



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	1161R5	1204

REGISTERED ENGINEER - MECHANICAL

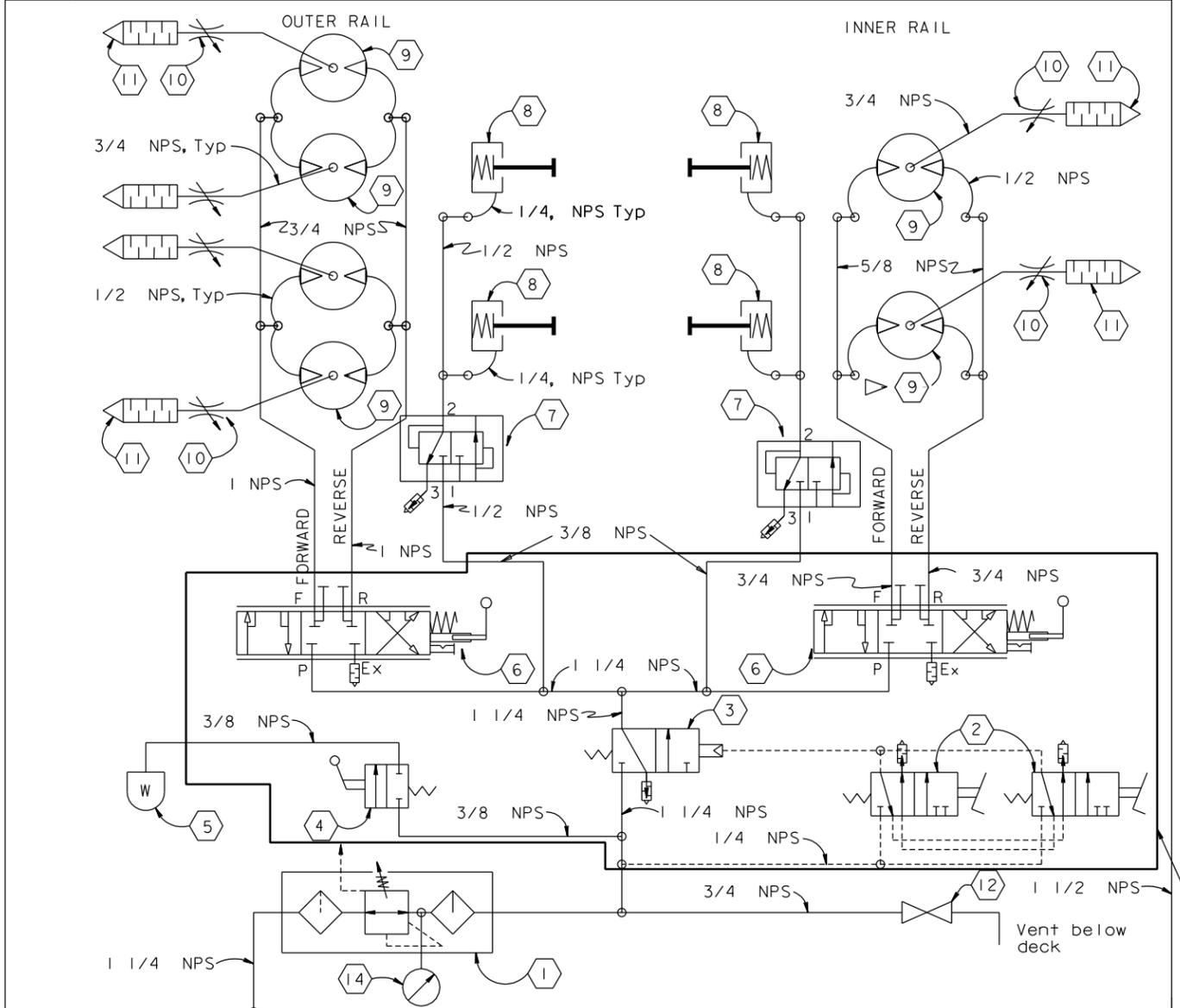
12-6-04

PLANS APPROVAL DATE

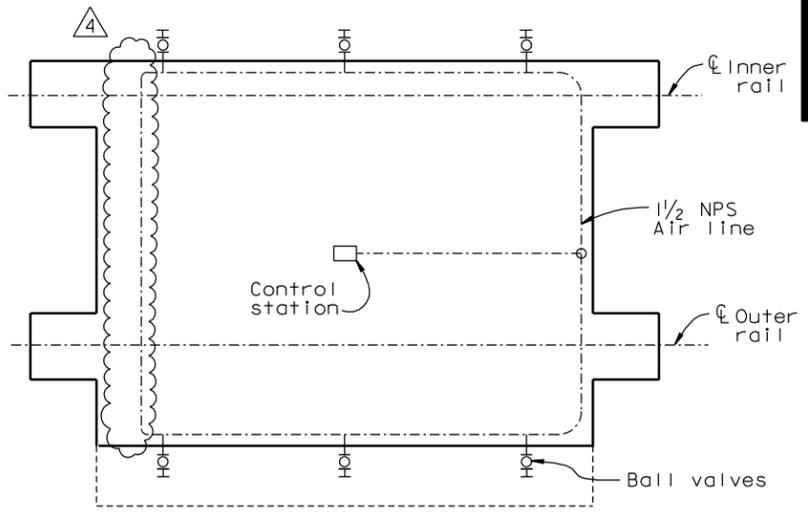
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SAN FRANCISCO, CA 94111

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**PNEUMATIC SCHEMATIC**  
NTS



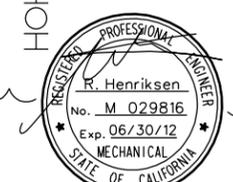
**PNEUMATIC LAYOUT PLAN**  
NTS

**LEGEND:** All Items Contained within Boundary Line are Located in the Control Panel

Part	Description	Size	Quantity per Traveler
1	Lubricator, Filter, Pressure Regulator		1
2	Pedal operated Pilot Valve - To control Valve 3	1/4"	2
3	Main System control valve - Poppet Valve	1 1/4"	1
4	Whistle valve	3/8"	1
5	Whistle	-	1
6	Full Flow throttle Valve for Trolley motors	1 1/4"	2
7	Quick Dump Valve for Brakes	1/2"	2
8	Ingersoll Rand Parking Brake	-	4
9	Ingersoll Rand Motorized Trolley	-	6
10	Exhaust Choke Valve for speed control	3/4"	6
11	Silencer	-	13
12	Blow Down Valve	3/4"	1
13	Not Used		
14	Gage		1
15	Ball Valve	1 1/2"	10
16	Coupling	1 1/2"	10
17	Flexible Supply Hose - 8000 long	2"	4
18	Reducer - 2" to 1 1/2"		4
19	Boss B27 Wing Nut & GB26 Stem & Hose Clamp	2"	4

All items contained within boundary line are located in the control panel

4. All pipe sizes are typical for similar locations.
5. On board rigid pipe to be SCHED 40.
6. Provide support to 1/2" pipe within 150 mm of each flexible hose connection and at 1800 intervals maximum.
7. Provide downturned elbow and reducer as required at each equipment connection.
8. Provide sufficient flexible connection hose to accommodate traveler movement (8000 mm length).
9. Mount throttle and whistle valves so as to be accessible by hand.
10. Mount pedal operated pilot valves (item 2) Dead Man Switch so as to be operated by foot. One for operator facing east, one for operator facing west.
11. Provide weather cover for all controls.
12. Pneumatic schematics illustrate the principles of the pneumatic systems. System manufacturer is to: review pneumatic schematics; carry out detailed design of the system; make any detailed modifications necessary to ensure the proper operation of the systems.



FOR REVISION 3, 4, & 5 ONLY



FOR REVISION 2 ONLY

REVISION 2 SUPERSEDES REVISION 1

**CONTRACT CHANGE ORDER NO. \_\_\_\_\_**  
**SHEET \_\_\_\_\_ OF \_\_\_\_\_**

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
3	02/03/12	MISCELLANEOUS TRAVELER MODIFICATIONS	RH	AB	183SI
4	01/11/12	MISCELLANEOUS TRAVELER MODIFICATIONS	RH	AS	183SI
5	07/30/10	TRAVELER MODIFICATIONS	RH	RS	24SI
2	08/21/09	TRAVELER MODIFICATIONS	TH	AS	24SI
1	07/20/07	RAIL CHANGE & MISCELLANEOUS DETAILS	RD	NV	24

13. Fabricator to design & supply a console for the control station using steel angle frame & plywood enclosure.
14. Traveler maximum operating speed 6.1 m/min (20 fpm) fully loaded going upgrade.
15. Anticipated air consumption at full speed is 25 scfm per trolley.
16. For valve item 6, use same valve type as will be used for the main trolley throttles on the SAS and E2/E3 travelers.

DESIGN	BY	CHECKED
BY	J. Otter	R. Donikian
DETAILS	J. Otter	R. Donikian
QUANTITIES	J. Otter	M. Roberts

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

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)**

**E2/E3 BIKEPATH TRAVELER AIR SYSTEM**

R. Valizadeh/V. Toan/Y.L./W.L./F.C.  
DESIGN OVERSIGHT  
SIGN OFF DATE 02/03/12

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

CU 04  
EA 0120F1

REVISION DATES (PRELIMINARY STAGE ONLY)

04/15/02	07/20/07	12/19/02
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SHEET 744R5 OF

100% P&E DATE PLOTTED => 03 FEB 2012 TIME PLOTTED => 09:06:38 USERNAME => DWInow