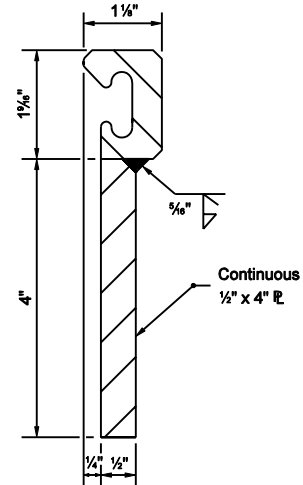
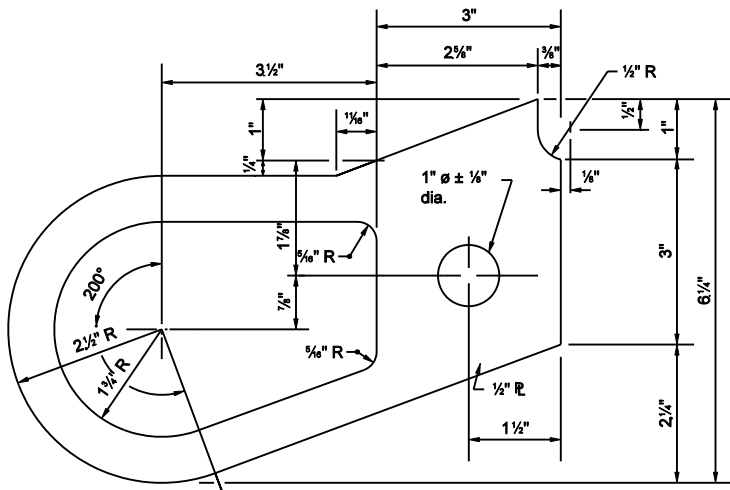


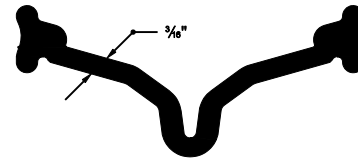
**ANCHOR PLATE ALTERNATE A-1**



**EXTRUSION & PLATE  
ASSEMBLY DETAIL**

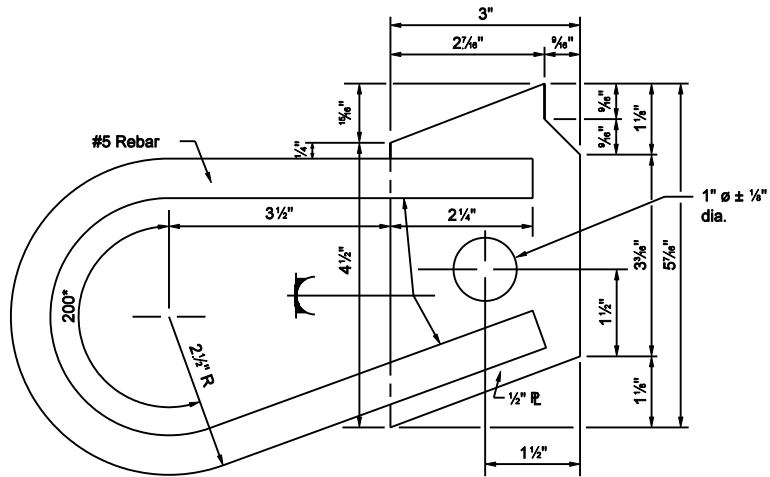


**ANCHOR PLATE ALTERNATE A-2**

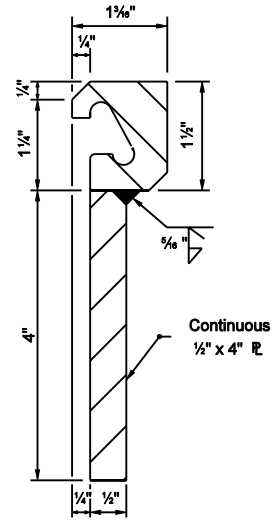


**STRIP SEAL**

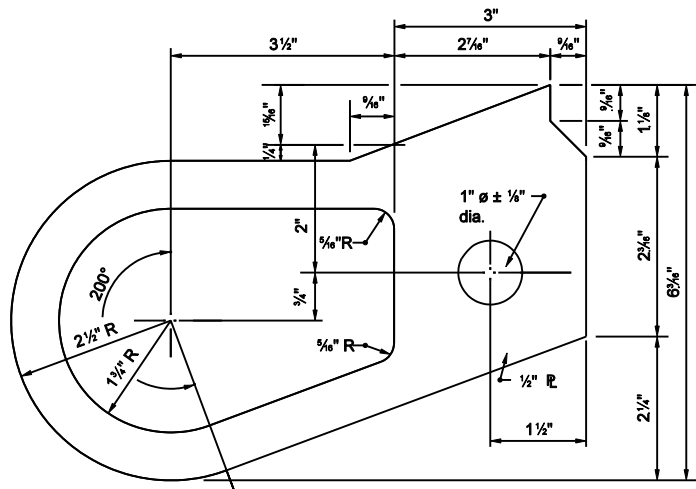
INDIANA DEPARTMENT OF TRANSPORTATION	
EXPANSION JOINTS CLASS SS (ALTERNATE A)	
SEPTEMBER 2003	
STANDARD DRAWING NO. E 724-BSSJ -01	
	/s/ Richard L. VanCleave 9-02-03 DESIGN STANDARDS ENGINEER DATE
	/s/ Richard K. Smutzer 9-02-03 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	



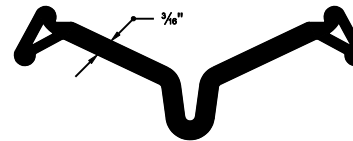
**ANCHOR PLATE ALTERNATE B-1**



**EXTRUSION & PLATE  
ASSEMBLY DETAIL**

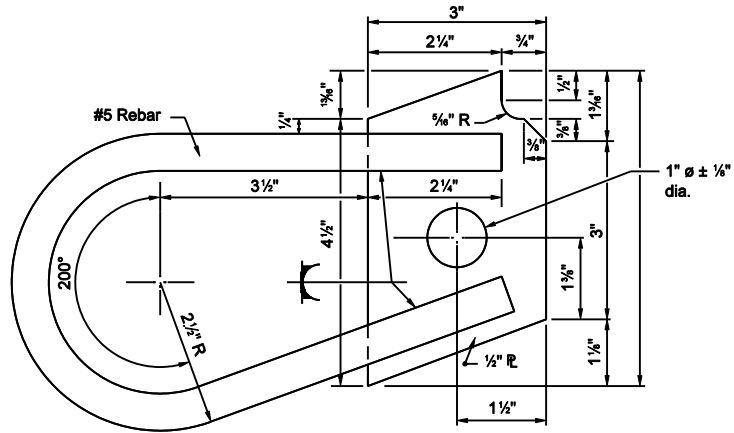


**ANCHOR PLATE ALTERNATE B-2**

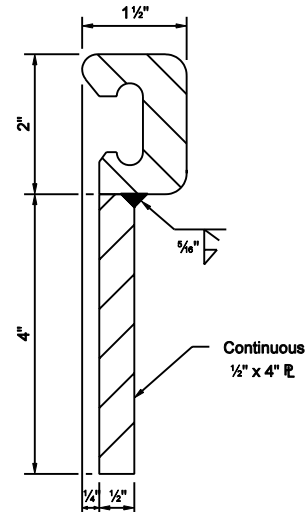


**STRIP SEAL**

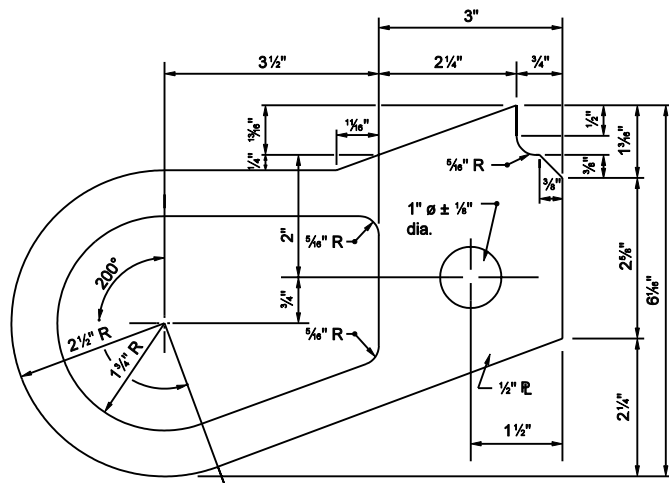
INDIANA DEPARTMENT OF TRANSPORTATION	
EXPANSION JOINTS CLASS SS (ALTERNATE B)	
SEPTEMBER 2003	
STANDARD DRAWING NO. E 724-BSSJ -02	
	/s/ Richard L. VanCleave 9-02-03 DESIGN STANDARDS ENGINEER DATE
	/s/ Richard K. Smutzer 9-02-03 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	



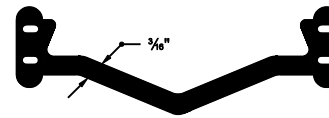
**ANCHOR PLATE ALTERNATE C-1**



**EXTRUSION & PLATE  
ASSEMBLY DETAIL**



**ANCHOR PLATE ALTERNATE C-2**

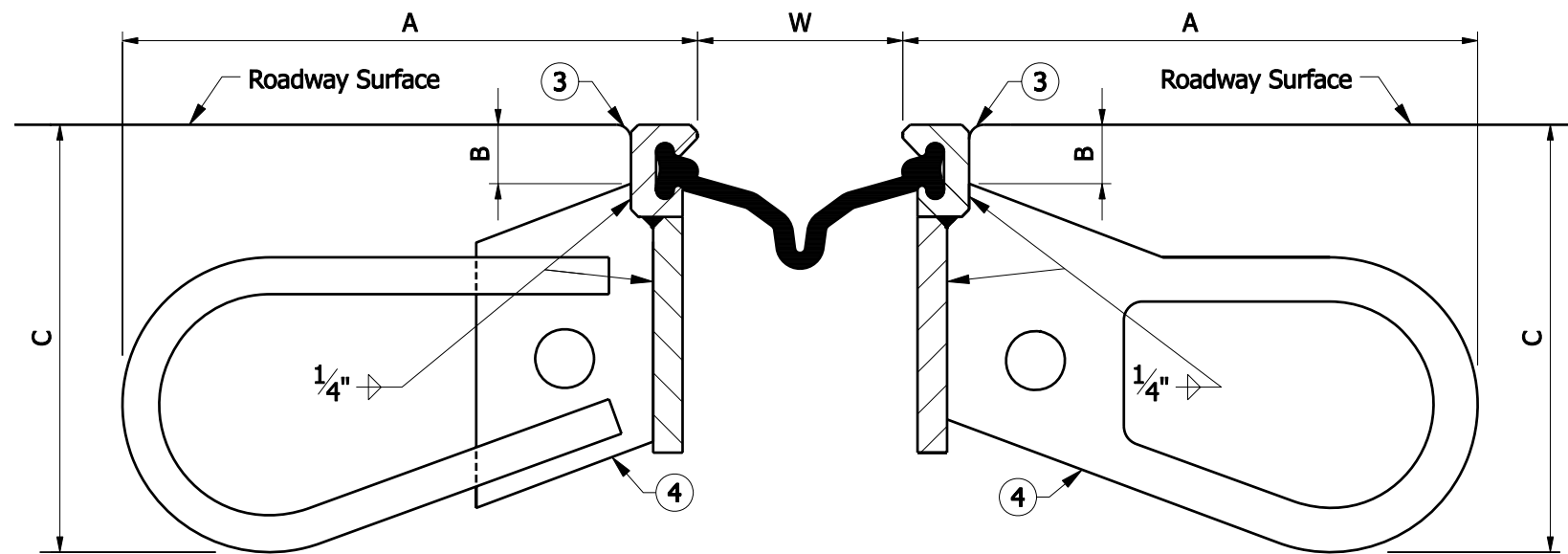


**STRIP SEAL**

INDIANA DEPARTMENT OF TRANSPORTATION	
EXPANSION JOINTS CLASS 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

**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			

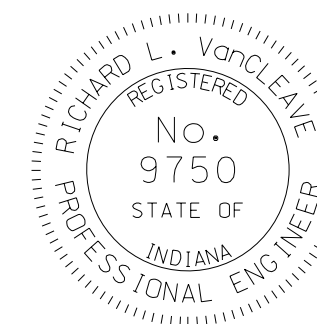
JOINT SETTING TABLE			
Ambient Temperature °F	DIMENSION "W"		
	Expansion Length		
	100'-200'	200'-300'	300'-400'
120°	2 $\frac{1}{8}$ "	1 $\frac{5}{16}$ "	$\frac{1}{2}$ "
100°	2 $\frac{7}{8}$ "	1 $\frac{3}{4}$ "	1 $\frac{1}{8}$ "
80°	2 $\frac{11}{16}$ "	2 $\frac{3}{16}$ "	1 $\frac{11}{16}$ "
60°	3"	2 $\frac{5}{8}$ "	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**

**EXPANSION JOINTS  
CLASS SS**

**SEPTEMBER 2007**

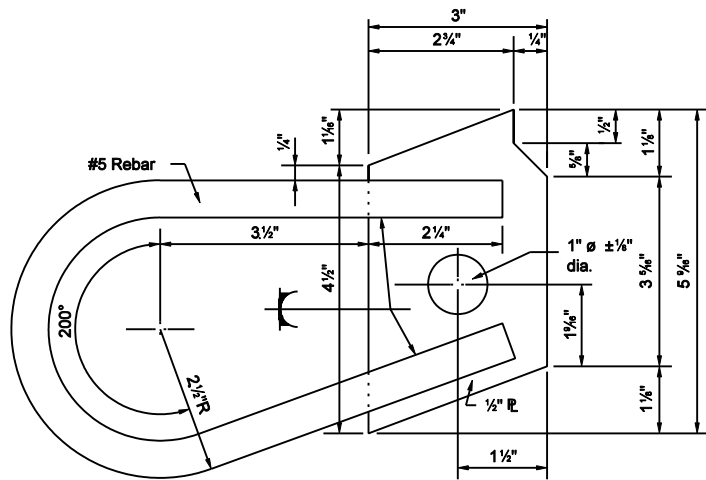
**STANDARD DRAWING NO. E 724-BSSJ-04**



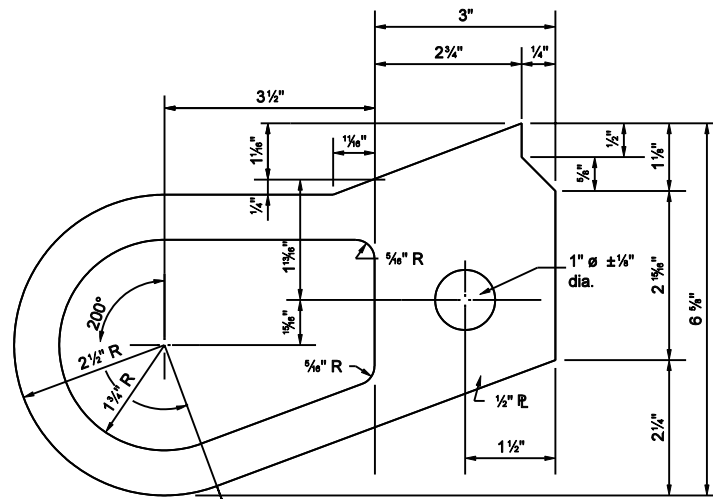
DESIGN STANDARDS ENGINEER

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

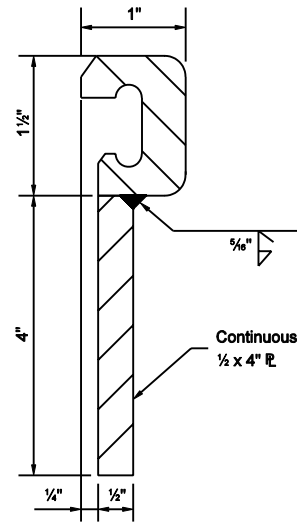
*/s/ Mark A. Miller* 09/04/07  
CHIEF HIGHWAY ENGINEER DATE



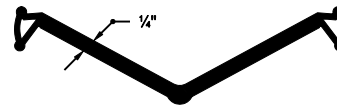
**ANCHOR PLATE ALTERNATE D-1**



**ANCHOR PLATE ALTERNATE D-2**

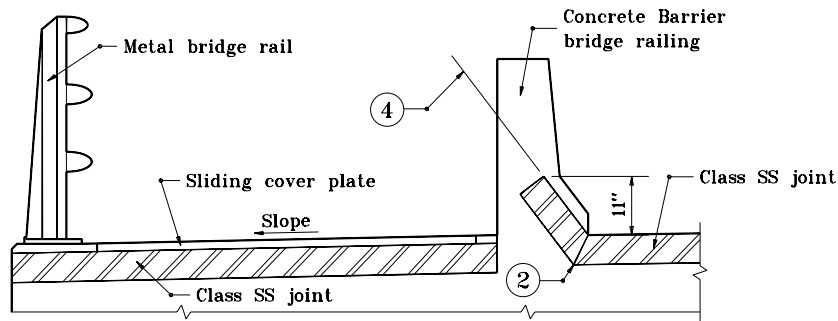


**EXTRUSION & PLATE  
ASSEMBLY DETAIL**

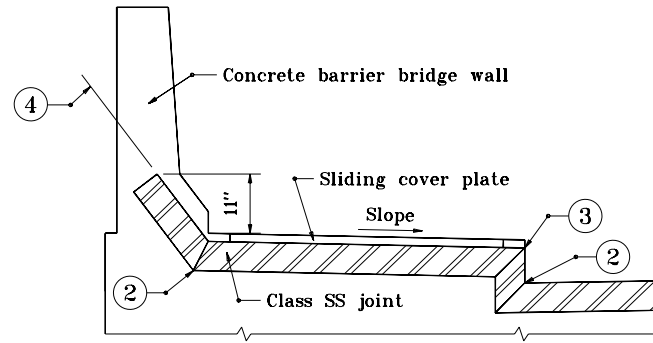


**RJ-400 STRIP  
SEAL GLAND**

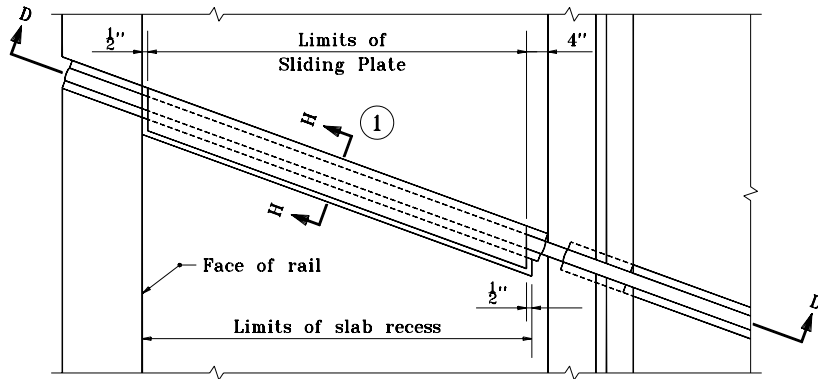
INDIANA DEPARTMENT OF TRANSPORTATION	
EXPANSION JOINTS CLASS SS (ALTERNATE D)	
SEPTEMBER 2003	
STANDARD DRAWING NO. E 724-BSSJ-04A	
	/s/ Richard L. VanCleave 9-02-03 DESIGN STANDARDS ENGINEER DATE
	/s/ Richard K. Smutzer 9-02-03 CHIEF HIGHWAY ENGINEER DATE



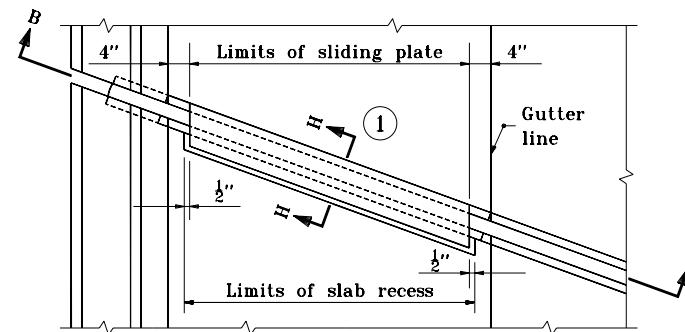
**SECTION D-D**



**SECTION B-B**



**PLAN**



**PLAN**

**SIDEWALKS**

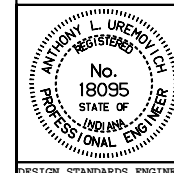
- ① For section H-H see sheet number E 724-BSSJ-08.
- ② The extrusion and plate assemblies with anchors shall be miter cut and shop spliced at this location. A miter cut, vulcanized shop splice will be require in the strip seal at this location.
- ③ The extrusion and plate assemblies with anchors shall be shop prepared for field welding at this location. A miter cut vulcanized shop splice will be require 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

**EXPANSION JOINTS CLASS SS**

SEPTEMBER 1994

**STANDARD DRAWING NO. E 724-BSSJ-05**



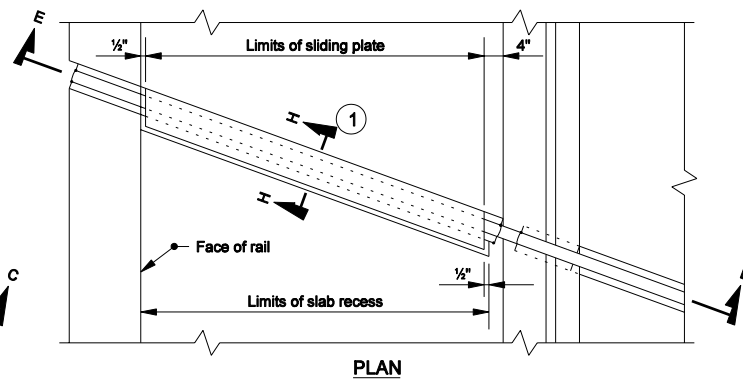
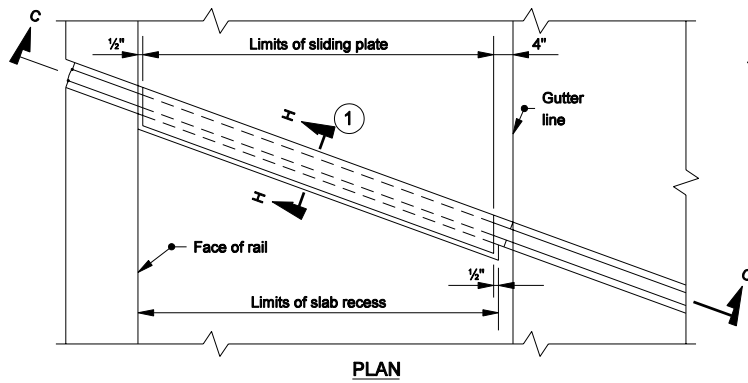
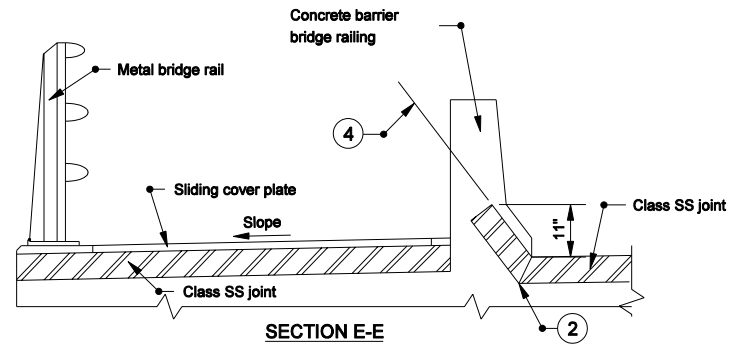
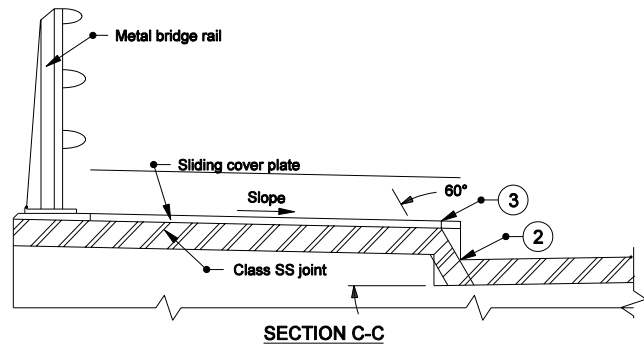
DETAILS PLACED IN THIS FORMAT 11-15-99

/s/ Anthony L. Uremovich 11-15-99  
DESIGN STANDARDS ENGINEER DATE

/s/ Firooz Zandi 11-15-99  
CHIEF HIGHWAY ENGINEER DATE

DESIGN STANDARDS ENGINEER

ORIGINALLY APPROVED 9-30-94



**SIDEWALKS**

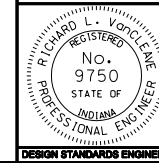
- ① For section H-H see sheet number E 724-BSSJ-08.
- ② The extrusion and plate assemblies with anchors shall be miter cut and shop spliced at this location. A miter cut, vulcanized shop splice will be required in the strip seal at this location.
- ③ The extrusion and plate assemblies with anchors shall 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

**EXPANSION JOINTS  
CLASS SS**

MARCH 2005

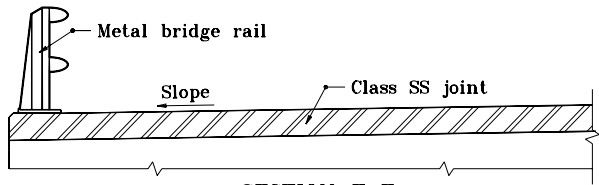
**STANDARD DRAWING NO. E 724-BSSJ-06**



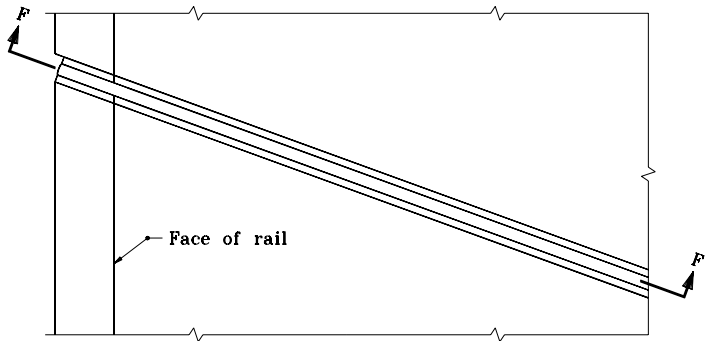
/s/ Richard L. VanCleave 3-01-05  
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 3-01-05  
CHIEF HIGHWAY ENGINEER DATE

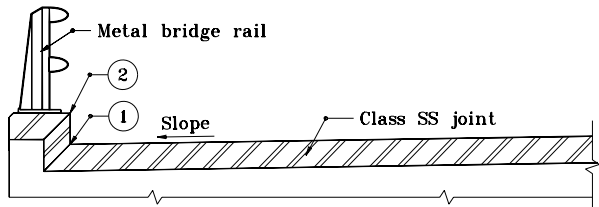
DESIGN STANDARDS ENGINEER



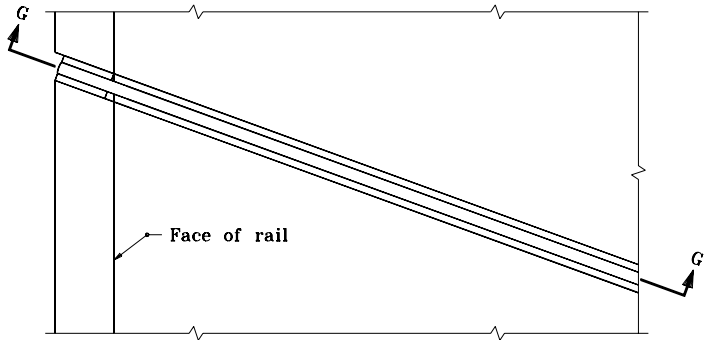
**SECTION F-F**



**PLAN**



**SECTION G-G**



**PLAN**

**METAL RAILING WITHOUT SIDEWALK**

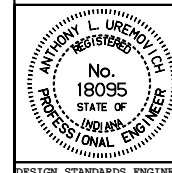
- ① The extrusion and plate assemblies with anchors shall be miter cut and shop spliced at this location. A miter cut, vulcanized shop spliced will be required in the strip seal at the location.
- ② The extrusion and plate assemblies with anchors shall be shop prepared for field welding at this location.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

INDIANA DEPARTMENT OF TRANSPORTATION

**EXPANSION JOINTS CLASS SS**

SEPTEMBER 1994

STANDARD DRAWING NO. **E 724-BSSJ-07**



DETAILS PLACED IN THIS FORMAT 11-15-99

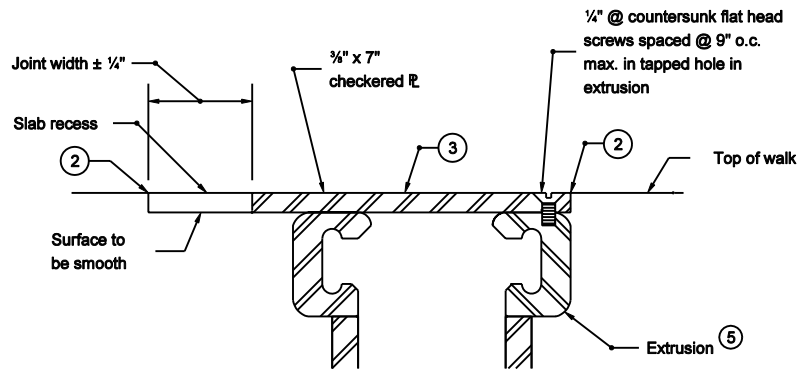
/s/ Anthony L. Uremovich 11-15-99  
DESIGN STANDARDS ENGINEER DATE

/s/ Firooz Zandi 11-15-99  
CHIEF HIGHWAY ENGINEER DATE

DESIGN STANDARDS ENGINEER

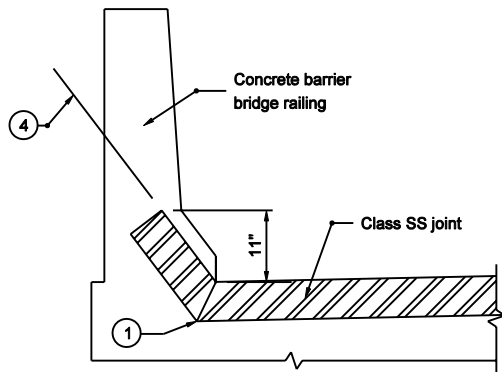
ORIGINALLY APPROVED 9-30-94



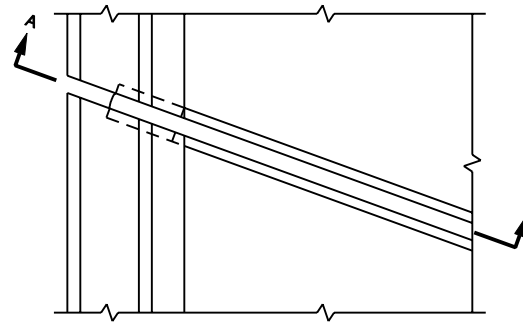


SECTION H-H

**SLIDING COVER PLATE DETAIL**



SECTION A-A



PLAN

**CONCRETE BARRIER BRIDGE RAILING**

- 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 Tool concrete edges to  $\frac{1}{4}$ " to  $\frac{3}{8}$ " radius.
- ③ The length of the sliding cover plate, measured along the centerline of the Class SS Joint, shall be  $\frac{3}{8}$ " shorter at each end than the limits of the recess as shown on these details.
- ④ 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.
- ⑤ See Standard Drawings E 724-BSSJ-03 and -04 for details.

INDIANA DEPARTMENT OF TRANSPORTATION	
EXPANSION JOINTS CLASS SS	
SEPTEMBER 2003	
STANDARD DRAWING NO. E 724-BSSJ-08	
	/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. 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 Class 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

**EXPANSION JOINTS CLASS SS**

SEPTEMBER 1994

**STANDARD DRAWING NO. E 724-BSSJ-09**

	DETAILS PLACED IN THIS FORMAT	11-15-99
	/s/ Anthony L. Uremovich	11-15-99
	DESIGN STANDARDS ENGINEER	DATE
	/s/ Firooz Zandi	11-15-99
	CHIEF HIGHWAY ENGINEER	DATE
DESIGN STANDARDS ENGINEER	ORIGINALLY APPROVED	9-30-94