Santa Cruz Branch Rail Line Structures Assessments Summary of Estimated Capital and Annual Maintenance Costs Updated April 2008

		Biggs Cardosa				HNTB				HNTB & Biggs Cardosa ³			
MP	Structure	Potential Capital Costs 1,2,4		Potential Maintenance Costs 1,2,4		Potential Capital Costs ^{1,4}		Potential Maintenance Costs ^{1,5}		Potential Capital Costs ^{1,4}		Potential Maintenance Costs 1,5	
	Name	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
0.86		\$27,100	\$54,200	\$4,300	\$5,400					\$27,100	\$54,200	\$4,300	\$5,400
1.06a		\$0	\$0	\$3,600	\$4,900					\$0	\$0	\$3,600	\$4,900
1.06b	Pajaro River Crossing	\$0	\$187,700	\$6,800	\$9,700	\$57,000	\$68,000	\$5,670	\$9,585	\$57,000	\$68,000	\$5,670	\$9,585
1.06c		\$0	\$0	\$1,800	\$2,500					\$0	\$0	\$1,800	\$2,500
4.45	Watsonville Slough	\$0	\$0	\$1,300	\$1,400					\$0	\$0	\$1,300	\$1,400
	Retaining Wall	10.000		10.000	+=	\$0	\$0	\$0	\$540	\$0	\$0	\$0	\$540
4.87	Harkins Slough	\$9,000	\$18,100	\$3,800	\$5,000					\$9,000	\$18,100	\$3,800	\$5,000
5.42		\$9,000	\$36,100	\$1,000	\$1,300 \$3,500					\$9,000	\$36,100	\$1,000	\$1,300
5.54 6.01		\$3,600 \$3,600	\$18,100	\$2,800 \$1,800	\$3,500 \$2,400					\$3,600 \$3,600	\$18,100	\$2,800 \$1,800	\$3,500
6.14		\$3,600 \$3,600	\$18,100 \$18,100	\$1,800	\$2,400 \$1,300					\$3,600 \$3,600	\$18,100 \$18,100	\$1,800 \$1,000	\$2,400 \$1,300
6.25		\$9,000	\$16,100	\$2,400	\$3,500					\$9,000	\$36,100	\$2,400	\$1,500
8.32		\$0	\$0	\$1,000	\$1,300					\$0	\$0,100	\$1,000	\$1,300
8.64a	San Andreas Road	\$0 \$0	\$10,100	\$1,000	\$1,400					\$0 \$0	\$10,100	\$1,000	\$1,400
8.64b	San Andreas Road	\$9,000	\$36,100	\$2,200	\$3,100					\$9,000	\$36,100	\$2,200	\$3,100
0.0.0	Retaining Wall	47/000	400/.00	ψ2/200	401.00	\$89,000	\$123,000	\$0	\$675	\$89,000	\$123,000	\$0	\$675
9.09	La Selva Beach Trestle	\$4,726,000	\$8,479,000	\$7,000	\$12,500	\$1,532,000	\$2,168,000	\$8,370	\$14,985	\$1,532,000	\$2,168,000	\$8,370	\$14,985
9.30	Retaining Wall					\$0	\$0	\$0	\$495	\$0	\$0	\$0	\$495
10.45	Seascape Trestle	\$72,300	\$180,700	\$4,700	\$8,300	\$217,000	\$348,000	\$4,860	\$7,425	\$217,000	\$348,000	\$4,860	\$7,425
11.16		\$36,100	\$108,400	\$4,700	\$7,600					\$36,100	\$108,400	\$4,700	\$7,600
12.30	State Route 1	\$0	\$0	\$2,100	\$3,100					\$0	\$0	\$2,100	\$3,100
12.34	Valencia Creek	\$0	\$0	\$4,900	\$6,800					\$0	\$0	\$4,900	\$6,800
12.39	Soquel Drive	\$0	\$0	\$1,300	\$1,900					\$0	\$0	\$1,300	\$1,900
12.71a	Aptos Creek & Spreckles Dr.	\$0	\$0	\$3,600	\$4,400					\$0	\$0	\$3,600	\$4,400
12.71b		\$0	\$0	\$1,700	\$2,100					\$0	\$0	\$1,700	\$2,100
12.83	State Route 1	\$0	\$0	\$3,100	\$3,900					\$0	\$0	\$3,100	\$3,900
14.85	New Brighton Beach Rd.	\$0	\$4,000	\$1,000	\$1,400	¢0.000	¢14 F00	¢1.000	¢2.700	\$0	\$4,000	\$1,000	\$1,400
15.89a 15.89b	Capitola Crossing Capitola Crossing	\$0 \$36,100	\$44,300 \$139,100	\$2,400 \$4,300	\$3,900 \$7,200	\$9,000 \$78,000	\$14,500 \$125,000	\$1,890 \$4,455	\$2,700 \$6,750	\$9,000 \$78,000	\$14,500 \$125,000	\$1,890 \$4,455	\$2,700 \$6,750
15.89c	Capitola Crossing Capitola Crossing	\$30,100 \$0	\$139,100	\$4,300	\$7,200	\$76,000 \$167,000	\$125,000	\$3,375	\$6,750 \$5,670	\$76,000 \$167,000	\$125,000	\$4,455 \$3,375	\$5,670
15.89d	Capitola Crossing	\$18,100	\$79,500	\$1,000	\$1,400	\$26,000	\$41,000	\$945	\$1,350	\$26,000	\$41,000	\$945	\$1,350
	Capitola Crossing	\$10,100	\$22,200	\$1,300	\$1,800	\$6,000	\$8,500	\$1,080	\$1,620	\$6,000	\$8,500	\$1,080	\$1,620
17.30	Rodeo Gulch	\$0 \$0	\$0	\$4,900	\$6,700	+5,000	+5,000	4.7000	+ . ,020	\$0	\$0	\$4,900	\$6,700
18.84	SC Small Craft Harbor	\$0	\$0	\$4,000	\$6,100					\$0	\$0	\$4,000	\$6,100
	San Lorenzo River	\$37,500	\$225,200	\$5,400	\$9,700	\$360,000	\$540,000	\$4,860	\$8,505	\$360,000	\$540,000	\$4,860	\$8,505
	San Lorenzo River	\$9,500	\$75,100	\$1,300	\$2,500	\$44,000	\$54,000	\$1,080	\$1,755	\$44,000	\$54,000	\$1,080	\$1,755
19.43	San Lorenzo Seismic Retro ²					\$1,200,000	\$1,200,000			\$1,200,000	\$1,200,000 N	J/A N	/A
	Moore's Gulch	\$36,100	\$108,400	\$6,500	\$9,500		. , .,			\$36,100	\$108,400	\$6,500	\$9,500
	Wilder Creek	\$0	\$0	\$1,000	\$1,300					\$0	\$0	\$1,000	\$1,300
23.54	Meder Creek Crossing	\$9,000	\$18,100	\$1,000	\$1,300	\$14,500	\$23,500	\$270	\$540	\$14,500	\$23,500	\$270	\$540
26.09	Baldwin Creek	\$0	\$0	\$1,000	\$1,300					\$0	\$0	\$1,000	\$1,300
26.55		\$0	\$9,000	\$1,000	\$1,300					\$0	\$9,000	\$1,000	\$1,300
TOTALS		\$5,054,600	\$10,132,100	\$107,300	\$158,400	\$3,799,500	\$4,949,500	\$36,855	\$62,595	\$3,945,600	\$5,424,300	\$105,655	\$156,995

¹ Repair costs and maintenance costs include mobilization/demobilization (10%) design engineering (12%), construction management (12%), and project reserve (5%)

² Figures in structural assessment report did not include additional "soft costs" and are included here consistent with note 1

³ These costs are based on the most recent figures. (Costs are from HNTB June 23, 2006 report when available and from July 2005 Structural Assessment for structures not evaluated in June 23, 2006 report.)

⁴ Updated and escalated to August 2008 cost figures by Biggs Cardosa in March 2008 with the exception of HNTB maintenance costs

⁵ HNTB maintenance costs escalated by 35% consistent with the Biggs Cardosa updated maintenance figures of March 2008