

October 26, 2010



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF, Ala	80	13.9/14.3, 0.0/2.7	1164514R1	1204
 REGISTERED ENGINEER - CIVIL 08-12-11 PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. T.Y. LIN / MOFFATT & NICHOL TWO HARRISON STREET SAN FRANCISCO, CA 94105 Caltrans now has a web site! To get to the web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a>					



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CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
SHEET \_\_\_\_ OF \_\_\_\_

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

W. Long, Y. Liu  
 DESIGN OVERSIGHT  
*Wesley Long, Y. Liu*  
 SIGN OFF DATE 11/04/11

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
△	11/04/11	SKYWAY DIVIDER RAIL MODIFICATIONS	AE	JB	219
△	08/12/11	SKYWAY BIKEPATH RAILING MODIFICATIONS	AE	JB	179

DESIGN	BY	CHECKED
BY	J. Birdy	A. L. Ely
DETAILS	BY J. Birdy	CHECKED A. L. Ely
QUANTITIES	BY J. Birdy	CHECKED A. L. Ely

**PREPARED FOR THE  
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION**

R. Manzanarez  
PROJECT ENGINEER

BRIDGE NO.	34-0006 L/R
KILOMETER POST	13.9/14.3, 0.0/2.7

**SAN FRANCISCO OAKLAND BAY BRIDGE  
EAST SPAN SEISMIC SAFETY PROJECT**

**SKYWAY CLEANUP ITEMS  
BIKEPATH RAILING SHIMS**

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS



CU 04  
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	08/12/11
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SHEET	747514R1	OF	
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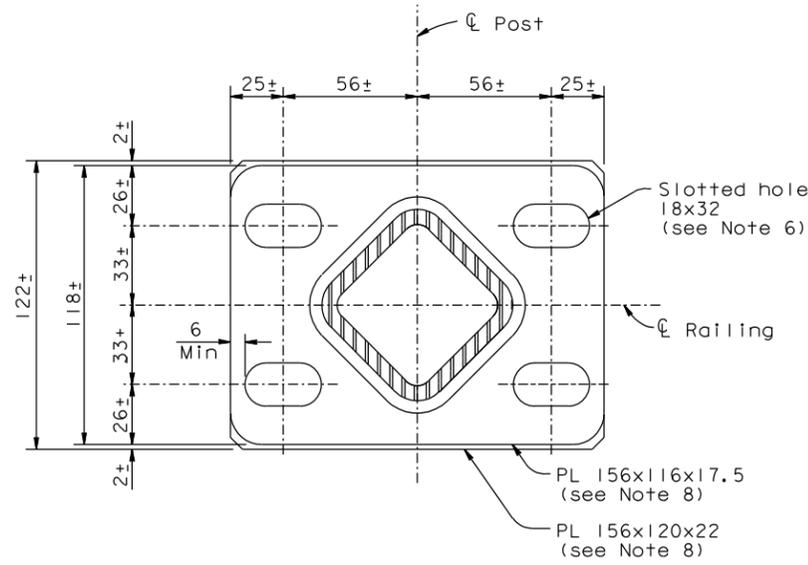
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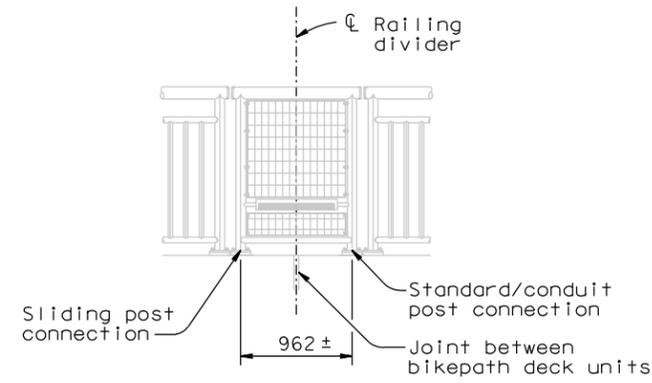
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF, Ala	80	13.9/14.3, 0.0/2.7	1164525R1	1204

REGISTERED ENGINEER - CIVIL	
11-04-11	
PLANS APPROVAL DATE	
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**POST BASEPLATE**  
1:1.5



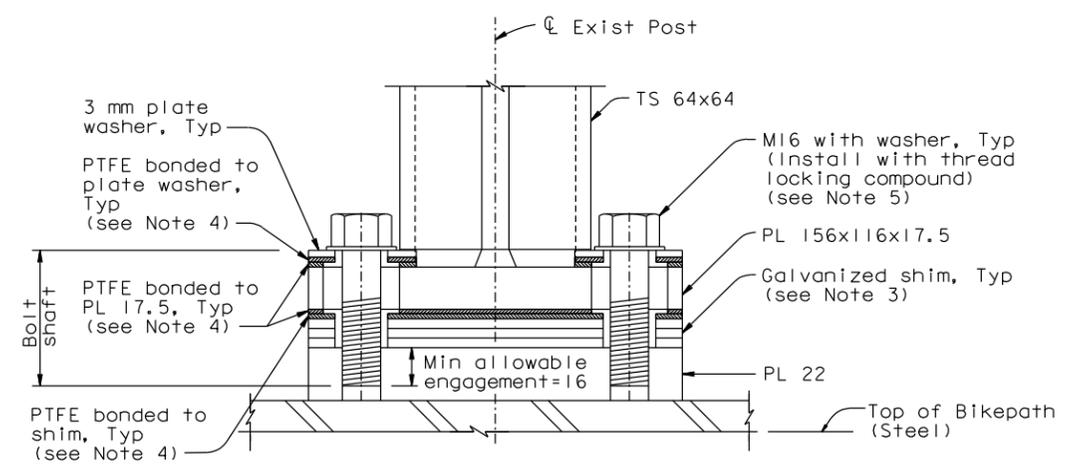
**EXISTING BIKEPATH RAILING**  
1:30

**RECOMMENDED BOLT ALIGNMENT PROCEDURE:**

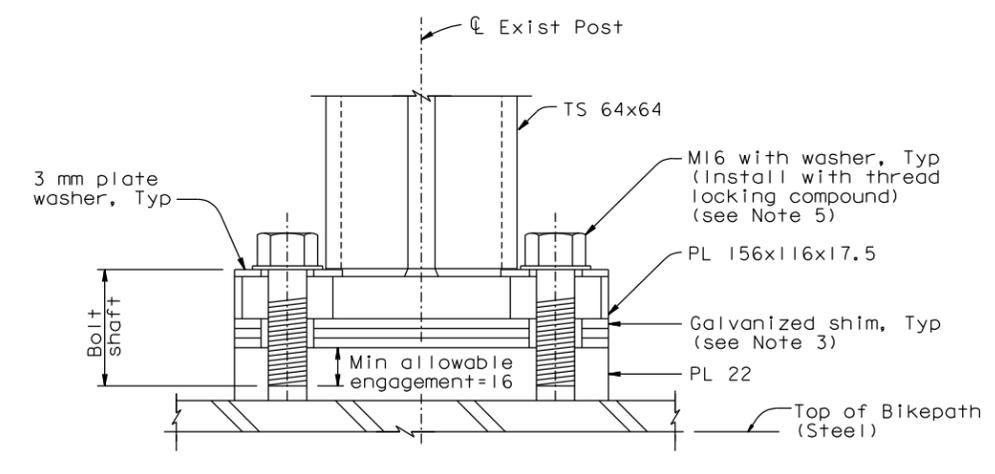
1. Install sliding post with the bolts centered in the slots. Use sliding plate washer.
2. Install standard/conduit post.
3. If the bolt in the standard/conduit post is located in the center or to the inside (toward the post) of the slot, then use the inner plate washer.
4. If the bolt in the standard/conduit post is located in the center or to the outside (away from the post) of the slot, then use the outer plate washer.

**NOTES:**

1. The Contractor shall verify all controlling field dimensions before ordering or fabricating any material or performing any work that might thereby be affected.
2. Sliding post shall be installed with the bolts centered in the slots ( $\pm 3$  mm).
3. The Contractor may use shims as necessary to align top rail of bikepath railing. One shim may be tapered.
4. PTFE shall be unfilled virgin grade sheets, 1.5 to 2 mm thick. Use Rafter Bondit B-45TR or equivalent to bond PTFE to steel surfaces. Surface preparation for PTFE and steel mating surfaces and application of this bonding agent shall follow the manufacturer's recommendations. For PTFE outlines, see Modified Bikepath Railing Details No.2" sheet.
5. All M16 bolts shall be new. Bolts on sliding post shall be tightened to snug tight. Bolts on standard/conduit posts shall be tightened to snug tight plus  $1/4$  turn.
6. Width of slotted hole to match existing field conditions. 18 dimension based on Contractor's field survey and may vary.
7. All bolt holes shall be cleaned free of paint, rust and grime.
8. Repair existing galvanized and painted surfaces as directed by the Engineer.



**SECTION AT SLIDING POST**  
1:1.5



**SECTION AT STANDARD/CONDUIT POST**  
1:1.5

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SHEET \_\_\_\_ OF \_\_\_\_

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W. Long, Y. Liu  
DESIGN OVERSIGHT  
SIGN OFF DATE 12/16/11

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
△	12/16/11	SKYWAY DIVIDER RAIL MODIFICATIONS	R1	JD	219
△	11/04/11	SKYWAY DIVIDER RAIL MODIFICATIONS	R1	JD	219

DESIGN	BY	CHECKED
DESIGN	R. Iliya	J. Duxbury
DETAILS	A. Baumberger	H. Tazir
QUANTITIES	A. Baumberger	H. Tazir

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

R. Manzanarez  
PROJECT ENGINEER

BRIDGE NO. 34-0006 L/R  
KILOMETER POST 13.9/14.3, 0.0/2.7

**SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT**

**SKYWAY CLEANUP ITEMS MODIFIED BIKEPATH RAILING DETAILS NO. 1**

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 04  
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES  
REVISION DATES (PRELIMINARY STAGE ONLY)  
11/04/11  
SHEET 747525R1 OF

October 26, 2010

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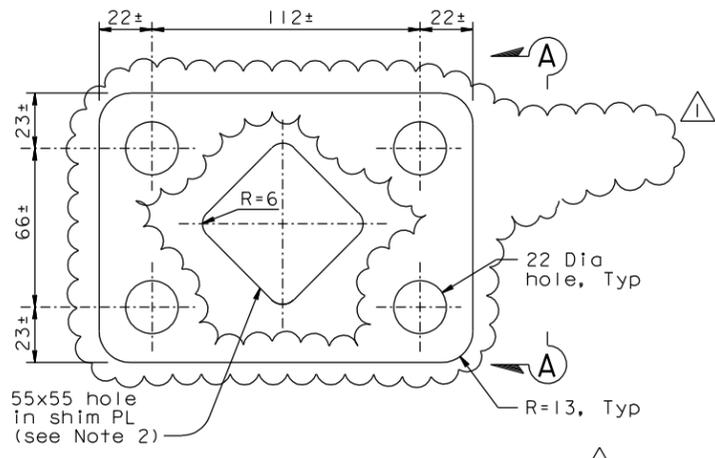
October 26, 2010



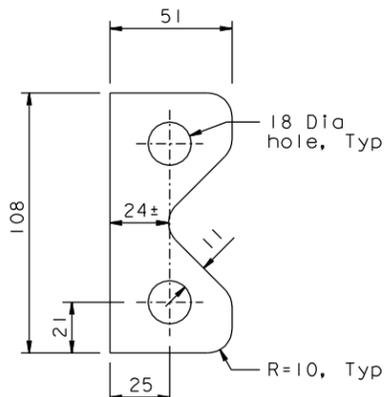
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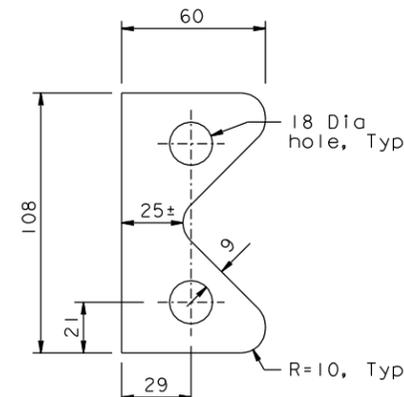
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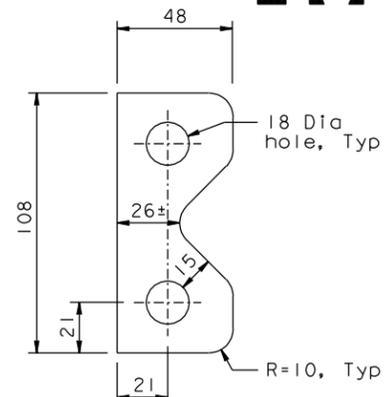
**SHIM DETAIL** (See Note 5)  
1:1.5



**SLIDING** (See Note 3)

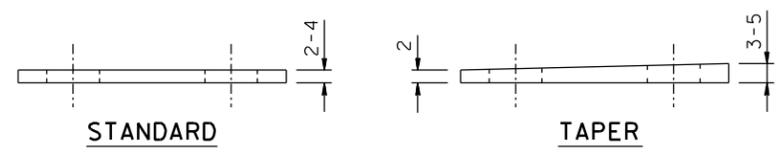


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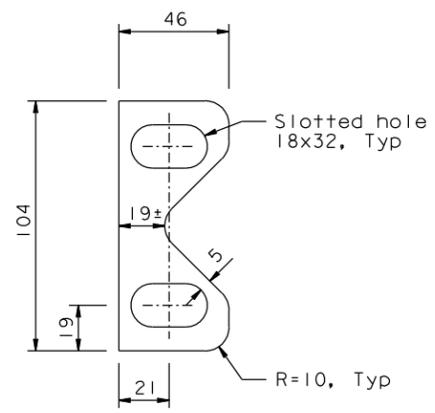


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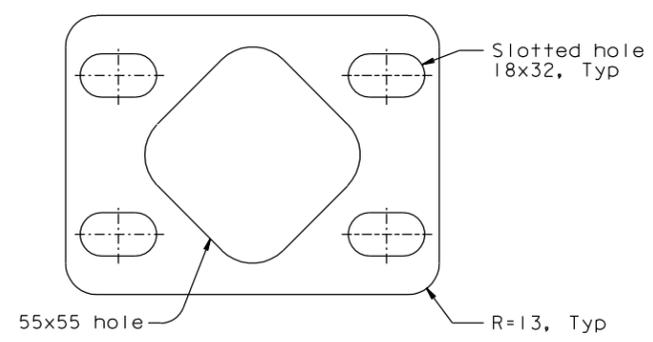
**PLATE WASHER DETAIL** (See Note 1)  
1:1.5



**VIEW A-A**  
1:1.5



**AT TOP OF BASE PLATE**



**AT BOTTOM OF BASE PLATE** (See Note 4)

**PTFE OUTLINE AT BASE PLATE**  
1:1.5

**NOTES:**

1. Washer plate shall be ASTM A709 Grade 345, galvanized.
2. 55x55 hole required at standard/conduit post only.
3. PTFE at sliding plate washer shall match sliding plate washer dimensions.
4. PTFE at bottom of base plate shall match bottom of base plate dimensions.
5. PTFE at shim shall match shim dimensions.

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SHEET \_\_\_\_ OF \_\_\_\_

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**SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT**  
**SKYWAY CLEANUP ITEMS**  
**MODIFIED BIKEPATH RAILING DETAILS NO. 2**

Rev. Date: 5-18-98



CU 04  
EA 0120F1

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	11/04/11	747526R1	

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