DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	1007R3	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Marwan N. Nader — No. C 054426 — Exp. 12/31/13 — CIVIL — STATE OF CALIFORNIA

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

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A. Traveler General Notes:

A1. The following notes apply only to the five Maintenance Travelers. The notes do not apply to any other portion of the work.

A2. Abbreviations used in these drawings:

c/w ---- complete with	Nom ---- nominal
Ext ---- exterior	OF ----- outside face
Int ---- interior	Ref ---- reference
IF ----- inside face	Stiff -- stiffener
I/I ---- inside face to inside face	UNO ---- unless noted otherwise
Max ---- maximum	u/s ---- under side
Min ---- minimum or minutes	WP ----- workpoint

A3. Fabricator is to co-ordinate all dimensions with the permanent structure and is to detail to ensure proper fit, clearances and functionality.

A4. Fabricator to weigh each completed traveler before it is installed on the bridge.

A5. Component weights shown are anticipated lifting weights for the various components. Fabricator to verify all weights.

A6. All material except items made of stainless steel are to receive paint as per specifications, unless otherwise noted on the drawings or in the specifications. Do not paint stainless steel.

A7. Fabricator may propose substitutions to the materials and details shown. All revisions and/or substitutions are subject to approval by the Engineer.

A8. Representatives of the Owner, or his designates, may make periodic visits to the fabricator's shop during the course of fabrication to review the work for general conformance to the design intent. Quality control will remain the responsibility of the fabricator notwithstanding these periodic inspections.

A9. The fabricator's welding engineer is to be available to review and discuss the welding requirements for the significant structural welds in these structures.

B. Traveler Design Notes:

B1. Platform is designed in accordance with Caltran's "Design and Inspection Requirements for Traveling Scaffolds". Revised May 1991.

B2. Design live load:

Any Area < 30 m^2 - 1.2 kPa UDL
Areas > 30 m^2 - 0.72 kPa UDL

Plus • 1.10 kN on 300x300 footprint, or
• 4.40 kN moving concentrated load

Live load allowance includes the weight of 2 - 55 gallon drums of material having a density of 15 kN/m^3

B3. Total allowable live load on the platform is shown on each specific platform assembly drawing.

B4. Platforms are designed for 0.72 kPa wind load on the projected surface of the containment membrane. (Sum of pressure force plus suction force).

B5. Whenever platform is used with full containment membrane, the membrane is to be fastened such that it will break away from its attachments at a wind pressure not to exceed 0.72 kPa (15 psf).

B6. No additional weight or load allowance has been made for accumulation of sandblasting sand or other materials on the platform.

C. Traveler Materials Notes:

C1. Pipe and Mechanical Tube
a) All pipe sections to be ASTM A53B or approved alternate, Fy=240 MPa minimum, unless noted otherwise.
b) Mechanical tube to be of material & grade as noted on the specific drawings. Fabricator may propose substitutions.

C2. Rolled Sections
a) TS and structural tube sections to be ASTM A500 grade C, with Fy=345 MPa for shaped sections & Fy=317 MPa for round sections, unless noted otherwise.
b) Angles and channels to be ASTM A572 Grade 42 (Fy=285 MPa), unless noted otherwise.
c) All other rolled sections to be ASTM A572 Grade 50 (Fy=345 MPa), unless noted otherwise.
d) Traveler rail sections to be ASTM A572 or A709 Grade 50 (Fy = 345 MPa) unless noted otherwise.

C3. Plate
a) All plate to be ASTM A572 or A709 Grade 50, Fy=345 unless noted otherwise.

C4. Screw Parts (Threaded Parts)
a) As noted on the specific drawings. Fabricator is to supply mill certificates, mechanical test results, chemical composition & Charpy test results for material used in any of the screw parts apart from standard bolts. Minimum Charpy value for screw parts is to be 20 Joules at 0°c. Minimum elongation at rupture in 51 mm gage to be 15%.

C5. Pins
a) Material to be as noted on the drawings.
b) The fabricator is to provide mill certificates for the materials used in the fabrication of all pins.

C6. Bolts
a) All bolts to be ASTM grade A325, unless noted otherwise.
b) Fabricator is to supply a nut and one hardened washer with each bolt unless noted otherwise.
c) All bolts, nuts, & washers are to be galvanized.
d) All bolts shall be imperial (inch)size. These are designated as follows:
- 16 Dia = 5/8 inch - 25 Dia = 1 inch
- 19 Dia = 3/4 inch - 28.5 Dia = 1 1/8 inch
- 22 Dia = 7/8 inch - 38 Dia = 1 1/2 inch

C7. Nylon parts to be Nylon 101, unfilled, Type 66 Nylon, see specifications.

C8. All plywood to be Marine plywood, to be 19 mm thick, and conform to NIST Voluntary Product Standard PS-1 for Marine Special Exterior Grade A-B, unless otherwise noted. An alternate decking material may be used as directed by the Engineer. For Details, see "Traveler Alternate Decking Details" sheets. Alternate decking material shall not be used on Supplementary Platform. (3)

C9. UHMWPE denotes "ultra high molecular weight polyethylene".

C10. Self tapping screws (#14 size, (typical; #10 at Supplementary Platform) (3)) shall be used to connect plywood deck to steel structure. Spacing shall be 300 mm maximum along edges of plywood and 600 mm maximum along intermediate supports. See specifications. Note - self tapping screws are not permitted to penetrate tube members.

C11. All slotted nuts are to be ANSI Heavy Hex slotted nuts and are to be supplied with stainless steel cotter pins of the diameter called on the drawings.

C12. Shackles, turnbuckless and other rigging hardware are called on these drawings using Crosby part numbers so as to be clear about the specific sizes etc, assumed in sizing and spacing of components. Other material of equal strength is permitted. Contractor to make all adaptations necessary as a result of such substitutions.

C13. Stainless Steel - All stainless steel to be Type 316, annealed condition with Fy= 205 MPa Min.

REVISION (2) SUPERSEDES REVISION (1)

CONTRACT CHANGE ORDER NO. 272
SHEET 3 OF 7

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
(3)	12/14/12	TRAVELER DECKING	MN	JD	272
(2)	08/21/09	TRAVELER MODIFICATIONS	MN	AS	245I
(1)	07/20/07	RAIL CHANGE & MISCELLANEOUS DETAILS	MN	NV	24

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 12/14/12

DESIGN	BY J. Otter	CHECKED M. Nader
DETAILS	BY J. Otter	CHECKED N. Vo
QUANTITIES	BY J. Otter	CHECKED J. Leventini

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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)

TRAVELERS-GENERAL NOTES NO. 1

Rev. Date: 5-18-98

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

CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 04/20/12 | 08/15/12 | 07/20/12 | 12/15/12

SHEET 590R3 OF

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	1142R2	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — Rafael Manzanarez — No. C 36842 — Exp. 6/30/12 — CIVIL — STATE OF CALIFORNIA

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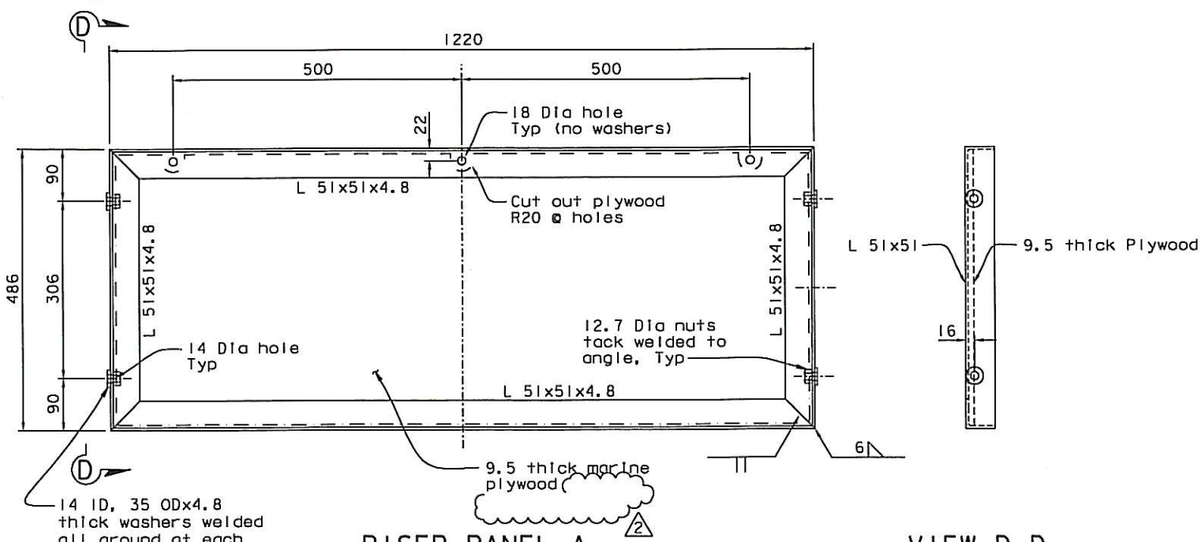
VIEW



RISER PANEL A
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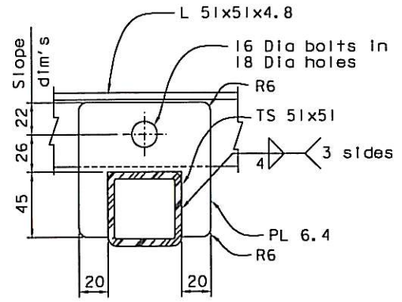
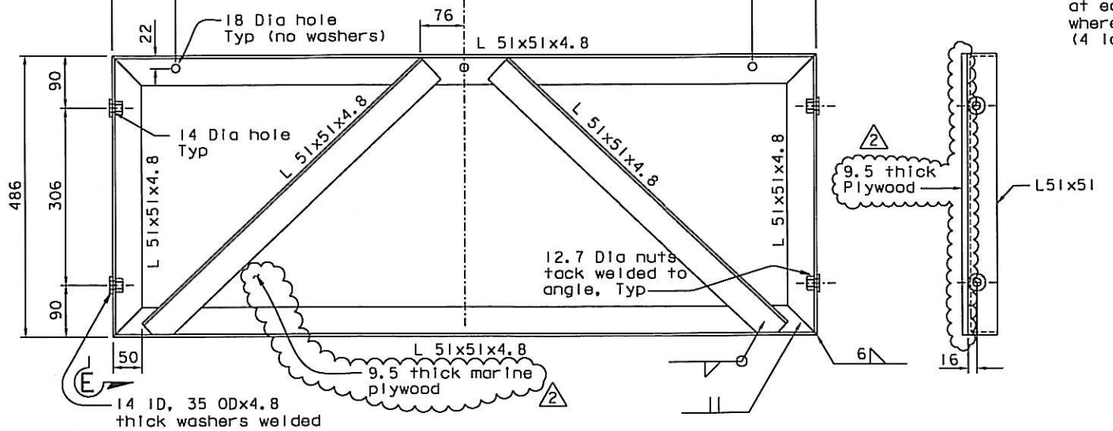
VIEW D-D
1:5



SECTION A-A

REMOVABLE HANDRAIL POST CONNECTION
1:2

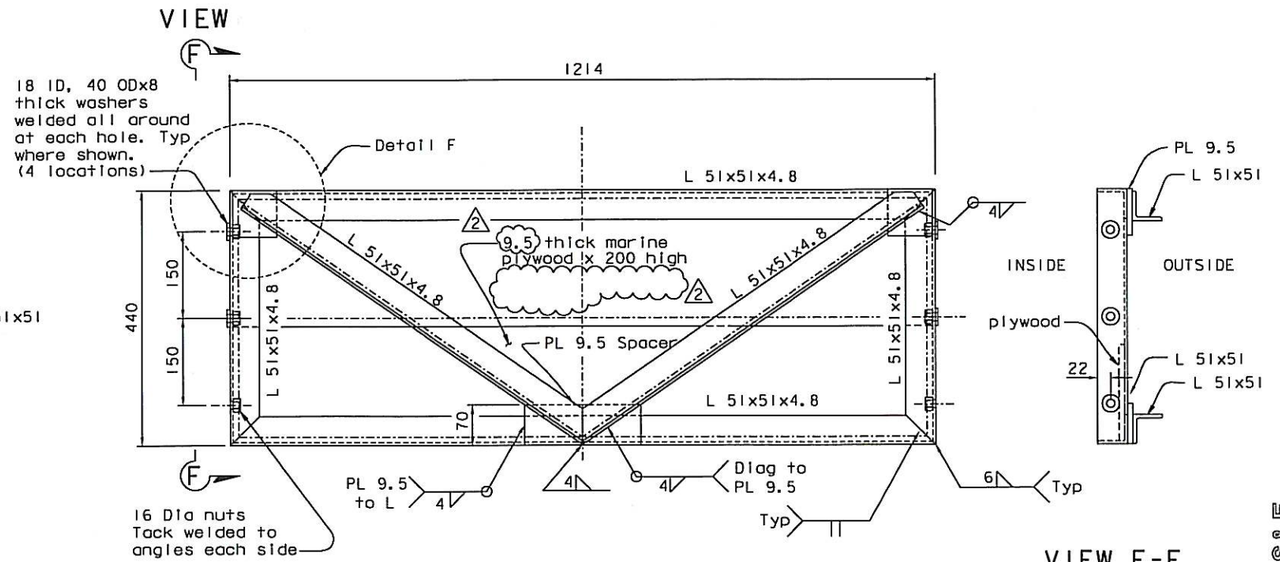
VIEW



RISER PANEL B
1:5

VIEW E-E
1:5

VIEW



RISER PANEL C
1:5

VIEW F-F
1:5

NOTES:

1. For Detail F, see "Traveler Supplementary Platform-04" sheet.

REGISTERED PROFESSIONAL ENGINEER — Marwan N. Nader — No. C 054426 — Exp. 12/31/13 — CIVIL — STATE OF CALIFORNIA

FOR REVISIONS ONLY

CONTRACT CHANGE ORDER NO. 272
SHEET 4 OF 7

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
2	12/14/12	TRAVELER DECKING	AB	MN	272
1	03/02/12	MISCELLANEOUS TRAVELER MODIFICATIONS	AB	RM	183S1

REVISIONS

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 12/14/12

	BY	CHECKED
DESIGN	J. Otter	R. Manzanarez
DETAILS	J. Otter	J. Leventini
QUANTITIES	J. Otter	J. Leventini

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

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

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

TRAVELER SUPPLEMENTARY PLATFORM-03

Rev. Date: 5-18-98

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

CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 03/02/12 | 07/27/12 | 12/13/12

SHEET 725R2 OF

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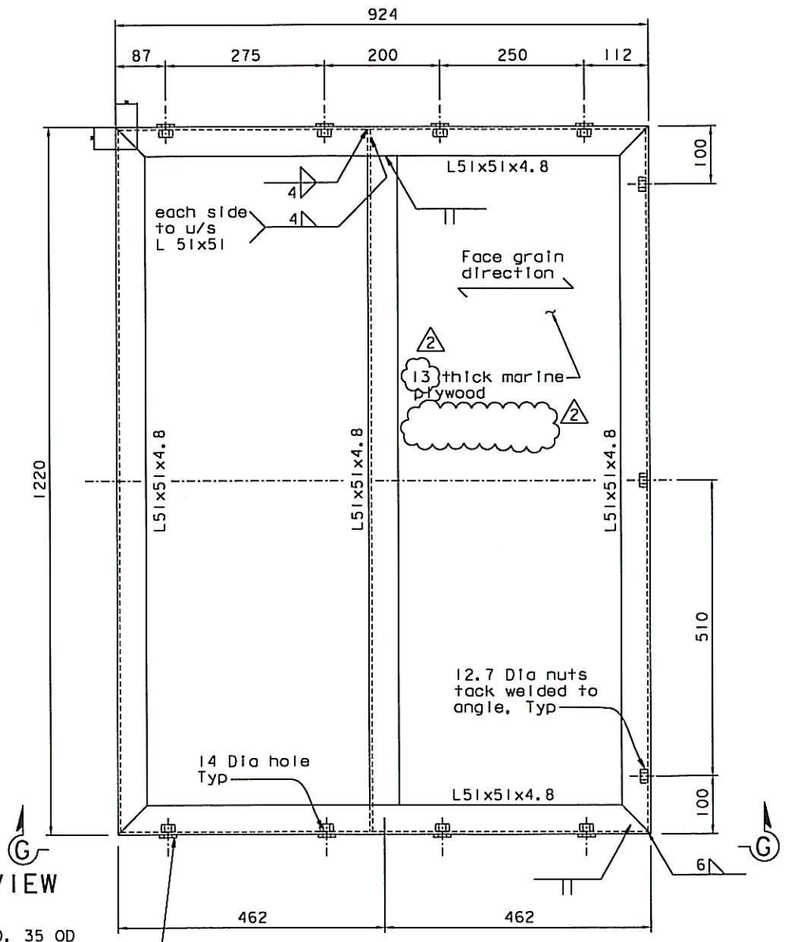
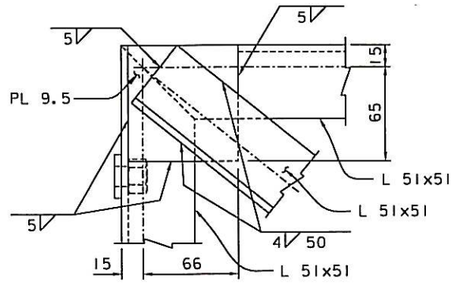


VIEW

14 ID, 35 OD x4.8 thick washers welded all around at each hole. Typ where shown

TYPICAL TREAD SECTION
1:5



DETAIL F
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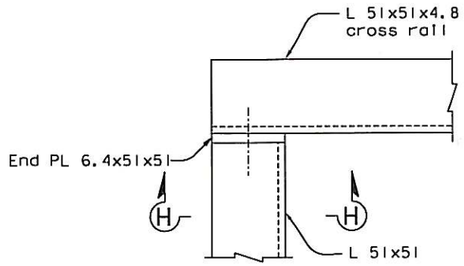
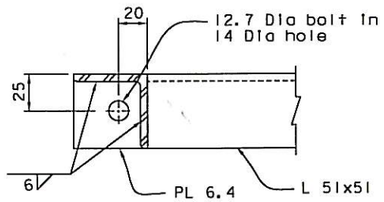
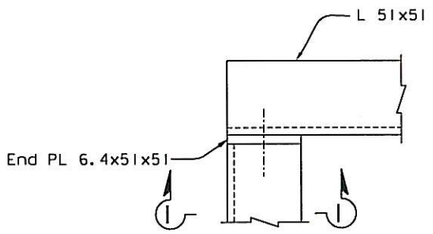
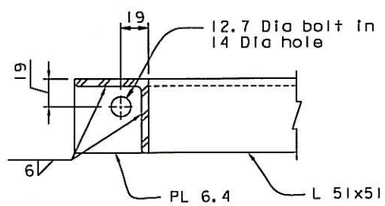




SECTION H-H
1:2

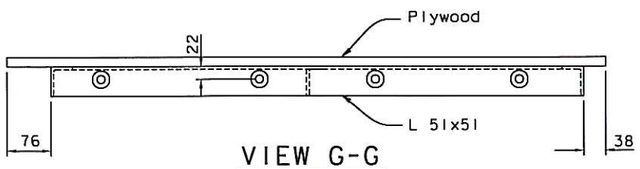
SECTION B-B
1:2





SECTION I-I
1:2

SECTION C-C
1:2



VIEW G-G
1:5

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	1143R2	1204

Caltrans Metric

Rafael Manzanarez
REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Rafael Manzanarez — No. C 36842 — Exp. 6/30/12 — CIVIL — STATE OF CALIFORNIA

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FOR REVISIONS ONLY

CONTRACT CHANGE ORDER NO. 272
SHEET 5 OF 7

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
2	12/14/12	TRAVELER DECKING	AB	MN	272
1	03/02/12	MISCELLANEOUS TRAVELER MODIFICATIONS	AB	RM	18351

REVISIONS

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Ryan Vallzadeh / Vong Toan / Y. Liu
SIGN OFF DATE 12/14/12

Rev. Date: 5-18-98

DESIGN BY J. Otter — CHECKED R. Manzanarez
DETAILS BY J. Otter — CHECKED J. Leventini
QUANTITIES BY J. Otter — CHECKED J. Leventini

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

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

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): 01/25/12 | 03/01/12 | 12/13/12

SHEET 726R2 OF

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

TRAVELER SUPPLEMENTARY PLATFORM-04

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SF	80	13.2/13.9	1163513	1204

REGISTERED ENGINEER — CIVIL

Adebowale O. Akinsanya, No. C 36044, Exp. 06/30/14, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

11-30-2012

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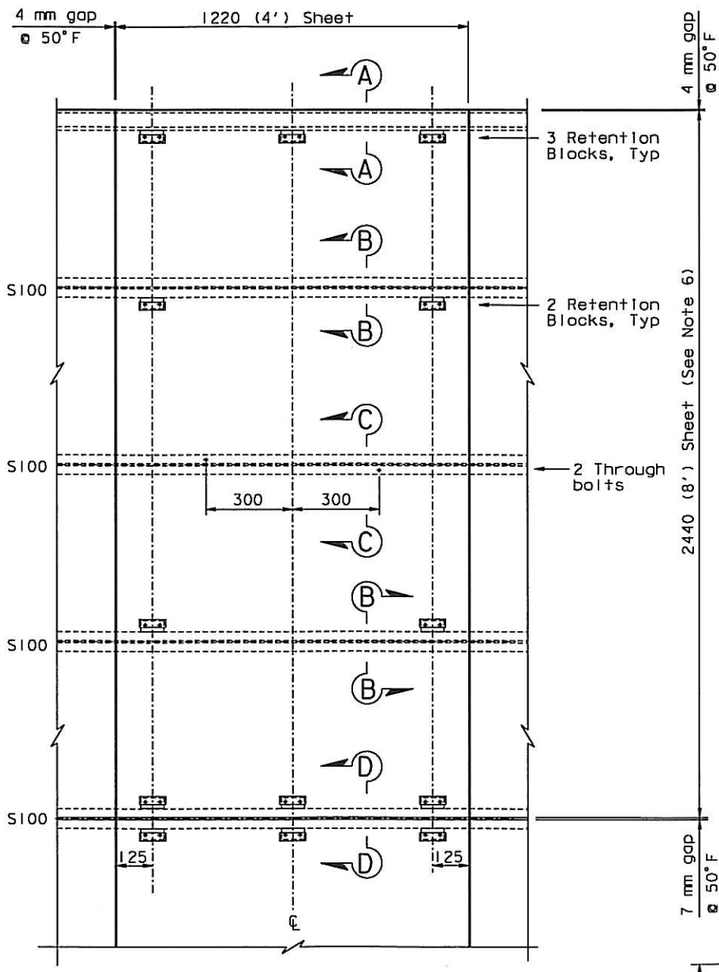
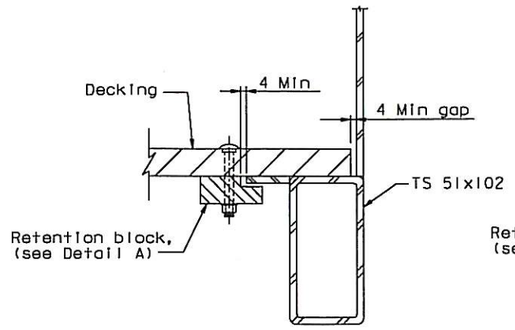


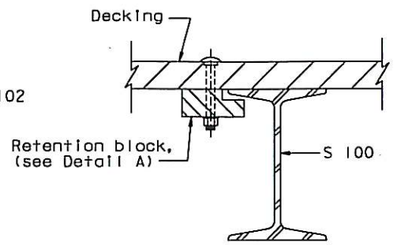
TYPICAL ATTACHMENT PATTERN FOR 4x8 SHEET OF DECKING

1:10



SECTION A-A

1:2



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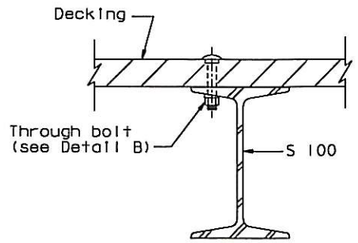

SECTION C-C

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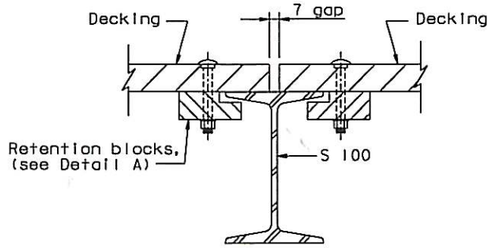

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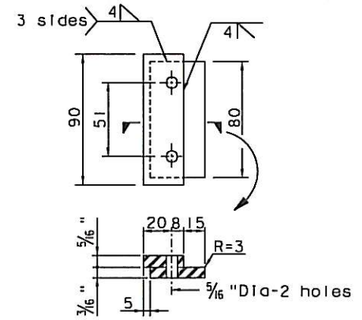
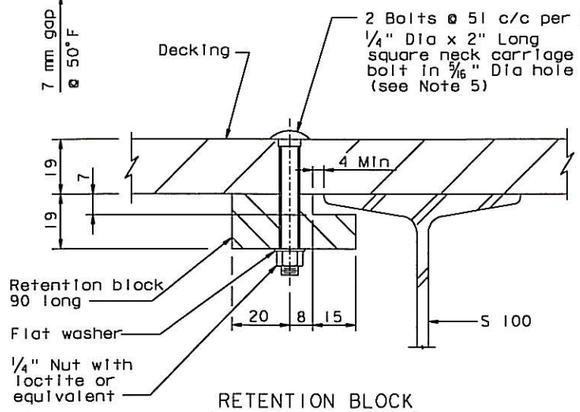
1:2



ALTERNATIVE RETENTION BLOCK (A36 STEEL GALVANIZED)

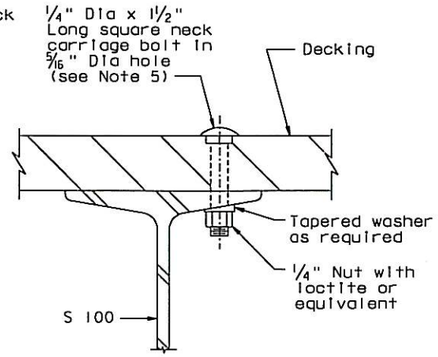
1:2



RETENTION BLOCK

DETAIL A (See Note 5)

1:1



BOLTING AT CENTER OF EACH SHEET

DETAIL B

1:1

NOTES:

1. Decking material shall be King Starboard AS polymer decking, or an approved equal.
2. Decking material shall be 3/4-inch thick, shall be white/white, and shall have the diamond pattern walking Surface.
3. E2/E3 Bikepath Traveler decking attachment patterns are similar. Modify retention block detail if required to suit flange thickness of steel members.
4. Retention block is to be milled from same material as decking. At the Contractor's option, "Alternative Retention Block" detail may be used.
5. Carriage bolts, nuts and washers to be galvanized or plated to Caltrans requirements.
6. For deck pieces smaller than 4'x8', one stringer line shall be fixed (Detail B or similar) and other stringer lines shall use retention blocks (Detail A or similar).

CONTRACT CHANGE ORDER NO. 272

SHEET 6 OF 7

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
0	11/30/12	TRAVELER DECKING	AA	WL	272

DESIGN BY A. Akinsanya CHECKED W. Long

DETAILS BY A. Akinsanya CHECKED W. Long

QUANTITIES BY A. Akinsanya CHECKED W. Long

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
SPECIAL DESIGNS BRANCH

BRIDGE NO. 34-0006 L/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)

TRAVELER ALTERNATE DECKING DETAILS NO. 1

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 11/30/12

SHEET 746513 OF

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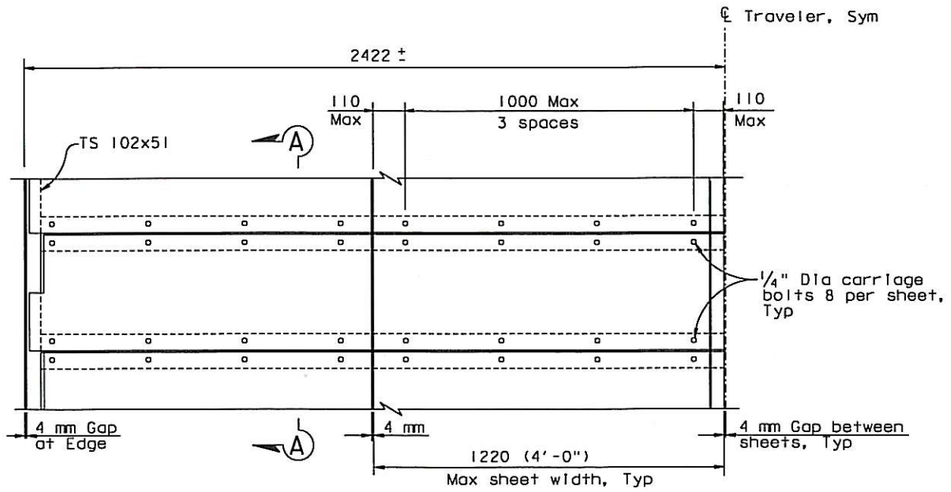
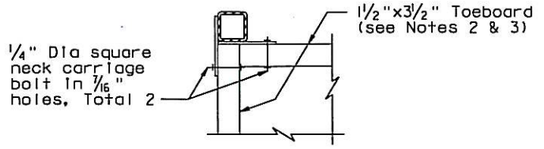
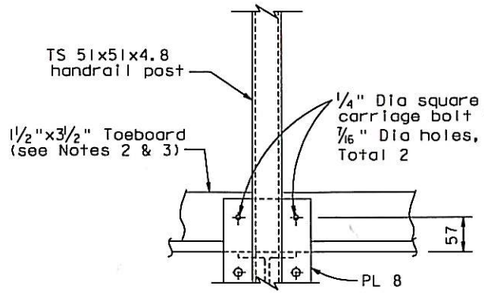


FIXED STAIR TREAD LAYOUT

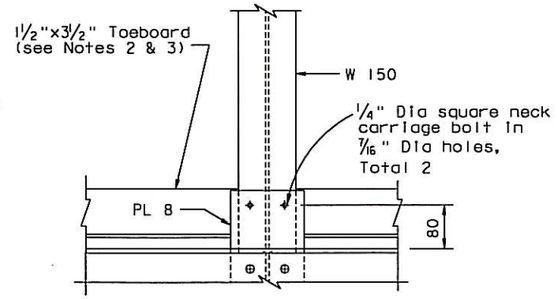
1:10



AT CORNER OF BALCONY



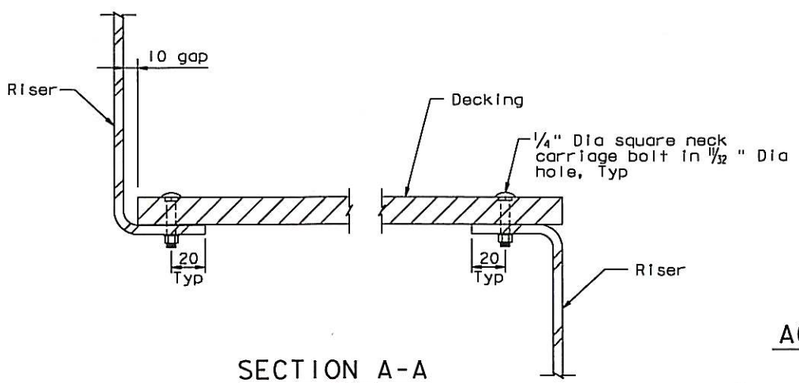
AT HANDRAIL POST



AT W150

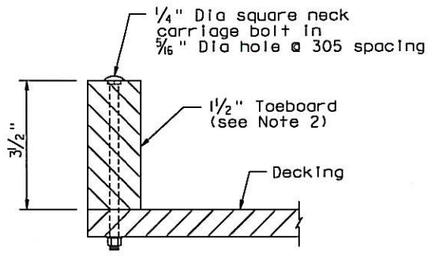
E2/E3 BIKEPATH TRVAVELER TOEBOARD DETAILS (See Note 4)

1:5



SECTION A-A

1:2



ACTUATOR AND SUSPENSION OPENING TOEBOARD DETAIL

1:2

NOTES:

1. For details not shown, see "Traveler Alternate Decking Details No.1" sheet.
2. At the direction of the Engineer, King Starboard or King Starboard AS polymer may be used for all toeboards.
3. Lengths of toeboard pieces shall not exceed 8'.
4. For details not shown, see "E2/E3 Bikepath Traveler Details" sheets.

CONTRACT CHANGE ORDER NO. 272
SHEET 7 OF 7

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SF	80	13.2/13.9	1163514	1204

REGISTERED ENGINEER - CIVIL

11-30-2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Adebowale O. Akinsanya — No. C 36044 — Exp. 06/30/14 — CIVIL — STATE OF CALIFORNIA

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
0	11/30/12	TRAVELER DECKING	AA	WL	272

	BY	CHECKED
DESIGN	A. Akinsanya	W. Long
DETAILS	A. Akinsanya	W. Long
QUANTITIES	A. Akinsanya	W. Long

Caltrans Metric

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
SPECIAL DESIGNS BRANCH

CU 04
EA 0120F1

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 11/30/12

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE (SUPERSTRUCTURE & TOWER)
TRAVELER ALTERNATE DECKING DETAILS NO.2

SHEET 746514 OF

FILE -> I:\bb\04-012001\sas\contract plans and cco\cco\cco*272\1-original 11-30-12\dgn\aktrv036b.dgn

USERNAME -> DMinrow DATE PLOTTED -> 30 NOV 2012 TIME PLOTTED -> 10:50:51