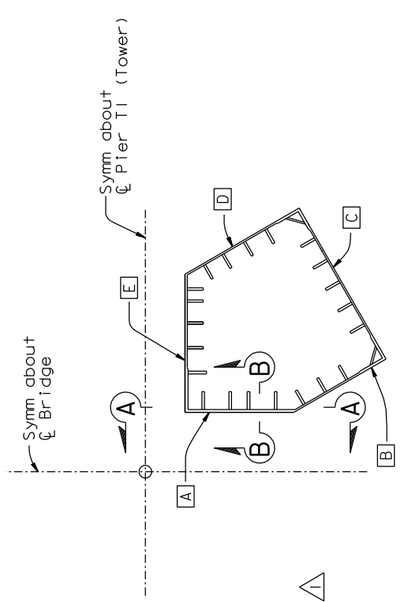
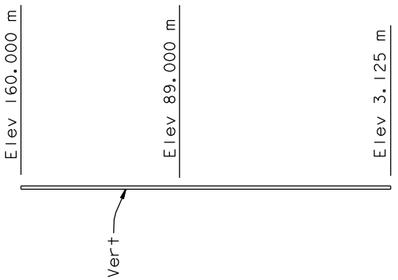



KEY PLAN




SECTION B-B
(Profile of Skin Plate "A")
(Longitudinal stiffener plates not shown for clarity)
Horiz=1:120
Vert =1:1200

Table 1

| STIFFENER DESIGNATION | CUTOFF ELEVATION (m) |
|---|---|
| A1 | 144.000 |
| A2 | 144.000 |
| A3 | 144.000 |
| A4 | 144.000 |

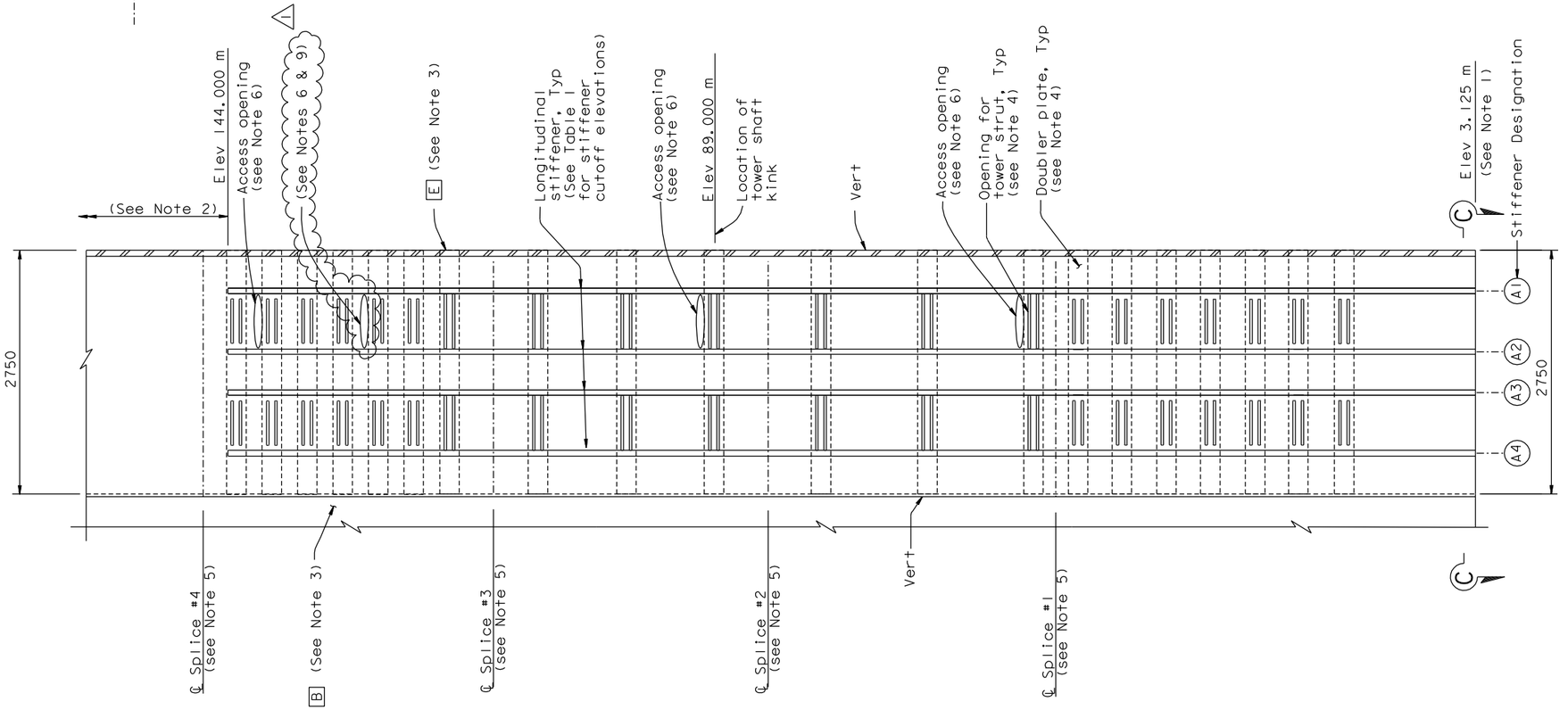
Table 2

| ELEVATION (m) | SKIN PL THICKNESS (mm) |
|---|---|
| 3.125-30.000 | 70 |
| 30.000-144.000 | 90 |

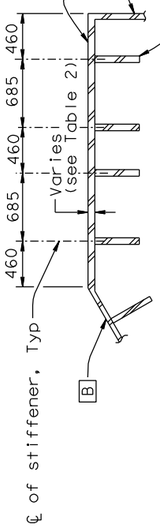
Table 3

| ELEVATION (m) | TYPICAL STIFFENER SIZE (mm x mm) | STIFFENER A1 SIZE (mm x mm) |
|---|---|---|
| 3.125-47.000 | 65x450 | 65x450 |
| 47.000-121.000 | 75x520 | 75x375 |
| 121.000-144.000 | 65x450 | 65x250 |

(See Note 7)




SECTION A-A
(Elevation of Skin Plate "A")
Horiz=1:30
Vert =1:300




SECTION C-C
(Partial plan of Skin Plate "A")
1:30
(See Note 8)

NOTES:

1. For tower anchorage details (not shown for clarity), see "Tower Anchorage Details" sheets.
2. For tower saddle grillage and tower head details (not shown for clarity), see "Tower Saddle Grillage Details" and "Tower Head Details" sheets.
3. Longitudinal stiffeners on tower skin PL B & E not shown for clarity.
4. For tower strut and doubler plate opening, see "Tower Shaft Details No.10" sheet.
5. For tower shaft splice details, see "Tower Splice Details" sheets.
6. For access openings details, see "Tower Access Details" sheets.
7. For longitudinal stiffener transition at tower splices, see sheets "Tower Splice Details No.7", "Tower Splice Details No.11", and "Tower Splice Details No.17".
8. Anchorage bearing stiffener plates are not shown for clarity. For details see "Tower Anchorage Details" sheets.
9. At the Contractor's option, additional access openings may be provided at locations shown.

100 % PS&E

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USERNAME => arivera

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

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| DIST. | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
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12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER * Marwan N. Nader * No. C 054426 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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|---|---|---|---|---|---|
| 1 | 05/25/11 | MISCELLANEOUS ELEVATOR DETAILS | TH | MN | 174 |

REVISIONS

| | 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

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 SHAFT DETAILS NO.3

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/25/11

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)
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SHEET 114R1 OF

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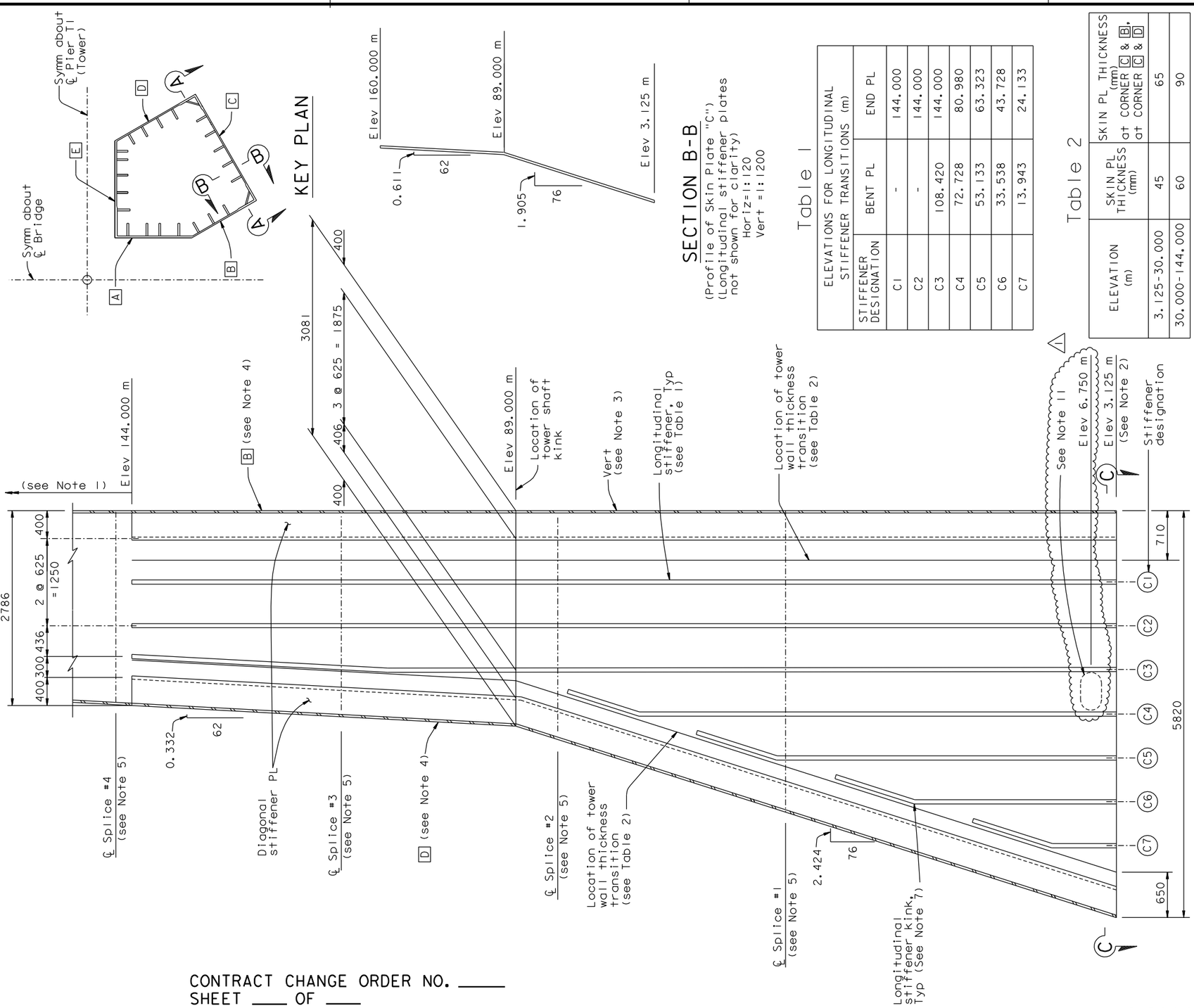


NOTES:

1. For tower saddle grillage and tower head details (not shown for clarity), see "Tower Saddle Grillage Details" and "Tower Head Details" sheets.
2. For tower anchorage details (not shown for clarity), see "Tower Anchorage Details" sheets.
3. The referenced edge of this plane is vertical in elevation only. This edge is not orthogonal to a horizontal plane.
4. Longitudinal stiffeners on tower skin PL B & D not shown for clarity.
5. For tower shaft splice details, see "Tower Splice Details" sheets.
6. For details of diagonal stiffener to tower skin plate connection, see Detail A on "Tower Splice Details No.2" sheet.
7. For longitudinal stiffener taper and kink details, see "Tower Splice Details No.2" sheet.
8. For longitudinal stiffener transition at tower splice, see "Tower Splice Details No.7", "Tower Splice Details No.17" and "Tower Splice Details No.19" sheets.
9. Anchorage bearing stiffener plates are not shown for clarity. For details see "Tower Anchorage Details" sheets.
10. For longitudinal stiffener kink at elevation 89.000 m see "Tower Diaphragm Details No.10" sheet.
11. At the Contractor's option, temporary access opening may be provided at location shown. The opening shall be closed with fill plate which shall be identical to the skin plate. The fill plate shall be CJP welded all around.

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

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REGISTERED PROFESSIONAL ENGINEER * Marwan N. Nader * No. C 054426 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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REVISIONS

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

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

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)

# TOWER SHAFT 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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

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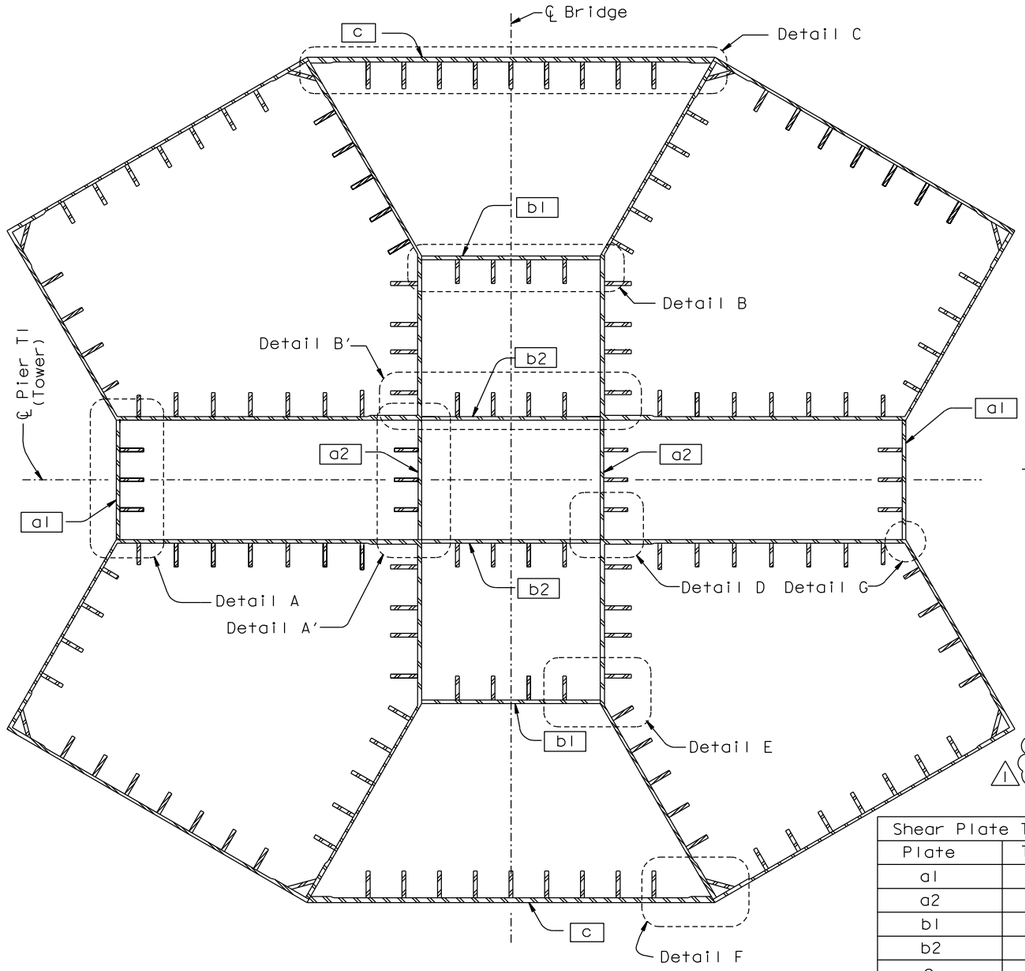


## TYPICAL TOWER BASE CROSS SECTION

(Between Elev 3.125 m and Elev 13.000 m)
1:50

NOTES:

1. For Details D, E, F, G, H, I and J, see "Tower Shaft Details No.9" sheet.
2. Longitudinal stiffeners of adjacent skin plates are not shown for clarity.
3. For tower diaphragm at Elev 9.000 m and 13 m, see "Tower Diaphragm Details No.11" sheet.
4. For diaphragm to shear plate connection details, see "Tower Diaphragm Details No.13" sheet.
5. For tower anchorage details, see "Tower Anchorage Details" sheets.
6. For access openings details, see "Tower Access Details" sheets.
7. For elevation of diaphragm at 13 m, see "Tower Drainage Detail No.3" sheet.
8. Access openings in tower base shear plate [c] shall be on East side of tower only.
9. At the Contractor's option, temporary access openings may be provided at locations shown in shear plates [a1] only. The openings shall be closed with fill plates which shall be identical to the respective shear plate. The fill plates shall be CJP welded all around. △1

| Shear Plate Thickness | |
|---|---|
| Plate | Thickness |
| a1 | 60 mm |
| a2 | 60 mm |
| b1 | 60 mm |
| b2 | 60 mm |
| c | 80 mm |
| c at corner | 100 mm |




## TOWER BASE SHEAR PLATE PROFILES

(Longitudinal stiffeners are not shown for clarity)
NTS

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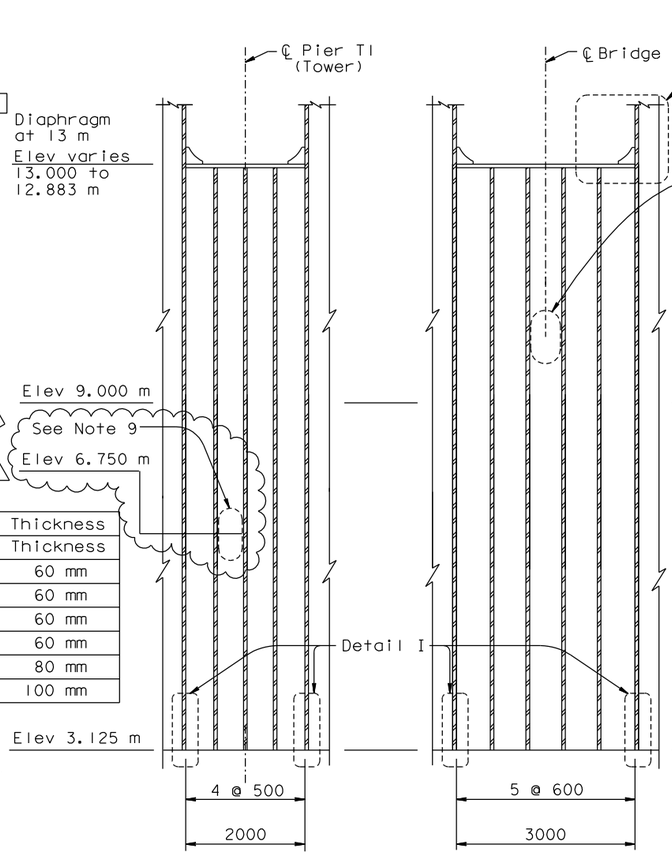


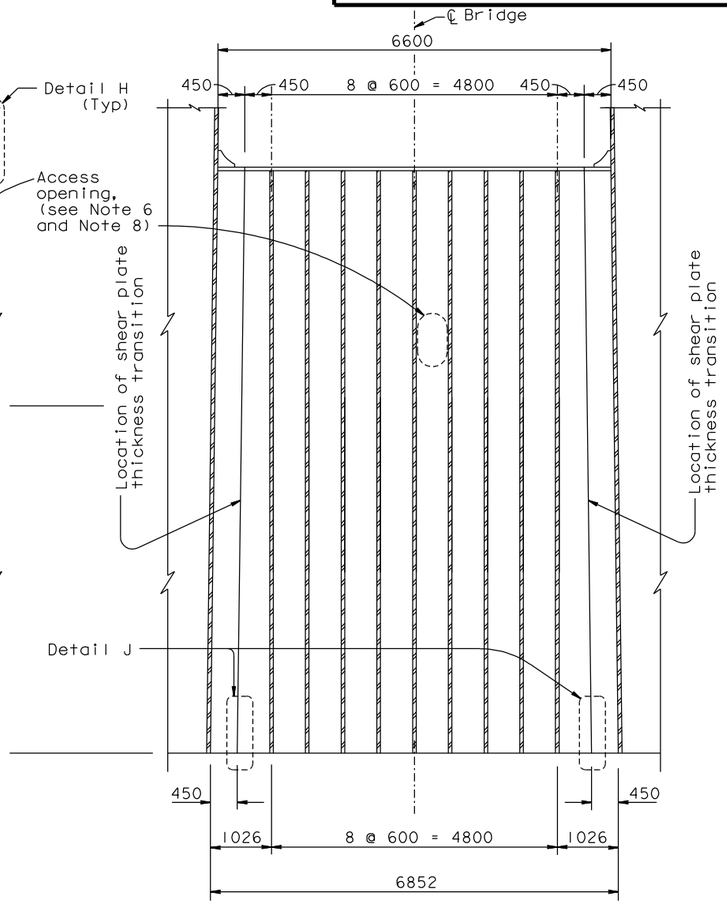

## SECTION A-A

1:50



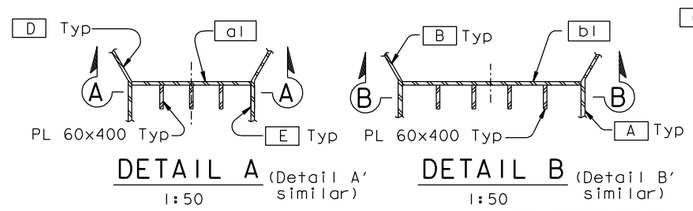

## SECTION B-B

1:50




## SECTION C-C

1:50



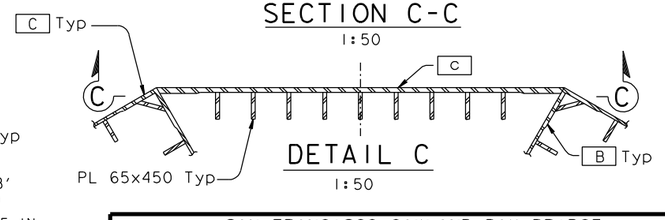

## DETAIL A (Detail A' similar)

1:50




## DETAIL B (Detail B' similar)

1:50




## DETAIL C

1:50

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Marwan N. Nader
No. C 054426
Exp. 12/31/11
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STATE OF CALIFORNIA

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(SUPERSTRUCTURE & TOWER)

# TOWER SHAFT DETAILS NO.8

| MARK | DATE | DESCRIPTIONS | BY | CH'D | CCO# |
|---|---|---|---|---|---|
| △1 | 12/10/10 | MISCELLANEOUS ELEVATOR DETAILS | TH | MN | 174 |

REVISIONS

| | 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

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

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

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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EA 0120F1

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| REVISION DATES (PRELIMINARY STAGE ONLY) | | | | | | | | | |
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SHEET 119R1 OF

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DATE PLOTTED => 10 DEC 2010
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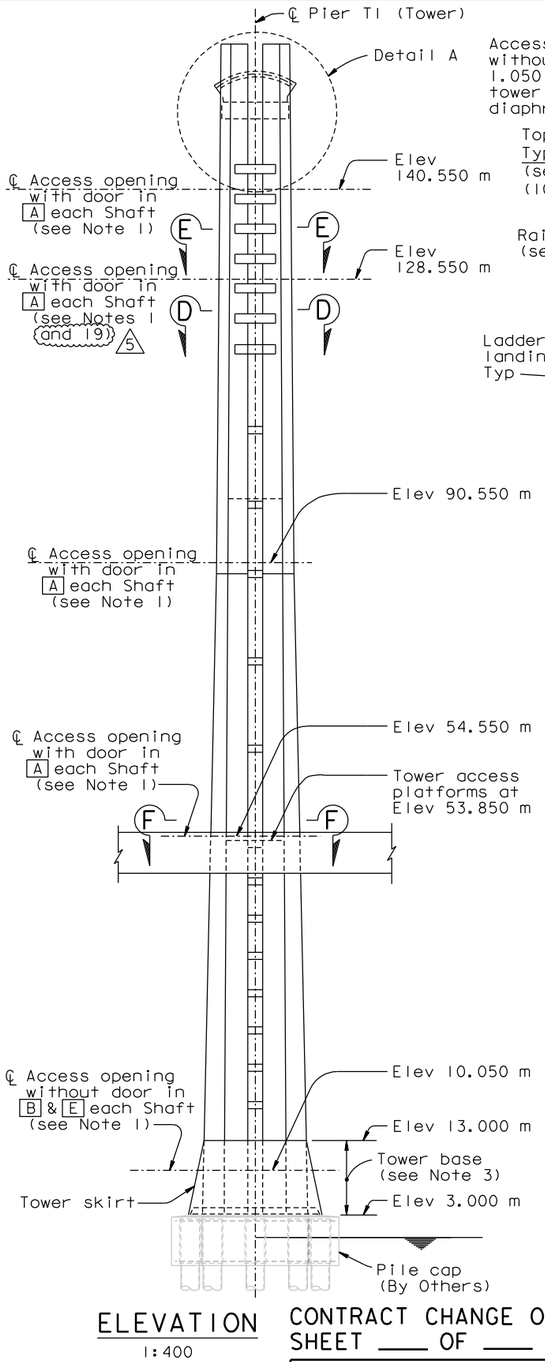
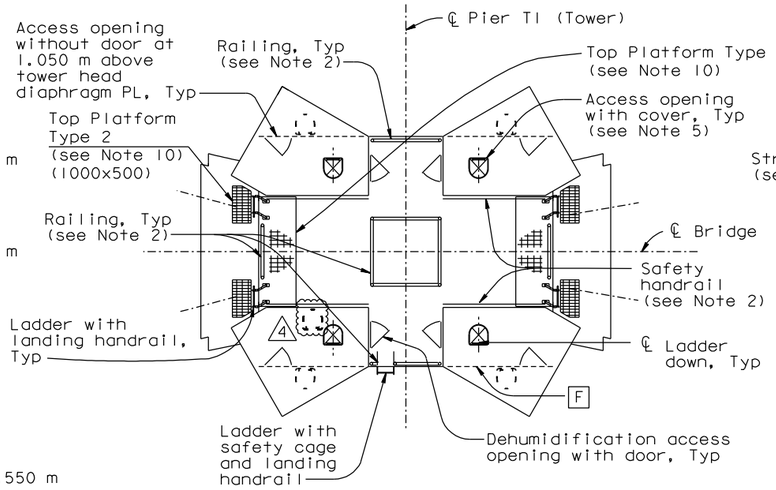



## ELEVATION

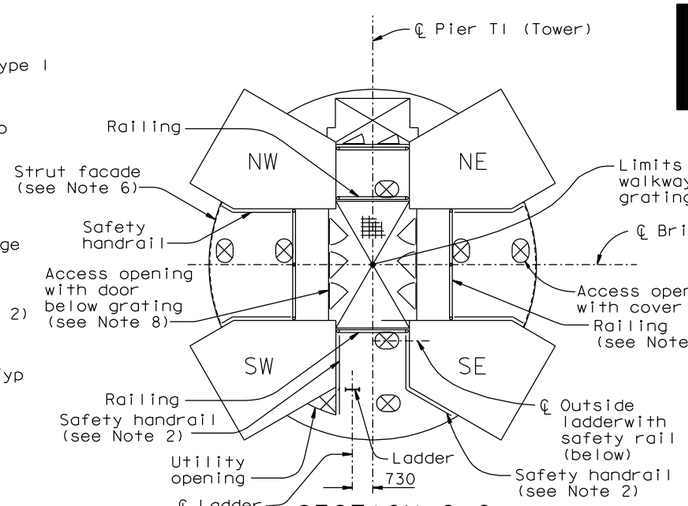
1:400

(Looking North)



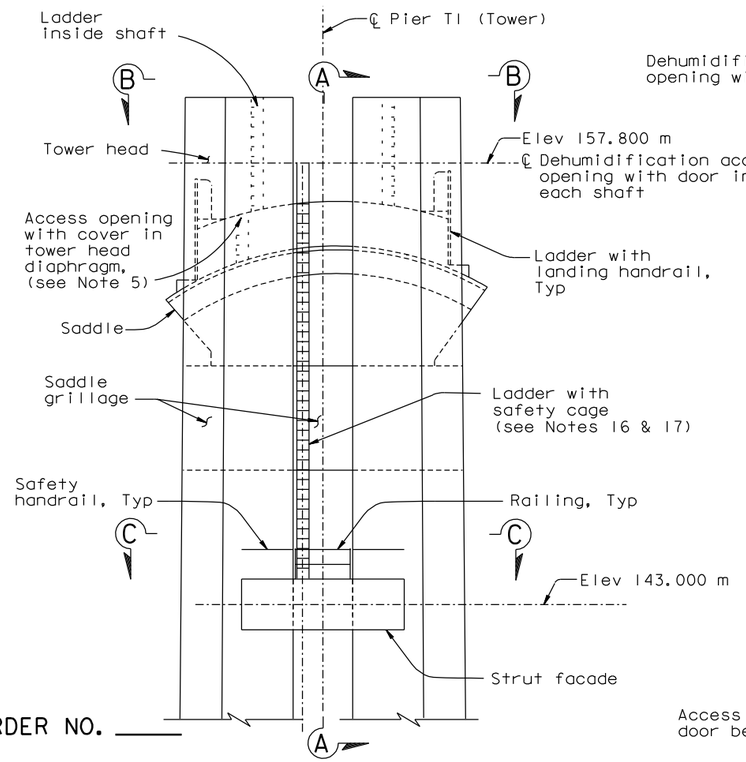

## VIEW B-B (See Notes 7 & 18)

1:80



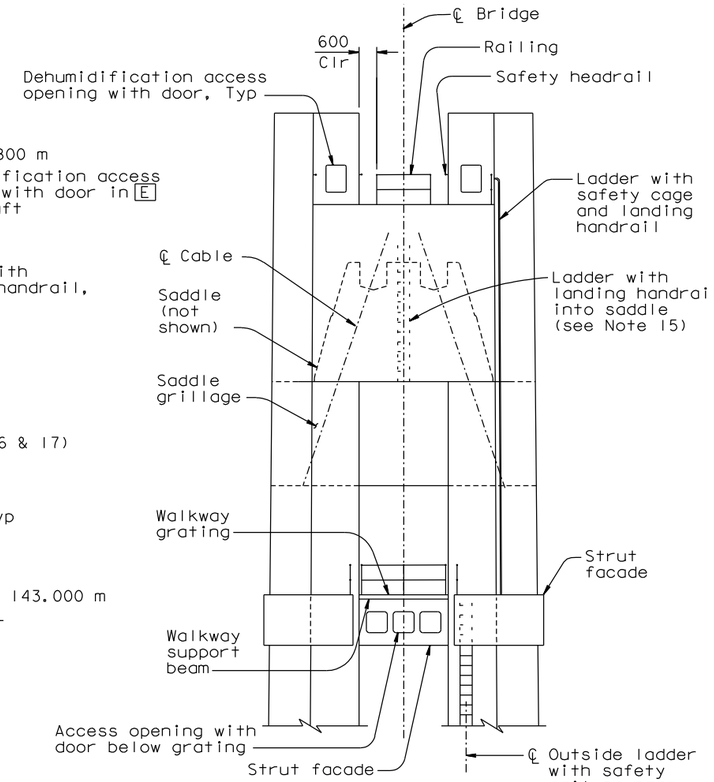

## SECTION C-C

1:80




## DETAIL A

1:100




## SECTION A-A

1:100

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

LEGEND:

- Access opening (see Notes 1, 3, 8 & 14)
- A Tower shaft skin plate A

NOTES:

1. For location of access openings in tower shafts, see "Tower Shaft Details" sheets.
2. For railing and safety handrail details, see "Tower Access Details No. 8" sheet.
3. For additional access details in tower base, see "Tower Access Details No. 2" sheet.
4. For ladder details not shown, see "Tower Access Details No. 7" sheet.
5. For access opening details, see Detail E on "Tower Access Details No. 8" sheet. For cover details, see "Tower Access Details No. 9" sheet.
6. For strut facade, see "Tower Strut Facade Details" sheets.
7. For location of access openings in tower head, see "Tower Head Details" sheets.
8. For access opening and door details, see "Tower Access Detail No. 4" sheet. Access openings are without door unless noted otherwise.
9. For Section D-D and E-E, see "Tower Access Details No. 3" sheet.
10. For Top Platform Types 1 and 2, see "Tower Access Detail No. 9" sheet.
11. For Section F-F, see "Tower Access Details No. 10" sheet.
12. For walkway grating and support beam, see "Tower Access Details No. 3" sheet.
13. For access opening cover details, see "Tower Access Details No. 9" sheet.
14. For location of access openings in strut facade, see "Tower Strut Facade Details" sheets.
15. For location of saddle access opening and ladder, see "Tower Saddle Housing Details" sheets.
16. At locations where ladder lengths exceed 6.5 meters, contraction joints shall be provided. Ladder length is defined as the distance between the centerlines of the top and bottom end supports. Contraction joints shall be located below ladder supports unless noted otherwise. For contraction joint details, see "Tower Access Details No. 7" sheet.
17. Ladder supports shall be spaced at 6 meters maximum.
18. For ladder, railing and safety handrail, and top platform details not shown, see "Tower Access Details No. 1A" sheet.
19. 5 At the Contractor's option, additional access openings may be provided at these elevations.

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| 5 | 05/25/11 | MISCELLANEOUS ELEVATOR DETAILS | NV | MN | 174 |
| 4 | 10/29/10 | DOORS AND LADDER CAGES | NV | MN | 118 |
| 3 | 10/22/10 | TOWER HEAD DETAILS | NV | MN | 93 |
| 2 | 07/17/09 | ELEVATOR DETAILS | TH | MN | 85 |
| 1 | 07/18/08 | TOWER ACCESS | NV | MN | 65 |

REVISIONS

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/25/11

Rev. Date: 5-18-98

| | BY | CHECKED |
|---|---|---|
| DESIGN | M. Nader | M. Gulyas |
| DETAILS | G. Baker | L. Rus |
| QUANTITIES | D. Turner | J. Leventini |

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

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12-6-04
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No. C 054426
Exp. 12/31/11
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(SUPERSTRUCTURE & TOWER)

# TOWER ACCESS DETAILS NO. 1

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

REVISION DATES (PRELIMINARY STAGE ONLY): 05/15/99 | 08/02/99 | 05/31/01 | 04/08/02 | 07/01/02 | 12/19/02 | 10/12/04

SHEET 500R5 OF

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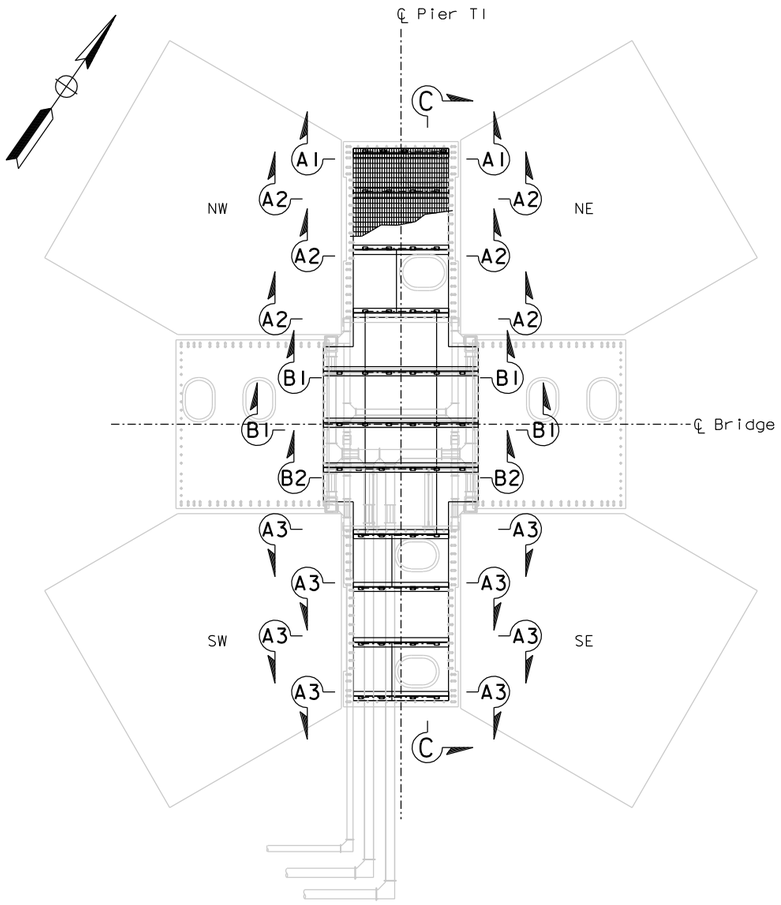
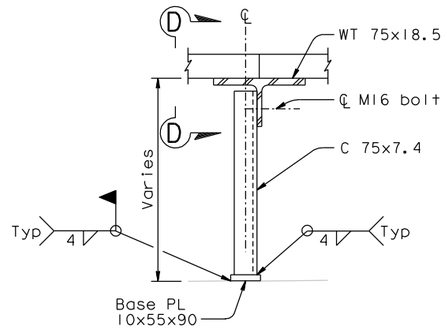
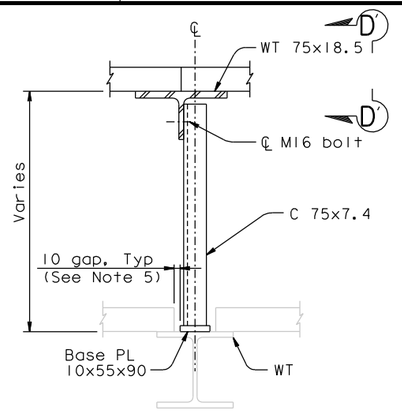


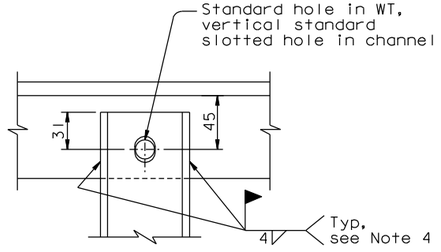

GRATING SUPPORT
KEY PLAN ABOVE EL 53.85 (See Note 3)
1:50




DETAIL A
1:5

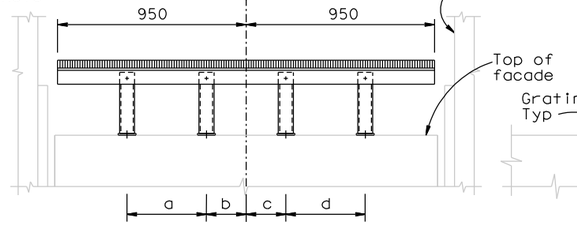



DETAIL B
1:5



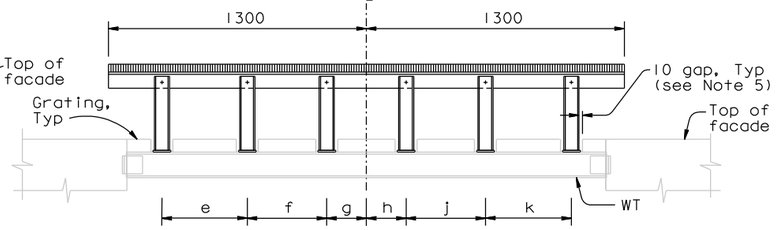

SECTION D-D (D'-D' SIMILAR)
1:2.5

| | a | b | c | d |
|---|---|---|---|---|
| A1 | 650 | 60 | 300 | 300 |
| A2 | 400 | 200 | 200 | 400 |
| A3 | 400 | 200 | 325 | 350 |

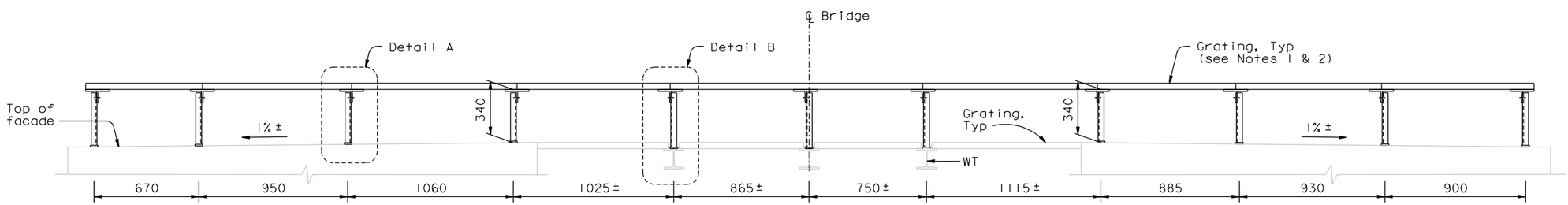



SECTION A-A
1:15

| | e | f | g | h | j | k |
|---|---|---|---|---|---|---|
| B1 | 430 | 400 | 200 | 200 | 400 | 430 |
| B2 | 320 | 385 | 325 | 200 | 400 | 430 |




SECTION B-B
1:15




SECTION C-C
1:15

NOTES:

1. The Contractor shall provide fiberglass grating with fasteners. The grating shall be rated to support 5 kN/m2 loading with deflection not greater than 1 mm.
2. The top of the grating shall be level.
3. For Removable Gratings Plan, see "Tower Access Details No.26" and "Tower Access Details No.27" sheets.
4. Welding of channel to WT shall be performed after top of WT is level.
5. Cut grating to provide clearance for grating support posts.

| DIST. | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 938S3 | 1204 |

REGISTERED ENGINEER - CIVIL
Tien Hung Ho
No. C 43990
Exp. 06/30/11
CIVIL
STATE OF CALIFORNIA
03-25-11
PLANS APPROVAL DATE

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825 BATTERY STREET
SAN FRANCISCO, CA 94111

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CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

*REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE*

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 03/29/11

| MARK | DATE | REVISIONS DESCRIPTIONS | BY | CH'D | CCO# |
|---|---|---|---|---|---|
| 0 | 03/25/11 | MISCELLANEOUS ELEVATOR DETAILS | TH | NV | 174 |

| | BY | CHECKED |
|---|---|---|
| DESIGN | T. Ho | N. Vo |
| DETAILS | C. Neff | A. Baumberger |
| QUANTITIES | C. Neff | A. Baumberger |

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)

# TOWER ACCESS DETAILS NO. 25

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): 03/25/11

SHEET 52IS3 OF

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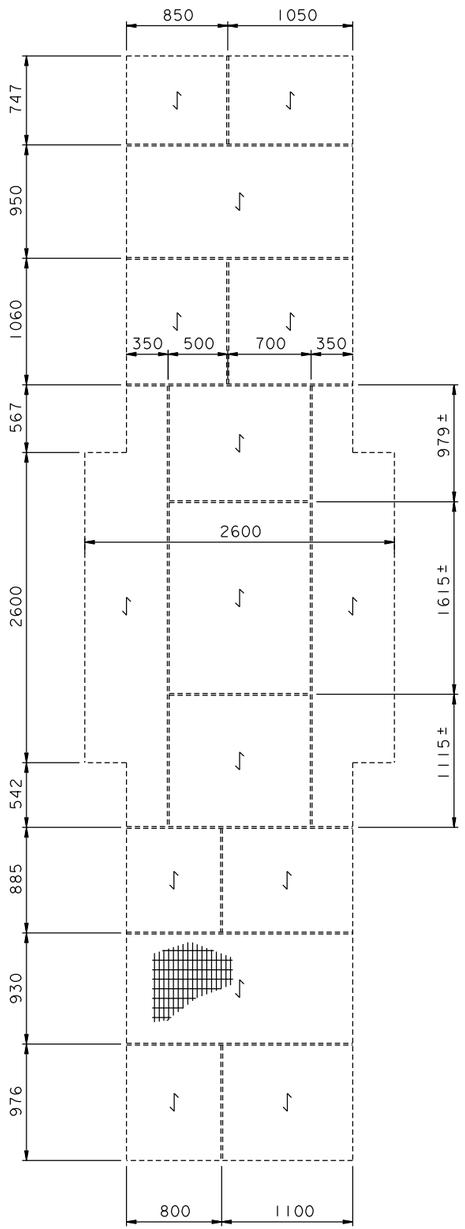
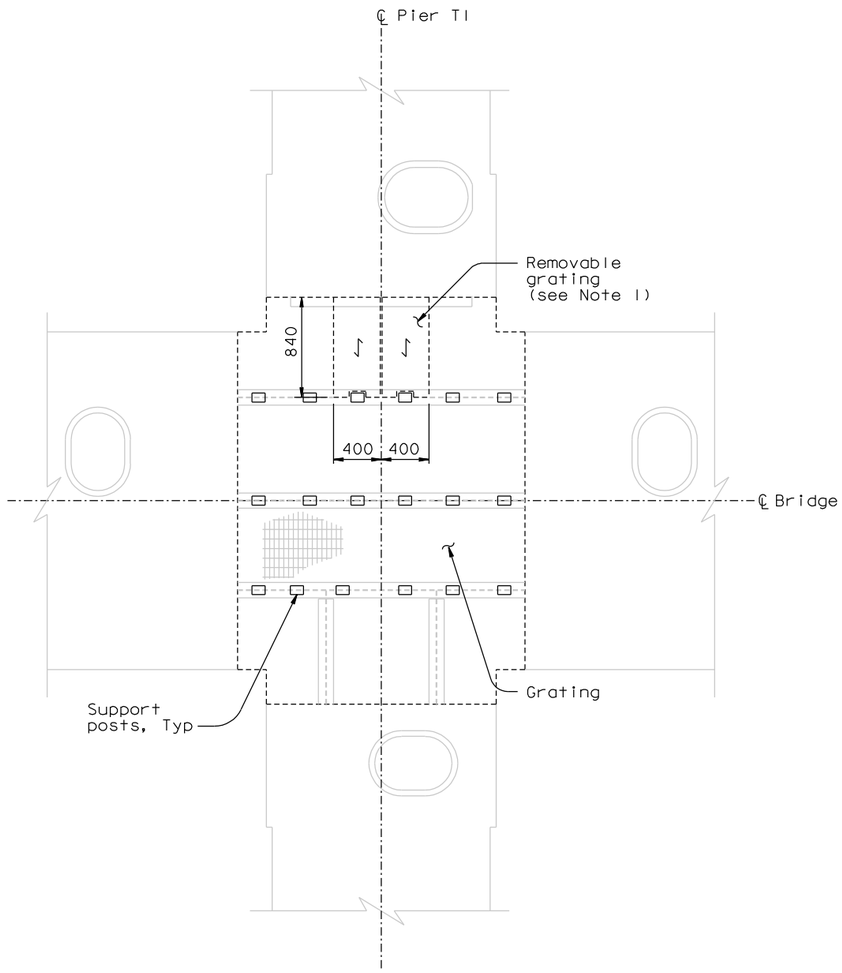



REMOVABLE GRATING
PLAN ABOVE EL 53.85
1:25




REMOVABLE GRATING
PLAN @ EL 53.85
1:25

LEGEND:

Direction of bearing bars

or Grating edges

NOTES:

1. Modify the grating to create a removable panel at indicated location.

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

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 | 938S4 | 1204 |

REGISTERED ENGINEER - CIVIL

Tien Hung Ho
No. C 43990
Exp. 06/30/11
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

03-25-11
PLANS APPROVAL DATE

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| MARK | DATE | REVISIONS | BY | CH'D | CCO# |
|---|---|---|---|---|---|
| 0 | 03/25/11 | MISCELLANEOUS ELEVATOR DETAILS | TH | NV | 174 |

| | | | |
|---|---|---|---|
| DESIGN | BY T. Ho | CHECKED N. Vo | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION |
| DETAILS | BY C. Neff | CHECKED A. Baumberger | |
| QUANTITIES | BY C. Neff | CHECKED A. Baumberger | |

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 03/24/11

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 → 03/25/11

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

# TOWER ACCESS DETAILS NO. 26

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 521S4 OF

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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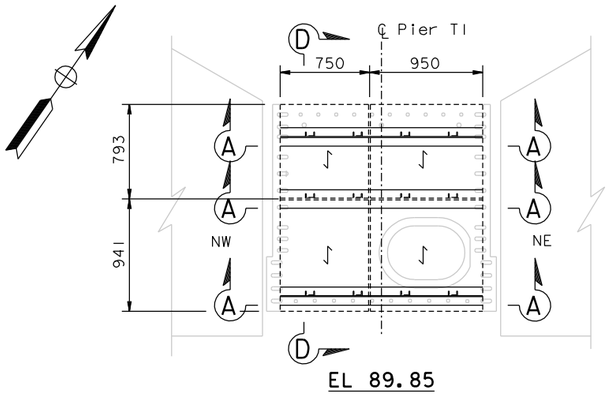
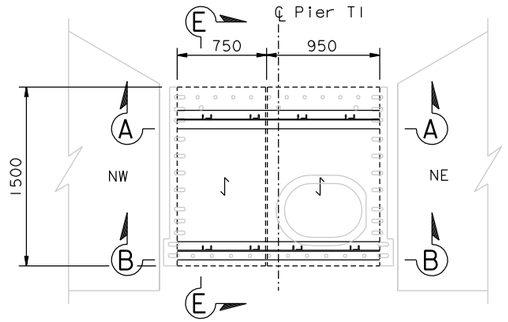
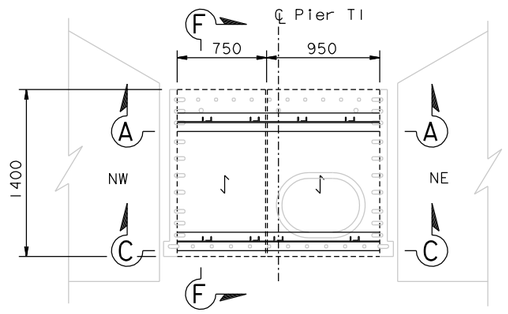



EL 89.85



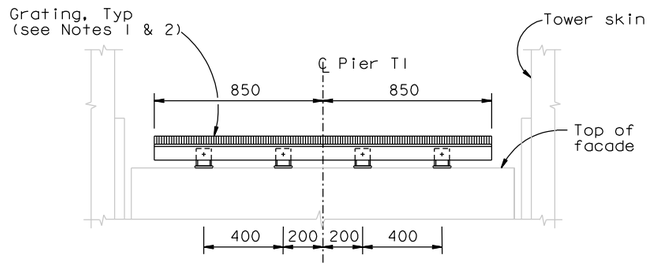

EL 127.85




EL 139.85

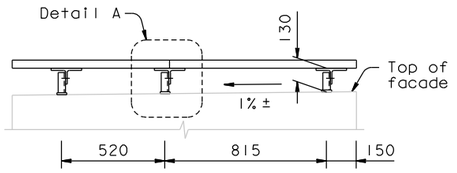
## PLAN AT TOP OF REMOVABLE GRATING

1:25



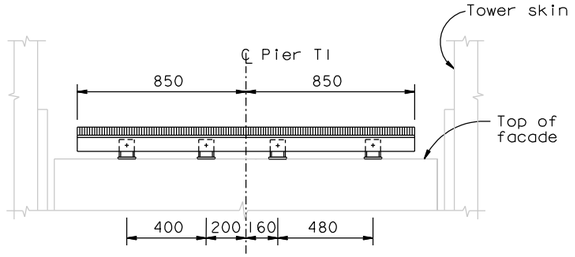

## SECTION A-A

1:15



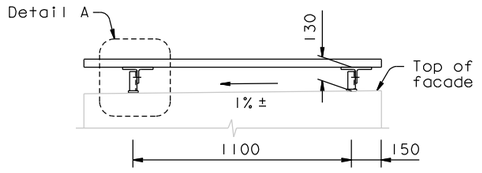

## SECTION D-D

1:15



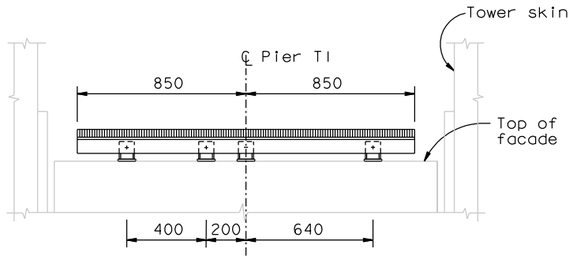

## SECTION B-B

1:15



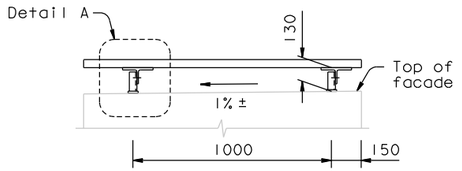

## SECTION E-E

1:15



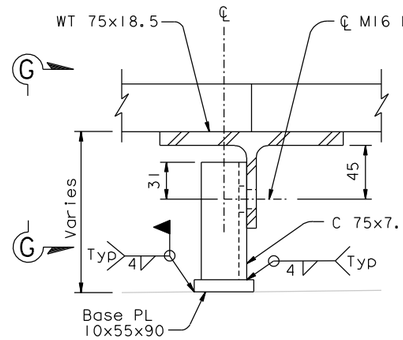

## SECTION C-C

1:15



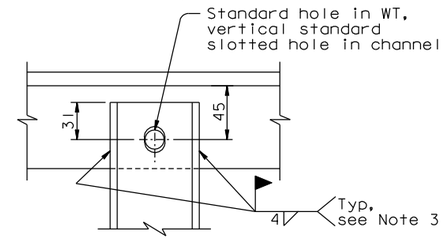

## SECTION F-F

1:15




## DETAIL A

1:2.5




## SECTION G-G

1:2.5

LEGEND:

Direction of bearing bars

or Grating edges

NOTES:

1. The Contractor shall provide fiberglass grating with fasteners. The grating shall be rated to support 5 kN/m2 loading with deflection not greater than 1 mm.
2. The top of the grating shall be level.
3. Welding of channel to WT shall be performed after top of WT is level.

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

*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 | 938S5 | 1204 |

Caltrans Metric

REGISTERED ENGINEER - CIVIL

Tien Hung Ho No. C 43990 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

03-25-11
PLANS APPROVAL DATE

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| MARK | DATE | DESCRIPTIONS | BY | CH'D | CCO# |
|---|---|---|---|---|---|
| 0 | 03/25/11 | MISCELLANEOUS ELEVATOR DETAILS | TH | NV | 174 |

REVISIONS

| | BY | | CHECKED |
|---|---|---|---|
| DESIGN | T. Ho | | N. Vo |
| DETAILS | C. Neff | | A. Baumberger |
| QUANTITIES | C. Neff | | A. Baumberger |

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 03/25/11

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)

# TOWER ACCESS DETAILS NO. 27

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): 03/25/11

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