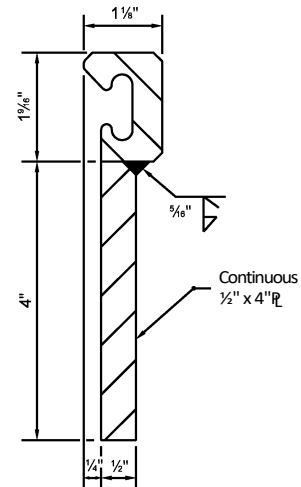
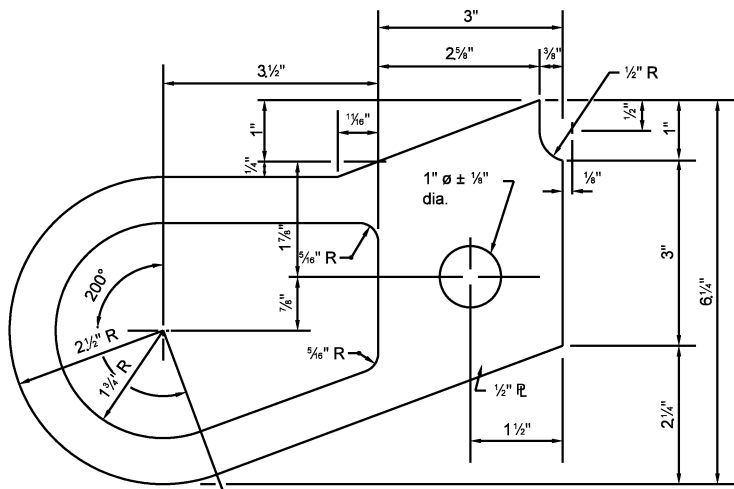


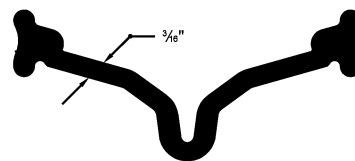
**ANCHOR PLATE ALTERNATE A-1**



**EXTRUSION & PLATE  
ASSEMBLY DETAIL**

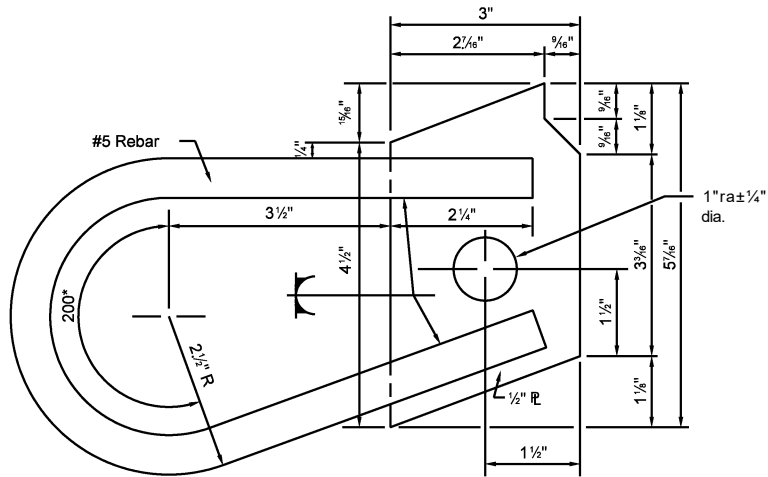


**ANCHOR PLATE ALTERNATE A-2**

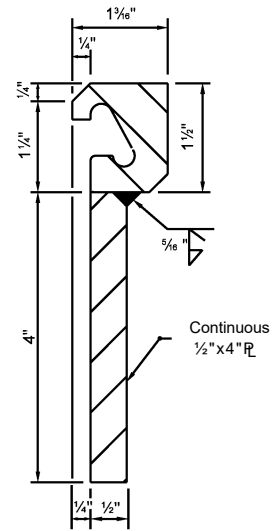


**STRIP SEAL**

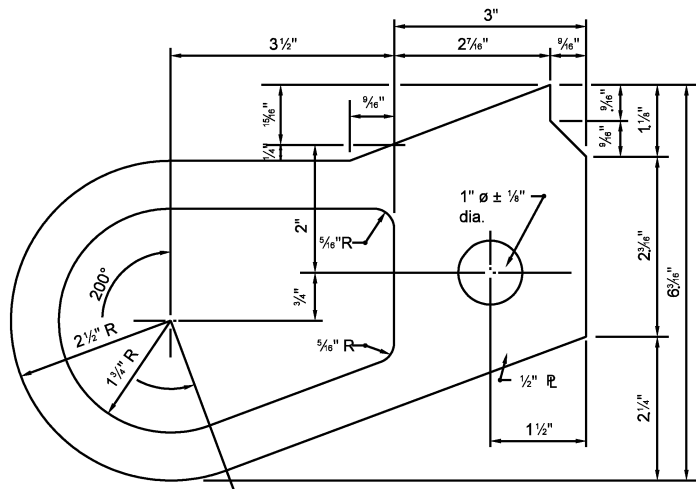
INDIANA DEPARTMENT OF TRANSPORTATION	
BRIDGE EXPANSION JOINT TYPE SS (ALTERNATE A)	
SEPTEMBER 2003	
STANDARD DRAWING NO. E 724-BSSJ -01	
	/s/ Richard L. VanCleave 9-02-03 DESIGN STANDARDS ENGINEER DATE
	/s/ Richard K. Smutzer 9-02-03 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	



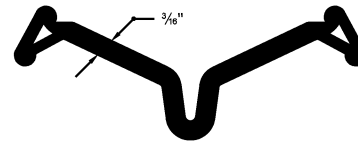
**ANCHOR PLATE ALTERNATE B-1**



**EXTRUSION & PLATE  
ASSEMBLY DETAIL**

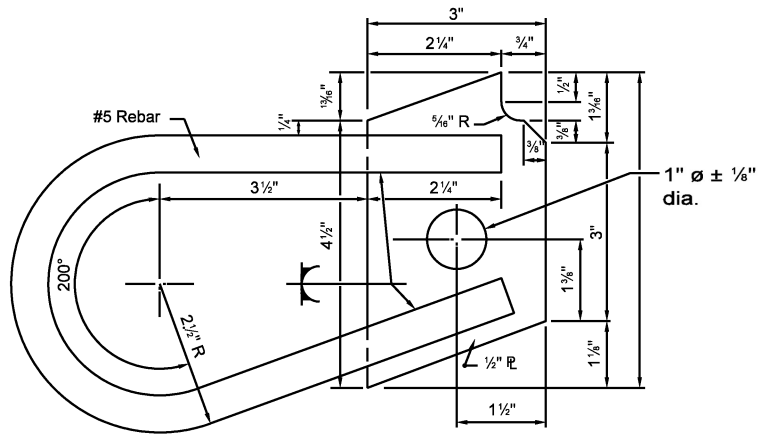


**ANCHOR PLATE ALTERNATE B-2**

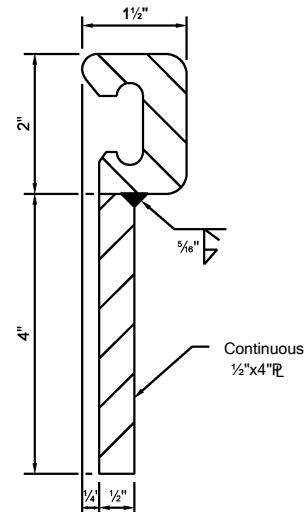


**STRIP SEAL**

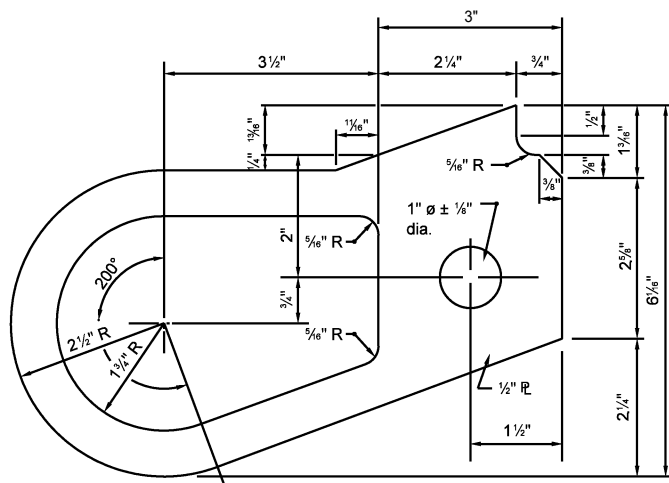
INDIANA DEPARTMENT OF TRANSPORTATION	
BRIDGE EXPANSION JOINT TYPE SS (ALTERNATE B)	
SEPTEMBER 2003	
STANDARD DRAWING NO. E 724-BSSJ -02	
	/s/ Richard L. VanCleave 9-02-03 DESIGN STANDARDS ENGINEER DATE
	/s/ Richard K. Smutzer 9-02-03 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	



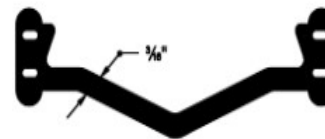
**ANCHOR PLATE ALTERNATE C-1**



**EXTRUSION & PLATE ASSEMBLY DETAIL**



**ANCHOR PLATE ALTERNATE C-2**

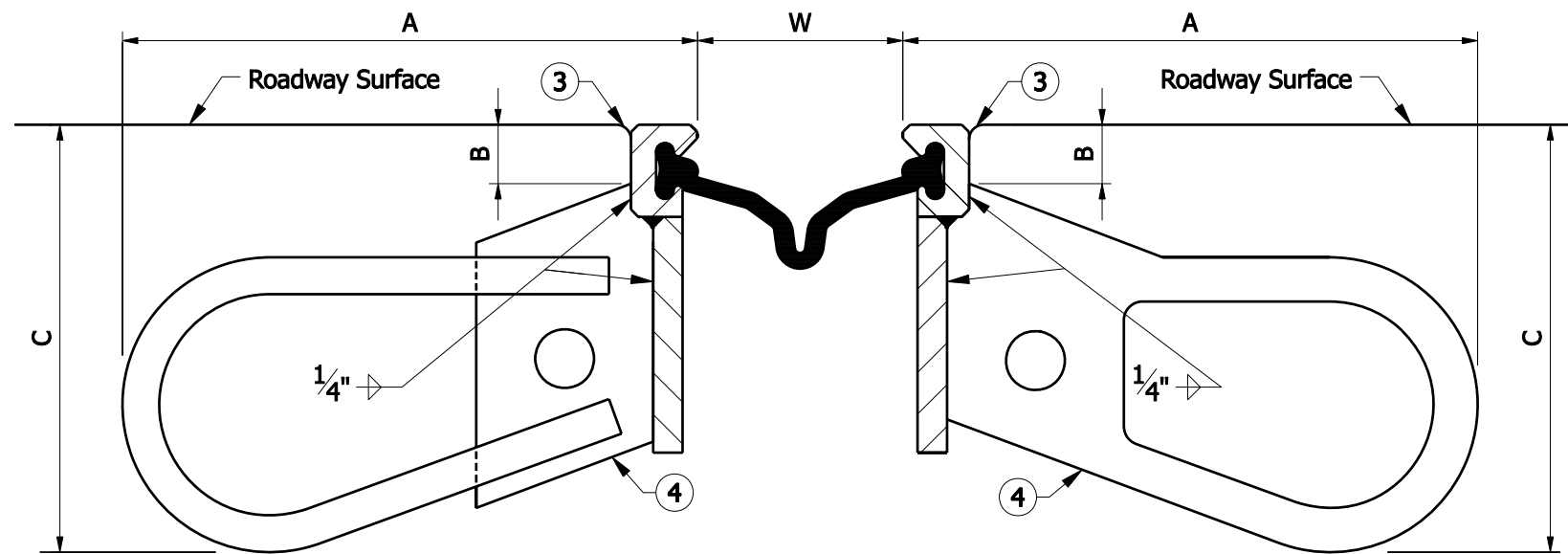


**STRIP SEAL**

INDIANA DEPARTMENT OF TRANSPORTATION	
BRIDGE EXPANSION JOINT TYPE SS (ALTERNATE C)	
SEPTEMBER 2003	
STANDARD DRAWING NO. E 724-BSSJ-03	
	/s/ Richard L. VanCleave 9-02-03 DESIGN STANDARDS ENGINEER DATE
	/s/ Richard K. Smutzer 9-02-03 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	

**GENERAL NOTES**

1. This sheet shall be used in conjunction with Standard Drawing Nos. E 724-BSSJ-05 through 09.
2. Allowable expansion lengths shall not be increased for skewed structures.
- ③ Tool concrete edges to  $\frac{1}{4}$ " to  $\frac{3}{8}$ " radius.
- ④ Anchors shall be spaced at 9 in.



**INSTALLATION DETAIL**

**DIMENSIONS**

ALTERNATES	A	B	C
A-1	9 $\frac{3}{4}$ "	1"	7 $\frac{1}{4}$ "
A-2			
B-1	9 $\frac{3}{4}$ "	1 $\frac{5}{16}$ "	7 $\frac{1}{8}$ "
B-2			
C-1	9 $\frac{3}{4}$ "	1 $\frac{13}{16}$ "	7 $\frac{1}{4}$ "
C-2			
D-1	9 $\frac{3}{4}$ "	1"	7 $\frac{5}{16}$ "
D-2			

**JOINT SETTING TABLE**

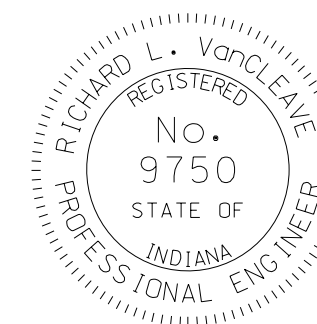
Ambient Temperature °F	DIMENSION "W"		
	Expansion Length		
	100'-200'	200'-300'	300'-400'
120°	2 $\frac{1}{8}$ "	1 $\frac{5}{16}$ "	$\frac{1}{2}$ "
100°	2 $\frac{7}{16}$ "	1 $\frac{3}{4}$ "	1 $\frac{1}{8}$ "
80°	2 $\frac{11}{16}$ "	2 $\frac{3}{16}$ "	1 $\frac{11}{16}$ "
60°	3"	2 $\frac{5}{8}$ "	2 $\frac{1}{4}$ "
40°	3 $\frac{5}{16}$ "	3 $\frac{1}{16}$ "	2 $\frac{13}{16}$ "
20°	3 $\frac{9}{16}$ "	3 $\frac{1}{2}$ "	3 $\frac{3}{8}$ "
0°	3 $\frac{7}{8}$ "	3 $\frac{5}{16}$ "	4"

**INDIANA DEPARTMENT OF TRANSPORTATION**

**BRIDGE EXPANSION  
JOINT TYPE SS**

**SEPTEMBER 2007**

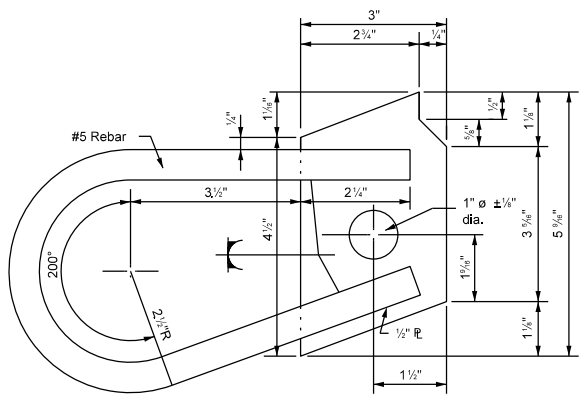
**STANDARD DRAWING NO. E 724-BSSJ-04**



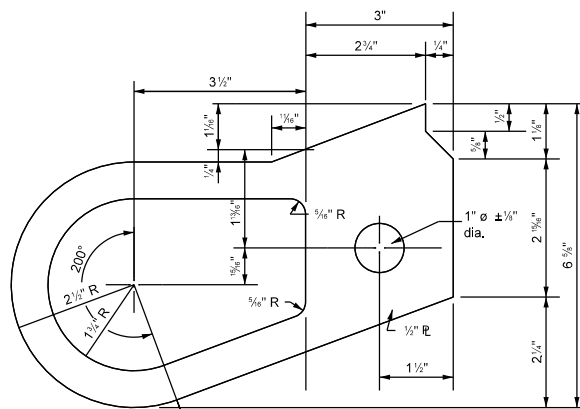
DESIGN STANDARDS ENGINEER

*/s/ Richard L. VanCleave* 09/04/07  
DESIGN STANDARDS ENGINEER DATE

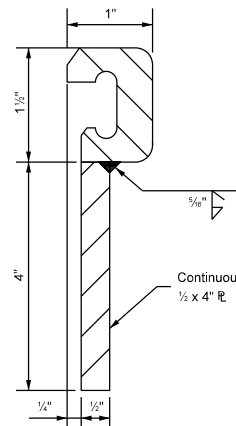
*/s/ Mark A. Miller* 09/04/07  
CHIEF HIGHWAY ENGINEER DATE



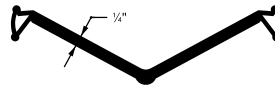
ANCHOR PLATE ALTERNATE D-1



ANCHOR PLATE ALTERNATE D-2



EXTRUSION & PLATE  
ASSEMBLY DETAIL



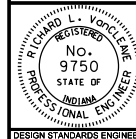
STRIP SEAL

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE EXPANSION JOINT  
TYPE SS (ALTERNATE D)

SEPTEMBER 2003

STANDARD DRAWING NO. E 724-BSSJ-04A



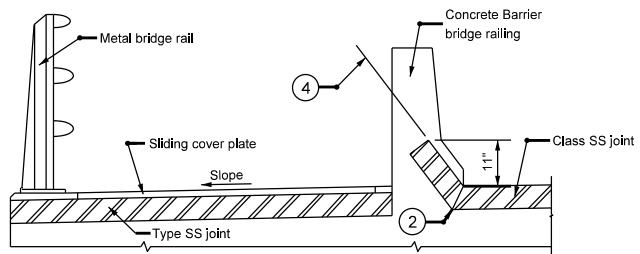
/s/ Richard L. VanCleave  
DESIGN STANDARDS ENGINEER

9-02-03  
DATE

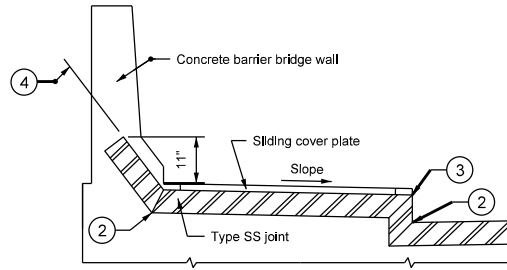
/s/ Richard K. Smutzer  
CHIEF HIGHWAY ENGINEER

9-02-03  
DATE

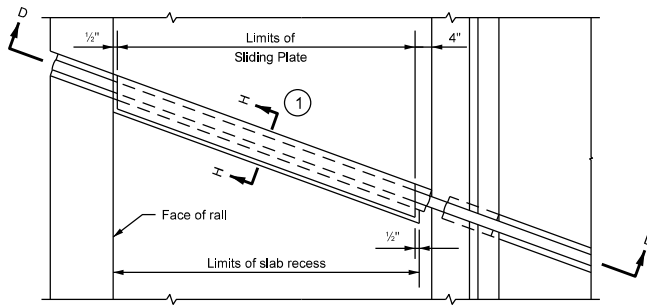
DESIGN STANDARDS ENGINEER



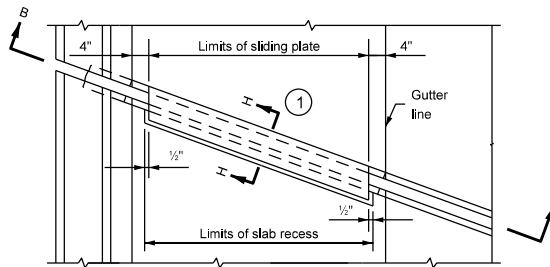
SECTION D-D



SECTION B-B



PLAN

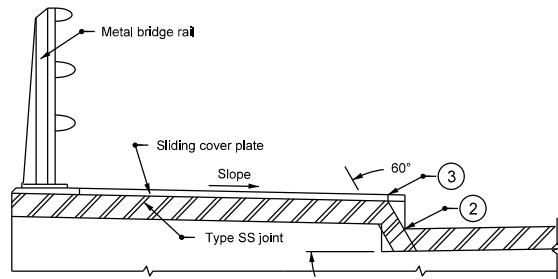


PLAN

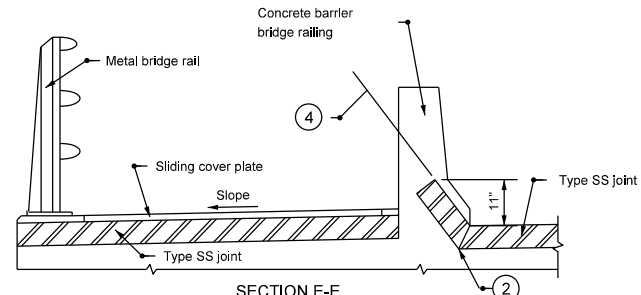
SIDEWALKS

- ① For section H-H see sheet number E 724-BSSJ-08.
- ② The extrusion and plate assemblies with anchors shall be miter cut and shop spliced at this location. A miter cut, vulcanized shop splice will be required in the strip seal at this location.
- ③ The extrusion and plate assemblies with anchors shall be shop prepared for field welding at this location. A miter cut vulcanized shop splice will be required in the strip seal at this location.
- ④ The joint shall be placed parallel to the lower sloped face of the rail with a maximum 3 in. depth to the top of the extrusion.

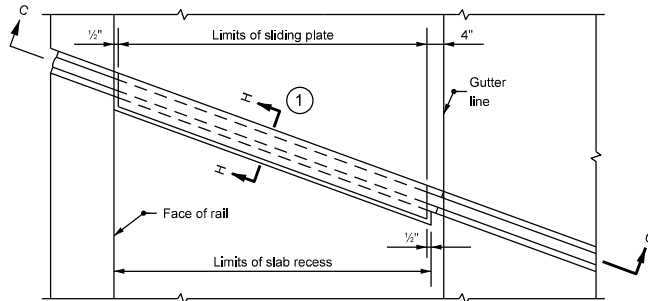
INDIANA DEPARTMENT OF TRANSPORTATION	
BRIDGE EXPANSION JOINT TYPE SS	
SEPTEMBER 1994	
STANDARD DRAWING NO. E 724-BSSJ-05	
DETAILS PLACED IN THIS FORMAT 11-15-99	
	/s/ Anthony L. Urenovich 11-15-99 DESIGN STANDARDS ENGINEER DATE
	/s/ Firooz Zandi 11-15-99 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	ORIGINALLY APPROVED 9-20-94



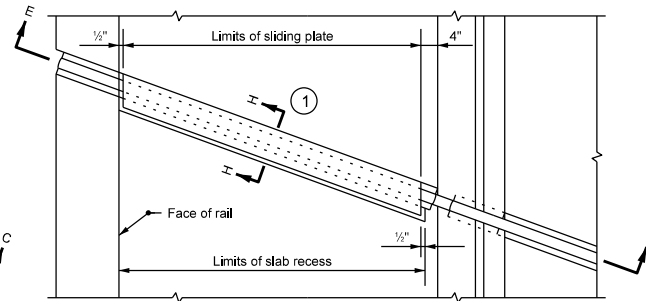
SECTION C-C



SECTION E-E



PLAN

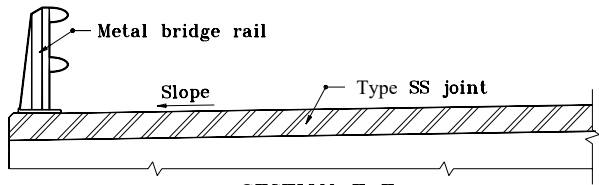


PLAN

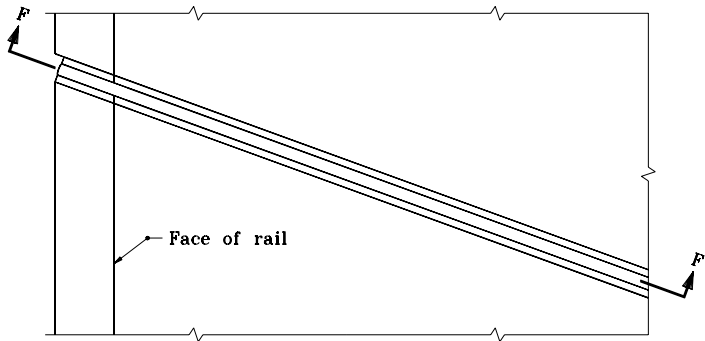
SIDEWALKS

- ① For section H-H see sheet number E 724-BSSJ-08.
- ② The extrusion and plate assemblies with anchors shall be miter cut and shop spliced at this location. A miter cut, vulcanized shop splice will be required in the strip seat at this location.
- ③ The extrusion and plate assemblies with anchors shall be shop prepared for field welding at this location. A miter cut vulcanized shop splice will be required in the strip seat at this location.
- ④ The joint shall be placed parallel to the lower sloped face of the rail with a maximum 3 in. depth to the top of the extrusion.

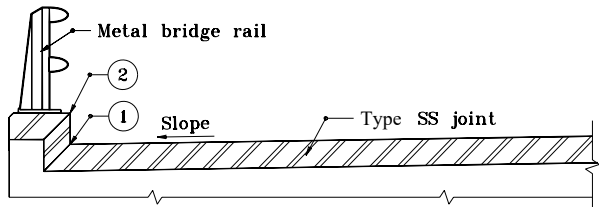
INDIANA DEPARTMENT OF TRANSPORTATION	
BRIDGE EXPANSION JOINT TYPE SS	
MARCH 2005	
STANDARD DRAWING NO. E 724-BSSJ-06	
	<i>/s/ Richard L. VanCleave</i> 3-01-05 <small>DESIGN STANDARDS ENGINEER DATE</small>
	<i>/s/ Richard K. Smutzer</i> 3-01-05 <small>CHIEF HIGHWAY ENGINEER DATE</small>
<small>DESIGN STANDARDS ENGINEER</small>	



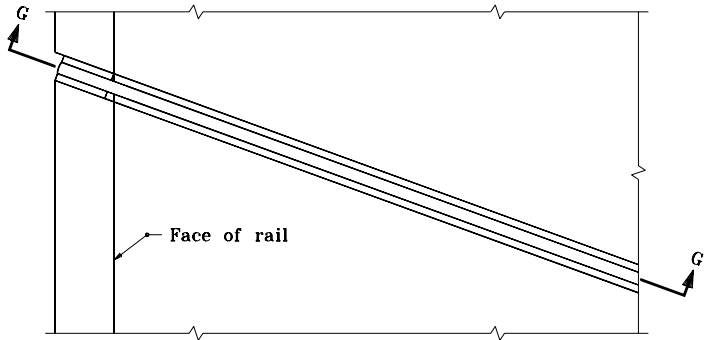
**SECTION F-F**



**PLAN**



**SECTION G-G**



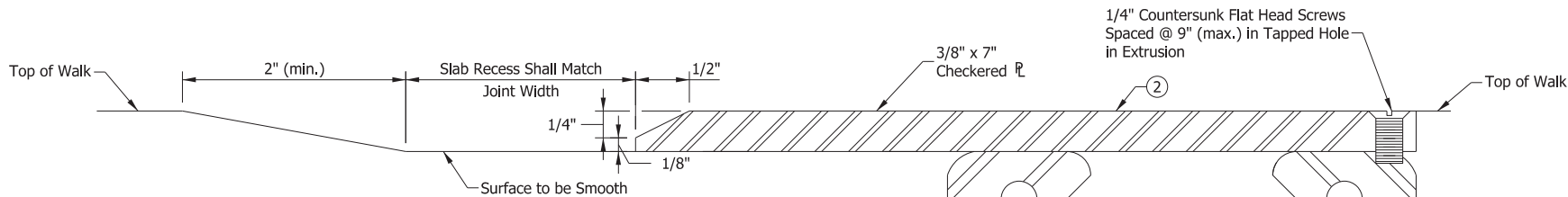
**PLAN**

**METAL RAILING WITHOUT SIDEWALK**

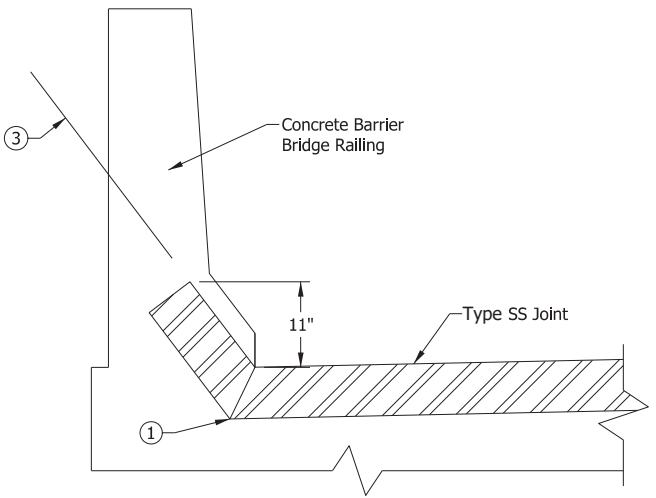
- ① The extrusion and plate assemblies with anchors shall be miter cut and shop spliced at this location. A miter cut, vulcanized shop splice will be required in the strip seal at the location.
- ② The extrusion and plate assemblies with anchors shall be shop prepared for field welding at this location. A miter cut, vulcanized shop splice will be required in the strip seal at this location.

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>BRIDGE EXPANSION JOINT TYPE SS</b>	
SEPTEMBER 1994	
<b>STANDARD DRAWING NO. E 724-BSSJ-07</b>	
	DETAILS PLACED IN THIS FORMAT 11-15-99 /s/ Anthony L. Uremovich 11-15-99 DESIGN STANDARDS ENGINEER DATE
DESIGN STANDARDS ENGINEER	/s/ Firooz Zandi 11-15-99 CHIEF HIGHWAY ENGINEER DATE ORIGINALLY APPROVED 9-30-94

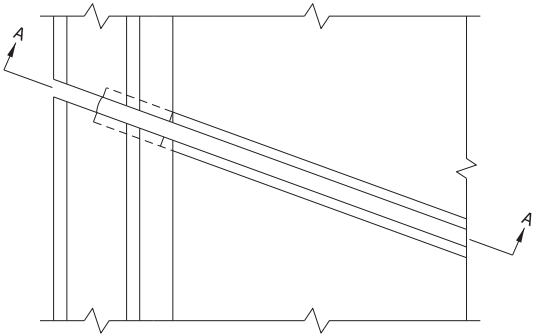




**SECTION H-H**  
**SLIDING COVER PLATE DETAIL**





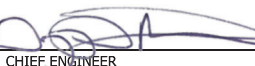
**SECTION A-A**



**CONCRETE BARRIER BRIDGE RAILING**


**NOTES:**

- ① The extrusion and plate assemblies with anchors shall be miter cut and shop spliced at this location. A miter cut, vulcanized shop splice will be required in the strip seal at this location.
- ② The length of the sliding cover plate, measured along the centerline of the Type SS Joint, shall be 3/8" shorter at each end than the limits of the recess as shown on these details.
- ③ The joint shall be placed parallel to the lower sloped face of the rail with a maximum 3" depth to the top of the extrusion.

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>BRIDGE EXPANSION</b>	
<b>JOINT TYPE SS</b>	
SEPTEMBER 2021	
STANDARD DRAWING NO.	E 724-BSSJ-08
	 3/2/2021 <small>DESIGN STANDARDS ENGINEER      DATE</small>
	 03/17/2021 <small>CHIEF ENGINEER      DATE</small>

**GENERAL NOTES**

1. Standard Drawing Nos. E 724-BSSJ-05 through 09 shall be used in conjunction with Standard Drawing Nos. E 724-BSSJ-01 through 04.
2. The details shown on Standard Drawing Nos. E 724-BSSJ-05 through 09 are the only approved methods of placing Type SS Joints in curbs, sidewalks, concrete bridge railing and under metal bridge railing.
3. The locations of the anchor plates in sidewalks and in the concrete barrier bridge rail shall be as shown on the approved shop drawings but in no case shall the spacing exceed 9 in.

INDIANA DEPARTMENT OF TRANSPORTATION	
BRIDGE EXPANSION JOINT TYPE SS SEPTEMBER 1994	
STANDARD DRAWING NO. <b>E 724-BSSJ-09</b>	
 No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER	DETAILS PLACED IN THIS FORMAT 11-15-99
	/s/ <i>Anthony L. Uremovich</i> 11-15-99 DESIGN STANDARDS ENGINEER DATE
	/s/ <i>Firooz Zandi</i> 11-15-99 CHIEF HIGHWAY ENGINEER DATE
	DESIGN STANDARDS ENGINEER      ORIGINALLY APPROVED      9-30-94