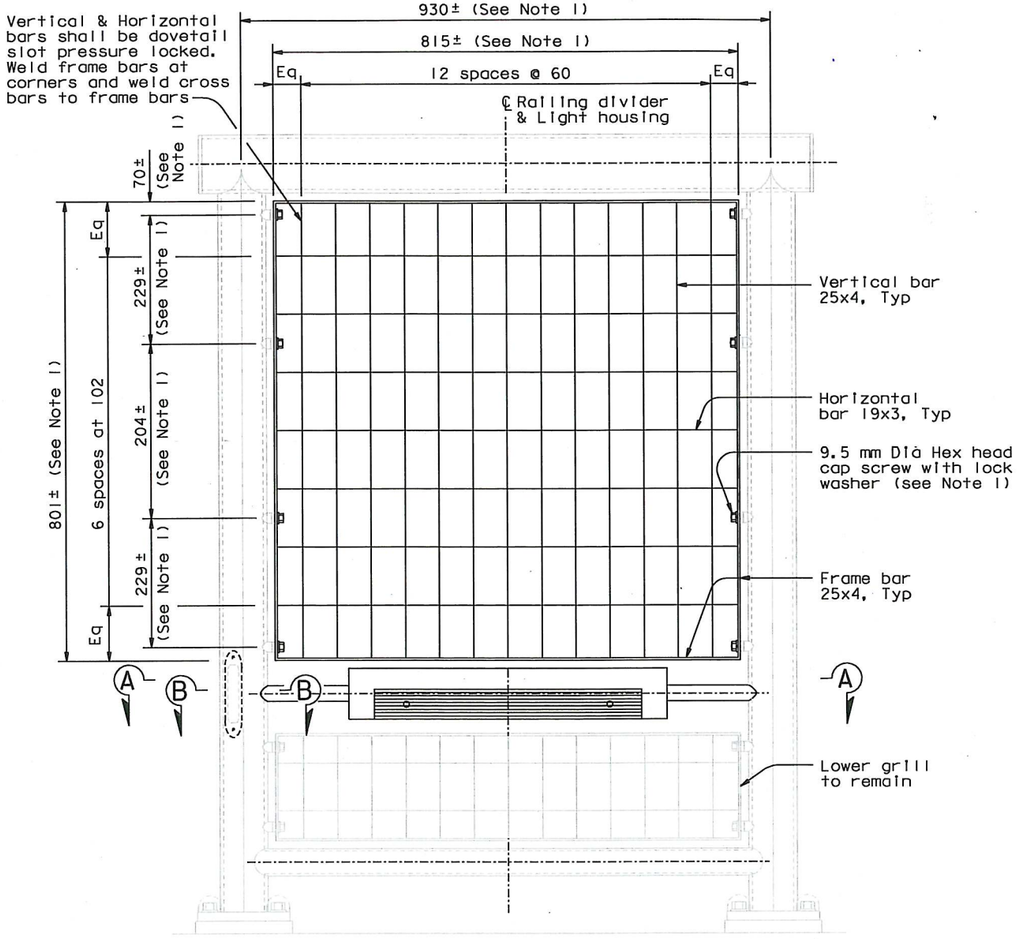
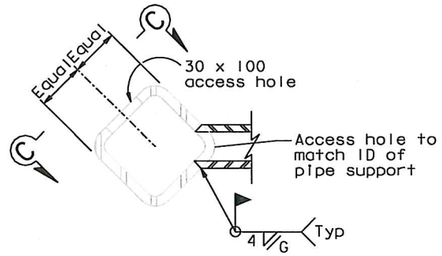


OAKLAND APPROACH STRUCTURES

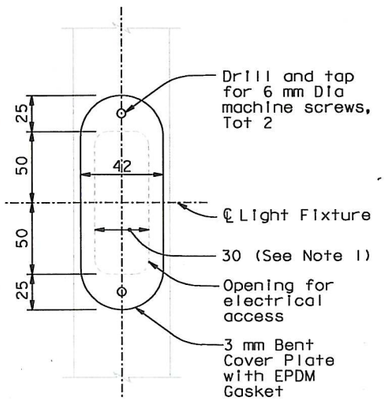
RAILING DIVIDER DETAIL

1:5



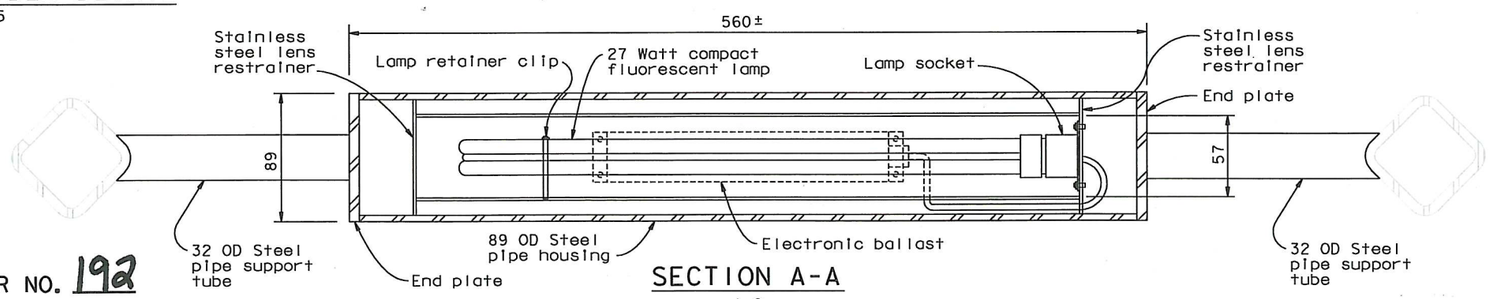
SECTION B-B

1:2



VIEW C-C

1:2



SECTION A-A

1:2

RAILING DIVIDER MODIFICATION PROCEDURE:

1. Remove and Install new upper railing grill.
2. Remove and Install new light housing.
3. Drill and tap holes, Install new access hole cover plates.
4. Galvanized surfaces shall be repaired. Areas with damaged paint or with no paint shall be cleaned and painted.

NOTES:

1. The Contractor shall field verify dimensions prior to fabrication.

CONTRACT CHANGE ORDER NO. 192

SHEET 2 OF 3

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF, Ala	80	13.9/14.3, 0.0/2.7	1165	1204

REGISTERED ENGINEER - CIVIL

Tien Hung Ho No. C 43990 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

06-22-11

PLANS APPROVAL DATE

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TWO HARRISON STREET
SAN FRANCISCO, CA 94105

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	06/22/11	OTD DIVIDER RAIL MODIFICATIONS	TH	JD	192

REVISIONS

W. Long, Y. Liu
DESIGN OVERSIGHT
SIGN OFF DATE 06/22/11

Rev. Date: 5-18-98

	BY	CHECKED
DESIGN	T. Ho	J. Duxbury
DETAILS	T. Ho	J. Duxbury
QUANTITIES	T. Ho	J. Duxbury

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

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

CU 04
EA 0120F1

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 06/22/11

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT

OAKLAND APPROACH STRUCTURES CLEANUP ITEMS

BIKEPATH RAILING DIVIDER

SHEET 748 OF

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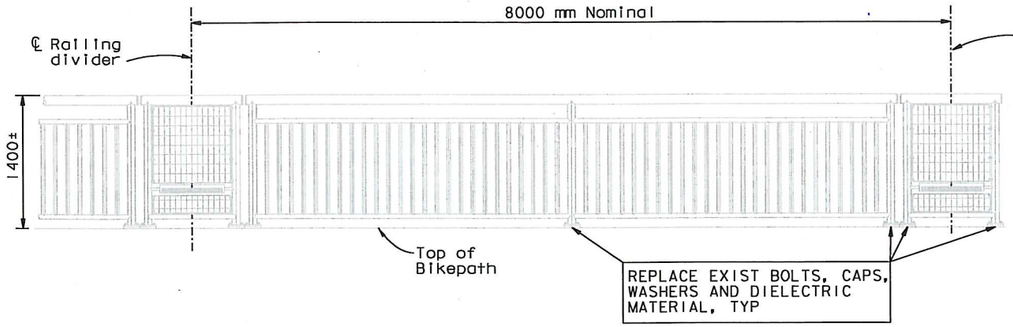
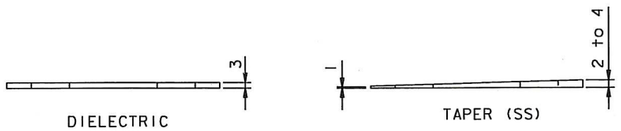


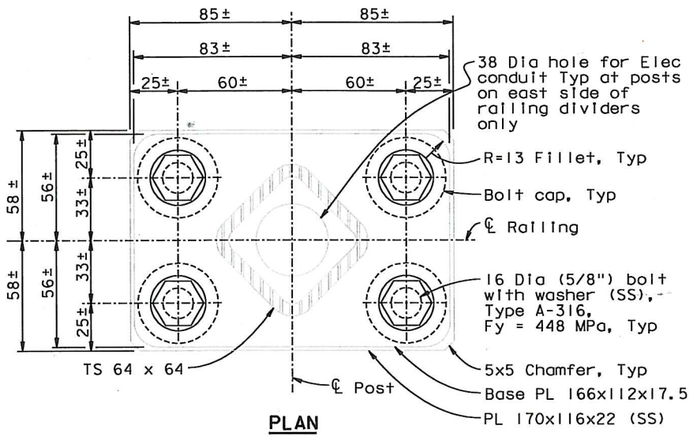
EXISTING BIKEPATH RAILING - TYPICAL ELEVATION

1:30

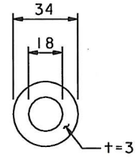


VIEW A-A

1:1.5

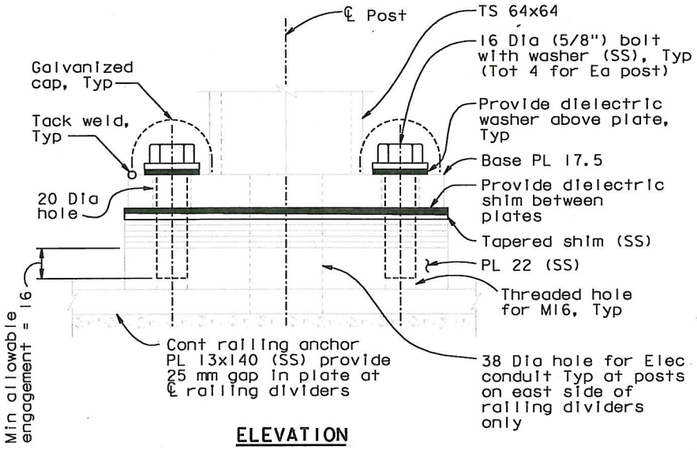


PLAN



DIELECTRIC WASHER

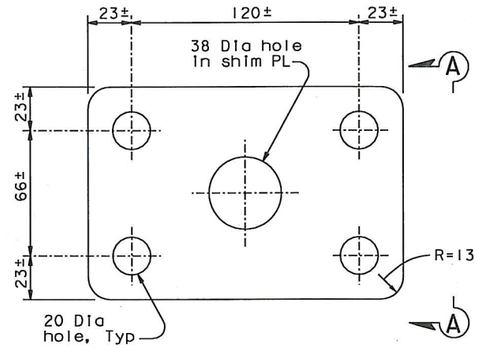
1:1.5



ELEVATION

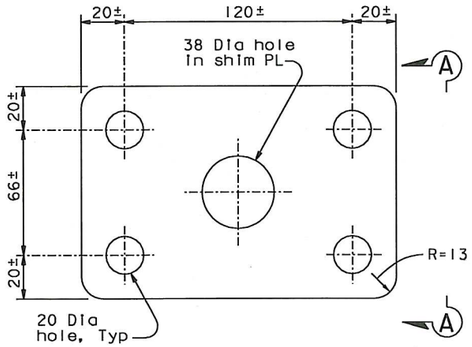
BOLT AND SHIM REPLACEMENT PROCEDURE:

1. Remove and discard bolt, cap and washer.
2. Remove and discard the dielectric material above and below the base plate.
3. Clean out and dry the threaded anchor hole.
4. If needed, replace the top most existing stainless steel standard shim with a new stainless steel tapered shim of thickness and taper necessary to properly align top rail of bikepath railing.
5. Install dielectric shim (UHMW) below base plate.
6. Install dielectric washer (UHMW) above base plate.
7. Insert new bolt, domed cap and washer. The length of the bolt shall be such that the engagement length into the PL 22 is a minimum of 16 mm.
8. Bolts shall be tightened to "Snug Tight Plus 1/4 Turn". Bolts shall be installed with thread locking compound.



SHIM DETAIL (See Note 3)

1:1.5



ALTERNATE SHIM DETAIL

1:1.5

TYPICAL EXISTING POST BASEPLATE

1:1.5

NOTES:

1. Bolt and shim replacement shall be performed on all railing divider posts and all standard railing posts on the North and South side bikepath railing.
2. The Contractor shall verify all controlling field dimensions before ordering or fabrication any material or performing any work that might thereby be affected.
3. The alternate shim dimensions shall be used as directed by the Engineer.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF, Ala	80	13.9/14.3, 0.0/2.7	1165SI	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL

08-26-11

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER James P.Duxbury No. C 64677 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

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CONTRACT CHANGE ORDER NO. 192
SHEET 3 OF 3

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

MARK	DATE	REVISIONS	BY	CH'D	CCO#
0	08/26/11	OTD DIVIDER RAIL MODIFICATION	JD	TH	192

	BY	CHECKED
DESIGN	J. Duxbury	T. Ho
DETAILS	A. Baumberger	T. Ho
QUANTITIES	A. Baumberger	T. Ho

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

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

SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT

OAKLAND APPROACH STRUCTURES CLEANUP ITEMS

HANDRAIL ADJUSTABILITY DETAILS

W. Long, Y. Liu
DESIGN OVERSIGHT
Wenyi Long / Y Liu
SIGN OFF DATE 08/26/11

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 → 08/26/11

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 748SI OF

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