DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	474R1	1204

Caltrans Metric

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

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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825 BATTERY STREET
SAN FRANCISCO, CA 94111

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

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 — 150 Max
   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.

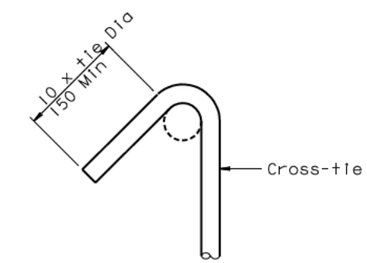
BARLIST SCHEDULES:

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:

2 x 6 - 43L4T01*

- # OF BARS IN BUNDLE
- BAR COUNT
- BAR DIAMETER
- LAYER/REGION ("H" denotes headed bar)
- TRANS OR LONGIT
- DENOTES HORIZONTAL/ VERTICAL BUNDLE
- BAR ID



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

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

FOR REVISIONS ONLY

Original Sheet Superseded

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	07/21/06	W2 CAP BEAM ISD	JD	AS	23

REVISIONS

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. 1

R. Valizadeh/V. Togan/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) 03/26/99 05/27/01 04/26/02 07/26/02 12/19/02

SHEET 057R1 OF

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