DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	474RI	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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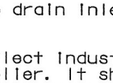
GENERAL:

1. For "W2 Cap Beam Reinforcement Details" sheets, the Contractor shall verify all controlling field dimensions before ordering or fabricating any material. Reinforcement details reflect strict adherence to the location of pier column reinforcement defined on "Pier W2 Details No. 5" sheet.
2. Spacing dimensions are plumb unless noted otherwise.
3. Reinforcement spacing may be adjusted to avoid PT ducts if required.
4. Contractor shall adjust reinforcing to account for slope transitions, overhangs, and blockouts.
5. Contractor may adjust location of the drain inlets to avoid interference with reinforcing and/or PT ducts.
6. Post-Tensioning anchorage details reflect industry standard geometry. Actual dimensions may vary depending on supplier. It shall be the Contractor's responsibility to accommodate the actual system to the plan geometry.
7. Local confining spiral reinforcement for tendon anchors shall be provided by PT tendon hardware suppliers; not shown for clarity.
8. Contractor shall remove the corrosion protection from all reinforcing above the pier top slab prior to pouring the W2 cap beam concrete.
9. Adequate fabrication and placement of all permanently embedded items may require more stringent tolerances than ordinary industry standards. It shall be the Contractor's responsibility to ascertain the adequate fabrication and placement of all permanently embedded items within the geometric constraints of the plans.

CROSS-REFERENCES:

1. For tie-down cable top access slab reinforcement details, see "Cable Tie-Down Details" sheets.
2. For bikepath connection details, see "Bikepath Details" sheets.
3. For blockout reinforcement, see "W2 Cap Beam Blockout Details" sheets.
4. For epoxy AC overlay limits, see "W2 Cap Beam Reinforcement Details No. 49" sheet.
5. For jacking frame blocking, see "West Jacking Frame Details" sheets.
6. For layer identification, see "W2 Cap Beam Reinforcement Details No. 6, No. 16, No. 22 and No. 25" sheets.

DETAILS:

1. All reinforcing steel shall be ASTM A706, Grade 420.
2. Typical clear cover to skin reinforcement is 80 mm.
3. At locations where reinforcement is cut to clear embeds, PT and blockouts, the typical clearance is 80 mm.
4. Non-Contact Splice:
   a. Max non-contact lap splice=150 mm 

   b. Min lap length for #19 = 500 mm
   c. Min lap length for #25 = 1100 mm
   d. Min lap length for #29 = 1500 mm
5. Locations of bar lap splices and/or mechanical splices not shown for clarity; splices in adjacent reinforcement shall be staggered.
6. At the Contractor's option, lapped reinforcement shown on the plans may be substituted with continuous reinforcement.

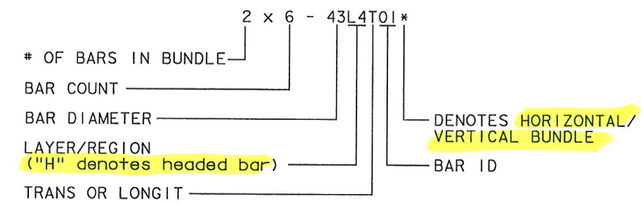
REINFORCEMENT INDEX:

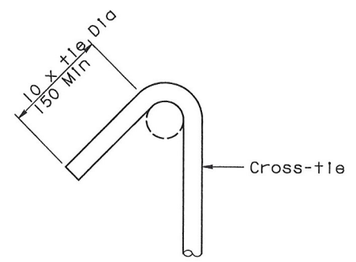
1. For top mat reinforcement, see "W2 Cap Beam Reinforcement Details No. 2 to No. 8" sheets.
2. For bottom mat reinforcement, see "W2 Cap Beam Reinforcement Details No. 9 to No. 18" sheets.
3. For transverse reinforcement, see "W2 Cap Beam Reinforcement Details No. 19 to No. 25" sheets.
4. For diaphragm reinforcement, see "W2 Cap Beam Reinforcement Details No. 26 to No. 29" sheets.
5. For jacking saddle reinforcement, see "W2 Cap Beam Reinforcement Details No. 30 to No. 33" sheets.
6. For skin reinforcement, see "W2 Cap Beam Reinforcement Details No. 34 to No. 39" sheets.
7. For horizontal and vertical stirrup reinforcement, see "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.
8. For column region reinforcement, see "W2 Cap Beam Reinforcement Details No. 44 to No. 47" sheets.
9. For miscellaneous reinforcement, see "W2 Cap Beam Reinforcement Details No. 48 to No. 49" sheets.
10. For barlist and schedules, see "W2 Cap Beam Reinforcement Details No. 50 to No. 52" sheets.

BARLIST SCHEDULES:

Barlist schedules are provided for general guidance, and shall not be used as a basis for quantity estimates. Information provided in "W2 Cap Beam Reinforcement Details" sheets and "W2 Cap Beam Blockout Details" sheets shall govern the Barlist schedules. The Contractor shall reference these plans to develop barlist schedules for quantity estimation. Barlist schedules shall not be used for fabrication purposes. Final weights, lengths, and geometries shall be the responsibility of the Contractor.

KEY TO BAR NOMENCLATURE:





135° SEISMIC TIE HOOK

No scale

LEGEND:

- Denotes headed bar reinforcement
- Denotes opening
- Symmetric

ABBREVIATIONS

ES	Each Side
Longit	Longitudinal
Nom	Nominal
Opp	Opposite
Spa	Spaces
Trans	Transverse
Var	Varies
UNO	Unless Noted Otherwise

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MARK	DATE	DESCRIPTIONS	BY	CH'D
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1	07/21/06	W2 CAP BEAM ISD	JD	AS

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

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R. Vallzadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

Rev. Date: 5-18-98

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

CU 04
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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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 1

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

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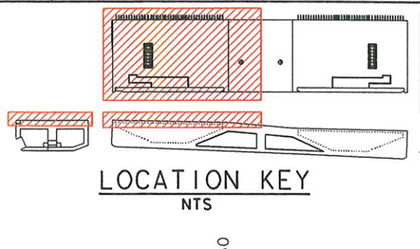
SHEET ___ OF ___

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.6" sheet.
2. For Section C-C thru E-E, see "W2 Cap Beam Reinforcement Details No.7" sheet.
3. For Section F-F, see "W2 Cap Beam Reinforcement Details No.8" sheet.



LOCATION KEY
NTS

Caltrans Metric

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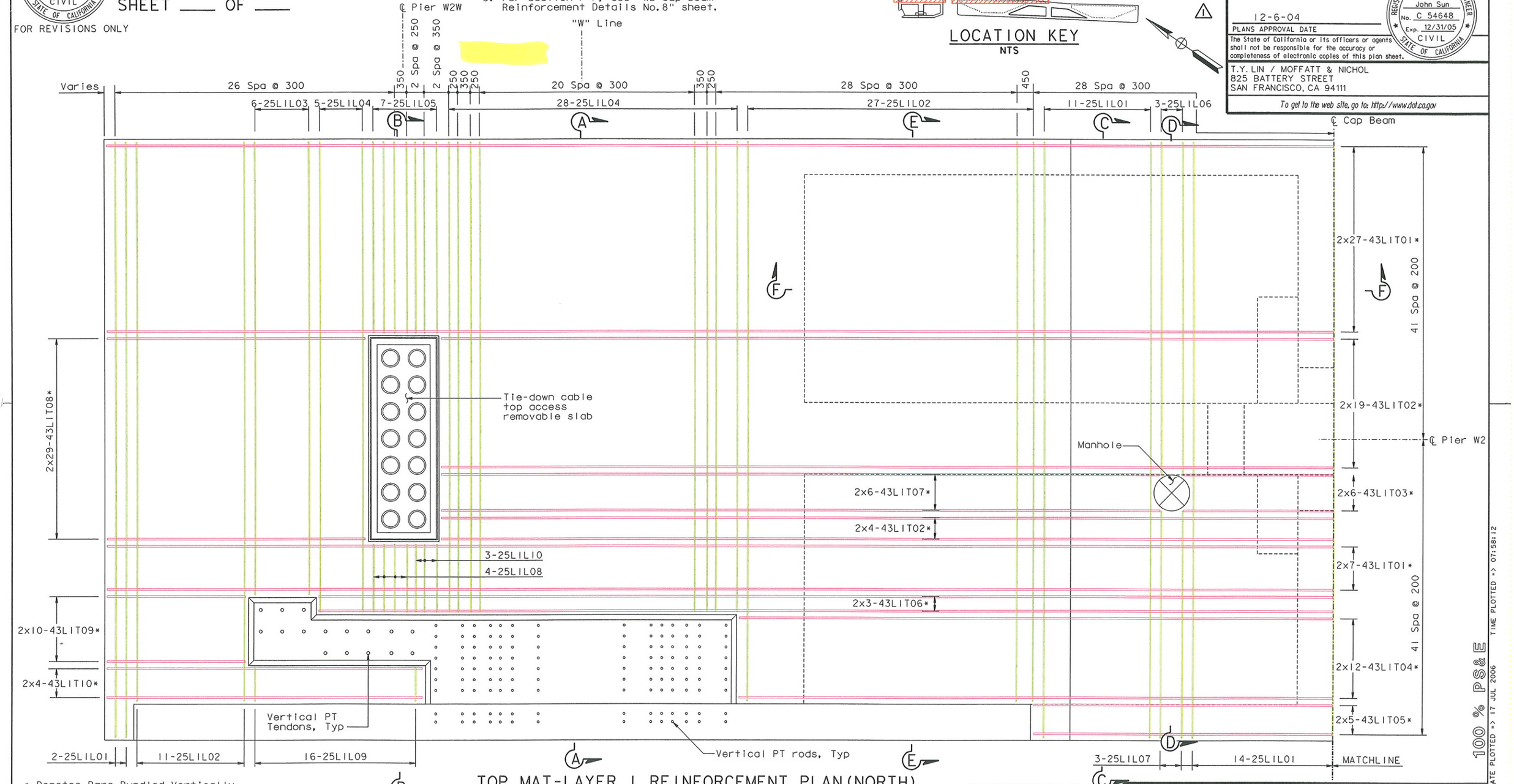

* Denotes Bars Bundled Vertically

TOP MAT-LAYER 1 REINFORCEMENT PLAN (NORTH)

1:50

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DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE (SUPERSTRUCTURE & TOWER)

W2 CAP BEAM REINFORCEMENT 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

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		REVISIONS		

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SHEET ___ OF ___

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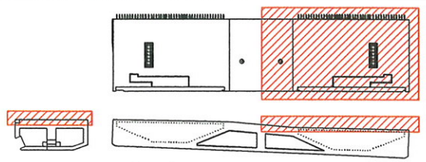
NOTES:

1. For Section G-G, see "W2 Cap Beam Reinforcement Details No.8" sheet.



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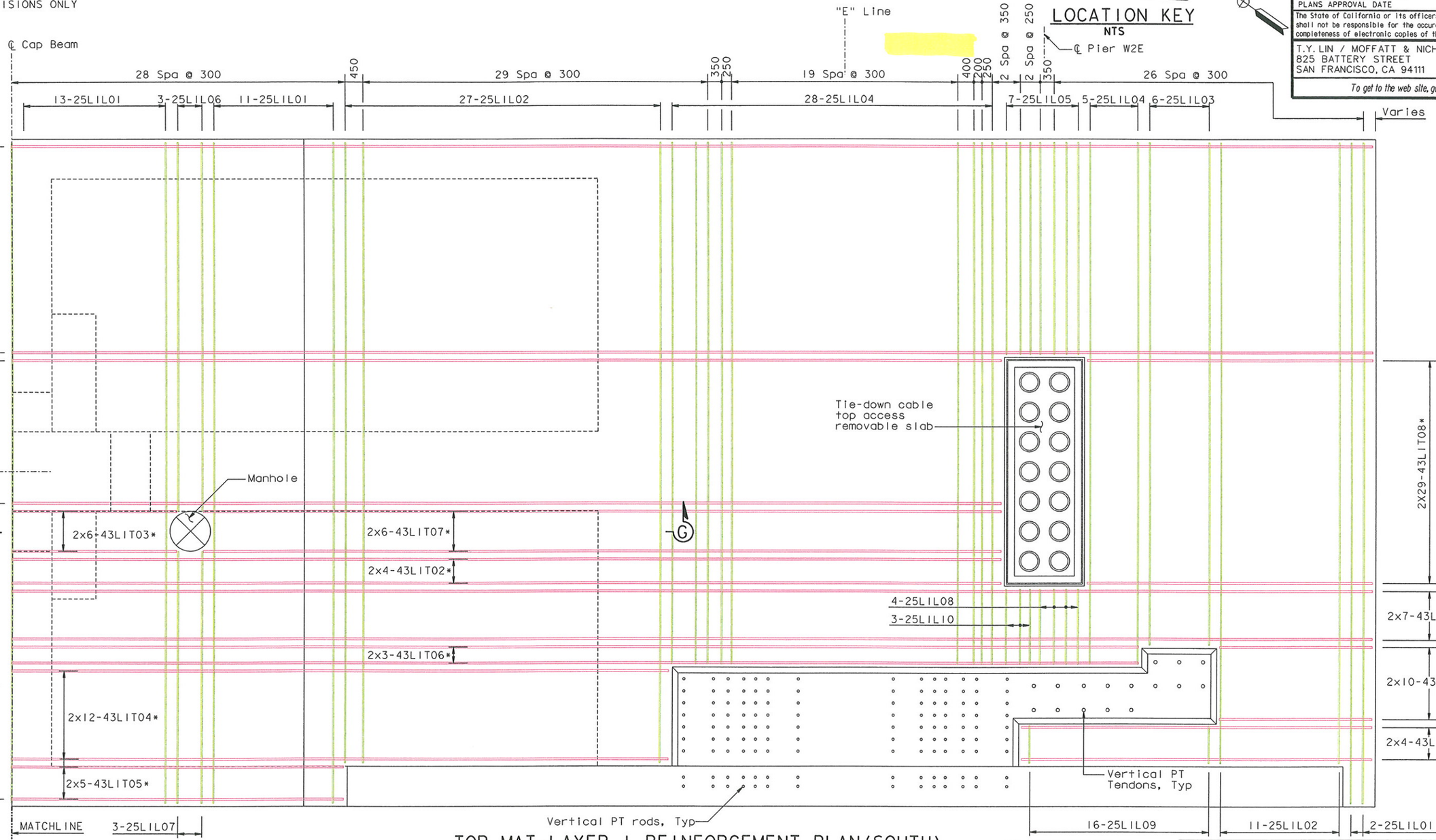

* Denotes Bars Bundled Vertically

TOP MAT-LAYER 1 REINFORCEMENT PLAN (SOUTH)
1:50

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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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)

W2 CAP BEAM REINFORCEMENT 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

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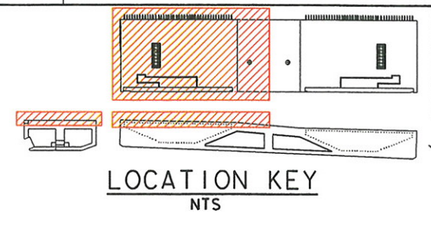
NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.6" sheet.
2. For Section C-C thru E-E, see "W2 Cap Beam Reinforcement Details No.7" sheet.
3. For Section F-F, see "W2 Cap Beam Reinforcement Details No.8" sheet.
4. High bar of vertical bundle is a thru bar. Low bar terminates at continuity tendon 42B.



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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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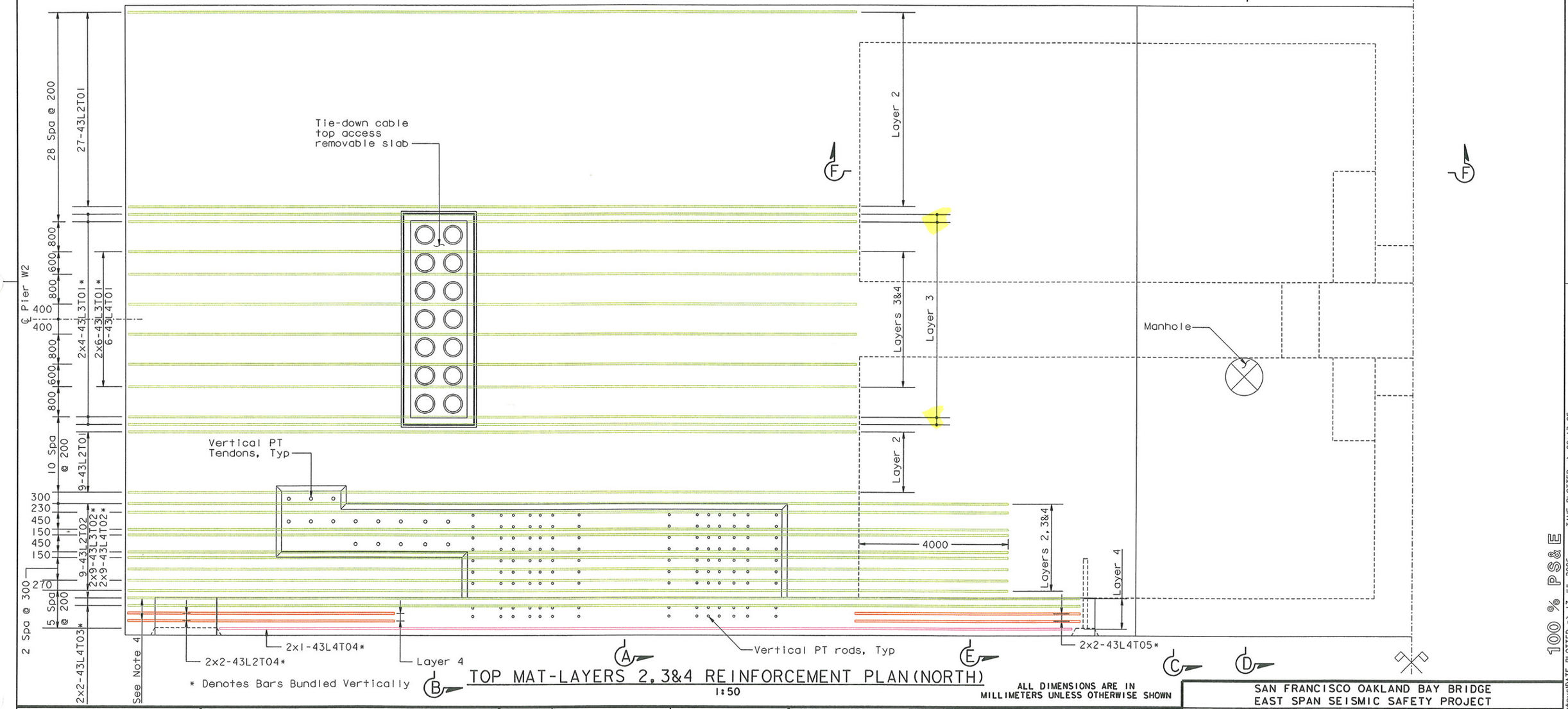

TOP MAT-LAYERS 2,3&4 REINFORCEMENT PLAN (NORTH)
1:50

* Denotes Bars Bundled Vertically

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

W2 CAP BEAM REINFORCEMENT 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

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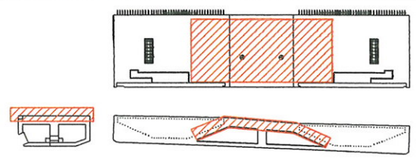
SHEET ___ OF ___

NOTES:
1. For Section C-C thru E-E, see "W2 Cap Beam Reinforcement Details No.7" sheet.
2. For Section F-F, see "W2 Cap Beam Reinforcement Details No.8" sheet.



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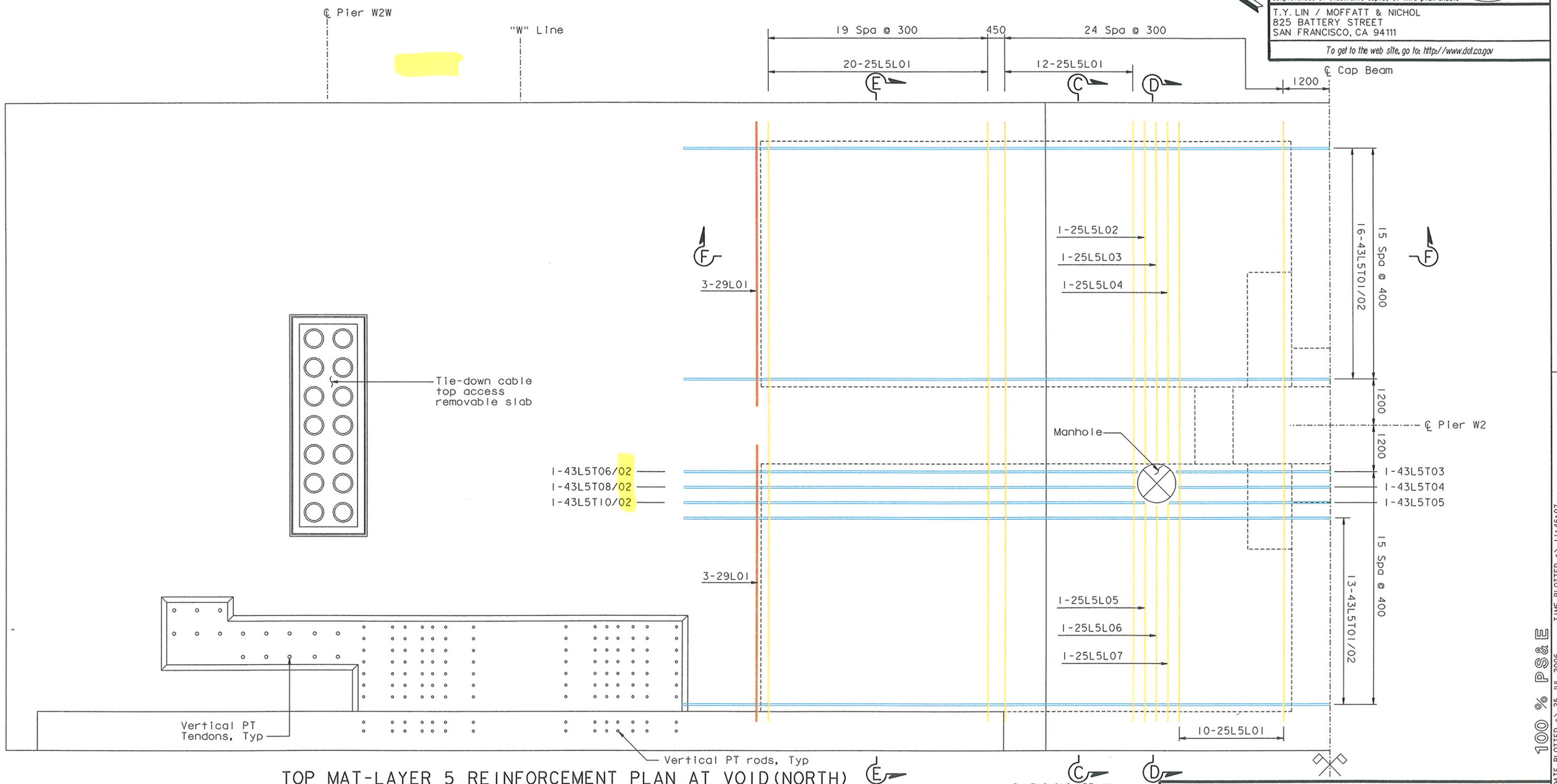

TOP MAT-LAYER 5 REINFORCEMENT PLAN AT VOID (NORTH)
1:50

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 5

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
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	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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NOTES:

1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 19 to No. 25" sheets.
2. Vertical and horizontal stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.
3. Layer dimensions shown center-to-center of reinforcement.

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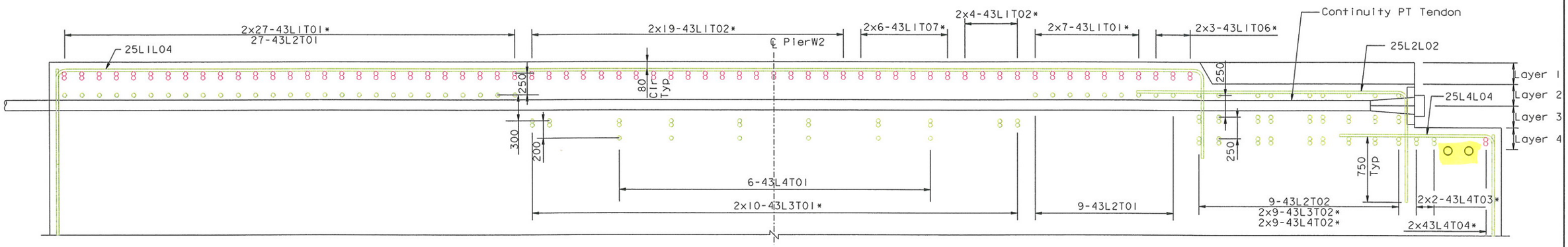
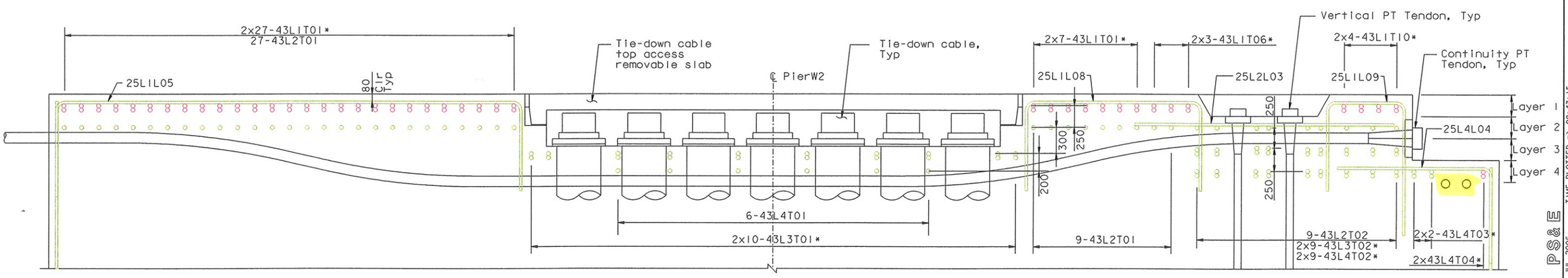


SECTION A-A



SECTION B-B

TOP MAT REINFORCEMENT

(North Side shown, South Side similar)
NTS

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 6

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
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	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

BRIDGE NO. 34-0006L/R
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PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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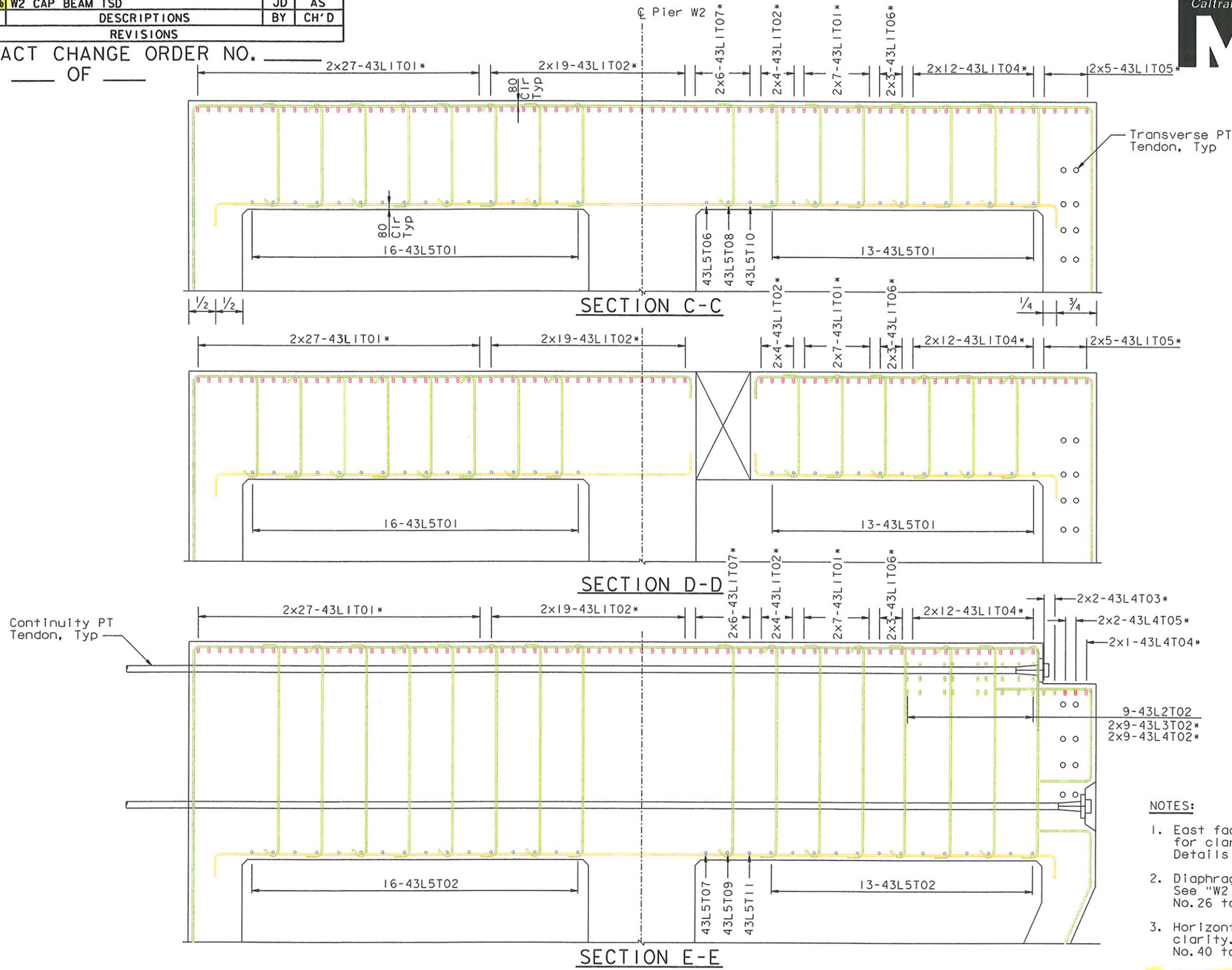

* Denotes Bars Bundled Vertically

TOP MAT REINFORCEMENT

(North Side shown, South Side similar)
NTS

NOTES:

1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 19 to No. 25" sheets.
2. Diaphragm reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 26 to No. 29" sheets.
3. Horizontal stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.
4. For Top Slab Stirrup Plan, see "W2 Cap Beam Reinforcement Details No. 8" sheet.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY J. Sun	CHECKED M. Chen	
DETAILS	BY J. Duxbury	CHECKED M. Chen	
QUANTITIES	BY S. Shi	CHECKED D. Harrison	

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 7

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): 05/31/01 | 04/08/02 | 07/01/02 | 12/19/02

SHEET 063R1 OF

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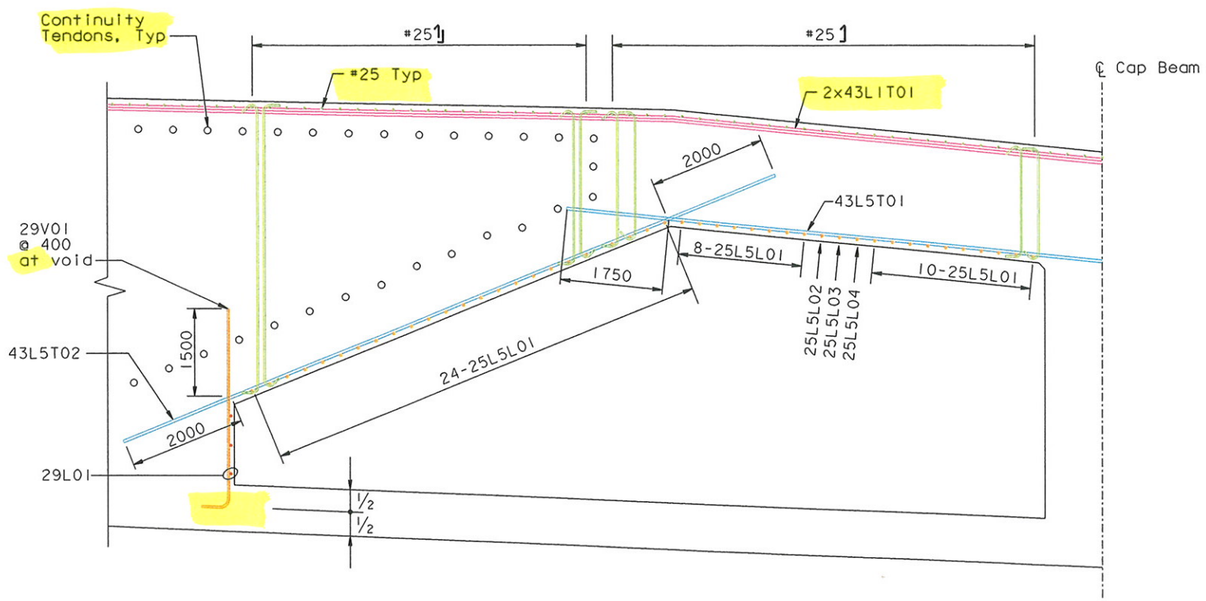
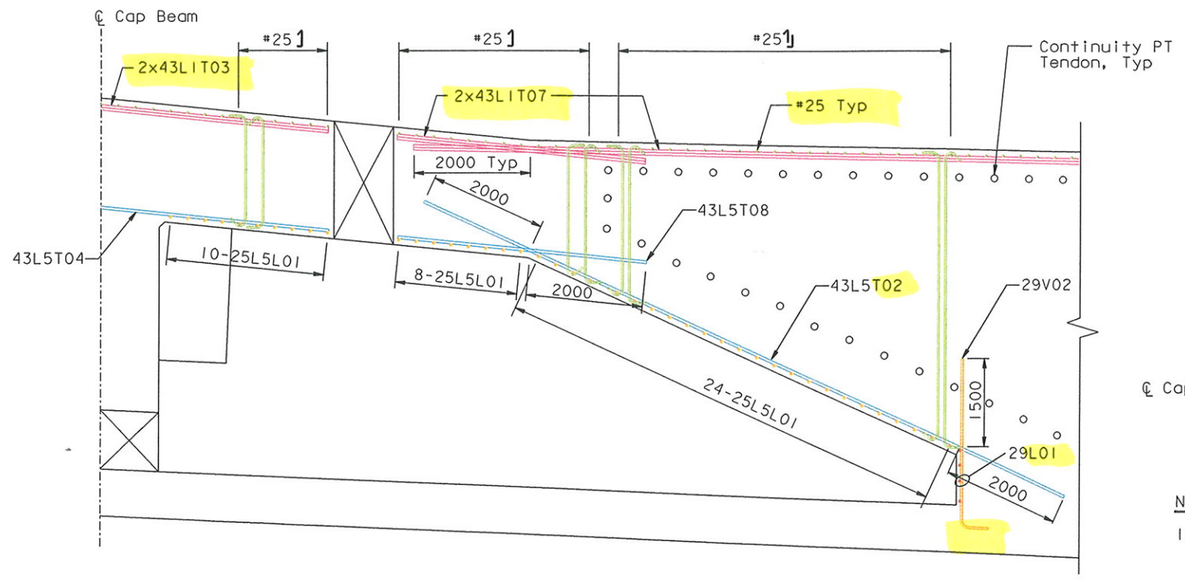
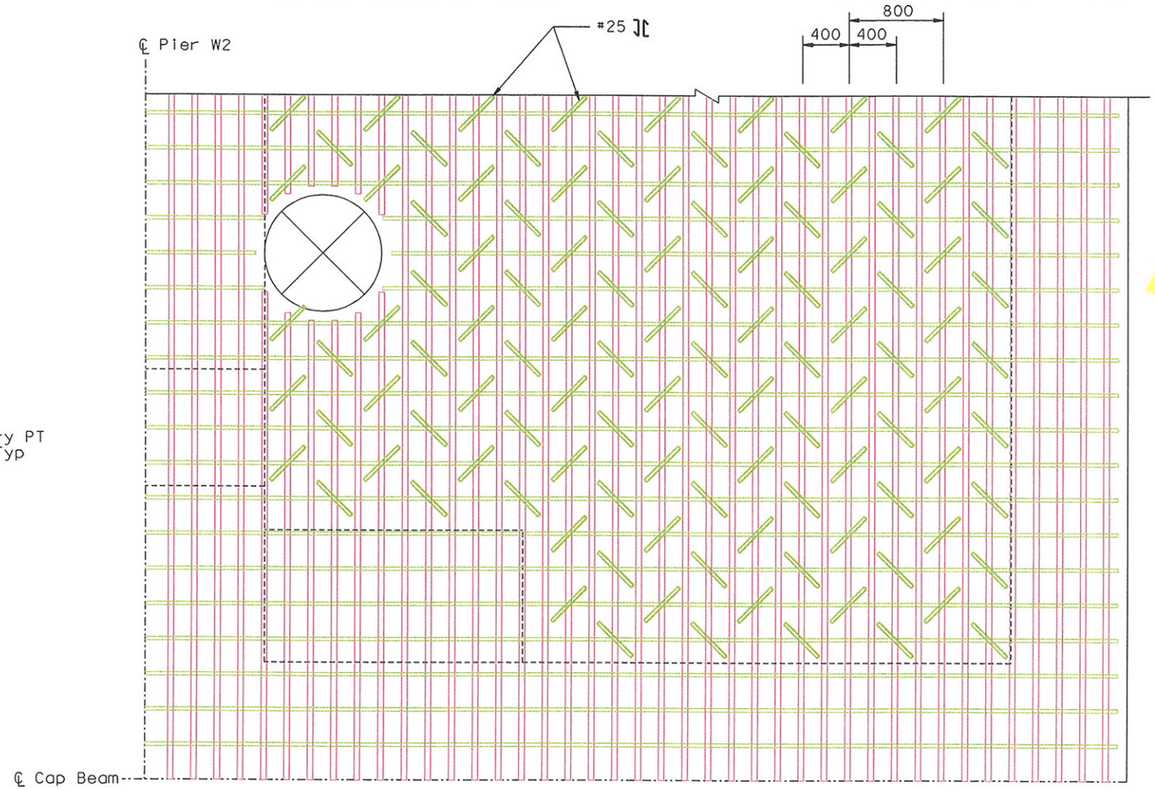


SECTION F-F



SECTION G-G

TOP MAT REINFORCEMENT
1:50



TOP SLAB STIRRUP PLAN (PARTIAL)
1:25

NOTES:

1. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 9 to No. 17" sheets.
2. Diaphragm reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 26 to No. 29" sheets.
3. Jacking Saddle reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 30 to No. 33" sheets.
4. Horizontal and vertical stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.

FOR REVISIONS ONLY

MARK	DATE	DESCRIPTIONS	BY	CH'D
		REVISIONS		
1	07/21/06	W2 CAP BEAM ISD	JD	AS

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	481RI	1204

REGISTERED ENGINEER - CIVIL
12-6-04
PLANS APPROVAL DATE

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 8

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

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

SHEET 064RI 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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MARK	DATE	DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS

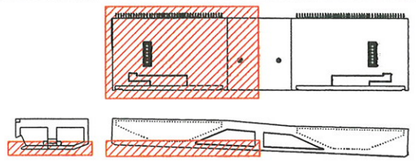
REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

FOR REVISIONS ONLY

REGISTERED PROFESSIONAL ENGINEER James P. Duxbury No. C 64677 Exp. 06/30/07 CIVIL STATE OF CALIFORNIA

NOTES:
1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No. 16" sheet.
2. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No. 17" sheet.
3. For Section E-E, see "W2 Cap Beam Reinforcement Details No. 18" sheet.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	482R1	1204

REGISTERED ENGINEER - CIVIL
12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER John Sun No. C 54648 Exp. 12/31/05 CIVIL STATE OF CALIFORNIA

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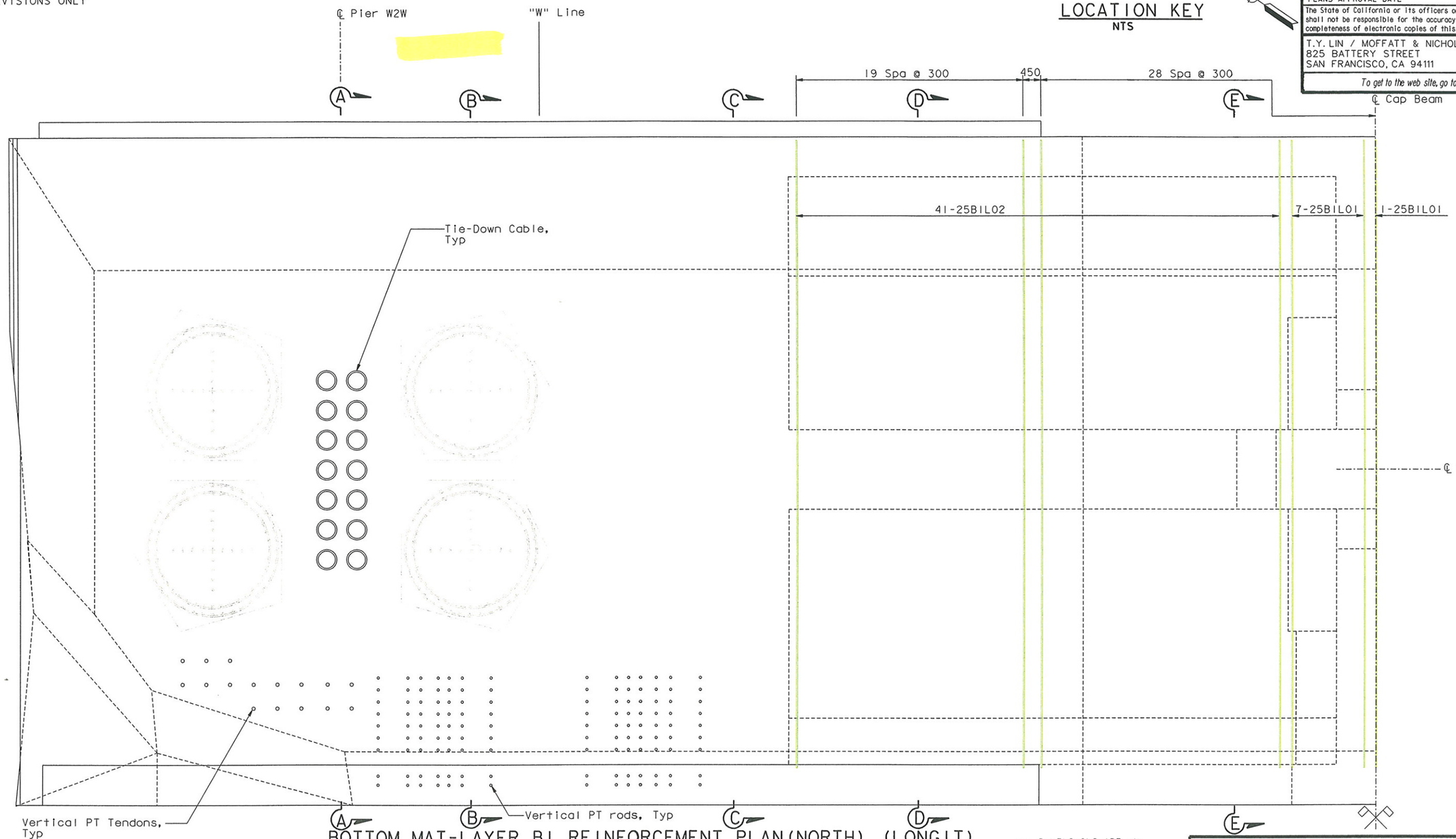

BOTTOM MAT-LAYER B1 REINFORCEMENT PLAN (NORTH) (LONGIT)
1:50

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100 % PS&E

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R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Reza Valiza / Vong Toan / Y. Liu
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 9

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) 05/31/01 04/08/02 07/01/02 12/19/02

SHEET 065R1 OF

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REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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MARK	DATE	DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS

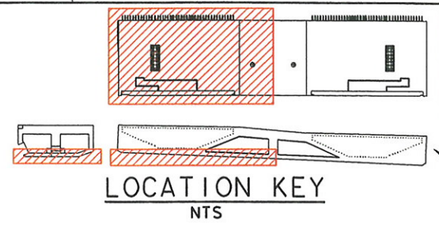
REVISIONS

CONTRACT CHANGE ORDER NO. _____

SHEET ___ OF ___

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No. 16" sheet.
2. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No. 17" sheet.
3. For Section E-E, see "W2 Cap Beam Reinforcement Details No. 18" sheet.



LOCATION KEY

NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	483R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04

PLANS APPROVAL DATE

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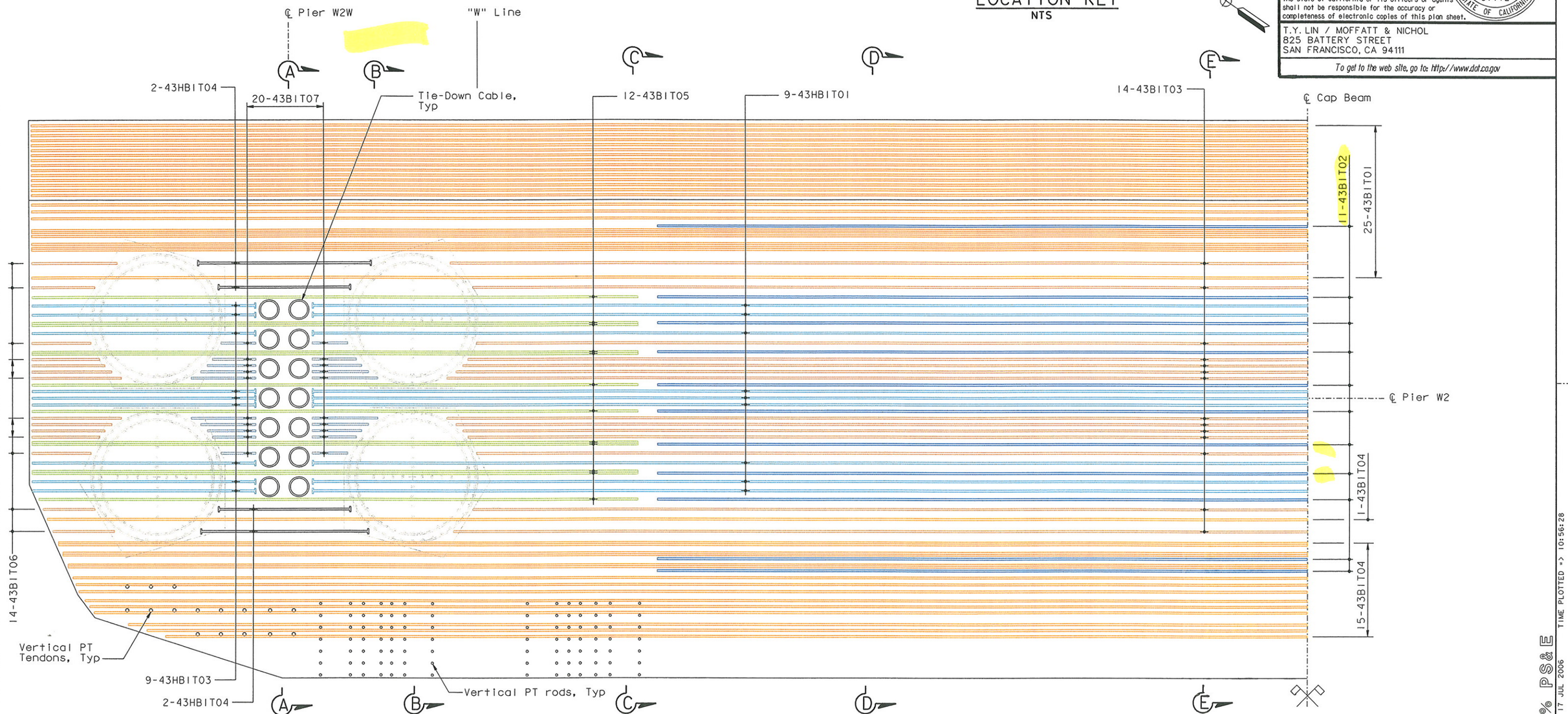

BOTTOM MAT-LAYER B1 REINFORCEMENT PLAN (NORTH) (TRANSVERSE)

1:50

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 10

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

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

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): 05/31/01 | 04/09/02 | 07/01/02 | 12/19/02

SHEET 066R1 OF

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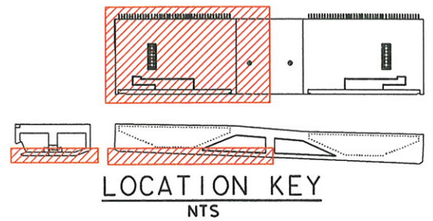
		REVISIONS		

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.16" sheet.
2. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No.17" sheet.
3. For Section E-E, see "W2 Cap Beam Reinforcement Details No.18" sheet.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	484R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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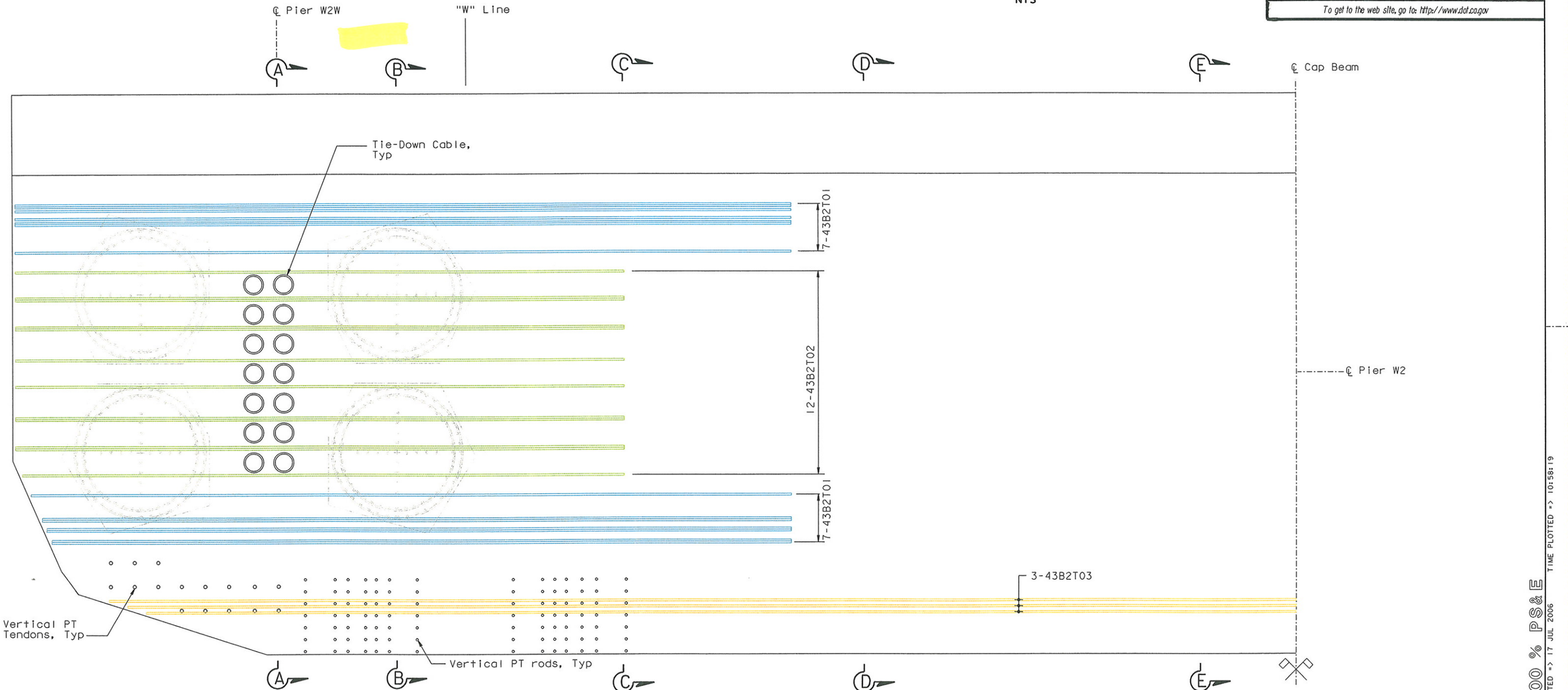

BOTTOM MAT-LAYER B2 REINFORCEMENT PLAN (NORTH) (TRANSVERSE)

1:50

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DATE PLOTTED => 17 JUL 2006
USERNAME => vignarovs

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DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
05/31/01	04/08/02	07/08/02	12/19/02						067R1	

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REGISTERED PROFESSIONAL ENGINEER
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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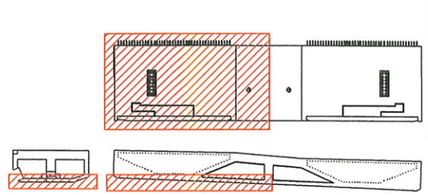
		REVISIONS		
1	07/21/06	W2 CAP BEAM ISD	JD	AS

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.16" sheet.
2. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No.17" sheet.
3. For Section E-E, see "W2 Cap Beam Reinforcement Details No.18" sheet.



LOCATION KEY
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Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	485R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
John Sun
No. C 54648
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA

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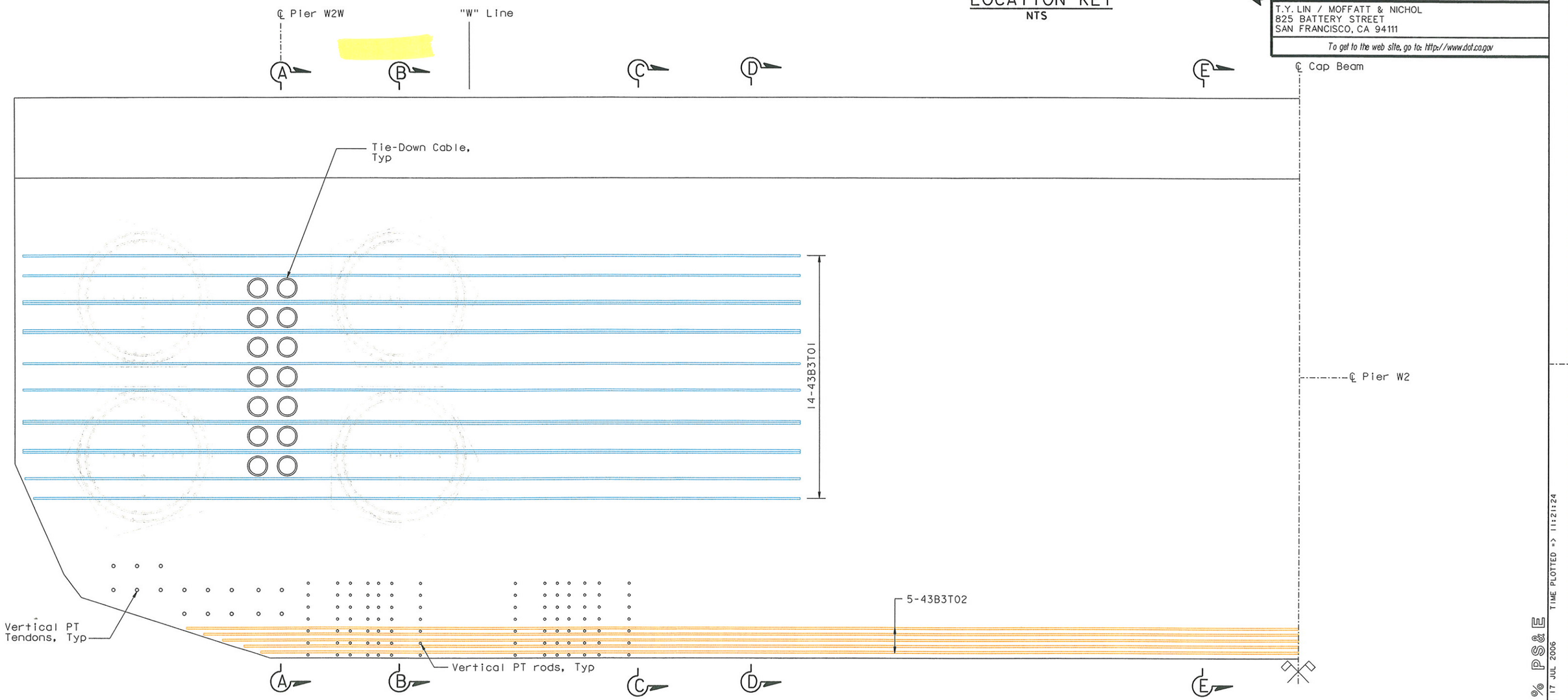

BOTTOM MAT-LAYER B3 REINFORCEMENT PLAN(NORTH) (TRANSVERSE)
1:50

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DESIGN	BY J. Sun	CHECKED M. Chen	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY J. Duxbury	CHECKED M. Chen	
QUANTITIES	BY S. Shi	CHECKED D. Harrison	

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

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)
W2 CAP BEAM REINFORCEMENT DETAILS NO. 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)										SHEET	OF
05/24/01	04/08/02	07/01/02	12/19/02							068R1	

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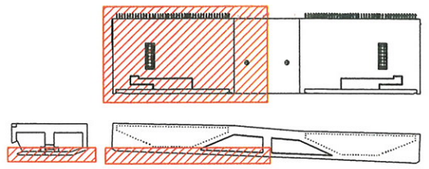
MARK	DATE	DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS
		REVISIONS		

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

FOR REVISIONS ONLY

NOTES:
1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.16" sheet.
2. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No.17" sheet.
3. For Section E-E, see "W2 Cap Beam Reinforcement Details No.18" sheet.



LOCATION KEY
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Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	486R1	1204

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12-6-04
PLANS APPROVAL DATE

John Sun, No. C 54648, Exp. 12/31/05, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

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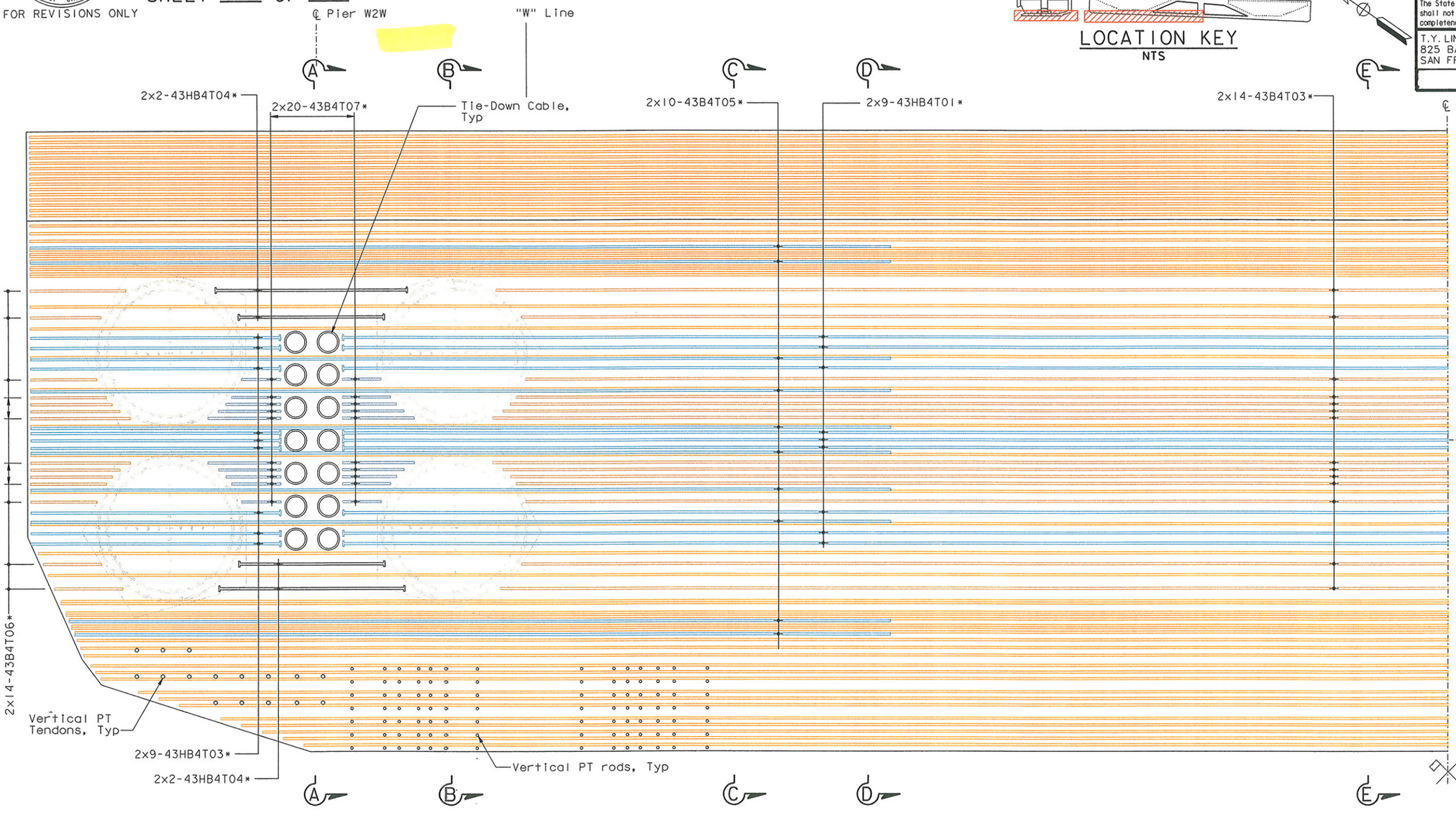

BOTTOM MAT-LAYER B4 REINFORCEMENT PLAN (NORTH) (TRANSVERSE)
1:50

* Denotes Bars Bundled Vertically

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100% PS&E

TIME PLOTTED => 11:24:23
DATE PLOTTED => 17 JUL 2006
USERNAME => vignatovs

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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

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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): 05/31/01 | 04/30/02 | 07/01/02 | 12/19/02

SHEET 069R1 OF

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 13

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. ____

SHEET ___ OF ___

FOR REVISIONS ONLY

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.16" sheet.
2. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No.17" sheet.
3. For Section E-E, see "W2 Cap Beam Reinforcement Details No.18" sheet.

LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	487R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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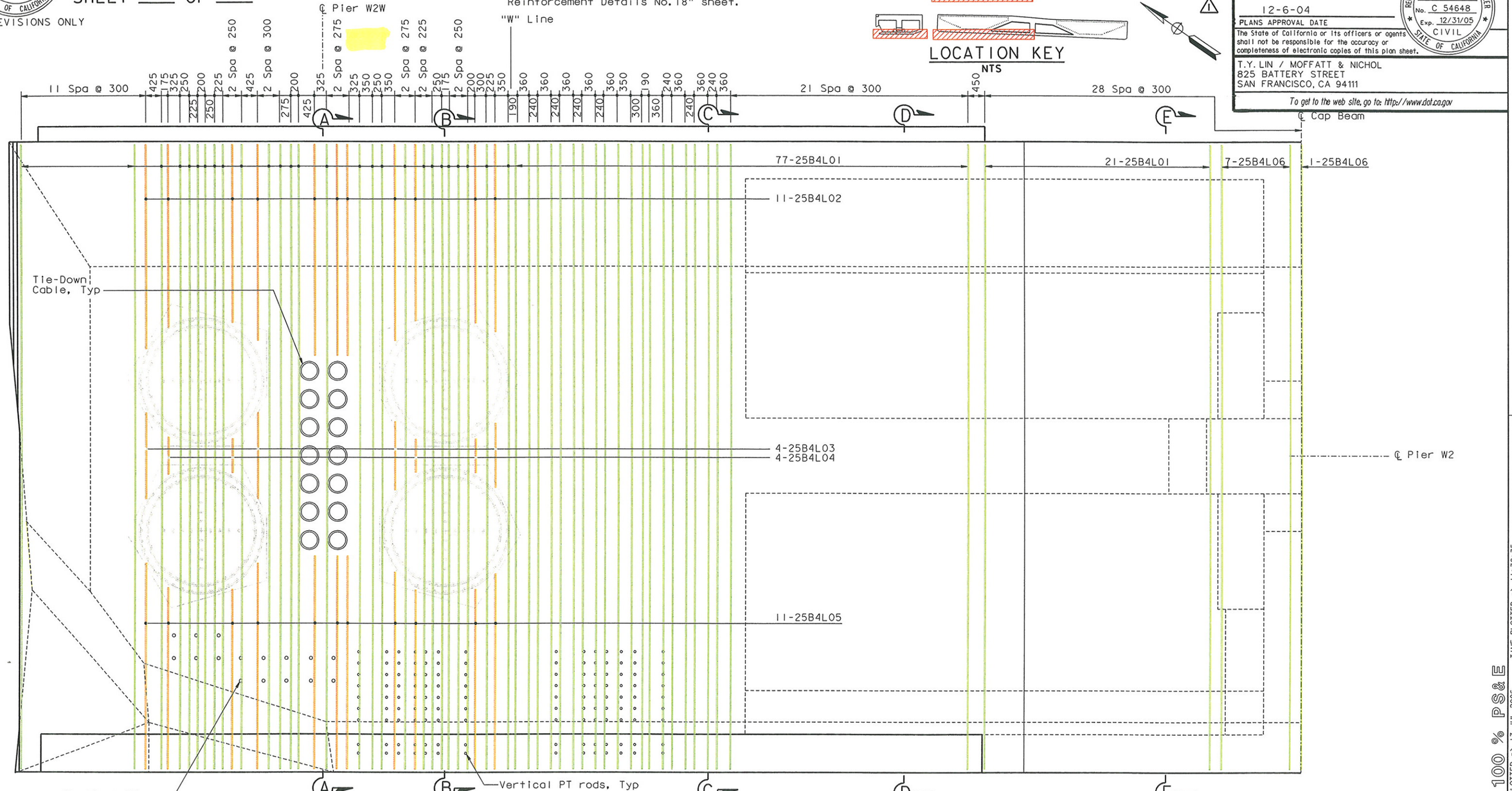

BOTTOM MAT-LAYER B4 REINFORCEMENT PLAN (NORTH) (LONGIT)

(South Side Similar)

1:50

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

100 % PS&E

TIME PLOTTED => 11:38:35

DATE PLOTTED => 17 JUL 2006

USERNAME => vignotvs

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Reza Valizadeh /s/ Vong Toan / Y. Liu
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 14

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): 05/31/01 | 09/06/02 | 07/01/02 | 12/19/02

SHEET 070R1 OF

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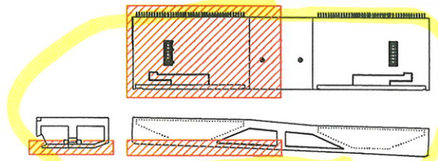
REGISTERED PROFESSIONAL ENGINEER
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS
		REVISIONS		

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___
FOR REVISIONS ONLY



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	488RI	1204

REGISTERED ENGINEER - CIVIL
12-6-04
PLANS APPROVAL DATE
REGISTERED PROFESSIONAL ENGINEER
John Sun
No. C 54648
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA

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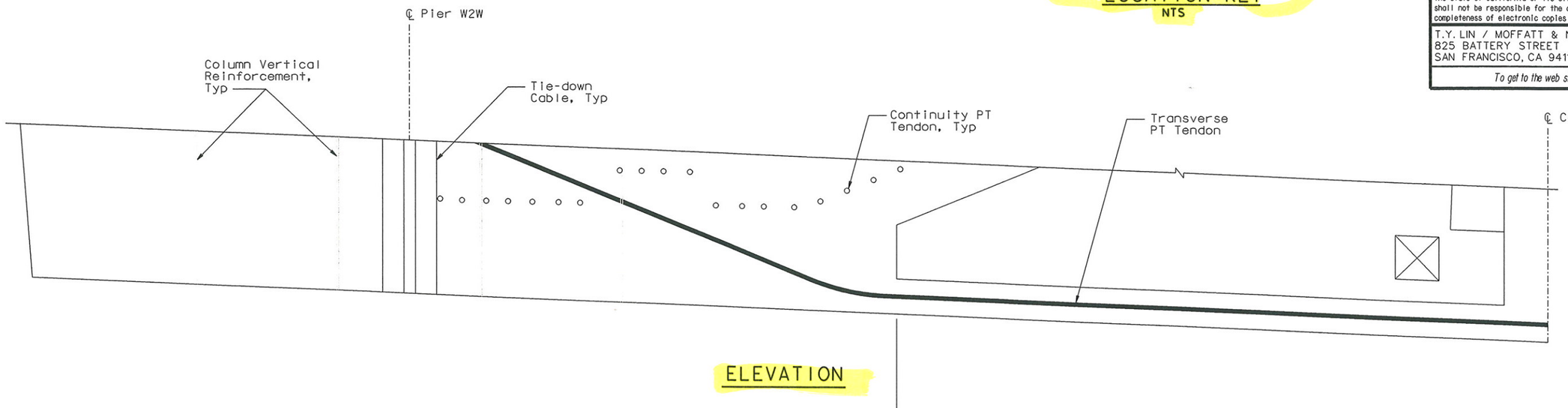

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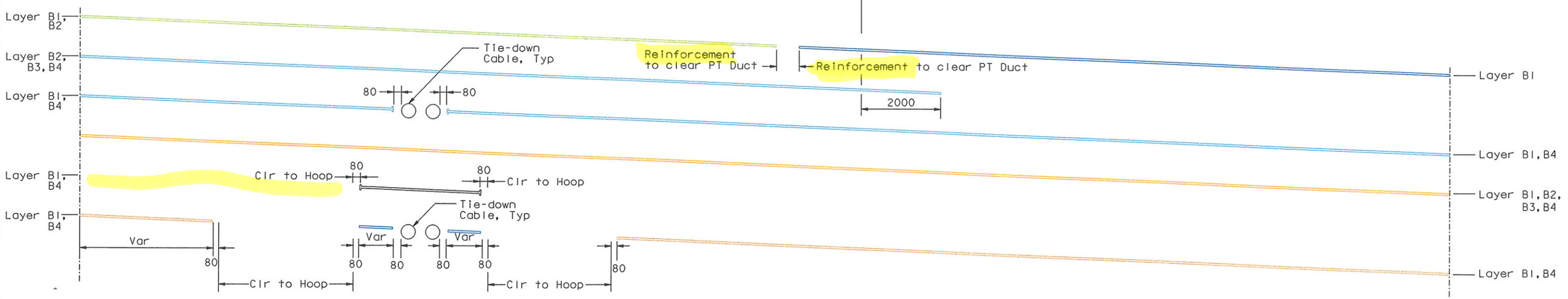

PLAN VIEW

BOTTOM MAT REINFORCEMENT EXTENT PLAN

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 15

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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

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)									SHEET	OF
05/31/01	04/30/02	07/01/02	12/19/02						071RI	

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FOR REVISIONS ONLY

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

NOTES:

1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.19 to No.25" sheets.
2. Vertical and horizontal stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.40 to No.43" sheets.
3. For spacing, see "W2 Cap Beam Reinforcement Details No.17" sheet.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	489R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

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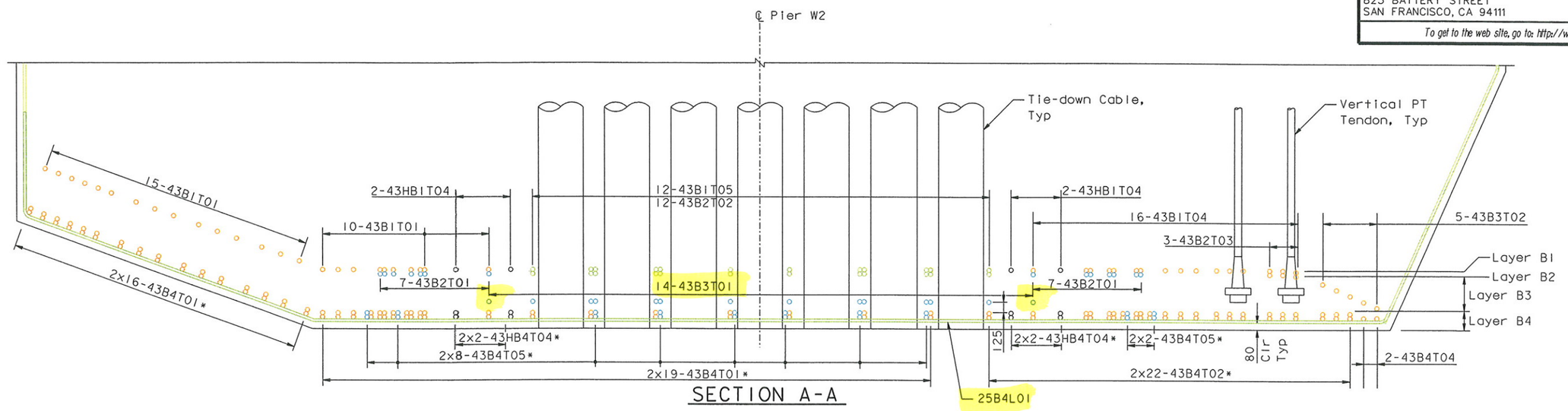
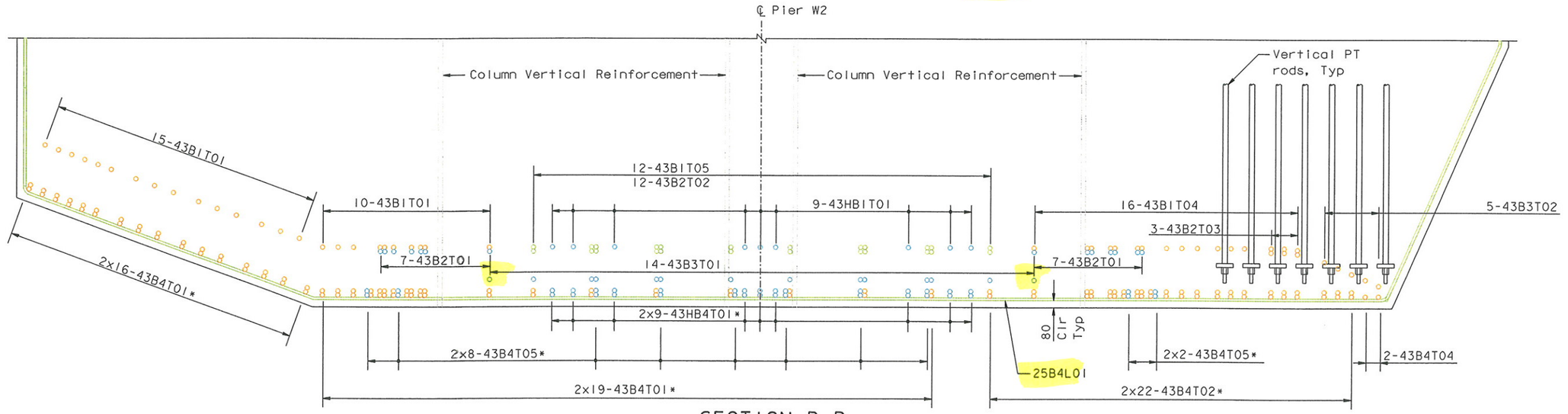


SECTION A-A



SECTION B-B

* Denotes Bars Bundled Vertically

BOTTOM MAT REINFORCEMENT
(North Side shown, South Side similar)
1:25

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 16

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 | 04/08/02 | 07/01/02 | 12/19/02

SHEET 072R1 OF

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MARK	DATE	DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

NOTES:

1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.19 to No.25" sheets.
2. Diaphragm reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.26 to No.29" sheets.
3. Horizontal stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.40 to No.43" sheets.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	490R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

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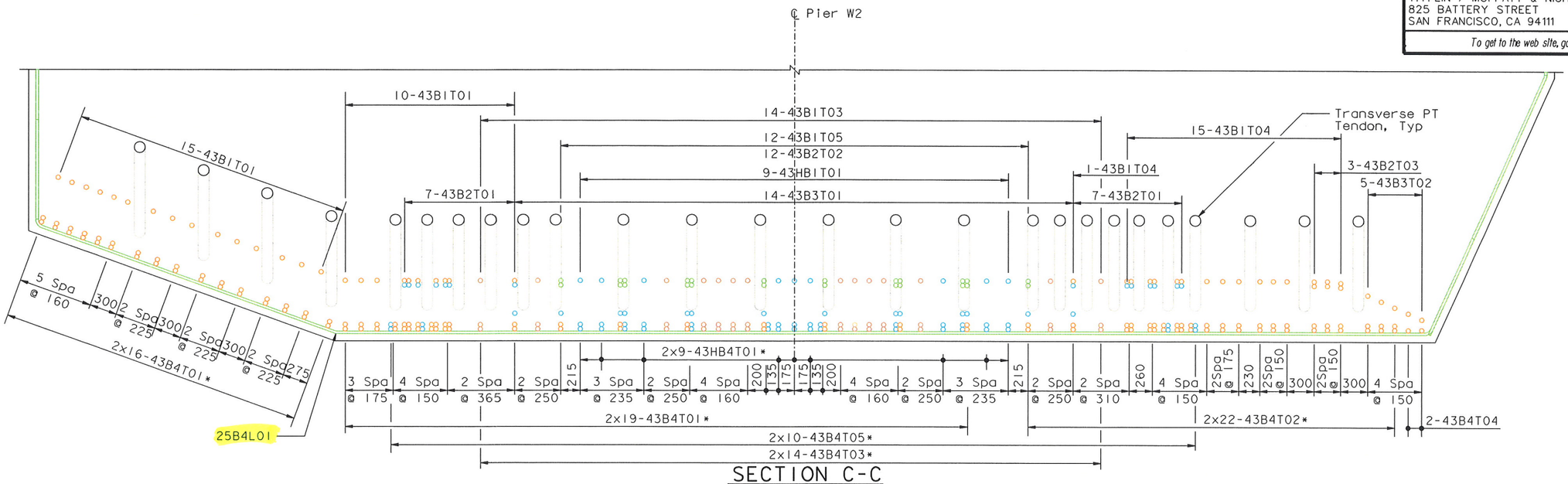
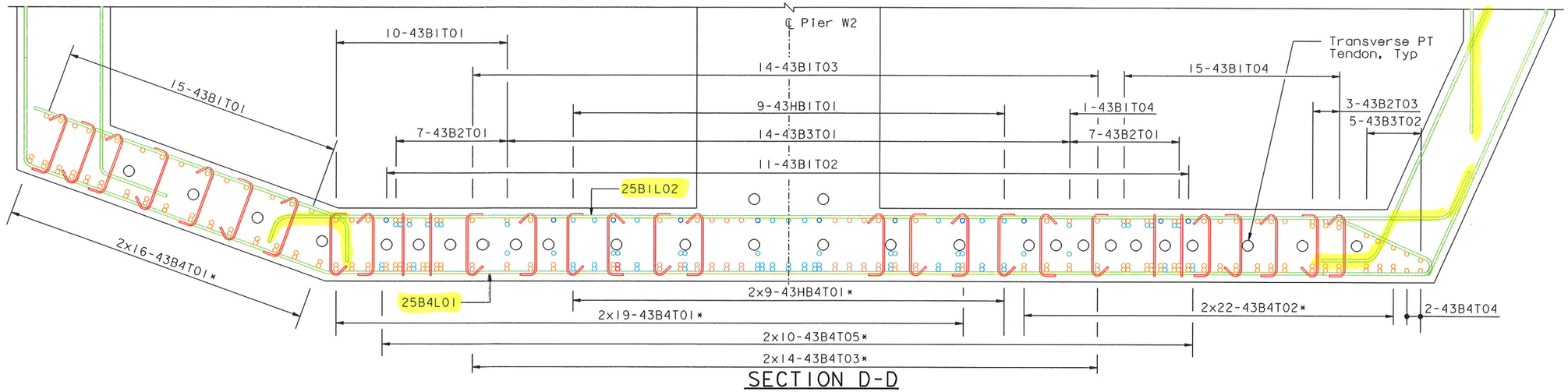


SECTION C-C



SECTION D-D

BOTTOM MAT REINFORCEMENT
(North Side shown, South Side similar)
1:25

* Denotes Bars Bundled Vertically

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 17

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 0120F8

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
05/31/01	04/08/02	07/01/02	12/19/02						073R1	

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REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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MARK	DATE	DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS
		REVISIONS		

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

NOTES:

1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.19 to No.25" sheets.
2. Diaphragm reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.26 to No.29" sheets.
3. For spacing see "W2 Cap Beam Reinforcement Details No.17" sheet.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	491R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

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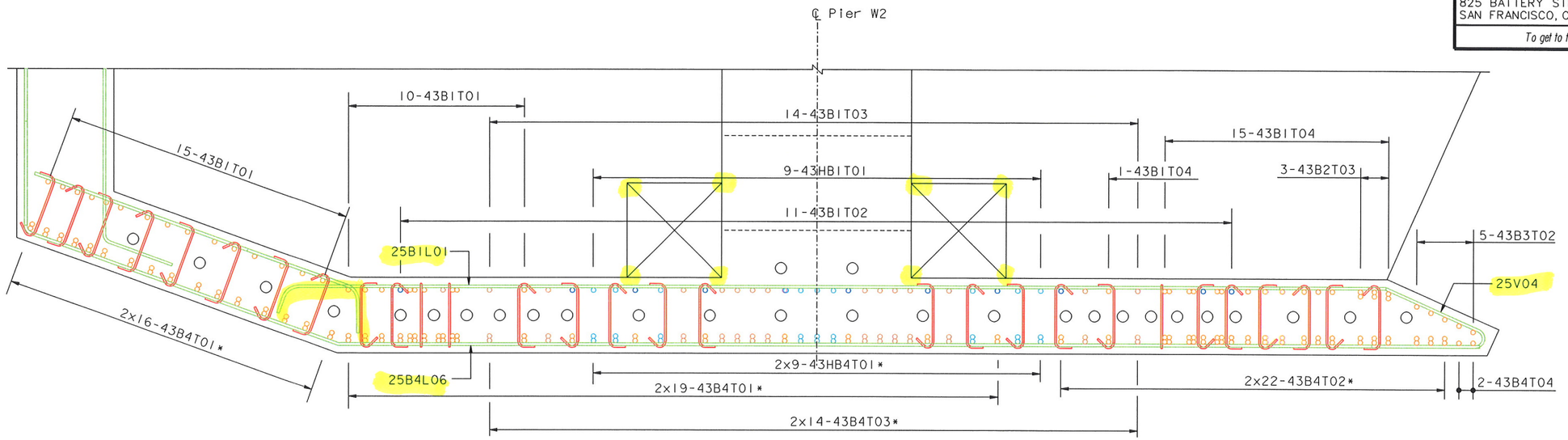
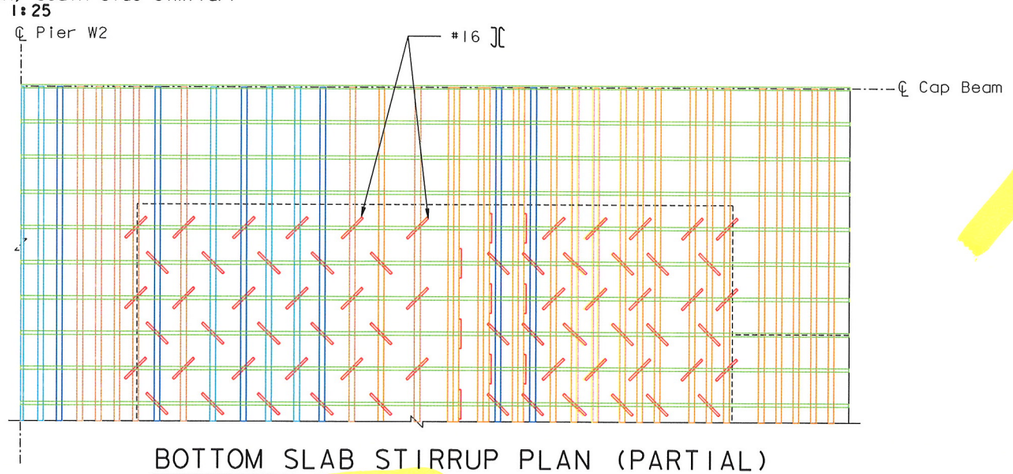


SECTION E-E
BOTTOM MAT REINFORCEMENT
(North Side shown, South Side similar)

1:25



BOTTOM SLAB STIRRUP PLAN (PARTIAL)

NTS

* Denotes Bars Bundled Vertically

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Vallzadeh/V.Toan/Y.L./W.L./F.C.	DESIGN	BY J. Sun	CHECKED M. Chen
DESIGN OVERSIGHT	DETAILS	BY J. Duxbury	CHECKED M. Chen
SIGN OFF DATE 07/21/06	QUANTITIES	BY S. Shi	CHECKED D. Harrison

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

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

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 18

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
05/31/01	01/08/02	01/31/02	12/19/02							074R1	

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REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

FOR REVISIONS ONLY

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.22" sheet.
2. All reinforcement placed parallel to soffit.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	492RI	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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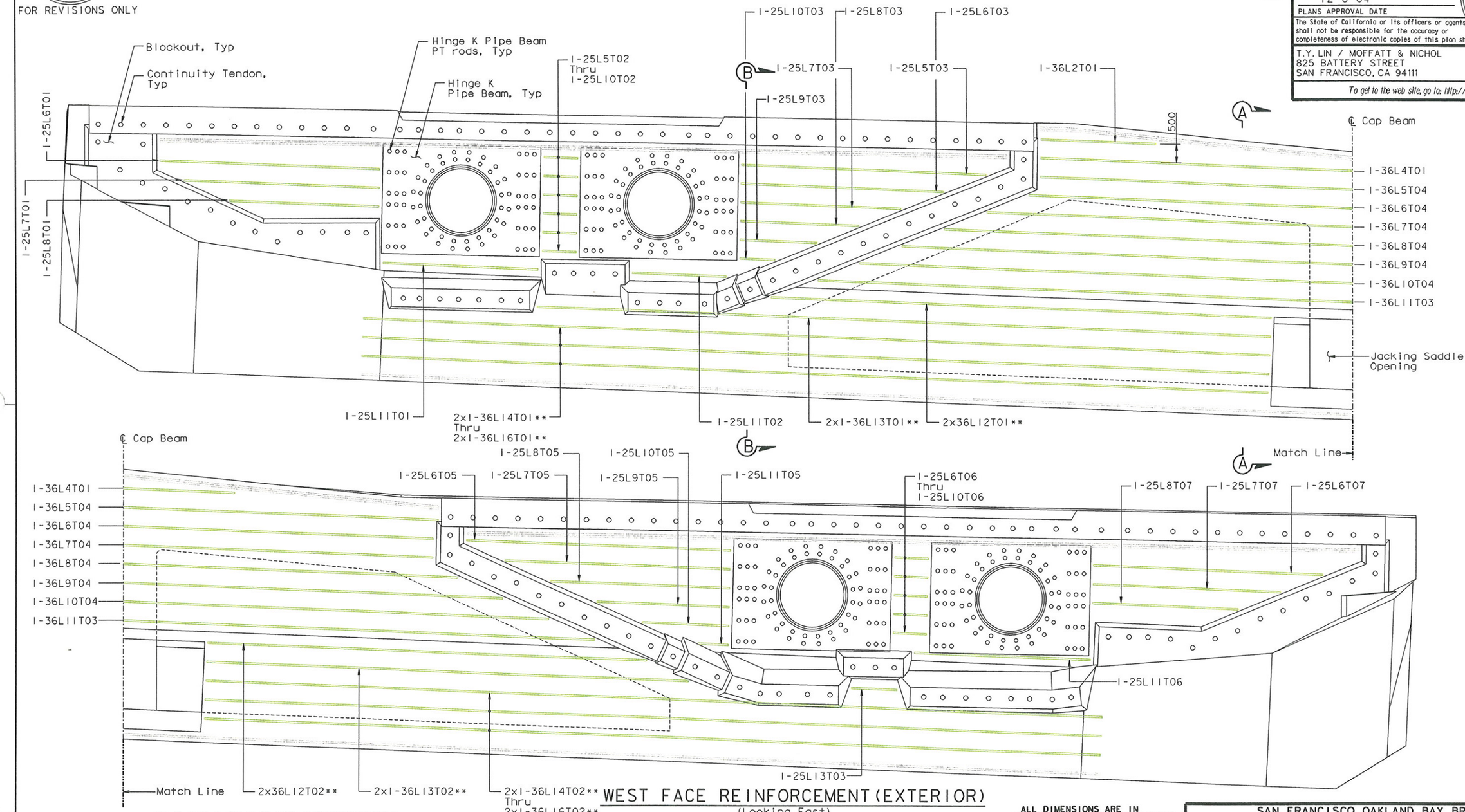

WEST FACE REINFORCEMENT (EXTERIOR)
(Looking East)
1:50

** Denotes Bars Bundled Horizontally

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

100 % PS&E

USERNAME => vignatovs DATE PLOTTED => 17 JUL 2006 TIME PLOTTED => 13:14:46

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 19

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

Rev. Date: 5-18-98

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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

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)										SHEET	OF
05/31/01	04/08/02	07/01/02	12/19/02							075RI	

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MARK	DATE	DESCRIPTIONS	BY	CH'D
		REVISIONS		
1	07/21/06	W2 CAP BEAM ISD	JD	AS

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

FOR REVISIONS ONLY

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No. 22" sheet.
2. Reinforcement labeled "T23" and "T25" placed parallel to deck; other placed parallel to soffit, as shown.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	493R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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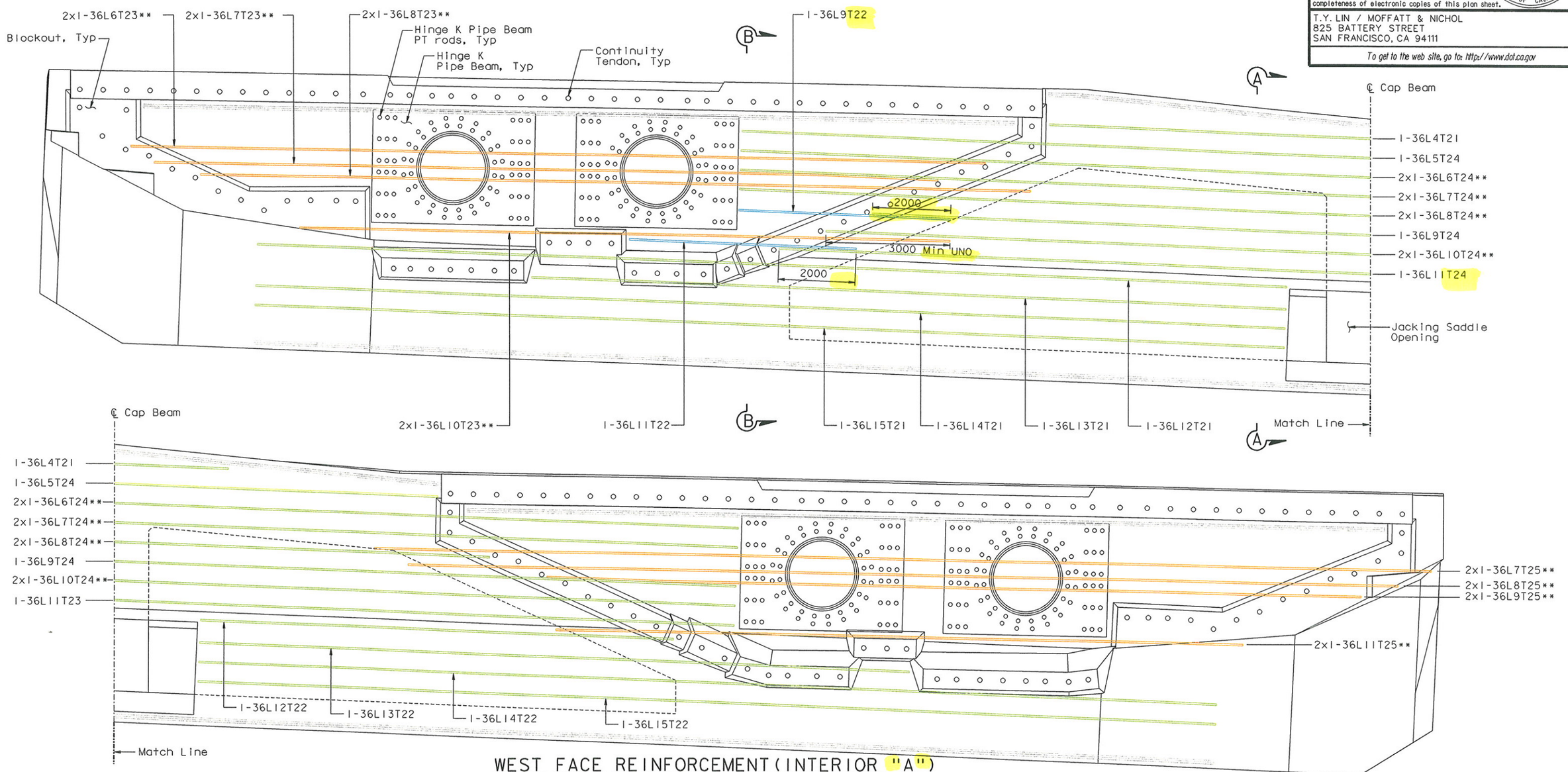

WEST FACE REINFORCEMENT (INTERIOR "A")

(Looking East)
1:50

** Denotes Bars Bundled Horizontally

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Vallizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 20

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
05/31/01	04/08/02	07/09/02	12/19/02							076R1	

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MARK	DATE	DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

FOR REVISIONS ONLY

NOTES:

1. For Section B-B, see "W2 Cap Beam Reinforcement Details No.22" sheet.
2. Reinforcement labeled "T33" and "T35" placed parallel to deck.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	494RI	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

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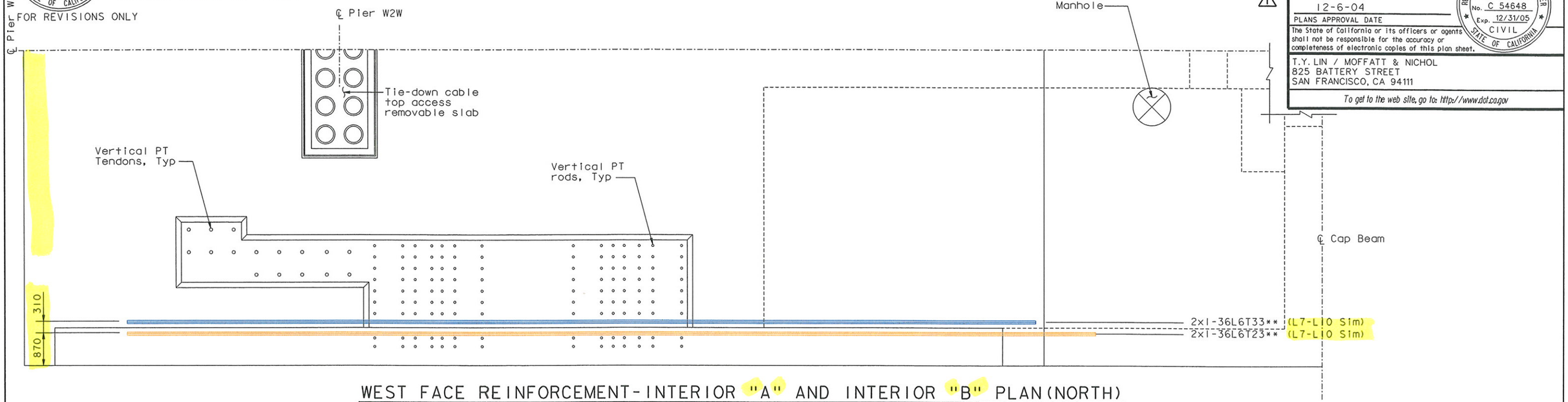
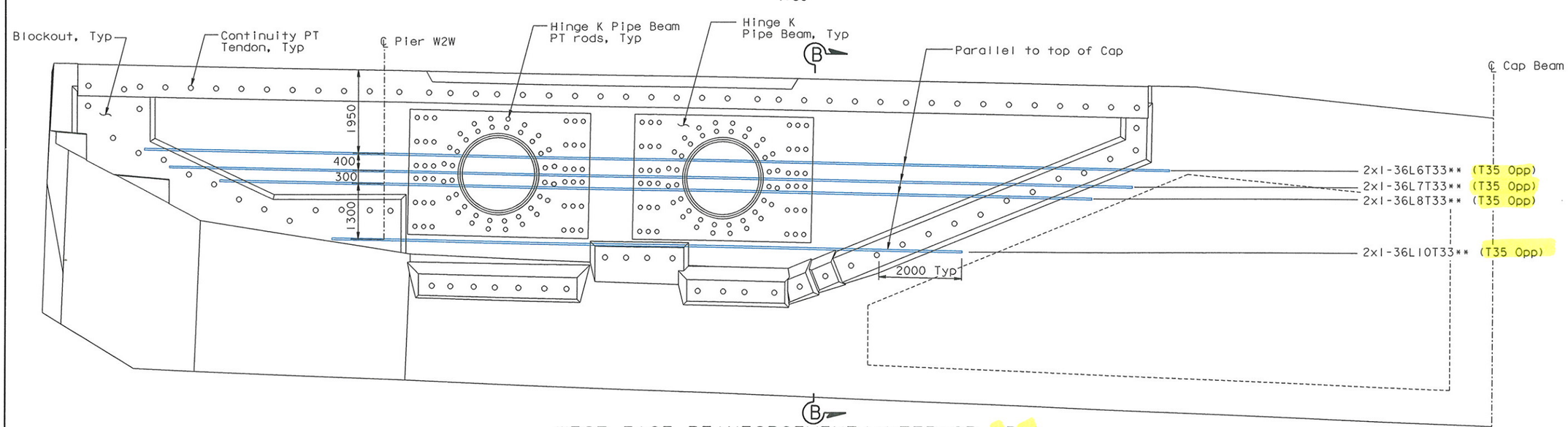


WEST FACE REINFORCEMENT - INTERIOR "A" AND INTERIOR "B" PLAN (NORTH)

(Looking East) (South Side Similar)

1:50



** Denotes Bars Bundled Horizontally

WEST FACE REINFORCEMENT (INTERIOR "B")

(Looking East) (South Side Similar)

1:50

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 21

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 | 04/08/02 | 07/09/02 | 12/19/02

SHEET 077RI OF

FILE => p:\bb\04-01200\sas ready august 2005\cco*23\aecap20r-c.dgn

100 % PS&E

USERNAME => vignotovs DATE PLOTTED => 21 JUL 2006 TIME PLOTTED => 07:45:25

PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

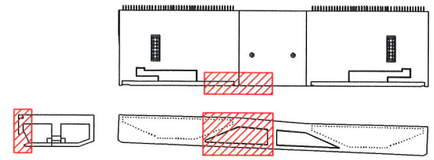
FOR REVISIONS ONLY

MARK	DATE	REVISIONS / DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

NOTES:

1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.2 to No.8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.9 to No.18" sheets.
3. Horizontal and vertical stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.40 to No.43" sheets.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	495R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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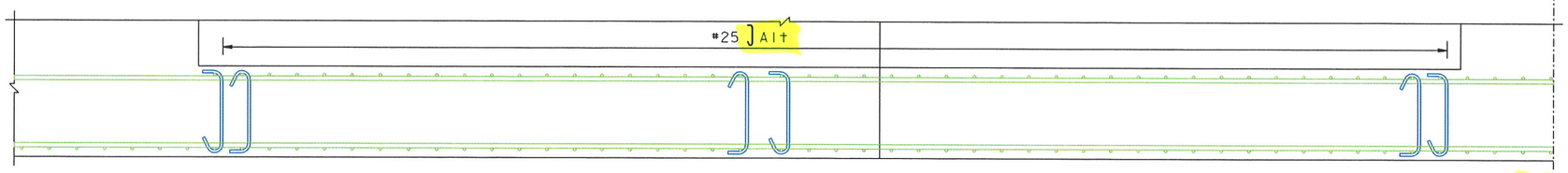
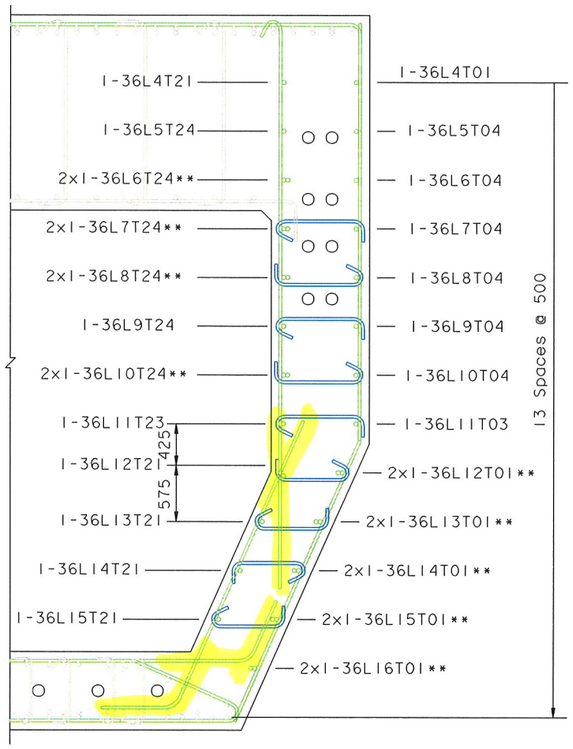
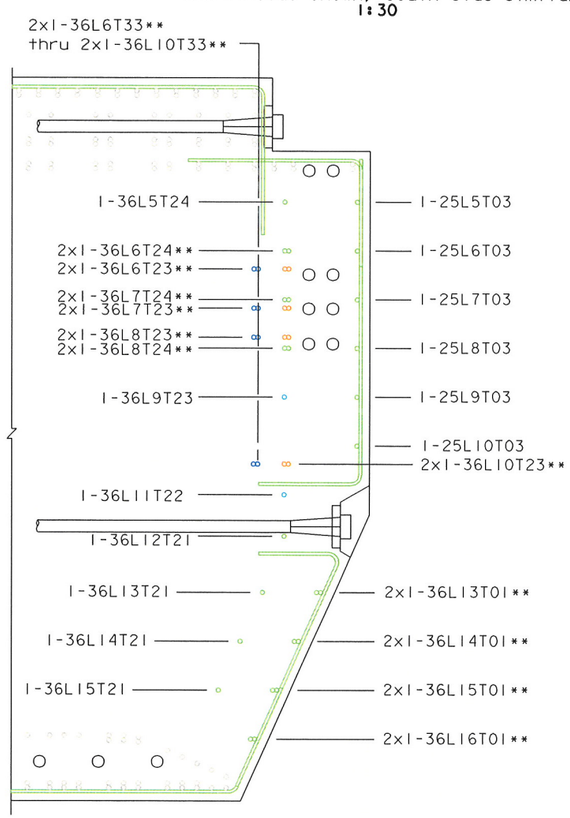


WEST FACE REINFORCEMENT-EXTERIOR AND INTERIOR A PLAN (NORTH)

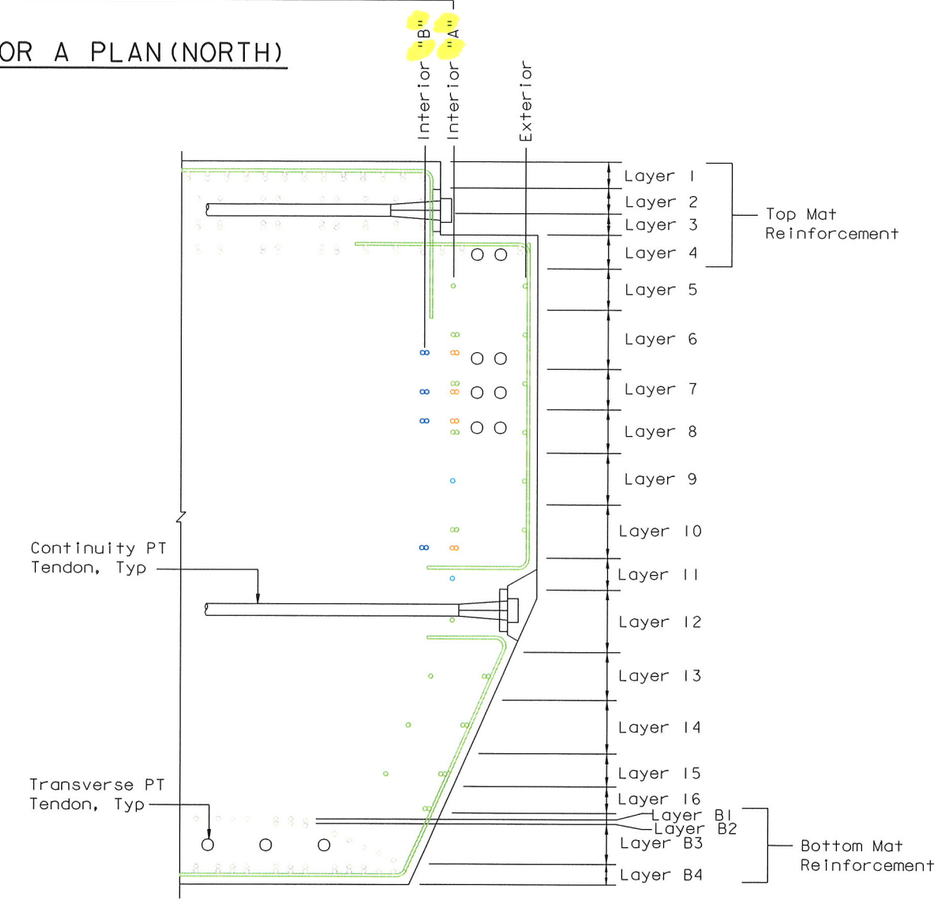
(North Side Shown, South Side Similar)
1:30



SECTION A-A



SECTION B-B



LAYER ID

WEST FACE REINFORCEMENT

(North Side Shown, South Side Similar)
1:30

** Denotes Bars Bundled Horizontally

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

100% PS&E

USERNAME => vignatovs DATE PLOTTED => 31 JUL 2006 TIME PLOTTED => 15:40:18

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

Rev. Date: 5-18-98

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO.22

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 | 04/08/02 | 07/01/02 | 12/19/02

SHEET 078R1 OF

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MARK	DATE	DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

FOR REVISIONS ONLY

NOTES:

1. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No.25" sheet.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	496RI	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

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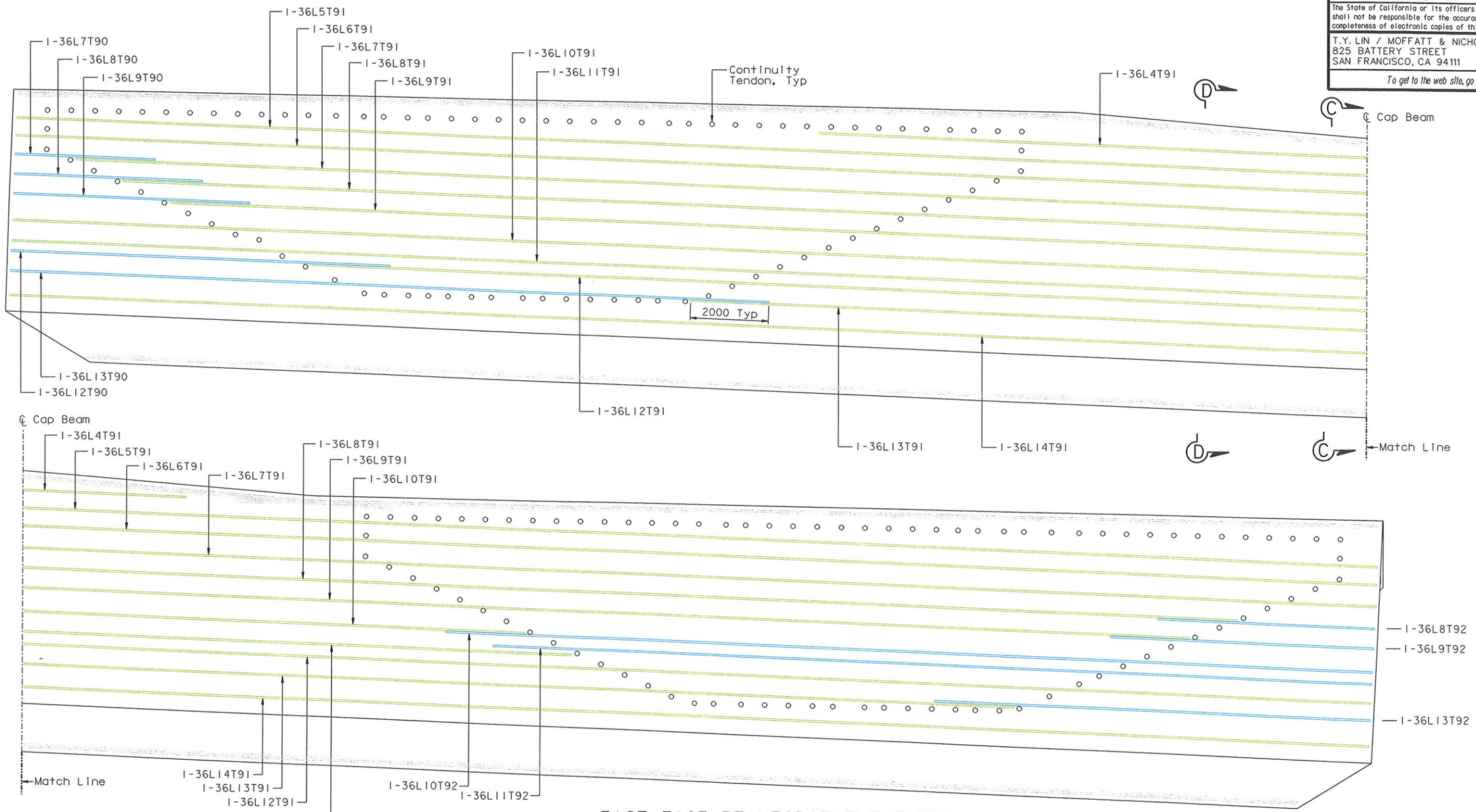

EAST FACE REINFORCEMENT (EXTERIOR)
(Looking East)
1:50

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 23

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): 05/31/01 | 01/08/02 | 07/01/02 | 12/19/02

SHEET 079RI OF

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USERNAME => v\gnatovs DATE PLOTTED => 21 JUL 2006 TIME PLOTTED => 07:51:59

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	07/21/06	W2 CAP BEAM ISD	JD	AS
		REVISIONS		

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

FOR REVISIONS ONLY

NOTES:

1. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No.25" sheet.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497RI	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

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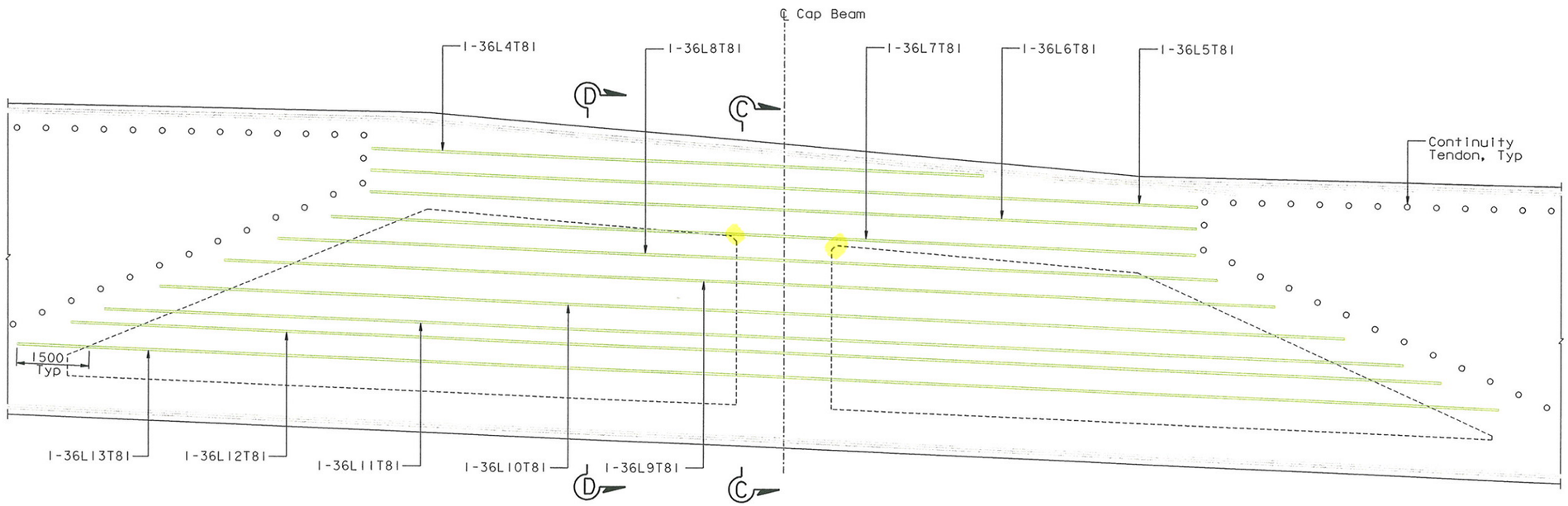

EAST FACE REINFORCEMENT (INTERIOR)
(Looking East)
1:50

100 % PS&E

USERNAME => vignatovs DATE PLOTTED => 21 JUL 2006 TIME PLOTTED => 08:00:06

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Vallizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 05/31/01 | 04/08/02 | 07/01/02 | 12/19/02

SHEET 080RI 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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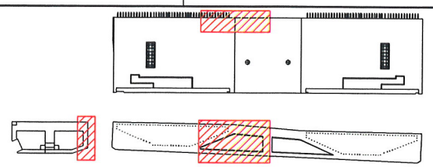
SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 24

NOTES:

1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 2 to No. 8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 9 to No. 18" sheets.
3. Horizontal and vertical stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497SI	1204

REGISTERED ENGINEER - CIVIL

07-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94111

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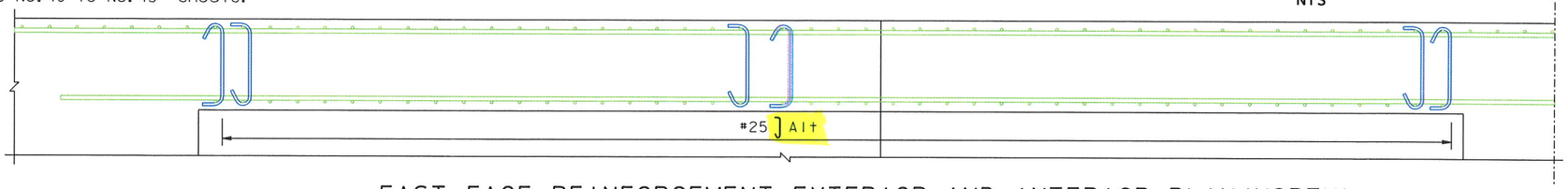
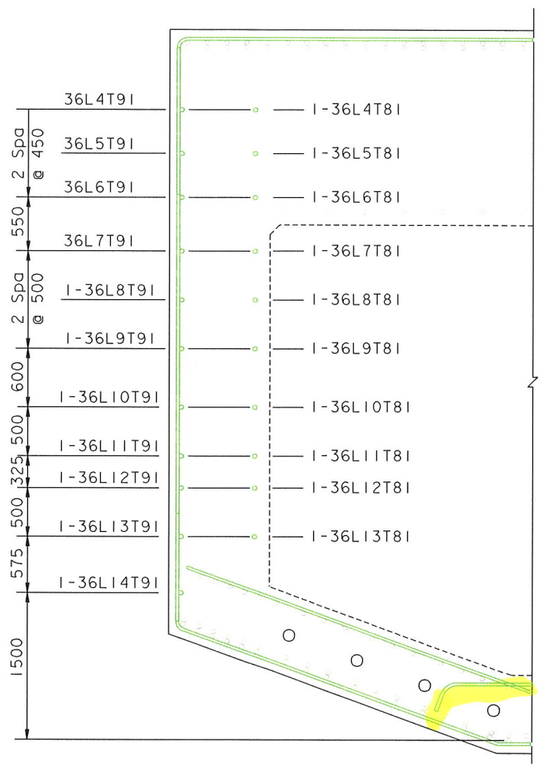
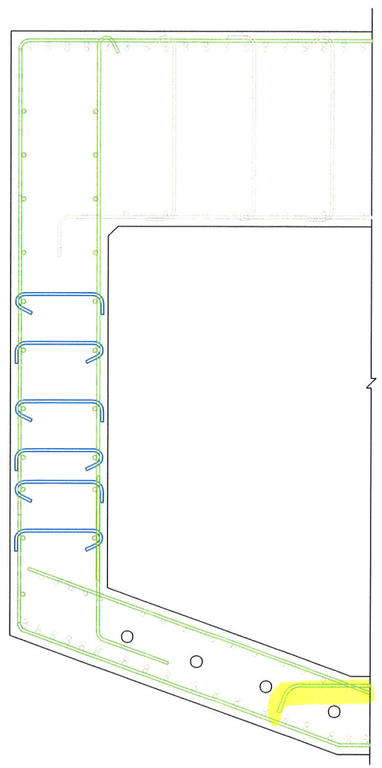


EAST FACE REINFORCEMENT-EXTERIOR AND INTERIOR PLAN(NORTH)

(North Side Shown, South Side Similar)
1:30

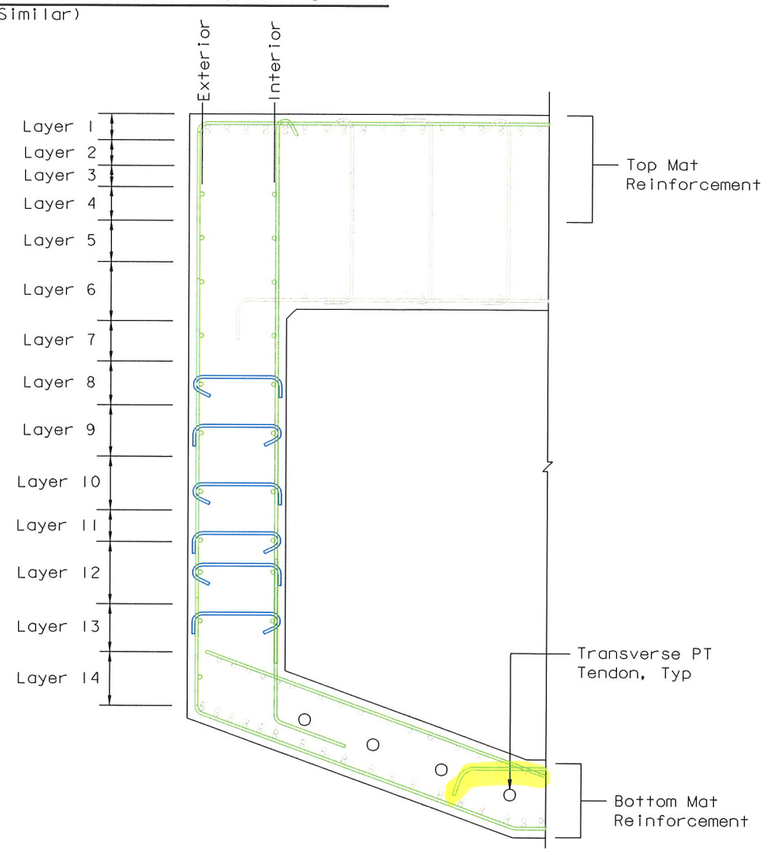


SECTION C-C



SECTION D-D

EAST FACE REINFORCEMENT
(North Side Shown, South Side Similar)
1:30



LAYER ID

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 25

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

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET | OF
07/21/06 | 080SI

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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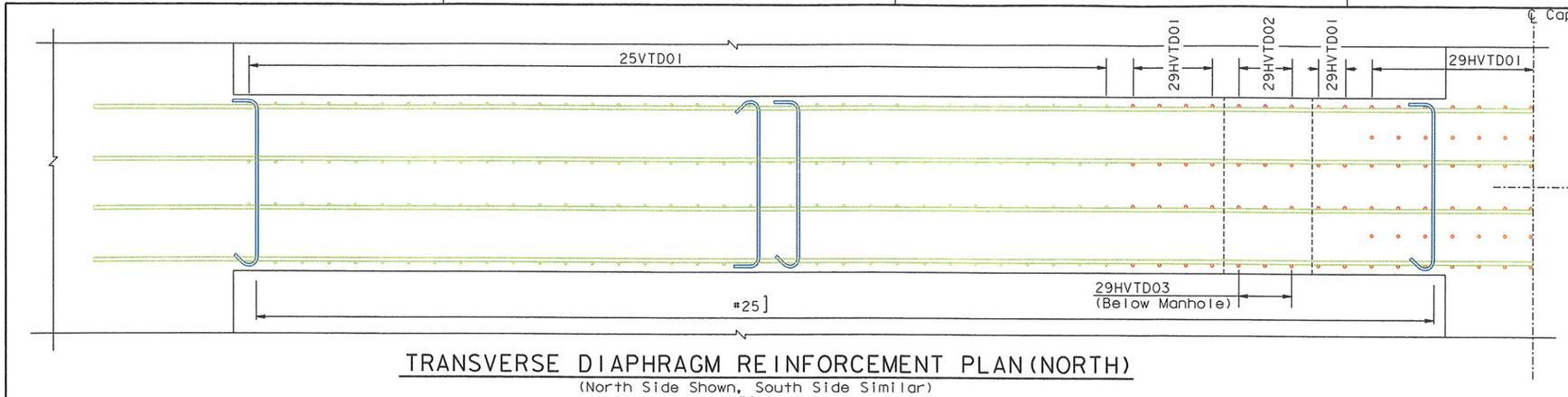
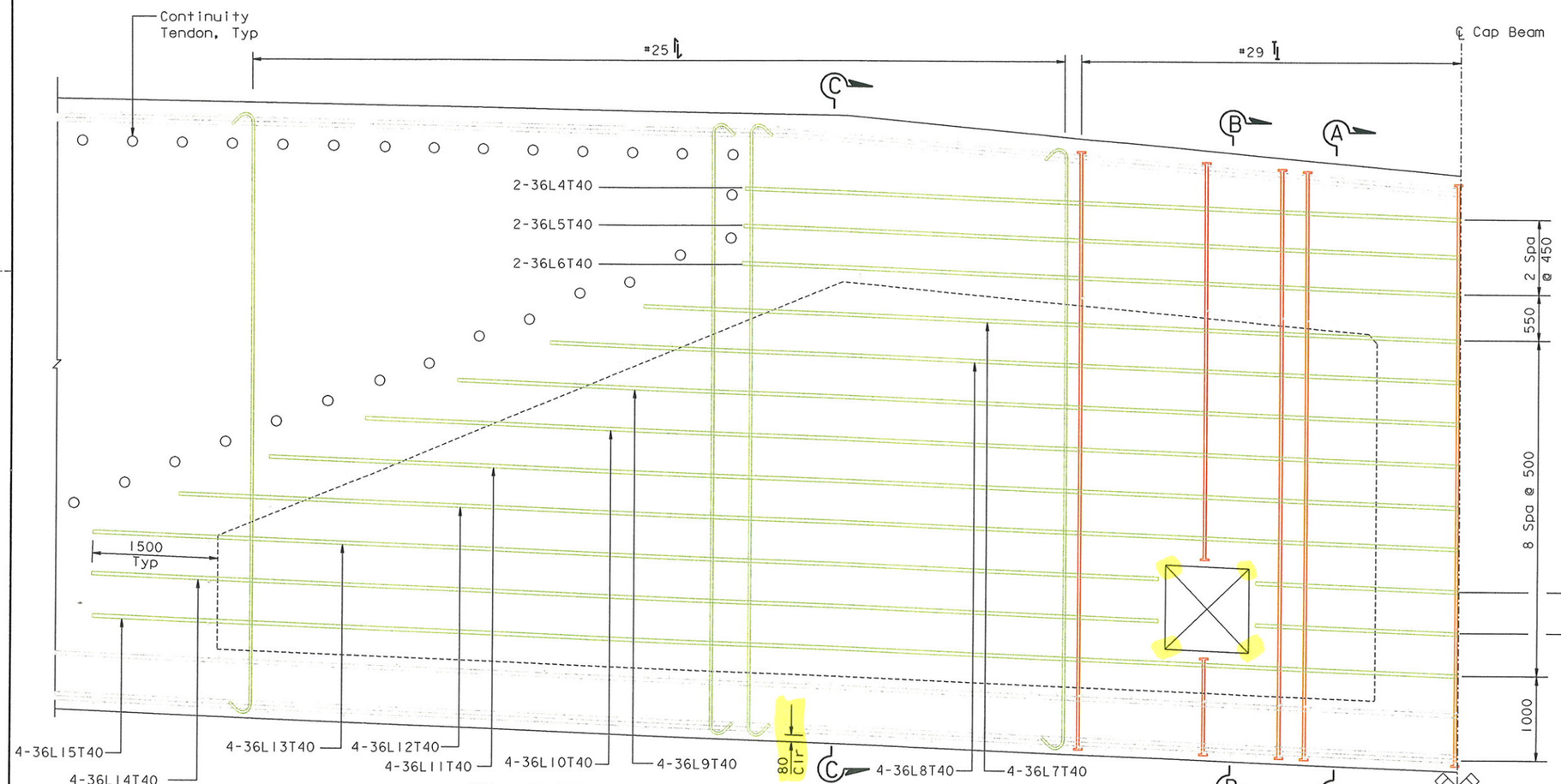
USERNAME => vlgnatovs



TRANSVERSE DIAPHRAGM REINFORCEMENT PLAN (NORTH)

(North Side Shown, South Side Similar)

1:30

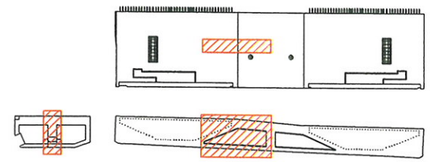


TRANSVERSE DIAPHRAGM REINFORCEMENT

(North Side Shown, South Side Similar)

1:30

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



LOCATION KEY

NTS

NOTES:

1. For Section A-A thru C-C, see "W2 Cap Beam Reinforcement Details No.27" sheet.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____

SHEET ___ OF ___

100% PS&E

TIME PLOTTED => 15:06:34

DATE PLOTTED => 17 JUL 2006

USERNAME => vignatovs

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S2	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL

James P. Duxbury

07-21-06

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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825 BATTERY STREET
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R. Valizadeh/V. Toan/Y.L./W.L./F.C.			
DESIGN OVERSIGHT			
Sign Off Date 07/21/06			
Rev. Date: 5-18-98			

DESIGN	BY J. Duxbury	CHECKED A. Sanjines	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY J. Duxbury	CHECKED A. Sanjines	
QUANTITIES	BY N. Vo	CHECKED A. Sanjines	

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 26

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

CU 04
EA 0120F1

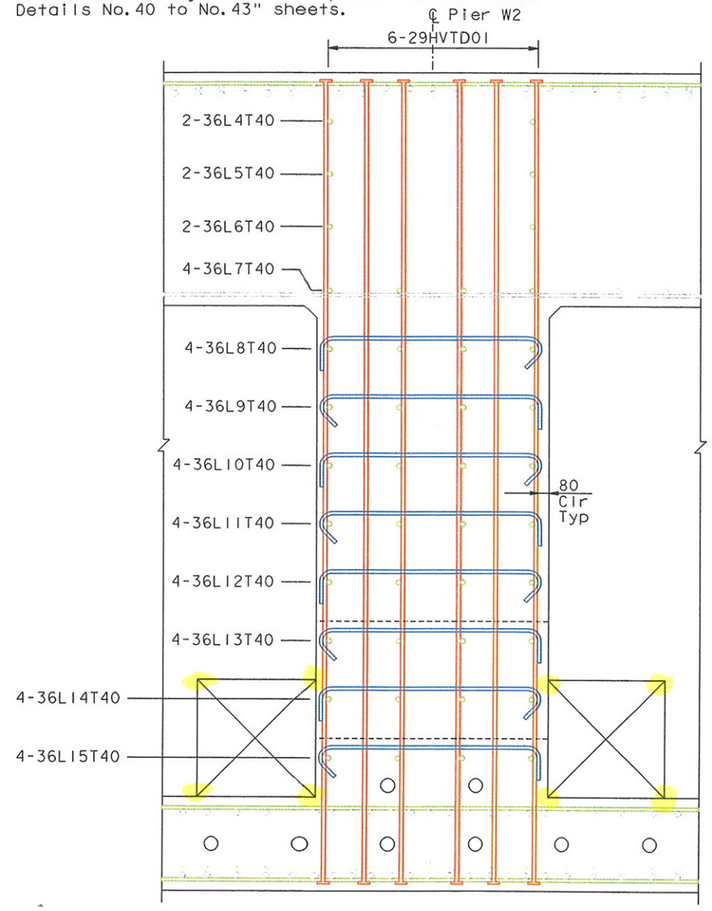
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)											SHEET	OF
07/21/06											080S2	

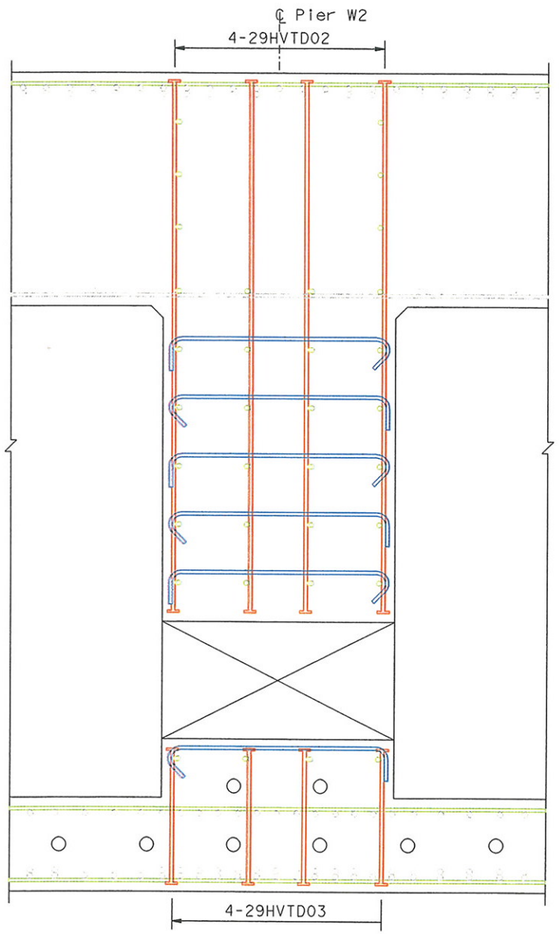
FILE => p:\bb\04-012001\sas readv august 2005\cco#23\aecap25r-s.dgn

NOTES:

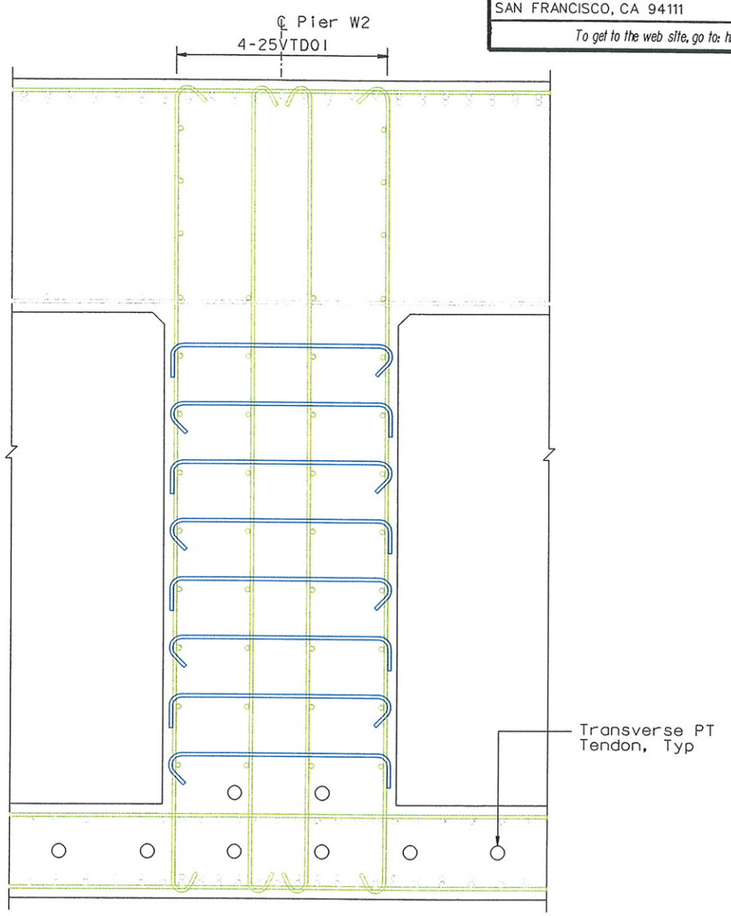
1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 2 to No. 8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 9 to No. 18" sheets.
3. Jacking Saddle reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 30 to No. 33" sheets.
4. Horizontal and vertical stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.



SECTION A-A



SECTION B-B



SECTION C-C

TRANSVERSE DIAPHRAGM REINFORCEMENT

(North Side Shown, South Side Similar)

1:30

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S3	1204

REGISTERED ~~ENGINEER~~ - CIVIL

07-21-06

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SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____

SHEET ___ OF ___

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R. Valizadeh/V. Toan/Y.L./W.L./F.C.			
DESIGN OVERSIGHT			
SIGN OFF DATE 07/21/06			
Rev. Date: 5-18-98			
DESIGN	BY J. Duxbury	CHECKED A. Sanjines	
DETAILS	BY J. Duxbury	CHECKED A. Sanjines	
QUANTITIES	BY N. Vo	CHECKED A. Sanjines	

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 27

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) 07/21/06

SHEET 08053 OF

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100% PS&E

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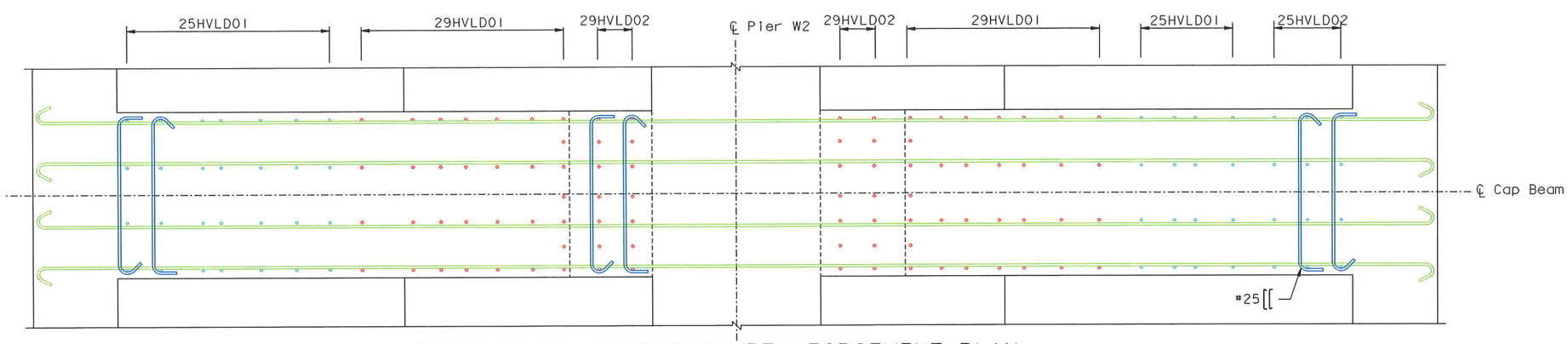
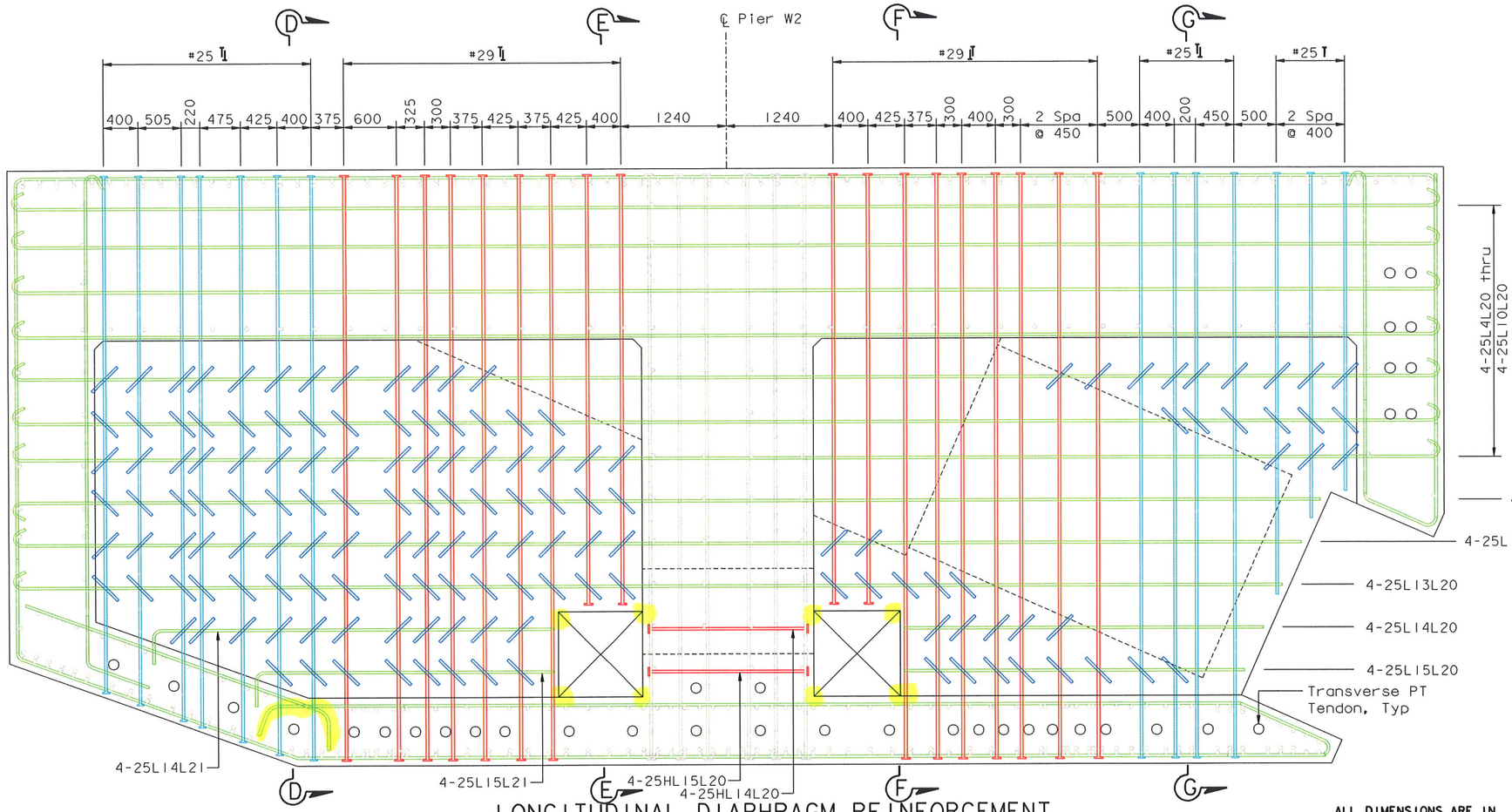


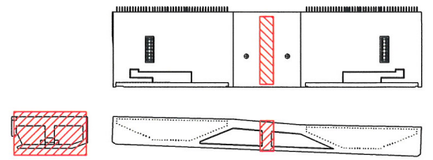
LONGITUDINAL DIAPHRAGM REINFORCEMENT PLAN
1:30



LONGITUDINAL DIAPHRAGM REINFORCEMENT
1:30

NOTES:

1. For Section D-D thru G-G, see "W2 Cap Beam Reinforcement Details No.29" sheet.



LOCATION KEY
NTS

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S4	1204

REGISTERED ENGINEER - CIVIL

07-21-06
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — James P.Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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

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R. Valizadeh/V.Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

Rev. Date: 5-18-98

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

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

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 28

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 07/21/06

SHEET 080S4 OF

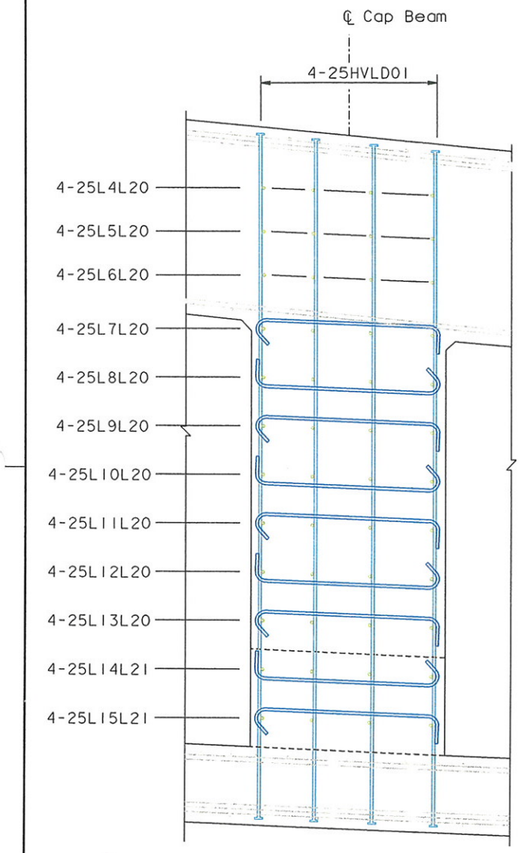
FILE => p:\bb\04-012001\sas ready august 2005\cco*23\aecap27r-s.dgn

USERNAME => vlgnotovs DATE PLOTTED => 01 AUG 2006 TIME PLOTTED => 07:34:17

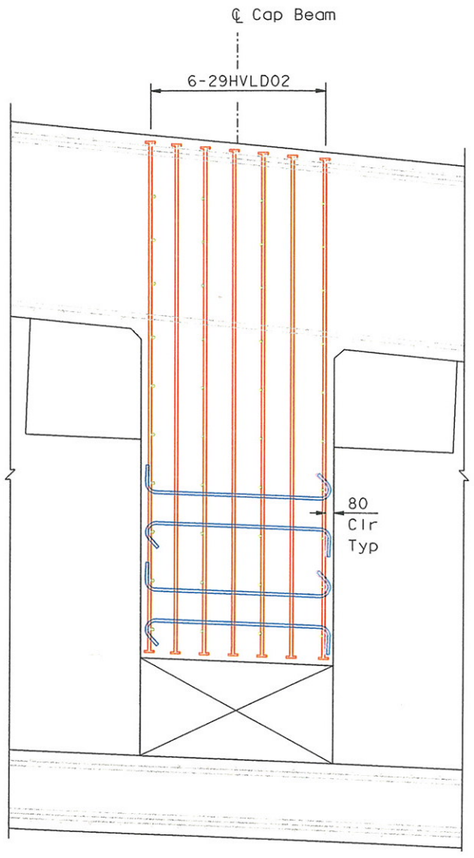
100 % PS&E

NOTES:

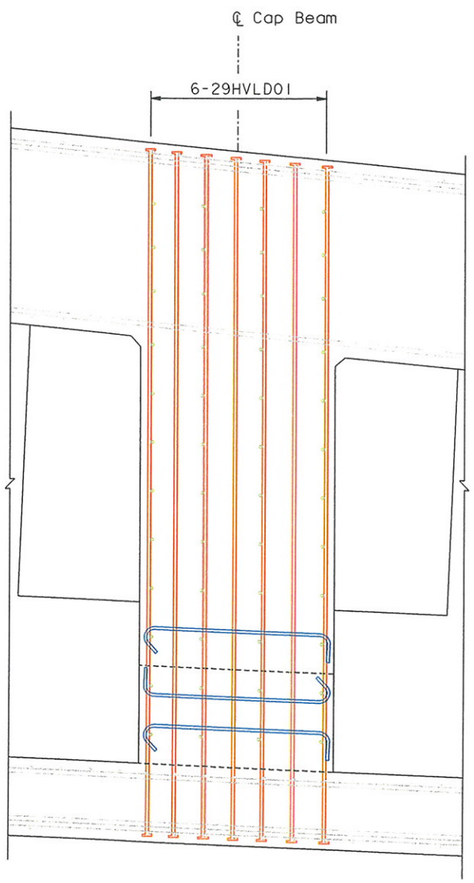
1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 2 to No. 8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 9 to No. 18" sheets.
3. Jacking Saddle reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 30 to No. 33" sheets.
4. Horizontal and vertical stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.



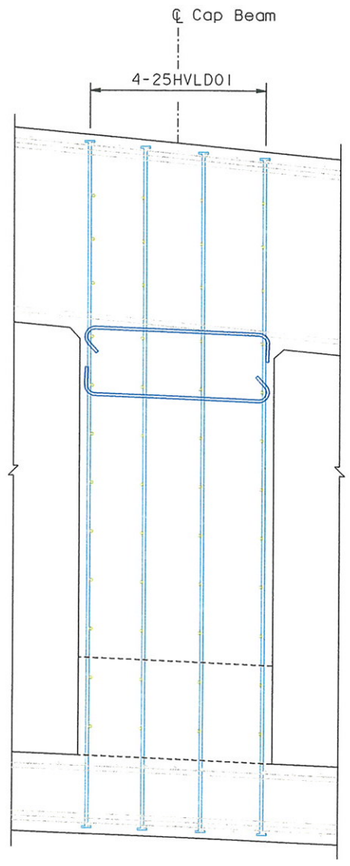
SECTION D-D



SECTION E-E



SECTION F-F



SECTION G-G

LONGITUDINAL DIAPHRAGM REINFORCEMENT

1:30

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____

SHEET ____ OF ____

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	497S5	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL

07-21-06

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER James P. Duxbury No. C 64677 Exp. 06/30/07 CIVIL STATE OF CALIFORNIA

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USERNAME => vignatovsk DATE PLOTTED => 14 JUL 2006 TIME PLOTTED => 08:18:58

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Reza Valizadeh / Vong Toan / Y. Liu
SIGN OFF DATE 07/21/06

Rev. Date: 5-18-98

	BY	CHECKED
DESIGN	J. Duxbury	A. Sunjines
DETAILS	J. Duxbury	A. Sunjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 29

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

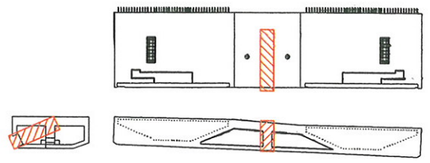
CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 07/21/06

SHEET 080S5 OF

FILE => p:\bb\04-012001\sas readv august 2005\cco#23\aecap28r-s.dgn



LOCATION KEY
NTS

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S6	1204

REGISTERED ENGINEER - CIVIL

07-21-06
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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

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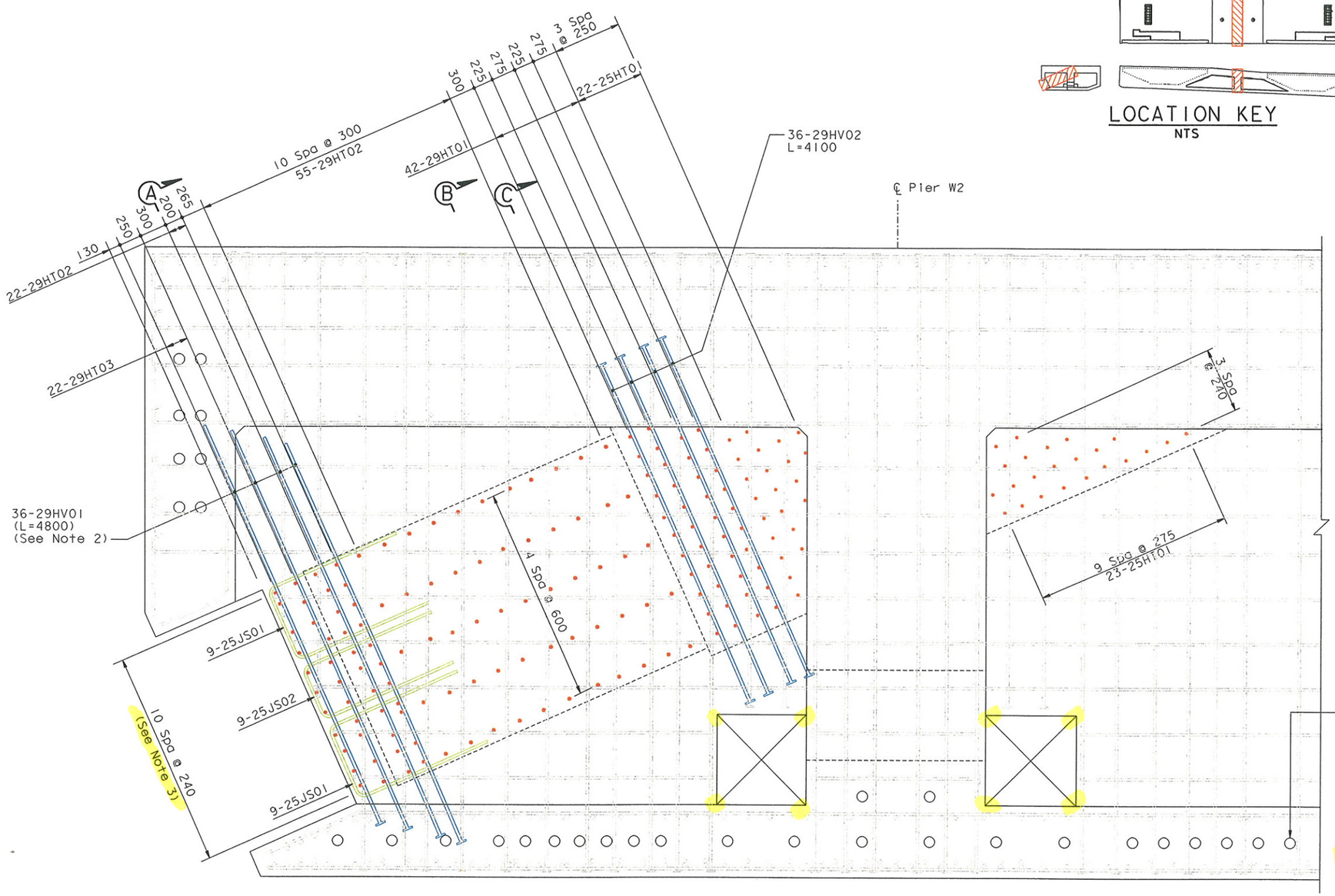

JACKING SADDLE REINFORCEMENT
(Jacking Frame At Longitudinal Diaphragm)
1:25

NOTES:

1. For Section A-A thru C-C, see "W2 Cap Beam Reinforcement Details No.32" sheet.
2. Extend headed bar beyond Bottom Mat Layer B1.
3. Space as required to clear diaphragm reinforcement.
4. For Longitudinal diaphragm reinforcement, see "W2 Cap Beam Reinforcement Details No.28" sheet.
5. Jacking Saddle reinforcement placed normal to axis of jacking frame.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

100 % PS&E
TIME PLOTTED => 14:10:32
DATE PLOTTED => 17 JUL 2006
USERNAME => vignatovs

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

CU 04
EA 0120F1

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 30

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)											SHEET	OF
07/21/06											080S6	

FILE => p:\bb\04-012001\sas ready august 2005\cco#23\aecap29r-s.dgn

NOTES:

1. For Section A-A thru C-C, see "W2 Cap Beam Reinforcement Details No.32" sheet.
2. For reinforcement spacing, see "W2 Cap Beam Reinforcement Details No.30" sheet.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S7	1204

REGISTERED ENGINEER - CIVIL

07-21-06

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER James P.Duxbury No. C 64677 Exp. 06/30/07 CIVIL STATE OF CALIFORNIA

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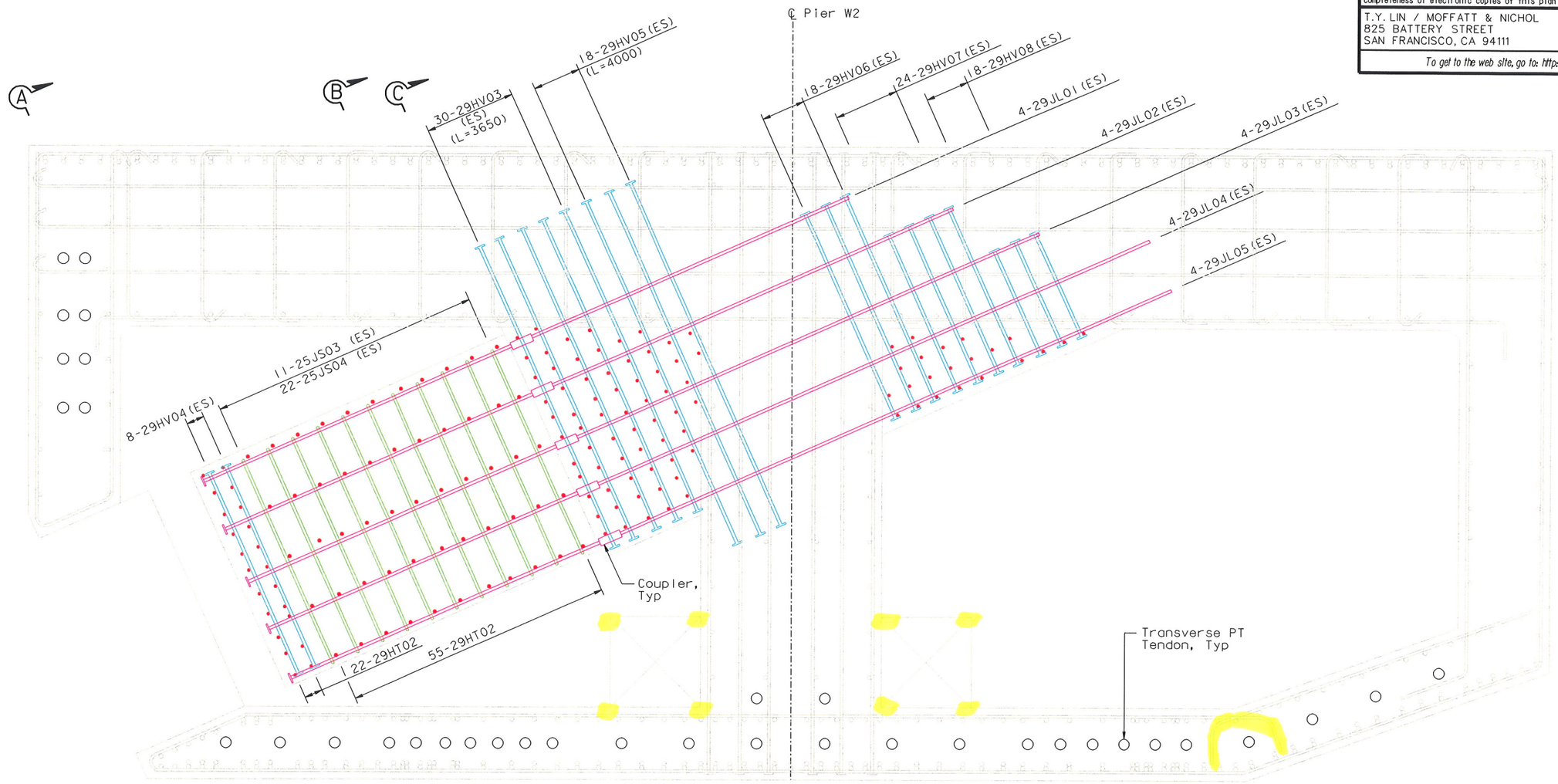

JACKING SADDLE REINFORCEMENT
(Jacking Frame At Support Block)
1:25

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO.31

R. Valizadeh/V.Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

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) 07/21/06

SHEET 080S7 OF

FILE => p:\bb\04-012001\sas readv august 2005\cco#23\aecap30r-s.dgn

100 % PS&E

USERNAME => vignatovs DATE PLOTTED => 01 AUG 2006 TIME PLOTTED => 07:58:37

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

NOTES:

1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.2 to No.8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.9 to No.18" sheets.
3. Diaphragm reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.26 to No.29" sheets.
4. Horizontal and vertical stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.40 to No.43" sheets.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S8	1204

REGISTERED ENGINEER - CIVIL

07-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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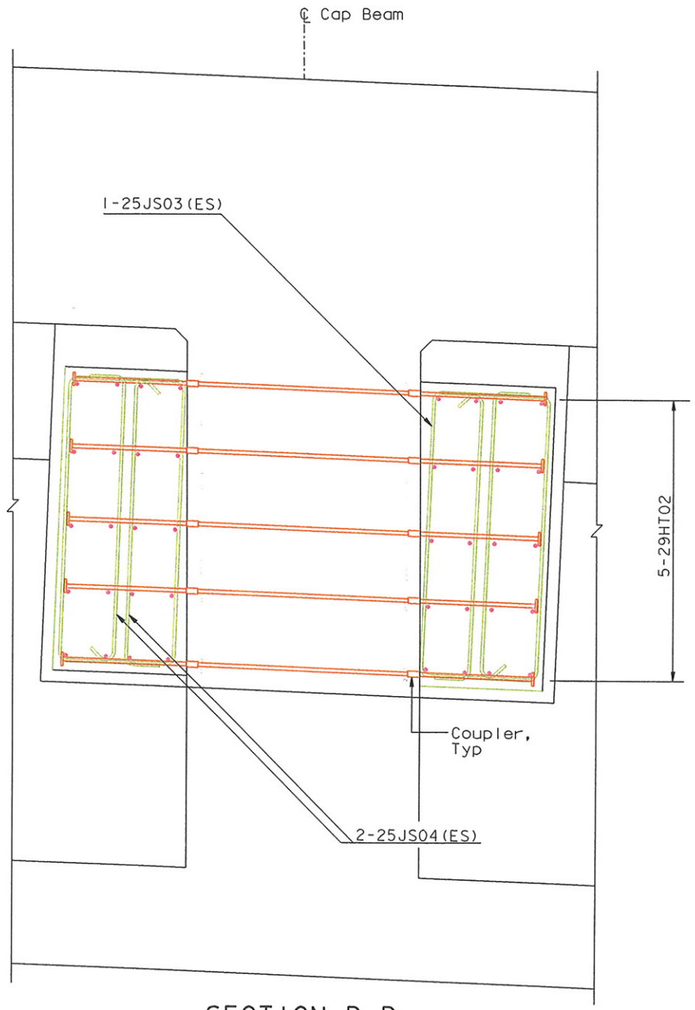
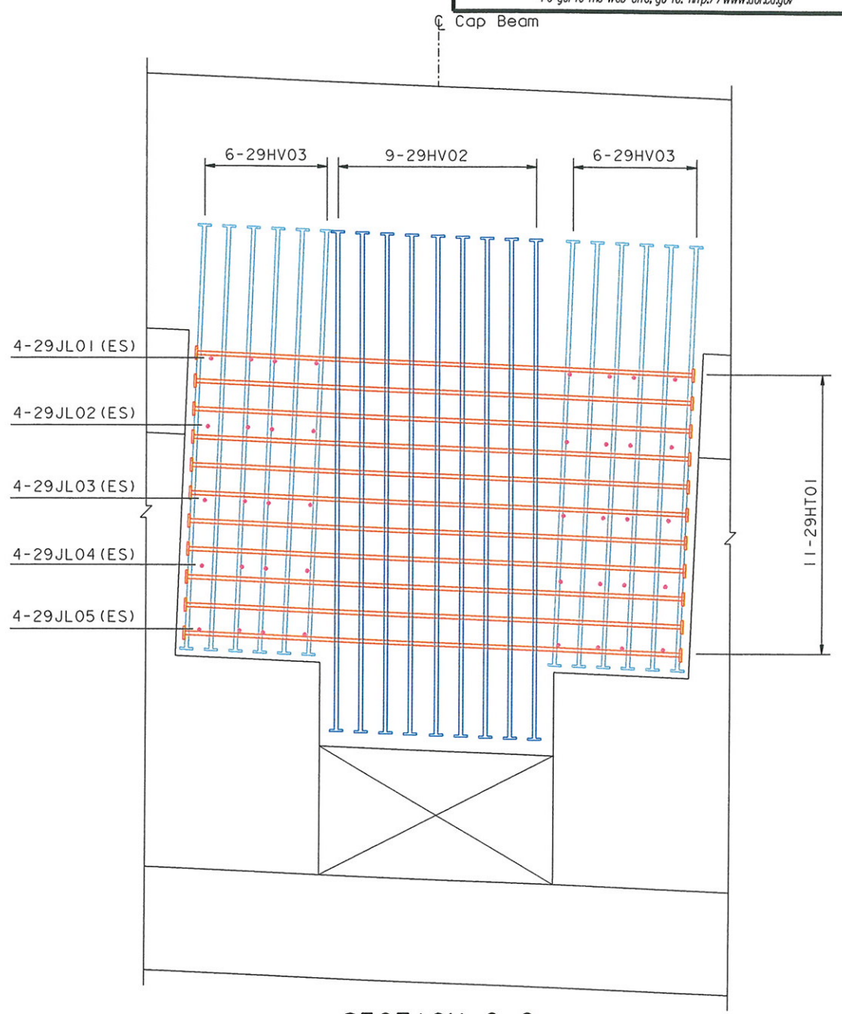
SECTION A-A



SECTION B-B



SECTION C-C

JACKING SADDLE REINFORCEMENT

1:30

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 32

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
07/21/06	080S8	

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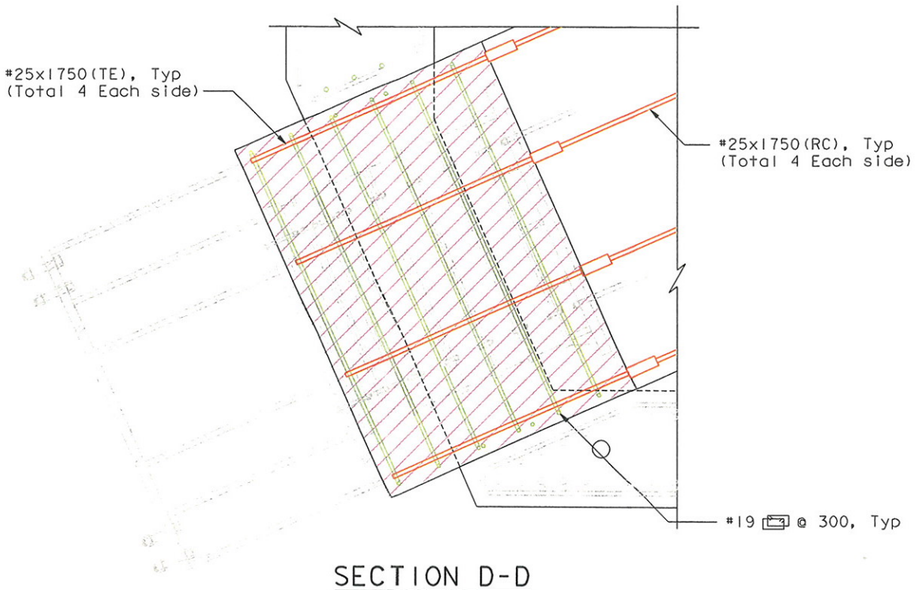
USERNAME => vignatovs



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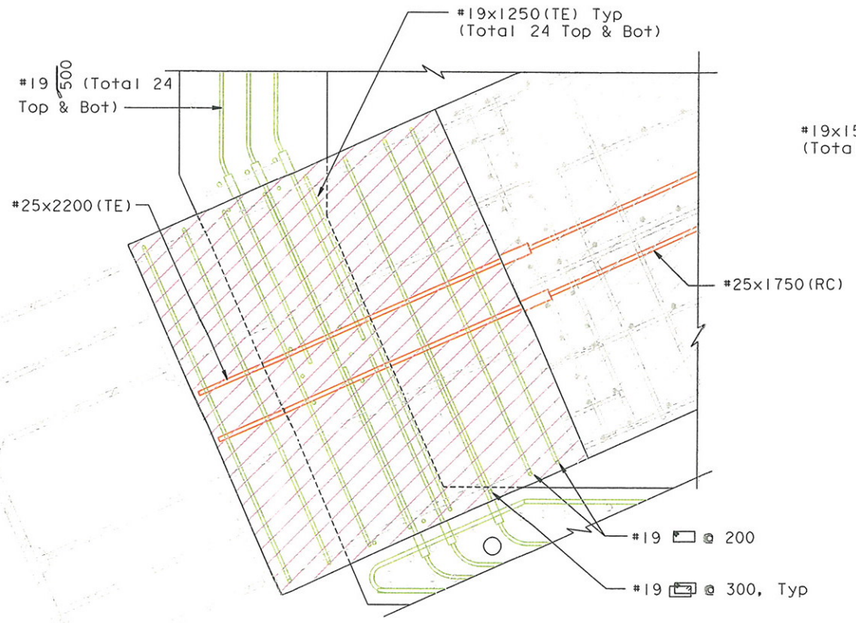

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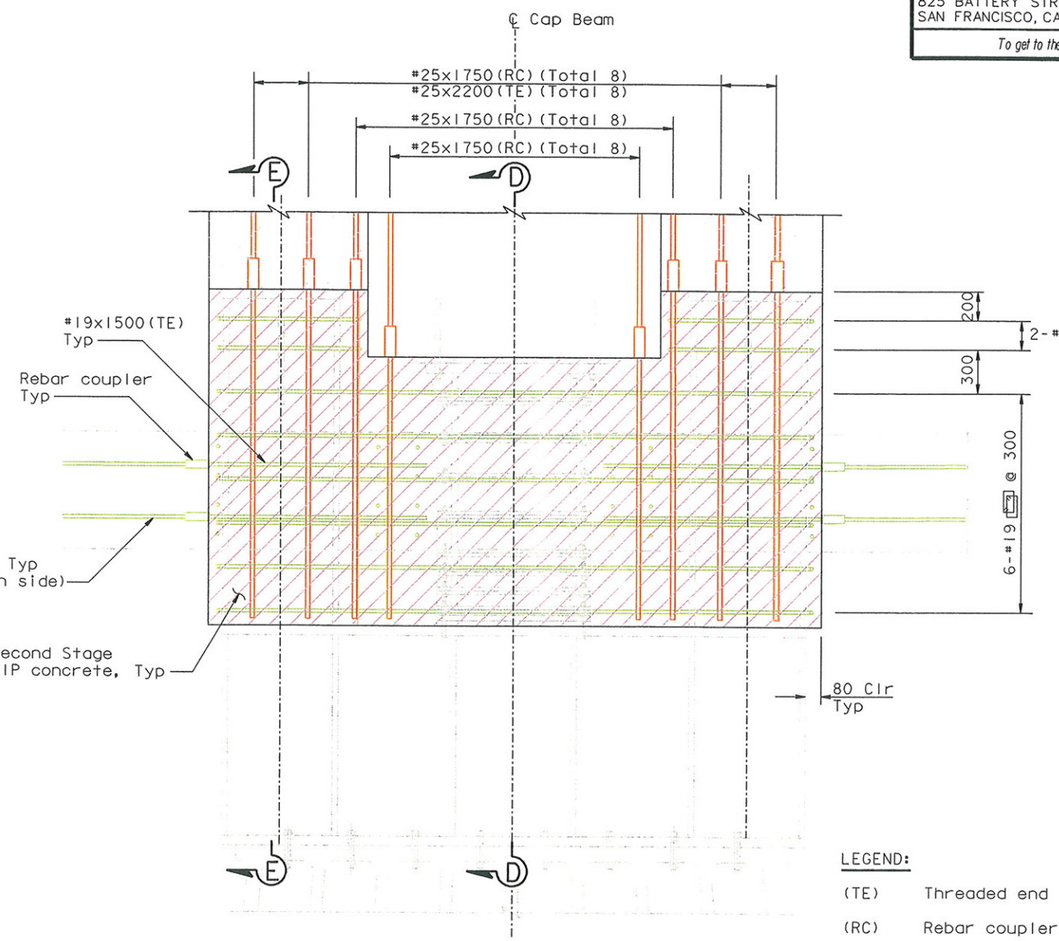
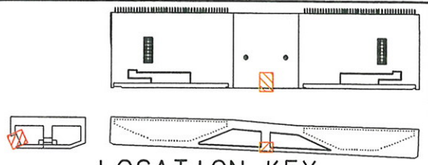


JACKING FRAME PLAN

LEGEND:

(TE) Threaded end

(RC) Rebar coupler



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	49759	1204

REGISTERED ENGINEER - CIVIL

07-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James P.Duxbur
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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SECOND STAGE CIP CONCRETE REINFORCEMENT
(At Jacking Frame)
1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

SUPPLEMENTAL SHEET
CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

R. Valizadeh/V. Toan/Y.L./W.L./F.C. DESIGN OVERSIGHT Sign Off Date 07/21/06		DESIGN	J. Duxbury	A. Sanjines	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
		DETAILS	J. Duxbury	A. Sanjines	
		QUANTITIES	N. Vo	J. Duxbury	
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)		
			W2 CAP BEAM REINFORCEMENT DETAILS NO. 33		

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): 07/21/06

SHEET 080S9 OF

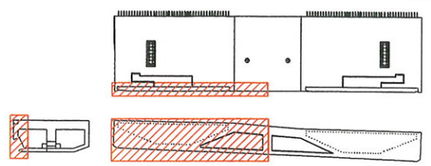
FILE => p:\bb\04-012001\sas readv august 2005\cco*23\aecap33r-c.dgn

100% PS&E

TIME PLOTTED => 08:40:17
DATE PLOTTED => 14 JUL 2006
USERNAME => vignatovs

NOTES:

1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 2 to No. 8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 9 to No. 18" sheets.
3. West Face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 19 to No. 25" sheets.
4. Blockout reinforcement not shown for clarity. See "W2 Cap Beam Blockout Details" sheets.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S10	1204

REGISTERED ENGINEER - CIVIL

James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

07-21-06
PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94111

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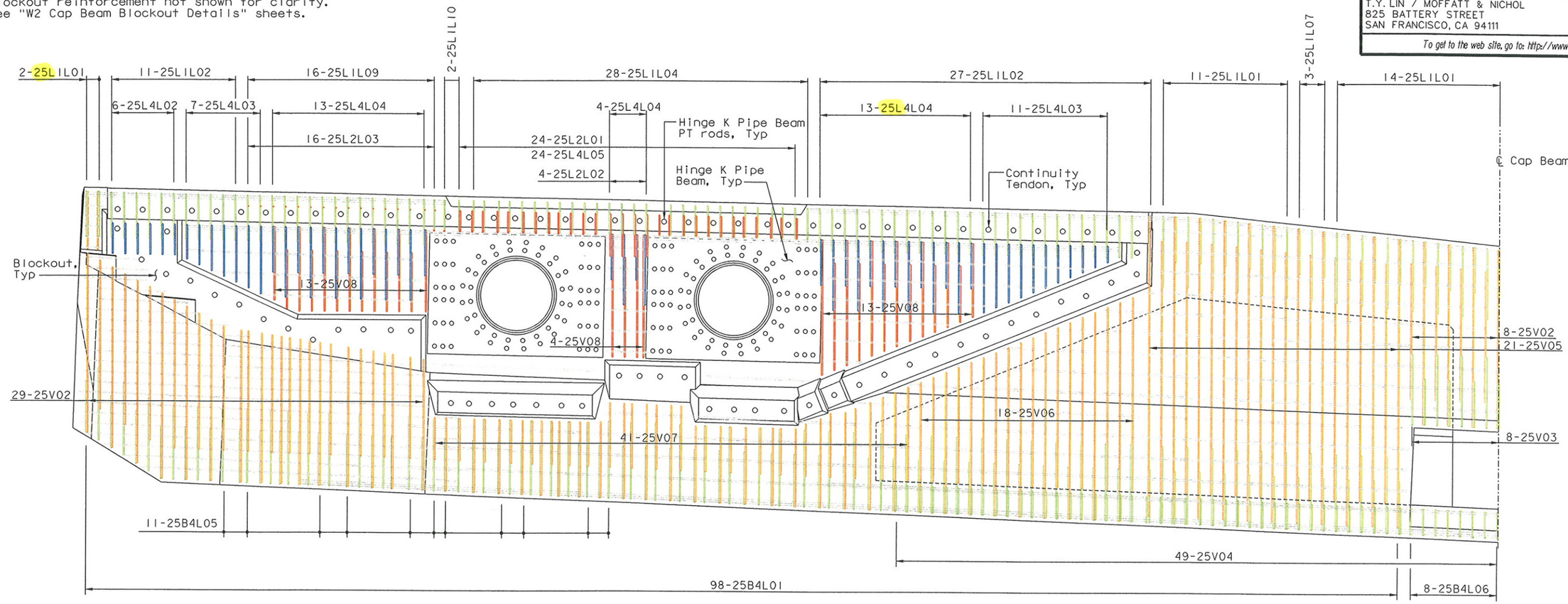


WEST FACE SKIN REINFORCEMENT (NORTH) (EXTERIOR)

(Looking East) (South Side Similar)
1:50

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C. DESIGN OVERSIGHT Reza Valizadeh /S/ Vong Toan / Y. Liu SIGN OFF DATE 07/21/06	DESIGN BY J. Duxbury CHECKED A. Sanjines	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	R. Manzanarez PROJECT ENGINEER
	DETAILS BY J. Duxbury CHECKED A. Sanjines		
	QUANTITIES BY N. Vo CHECKED J. Duxbury		

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 34

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 →

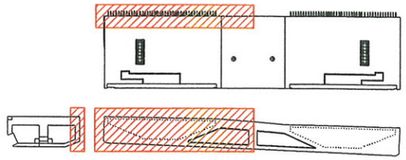
REVISION DATES (PRELIMINARY STAGE ONLY)												SHEET	OF
07/21/06												080S10	

FILE => p:\bb\04-012001\sas readv august 2005\cco*23\aecap32r-s.dgn

100% PS&E
TIME PLOTTED => 08:55:06
DATE PLOTTED => 21 JUL 2006
USERNAME => vignotovs

NOTES:

1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 2 to No. 8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 9 to No. 18" sheets.
3. East Face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 19 to No. 25" sheets.
4. Closure Joint reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 48 to No. 49" sheets.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S11	1204

REGISTERED ENGINEER - CIVIL
07-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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825 BATTERY STREET
SAN FRANCISCO, CA 94111

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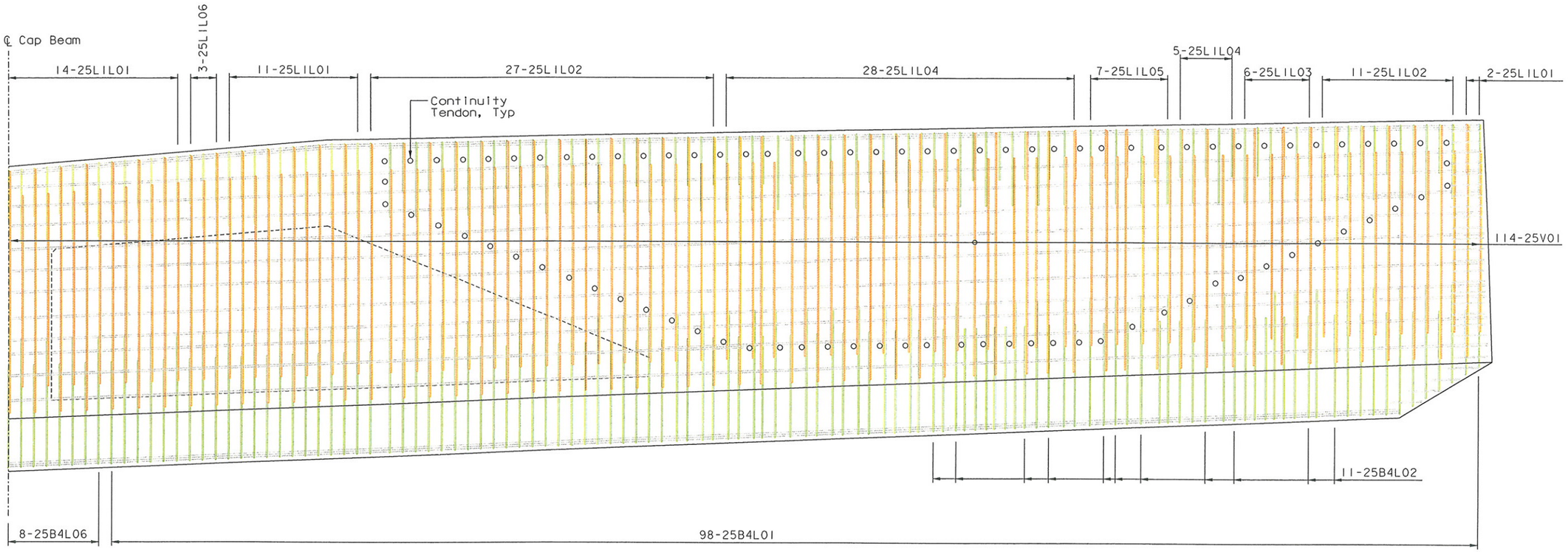


EAST FACE SKIN REINFORCEMENT (NORTH) (EXTERIOR)
(Looking West) (South Side Similar)
1:50

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 35

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Reza Valiza / Vong Toan / Y. Liu
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

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) 07/21/06

SHEET 080S11 OF

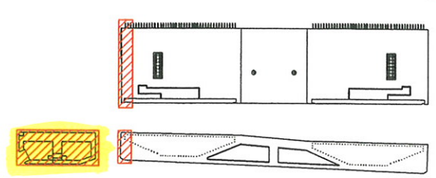
FILE => p:\bb\04-012001\sas readv august 2005\cco#23\aecap33r-s.dgn

100 % PS&E

USERNAME => vignatovs DATE PLOTTED => 14 JUL 2006 TIME PLOTTED => 08:42:38

NOTES:

1. For Section A-A thru D-D, see "W2 Cap Beam Reinforcement Details No.37" sheet.
2. For Section E-E thru J-J, see "W2 Cap Beam Reinforcement Details No.38" sheet.
3. Blockout reinforcement not shown for clarity. See "W2 Cap Beam Blockout Details" sheets.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S12	1204

REGISTERED ENGINEER - CIVIL
James P. Duxbury
07-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James P.Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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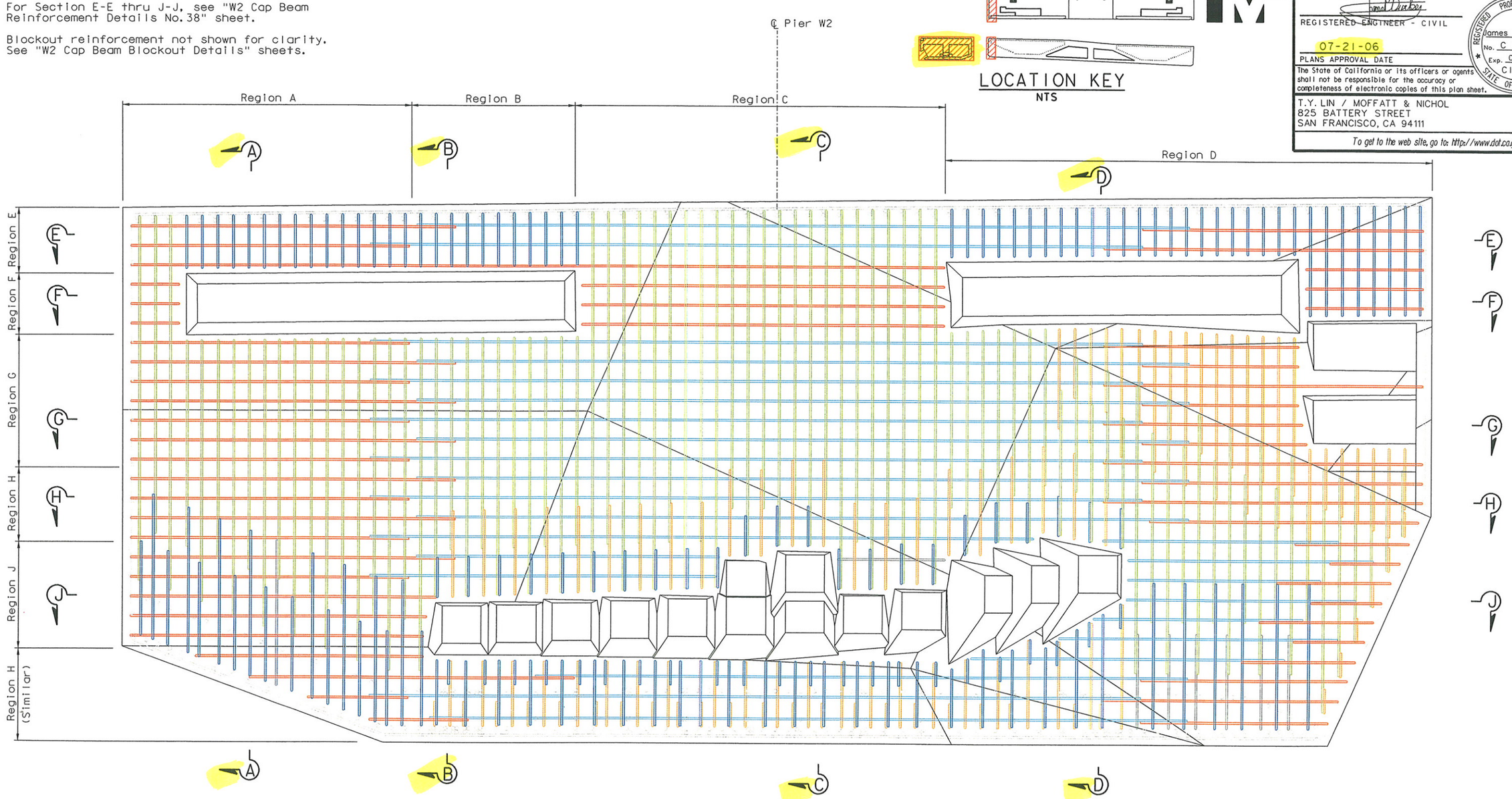

CAP END SKIN REINFORCEMENT (NORTH)
(South End Similar)
1:25

SUPPLEMENTAL SHEET
CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

100 % PS&E

TIME PLOTTED => 14:11:32
DATE PLOTTED => 19 JUL 2006
USERNAME => vignotovs

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

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)
W2 CAP BEAM REINFORCEMENT DETAILS NO. 36

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)	SHEET	OF
07/21/06	080S12	

FILE => p:\bb\04-012001\sas readv august 2005\cco*23\aecap34r-s.dgn

NOTES:

1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 2 to No. 8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 9 to No. 18" sheets.
3. Blockout reinforcement not shown for clarity. See "W2 Cap Beam Blockout Details" sheets.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S13	1204

REGISTERED ENGINEER - CIVIL

James P. Duxbury No. C 64677 Exp. 06/30/07 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

07-21-06

PLANS APPROVAL DATE

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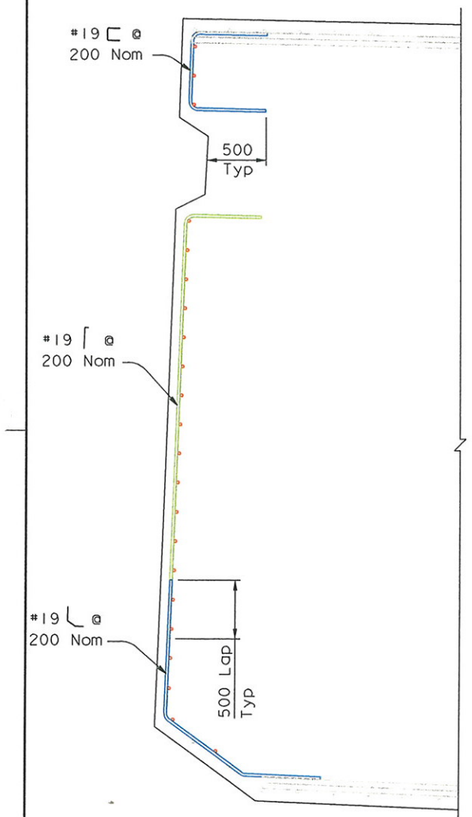
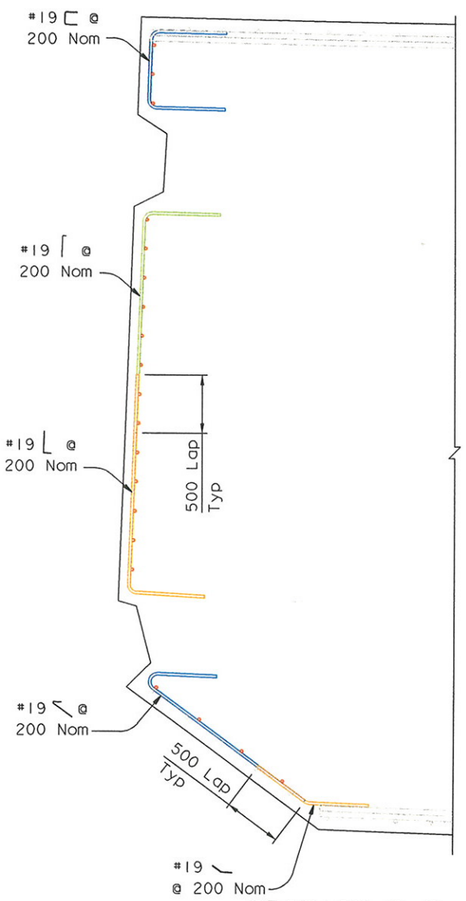
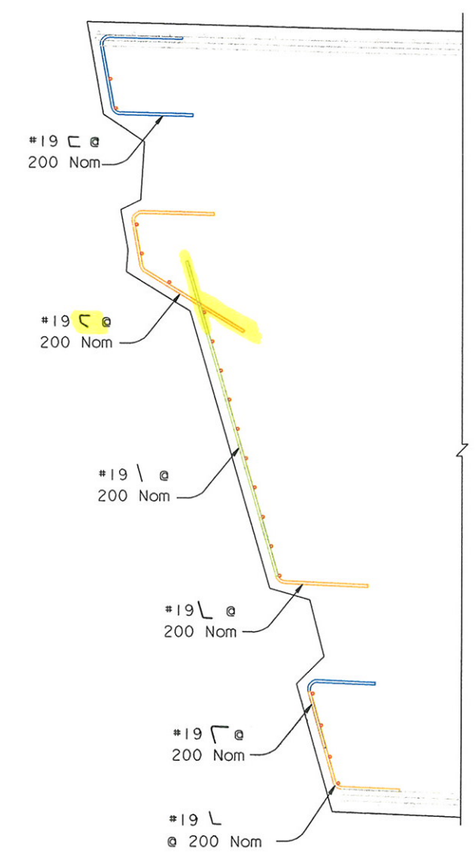


SECTION A-A



SECTION B-B

SECTION C-C



SECTION D-D

CAP END SKIN REINFORCEMENT

(North Side Shown, South Side Similar)

1:25

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____

SHEET ___ OF ___

100 % PS&E

TIME PLOTTED => 15:11:44

DATE PLOTTED => 20 JUL 2006

USERNAME => vignatovs

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT

SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 37

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

CU 04
EA 0120F1

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

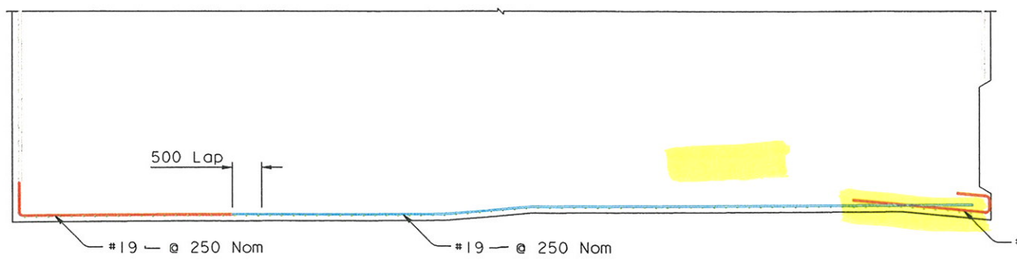
REVISION DATES (PRELIMINARY STAGE ONLY): 07/21/06

SHEET 080S13 OF

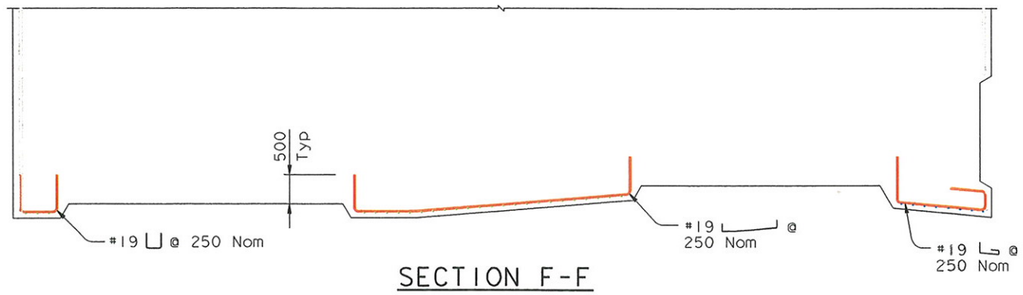
FILE => p:\bb\04-012001\sas ready august 2005\cco*23\oecap35r-s.dgn

NOTES:

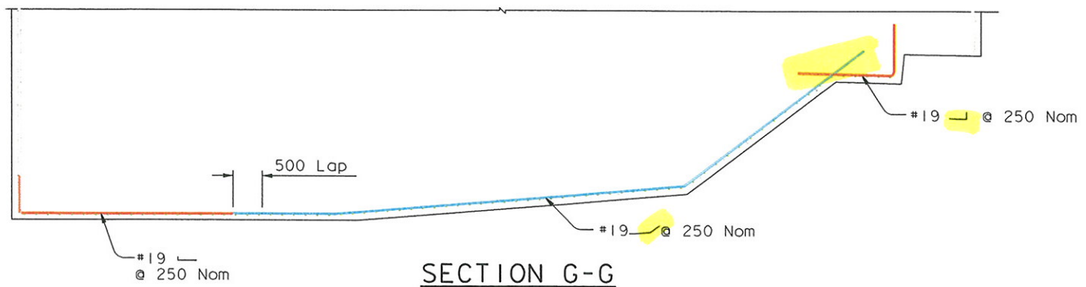
1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.19 to No.25" sheets.
2. Blockout reinforcement not shown for clarity. See "W2 Cap Beam Blockout Details" sheets.



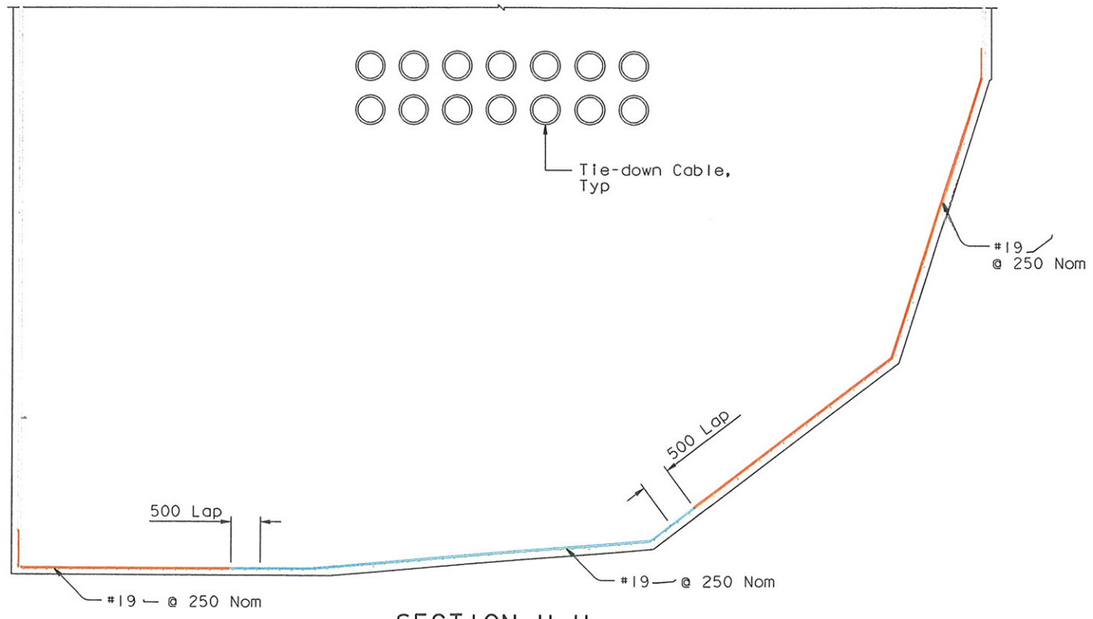
SECTION E-E



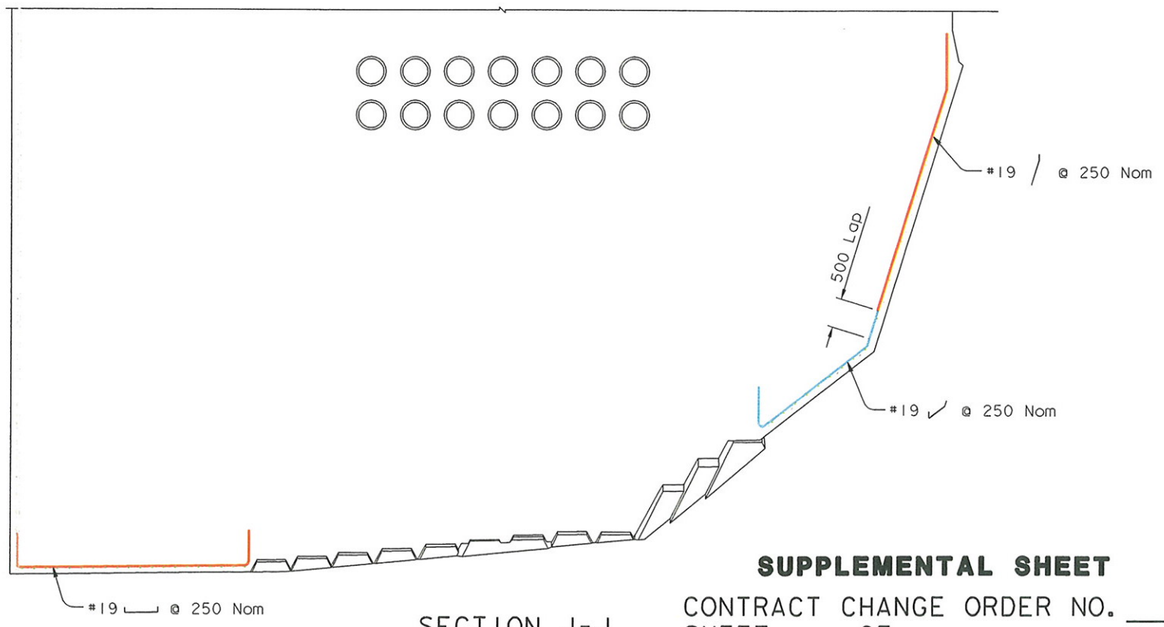
SECTION F-F



SECTION G-G



SECTION H-H



SECTION J-J

CAP END REINFORCEMENT
(North end Shown, South end Similar)
1:25

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

SUPPLEMENTAL SHEET
CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497514	1204

REGISTERED ENGINEER - CIVIL
James P. Duxbury
07-21-06
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

Rev. Date: 5-18-98

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

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)
07/21/06

SHEET 080514 OF

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

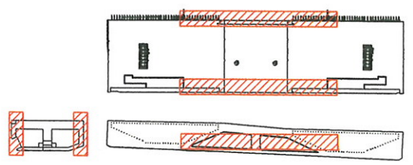
W2 CAP BEAM REINFORCEMENT DETAILS NO. 38

FILE => p:\bb\04-012001\sas readv august 2005\cco#23\aecap36r-s.dgn

100% PS&E
TIME PLOTTED => 09:34:22
DATE PLOTTED => 21 JUL 2006
USERNAME => vignatovs

NOTES:

1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 19 to No. 25" sheets.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497515	1204

REGISTERED ENGINEER - CIVIL

07-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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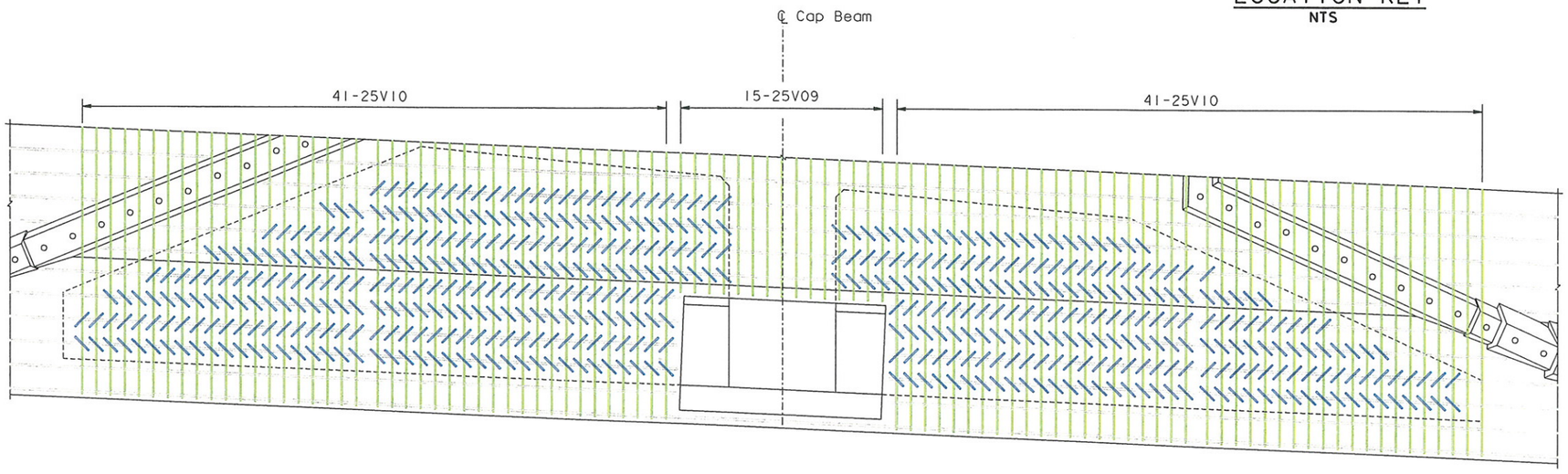
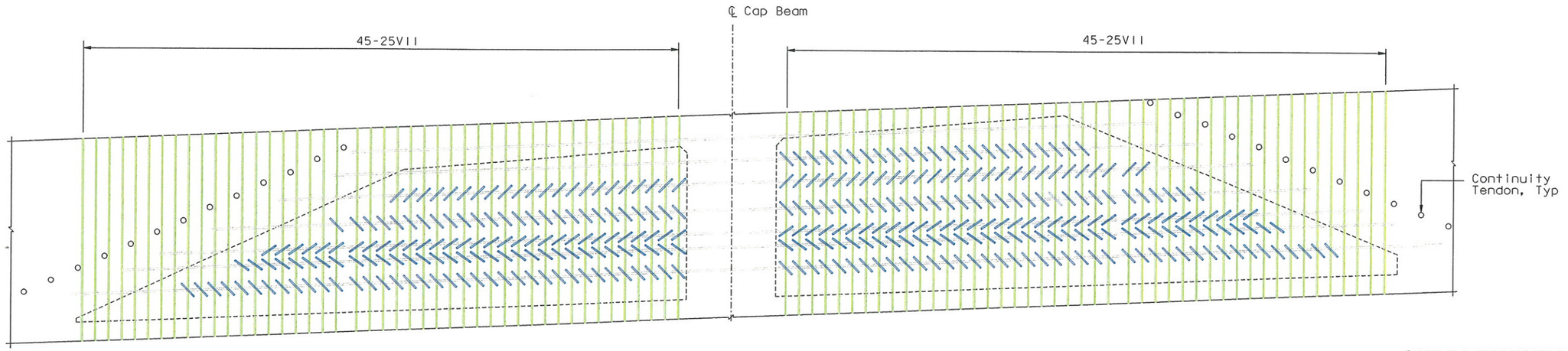


WEST FACE SKIN REINFORCEMENT (INTERIOR)
(Looking East)
NTS



EAST FACE SKIN REINFORCEMENT (INTERIOR)
(Looking West)
NTS

SUPPLEMENTAL SHEET
CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

100% PS&E

USERNAME => vlgnotovs\DATE PLOTTED => 21 JUL 2006 TIME PLOTTED => 09:17:19

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R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 39

Rev. Date: 5-18-98

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

REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET | OF
07/21/06 | 080515 |

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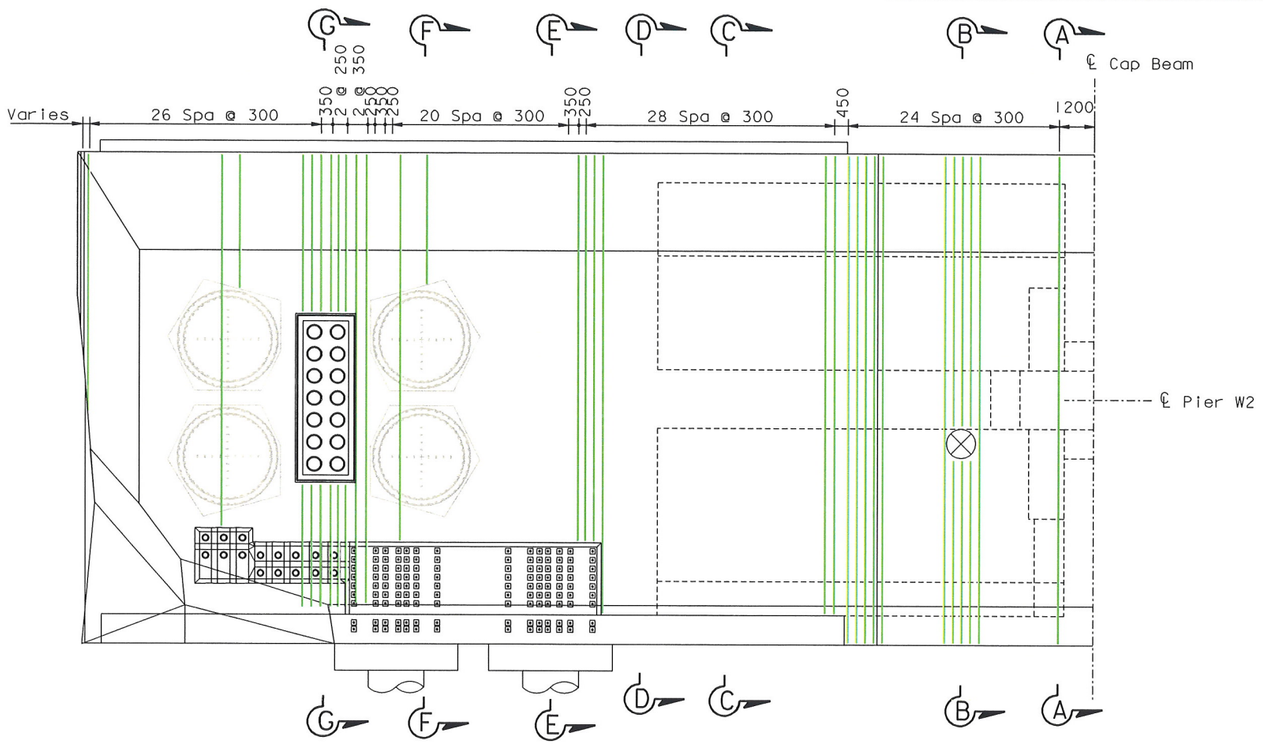
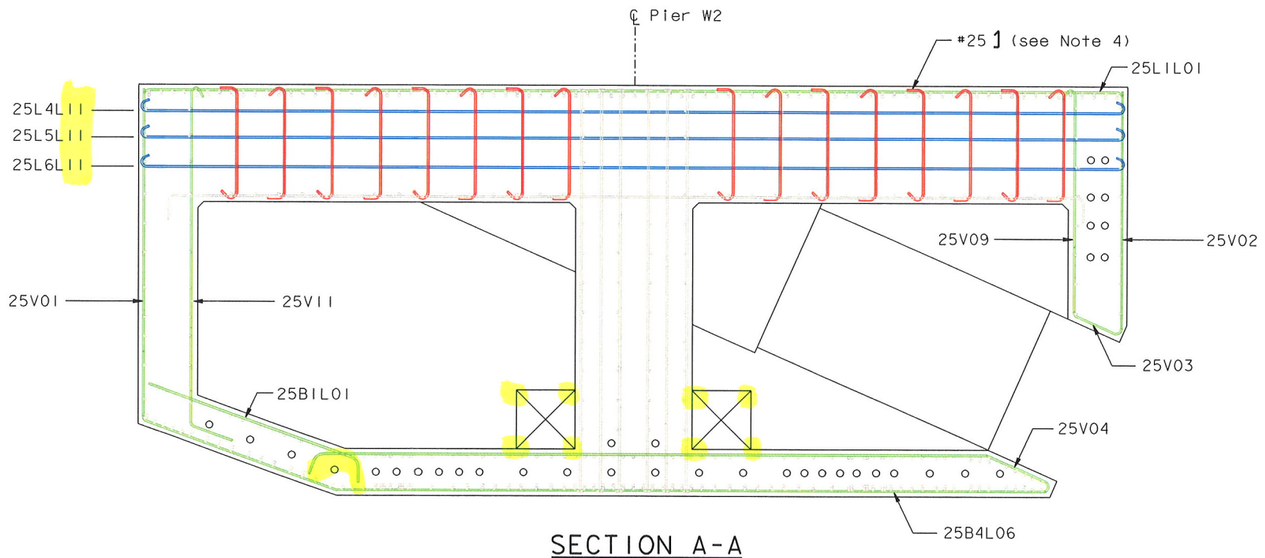


HORIZONTAL STIRRUP REINFORCEMENT PLAN (NORTH) (LAYERS 4-15)

(South Side Similar)

1:100



SECTION A-A

1:50

NOTES:

1. For Section B-B and C-C, see "W2 Cap Beam Reinforcement Details No. 41" sheet.
2. For Section D-D and E-E, see "W2 Cap Beam Reinforcement Details No. 42" sheet.
3. For Section F-F and G-G, see "W2 Cap Beam Reinforcement Details No. 43" sheet.
4. For Top Slab Stirrup Plan, see "W2 Cap Beam Reinforcement Details No. 8" sheet.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____

SHEET ___ OF ___

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	497S16	1204

REGISTERED ENGINEER - CIVIL

07-21-06

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

Rev. Date: 5-18-98

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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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 40

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): 07/21/06

SHEET 080S16 OF

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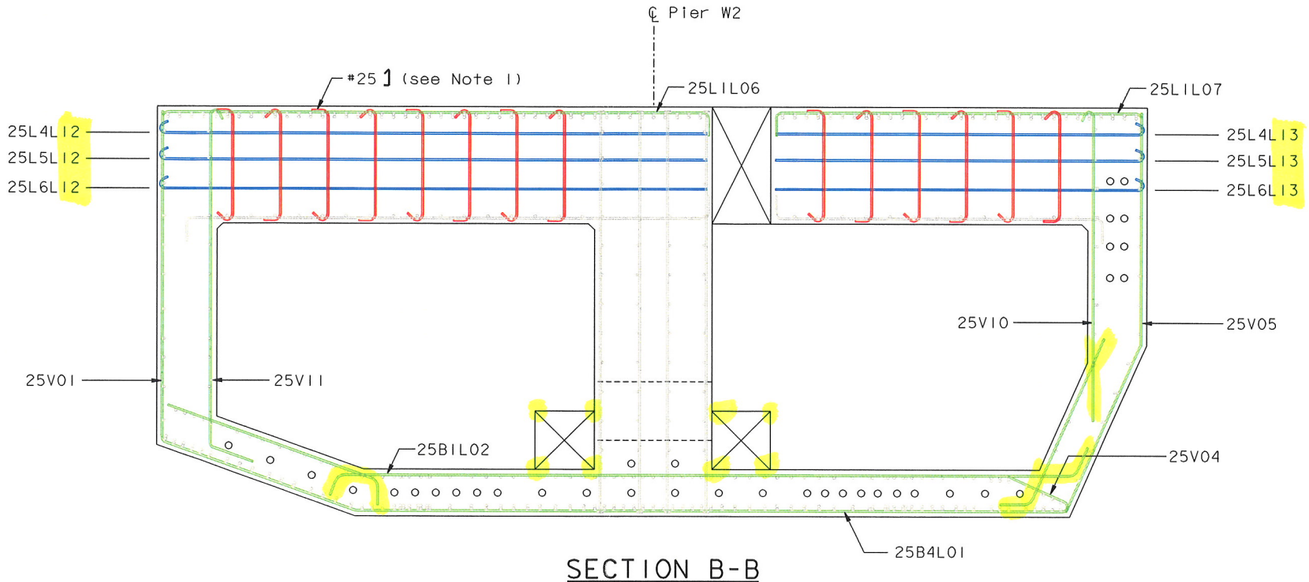
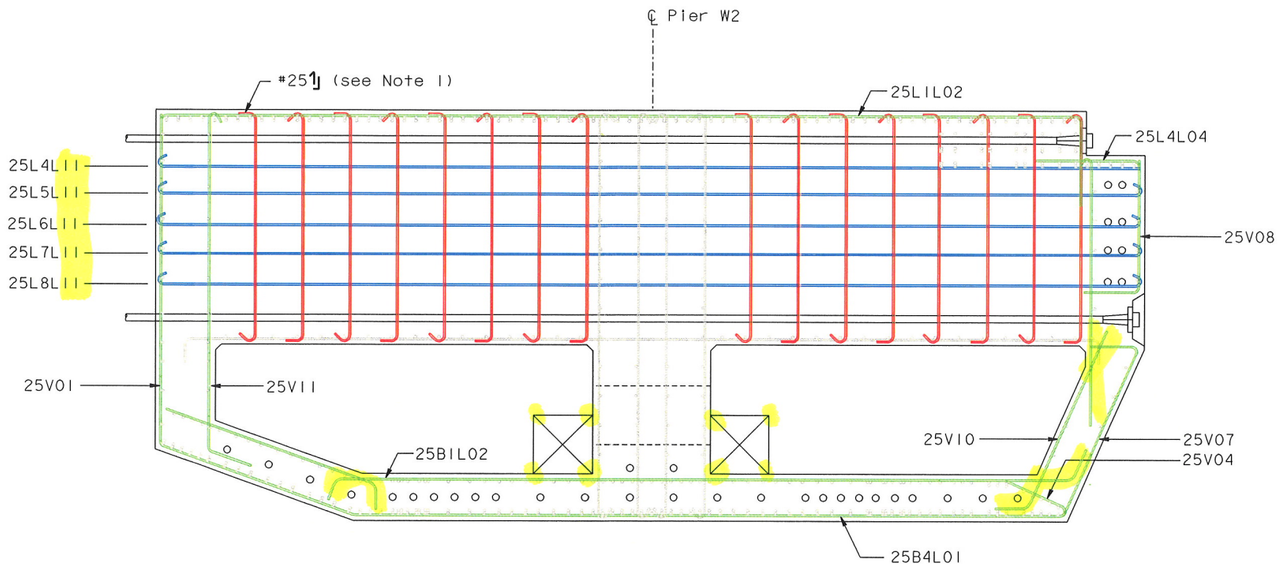
DATE PLOTTED => 01 AUG 2006
USERNAME => vignatovs



SECTION B-B
1:50



SECTION C-C
1:50

NOTES:

1. For Top Slab Stirrup Plan, see "W2 Cap Beam Reinforcement Details No.8" sheet.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S17	1204

REGISTERED ENGINEER - CIVIL
07-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P.Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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R. Valizadeh/V.Toan/Y.L./W.L./F.C.	DESIGN	J. Duxbury	A. Sanjines
DESIGN OVERSIGHT	DETAILS	J. Duxbury	A. Sanjines
Reza Valizadeh /s/ Vong Toan / Y. Liu	QUANTITIES	N. Vo	J. Duxbury
SIGN OFF DATE 07/21/06			

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 41

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)										SHEET	OF
07/21/06										080S17	

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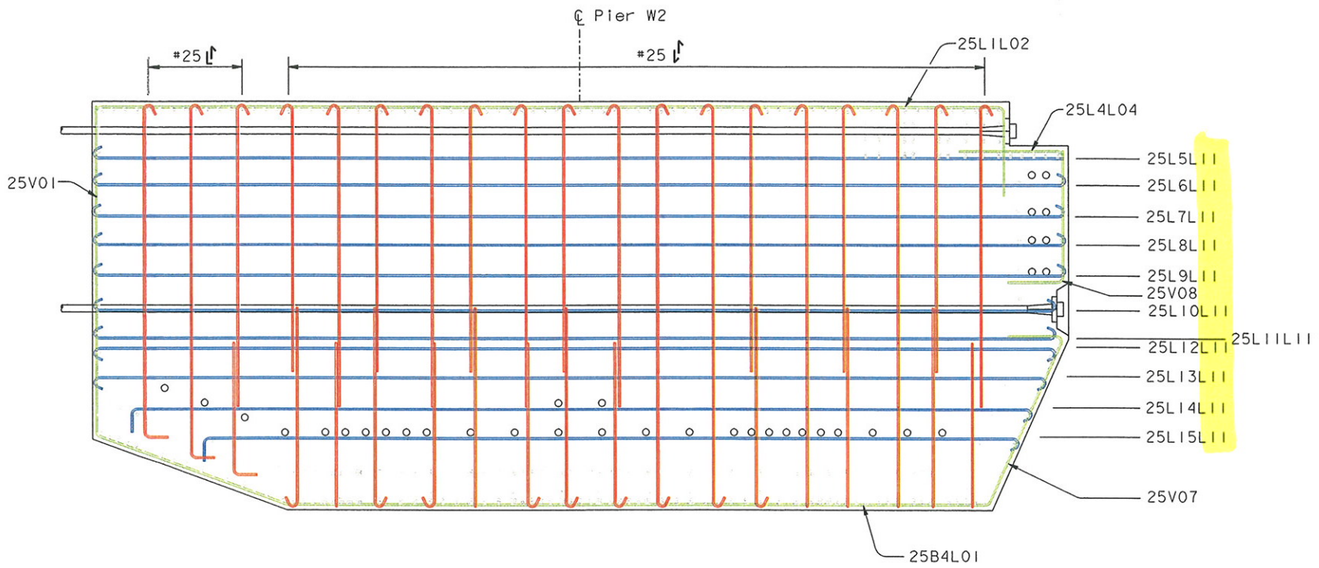

SECTION D-D
1:50

SECTION E-E
1:50

NOTES:

1. For Top Slab Stirrup Plan, see "W2 Cap Beam Reinforcement Details No.8" sheet.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S18	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL
07-21-06
PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER — James P.Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 42

R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

CU 04
EA 0120F1

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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07/21/06									080S18	

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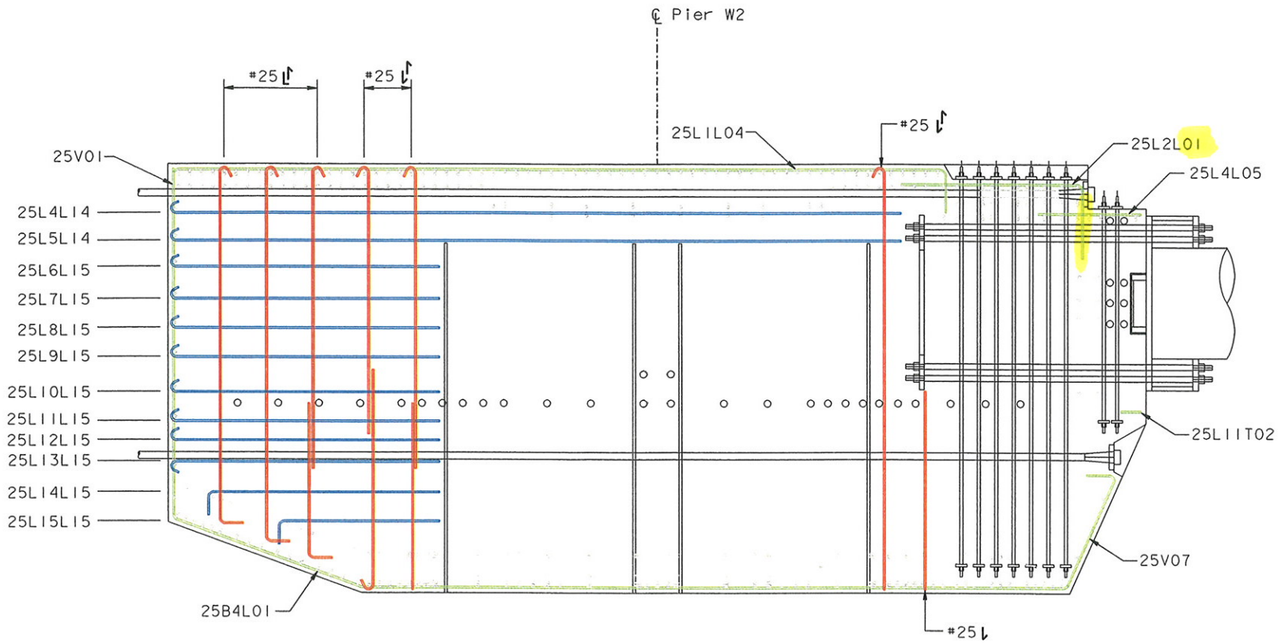
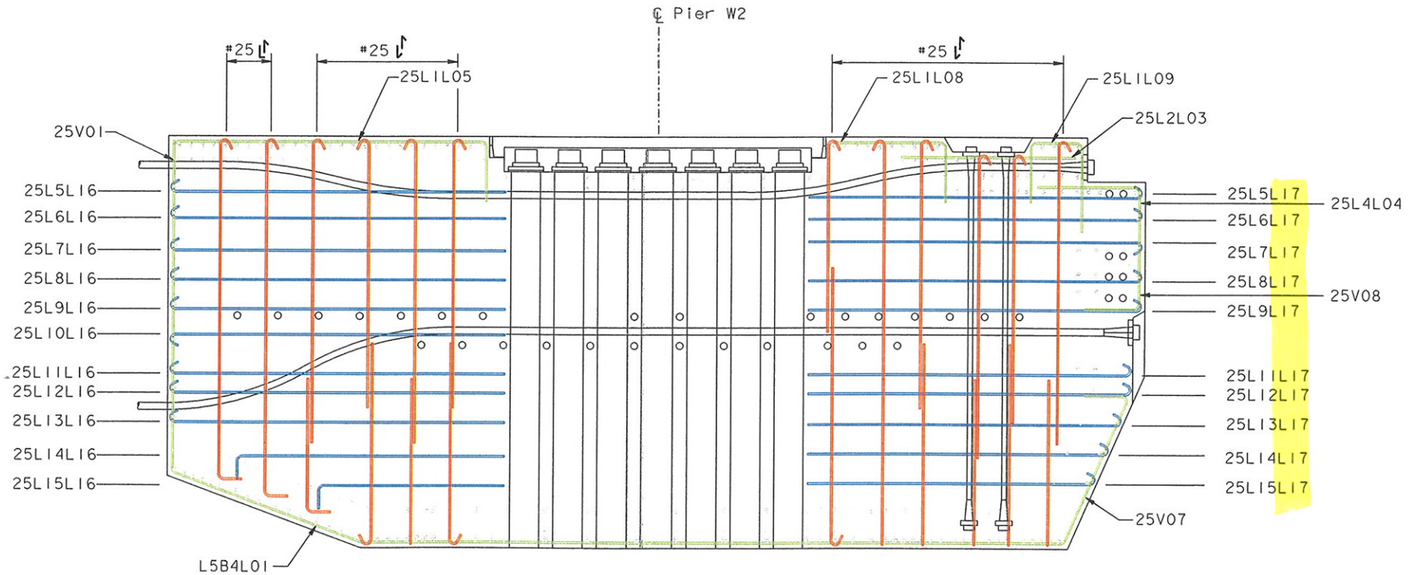


SECTION F-F
1:50



SECTION G-G
1:50

NOTES:

1. For Top Slab Stirrup Plan, see "W2 Cap Beam Reinforcement Details No.8" sheet.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S19	1204

REGISTERED ENGINEER - CIVIL
07-21-06
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R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 43

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): 01/21/06

SHEET 080S19 OF

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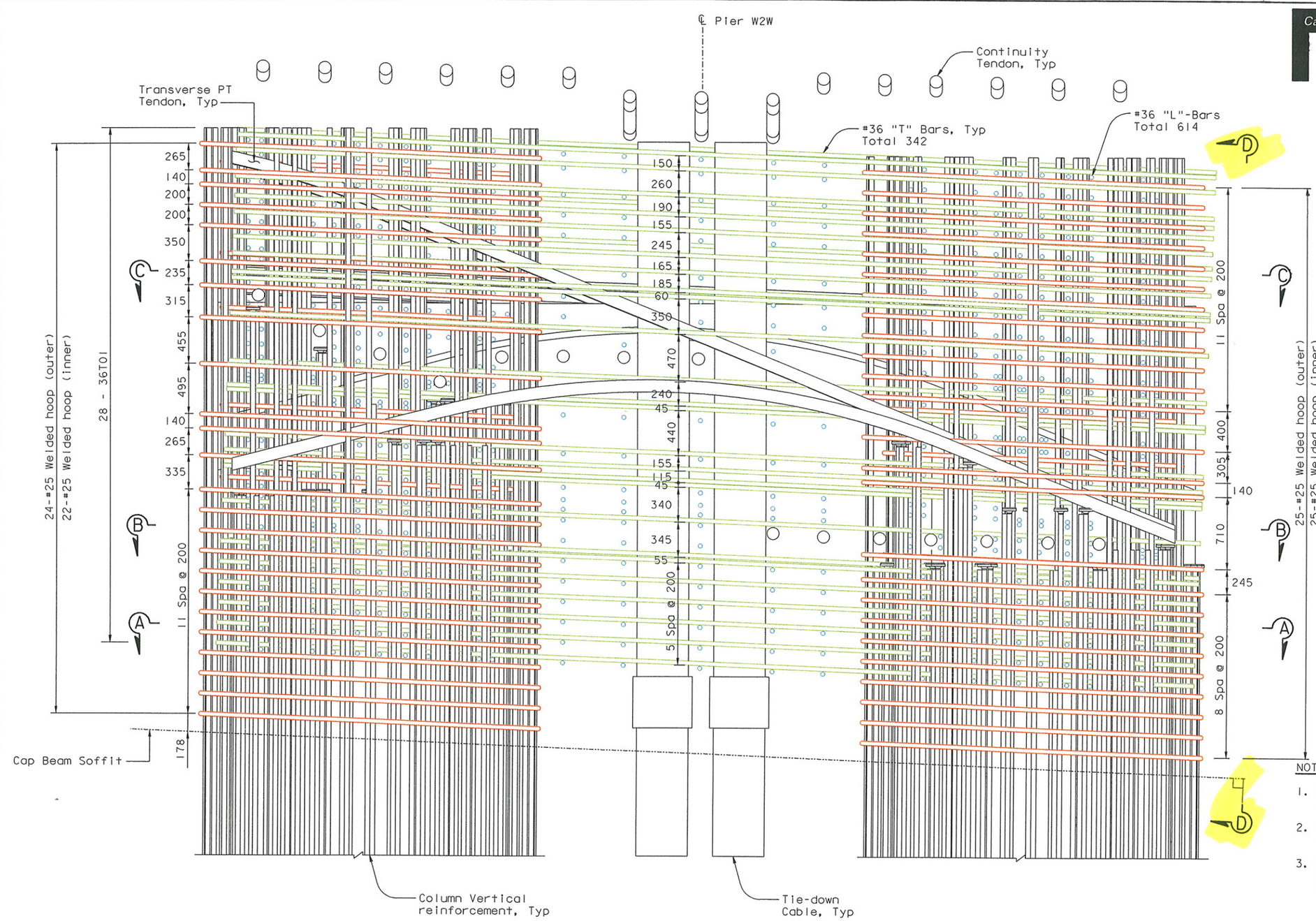
USERNAME => vignatovs



COLUMN REGION REINFORCEMENT (NORTH ELEVATION)

(Looking East)
1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTES:

1. For Section A-A thru C-C, see "W2 Cap Beam Reinforcement Details No. 46" sheet.
2. For Elevation D-D, see "W2 Cap Beam Reinforcement Details No. 47" sheet.
3. Column vertical reinforcement shall be cut to avoid PT ducts. Maximum clerance distance between top of bar and PT duct is 200.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

100 % PS&E

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S20	1204

REGISTERED ENGINEER - CIVIL
07-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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R. Valizadeh/V. Toan/Y.L./W.L./F.C. DESIGN OVERSIGHT	DESIGN	J. Duxbury	A. Sanjines
SIGN OFF DATE 07/21/06	DETAILS	J. Duxbury	A. Sanjines
Rev. Date: 5-18-98	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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 44

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): 07/21/06

SHEET 080S20 OF

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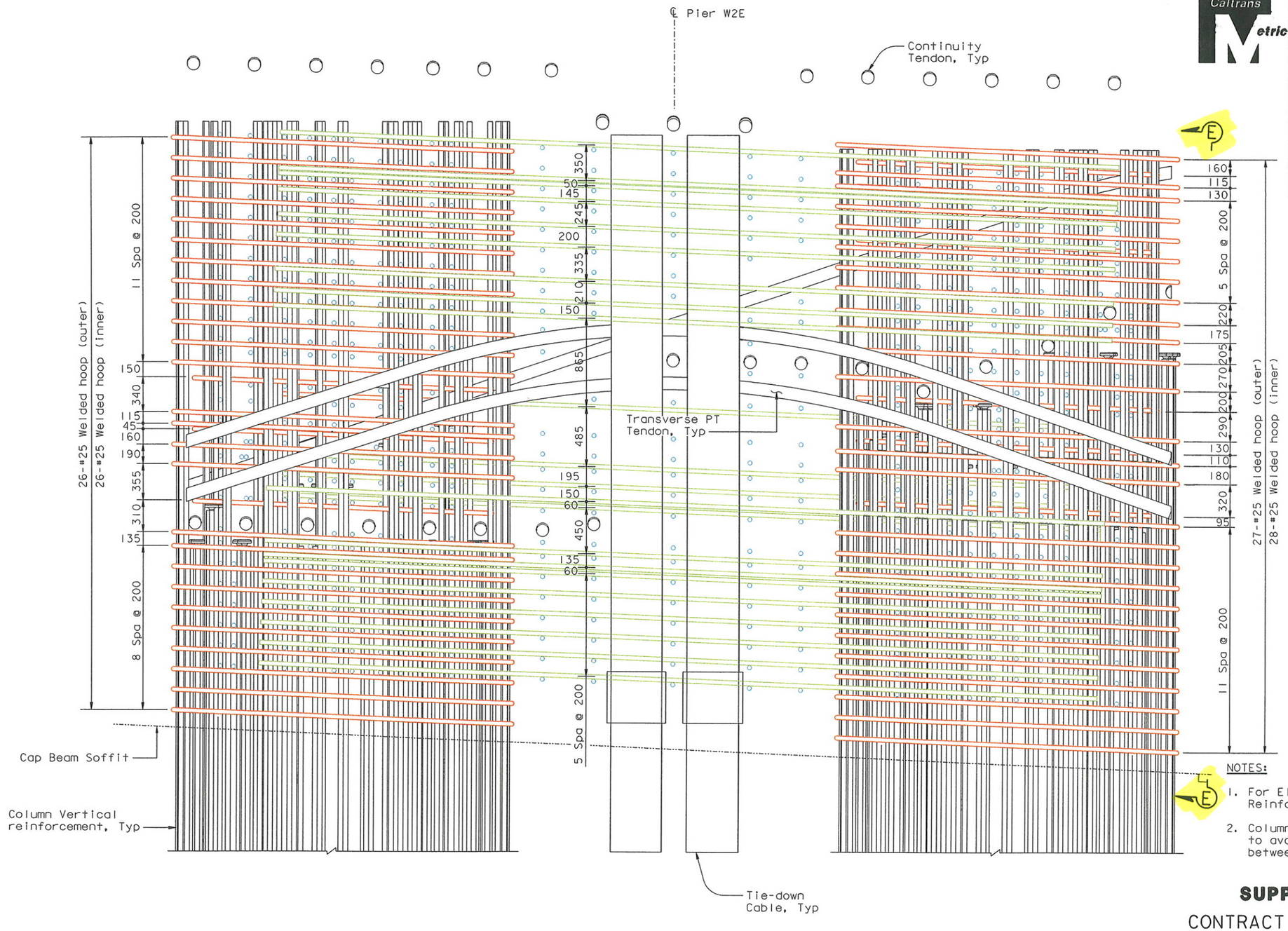

NOTES:

1. For Elevation E-E, see "W2 Cap Beam Reinforcement Details No. 47" sheet.
2. Column vertical reinforcement shall be cut to avoid PT ducts. Maximum clearance distance between top of bar and PT duct is 200.

COLUMN REGION REINFORCEMENT (SOUTH ELEVATION)

(Looking East)
1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S21	1204

REGISTERED ENGINEER - CIVIL
James P. Duxbury, No. C 64677, Exp. 06/30/07, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA
07-21-06
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R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Ryan Valiz /V. Toan/ Y. Liu
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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)
W2 CAP BEAM REINFORCEMENT DETAILS NO. 45

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
07/21/06										080S21	

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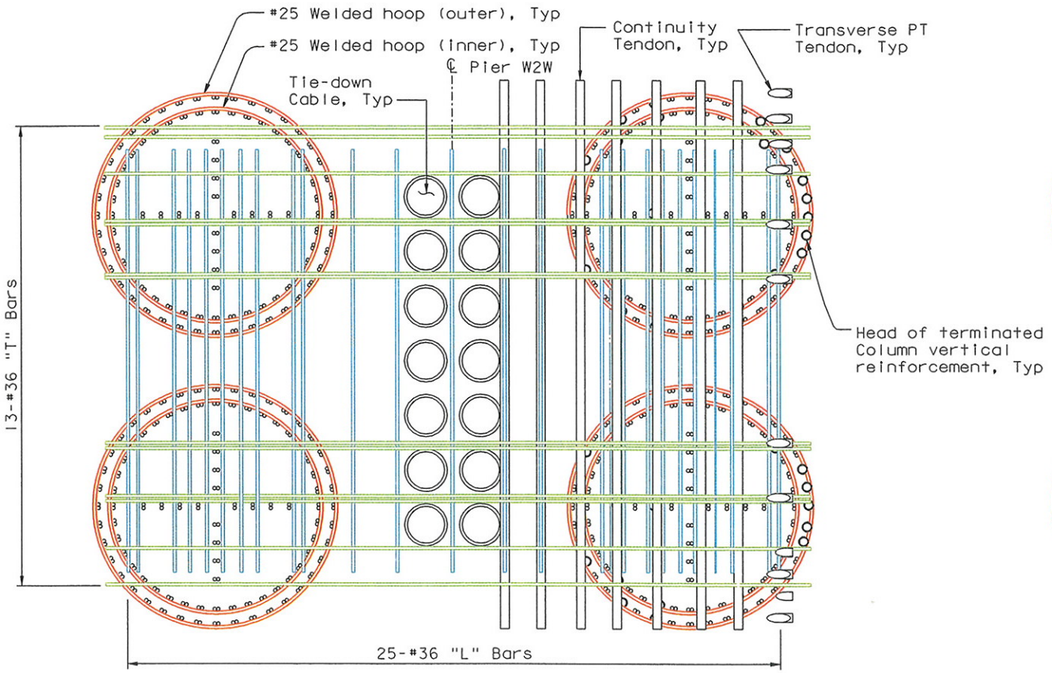
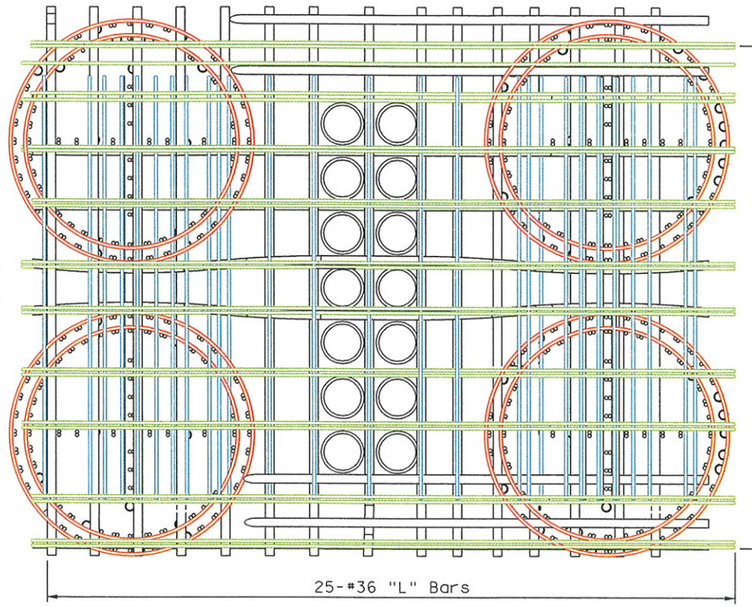


SECTION B-B



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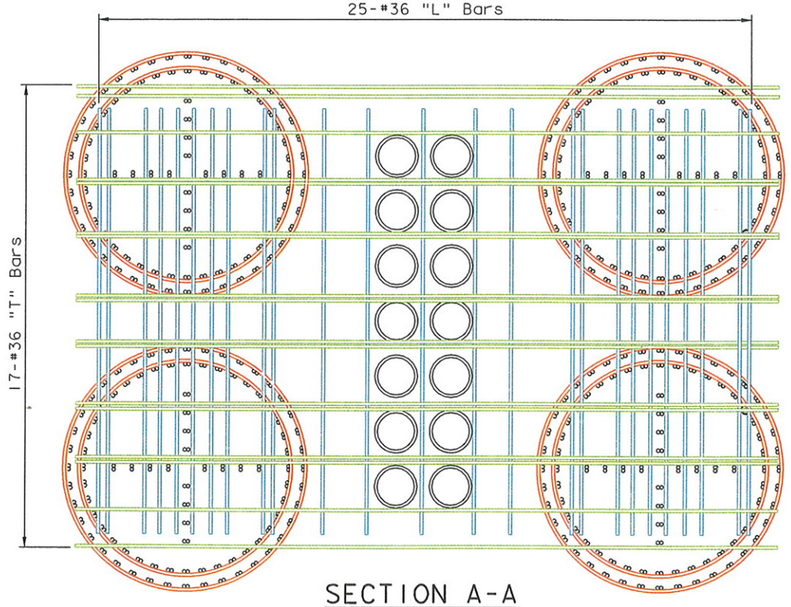

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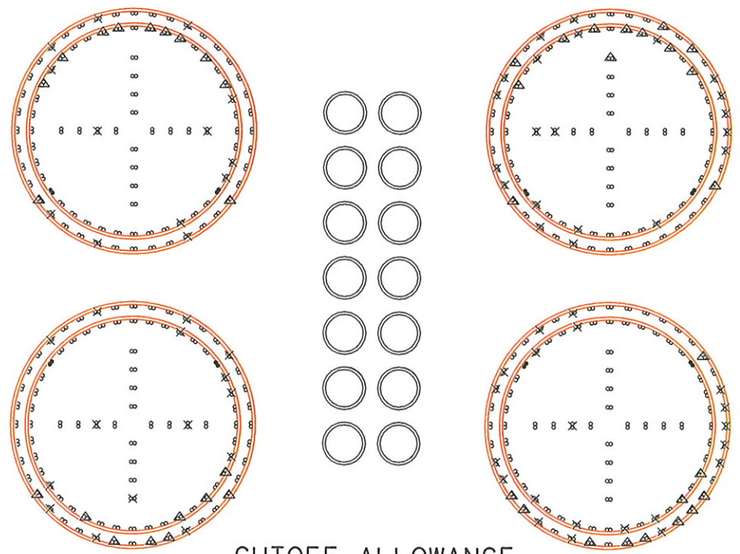

CUTOFF ALLOWANCE

COLUMN REGION REINFORCEMENT
(North Side Shown, South Side Similar)
1:40

LEGEND:

- ∞ #43 bundled bar
- ⊸ Indicates #43 column reinforcement may be field cut below #43 Transverse cap beam reinforcement
- ⋇ Indicates #43 column reinforcement may be field cut below cap beam longitudinal PT duct
- △ Indicates #43 column reinforcement may be field cut below cap beam transverse PTduct
- O Head of terminated column vertical reinforcement

NOTES:

1. Not all reinforcement shown for clarity.
2. Adjust reinforcement as required to clear column reinforcement.
3. Contractor may field cut existing column reinforcement identified in the cutoff allowance for column reinforcement detail.
4. Field cut #43 column reinforcement shall be fitted with field-installed round headed anchors, except as noted.
5. Prior to cutting any column reinforcement, the Contractor is required to submit locations and number of bars to be field cut for Engineer's review and approval.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

100 % PS&E

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S22	1204

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REGISTERED ENGINEER - CIVIL

07-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James P.Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 46

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Roza Valizadeh / V. Toan / Y. Liu
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

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) 07/21/06

SHEET 080S22 OF

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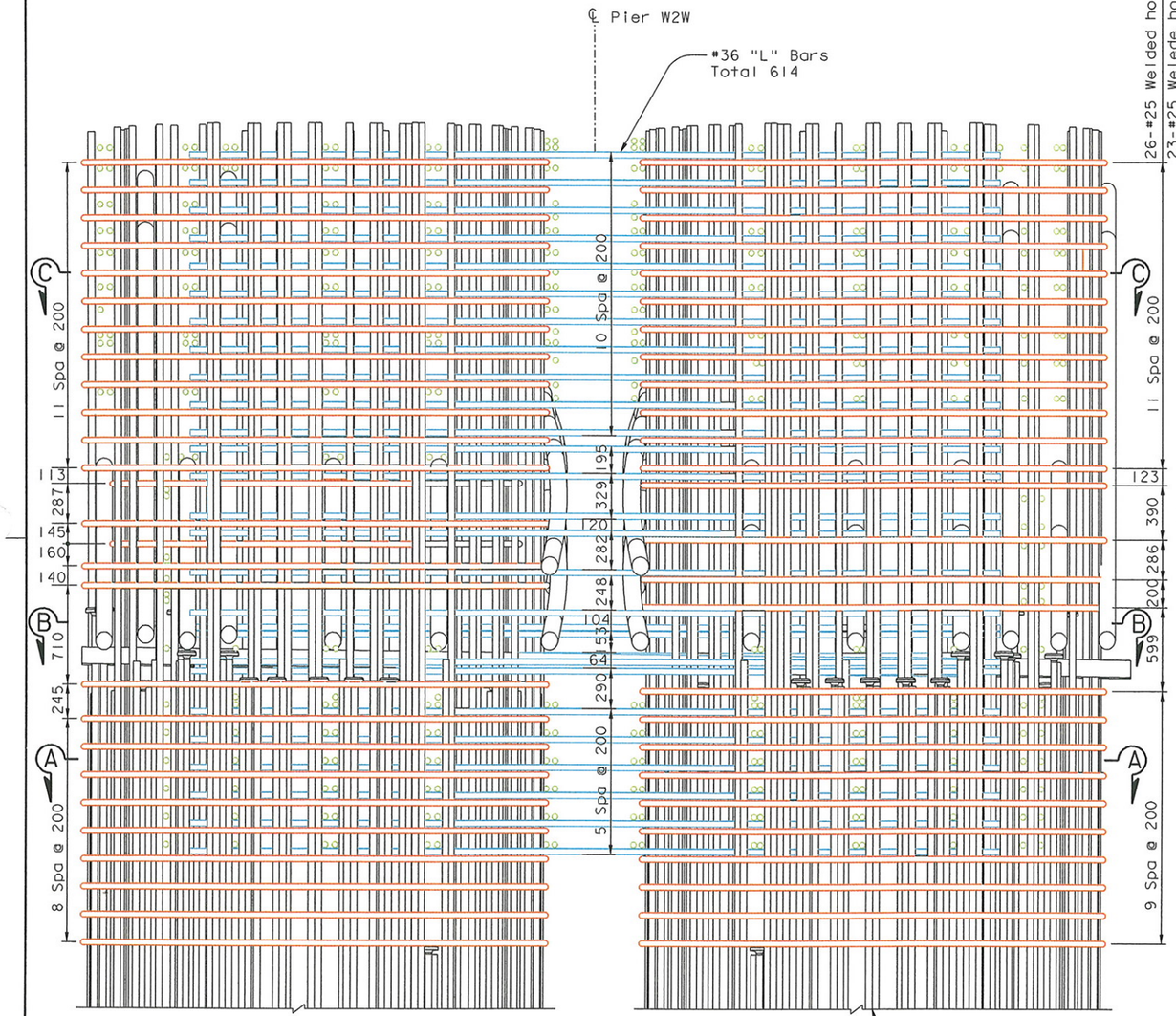
USERNAME => vignatovsk DATE PLOTTED => 14 JUL 2006 TIME PLOTTED => 09:00:35

NOTES:

1. For Section A-A thru C-C, see "W2 Cap Beam Reinforcement Details No. 46" sheet.
2. Tie-down cables not shown for clarity.



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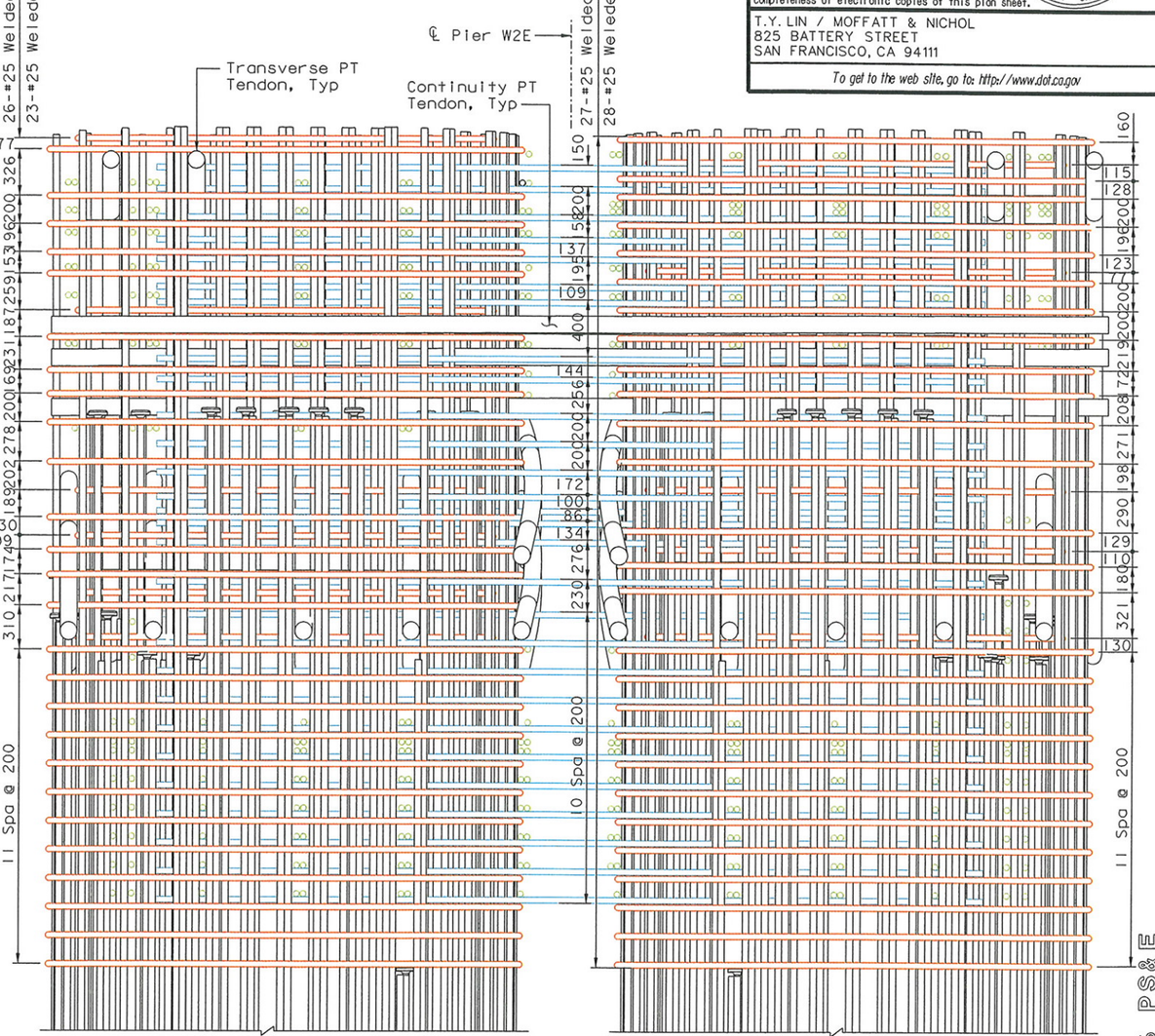

SECTION E-E

Column vertical reinforcement, Typ

COLUMN REGION REINFORCEMENT

(Looking North)

1:20

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Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S23	1204

REGISTERED ENGINEER - CIVIL

James P. Duxbury, No. C 64677, Exp. 06/30/07, CIVIL, STATE OF CALIFORNIA

07-21-06

PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94111

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SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____

SHEET ___ OF ___

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DATE PLOTTED => 21 JUL 2006

USERNAME => vignatovs

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.	DESIGN	BY J. Duxbury	CHECKED A. Sanjines
DESIGN OVERSIGHT	DETAILS	BY J. Duxbury	CHECKED A. Sanjines
SIGN OFF DATE 07/21/06	QUANTITIES	BY N. Vo	CHECKED 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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 47

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) 07/21/06

SHEET 080S23 OF

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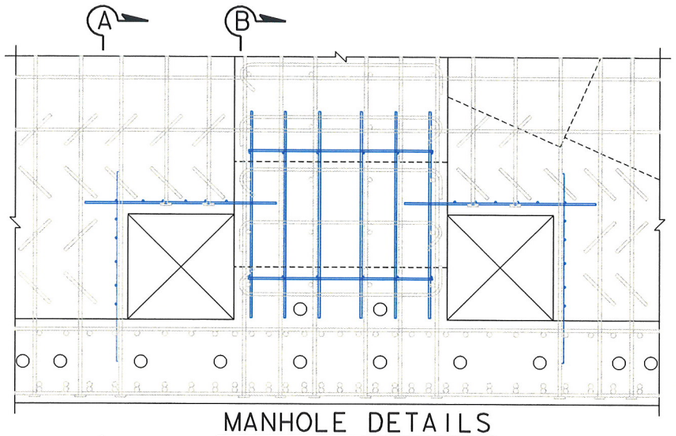
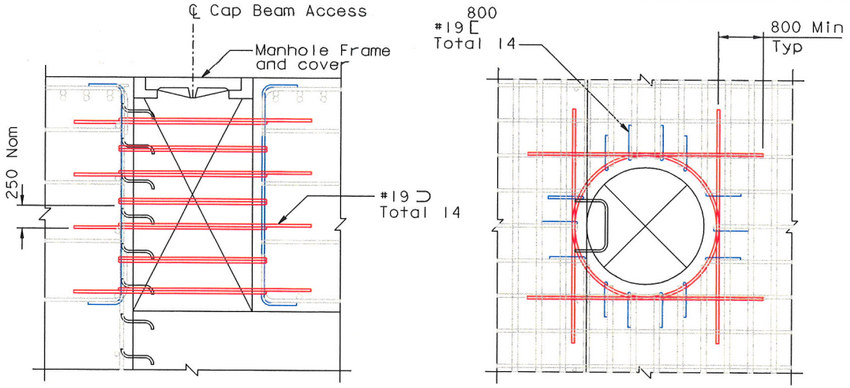
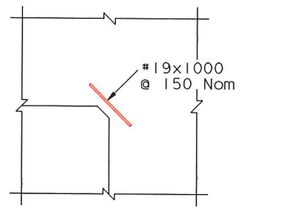


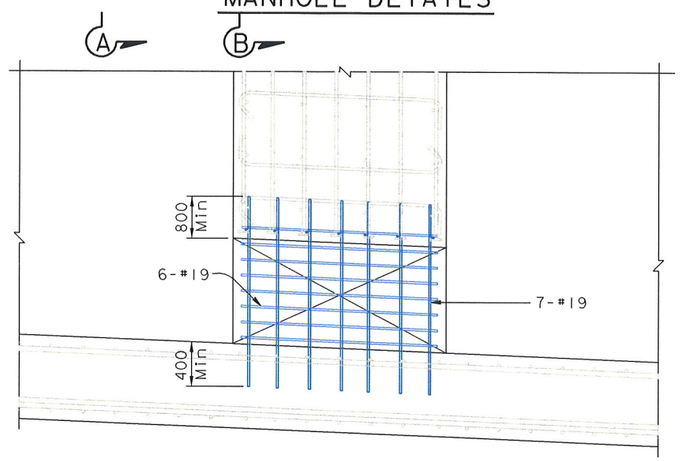
MANHOLE DETAILS



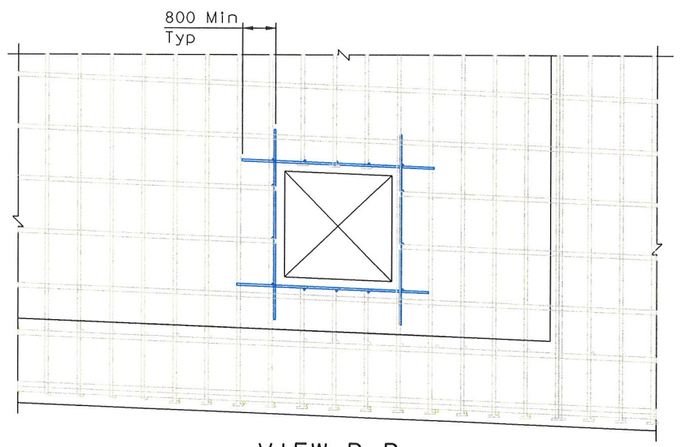
MANHOLE DETAILS



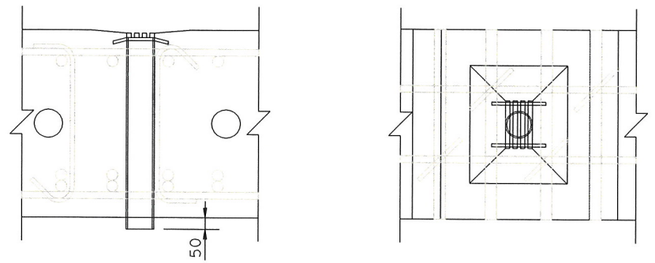
CORNER BAR DETAIL
(Upper cap beam void region)



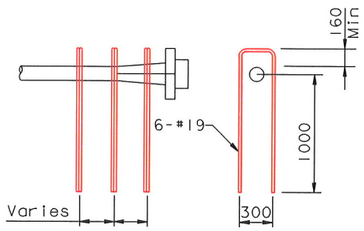
VIEW A-A



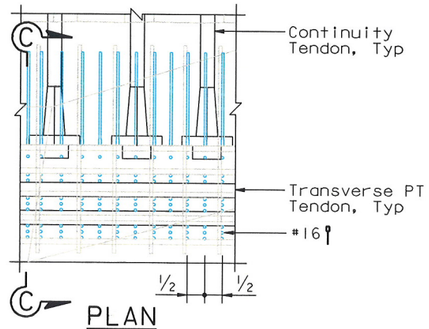
VIEW B-B



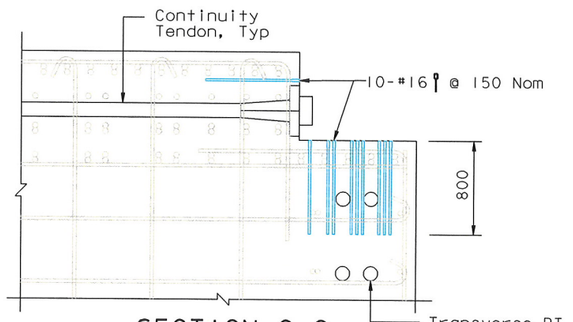
DRAIN DETAIL



PT HAIR PIN DETAIL



PLAN



SECTION C-C

JOINT REINFORCEMENT DETAILS

NOTES:

1. Manhole frame and cover shall be cast iron. Complete assembly shall be galvanized after fabrication. Cover shall be supplied with bolt down or locking devices.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S24	1204

REGISTERED ENGINEER - CIVIL
07-21-06
PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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

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

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 48

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
07/21/06										080S24	

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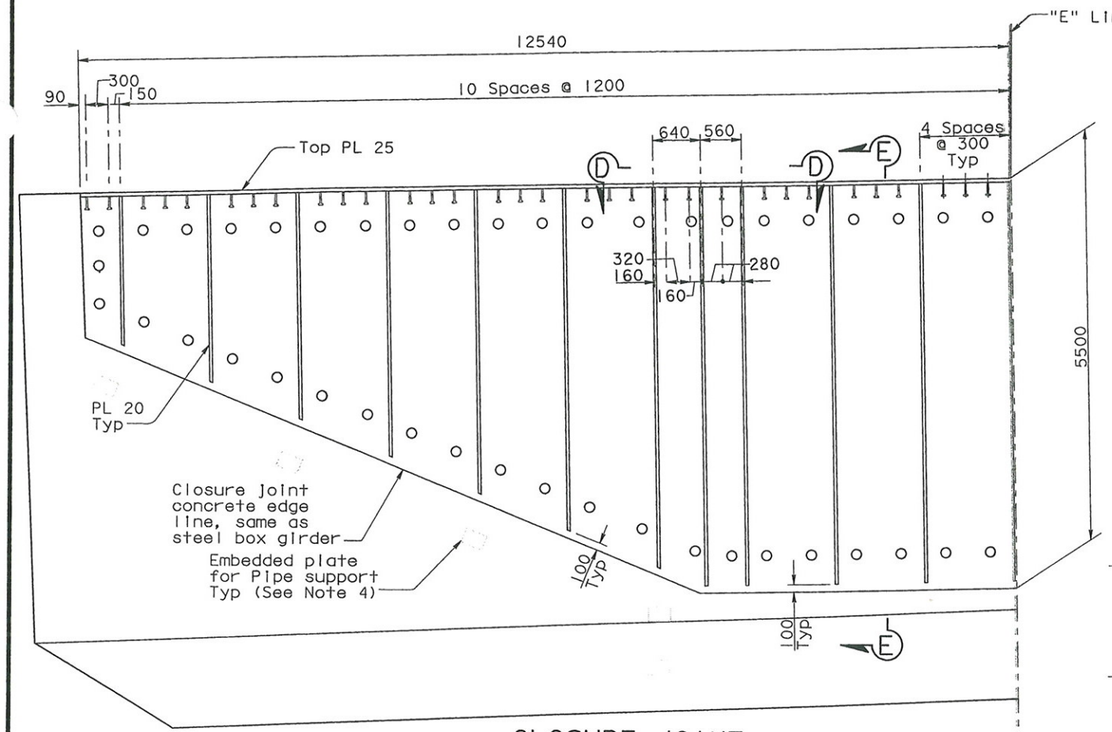
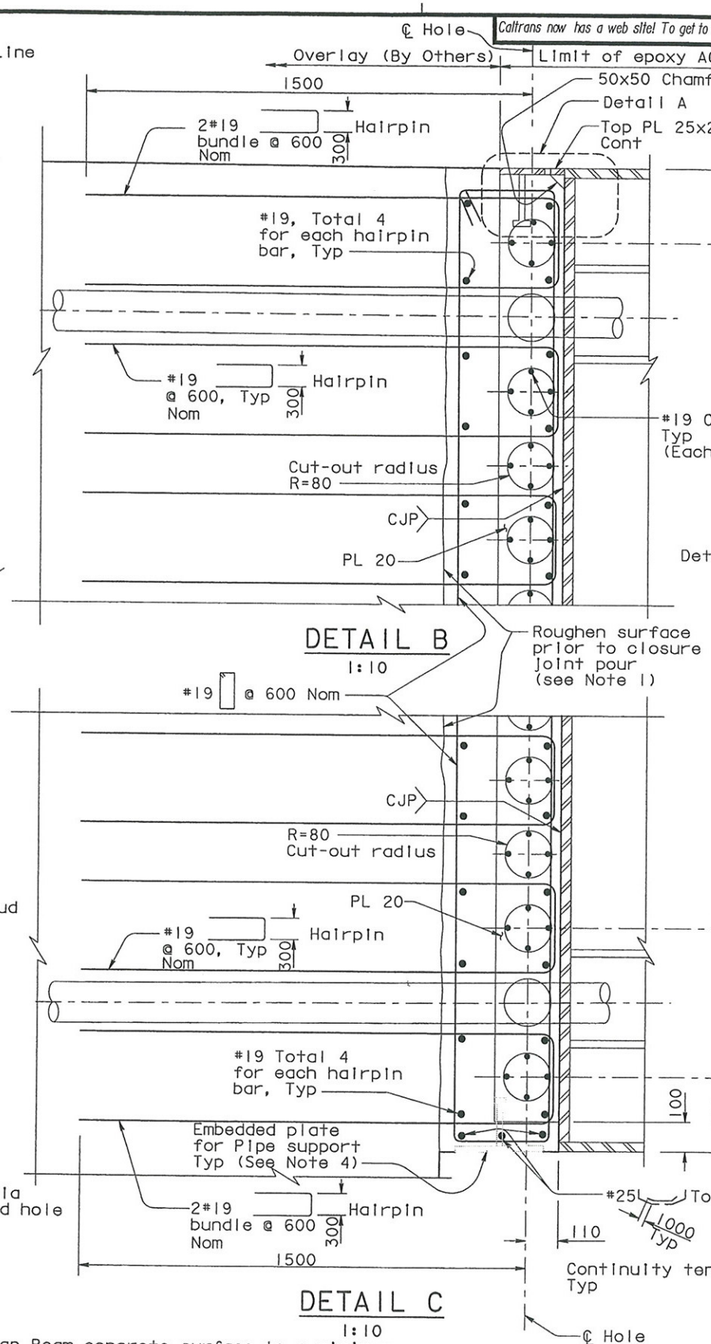
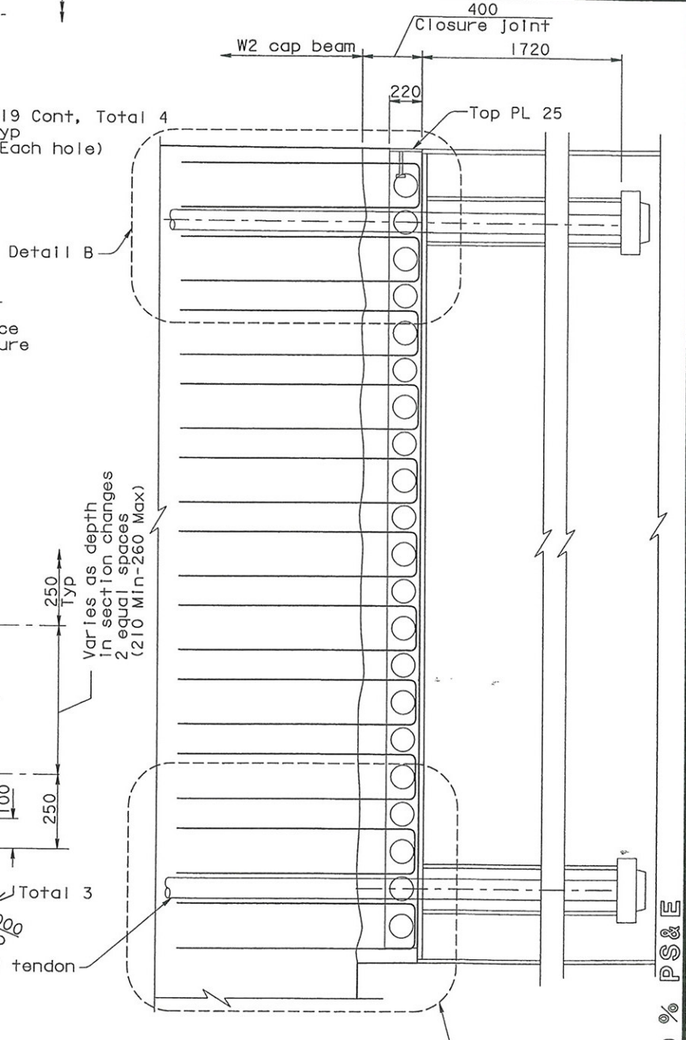


CLOSURE JOINT

(Closure joint reinforcement not shown for clarity)
1:40





SECTION E-E

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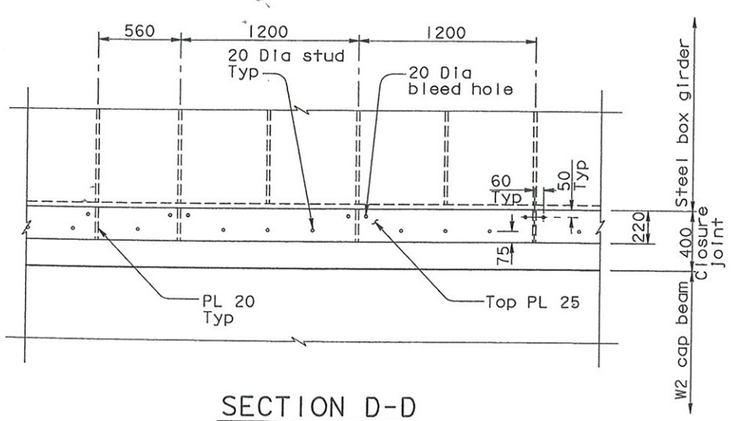

SECTION D-D

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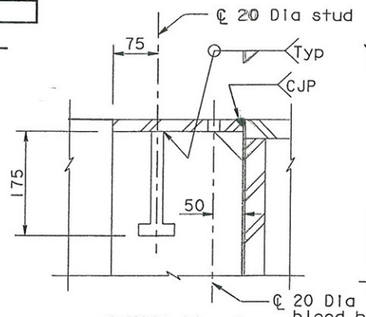

DETAIL A

1:5

NOTES:

1. Roughen the existing W2 Cap Beam concrete surface to a minimum of 5 mm amplitude prior to pouring the closure joint.
2. Reinforcement spacing shall be adjusted to avoid PT ducts if required.
3. All plate shall be ASTM A709M HPS 485W, unless specified otherwise.
4. For pipe support locations and details, see "Road Plans".

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

MARK	DATE	REVISIONS DESCRIPTIONS	BY	CH'D
1	07/21/06	GENERAL REVISIONS	JD	AS

FOR REVISIONS ONLY

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S25	1204

REGISTERED ENGINEER - CIVIL
12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — John Sun, No. C 54648, Exp. 12/31/05, CIVIL, STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94111

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury, No. C 64677, Exp. 06/30/07, CIVIL, STATE OF CALIFORNIA

DESIGN	BY J. Sun	CHECKED M. Chen
DETAILS	BY J. Duxbury	CHECKED M. Chen
QUANTITIES	BY S. Shi	CHECKED D. Harrison

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 49

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): 07/21/06

SHEET 080S25 OF

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TIME PLOTTED => 09:09:44

DATE PLOTTED => 14 JUL 2006

USERNAME => vlghatrovs

ITEM: LAYER 1 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
58R1		25L1L01	L3	Top Skin	53
58R1		25L1L02	L3	Top Skin	76
58R1		25L1L03	L4	Top Skin	12
58R1		25L1L04	L4	Top Skin	66
58R1		25L1L05	B11	Top Skin	14
58R1		25L1L06	B11	Top Skin	6
58R1		25L1L07	L4	Top Skin	6
58R1		25L1L08	B3	Top Skin	8
58R1		25L1L09	B11	Top Skin	32
58R1		25L1L10	B11	Top Skin	6

ITEM: LAYER 2 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
					0
					0
					0
					0

ITEM: LAYER 3 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
					0
					0
					0

ITEM: LAYER 4 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
					0
					0
					0
					0
					0

ITEM: LAYER 5 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
61R1		25L5L01	L3	Top Long	84
61R1		25L5L02	L3	Top Long	2
61R1		25L5L03	L3	Top Long	2
61R1		25L5L04	L3	Top Long	2
61R1		25L5L05	L3	Top Long	2
61R1		25L5L06	L3	Top Long	2
61R1		25L5L07	L3	Top Long	2
61R1		29L01	STR	Top Long	6

ITEM: LAYER B1 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
65R1		25B1L01	L12	Bot Long	15
65R1		25B1L02	L13	Bot Long	82

ITEM: LAYER B2 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars

ITEM: LAYER 1 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
58R1	X	43L1T01	L5	Top Trans	68
58R1	X	43L1T02	L5	Top Trans	46
58R1	X	43L1T03	L5	Top Trans	12
58R1	X	43L1T04	L5	Top Trans	24
58R1	X	43L1T05	L5	Top Trans	10
58R1	X	43L1T06	L5	Top Trans	6
58R1	X	43L1T07	L5	Top Trans	24
58R1	X	43L1T08	STR	Top Trans	116
58R1	X	43L1T09	STR	Top Trans	40
58R1	X	43L1T10	STR	Top Trans	18

ITEM: LAYER 2 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
60R1		43L2T01	STR	Top Trans	72
60R1		43L2T02	STR	Top Trans	18
60R1	X	43L2T04	STR	Top Trans	8

ITEM: LAYER 3 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
60R1	X	43L3T01	STR	Top Trans	40
60R1	X	43L3T02	STR	Top Trans	36

ITEM: LAYER 4 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
60R1	X	43L4T01	STR	Top Trans	12
69R1	X	43L4T02	STR	Top Trans	36
60R1	X	43L4T03	STR	Top Trans	8
60R1	X	43L4T04	STR	Top Trans	4
60R1	X	43L4T05	STR	Top Trans	8

ITEM: LAYER 5 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
61R1		43L5T01	STR	Top Trans	29
61R1		43L5T02	STR	Top Trans	64
61R1		43L5T03	STR	Top Trans	1
61R1		43L5T04	STR	Top Trans	1
61R1		43L5T05	STR	Top Trans	1
61R1		43L5T06	STR	Top Trans	2
61R1		43L5T08	STR	Top Trans	2
61R1		43L5T10	STR	Top Trans	2

ITEM: LAYER B1 TRANSVERSE BARS

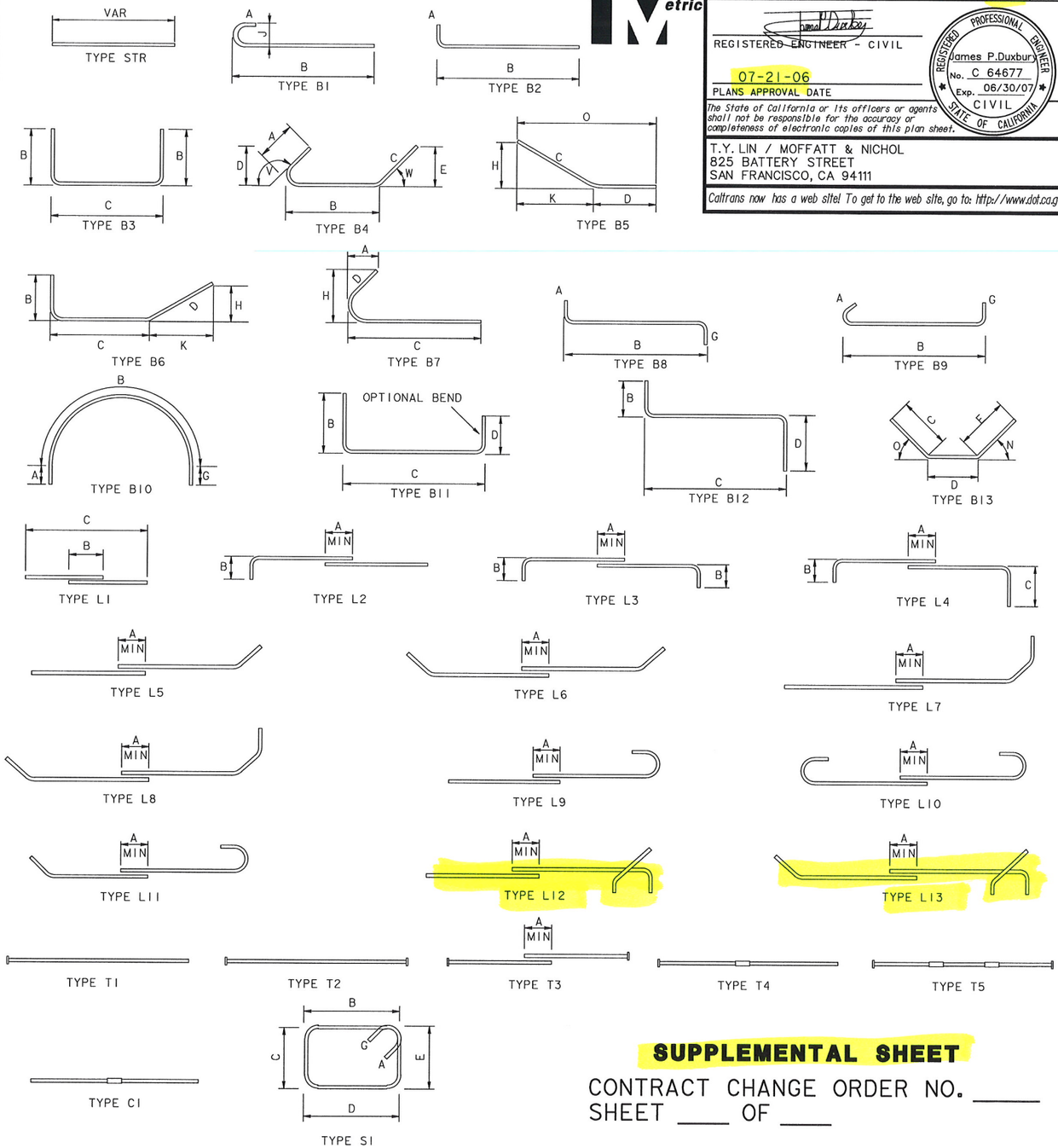
Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
66R1		43B1T01	STR	Bot Trans	25
66R1		43B1T02	STR	Bot Trans	11
66R1		43B1T03	STR	Bot Trans	14
66R1		43B1T04	STR	Bot Trans	16
66R1		43B1T05	STR	Bot Trans	24
66R1		43B1T06	STR	Bot Trans	28
66R1		43B1T07	STR	Bot Trans	40
66R1		43HB1T01	T3	Bot Trans	9
66R1		43HB1T03	T1	Bot Trans	18
66R1		43HB1T04	T2	Bot Trans	8

ITEM: LAYER B2 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
67R1		43B2T01	STR	Bot Trans	28
67R1		43B2T02	STR	Bot Trans	24
67R1		43B2T03	STR	Bot Trans	3

Barlist schedules are provided for general guidance, and shall not be used as a basis for quantity estimation. Barlist schedules shall not be for fabrication purposes. Final weights, length, and geometries shall be the responsibility of the Contractor.

BAR BENDING DIAGRAMS



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	497S26	1204

REGISTERED ENGINEER - CIVIL

07-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER James P. Duxbury No. C 64677 Exp. 06/30/07 CIVIL STATE OF CALIFORNIA

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CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.	DESIGN	BY J. Duxbury	CHECKED A. SanJines
DESIGN OVERSIGHT	DETAILS	BY J. Duxbury	CHECKED A. SanJines
Ryan Vallzadeh / Vong Toan / Y. Lau	QUANTITIES	BY N. Vo	CHECKED J. Duxbury
SIGN OFF DATE 07/21/06			

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 50

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) 07/21/06

SHEET 080S26 OF

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USERNAME => vlgnotovs DATE PLOTTED => 01 AUG 2006 TIME PLOTTED => 13:43:14

ITEM: LAYER B3 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars

ITEM: LAYER B4 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
70R1/80S10		25B4L01	L8	Bot Long	196
70R1		25B4L02	B5	Bot Long	22
70R1		25B4L03	STR	Bot Long	8
70R1		25B4L04	STR	Bot Long	8
70R1		25B4L05	B5	Bot Long	22
70R1/80S10		25B4L06	L7	Bot Long	15

ITEM: WEST FACE LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80S10		25L2L01	B2	West Face	48
80S10		25L2L02	B2	West Face	8
80S10		25L2L03	STR	West Face	32
80S10		25L4L02	B2	West Face	12
80S10		25L4L03	B3	West Face	36
80S10		25L4L04	B2	West Face	60
80S10		25L4L05	STR	West Face	48
80S10		25V02	STR	West Face	73
80S10		25V03	B4	West Face	15
80S10		25V04	B4	West Face	97
80S10		25V05	STR	West Face	42
80S10		25V06	B6	West Face	36
80S10		25V07	B4	West Face	82
80S10		25V08	B4	West Face	60

ITEM: EAST FACE OUTER LAYER LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80S11		25V01	STR	East Face	227

ITEM: LAYER B3 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
68R1		43B3T01	STR	Bot Trans	28
68R1		43B3T02	STR	Bot Trans	5

ITEM: LAYER B4 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
69R1	X	43B4T01	STR	Bot Trans	70
69R1	X	43B4T02	STR	Bot Trans	44
69R1	X	43B4T03	STR	Bot Trans	28
69R1		43B4T04	STR	Bot Trans	2
69R1	X	43B4T05	STR	Bot Trans	40
69R1	X	43B4T06	STR	Bot Trans	56
69R1	X	43B4T07	STR	Bot Trans	80
69R1	X	43HB4T01	T3	Bot Trans	18
69R1	X	43HB4T03	T1	Bot Trans	36
69R1	X	43HB4T04	T2	Bot Trans	16

ITEM: WEST FACE TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
75R1		36L2T01	STR	West Face	1
75R1		36L4T01	STR	West Face	1
75R1		25L5T02	B2	West Face	1
75R1		25L5T03	B2	West Face	1
75R1		36L5T04	STR	West Face	1
75R1		25L6T01	B2	West Face	1
75R1		25L6T02	B2	West Face	1
75R1		25L6T03	B2	West Face	1
75R1		36L6T04	STR	West Face	1
75R1		25L6T05	B2	West Face	1
75R1		25L6T06	B2	West Face	1
75R1		25L6T07	B2	West Face	1
75R1		25L7T01	B2	West Face	1
75R1		25L7T02	B2	West Face	1
75R1		25L7T03	B2	West Face	1
75R1		36L7T04	STR	West Face	1
75R1		25L7T05	B2	West Face	1
75R1		25L7T06	B2	West Face	1
75R1		25L7T07	B2	West Face	1
75R1		25L8T01	B2	West Face	1
75R1		25L8T02	B2	West Face	1
75R1		25L8T03	B2	West Face	1
75R1		36L8T04	STR	West Face	1
75R1		25L8T05	B2	West Face	1
75R1		25L8T06	B2	West Face	1
75R1		25L8T07	B2	West Face	1
75R1		25L9T02	B2	West Face	1
75R1		25L9T03	B2	West Face	1
75R1		36L9T04	STR	West Face	1
75R1		36L9T05	B2	West Face	1
75R1		36L9T06	B2	West Face	1
75R1		25L10T02	B2	West Face	1
75R1		25L10T03	B2	West Face	1
75R1		36L10T04	STR	West Face	1
75R1		25L10T05	B2	West Face	1
75R1		25L10T06	B2	West Face	1
75R1		25L11T01	B2	West Face	1
75R1		25L11T02	B2	West Face	1
75R1		36L11T03	STR	West Face	1
75R1		25L11T05	B2	West Face	1
75R1		25L11T06	B2	West Face	1
75R1	X	36L12T01	STR	West Face	2
75R1	X	36L12T02	STR	West Face	2
75R1	X	36L13T01	STR	West Face	2
75R1	X	36L13T02	STR	West Face	2
75R1		25L13T03	B2	West Face	1
75R1	X	36L14T01	STR	West Face	2
75R1	X	36L14T02	STR	West Face	2
75R1	X	36L15T01	STR	West Face	2
75R1	X	36L15T02	STR	West Face	2
75R1	X	36L16T01	STR	West Face	2
75R1	X	36L16T02	STR	West Face	2

ITEM: WEST FACE INTERIOR TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
76R1		36L4T21	STR	West Face	1
76R1		36L5T24	STR	West Face	1
76R1	X	36L6T23	STR	West Face	2
76R1	X	36L6T24	STR	West Face	2
76R1/77R1	X	36L6T33	STR	West Face	2
77R1	X	36L6T35	STR	West Face	2
76R1	X	36L7T23	STR	West Face	2
76R1	X	36L7T24	STR	West Face	2
76R1	X	36L7T25	STR	West Face	2
76R1/77R1	X	36L7T33	STR	West Face	2
77R1	X	36L7T35	STR	West Face	2
76R1	X	36L8T23	STR	West Face	2
76R1	X	36L8T24	STR	West Face	2
76R1	X	36L8T25	STR	West Face	2
76R1/77R1	X	36L8T33	STR	West Face	2
77R1	X	36L8T35	STR	West Face	2
76R1		36L9T23	STR	West Face	1
76R1		36L9T24	STR	West Face	1
76R1	X	36L9T25	STR	West Face	2
76R1	X	36L10T23	STR	West Face	2
76R1	X	36L10T24	STR	West Face	2
76R1/77R1	X	36L10T33	STR	West Face	2
77R1	X	36L10T35	STR	West Face	2
76R1		36L11T22	STR	West Face	1
76R1		36L11T23	STR	West Face	1
76R1		36L11T25	STR	West Face	1
76R1		36L12T21	STR	West Face	1
76R1		36L13T21	STR	West Face	1
76R1		36L14T21	STR	West Face	1
76R1		36L15T21	STR	West Face	1
76R1		36L12T22	STR	West Face	1
76R1		36L13T22	STR	West Face	1
76R1		36L14T22	STR	West Face	1
76R1		36L15T22	STR	West Face	1
80S16		25V09	B1	West Face	15
80S17		25V10	L11*	West Face	82

ITEM: EAST FACE INTERIOR TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80R1		36L4T81	STR	East Face	1
80R1		36L5T81	STR	East Face	1
80R1		36L6T81	STR	East Face	1
80R1		36L7T81	STR	East Face	1
80R1		36L8T81	STR	East Face	1
80R1		36L9T81	STR	East Face	1
80R1		36L10T81	STR	East Face	1
80R1		36L11T81	STR	East Face	1
80R1		36L12T81	STR	East Face	1
80R1		36L13T81	STR	East Face	1
80S17		25V11	L9	East Face	90

ITEM: EAST FACE EXTERIOR TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
79R1		36L4T91	STR	East Face	1
79R1		36L5T91	STR	East Face	1
79R1		36L6T91	STR	East Face	1
79R1		36L7T90	STR	East Face	1
79R1		36L7T91	STR	East Face	1
79R1		36L8T90	STR	East Face	1
79R1		36L8T91	STR	East Face	1
79R1		36L8T92	STR	East Face	1
79R1		36L9T90	STR	East Face	1
79R1		36L9T91	STR	East Face	1
79R1		36L9T92	STR	East Face	1
79R1		36L10T91	STR	East Face	1
79R1		36L10T92	STR	East Face	1
79R1		36L11T91	STR	East Face	1
79R1		36L11T92	STR	East Face	1
79R1		36L12T90	STR	East Face	1
79R1		36L12T91	STR	East Face	1
79R1		36L13T90	STR	East Face	1
79R1		36L13T91	STR	East Face	1
79R1		36L13T92	STR	East Face	1
79R1		36L14T91	STR	East Face	1

Barlist schedules are provided for general guidance, and shall not be used as a basis for quantity estimation. Barlist schedules shall not be for fabrication purposes. Final weights, length, and geometries shall be the responsibility of the Contractor.

*Bars intersect at an angle. Minimum development beyond.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S27	1204

REGISTERED ENGINEER - CIVIL

07-21-06
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER · REGISTERED · James P.Duxbury · No. C 64677 · Exp. 06/30/07 · CIVIL · STATE OF CALIFORNIA

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SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V.Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06
Rev. Date: 5-18-98

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO.51

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 → 07/21/06
REVISION DATES (PRELIMINARY STAGE ONLY)
SHEET 080S27 OF

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USERNAME => vignatovs DATE PLOTTED => 01 AUG 2006 TIME PLOTTED => 14:04:20

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S28	1204

REGISTERED ENGINEER - CIVIL

07-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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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

ITEM: TRANSVERSE DIAPHRAGM TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80S2/S3		36L4T40	STR	Trans Diaph	2
80S2/S3		36L5T40	STR	Trans Diaph	2
80S2/S3		36L6T40	STR	Trans Diaph	2
80S2/S3		36L7T40	STR	Trans Diaph	4
80S2/S3		36L8T40	STR	Trans Diaph	4
80S2/S3		36L9T40	STR	Trans Diaph	4
80S2/S3		36L10T40	STR	Trans Diaph	4
80S2/S3		36L11T40	STR	Trans Diaph	4
80S2/S3		36L12T40	STR	Trans Diaph	4
80S2/S3		36L13T40	STR	Trans Diaph	8
80S2/S3		36L13T41	STR	Trans Diaph	4
80S2/S3		36L14T40	STR	Trans Diaph	8
80S2/S3		36L14T41	STR	Trans Diaph	4
80S2/S3		36L15T40	STR	Trans Diaph	4
80S2/S3		29HVTD01	T3	Trans Diaph	126
80S2/S3		29HVTD02	T3	Trans Diaph	24
80S2/S3		29HVTD03	T2	Trans Diaph	24
80S2/S3		25VTD01	STR	Trans Diaph	264

ITEM: LONGITUDINAL DIAPHRAGM TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80S4/S05		25L4L20	L10	Long Diaph	4
80S4/80S05		25L5L20	L10	Long Diaph	4
80S4/S05		25L6L20	L10	Long Diaph	4
80S4/S05		25L7L20	L10	Long Diaph	4
80S4/S05		25L8L20	L10	Long Diaph	4
80S4/S05		25L9L20	L10	Long Diaph	4
80S4/S05		25L10L20	L10	Long Diaph	4
80S4/S05		25L11L20	L9	Long Diaph	4
80S4/S05		25L12L20	L9	Long Diaph	4
80S4/S05		25L13L20	L9	Long Diaph	4
80S4/S05		25L14L20	STR	Long Diaph	4
80S4/S05		25L14L21	B2	Long Diaph	4
80S4/S05		25L15L20	STR	Long Diaph	4
80S4/S05		25L15L21	B2	Long Diaph	4
80S4/S05		25HVLD01	T2	Long Diaph	44
80S4/S05		29HVLD01	T2	Long Diaph	62
80S4/S05		25HVLD02	T2	Long Diaph	12
80S4/S05		29HVLD02	T1	Long Diaph	28

ITEM: INTERIOR LAYER LONGITUDINAL BARS (LAYERS 5-15)

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80S16-S19		25L4L11	L10	Int Long	44
80S16-S19		25L4L12	B1	Int Long	6
80S16-S19		25L4L13	B1	Int Long	6
80S16-S19		25L4L14	B1	Int Long	116
80S16-S19		25L5L11	L10	Int Long	44
80S16-S19		25L5L12	B1	Int Long	6
80S16-S19		25L5L13	B1	Int Long	6
80S16-S19		25L5L14	B1	Int Long	116
80S16-S19		25L5L15	B1	Int Long	48
80S16-S19		25L5L16	B1	Int Long	12
80S16-S19		25L5L17	B1	Int Long	12
80S16-S19		25L6L11	L10	Int Long	44
80S16-S19		25L6L12	B1	Int Long	6
80S16-S19		25L6L13	B1	Int Long	6
80S16-S19		25L6L14	B1	Int Long	116
80S16-S19		25L6L15	B1	Int Long	48
80S16-S19		25L6L16	B1	Int Long	12
80S16-S19		25L6L17	B1	Int Long	12
80S16-S19		25L7L11	L10	Int Long	44
80S16-S19		25L7L14	B1	Int Long	116
80S16-S19		25L7L15	B1	Int Long	48
80S16-S19		25L7L16	B1	Int Long	12
80S16-S19		25L7L17	B1	Int Long	12
80S16-S19		25L8L11	L10	Int Long	44
80S16-S19		25L8L14	B1	Int Long	116
80S16-S19		25L8L15	B1	Int Long	48
80S16-S19		25L8L16	B1	Int Long	12
80S16-S19		25L8L17	B1	Int Long	12
80S16-S19		25L9L11	B1	Int Long	44
80S16-S19		25L9L14	B1	Int Long	116
80S16-S19		25L9L15	B1	Int Long	48
80S16-S19		25L9L16	B1	Int Long	12
80S16-S19		25L9L17	B1	Int Long	12
80S16-S19		25L10L11	B1	Int Long	44
80S16-S19		25L10L14	B1	Int Long	116
80S16-S19		25L10L15	B1	Int Long	48
80S16-S19		25L10L16	B1	Int Long	12
80S16-S19		25L10L17	B1	Int Long	12
80S16-S19		25L11L11	B1	Int Long	44
80S16-S19		25L11L14	B1	Int Long	116
80S16-S19		25L11L15	B1	Int Long	48
80S16-S19		25L11L16	B1	Int Long	12
80S16-S19		25L11L17	B1	Int Long	12
80S16-S19		25L12L11	B1	Int Long	44
80S16-S19		25L12L14	B1	Int Long	116
80S16-S19		25L12L15	B1	Int Long	48
80S16-S19		25L12L16	B1	Int Long	12
80S16-S19		25L12L17	B1	Int Long	12
80S16-S19		25L13L11	B1	Int Long	44
80S16-S19		25L13L14	B1	Int Long	116
80S16-S19		25L13L15	B1	Int Long	48
80S16-S19		25L13L16	B1	Int Long	12
80S16-S19		25L13L17	B1	Int Long	12
80S16-S19		25L14L11	L11	Int Long	44
80S16-S19		25L14L14	B2	Int Long	116
80S16-S19		25L14L15	B2	Int Long	48
80S16-S19		25L14L16	B2	Int Long	12
80S16-S19		25L14L17	B2	Int Long	12
80S16-S19		25L15L11	L11	Int Long	44
80S16-S19		25L15L14	B2	Int Long	116
80S16-S19		25L15L15	B2	Int Long	48
80S16-S19		25L14L16	B2	Int Long	12
80S16-S19		25L14L17	B2	Int Long	12

ITEM: LONGITUDINAL DIAPHRAGM AT JACKING FRAME

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80S6		25JS01	B3	Jacking Frame	18
80S6		25JS02	B3	Jacking Frame	9
80S6		29HV01	T1	Jacking Frame	36
80S6		29HV02	T2	Jacking Frame	36
80S7		29HV03	T2	Jacking Frame	60
80S7		29HV04	T2	Jacking Frame	16
80S7		29HV05	T2	Jacking Frame	36
80S7		29HV06	T2	Jacking Frame	36
80S7		29HV07	T2	Jacking Frame	48
80S7		29HV08	T2	Jacking Frame	36
80S6		25HT01	T2	Jacking Frame	45
80S6		29HT01	T2	Jacking Frame	42
80S6		29HT02	T5	Jacking Frame	77
80S6		29HT03	T2	Jacking Frame	22
80S6		29JL01	T4	Jacking Frame	8
80S6		29JL02	T4	Jacking Frame	8
80S6		29JL03	T4	Jacking Frame	8
80S6		29JL04	T4	Jacking Frame	8
80S6		29JL05	T4	Jacking Frame	8
80S6		25JS03	S1	Jacking Frame	22
80S6		25JS04	B9	Jacking Frame	44

Barlist schedules are provided for general guidance, and shall not be used as a basis for quantity estimation. Barlist schedules shall not be for fabrication purposes. Final weights, length, and geometries shall be the responsibility of the Contractor.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 07/21/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

CU 04
EA 0120F1

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 52

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) 07/21/06

SHEET 080S28 OF

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