



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	900S2R3	1204

Tien Hung Ho
REGISTERED ENGINEER - CIVIL

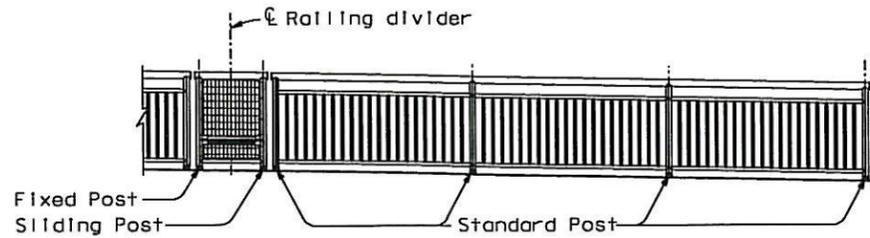
06-30-11

PLANS APPROVAL DATE

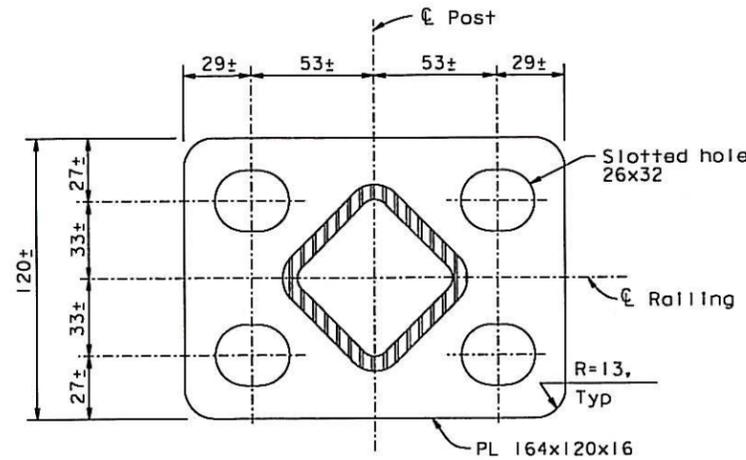
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

T.Y. LIN / MOFFATT & NICHOL
825 BATTERY STREET
SAN FRANCISCO, CA 94111

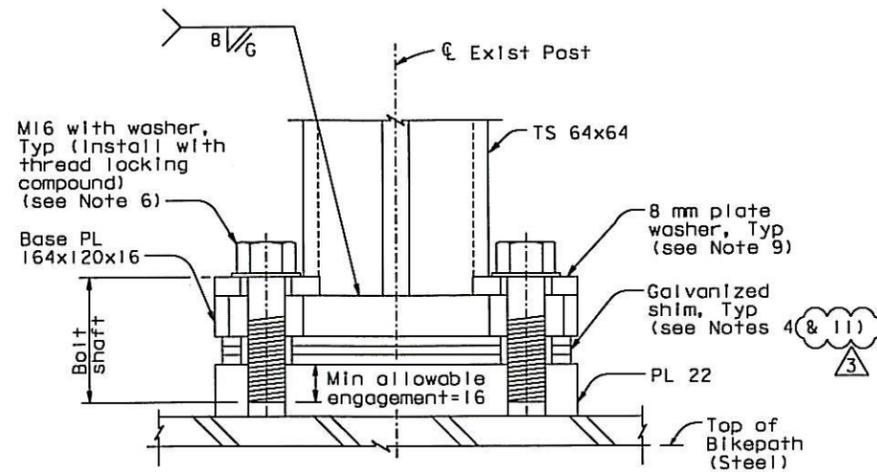
Calltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>



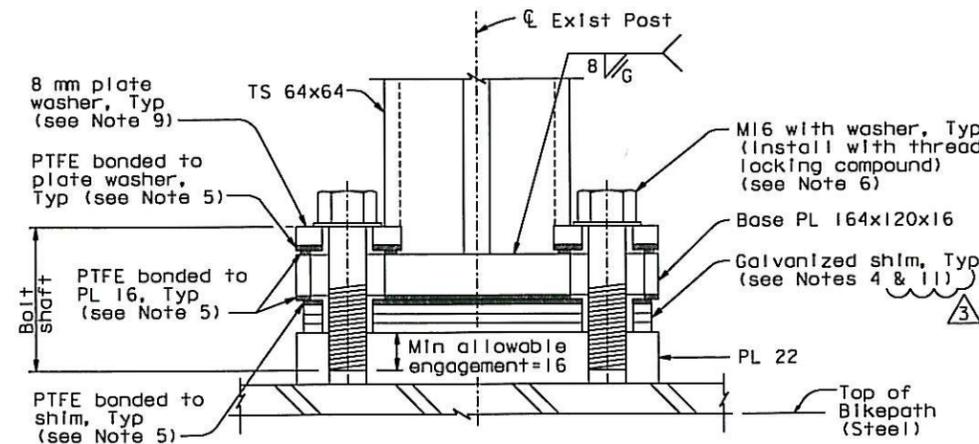
BIKEPATH RAILING - TYPICAL ELEVATION (Looking North)
1:50



POST BASEPLATE
1:1.5



SECTION AT FIXED POST
1:1.5



SECTION AT SLIDING POST
1:1.5

RECOMMENDED BOLT ALIGNMENT PROCEDURE:

1. Align sliding post with the bolts centered in the slots. Use sliding plate washer.
2. Align/adjust fixed post as required.
3. If the bolt in the fixed 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 fixed post is located to the outside (away from the post) of the slot, then use the outer plate washer.
5. Weld between post and post base may be ground to clear 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. Bolts on sliding post shall be tightened after load transfer is completed.
3. After load transfer, sliding post shall be aligned with the bolts centered in the slots (± 3 mm).
4. The Contractor may use shims as necessary to align top rail of bikepath railing. One shim may be tapered.
5. PTFE shall be unfilled virgin grade sheets, 1.5 to 2 mm thick. Use Reitek Bondit B-45TH 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 "Railing Details No. 3D" sheet.
6. All M16 bolts shall be new. Bolts on sliding posts shall be tightened to snug tight. Bolts on fixed posts shall be tightened to snug tight plus 1/4 turn. Thread locking compound to be applied after load transfer.
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.
9. Washer plate shall be ASTM A709 Grade 345, galvanized. For plate washer details, see "Railing Details No. 3D" sheet.
10. For details of Standard Post base, see "Railing Details No. 2" sheet.
11. Caulk shimmed surfaces with Sikaflex 1a or equivalent to achieve a smooth surface between shim and base plate, as directed by the Engineer.



REVISION $\Delta 2$ SUPERSEDES REVISIONS $\Delta 1$ & $\Delta 1$

CONTRACT CHANGE ORDER NO. 16951
SHEET 2 OF 2

ARCHITECTURAL ALIGNMENT ADJUSTABILITY DETAILS

MARK	DATE	DESCRIPTION	BY	CH'D	CCO*
$\Delta 1$	04/12/13	BIKEPATH HANDRAIL MODIFICATIONS	AB	JD	16951
$\Delta 2$	12/16/11	BIKEPATH HANDRAIL MODIFICATIONS	DT	JD	169
$\Delta 3$	08/05/11	BIKEPATH HANDRAIL MODIFICATIONS	TH	MN	169
$\Delta 4$	06/30/11	BIKEPATH HANDRAIL MODIFICATIONS	TH	MN	169

DESIGN	BY T. Ho	CHECKED M. Nader
DETAILS	BY T. Ho	CHECKED M. Nader
QUANTITIES	BY T. Ho	CHECKED M. Nader

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

BRIDGE NO.	34-0006L/R
KILOMETER POST	13.2/13.9
RAILING DETAILS NO. 3B	

FOR REVISIONS $\Delta 2$ & $\Delta 3$ ONLY

R. Vahidzadeh/V. Toon/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Rgn Vahidzadeh / Veng Toon / Y. Liu
SIGN OFF DATE 04/12/13

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)

SHEET 48352R3

FILE => L:\BB\04-012001\SAS\Contract Plans and CCO\CCO\CCO\16951\1-Original 04-12-13\VDGN\akr\lg04b.dgn

100% P&E TIME PLOTTED => 10/07/14 DATE PLOTTED => 12 APR 2013 USERNAME => DWIT/ROW