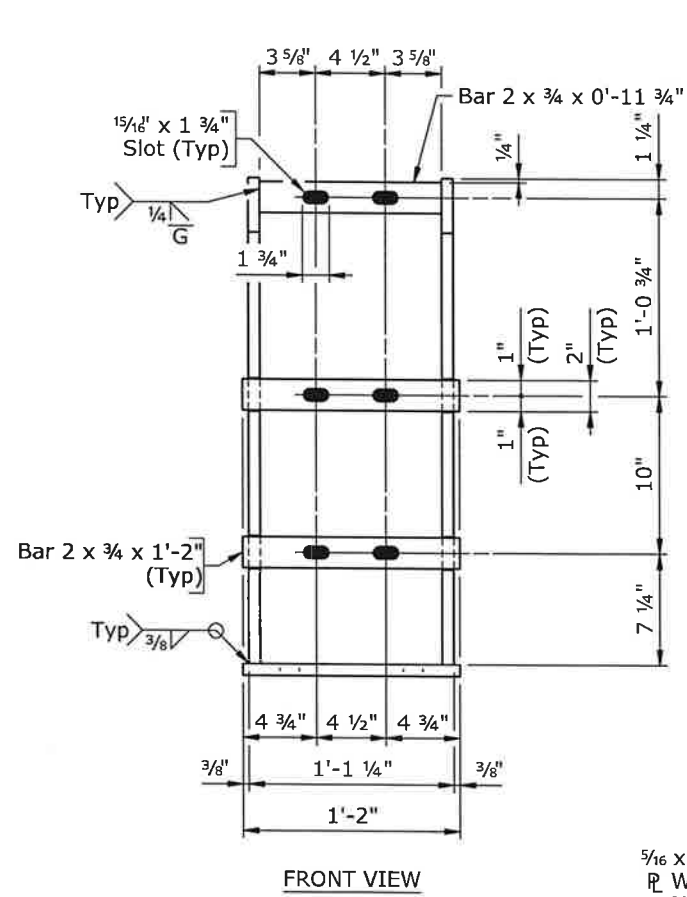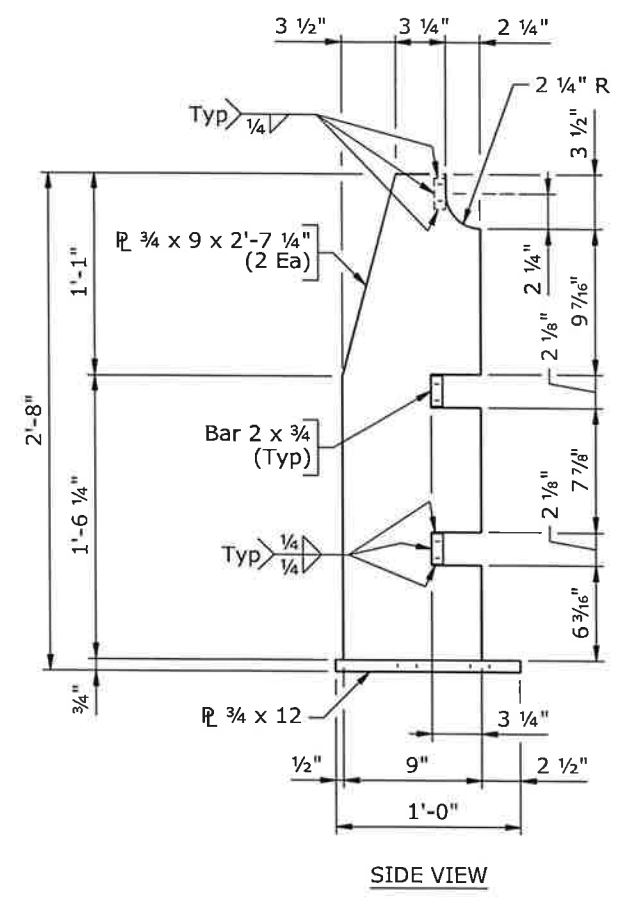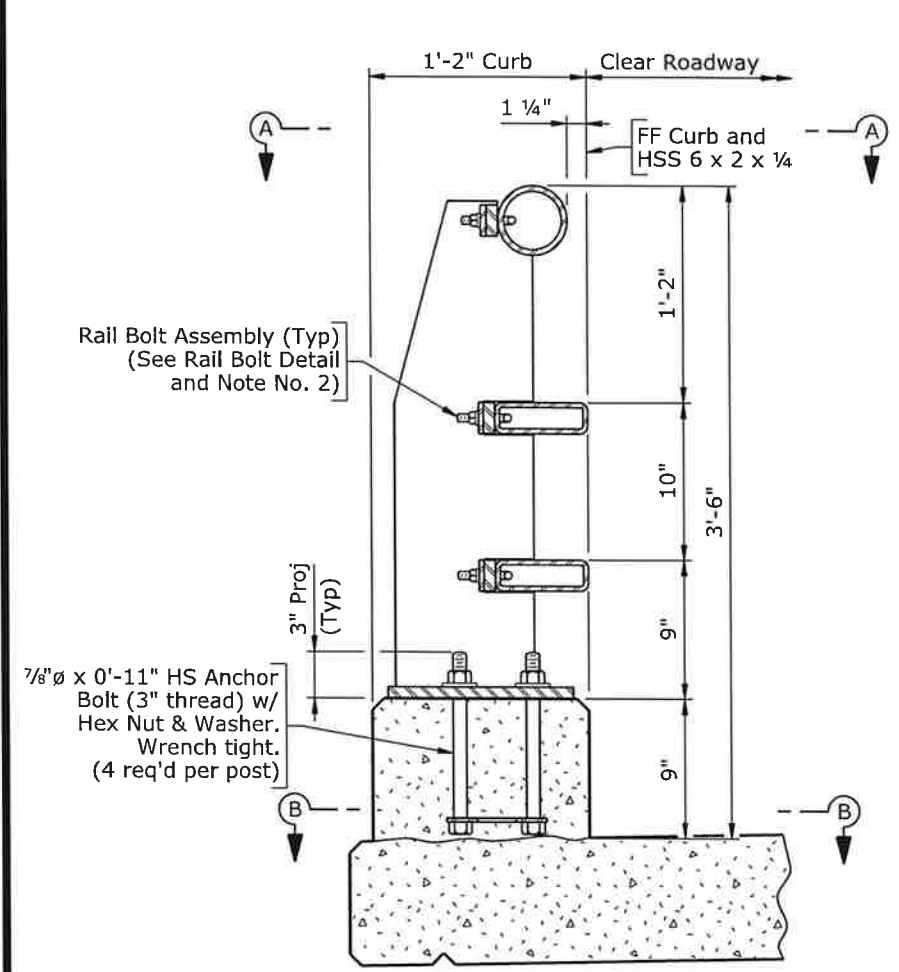PLAN
(X posts req'd on bridge)
(X posts req'd on approach slabs)

Note: Ensure a splice is located in the railing panel which passes
over rear face abutment as indicated on the plan.

	WYOMING DEPARTMENT OF TRANSPORTATION	
	BRIDGE PROGRAM	
REVISIONS	BRIDGE RAILING DETAILS	
	TL4BRGRAIL_MASH_br1.dgn	

REVIEW	DESIGN	✓	Design Section X	
	DETAIL	X	✓	X	
APPROVAL	QTY'S	X	✓	X	Drwg No. X	Sheet X of X

Standard Sheet Dated 7-21-23

ASSEMBLY DETAIL
(Shown near ℄ Post)
(Reinforcing steel not shown)

1'-2" Curb   Clear Roadway

1 ¼"

FF Curb and
HSS 6 x 2 x ¼

Rail Bolt Assembly (Typ)
(See Rail Bolt Detail
and Note No. 2)

1'-2"

10"

9"

9"

3'-6"

3" Proj
(Typ)

⅞"ø x 0'-11" HS Anchor
Bolt (3" thread) w/
Hex Nut & Washer.
Wrench tight.
(4 req'd per post)

POST DETAILS
(See View A-A for anchor bolt hole spacing)

SIDE VIEW

3 ½"   3 ¼"   2 ¼"

2 ¼" R

Typ   ¼

3 ½"

3"

2 ¼"

9 7/16"

ℙ ¾ x 9 x 2'-7 ¼"
(2 Ea)

1'-1"

2'-8"

1'-6 ¼"

Bar 2 x ¾
(Typ)

2 ¼"

7/8"

Typ   ¼
         ¼

2 ¼"

6 3/16"

¾"

ℙ ¾ x 12

½"   9"   2 ½"

1'-0"

3 ¼"

FRONT VIEW

3 ⅝"   4 ½"   3 ⅝"

Bar 2 x ¾ x 0'-11 ¾"

15/16" x 1 ¾"
Slot (Typ)

¼"

1 ¼"

Typ   ¼
         G

1 ¾"

1"
(Typ)

2"
(Typ)

1'-0 ¾"

1"
(Typ)

10"

Bar 2 x ¾ x 1'-2"
(Typ)

Typ   ⅜

7 ¼"

4 ¾"   4 ½"   4 ¾"

⅜"   1'-1 ¼"   ⅜"

1'-2"

RAIL BOLT DETAIL

5/16 x 2 x 0'-2"
ℙ Washer w/
9/16"ø Holes
(Centered)
(Typ)

Bar ½ ø x 0'-10"

1" R (Typ)

2"

3 ½"

Thread
(Typ)

Lock Washer
(Typ)

Hex Nut (Typ)

1"   4 ½"   1"

6 ½"

VIEW A-A
(Anchor bolts, rails, and rail bolts not shown)

1'-2" Curb   Clear Roadway

1"   1'-0"   1"

4 ⅝"   4 ¾"   2 ⅝"

℄ Post

3"
4"
4"
3"

1'-2"

ℙ ¾ x 12 x 1'-2"

FF Curb

1 ⅛"ø Hole (Typ)

5 ⅝"   4 ¾"   3 ⅝"

SECTION B-B

6 ½"

2"   2 ½"   2"

1 ½"

ℙ 5/16 x 11 x 0'-6 ½"

3"
5"
3"

11"

8"

15/16"ø Hole (Typ)

1 ½"

⅞"   4 ¾"   ⅞"

Note: 1) Anchor bolts may be tack welded to lower anchorage
           (Shop or field).
       2) At post locations, drill two 1 1/16"ø holes in each rail to
           receive rail bolts (Shop or field). See Post Details for
           hole spacing.
       3) Paint surfaces of the railing components that have been
           cut, drilled, or otherwise damaged with two coats of
           zinc-rich paint conforming to ASTM A 780.
       4) After installing rails, paint all exposed bolt threads with
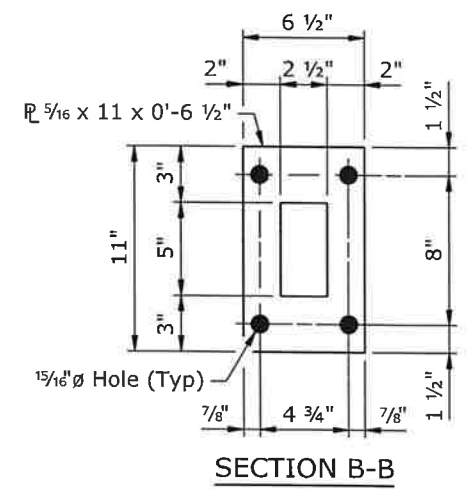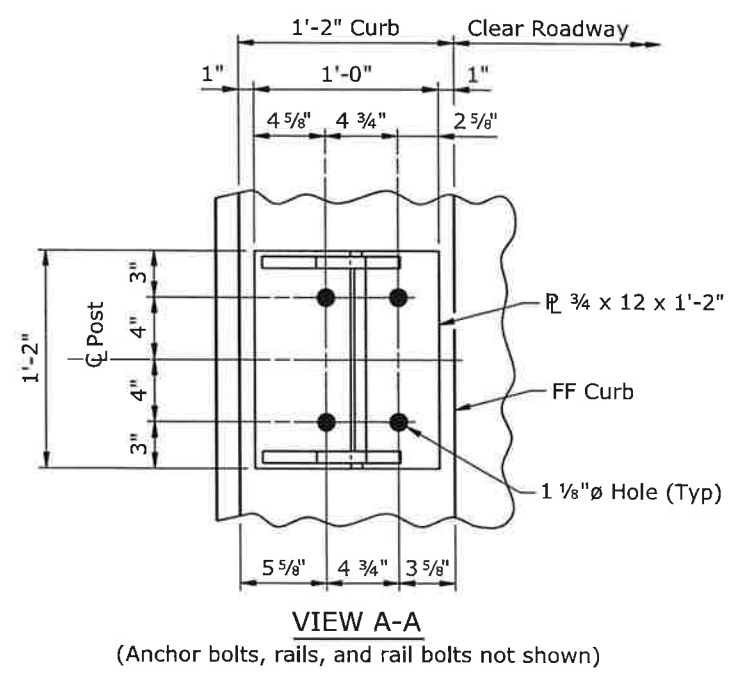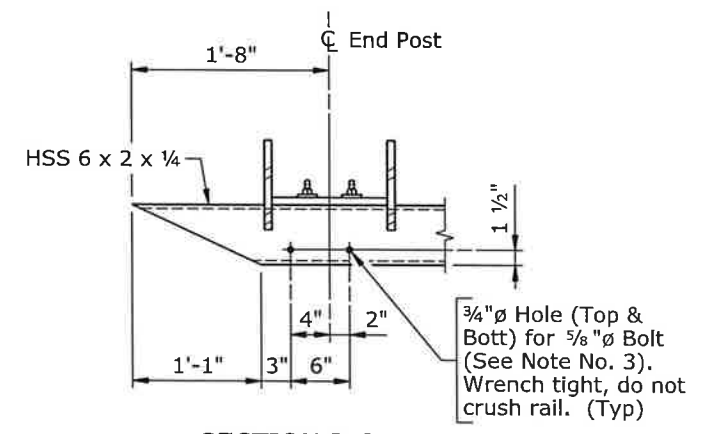   two coats of zinc-rich paint conforming to ASTM A 780.
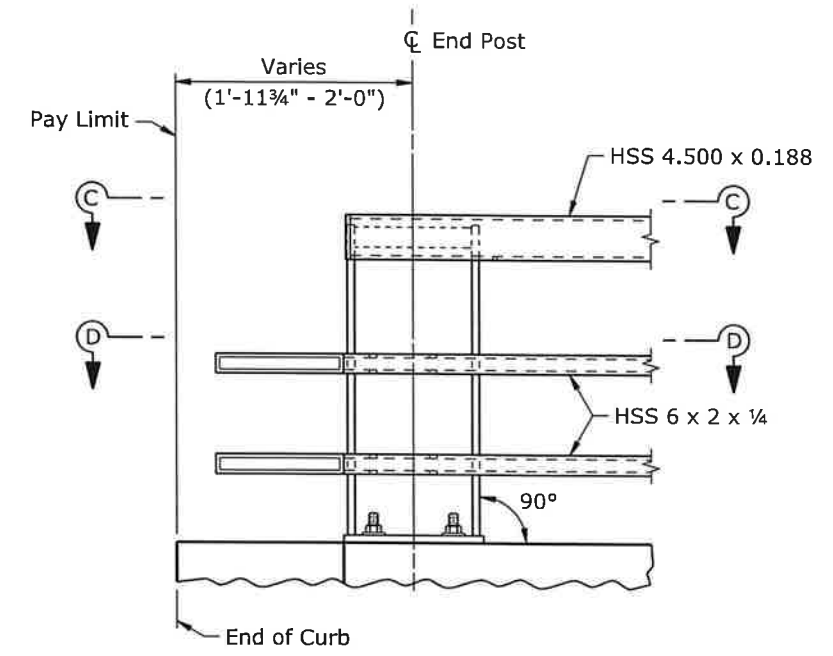
WYOMING DEPARTMENT OF TRANSPORTATION
BRIDGE PROGRAM

REVISIONS

BRIDGE RAILING DETAILS

TL4BRGRAIL_MASH_br2.dgn

REVIEW

APPROVAL

DESIGN

DETAIL

QTY'S

Design Section   X

Drwg No. X   Sheet   X   of   X

Standard Sheet Dated 7-21-23

X_br2.dgn

VIEW C-C
(Curb and post base plate not shown)

₵ End Post

HSS 4.500 x 0.188

R 3/16 x 4 1/2"ø

3/8 "ø Drain Hole
in bottom of
HSS 4.500 x 0.188

G

6 3/4"

1'-3"

SECTION D-D
(Typical at each HSS 6 x 2 x 1/4)
(Curb and post base plate not shown)

1'-8"

₵ End Post

HSS 6 x 2 x 1/4

1 1/2"

4"   2"

1'-1"   3"   6"

3/4"ø Hole (Top &
Bott) for 5/8"ø Bolt
(See Note No. 3).
Wrench tight, do not
crush rail. (Typ)

ELEVATION AT TERMINAL

Pay Limit

Varies
(1'-11¾" - 2'-0")

₵ End Post

HSS 4.500 x 0.188

C   C

D   D

HSS 6 x 2 x 1/4

90°

End of Curb

SPLICE DETAIL

₵ Post

2'-7"   2"

HSS 4.500 x 0.188

Round Sleeve

HSS 6 x 2 x 1/4

Rectangle Sleeve

90°

ROUND SLEEVE DETAILS

2'-4"

1'-2"   1'-2"

₵ 3/8 ø Pin

3/8 ø x 3/4" Pin
(Drive fit)

1/4"

4"

HSS 4.000 x 0.250

HSS 4.000 x 0.250

SLEEVE   END VIEW
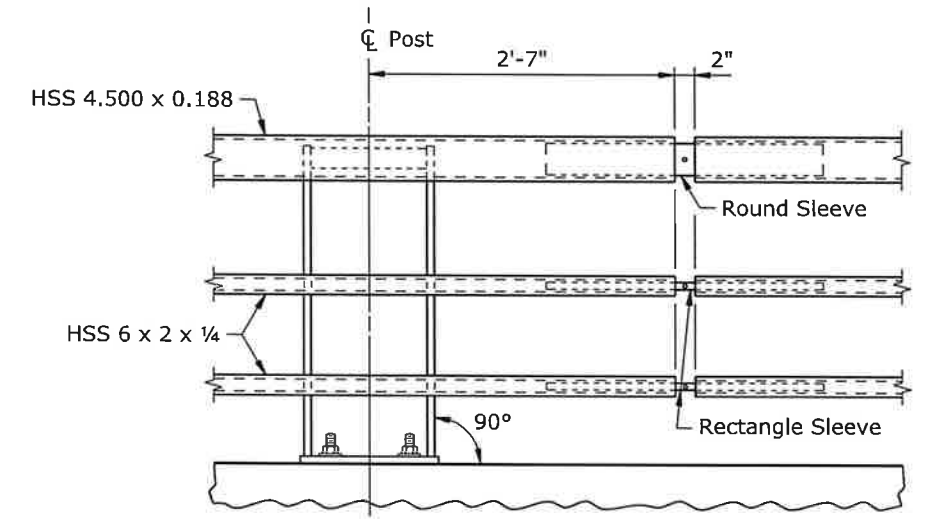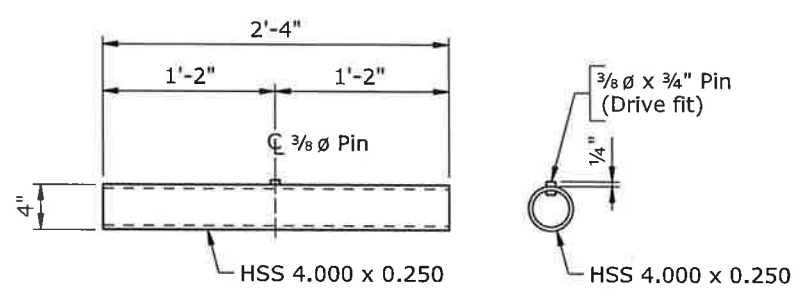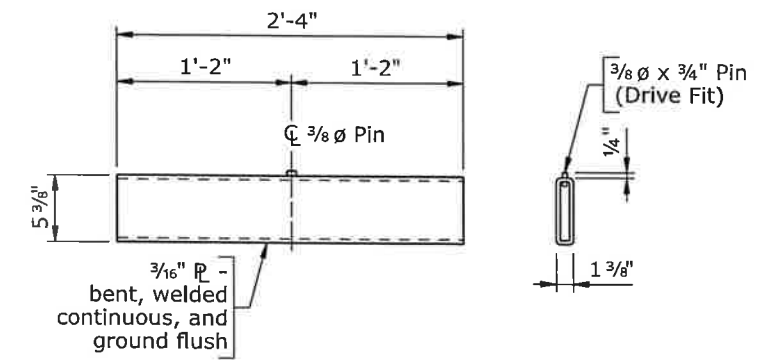
RECTANGLE SLEEVE DETAILS

2'-4"

1'-2"   1'-2"

₵ 3/8 ø Pin

3/8 ø x 3/4" Pin
(Drive Fit)

5 3/8"

1/4"

3/16" R -
bent, welded
continuous, and
ground flush

1 3/8"

SLEEVE   END VIEW

Note: 1) Ensure each rail length is continuous over a minimum
of two posts, but no more than four posts.
2) Splices may be located on either side of post.
3) Installation of box beam guardrail will require other
fabricated assemblies to be connected to the end
post. See road plans for details and pay item.