DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	943R2	1204

George Baker
REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — George S. Baker — No. C57112 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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825 BATTERY STREET
SAN FRANCISCO, CA 94111

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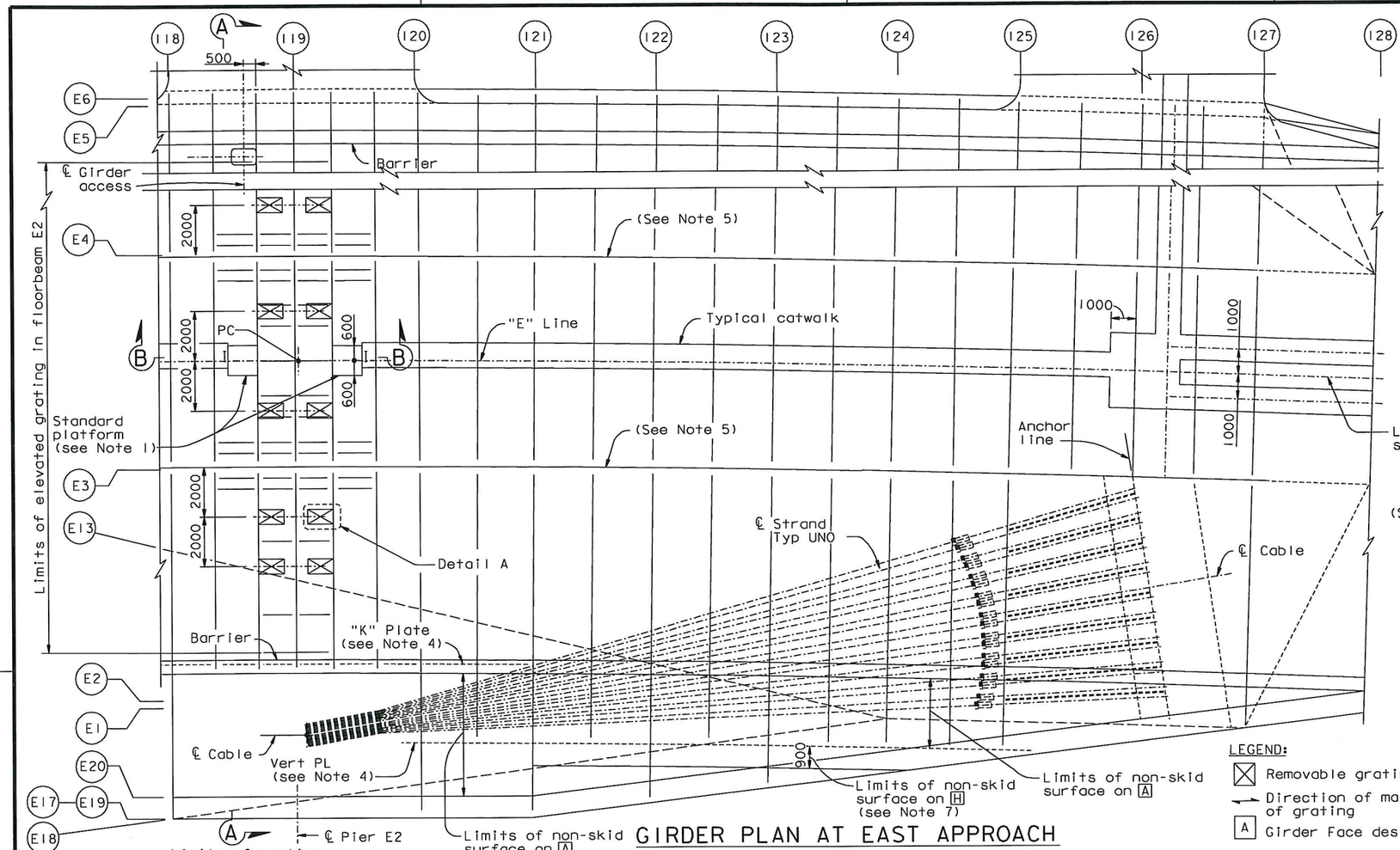

GIRDER PLAN AT EAST APPROACH
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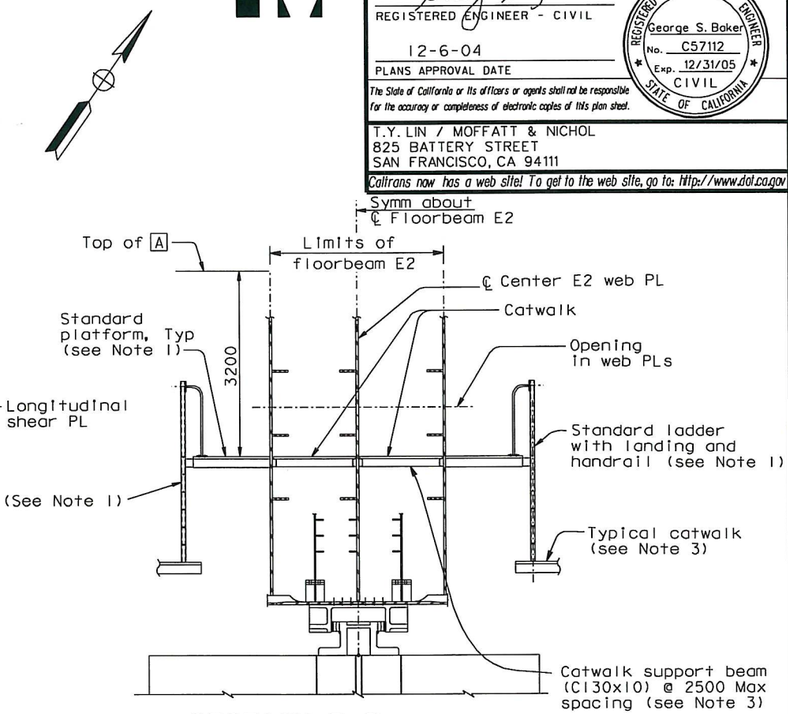

SECTION B-B
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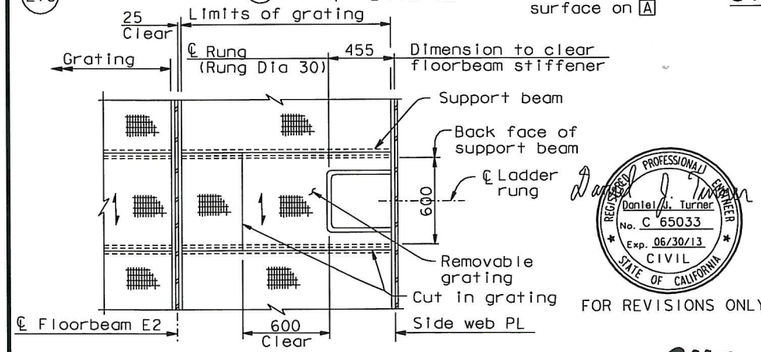
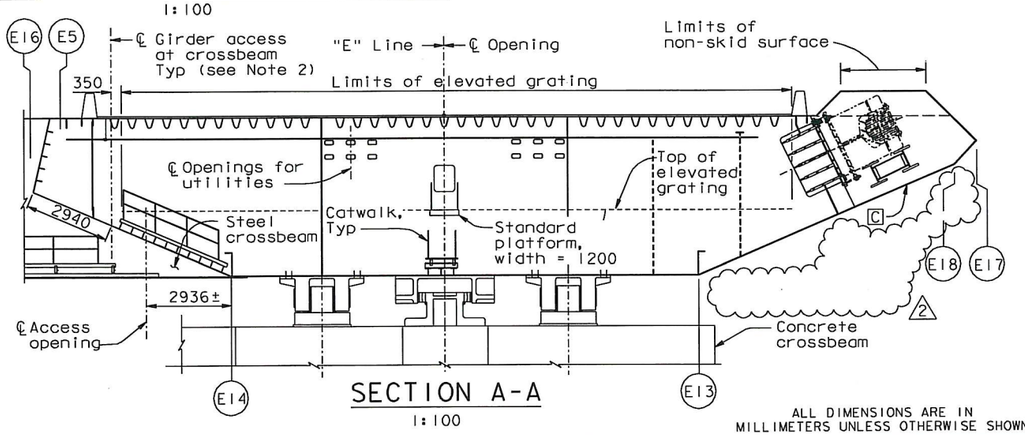


DETAIL A
1:20

Daniel J. Turner — REGISTERED PROFESSIONAL ENGINEER — No. C 65033 — Exp. 06/30/13 — CIVIL — STATE OF CALIFORNIA

FOR REVISIONS ONLY



SECTION A-A
1:100

LEGEND:

- ☒ Removable grating access
- ⟷ Direction of main reinforcement of grating
- A Girder Face designation A

NOTES:

1. For standard platform, ladder and railing, see "Tower Access Details" sheets. Channel 75 ladder rails shall be spaced at 500 mm back-to-back. Landing handrails shall be spaced at 500 mm clear or greater.
2. For access openings and rungs, see "Typical Girder Details No.15", "Crossbeam At Pier E2", and "Girder At Pier E2" sheets.
3. For catwalk details not shown, see "Girder Access Details No.2" sheet.
4. For "K" plate and vertical plate access openings, see "Girder At East Transition Details" sheets.
5. For access openings in longitudinal shear plates, see "Typical Girder Details No.7" and "Girder At East Transition No.9" sheets.
6. For other access openings, see "Floorbeam At East Transition" sheets.
7. Within limits shown, apply non-skid surface to face H and the upper face of longitudinal stiffeners.
8. Locate crossbeam catwalk 1300 west of west side web.

CONTRACT CHANGE ORDER NO. 9450
SHEET 4 OF 13

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2	06/29/11	ADDITIONAL PAINTING	DT	JD	94
1	11/05/10	PP119 ACCESS & PP125 PLATES	GB	DT	86
		REVISIONS			

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Ryan Valizadeh / Vong Toan / Y. Liu
SIGN OFF DATE 06/29/11

	BY	CHECKED
DESIGN	G. Baker	T. McMeans
DETAILS	C. Mauch	T. McMeans
QUANTITIES	C. Mauch	J. Leventini

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)

GIRDER ACCESS DETAILS NO. 3

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)								SHEET	OF
01/23/99	05/25/99	08/27/99	05/24/01	08/28/02	07/29/02	12/18/02	12/07/05	526R2	

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USERNAME => DWinrow DATE PLOTTED => 28 JUN 2011 TIME PLOTTED => 15:50:17

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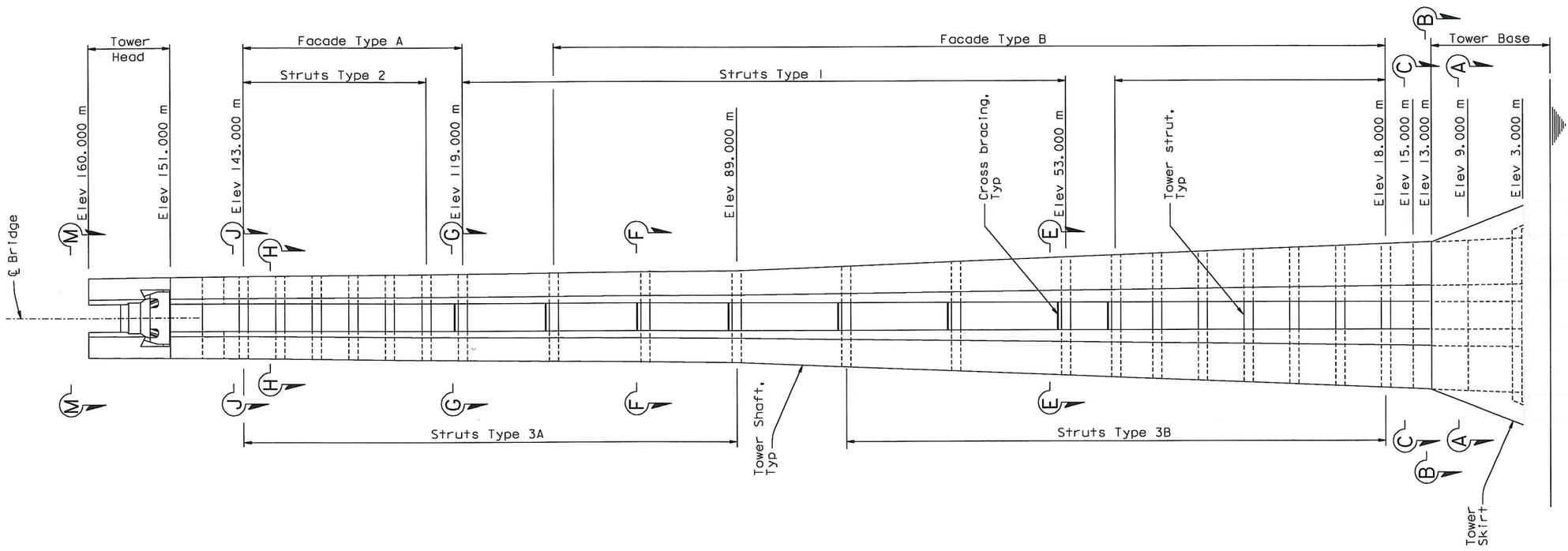
NOTES:

1. For Sections A-A, B-B and C-C, see "Supplementary Tower Non-Skid Surface Details No.2" sheet.
2. For Section E-E, see "Supplementary Tower Non-Skid Surface Details No.3" sheet.
3. For Sections F-F, G-G, H-H and J-J, see "Supplementary Tower Non-Skid Surface Details No.4" sheet.
4. For Section M-M, see "Supplementary Tower Non-Skid Surface Details No.5" sheet.
5. The non-skid coating shall be;
   210 mm clear from the edges of the facade top plates,
   210 mm clear from skin A and skin E on the tower head diaphragm, and
   210 mm clear of the skin plates on the 13 m diaphragm.
6. No non-skid coating shall be applied to the top of any handrail or railing.



KEY ELEVATION
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CONTRACT CHANGE ORDER NO. 9450
SHEET 5 OF 13

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	956S2	1204

REGISTERED ENGINEER - CIVIL
James P. Duxbury
No. C 64677
Exp. 06/30/11
CIVIL
11-12-10
PLANS APPROVAL DATE

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REVISIONS

R. Vollzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 11/12/10

	BY	CHECKED
DESIGN	N. Vo	J. Duxbury
DETAILS	N. Vo	J. Duxbury
QUANTITIES	N. Vo	J. Duxbury

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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)

SUPPLEMENTARY TOWER NON-SKID SURFACE 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

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REVISION DATES (PRELIMINARY STAGE ONLY): 11/12/10

SHEET 53952 OF

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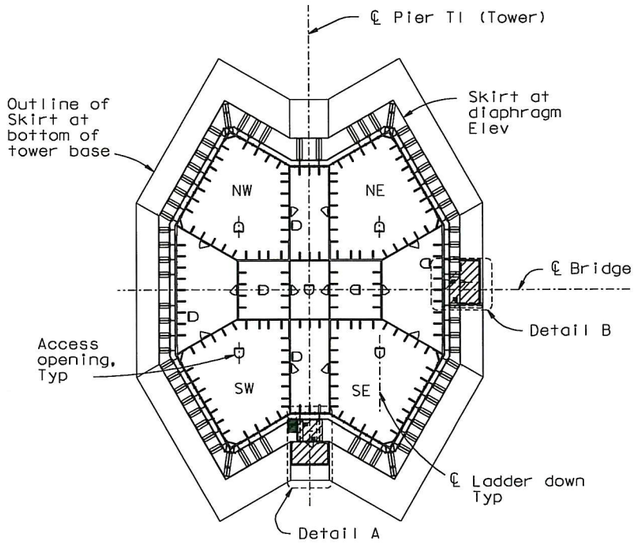
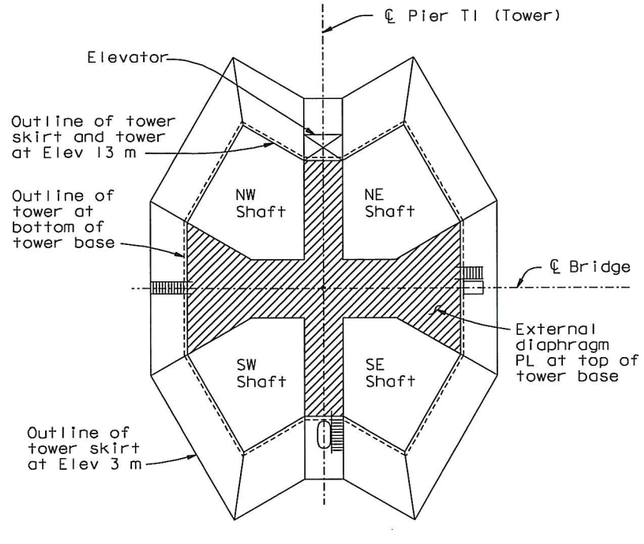


PLAN AT 9.000 M

SECTION A-A

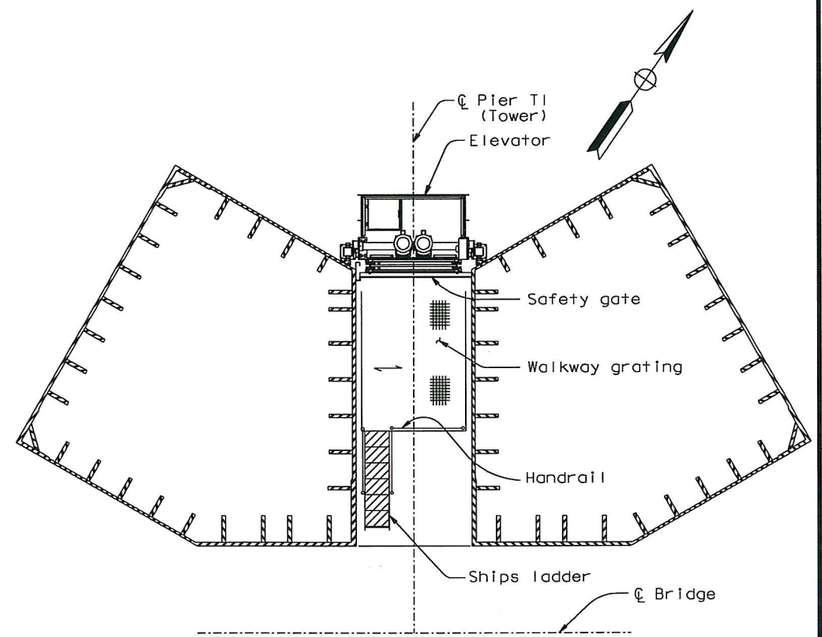
NTS



PLAN AT 13.000 M

SECTION B-B

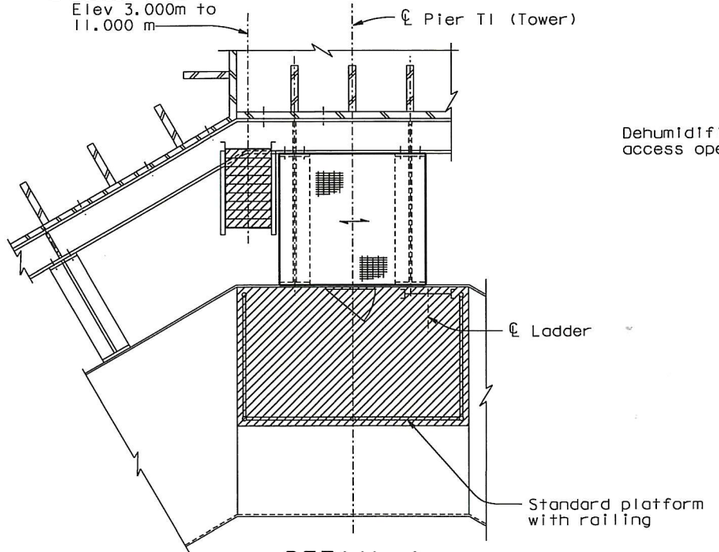
NTS



PARTIAL PLAN AT 15.000 M

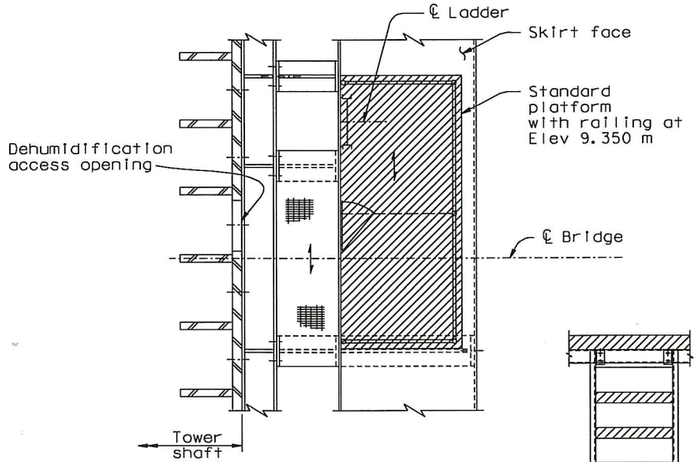
SECTION C-C

1:50



DETAIL A

1:25



DETAIL B

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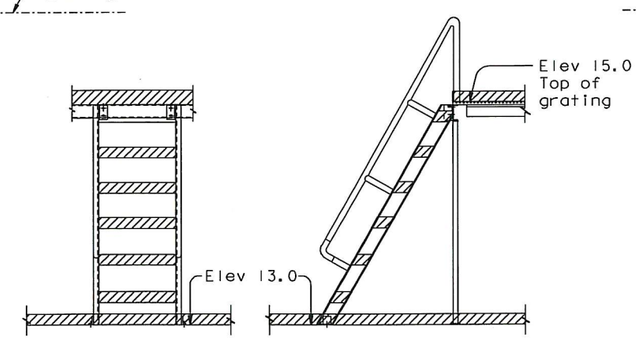

ELEVATION

SHIPS LADDER DETAILS

1:25

LEGEND:

Non-skid coating

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CONTRACT CHANGE ORDER NO. 9450

SHEET 6 OF 13

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	95653	1204

REGISTERED ENGINEER - CIVIL

James P. Duxbury No. C 64677 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

11-12-10

PLANS APPROVAL DATE

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DESIGN	N. Vo	J. Duxbury
DETAILS	N. Vo	J. Duxbury
QUANTITIES	N. Vo	J. Duxbury

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)

SUPPLEMENTARY TOWER NON-SKID SURFACE DETAILS NO. 2

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 11/12/10

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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SHEET 53953 OF

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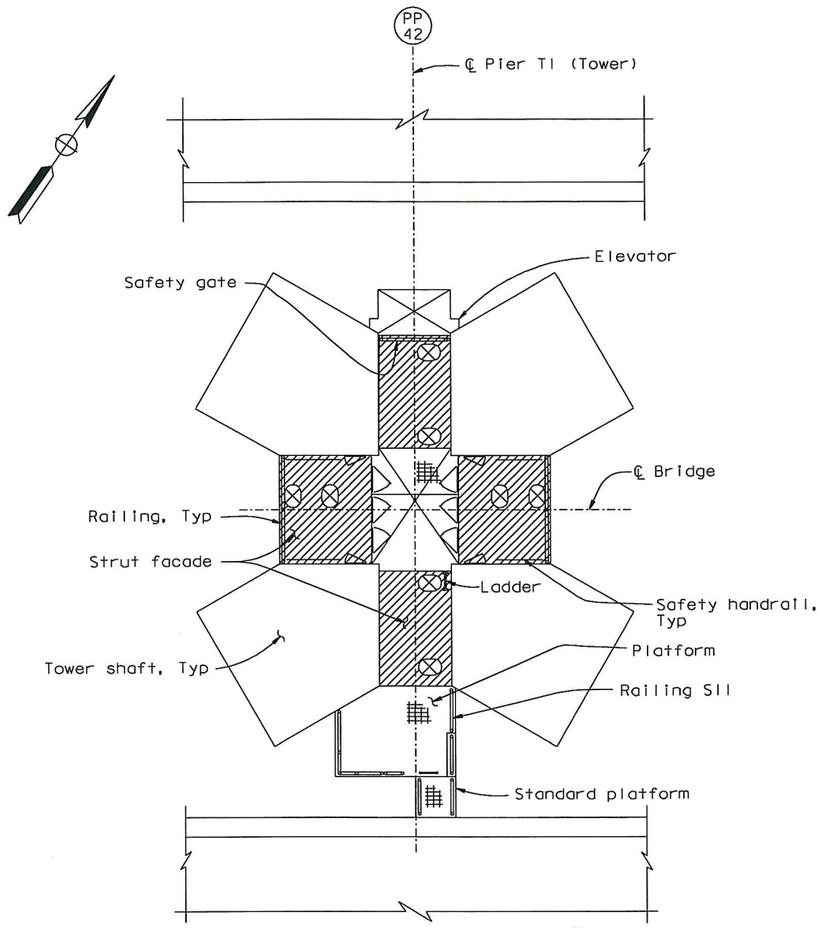

TOWER ACCESS PLATFORMS

SECTION E-E

NTS

LEGEND:

Non-skid coating

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SHEET 7 OF 13

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	95654	1204

REGISTERED ENGINEER - CIVIL

11-12-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James P. Duxbury
No. C 64677
Exp. 06/30/11
CIVIL
STATE OF CALIFORNIA

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6	11/12/10	ADDITIONAL PAINTING	NV	JD	94

	BY	CHECKED
DESIGN	N. Vo	J. Duxbury
DETAILS	N. Vo	J. Duxbury
QUANTITIES	N. Vo	J. Duxbury

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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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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)

SUPPLEMENTARY TOWER NON-SKID SURFACE DETAILS NO. 3

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): 11/12/10

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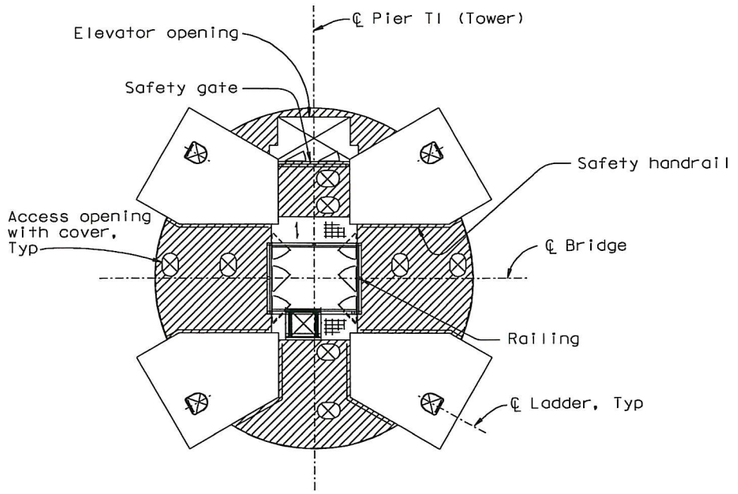
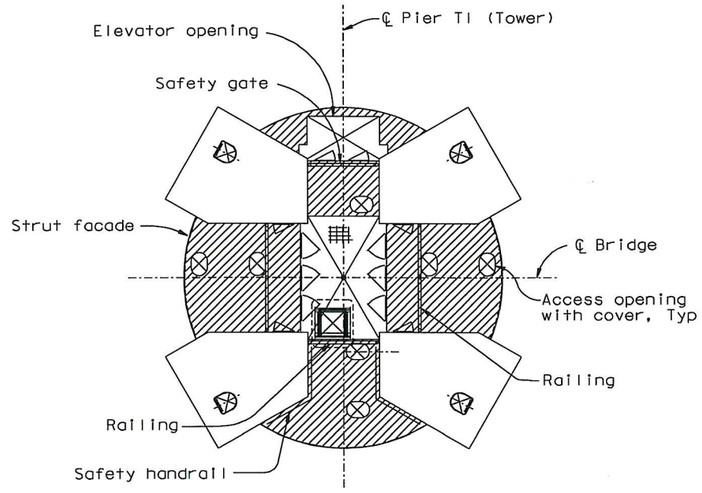
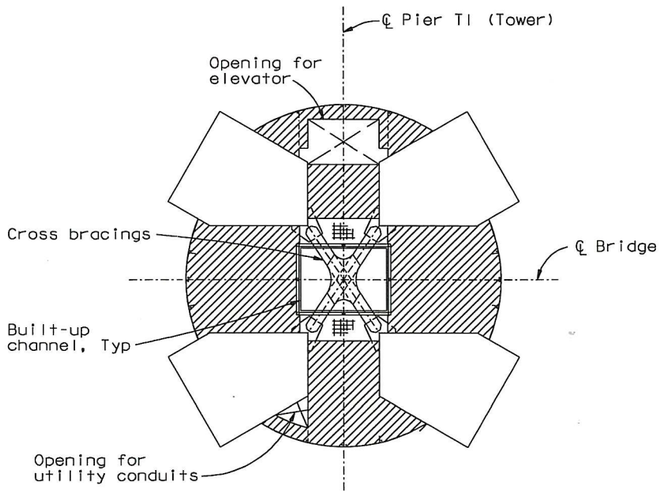


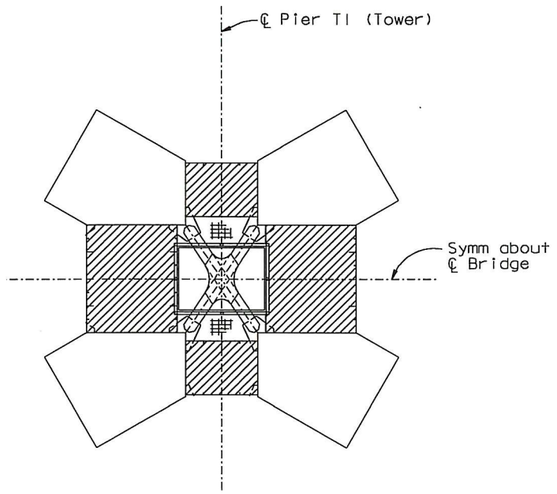
TOWER STRUT FACADE TYPE A
SECTION H-H
NTS



TOWER STRUT FACADE TYPE A
SECTION J-J
NTS



TOWER STRUT FACADE TYPE A
SECTION G-G
NTS



TOWER STRUT FACADE TYPE B
SECTION F-F
NTS

(Partial grating shown. For full grating at 89 m, see Section E-E)

LEGEND:

Non-skid coating

CONTRACT CHANGE ORDER NO. 9450
SHEET 8 OF 13

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04	SF	80	13.2/13.9	956S5	1204

REGISTERED ENGINEER - CIVIL
James P. Duxbury
No. C 64677
Exp. 06/30/11
CIVIL
STATE OF CALIFORNIA
11-12-10
PLANS APPROVAL DATE

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DETAILS	N. Vo	J. Duxbury
QUANTITIES	N. Vo	J. Duxbury

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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)

SUPPLEMENTARY TOWER NON-SKID SURFACE DETAILS NO. 4

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 11/12/10

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
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REVISION DATES (PRELIMINARY STAGE ONLY): 11/12/10

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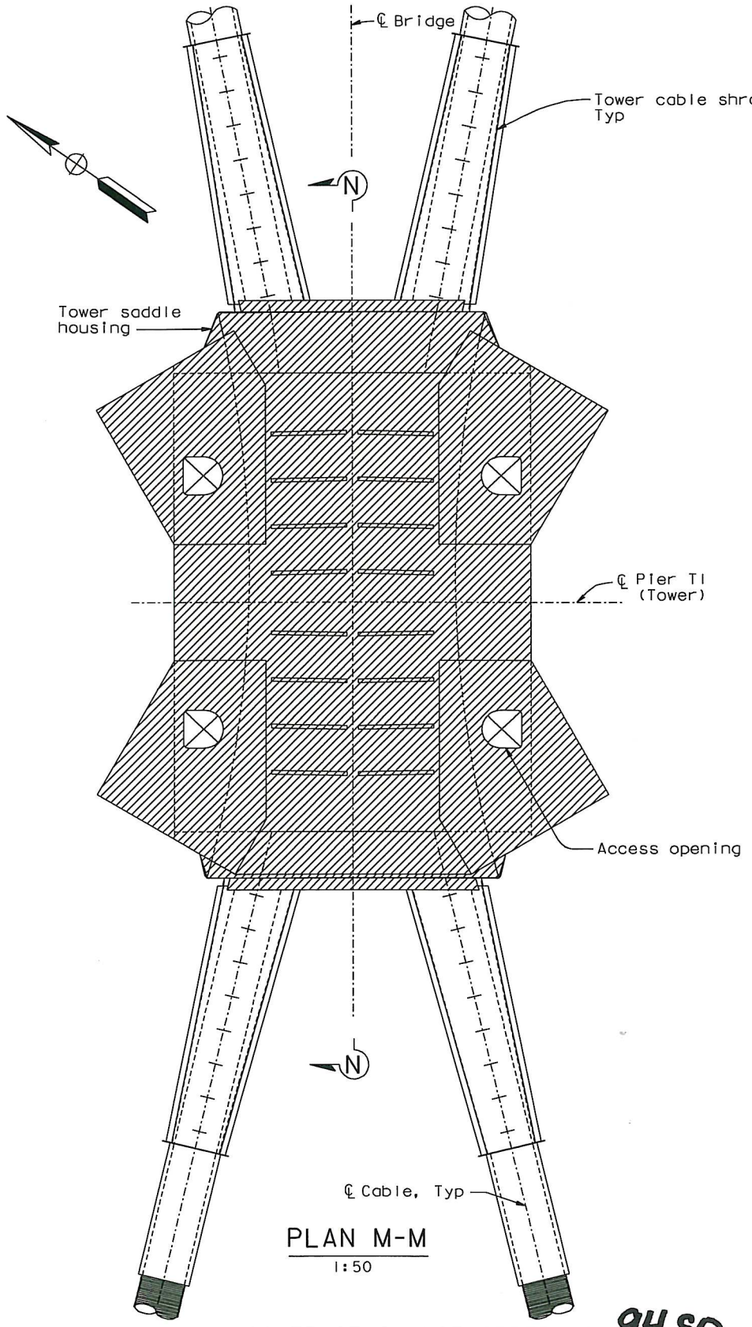

PLAN M-M
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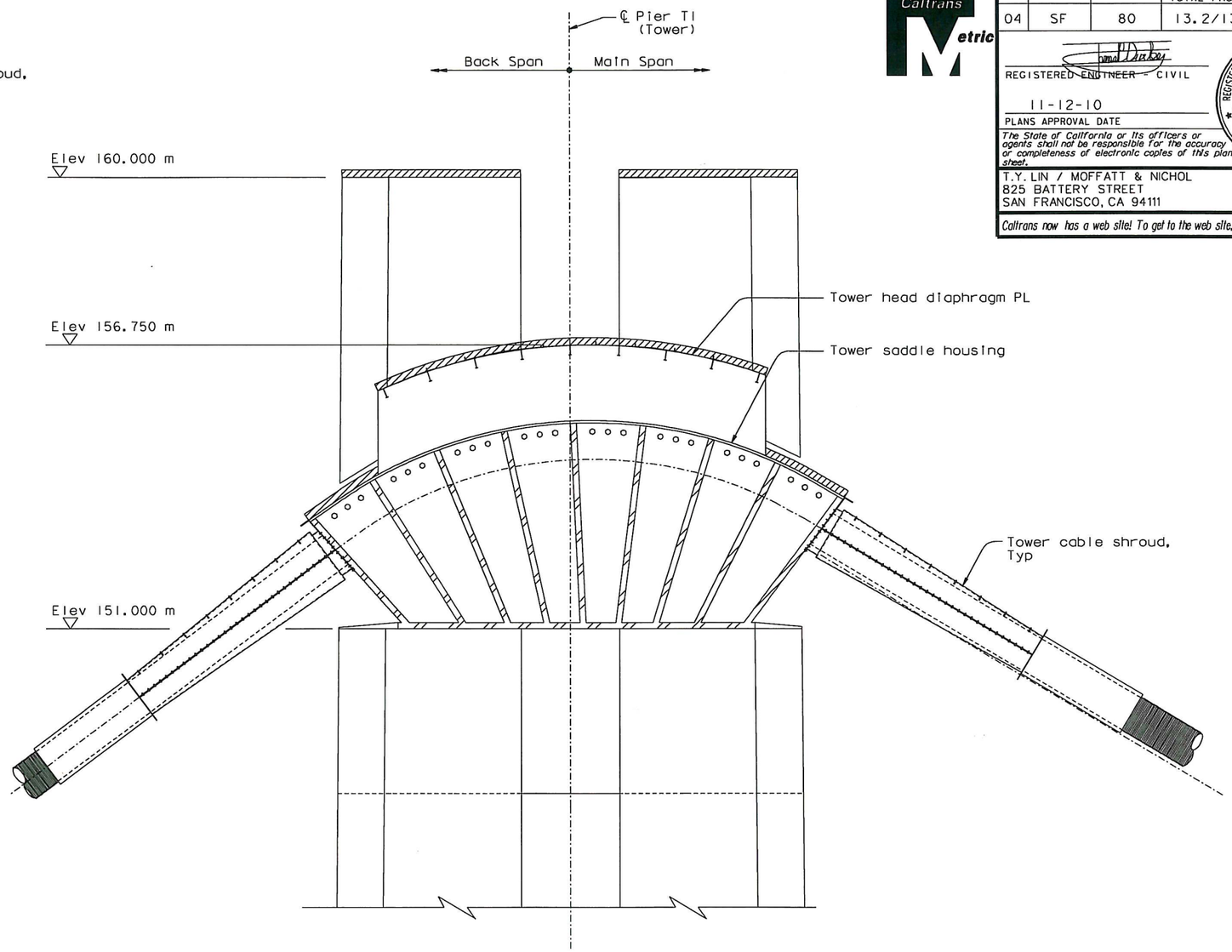

SECTION N-N
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LEGEND:

Non-skid coating

CONTRACT CHANGE ORDER NO. 9450
SHEET 9 OF 13

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Caltrans Metric

REGISTERED ENGINEER - CIVIL

11-12-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/11 — CIVIL — STATE OF CALIFORNIA

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DESIGN	N. Vo	J. Duxbury
DETAILS	N. Vo	J. Duxbury
QUANTITIES	N. Vo	J. Duxbury

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)

SUPPLEMENTARY TOWER NON-SKID SURFACE DETAILS NO. 5

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)											SHEET	OF
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Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	956S7R1	1204

REGISTERED ENGINEER - CIVIL

11-12-10
PLANS APPROVAL DATE

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

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SHEET 10 OF 13

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1	06/29/11	ADDITIONAL PAINTING	NV	JD	94
0	11/12/10	ADDITIONAL PAINTING	NV	JD	94

REVISIONS

DESIGN	BY N. Vo	CHECKED J. Duxbury
DETAILS	BY N. Vo	CHECKED J. Duxbury
QUANTITIES	BY N. Vo	CHECKED J. Duxbury

R. Vallzodeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Reza Vallzodeh / Vong Toan / Y. Liu
SIGN OFF DATE 06/29/11

Rev. Date: 5-18-98

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. 34-0006L/R
KILOMETER POST 13.2/13.9

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 11/12/10

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

SUPPLEMENTARY OBG NON-SKID SURFACE DETAILS NO. 1

SHEET 539S7R1 OF

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Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	956S8R1	1204

REGISTERED ENGINEER - CIVIL

11-12-10
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. 94 SO
SHEET 11 OF 13

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R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Reza Valizadeh / Vong Toan / Y. Liu
SIGN OFF DATE 06/29/11

MARK	DATE	REVISIONS	BY	CH'D	CCO#
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DESIGN	N. Vo	J. Duxbury
DETAILS	N. Vo	J. Duxbury
QUANTITIES	N. Vo	J. Duxbury

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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)
SUPPLEMENTARY OBG NON-SKID SURFACE DETAILS NO. 2

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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04	SF	80	13.2/13.9	956598R1	1204

REGISTERED ENGINEER - CIVIL

11-12-10
PLANS APPROVAL DATE

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

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SHEET 12 OF 13

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SIGN OFF DATE 06/29/11

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DETAILS	BY N. Vo	CHECKED J. Duxbury
QUANTITIES	BY N. Vo	CHECKED J. Duxbury

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R. Manzanarez
PROJECT ENGINEER

BRIDGE NO. 34-0006L/R
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SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

SUPPLEMENTARY OBG NON-SKID SURFACE DETAILS NO. 3

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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11/12/10										53959R1	

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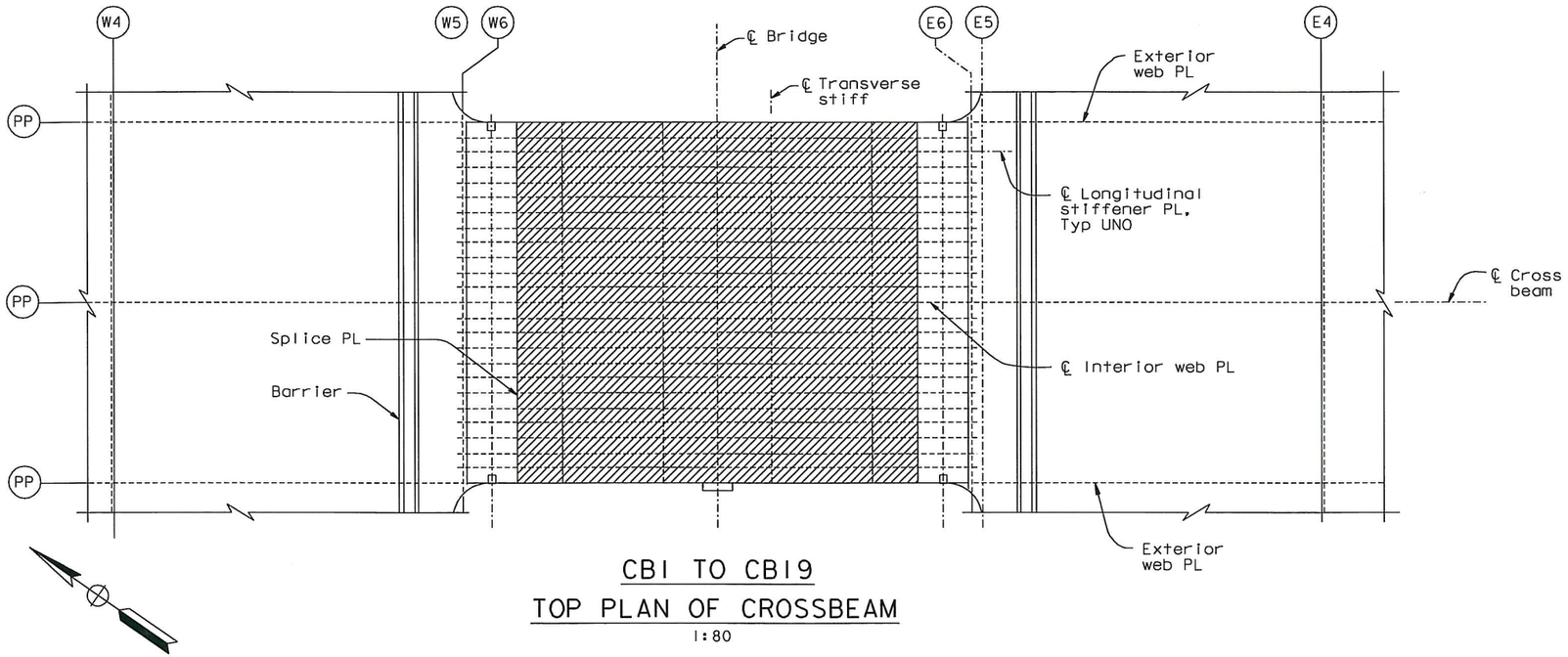
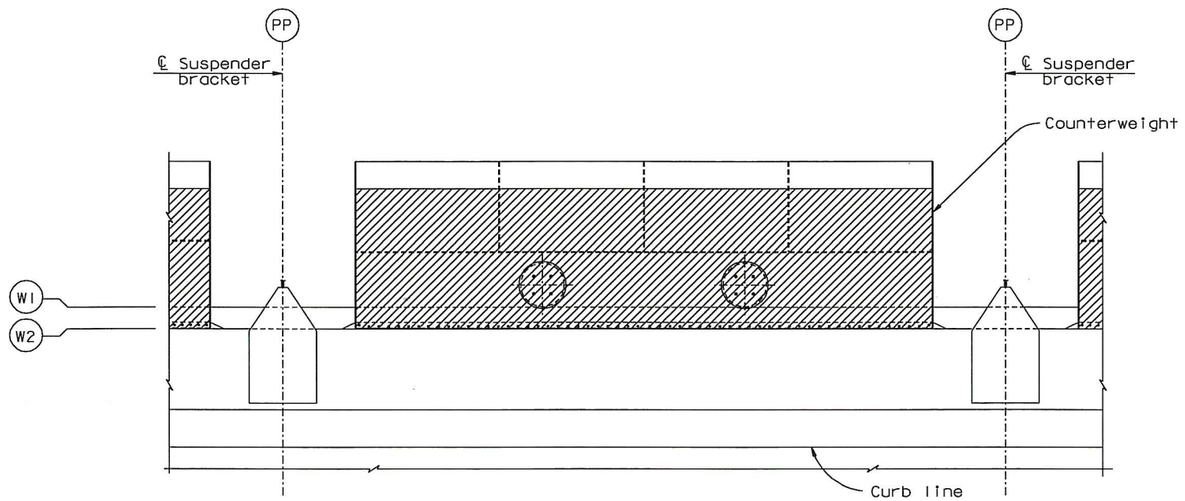


CB1 TO CB19

TOP PLAN OF CROSSBEAM

1:80



COUNTERWEIGHT DETAIL

1:40

LEGEND:

Non-skid coating

CONTRACT CHANGE ORDER NO. 9450

SHEET 13 OF 13

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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James P. Duxbury No. C 64677 Exp. 06/30/11 CIVIL

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DESIGN	N. Vo	J. Duxbury
DETAILS	N. Vo	J. Duxbury
QUANTITIES	N. Vo	J. Duxbury

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 11/12/10

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)

SUPPLEMENTARY OBG NON-SKID SURFACE DETAILS NO. 4

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): 11/12/10

SHEET 539S10 OF

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