NOTES:

1. See "Test Rig Details No.3" sheet for Details and Notes of existing Test Rig #1 thru #4.
2. See "Test Rig Details No.30" sheet for pre-use inspection and modification procedure notes.
3. Top Doubler PL 25x200 Dia shall be removed by grinding off existing welds.
4. For coupler detail, see "Test Rig Details No.6" sheet. Couplers for ungalvanized rods shall not be tapped oversized.
5. For Detail E, see "Test Rig Details No.30" sheet.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	888529	1204

REGISTERED ENGINEER - CIVIL

Marwan N. Nader
No. C 054426
Exp. 12/31/15
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

04-23-14
PLANS APPROVAL DATE

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825 BATTERY STREET
SAN FRANCISCO, CA 94111

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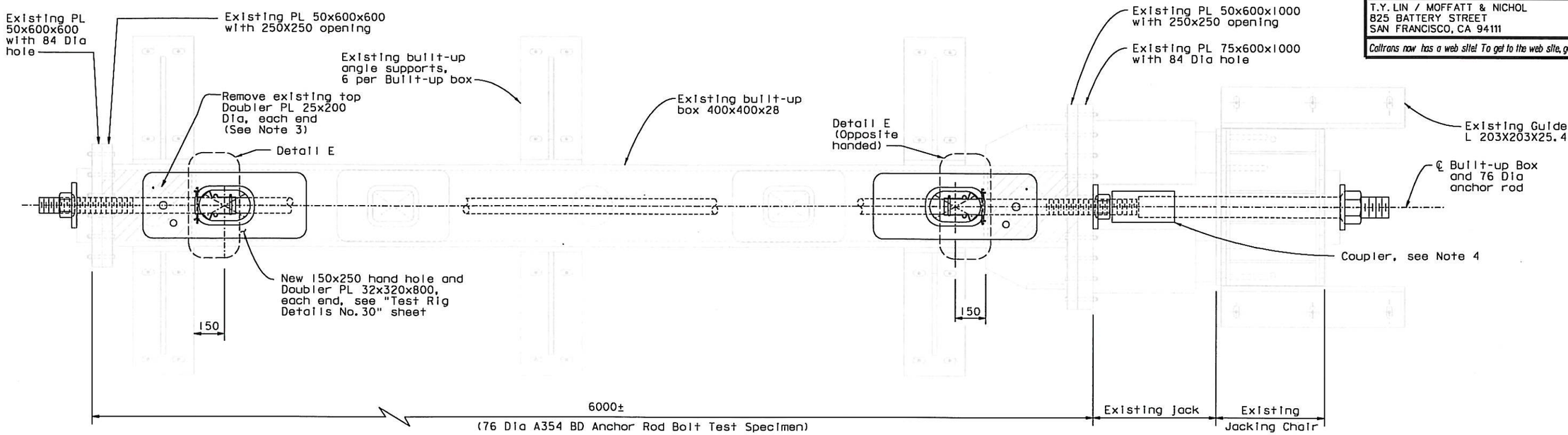
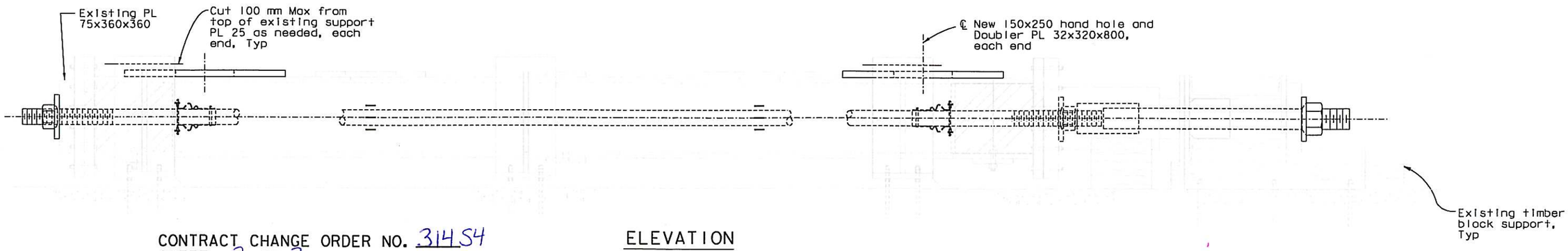


LAYOUT PLAN - TEST RIGS #14, 15, 16, 17
(MODIFIED FROM TEST RIGS #1, 2, 3, 4)

1:10



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CONTRACT CHANGE ORDER NO. 31454
SHEET 2 OF 3

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

A. Akinsanya / W. Lang
DESIGN OVERSIGHT
SIGN OFF DATE 04/23/14

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
0	04/23/14	PIER E2 ROD TESTING	CC	MN	31454

REVISIONS

	BY		CHECKED	
DESIGN	C. Chol		N. Va	
DETAILS	G. Mok		J. Denis	
QUANTITIES	G. Mok		J. Denis	

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

M. Nader
PROJECT ENGINEER

BRIDGE NO.	34-0006L/R
KILOMETER POST	13.2/13.9

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

TEST RIG DETAILS NO. 29

Rev. Date: 5-22-13

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): 04/23/14

SHEET 471529 OF

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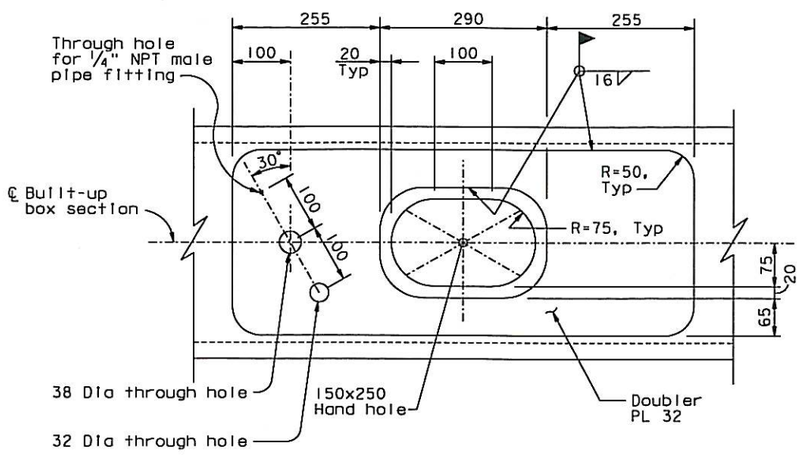
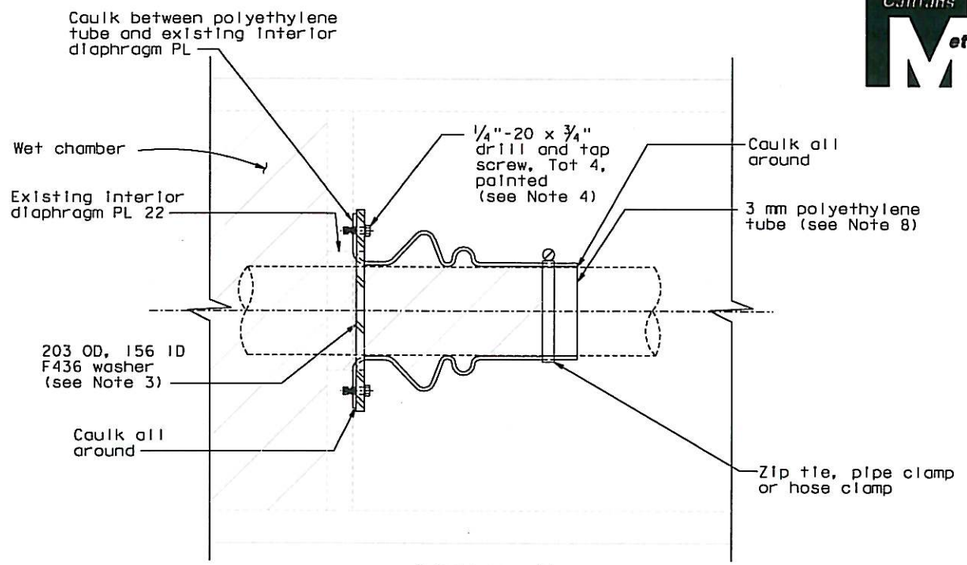


ADDITIONAL HAND HOLE AND DOUBLER PL DETAIL (Jacking end opposite handed)

1:5



DETAIL E

1:2.5

PRE-USE INSPECTION ON EXISTING TEST RIGS #1 THRU #4 AND HARDWARE:

Prior to re-using the existing test rigs, the existing test rigs and jacking chairs shall be inspected for:

a. Surface damage/ defects on structural steel.
b. Perform 100% VT on all fillet, PJP, and CJP welds.
c. For welds between the end PL's 50 and the built-up box, where accessible, perform 100% MT.
d. For welds between the support PL's 25 and the built-up box, where accessible, perform 10% MT.
e. Inspect and report to the Engineer the out-of-squareness of end PL's relative to the built-up box, before and after the fabrication of new hand holes, and Doubler PL's. Out-of-squareness tolerance shall be 0.01 radian.
f. Re-use of hardwares for Test Rigs #14, #15, #16, and #17 is contingent on the Engineer's review and approval.
   At a minimum:

   - Perform 100% VT and 100% MT on both threaded and unthreaded portions of the existing jacking rods
   - Perform 100% VT, using boroscope as needed, on couplers, nuts, and washers for cracks, thread striping, and other damage.
   - Additional inspection and information may be required by the Engineer based on inspection findings.

TEST-RIG MODIFICATION PROCEDURE:

1. Fabricate new hand holes.
2. Grind off existing top Doubler PL 25x200 Dia.
3. Grind flush existing weld crowns under footprint of new doubler plates.
4. Weld on new doubler plates.
5. Drill/ tap new holes for instrumentation.
6. Caulk-seal and paint all existing instrumentation holes.
7. Clean and remove all rust stains inside the wet chambers.
8. Repair damaged paint on all interior wetted surfaces of the wet chambers, including inside of holes. Surface preparation and application procedure shall be per manufacturer's recommendations.
9. The Contractor may sequence the above work according to his means and methods.

NOTES:

1. STRUCTURAL STEEL notes on "Test Rig Detail No. 1 sheet" apply.
2. Preparation of new hand holes shall be in accordance with AWS D1.1/ D1.1M: 2002, Section 5.15, as applicable.
3. At the Contractor's option, structural steel conforming to ASTM A36/A36M (Fy=250 MPa) of the same dimensions may be used.
4. At the Contractor's option, thru bolt may be used in lieu of drill and tap screw, subject to review and approval by the Engineer.

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REGISTERED ENGINEER - CIVIL

04-23-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Marwan N. Nader — No. C 054426 — Exp. 12/31/15 — CIVIL — STATE OF CALIFORNIA

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CONTRACT CHANGE ORDER NO. 314S4
SHEET 3 OF 3

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
0	04/23/14	PIER E2 ROD TESTING	CC	MN	314S4

REVISIONS

A. Akinsanya / W. Long
DESIGN OVERSIGHT
SIGN OFF DATE 04/23/14

	BY		CHECKED	
DESIGN	C. Chai		CHECKED	N. Vo
DETAILS	G. Mok		CHECKED	J. Denis
QUANTITIES	G. Mok		CHECKED	J. Denis

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Nader
PROJECT ENGINEER

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

CU 04
EA 0120F1

BRIDGE NO. 34-0006L/R
KILOMETER POST 13.2/13.9

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 04/23/14

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

TEST RIG DETAILS NO. 30

SHEET 471S30 OF

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Rev. Date: 5-22-13

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