DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	825R7	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

Tien Hung Ho
No. C 43990
Exp. 6/30/13
CIVIL
STATE OF CALIFORNIA

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

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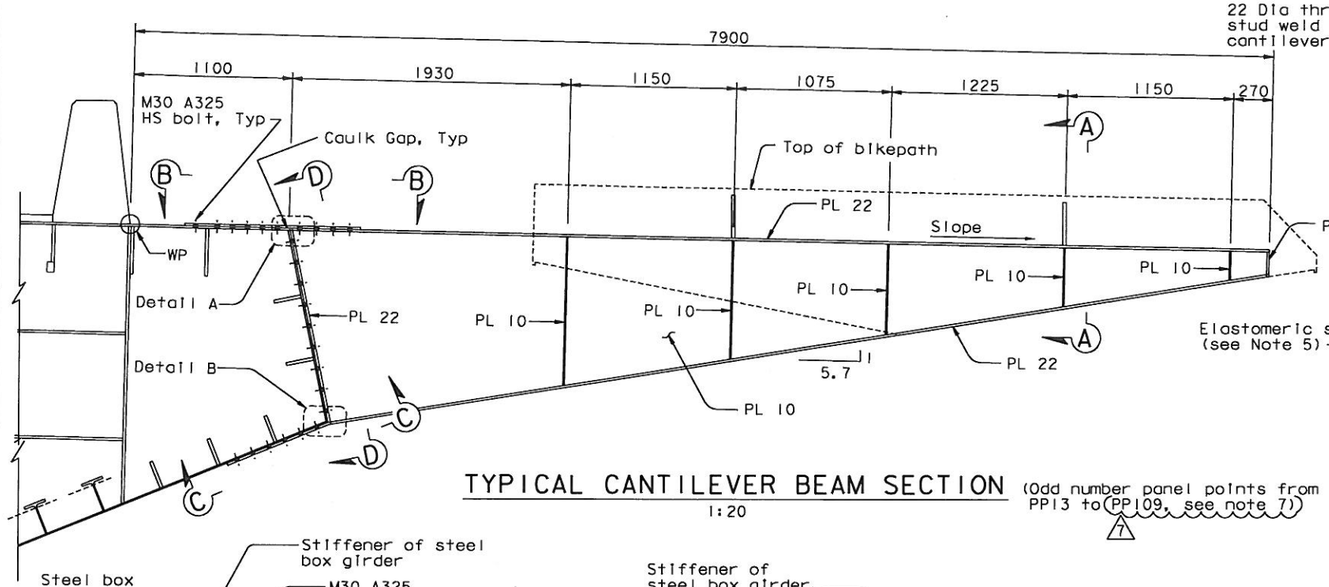
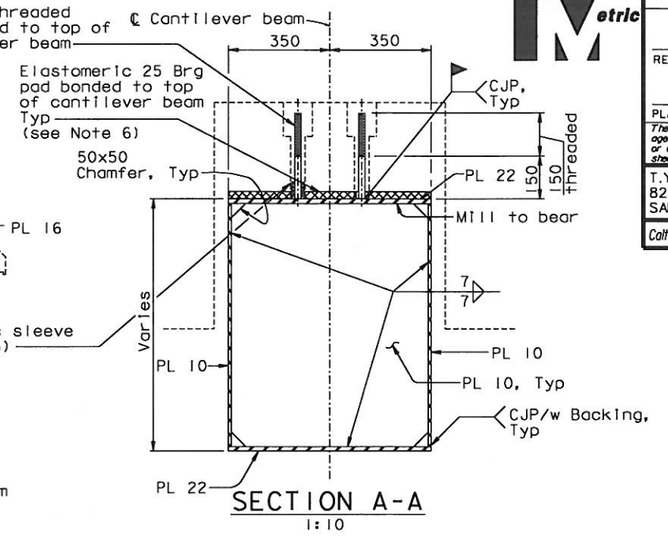


TYPICAL CANTILEVER BEAM SECTION
1:20

(Odd number panel points from PP13 to PP109, see note 7)



SECTION A-A
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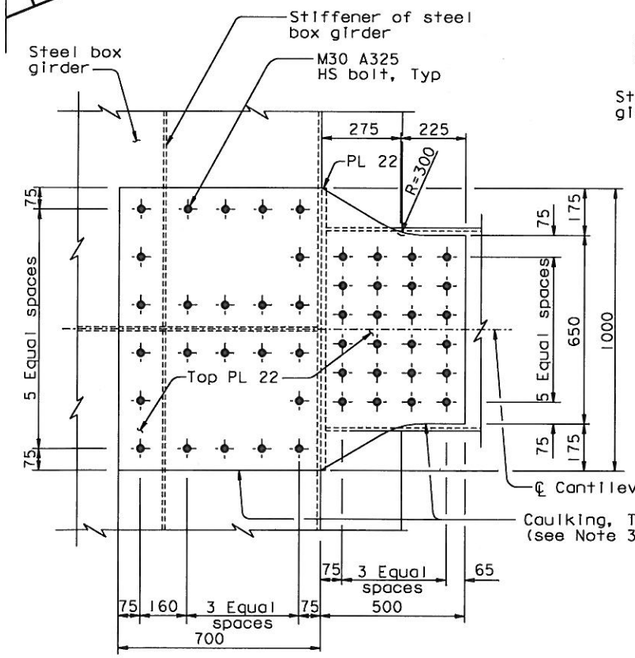

SECTION B-B
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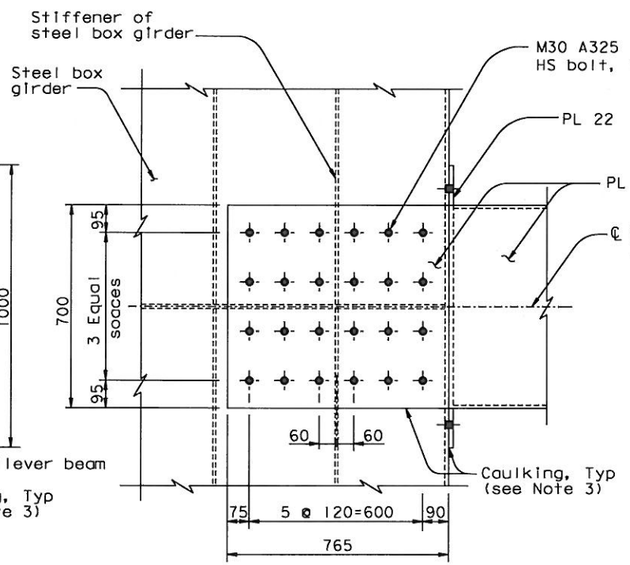
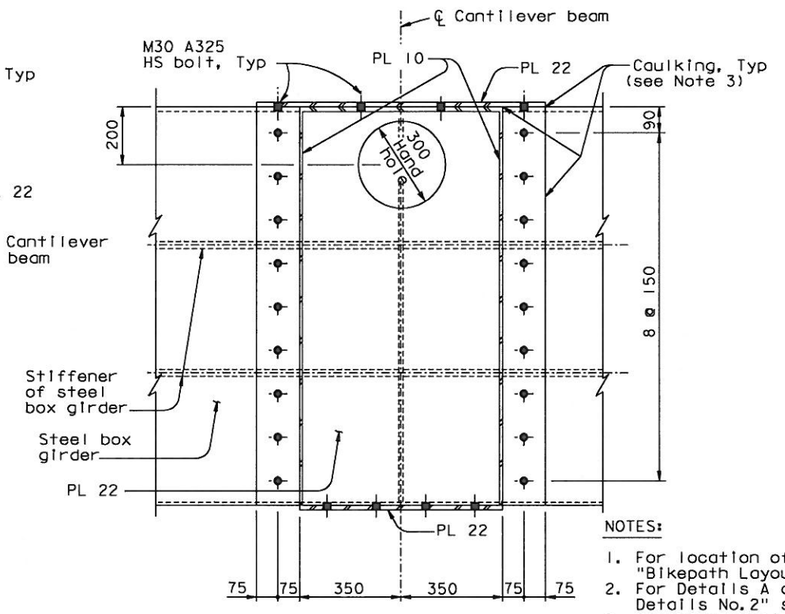


SECTION C-C
1:10



SECTION D-D
1:10

NOTES:

1. For location of typical cantilever beam, see "Bikepath Layout" sheets.
2. For Details A and B, see "Suspender Bracket Details No. 2" sheet.
3. Caulking shall be provided along all edges of bolted connection between bikepath cantilever beam and box girder.
4. Note deleted.
5. For elastomeric sleeve detail, see "Bikepath Details No. 4A" sheet.
6. For leveling shim details at stud locations, see "Bikepath Details No. 23" sheet.
7. For details at PP111, see "Bikepath Details No. 1A" sheet.

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
7	10/12/12	CANTILEVER BEAM MODIFICATIONS	GB	TH	233
6	08/17/12	BIKEPATH LEVELING	AB	TH	228SI
5	08/10/11	BIKEPATH PAD REVISIONS	GB	TH	211
4	01/25/11	BIKEPATH STUD ISSUE	CC	TH	186
3	08/20/10	BIKEPATH DETAILS	TH	CC	99
2	07/07/08	CAULKING	AS	TH	66
1	07/20/07	BIKEPATH BRACKETS	GB	TH	33

CONTRACT CHANGE ORDER NO. 233
SHEET 2 OF 8

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 10/12/12

	BY	CHECKED
DESIGN	T. Ho	T. McMeans
DETAILS	R. Xu	P. Ritchie
QUANTITIES	C. Bernardo	S. Shi

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
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)

BIKEPATH 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): 05/15/98 09/28/99 05/31/01 04/30/02 07/30/02 12/15/02 11/13/03

SHEET 408R7 OF

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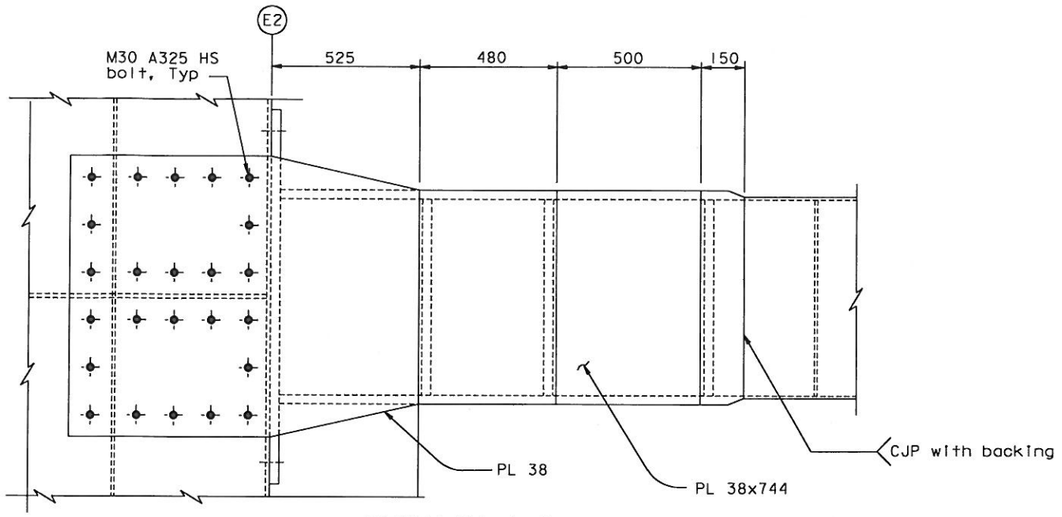

SECTION A-A

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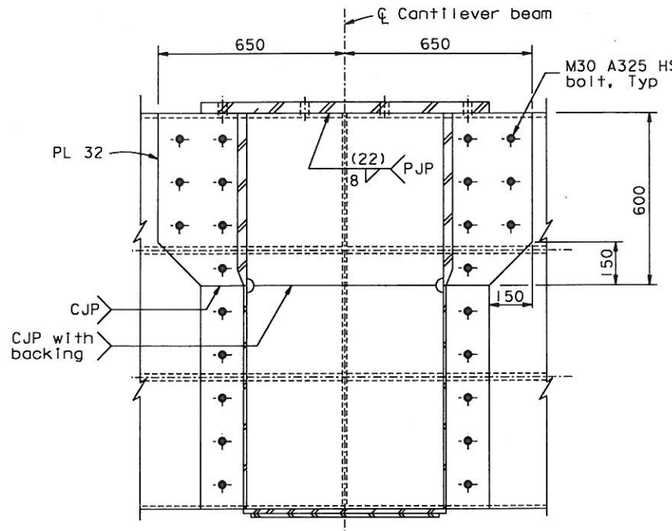

SECTION B-B

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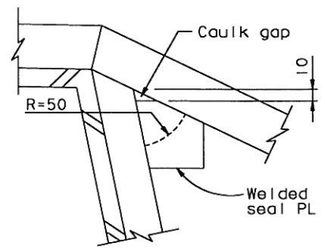
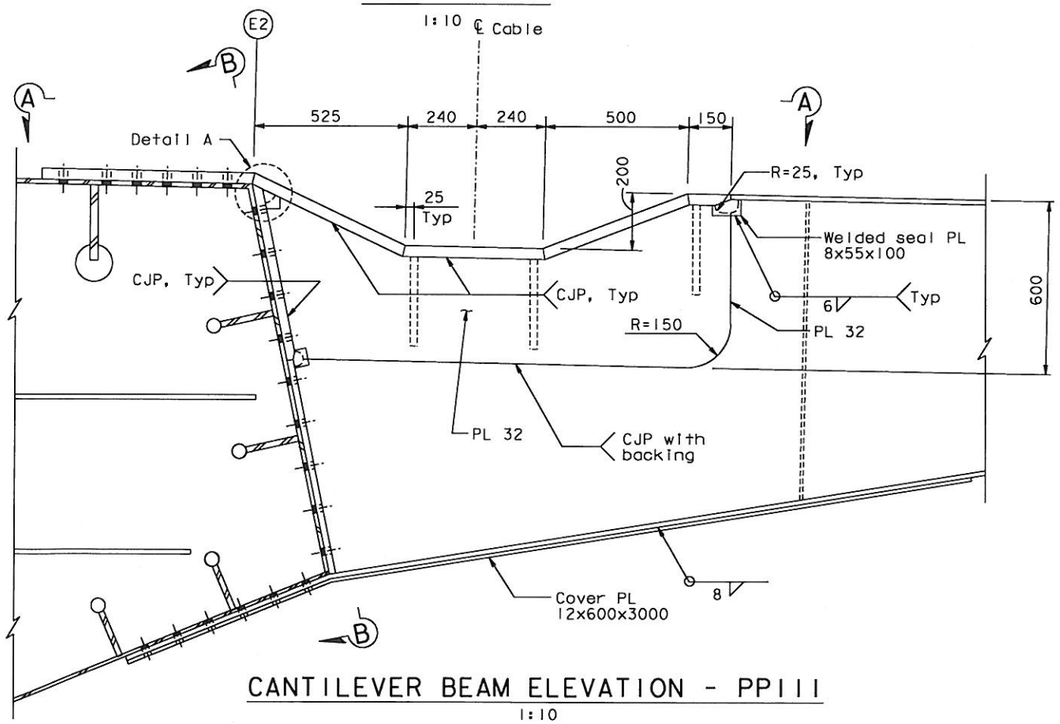


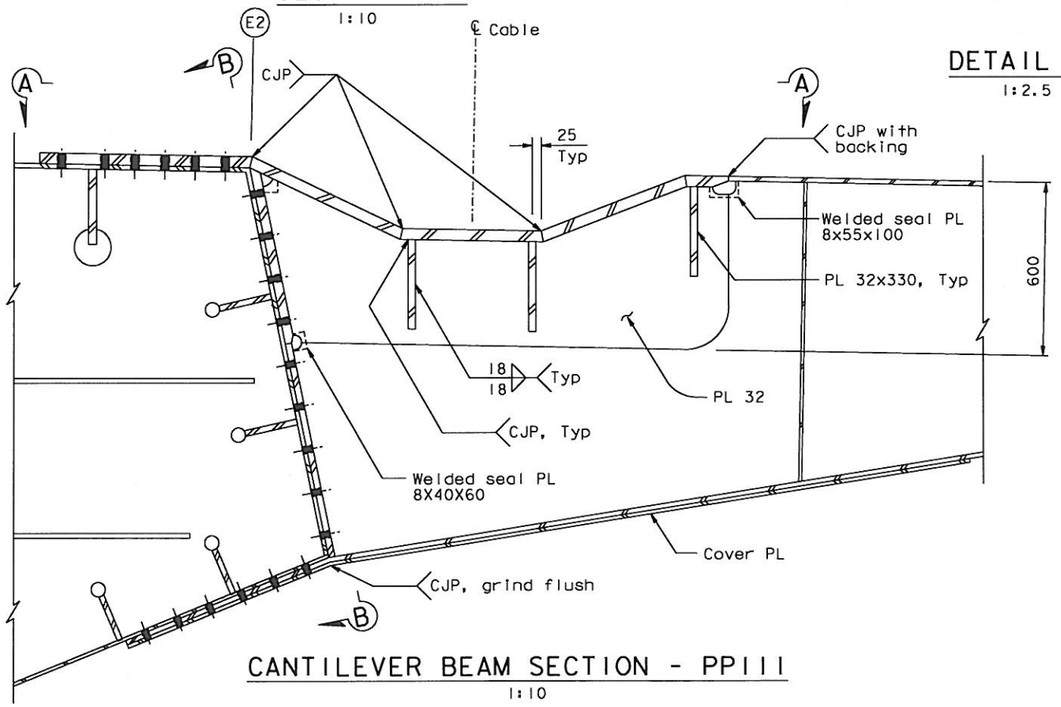
DETAIL A

1:2.5



CANTILEVER BEAM ELEVATION - PPIII

1:10



CANTILEVER BEAM SECTION - PPIII

1:10

NOTES:

1. For details not shown, see "Bikepath Details No.1" sheet.

CONTRACT CHANGE ORDER NO. 233
SHEET 3 OF 8

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	825SI	1204

REGISTERED ENGINEER - CIVIL

10-12-12
PLANS APPROVAL DATE

Marwan N. Nader
No. C 054426
Exp. 12/31/13
CIVIL
STATE OF CALIFORNIA

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MARK	DATE	REVISIONS	BY	CH'D	CCO#
0	10/12/12	CANTILEVER BEAM MODIFICATIONS	GB	MN	233

	BY	CHECKED
DESIGN	G. Baker	M. Nader
DETAILS	G. Baker	M. Nader
QUANTITIES	G. Baker	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

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

BIKEPATH DETAILS NO. 1A

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 10/12/12

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): 10/12/12

SHEET 408SI OF

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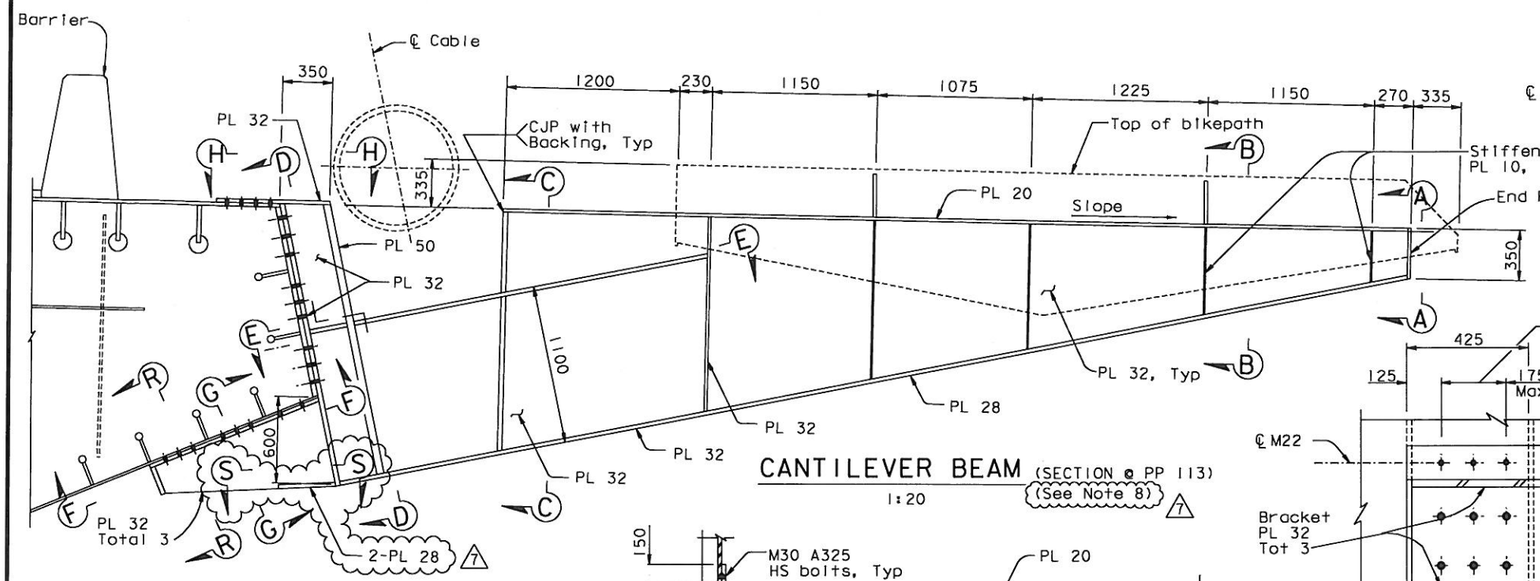
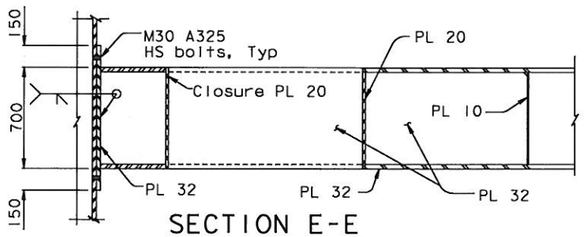


CANTILEVER BEAM (SECTION ⌀ PP 113) (See Note 8) 7

1:20



SECTION E-E

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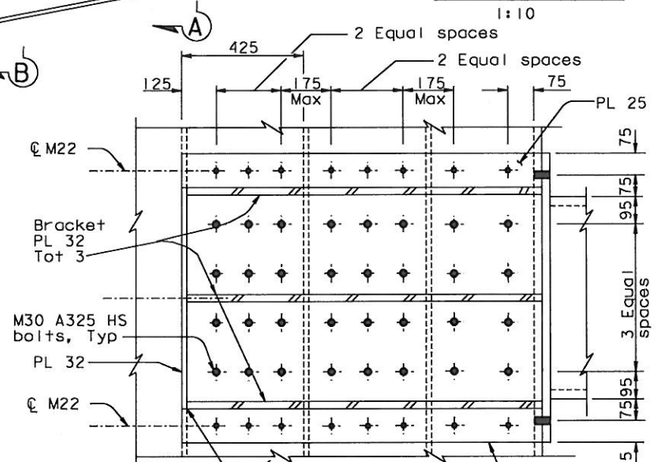

SECTION F-F

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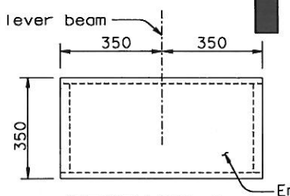

SECTION A-A

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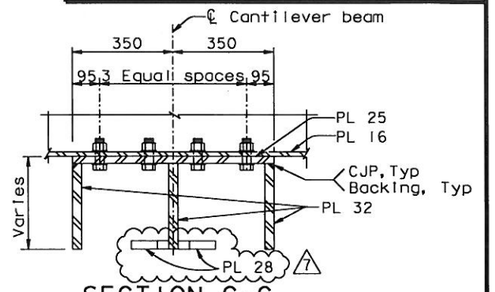

SECTION G-G

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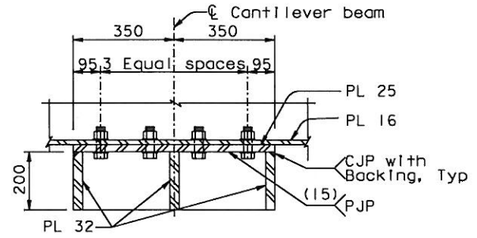

SECTION R-R

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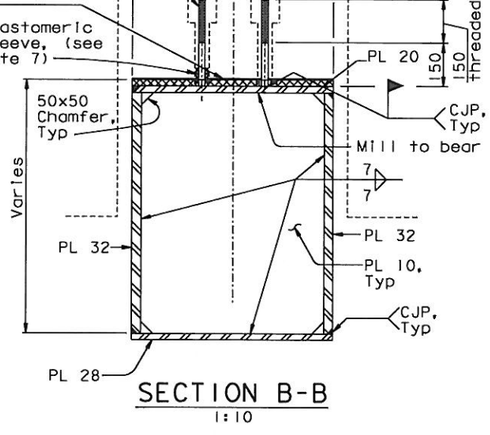

SECTION B-B

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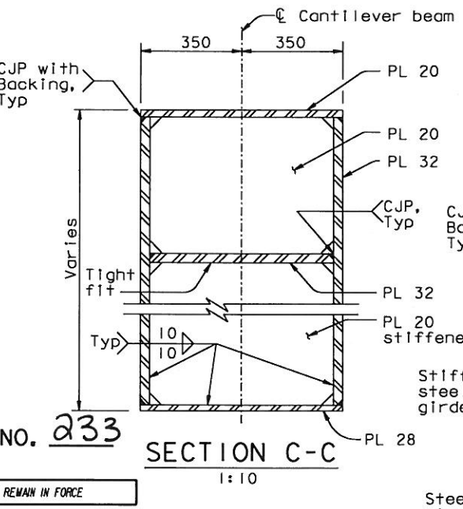
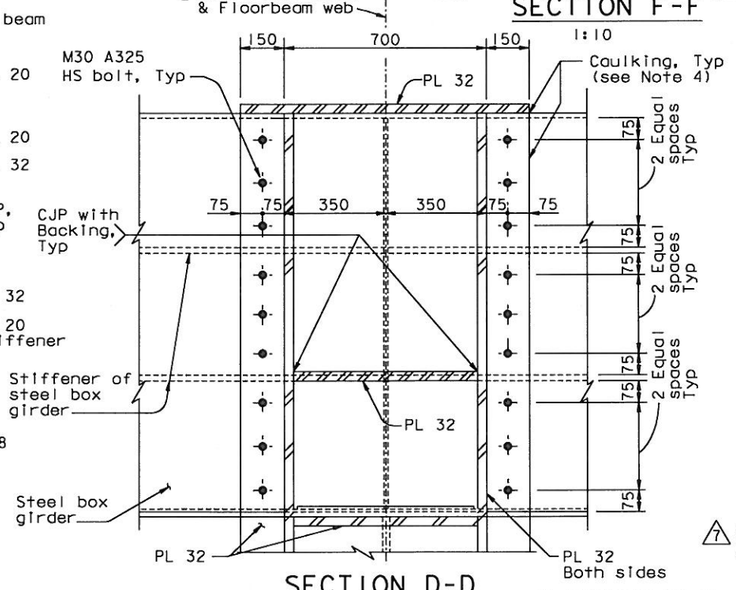


SECTION C-C

1:10



SECTION D-D

1:10

NOTES:

1. The cable location shown is based on the information provided in "Suspension Cable Layout" sheets. The Contractor shall verify these locations based on the "as built" cable profile described in "Construction Sequence" sheets. In the event of a conflict, bikepath bracket details may be revised and submitted to the Engineer for review and approval.
2. Bikepath deck similar to typical bikepath deck, for details, see "Bikepath Details No.3" sheets.
3. For Section H-H, see Section F-F of "Bikepath Details No.11" sheet.
4. Caulking shall be provided along all edges of bolted connection between bikepath cantilever beam and box girder.
5. Note deleted.
6. Note Deleted.
7. For elastomeric sleeve detail, see "Bikepath Details No.4A" sheet.
8. For Section S-S, see "Bikepath Details No.13A" sheet.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

CONTRACT CHANGE ORDER NO. 233
SHEET 4 OF 8

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	REVISIONS	BY	CH'D	CCO#
7	01/20/12	BIKEPATH CANTILEVER BEAM MODIFICATIONS	DT	TH	233
6	08/10/11	BIKEPATH PAD REVISIONS	GB	TH	211
5	01/25/11	BIKEPATH STUD ISSUE	TH	CC	186
4	08/20/10	BIKEPATH DETAILS	TH	CC	99
3	12/23/08	BIKEPATH DETAILS	TH	MN	99
2	07/07/08	CAULKING	AS	TH	66
1	07/20/07	BIKEPATH BRACKETS	GB	TH	33

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	834R7	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — Tien Hung Ho — No. C 43990 — Exp. 6/30/13 — CIVIL — STATE OF CALIFORNIA

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DATE PLOTTED => 20 JAN 2012
USERNAME => DWinrow

R. Vallizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 01/20/12

	BY	CHECKED
DESIGN	T. Ho	T. McMeans
DETAILS	R. Xu	P. Ritchie
QUANTITIES	C. Bernardo	S. Shi

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

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

CU 04
EA 0120F1

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

BIKEPATH DETAILS NO. 10

Rev. Date: 5-18-98

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 05/27/11 | 04/06/12 | 07/27/12 | 12/19/12

SHEET 417R7 OF

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	835R5	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER * Tien Hung Ho * No. C 43990 * Exp. 6/30/13 * CIVIL * STATE OF CALIFORNIA

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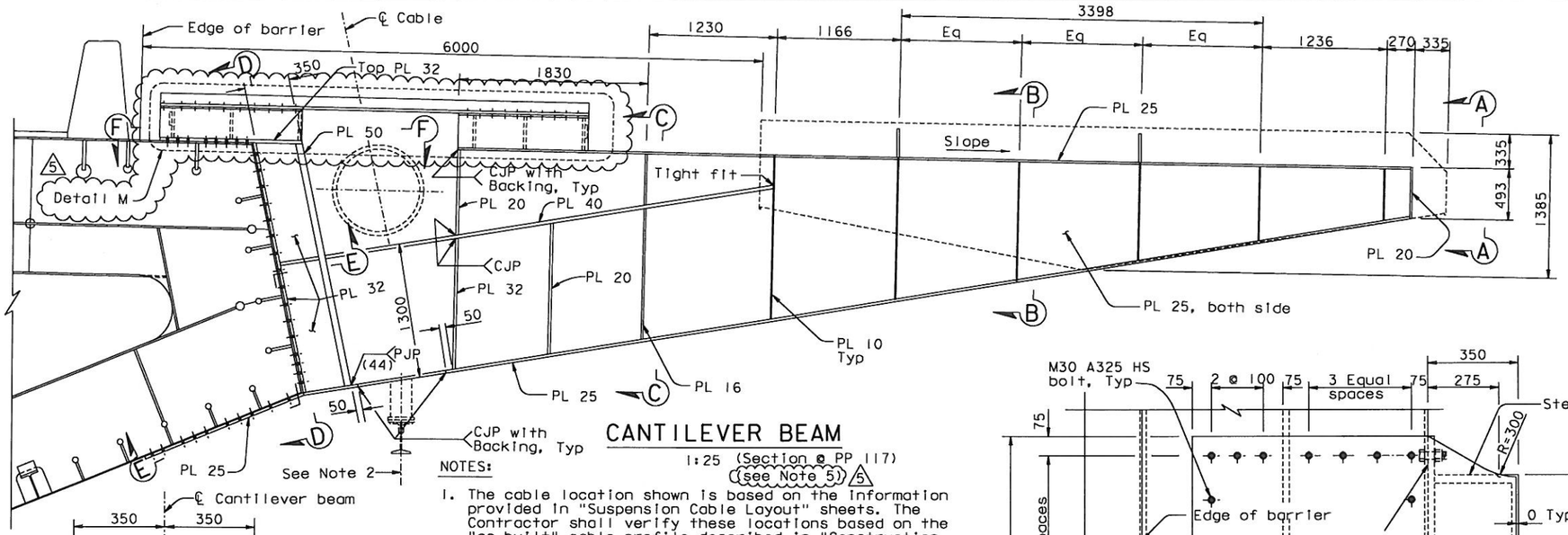
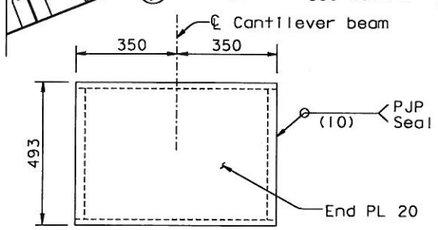


CANTILEVER BEAM

1:25 (Section @ PP 117) (see Note 5) 5

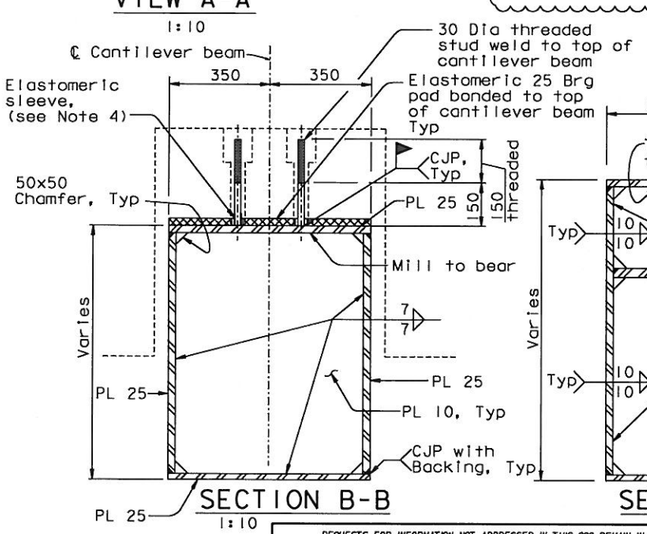
NOTES:

1. The cable location shown is based on the information provided in "Suspension Cable Layout" sheets. The Contractor shall verify these locations based on the "as built" cable profile described in "Construction Sequence" sheets. In the event of a conflict, bikepath bracket details may be revised and submitted to the Engineer for review and approval.
2. For location and details of traveler rail support, see "Traveler Rail Details No.13" sheet.
3. Caulking shall be provided along all edges of bolted connection between bikepath cantilever beam and box girder.
4. For elastomeric sleeve detail, see "Bikepath Details No.4A" sheet.
5. 5 For Detail M, see "Bikepath Details No.13A" sheet.



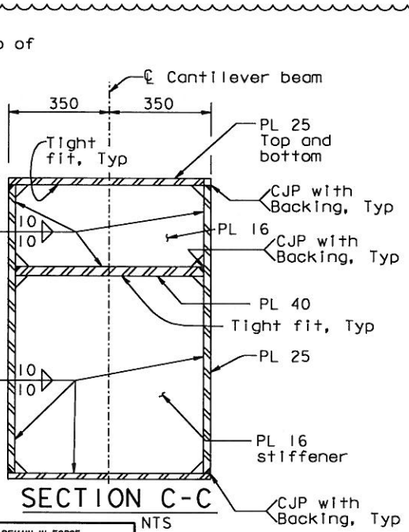
VIEW A-A

1:10



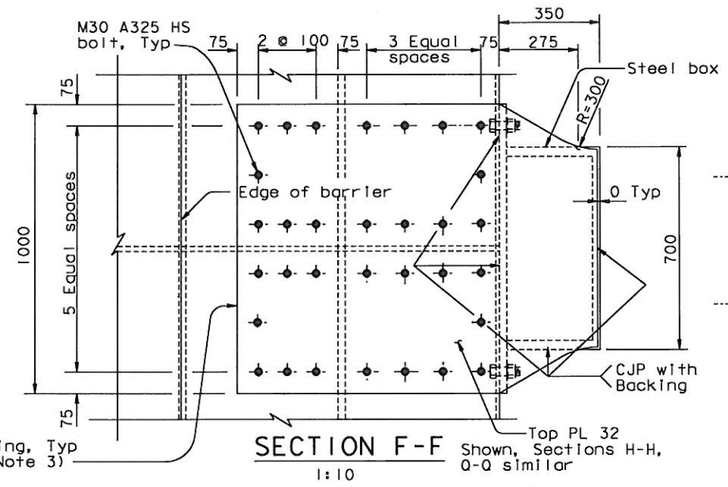
SECTION B-B

1:10



SECTION C-C

NTS



SECTION F-F

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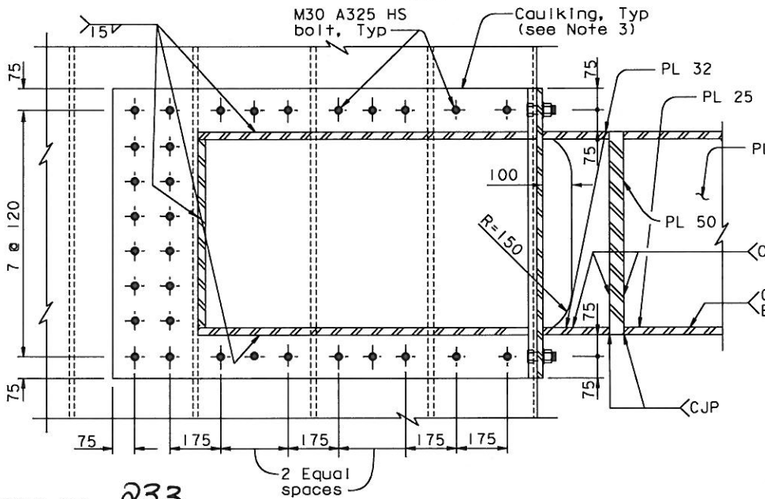
Shown, Sections H-H, Q-Q similar



SECTION E-E

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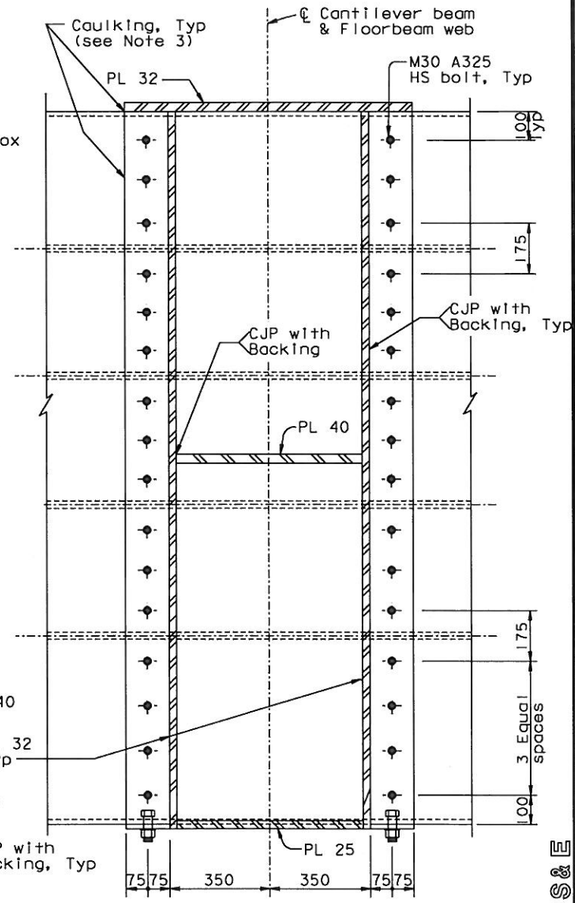

SECTION D-D

1:10

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
5	01/20/12	BIKEPATH CANTILEVER BEAM MODIFICATIONS	DT	TH	233
4	01/25/11	BIKEPATH STUD ISSUE	TH	CC	186
3	08/20/10	BIKEPATH DETAILS	TH	CC	99
2	07/07/08	CAULKING	AS	TH	66
1	07/20/07	BIKEPATH BRACKETS	GB	TH	33

CONTRACT CHANGE ORDER NO. 233
SHEET 5 OF 8

	BY	CHECKED
DESIGN	T. Ho	T. McMeans
DETAILS	R. Xu	P. Ritchie
QUANTITIES	C. Bernardo	S. Shi

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
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)

BIKEPATH DETAILS NO. 11

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 01/20/12

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): 05/24/01 | 04/26/02 | 07/26/02 | 12/13/02 | 11/13/05

SHEET 418R5 OF

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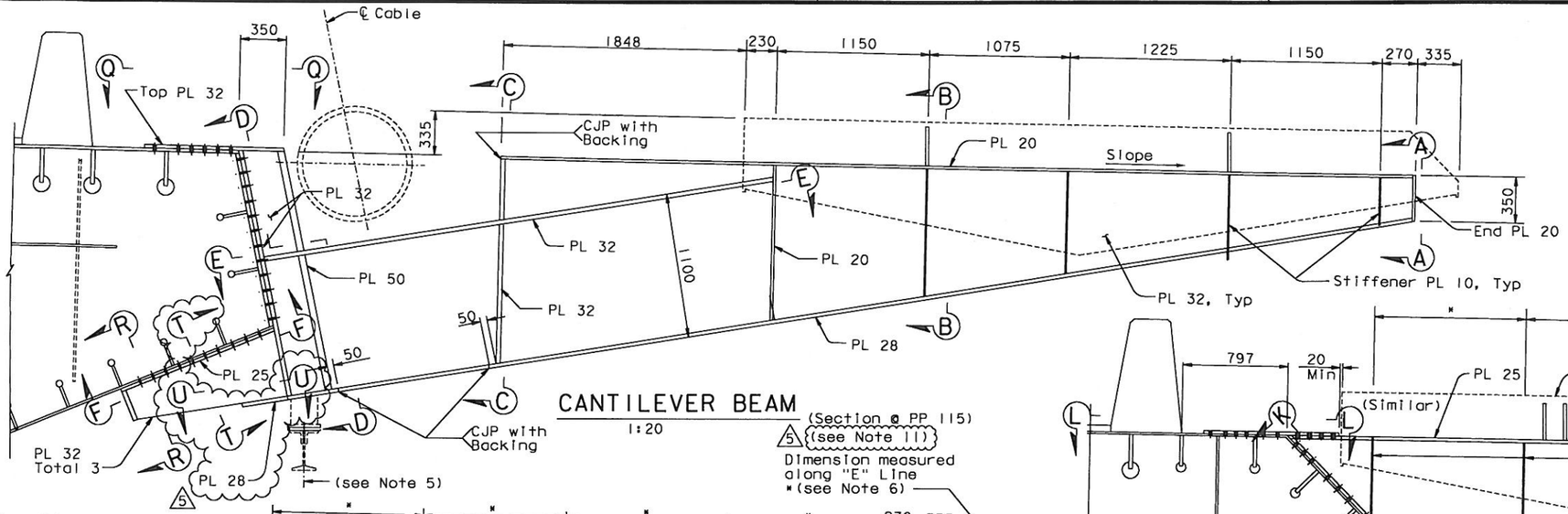
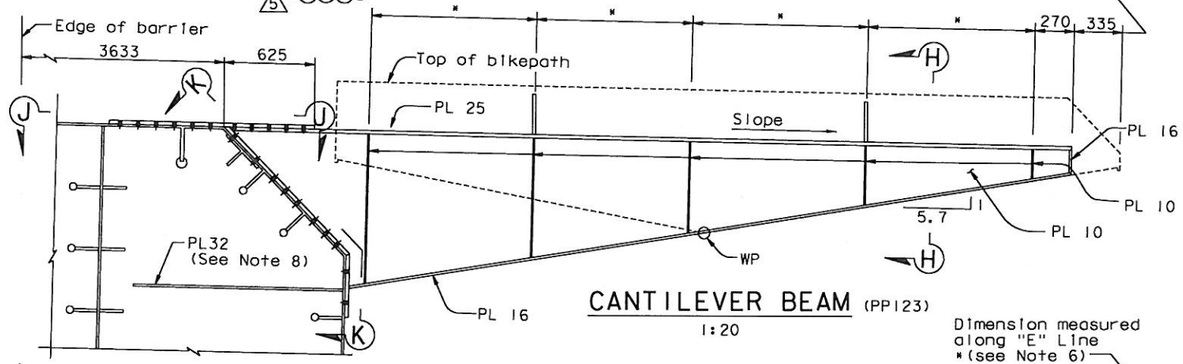
USERNAME => DWinrow DATE PLOTTED => 20 JAN 2012 TIME PLOTTED => 11:51:33

100 % PS&E

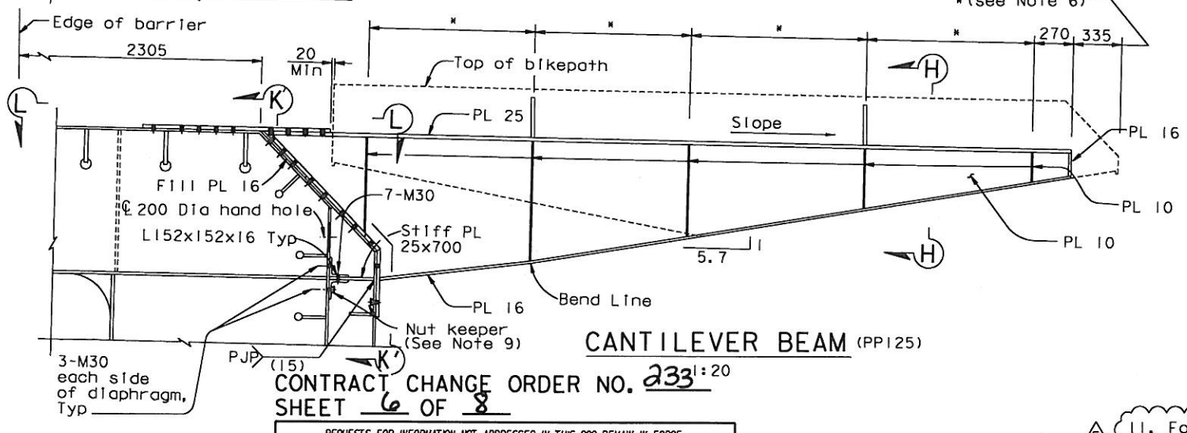


CANTILEVER BEAM
1:20

(Section @ PP 115)
5 (see Note 11)
Dimension measured along "E" Line
*(see Note 6)



CANTILEVER BEAM (PP123)
1:20



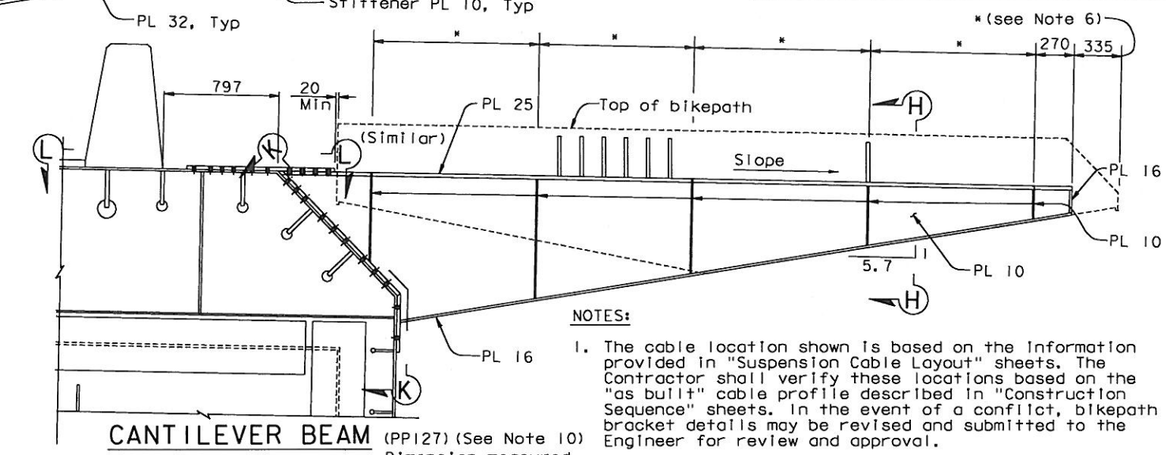
Dimension measured along "E" Line
*(see Note 6)

CANTILEVER BEAM (PP125)
1:20

CONTRACT CHANGE ORDER NO. 233
SHEET 6 OF 8

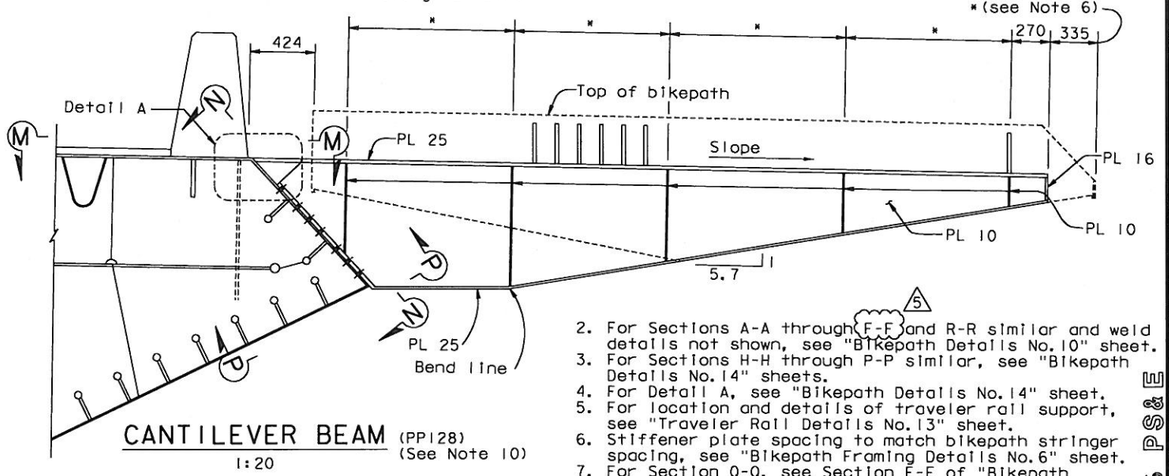
REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	REVISIONS	BY	CH'D	CCO#
5	01/20/12	BIKEPATH CANTILEVER BEAM MODIFICATIONS	DT	TH	233
4	08/20/10	BIKEPATH DETAILS	CC	TH	99
3	10/23/09	BIKEPATH DETAILS	TH	MN	99
2	11/26/08	BIKEPATH DETAILS	TH	MN	99
1	07/20/07	BIKEPATH BRACKETS	GB	TH	33



CANTILEVER BEAM (PP127) (See Note 10)
1:20

Dimension measured along "E" Line



CANTILEVER BEAM (PP128) (See Note 10)
1:20

Dimension measured along "E" Line

5 11. For Sections T-T & U-U, see "Bikepath Details No.13A" sheet.

NOTES:

1. The cable location shown is based on the information provided in "Suspension Cable Layout" sheets. The Contractor shall verify these locations based on the "as built" cable profile described in "Construction Sequence" sheets. In the event of a conflict, bikepath bracket details may be revised and submitted to the Engineer for review and approval.
2. For Sections A-A through F-F and R-R similar and weld details not shown, see "Bikepath Details No.10" sheet.
3. For Sections H-H through P-P similar, see "Bikepath Details No.14" sheets.
4. For Detail A, see "Bikepath Details No.14" sheet.
5. For location and details of traveler rail support, see "Traveler Rail Details No.13" sheet.
6. Stiffener plate spacing to match bikepath stringer spacing, see "Bikepath Framing Details No.6" sheet.
7. For Section Q-Q, see Section F-F of "Bikepath Details No.11" sheet.
8. For bikepath bracket stiffener, see Note 6 on "Floorbeam At East Transition No.5" sheet.
9. For nut keeper details, see "West Jacking Frame Details No.1" sheet.
10. For information not shown, See "Bikepath Details No.17, 18 & 19" sheets.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	837R5	1204

REGISTERED ENGINEER - CIVIL
12-6-04
PLANS APPROVAL DATE
Tien Hung Ho, No. C 43990, Exp. 06/30/13, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

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R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 01/20/12
Rev. Date: 5-18-98

DESIGN	BY T. Ho	CHECKED T. McMeans	
DETAILS	BY R. Xu	CHECKED P. Ritchie	
QUANTITIES	BY C. Bernardo	CHECKED S. Shi	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

CU 04
EA 0120F1

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)

BIKEPATH DETAILS NO. 13

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 05/31/01 01/30/02 01/31/02 12/13/02 11/13/05

SHEET 420R5 OF

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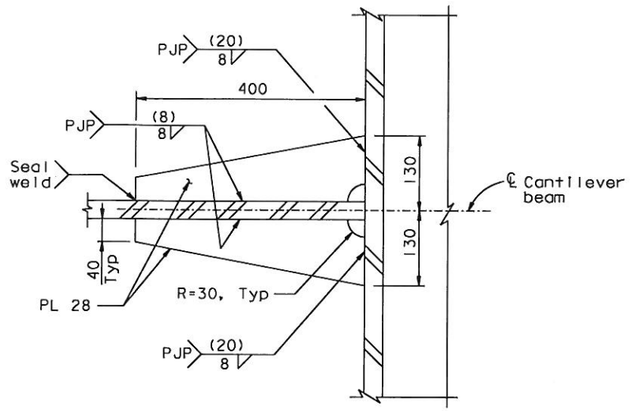
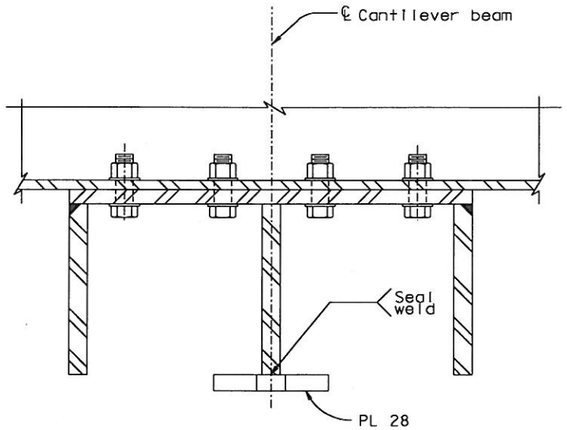


SECTION S-S
1:5



SECTION T-T
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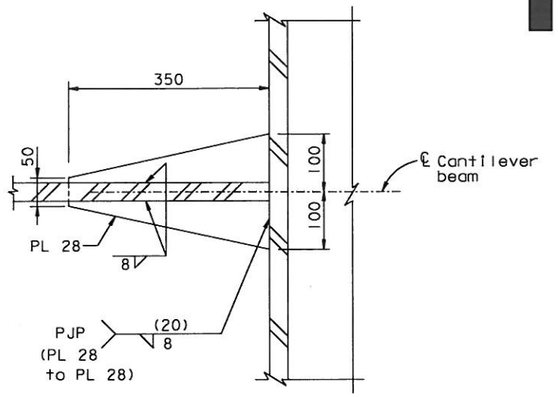

SECTION U-U
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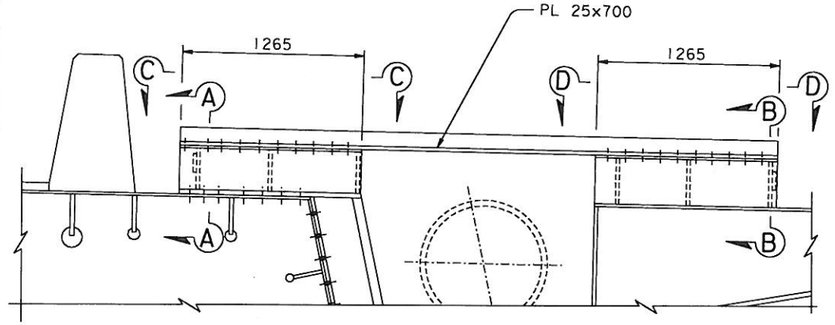

DETAIL M
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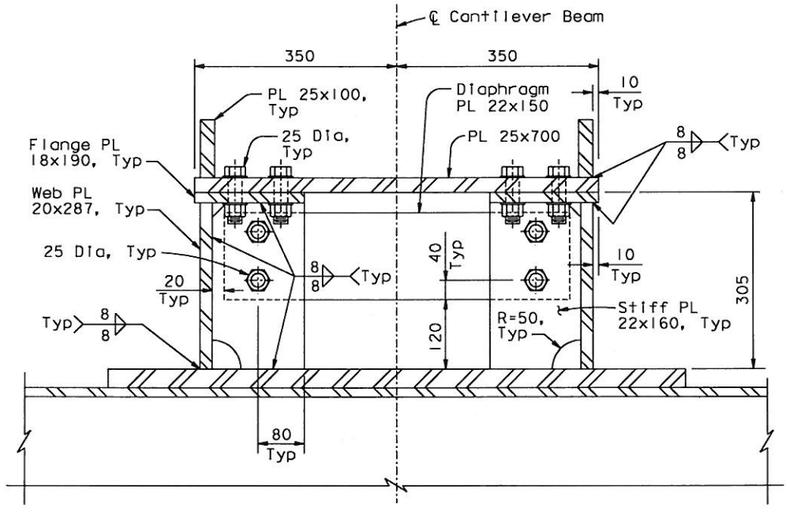

SECTION A-A
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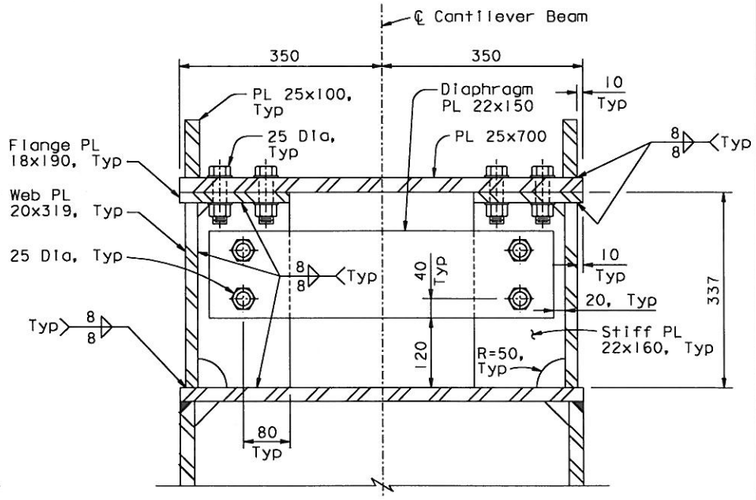

SECTION B-B
1:5

NOTES:

1. At PP117 web, flange and stiffener plates shall be shop-installed on the cantilever beam and top PL 32 on the OBG.
2. PL 25s and diaphragm plates shall be field-bolted to the flange plates after the cantilever beam is bolted to the OBG, and prior to installation of bikepath panels between PP115 and PP121.
3. For Sections C-C and D-D, see "Bikepath Details No. 13B" sheet.

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CONTRACT CHANGE ORDER NO. 233
SHEET 7 OF 8

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	837SI	1204

REGISTERED ENGINEER - CIVIL
01-20-12
PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER — Marwan N. Nader — No. C 054426 — Exp. 12/31/13 — CIVIL — STATE OF CALIFORNIA

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825 BATTERY STREET
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DESIGN OVERSIGHT
SIGN OFF DATE 01/20/12

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
6	01/20/12	BIKEPATH CANTILEVER BEAM MODIFICATIONS	DT	MN	233

REVISIONS

	BY	CHECKED
DESIGN	D. Turner	M. Nader
DETAILS	D. Turner	H. Tazir
QUANTITIES	D. Turner	H. Tazir

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

CU 04
EA 0120F1

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)

BIKEPATH DETAILS NO. 13A

Rev. Date: 5-18-98

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

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REVISION DATES (PRELIMINARY STAGE ONLY): 01/20/12

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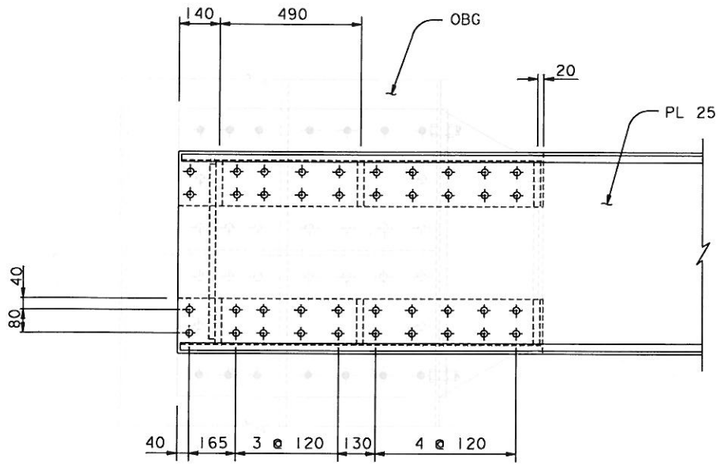

SECTION C-C
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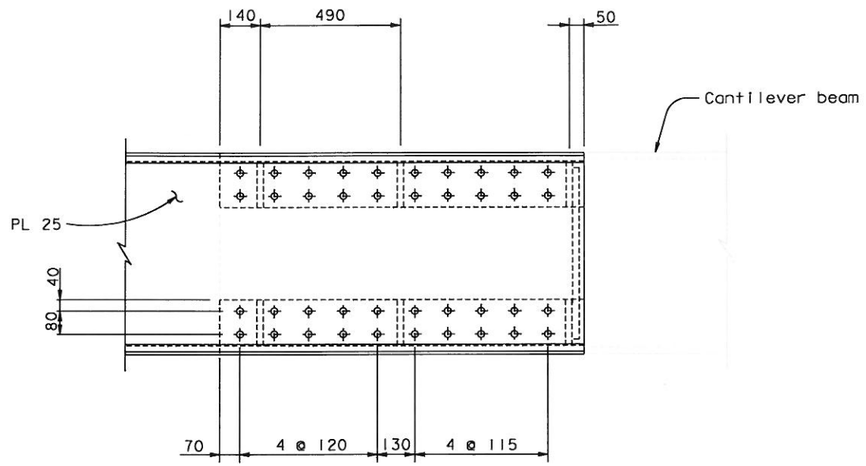

SECTION D-D
1:10

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	837S2	1204

REGISTERED ENGINEER - CIVIL

01-20-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Marwan N. Nader
No. C 054426
Exp. 12/31/13
CIVIL
STATE OF CALIFORNIA

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CONTRACT CHANGE ORDER NO. 233
SHEET 8 OF 8

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DESIGN OVERSIGHT
SIGN OFF DATE 01/20/12

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
0	01/20/12	BIKEPATH CANTILEVER BEAM MODIFICATIONS	DT	MN	233

REVISIONS

	BY	CHECKED
DESIGN	D. Turner	M. Nader
DETAILS	D. Turner	H. Tozir
QUANTITIES	D. Turner	H. Tozir

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
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)

BIKEPATH DETAILS NO. 13B

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

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REVISION DATES (PRELIMINARY STAGE ONLY): 01/20/12

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