



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	1007R2	1204

REGISTERED ENGINEER - CIVIL

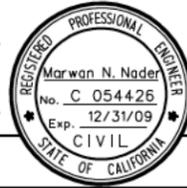
12-6-04

PLANS APPROVAL DATE

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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 |
| 1/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 Caltrans' "Design and Inspection Requirements for Traveling Scaffolds". Revised May 1991.
- B2. Design live load:
- Any Area < 30 m² - 1.2 kPa UDL
 - Areas > 30 m² - 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/m³
- 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
- All pipe sections to be ASTM A53B or approved alternate, Fy=240 MPa minimum, unless noted otherwise.
 - Mechanical tube to be of material & grade as noted on the specific drawings. Fabricator may propose substitutions.
- C2. Rolled Sections
- 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.
 - Angles and channels to be ASTM A572 Grade 42 (Fy=285 MPa), unless noted otherwise.
 - All other rolled sections to be ASTM A572 Grade 50 (Fy=345 MPa), unless noted otherwise.
 - Traveler rail sections to be ASTM A572 or A709 Grade 50 (Fy = 345 MPa) unless noted otherwise.
- C3. Plate
- All plate to be ASTM A572 or A709 Grade 50, Fy=345 unless noted otherwise.
- C4. Screw Parts (Threaded Parts)
- 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
- Material to be as noted on the drawings.
 - The fabricator is to provide mill certificates for the materials used in the fabrication of all pins.
- C6. Bolts
- All bolts to be ASTM grade A325, unless noted otherwise.
 - Fabricator is to supply a nut and one hardened washer with each bolt unless noted otherwise.
 - All bolts, nuts, & washers are to be galvanized.
 - 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.
- C9. UHMWPE denotes "ultra high molecular weight polyethylene".
- C10. Self tapping screws (#14 size) 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, turnbuckles 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. _____

SHEET _____ OF _____

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

R. Valizadeh/V. Toan/Y. L. /W. L. /F. C.
DESIGN OVERSIGHT
R. Valizadeh / V. Toan / Y. L. / W. L. / F. C.
SIGN OFF DATE 08/21/09

MARK	DATE	DESCRIPTION	BY	CH'D	CCO#
2	08/21/09	TRAVELER MODIFICATIONS	MN	AS	24SI
1	07/20/09	RAIL CHANGE & MISCELLANEOUS DETAILS	MN	NV	24

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	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

100% P&S DATE PLOTTED => 21 AUG 2009 USERNAME => dt1v8p