STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONTRACT CHANGE ORDER

Change Requested by: Engineer

CCO: 63 **Suppl. No. 0** **Contract No. 04 – 0120F4** **Road** SF-80-13.2/13.9 **FED. AID LOC.:**

To: **AMERICAN BRIDGE/FLUOR ENTERPRISES INC A JOINT VENTURE**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. ***NOTE: This change order is not effective until approved by the Engineer.***

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. This last percentage shown is the net accumulated increase or decrease from the original quantity in the Engineer's Estimate.

Adjustment of Compensation at Lump Sum Price:

ITEM 1.

Within the tower shaft, modify the longitudinal stiffeners, additional field welding channels in the diaphragm and cut holes in the diaphragm as shown on sheets two (2) through seven (7) of this change order. The following revised contract plan sheets detail all changes: 0546R2, 0556R2, 0583R2, 0590R1, 0591R1 and 0592R2 (of 1204).

This change order resolves the costs associated with Contractor Request For Information (RFI) Nos. 262, 262R1, 399, 544, 544R1, 885 and 1023 with respect to changes listed above.

For this work, the Contractor will receive a lump sum price of $700,000.00. This sum constitutes full and complete compensation for furnishing all labor, material, tools and incidentals including all markups by reason of this change.

Adjustment of Compensation at Lump Sum Price..... $700,000.00

ITEM 2.

The items identified above in this change order have been paid as part of CCO 108 resolution. Therefore, the amount due under this change order will be adjusted by the amount paid under CCO 108 to prevent a double payment. Total amount paid under CCO 108, and to be credited to this change, is $700,000.00.

Adjustment of Compensation at Lump Sum Price..... <$700,000.00>

CHANGE ORDER COST AND TIME SUMMARY

(ITEM 1) Adjustment of Compensation for work pursuant to this change order	$700,000.00
(ITEM 2) Amount paid under CCO 108 for this change order	<$700,000.00>
Total net pay for this change order	$0.00

Contract time is addressed in CCO 108 for all work identified in this change order. Therefore contract time will not be adjusted in this change order.

Estimated Cost: **Increase** ☒ **Decrease** ☐ **$0.00**

By reason of this order the time of completion will be adjusted as follows: **0 days**

Submitted by

Signature [signature] **Resident Engineer** Mark Woods for Gary Pursell, Sup.T.E. **Date** 10 Feb 2010

Approval Recommended by

Signature [signature] **Supervising Transportation Engineer** Gary Pursell, Sup.T.E. **Date** 2/10/10

Engineer Approval by

Signature [signature] **Supervising Transportation Engineer** Gary Pursell, Sup.T.E. **Date** 2/23/10

We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

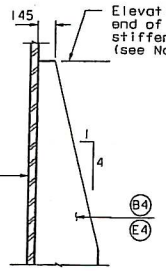
NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest within the time therein specified.

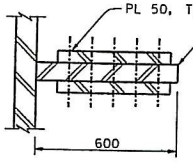
Contractor Acceptance by

Signature [signature] (Print name and title) Michael D. Flowers Project Director **Date** 2-22-10

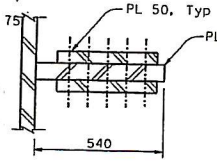
NOTES:

1. Weld of the longitudinal stiffener to the tower shaft skin plates beyond the length indicated shall be in accordance with Table I in "Tower Splice Details No.2" sheet.
2. Perimeter of exterior splice plates shall be caulked.
3. Longitudinal stiffener splice plates shall be A709M HPS 485W steel.
4. Dimension shall be increased by 25 mm for (E1), (E2), (E3) to account for shim plate between skin plate and interior splice plate.
5. For elevation of end of stiffener PL see "Tower Shaft Details No.7" sheet.





SECTION A-A
1:10



SECTION B-B
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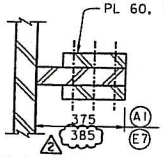

SECTION C-C
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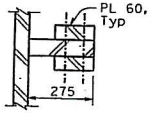

SECTION D-D
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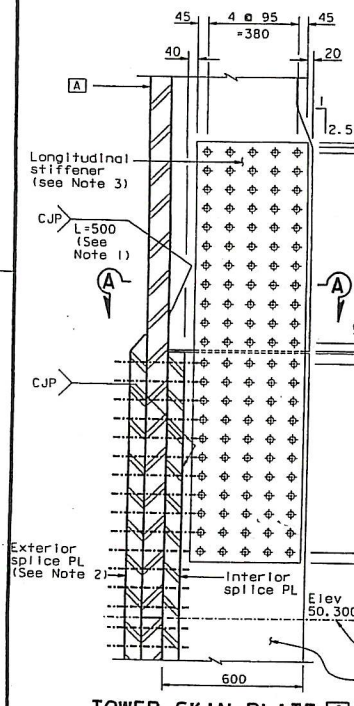
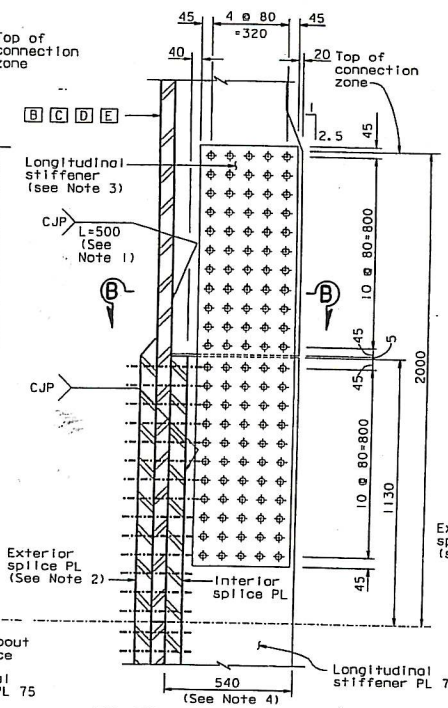
LONGITUDINAL STIFFENERS B4 AND E4
1:20

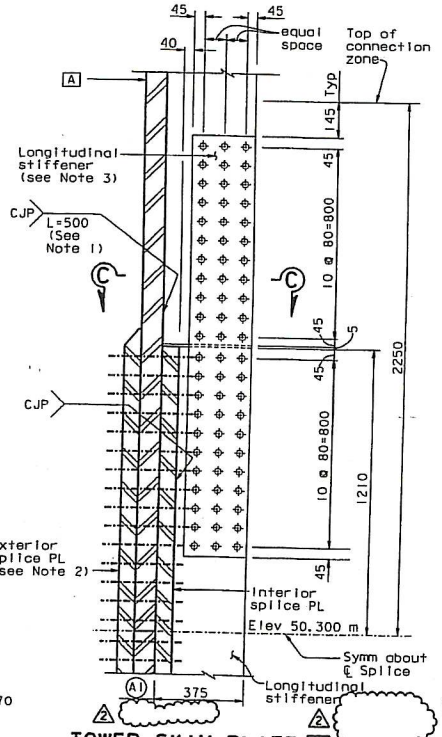


TOWER SKIN PLATE A
(Except A1)

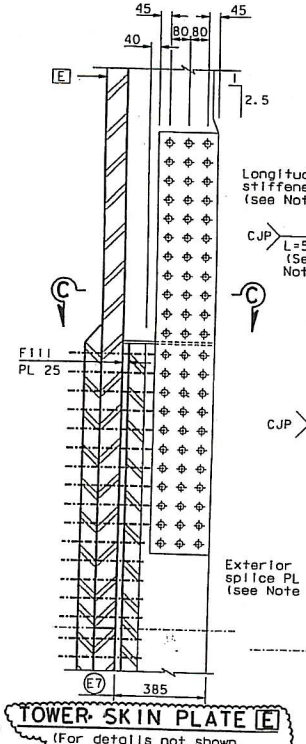


DETAIL F
1:10

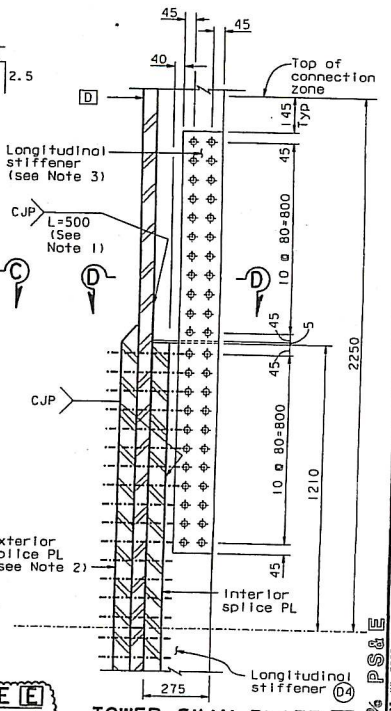
TOWER SKIN PLATE B TO E
(Except B4, D4, E4, and E7)



TOWER SKIN PLATE A
2



TOWER SKIN PLATE E
(For details not shown, see stiffener A1)
2



TOWER SKIN PLATE D

LEGEND:
M27 A490-X HS Bolt

DETAIL F (For A1, E7 and D4)
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			
2	07/11/08	TOWER INTERNAL SHAFT	MN	NV	63
1	06/23/06	LONG STIFFENER GAP & MISC	MN	NV	21

CONTRACT CHANGE ORDER NO. 63
SHEET 2 OF 7

R. Vallizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/11/08

Rev. Date: 5-15-98

	BY	CHECKED
DESIGN	M. Nader	M. Gulyas
DETAILS	L. Rus	M. Gulyas
QUANTITIES	L. Rus	Y. Zhang

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

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

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

TOWER SPLICE DETAILS NO. 7

REVISION DATES (PRELIMINARY STAGE ONLY)
05/07/18 | 11/13/15

SHEET 129R2 OF

DATE PLOTTED •> 23 JUL 2008
TIME PLOTTED •> 16:07:18
USERNAME •> plam

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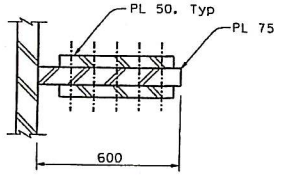
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	546R2	1204

REGISTERED ENGINEER - CIVIL
12-6-04
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.

REGISTERED PROFESSIONAL ENGINEER
Marwan N. Nader
No. C 054426
Exp. 12/31/09
CIVIL
STATE OF CALIFORNIA

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

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



SECTION A-A
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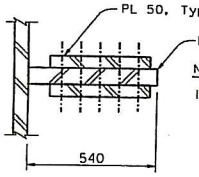


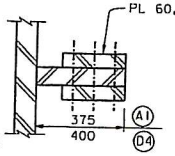
SECTION B-B
1:10

LEGEND:

M27 A490-X HS Bolt

NOTES:

1. Weld of the longitudinal stiffener to the tower shaft skin plates beyond the length indicated shall be in accordance with Table 1 in "Tower Splice Details No.2" sheet.
2. Dimension shall be increased by 25 mm for (E1) and 30 mm for (B1), (B2), (C1), (C2), and (C3) to account for shim plate between skin plate and interior splice plate.
3. Longitudinal stiffener splice plates shall be A709M HPS 485W steel.



SECTION C-C
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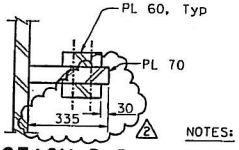
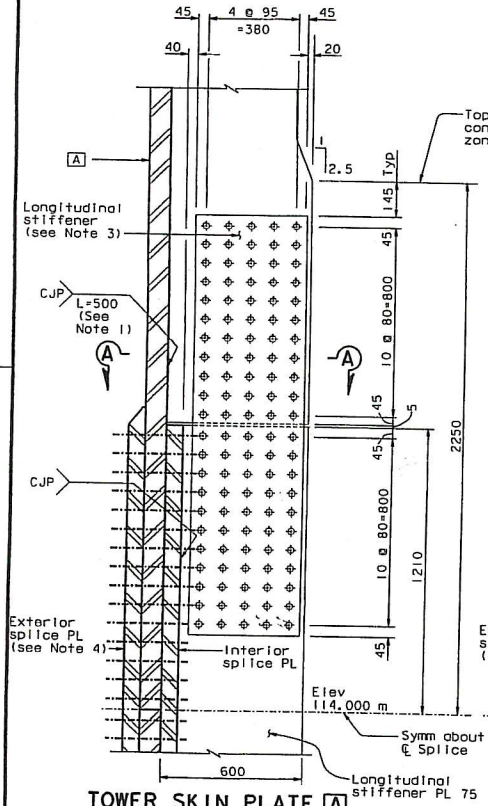


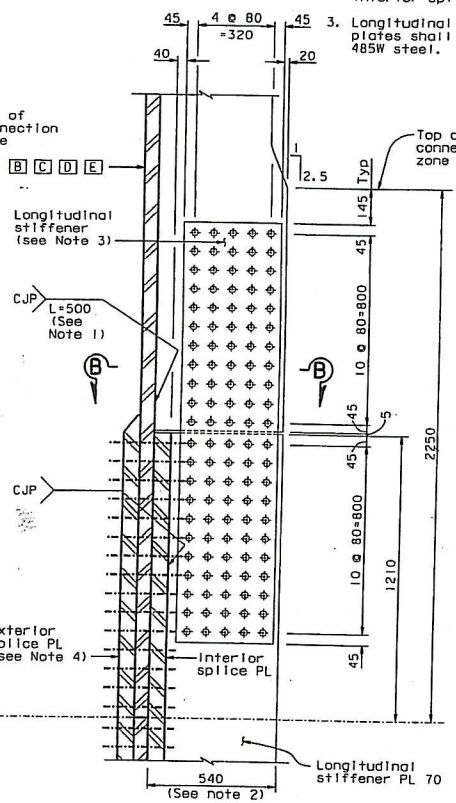
SECTION D-D
1:10

NOTES:

4. Perimeter of exterior splice plates shall be caulked.

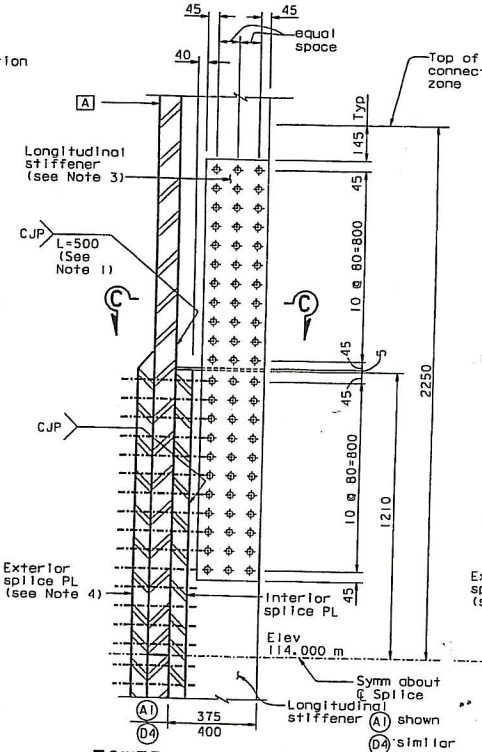


TOWER SKIN PLATE A
(Except A1)

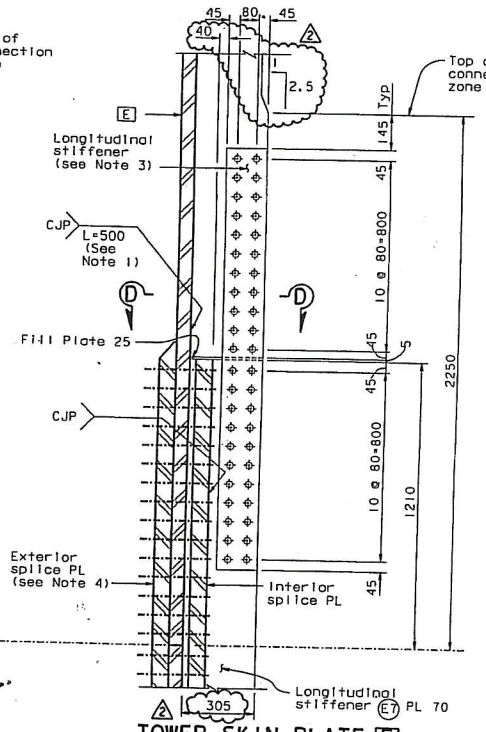


TOWER SKIN PLATES B TO E
(Except D4 and E7)

DETAIL F
1:10



TOWER SKIN PLATE A



TOWER SKIN PLATE E

DETAIL F (For A1 D4 and E7)
1:10

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
2	07/11/08	TOWER INTERNAL SHAFT	MN	NV	63
1	06/21/06	LONG. STIFFENER GAP & MISC.	MN	NV	21

REVISIONS

CONTRACT CHANGE ORDER NO. 63
SHEET 3 OF 7

	BY	CHECKED
DESIGN	M. Nader	N. Vo
DETAILS	J. Lopez	N. Vo
QUANTITIES	J. Lopez	N. Vo

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

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

CU 04
EA 0120F1

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
07/08/08	06/21/06	03/29/06	12/16/05	11/14/05				139R2	

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

TOWER SPLICE DETAILS NO. 17

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	556R2	1204

REGISTERED ENGINEER - CIVIL
12-6-04
PLANS APPROVAL DATE
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Marwan N. Nader
No. C 054426
Exp. 12/31/09
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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

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R. Vallizadeh/V. Toan/Y. L./N. L./F. C.
DESIGN OVERSIGHT
Rev. Date: 5-13-98
SIGN OFF DATE 07/11/08

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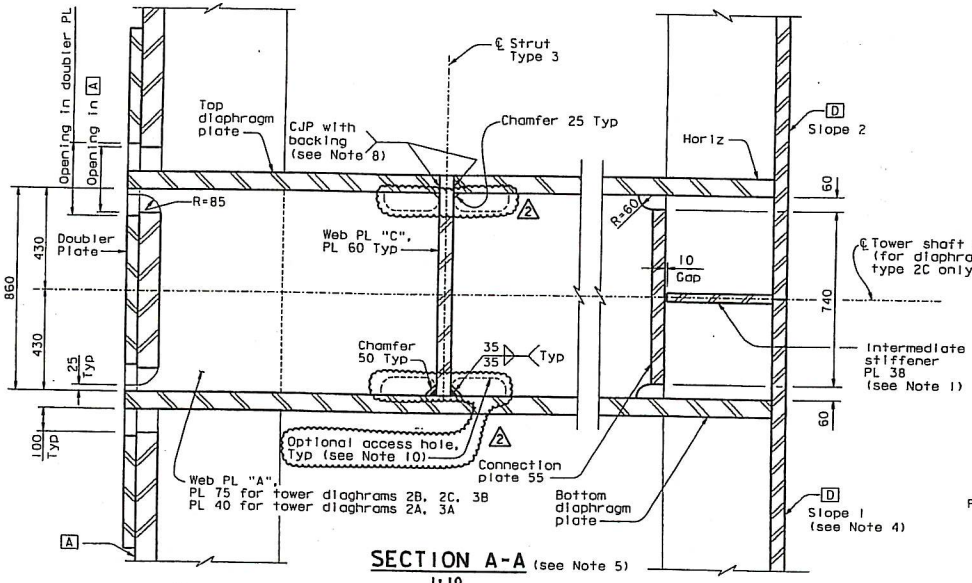
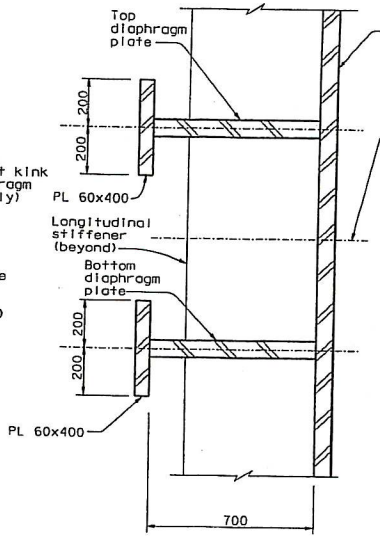
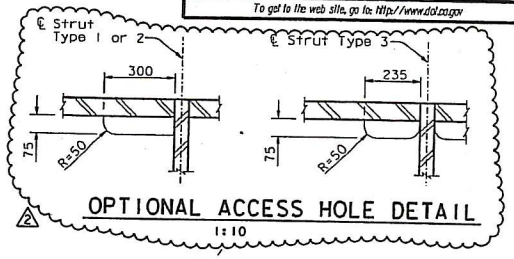


SECTION A-A (see Note 5)

1:10

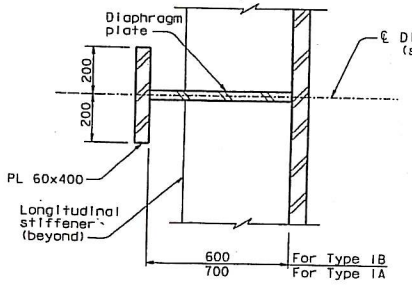


TYPE 3A AND 3B

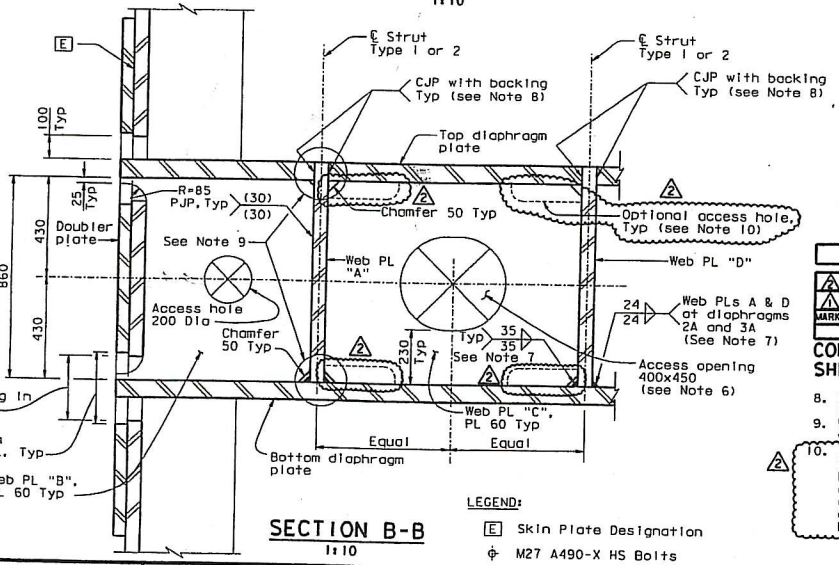


OPTIONAL ACCESS HOLE DETAIL

1:10

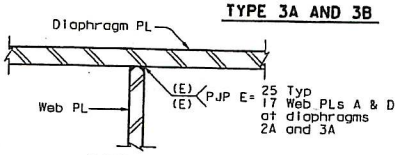


TYPE 1A AND 1B



SECTION B-B

1:10



DETAIL A

1:10

SECTION C-C (Note: Fit lug plate not shown for clarity)

1:10

LEGEND:

E Skin Plate Designation

ϕ M27 A490-X HS Bolts

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE				
2	07/11/08	TOWER INTERNAL SHAFT	MN	NV	63
1	06/23/06	WEB PL TO DIAPHRAGM PL WELD	MN	NV	21
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

CONTRACT CHANGE ORDER NO. 63
SHEET 4 OF 7

8. For alternate web plate to diaphragm plate weld, see Detail A.
9. Weld joint details shown at top and at bottom of web plate are interchangeable for all web plates.
10. At the Contractor's option, access holes may be provided to facilitate strut erection. Access holes for strut Type 3 apply at all tower strut elevations. Access holes for strut Type 1 apply at elevation 119 m. Access holes for strut Type 2 apply at elevation 143 m. See "Optional Access Hole Detail".

NOTES:

1. Intermediate stiffener plate only for diaphragm type 2C. For stiffener plate layout and details, see "Tower Diaphragm Details No. 12" sheet.
2. Tower strut flange splice is not shown for clarity.
3. For diaphragm locations, see "Tower Diaphragm Details No. 1" sheet.
4. For tower skin plate slope, see "Tower Shaft Details No. 5" and "Tower Shaft Details No. 6" sheets.
5. For inspection and access openings in web plate "A", see "Tower Diaphragm Details No. 9" sheet.
6. For access opening, see Detail B on "Tower Diaphragm Details No. 10" sheet.
7. An equivalent PJP weld is an acceptable alternative.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	583R2	1204

REGISTERED ENGINEER - CIVIL
Marwan N. Nader No. C 054426 Exp. 12/31/09 CIVIL STATE OF CALIFORNIA
12-6-04
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.

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825 BATTERY STREET
SAN FRANCISCO, CA 94111

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R. Vallzadeh/V. Toon/Y. L./M. L./F. C.	DESIGN	BY M. Nader	CHECKED M. Gulyas	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	R. Manzanarez PROJECT ENGINEER
DESIGN OVERSIGHT	DETAILS	BY L. Rus	CHECKED M. Gulyas		BRIDGE NO. 34-0006L/R
SIGN OFF DATE 07/11/08	QUANTITIES	BY L. Rus	CHECKED Y. Zhang		KILOMETER POST 13.2/13.9
Rev. Date 5-18-98				CU 04 EA 0120F1	

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

TOWER DIAPHRAGM DETAILS NO. 8

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 166R2

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

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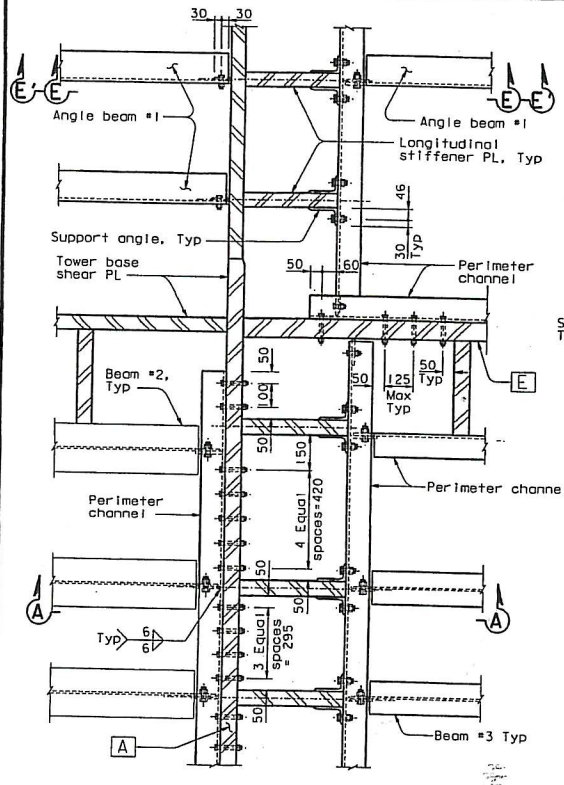

DETAIL A (Diaphragm plate not shown for clarity)
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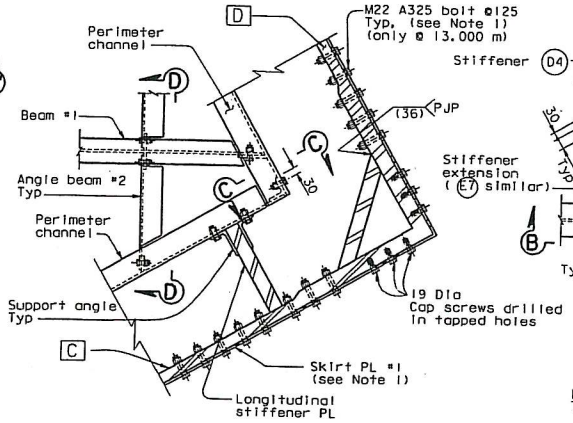
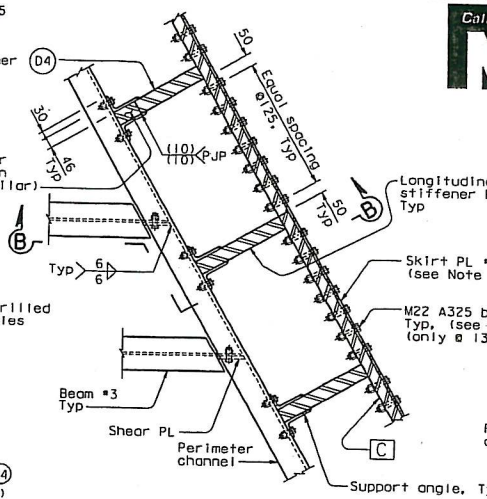
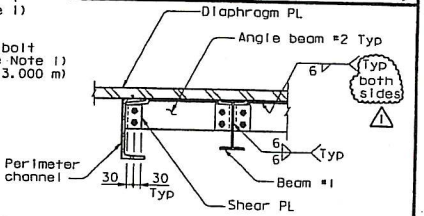


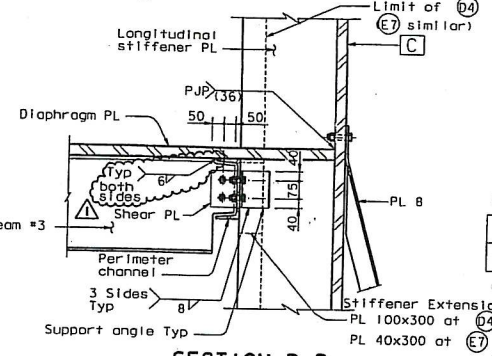
DETAIL B (Diaphragm plate not shown for clarity)
1:10



DETAIL C (Diaphragm plate not shown for clarity)
1:10



SECTION D-D
1:10



SECTION B-B
1:10

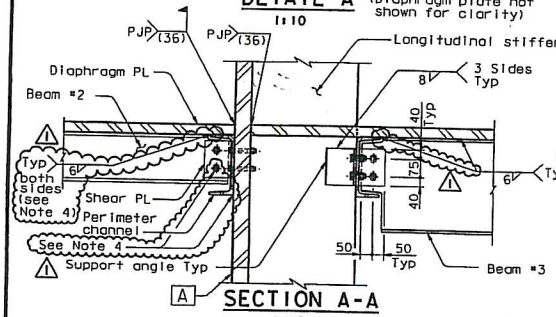
Shear Tab Detail

Shear PL	12 mm
Fillet Weld Leg Size*	6 mm

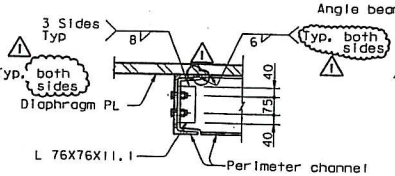
* Leg size on either side of the shear plate.

Bolted Connection Schedule

Connecting Elements	Bolts	Edge Distance	Bolt Spacing
W to C	2, M20 A325-X	40 mm	75 mm
W to W	2, M20 A325-X	40 mm	75 mm
W to Tower	2, M20 A325-X	40 mm	75 mm
W to L	2, M16 A325-X	25 mm	50 mm
C to L	2, M16 A325-X	25 mm	50 mm
L to Tower	2, M16 A325-X	25 mm	50 mm
C to Tower	M16 A325-X	Stitch Bolting Max=130 mm	
C to Longitudinal Stiffener	4, M20 A325-X	40 mm	75 mm
C to C	2, M20 A325-X	40 mm	75 mm



SECTION A-A
1:10



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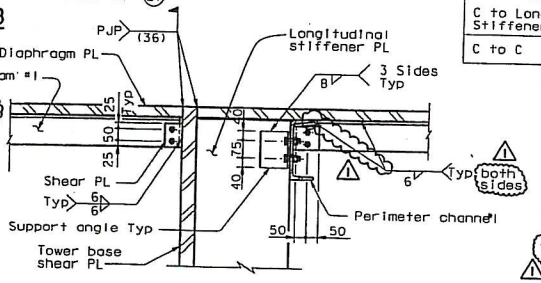

SECTION E-E
1:10

NOTES:

1. Tower skirt not shown for clarity. For tower skirt details, see "Tower Skirt Details" sheets.
2. Details shown in this sheet do not account for the 1% slope of diaphragm at elevation 13 m. The fabrication of these details shall account for this slope.
3. For section E'-E', see "Tower Diaphragm Details No. 17" sheet.
4. To facilitate erection, shim plates are allowed between perimeter channel and tower skin PL, alternatively perimeter channels may be attached using field welds and bolts in slotted holes.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	590RI	1204

REGISTERED ENGINEER - CIVIL
Marwan N. Nader No. C 054426 Exp. 12/31/09 CIVIL
12-6-04
PLANS APPROVAL DATE

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	07/11/08	TOWER INTERNAL SHAFT	MN	NV	63

REVISIONS

CONTRACT CHANGE ORDER NO. 63
SHEET 5 OF 7

	BY	CHECKED
DESIGN	M. Nader	M. Gulyas
DETAILS	L. Rus	M. Gulyas
QUANTITIES	L. Rus	Y. Zhang

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)

TOWER DIAPHRAGM DETAILS NO. 15

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 173RI OF

R. Vallizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Ron Vallizadeh / Vinga Toan / Y. Liu
SIGN OFF DATE 07/11/08

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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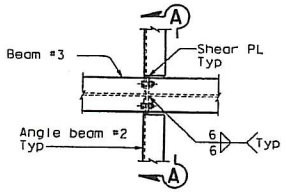

DETAIL D (Diaphragm plate not shown for clarity)
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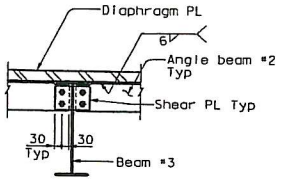

SECTION A-A
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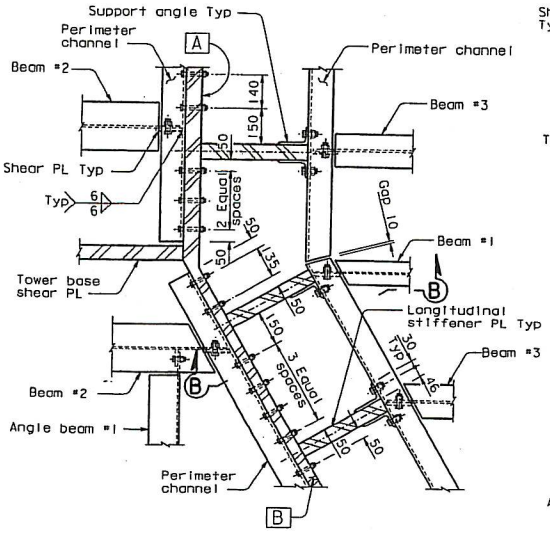

DETAIL F (Diaphragm plate not shown for clarity)
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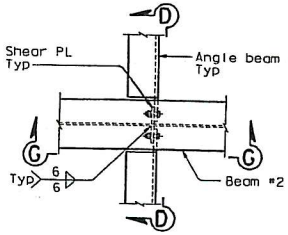

DETAIL G (Diaphragm plate not shown for clarity)
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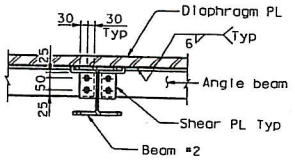

SECTION D-D
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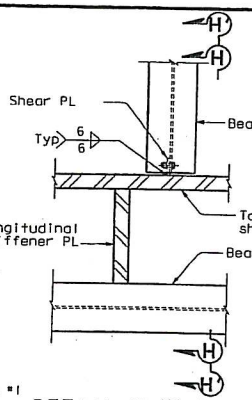

DETAIL H (Diaphragm plate not shown for clarity)
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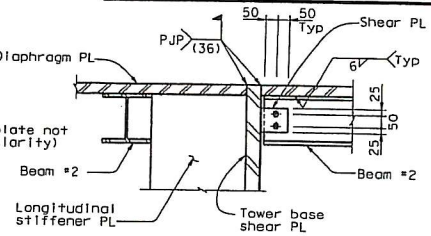

SECTION H-H
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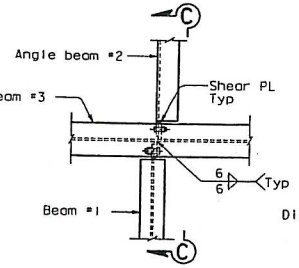

DETAIL E (Diaphragm plate not shown for clarity)
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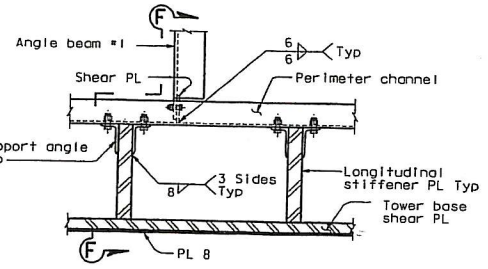

DETAIL J (Diaphragm plate not shown for clarity)
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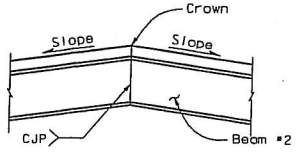
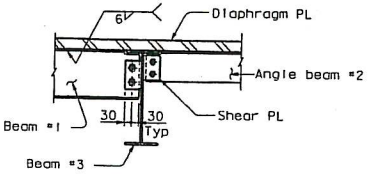


SECTION G-G
NTS
(Crown detail for diaphragm at Elev 13 m, Slope exaggerated for clarity)



SECTION C-C
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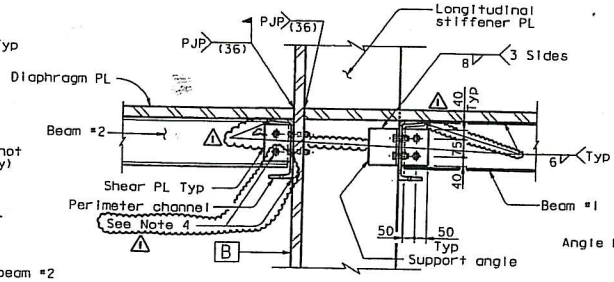

SECTION B-B
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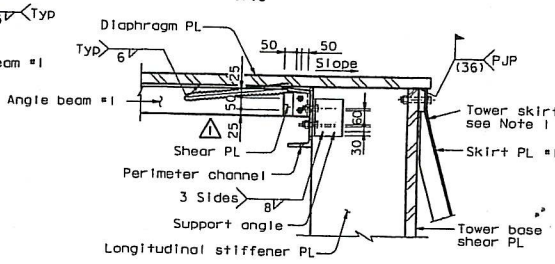

SECTION F-F
1:10

NOTES:

1. For tower skirt details, see "Tower Skirt Details" sheets.
2. Details shown in this sheet do not account for the 1% slope of diaphragm at elevation 13 m. The fabrication of these details shall account for this slope.
3. For section H'-H', see "Tower Diaphragm Details No. 15" sheet.
4. ⚠ To facilitate erection, shim plates are allowed between perimeter channel and tower skin PL, alternatively perimeter channels may be attached using field welds and bolts in slotted holes.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	591R1	1204

REGISTERED ENGINEER - CIVIL
Marwan N. Nader No. C 054426 Exp. 12/31/09 CIVIL STATE OF CALIFORNIA
12-6-04
PLANS APPROVAL DATE

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REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	REVISIONS	BY	CH'D	CCO#
1	07/11/08	TOWER INTERNAL SHAFT	MN	NV	63

CONTRACT CHANGE ORDER NO. 63
SHEET 6 OF 7

	BY	CHECKED
DESIGN	M. Nader	M. Gulyas
DETAILS	L. Rus	M. Gulyas
QUANTITIES	L. Rus	Y. Zhang

R. Vallzadeh/V. Toon/Y.L./M.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/11/08
Rev. Date: 5-18-98

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
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

BRIDGE NO. 34-0006L/R
KILOMETER POST 13.2/13.9
CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

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

TOWER DIAPHRAGM DETAILS NO. 16

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 174R1 OF

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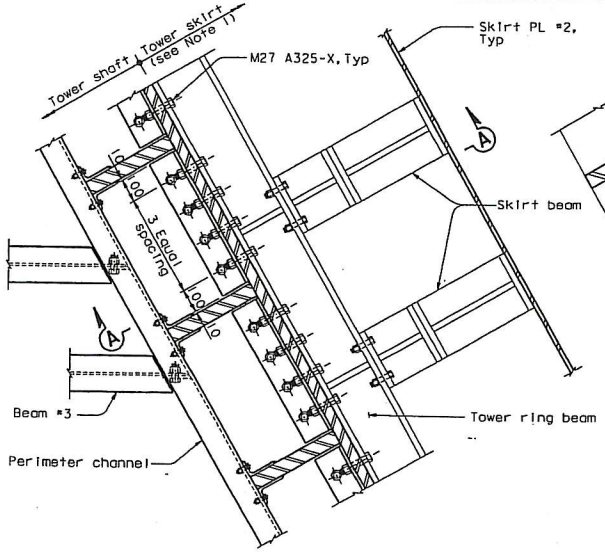
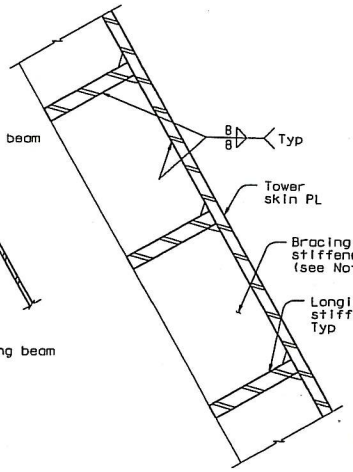
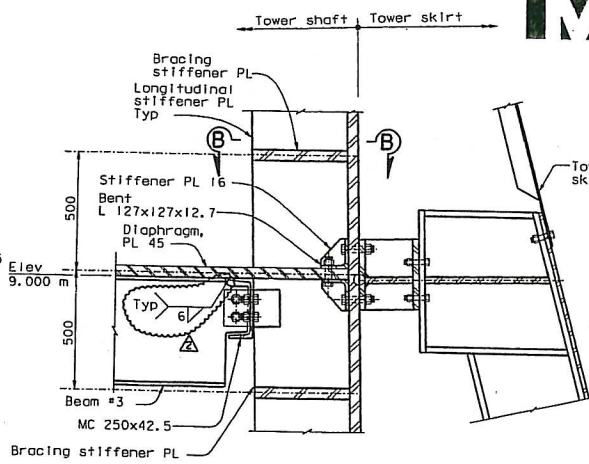
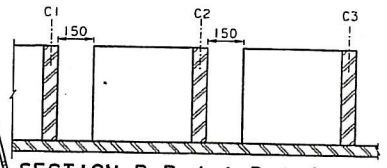


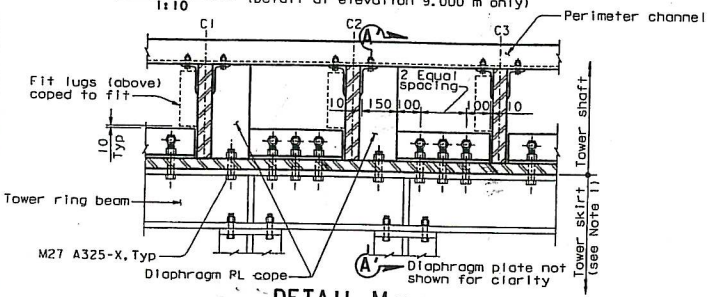






SECTION B-B (at Detail M)
1:10

DETAIL C' (Diaphragm plate not shown for clarity)
(Detail at elevation 9.000 m only)
1:10



DETAIL M (Detail at elevation 9.000 m only)
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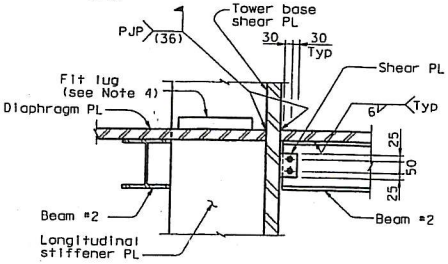
SECTION B-B
1:10



SECTION A-A (A'-A' Sim)
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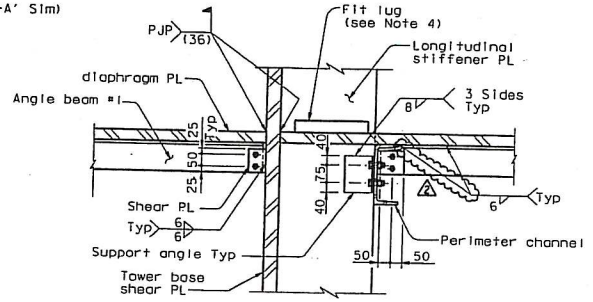
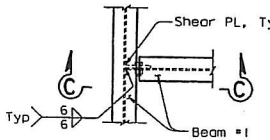


SECTION H'-H'
1:10
(Detail at elevation 9.000 m only)

SECTION E'-E'
1:10
(Detail at elevation 9.000 m only)



DETAIL K
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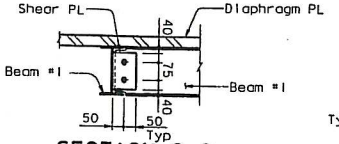

SECTION C-C
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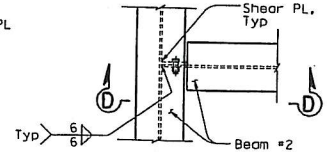
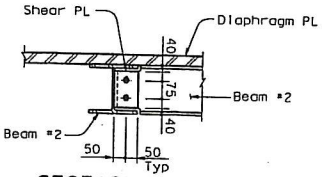


DETAIL L
1:10



SECTION D-D
1:10

NOTES:

1. For tower skirt details, see "Tower Skirt Details No.1" sheet.
2. For typical diaphragm cutout around tower longitudinal stiffeners, see "Tower Diaphragm Details No.6" sheet.
3. Bracing stiffener plates shall be located along tower skin PL C and D, and tower base shear plates 01 and C.
4. Fit lugs for shear plates may be field welded. For fit lug details, see "Tower Diaphragm Details No.6" sheet.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	592R2	1204

REGISTERED ENGINEER - CIVIL
12-6-04
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Marwan N. Nader, No. C 054426, Exp. 12/31/09, CIVIL, STATE OF CALIFORNIA

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
2	07/11/08	TOWER INTERNAL SHAFT	NV	MN	63
1	09/01/07	ELECTRICAL MODIFICATIONS	NV	MN	42

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

CONTRACT CHANGE ORDER NO. 63
SHEET 7 OF 7

R. Vallizadeh/V. Toon/Y.L./M.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/11/08
Rev. Date: 5-18-95

DESIGN	BY M. Nader	CHECKED M. Gulyas	
DETAILS	BY L. Rus	CHECKED M. Gulyas	
QUANTITIES	BY L. Rus	CHECKED Y. Zhang	

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

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)

TOWER DIAPHRAGM DETAILS NO. 17

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY)
SHEET 175R2 OF

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