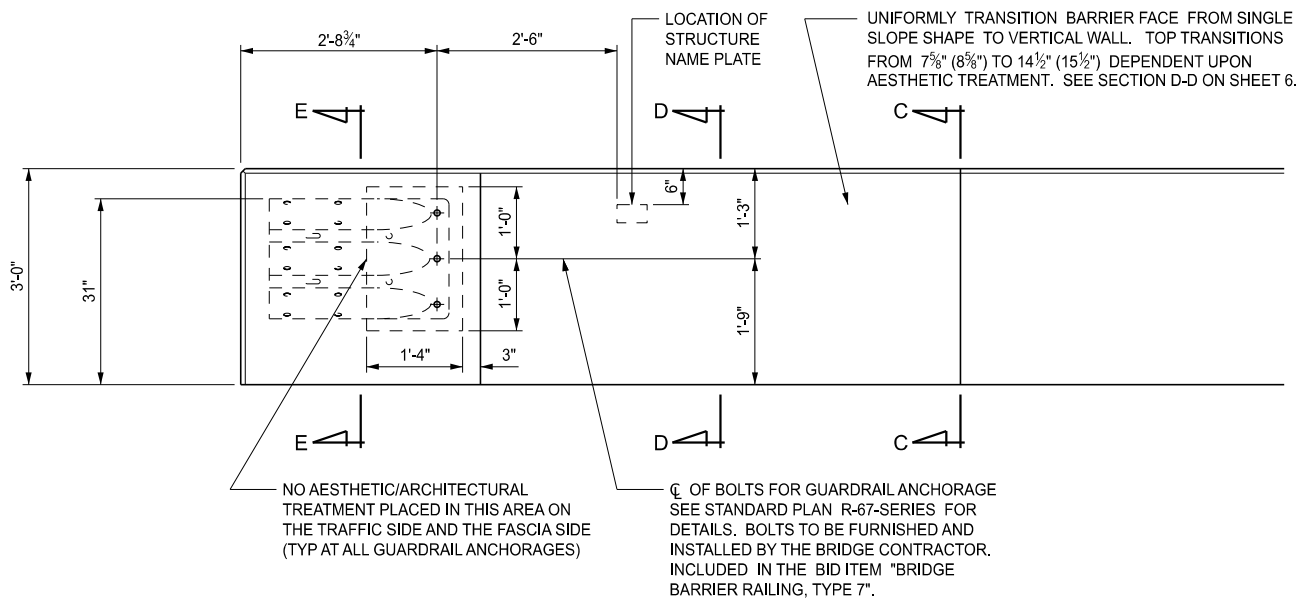
BRIDGE BARRIER RAILING, TYPE 7  
PLAN VIEW

\* DEPENDANT UPON BRIDGE APPROACH LENGTH, THE TRANSITION SECTION CAN BE PARTLY ON BRIDGE DECK OR IF NO APPROACH SLAB IS PRESENT, ENTIRELY ON THE BRIDGE DECK.

 Michigan Department of Transportation	STANDARD PLAN FOR BRIDGE BARRIER RAILING, TYPE 7			
	(SPECIAL DETAIL)	09/12/2024	B-28-A	SHEET 4 OF 7
	FHWA APPROVAL	PLAN DATE		



PLAN VIEW



ELEVATION VIEW



DEPARTMENT DIRECTOR  
BRADLEY C. WIEFERICH, PE

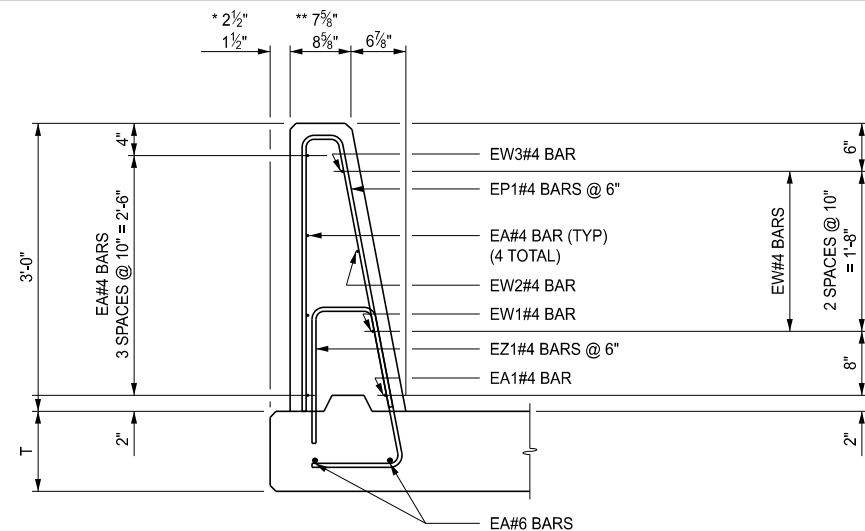
STANDARD PLAN FOR  
BRIDGE BARRIER RAILING, TYPE 7

(SPECIAL DETAIL)  
FHWA APPROVAL

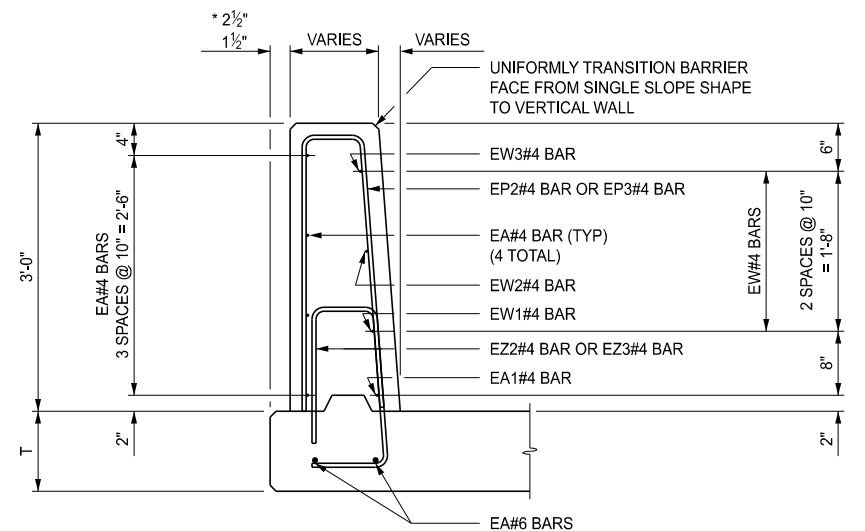
09/12/2024  
PLAN DATE

B-28-A

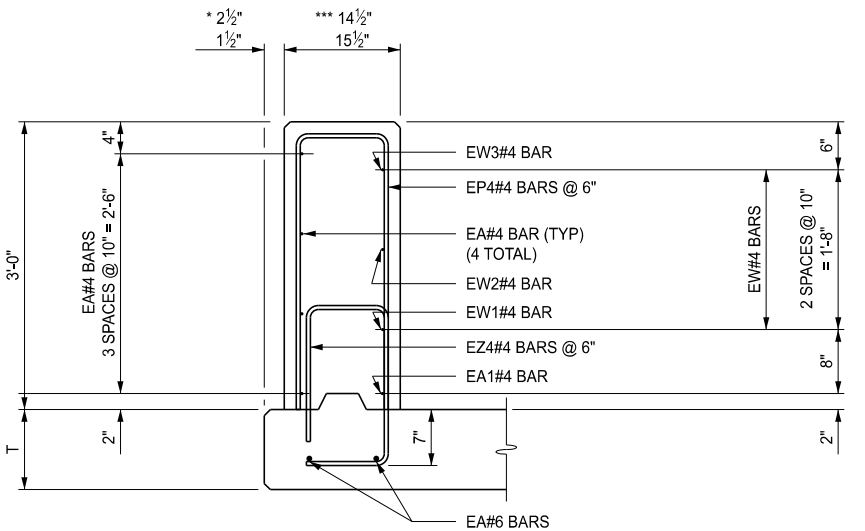
SHEET  
5 OF 7



SECTION C-C



SECTION D-D



SECTION E-E

\* 2 1/2" BRIDGE BARRIER RAILING, TYPE 7 (+ SEE NOTES)  
2 1/2" BRIDGE BARRIER RAILING, AESTHETIC, TYPE 7, DET 1 (+ SEE NOTES)  
1 1/2" BRIDGE BARRIER RAILING, AESTHETIC, TYPE 7, DET 2

\*\* 7 5/8" BRIDGE BARRIER RAILING, TYPE 7 (+ SEE NOTES)  
7 5/8" BRIDGE BARRIER RAILING, AESTHETIC, TYPE 7, DET 1 (+ SEE NOTES)  
8 5/8" BRIDGE BARRIER RAILING, AESTHETIC, TYPE 7, DET 2

\*\*\* 14 1/2" BRIDGE BARRIER RAILING, TYPE 7 (+ SEE NOTES)  
14 1/2" BRIDGE BARRIER RAILING, AESTHETIC, TYPE 7, DET 1 (+ SEE NOTES)  
15 1/2" BRIDGE BARRIER RAILING, AESTHETIC, TYPE 7, DET 2



DEPARTMENT DIRECTOR  
BRADLEY C. WIEFERICH, PE

STANDARD PLAN FOR  
BRIDGE BARRIER RAILING, TYPE 7

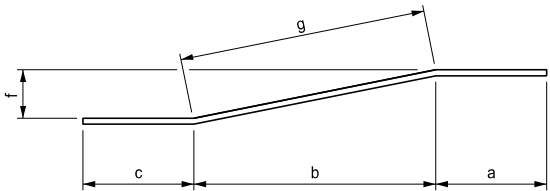
(SPECIAL DETAIL)  
FHWA APPROVAL

09/12/2024  
PLAN DATE

B-28-A

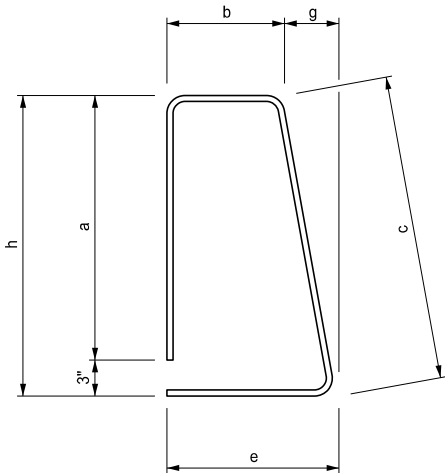
SHEET  
6 OF 7

SECT



ENDWALL TRANSITION SECTION BARS							
	# of bars	c	b	a	g	j	
EA1	1	—	—	11'-11"	—	--	EA041111
EW1	1	3'-0"	5'-6"	3'-5"	5'-6"	1 <sup>7</sup> / <sub>8</sub> "	EW041111
EW2	1	3'-0"	5'-6"	3'-5 <sup>7</sup> / <sub>8</sub> "	5'-6 <sup>1</sup> / <sub>8</sub> "	3 <sup>7</sup> / <sub>8</sub> "	EW041200
EW3	1	3'-0"	5'-6"	3'-6 <sup>3</sup> / <sub>4</sub> "	5'-6 <sup>1</sup> / <sub>4</sub> "	5 <sup>3</sup> / <sub>4</sub> "	EW041201

L = c + a + g

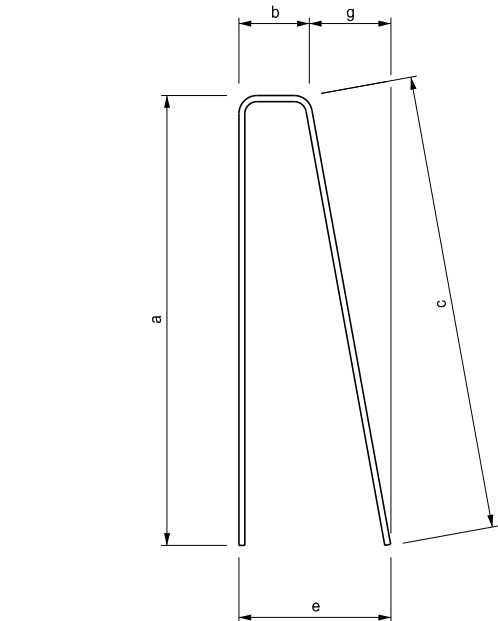


BARRIER SECTION BARS									
	# of bars	a	b	c	e	g	h	h - a	
EZ1	--	1'-5"	7 <sup>3</sup> / <sub>8</sub> "	1'-8 <sup>3</sup> / <sub>8</sub> "	11 <sup>1</sup> / <sub>4</sub> "	3 <sup>5</sup> / <sub>8</sub> "	1'-8"	3"	EZ040408

L = a + b + c + e

ENDWALL TRANSITION SECTION BARS									
	# of bars	a	b	c	e	g	h	h - a	
EZ1	3	1'-5"	7 <sup>3</sup> / <sub>8</sub> "	1'-8 <sup>3</sup> / <sub>8</sub> "	11 <sup>1</sup> / <sub>4</sub> "	3 <sup>5</sup> / <sub>8</sub> "	1'-8"	3"	EZ040408
EZ2	4	1'-5"	7 <sup>7</sup> / <sub>8</sub> "	1'-8 <sup>1</sup> / <sub>4</sub> "	10 <sup>7</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>8</sub> "	1'-8"	3"	EZ040408
EZ3	4	1'-5"	8 <sup>3</sup> / <sub>4</sub> "	1'-8"	10 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1'-8"	3"	EZ040408
EZ4	9	1'-5"	10 <sup>1</sup> / <sub>2</sub> "	1'-8"	10 <sup>1</sup> / <sub>2</sub> "	—	1'-8"	3"	EZ040410

L = a + b + c + e



BARRIER SECTION BARS							
	# of bars	a	b	c	e	g	
EP1	--	2'-10 <sup>1</sup> / <sub>4</sub> "	4 <sup>3</sup> / <sub>4</sub> "	2'-11"	11"	6 <sup>1</sup> / <sub>4</sub> "	EP040602

L = a + b + c

ENDWALL TRANSITION SECTION BARS							
	# of bars	a	b	c	e	g	
EP1	3	2'-10 <sup>1</sup> / <sub>4</sub> "	4 <sup>3</sup> / <sub>4</sub> "	2'-11"	11"	6 <sup>1</sup> / <sub>4</sub> "	EP040602
EP2	4	2'-9 <sup>7</sup> / <sub>8</sub> "	6 <sup>1</sup> / <sub>4</sub> "	2'-10 <sup>7</sup> / <sub>8</sub> "	11"	4 <sup>3</sup> / <sub>4</sub> "	EP040603
EP3	4	2'-10 <sup>1</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>4</sub> "	2'-10 <sup>5</sup> / <sub>8</sub> "	11"	2 <sup>3</sup> / <sub>4</sub> "	EP040605
EP4	9	2'-10 <sup>1</sup> / <sub>2</sub> "	11"	2'-10 <sup>1</sup> / <sub>2</sub> "	11"	—	EP040608

L = a + b + c

NOTES:

DETAILS SHOWN ARE IN ACCORDANCE WITH CURRENT AASHTO SPECIFICATIONS.


FOR LIGHT STANDARD ANCHOR BOLT ASSEMBLY DETAILS, SEE STANDARD PLAN B-103-SERIES.

ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

+ BACK OF BARRIER TO SLAB FASCIA MAY BE DECREASED TO 1½" (FROM 2½") AND TOE OF BARRIER SHIFTED ACCORDINGLY TO ACCOMMODATE THE NEED FOR INCREASED OR MAINTAINING SHOULDER WIDTHS. DISTANCE TO BE DETAILED ON THE PLANS.

++ BRIDGE BARRIER ORIENTATION :

PERPENDICULAR TO PLANE OF SLAB ON NORMAL CROWN SECTION AND HIGH SIDE OF SUPERELEVATION SECTION.  
VERTICAL ON LOW SIDE OF SUPERELEVATED SECTION.



Michigan Department of Transportation

DEPARTMENT DIRECTOR  
BRADLEY C. WIEFERICH, PE

STANDARD PLAN FOR  
BRIDGE BARRIER RAILING, TYPE 7

(SPECIAL DETAIL)

FHWA APPROVAL

09/12/2024

PLAN DATE

B-28-A

SHEET

7 OF 7