

APPENDIX 7

Cost Estimate

Estimate of Probable Construction Costs
Paseo del Norte
High Capacity Transit Study
January 23, 2014

ROUTE	ITEMS	ROW	TOTAL COST
Yellow Route	\$41,600,000	\$14,100,000	\$55,700,000
Brown Route	\$24,600,000	\$0	\$24,600,000
Blue Route	\$5,900,000	\$800,000	\$6,700,000
LPA Total	\$72,100,000	\$14,900,000	\$87,000,000

ROUTE	ITEMS	ROW	TOTAL COST
Yellow Route	\$41,621,027.89	\$14,075,000.00	\$55,696,027.89
Brown Route	\$24,561,433.05	\$0.00	\$24,561,433.05
Blue Route	\$5,938,599.49	\$836,000.00	\$6,774,599.49

Estimate of Probable Construction Costs
Paseo del Norte
High Capacity Transit Study
 January 23, 2014

CATEGORY	DESCRIPTIONS	YELLOW ROUTE	BROWN ROUTE	BLUE ROUTE	CATEGORY TOTAL
10.02	Guideway : At Grade Semi-Exclusive	\$17,480,600	\$15,503,600	\$779,600	\$33,763,800
20.01	At-Grade station, stop, shelter, mall, terminal, platform	\$5,440,500	\$1,080,000	\$2,160,000	\$8,680,500
40.06	Pedestrian/bike access and accommodation, landscaping	\$324,800	\$678,400	\$139,200	\$1,142,400
40.07	Automobile, bus, van accessways including roads, parking lots	\$4,721,800	\$1,916,100	\$2,800	\$6,640,700
40.08	Temporary facilities and other indirect costs during construction	\$8,380,800	\$3,118,400	\$959,500	\$12,458,700
50.02	Traffic Signals and crossing protection	\$4,792,500	\$2,025,000	\$1,417,500	\$8,235,000
50.05	Communications	\$240,000	\$120,000	\$240,000	\$600,000
50.06	Fare collections system and	\$240,000	\$120,000	\$240,000	\$600,000
60.01	Purchase or lease of real estate	\$14,075,000	\$0	\$836,000	\$14,900,000
70.00	Vehicles				\$12,000,000
80.00	Professional Services				\$6,000,000
	PROJECT TOTALS	\$55,700,000	\$24,600,000	\$6,800,000	\$105,021,100

Estimate of Probable Construction Costs
Paseo del Norte
High Capacity Transit Study
Yellow Route
January 23, 2014

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	Y1 - Unser Blvd. - Cabezon to Wellspring (Segment Length = 4380')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	10,710	\$803,250.00
	Curb & Gutter	LF	20.50	8,760	\$179,580.00
	Items				\$982,830.00
	35% Contingency				\$343,990.50
	Subtotal				\$1,326,820.50
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	200,000.00	2	\$400,000.00
	Park & Ride	Acre	75,000.00	6.8	\$510,000.00
	Items				\$910,000.00
	35% Contingency				\$318,500.00
	Subtotal				\$1,228,500.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	2	\$5,000.00
	Items				\$5,000.00
	35% Contingency				\$1,750.00
	Subtotal				\$6,750.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	10,000	\$20,000.00
	Base Course 6"	SY	7.00	10,000	\$70,000.00
	OGFC	SY	3.70	10,000	\$37,000.00
	HMA 6"	SY	25.00	10,000	\$250,000.00
	Curb & Gutter, Standard	LF	20.50	6,000	\$123,000.00
	Items				\$500,000.00
	35% Contingency				\$175,000.00
	Subtotal				\$675,000.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	122,843.56	1	\$122,843.56
	Construction Surveying	1.50%	122,843.56	1	\$122,843.56
	Construction Mobilization	6.00%	491,374.23	1	\$491,374.23
	Construction Traffic Control	8.00%	655,165.64	1	\$655,165.64
	NPDES Permitting	1.00%	81,895.71	1	\$81,895.71
	Items				\$1,482,122.69
	Subtotal				\$1,482,122.69
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	0	\$0.00
	Existing Signal Modifications	EA	100,000.00	3	\$300,000.00
	Bus Priority Modification	EA	50,000.00	3	\$150,000.00
	Items				\$450,000.00
	35% Contingency				\$157,500.00
	Subtotal				\$607,500.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	2	\$60,000.00
	Items				\$60,000.00
	Subtotal				\$60,000.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	2	\$60,000.00
	Items				\$60,000.00
	Subtotal				\$60,000.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	500,000.00	8.45	\$4,225,000.00
	Items				\$4,225,000.00
	Subtotal				\$4,225,000.00
	Y1 Items w/Contingency				\$5,446,693.19
	Y1 Total				\$9,671,693.19

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	Y2 - Unser Blvd. - Wellspring to Black Arroyo (Segment Length = 1300')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	3,500	\$262,500.00
	Curb & Gutter	LF	20.50	2,600	\$53,300.00
	Items				\$315,800.00
	35% Contingency				\$110,530.00
	Subtotal				\$426,330.00
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	1	\$300,000.00
	Park & Ride	Acre	75,000.00	5.0	\$375,000.00
	Items				\$675,000.00
	35% Contingency				\$236,250.00
	Subtotal				\$911,250.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	1	\$2,500.00
	Items				\$2,500.00
	35% Contingency				\$875.00
	Subtotal				\$3,375.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	3,500	\$7,000.00
	Base Course 6"	SY	7.00	3,500	\$24,500.00
	OGFC	SY	3.70	3,500	\$12,950.00
	HMA 6"	SY	25.00	3,500	\$87,500.00
	Curb & Gutter, Standard	LF	20.50	3,000	\$61,500.00
	Items				\$193,450.00
	35% Contingency				\$67,707.50
	Subtotal				\$261,157.50
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	67,494.19	1	\$67,494.19
	Construction Surveying	1.50%	67,494.19	1	\$67,494.19
	Construction Mobilization	6.00%	269,976.75	1	\$269,976.75
	Construction Traffic Control	8.00%	139,969.00	1	\$139,969.00
	NPDES Permitting	1.00%	44,996.13	1	\$44,996.13
	Items				\$597,930.25
	Subtotal				\$597,930.25
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	1	\$250,000.00
	Existing Signal Modifications	EA	100,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$250,000.00
	35% Contingency				\$87,500.00
	Subtotal				\$337,500.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	1	\$30,000.00
	Items				\$30,000.00
	Subtotal				\$30,000.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	1	\$30,000.00
	Subtotal				\$30,000.00
	Land Acquisition	Acre	500,000.00	5.00	\$2,500,000.00
	Subtotal				\$2,500,000.00
	Y2 Items w/Contingency				\$2,597,542.75
	Y2 Total				\$5,097,542.75

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	Y3 - Unser Blvd. - Black Arroyo to McMahon (Segment Length = 1840')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	4,900	\$367,500.00
	Curb & Gutter	LF	20.50	3,700	\$75,850.00
	Items				\$443,350.00
	35% Contingency				\$155,172.50
	Subtotal				\$598,522.50
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	0	\$0.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	2,455	\$36,825.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	0	\$0.00
	Items				\$36,825.00
	35% Contingency				\$12,888.75
	Subtotal				\$49,713.75
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	5,500	\$11,000.00
	Base Course 6"	SY	7.00	5,500	\$38,500.00
	OGFC	SY	3.70	5,500	\$20,350.00
	HMA 6"	SY	25.00	5,500	\$137,500.00
	Curb & Gutter, Standard	LF	20.50	3,800	\$77,900.00
	Items				\$285,250.00
	35% Contingency				\$99,837.50
	Subtotal				\$385,087.50
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	23,899.86	1	\$23,899.86
	Construction Surveying	1.50%	23,899.86	1	\$23,899.86
	Construction Mobilization	6.00%	95,599.43	1	\$95,599.43
	Construction Traffic Control	8.00%	127,465.90	1	\$127,465.90
	NPDES Permitting	1.00%	15,933.24	1	\$15,933.24
	Items				\$294,798.28
	Subtotal				\$294,798.28
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	Existing Signal Modifications	EA	100,000.00	1	\$100,000.00
	Bus Priority Modification	EA	50,000.00	1	\$50,000.00
	Items				\$150,000.00
	35% Contingency				\$52,500.00
	Subtotal				\$202,500.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	650,000.00	0.55	\$357,500.00
	Items				\$357,500.00
	Subtotal				\$357,500.00
	Y3 Items w/Contingency				\$1,530,622.03
	Y3 Total				\$1,888,122.03

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	Y4 - Unser Blvd. - McMahon to Bandelier (Segment Length = 1600')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	4,300	\$322,500.00
	Curb & Gutter	LF	20.50	3,200	\$65,600.00
	Items				\$388,100.00
	35% Contingency				\$135,835.00
	Subtotal				\$523,935.00
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	1	\$300,000.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$300,000.00
	35% Contingency				\$105,000.00
	Subtotal				\$405,000.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	2,133	\$31,995.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	1	\$2,500.00
	Items				\$34,495.00
	35% Contingency				\$12,073.25
	Subtotal				\$46,568.25
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	7,500	\$15,000.00
	Base Course 6"	SY	7.00	7,500	\$52,500.00
	OGFC	SY	3.70	7,500	\$27,750.00
	HMA 6"	SY	25.00	7,500	\$187,500.00
	Curb & Gutter, Standard	LF	20.50	6,400	\$131,200.00
	Items				\$413,950.00
	35% Contingency				\$144,882.50
	Subtotal				\$558,832.50
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	29,840.04	1	\$29,840.04
	Construction Surveying	1.50%	29,840.04	1	\$29,840.04
	Construction Mobilization	6.00%	119,360.15	1	\$119,360.15
	Construction Traffic Control	8.00%	159,146.86	1	\$159,146.86
	NPDES Permitting	1.00%	19,893.36	1	\$19,893.36
	Items				\$366,080.44
	Subtotal				\$366,080.44
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	0	\$0.00
	Existing Signal Modifications	EA	100,000.00	1	\$100,000.00
	Bus Priority Modification	EA	50,000.00	1	\$50,000.00
	Items				\$150,000.00
	35% Contingency				\$52,500.00
	Subtotal				\$202,500.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	1	\$30,000.00
	Items				\$30,000.00
	Subtotal				\$30,000.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	1	\$30,000.00
	Items				\$30,000.00
	Subtotal				\$30,000.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	350,000.00	0.55	\$192,500.00
	Items				\$192,500.00
	Subtotal				\$192,500.00
	Y4 Items w/Contingency				\$2,162,916.19
	Y4 Total				\$2,355,416.19

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	Y5 - Unser Blvd. - Bandelier to Irving				
					(Segment Length = 2340')
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	6,300	\$472,500.00
	Curb & Gutter	LF	20.50	4,680	\$95,940.00
	Items				\$568,440.00
	35% Contingency				\$198,954.00
	Subtotal				\$767,394.00
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	0	\$0.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	3,120	\$46,800.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	0	\$0.00
	Items				\$46,800.00
	35% Contingency				\$16,380.00
	Subtotal				\$63,180.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	2,100	\$4,200.00
	Base Course 6"	SY	7.00	2,100	\$14,700.00
	OGFC	SY	3.70	2,100	\$7,770.00
	HMA 6"	SY	25.00	2,100	\$52,500.00
	Curb & Gutter, Standard	LF	20.50	4,820	\$98,810.00
	Items				\$177,980.00
	35% Contingency				\$62,293.00
	Subtotal				\$240,273.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	21,987.71	1	\$21,987.71
	Construction Surveying	1.50%	21,987.71	1	\$21,987.71
	Construction Mobilization	6.00%	87,950.82	1	\$87,950.82
	Construction Traffic Control	8.00%	105,267.76	1	\$105,267.76
	NPDES Permitting	1.00%	14,658.47	1	\$14,658.47
	Items				\$259,852.46
	Subtotal				\$259,852.46
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	0	\$0.00
	Existing Signal Modifications	EA	100,000.00	1	\$100,000.00
	Bus Priority Modification	EA	50,000.00	1	\$50,000.00
	Items				\$150,000.00
	35% Contingency				\$52,500.00
	Subtotal				\$202,500.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
	Land Acquisition	Acre	350,000.00	0.55	\$192,500.00
	Items				\$192,500.00
	Subtotal				\$192,500.00
	Y5 Items w/Contingency				\$1,533,199.46
	Y5 Total				\$1,725,699.46

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	Y6 - Unser Blvd. - Irving to Paradise				
	(Segment Length = 2350')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	0	\$0.00
	Curb & Gutter	LF	20.50	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	0	\$0.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	6,300	\$12,600.00
	Base Course 6"	SY	7.00	6,300	\$44,100.00
	OGFC	SY	3.70	6,300	\$23,310.00
	HMA 10"	SY	40.00	6,300	\$252,000.00
	Curb & Gutter, Standard	LF	20.50	0	\$0.00
	Items				\$332,010.00
	35% Contingency				\$116,203.50
	Subtotal				\$448,213.50
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	15,685.70	1	\$15,685.70
	Construction Surveying	1.50%	15,685.70	1	\$15,685.70
	Construction Mobilization	6.00%	62,742.81	1	\$62,742.81
	Construction Traffic Control	8.00%	83,657.08	1	\$83,657.08
	NPDES Permitting	1.00%	10,457.14	1	\$10,457.14
	Items				\$196,228.43
	Subtotal				\$196,228.43
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	1	\$300,000.00
	Existing Signal Modifications	EA	100,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$300,000.00
	35% Contingency				\$105,000.00
	Subtotal				\$405,000.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	350,000.00	0.55	\$192,500.00
	Items				\$192,500.00
	Subtotal				\$192,500.00
	Y6 Items w/Contingency				\$1,049,441.93
	Y6 Total				\$1,241,941.93

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	Y7 - Unser Blvd. - Paradise to Volcano Cliffs Transit (Segment Length = 4920')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	13,500	\$1,012,500.00
	Curb & Gutter	LF	20.50	9,840	\$201,720.00
	Items				\$1,214,220.00
	35% Contingency				\$424,977.00
	Subtotal				\$1,639,197.00
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	1	\$300,000.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$300,000.00
	35% Contingency				\$105,000.00
	Subtotal				\$405,000.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	1	\$2,500.00
	Items				\$2,500.00
	35% Contingency				\$875.00
	Subtotal				\$3,375.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	12,575	\$25,150.00
	Base Course 6"	SY	7.00	12,575	\$88,025.00
	OGFC	SY	3.70	12,575	\$46,527.50
	HMA 10"	SY	40.00	12,575	\$503,000.00
	Curb & Gutter, Standard	LF	20.50	9,840	\$201,720.00
	Items				\$864,422.50
	35% Contingency				\$302,547.88
	Subtotal				\$1,166,970.38
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	55,193.14	1	\$55,193.14
	Construction Surveying	1.50%	55,193.14	1	\$55,193.14
	Construction Mobilization	6.00%	220,772.54	1	\$220,772.54
	Construction Traffic Control	8.00%	294,363.39	1	\$294,363.39
	NPDES Permitting	1.00%	36,795.42	1	\$36,795.42
	Items				\$670,317.63
	Subtotal				\$670,317.63
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	1	\$300,000.00
	New Minor Signal	EA	250,000.00	0	\$0.00
	Existing Signal Modifications	EA	100,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$300,000.00
	35% Contingency				\$105,000.00
	Subtotal				\$405,000.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	1	\$30,000.00
	Items				\$30,000.00
	Subtotal				\$30,000.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	1	\$30,000.00
	Items				\$30,000.00
	Subtotal				\$30,000.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	350,000.00	0.00	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
	Y7 Items w/Contingency				\$4,349,860.00
	Y7 Total				\$4,349,860.00

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	Y8 - Volcano Cliffs Transit Blvd. - Unser to Paseo del Norte (Segment Length = 2670')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	13,500	\$1,012,500.00
	Curb & Gutter	LF	20.50	9,840	\$201,720.00
	Items				\$1,214,220.00
	35% Contingency				\$424,977.00
	Subtotal				\$1,639,197.00
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	1	\$300,000.00
	Park & Ride	Acre	75,000.00	5.0	\$375,000.00
	Items				\$675,000.00
	35% Contingency				\$236,250.00
	Subtotal				\$911,250.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	1	\$2,500.00
	Items				\$2,500.00
	35% Contingency				\$875.00
	Subtotal				\$3,375.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	6,000	\$12,000.00
	Base Course 6"	SY	7.00	6,000	\$42,000.00
	OGFC	SY	3.70	6,000	\$22,200.00
	HMA 10"	SY	40.00	6,000	\$240,000.00
	Curb & Gutter, Standard	LF	20.50	6,000	\$123,000.00
	Items				\$439,200.00
	35% Contingency				\$153,720.00
	Subtotal				\$592,920.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	64,676.13	1	\$64,676.13
	Construction Surveying	1.50%	64,676.13	1	\$64,676.13
	Construction Mobilization	6.00%	258,704.52	1	\$258,704.52
	Construction Traffic Control	8.00%	344,939.36	1	\$344,939.36
	NPDES Permitting	1.00%	43,117.42	1	\$43,117.42
	Items				\$784,113.56
	Subtotal				\$784,113.56
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	1	\$300,000.00
	New Minor Signal	EA	250,000.00	0	\$0.00
	Existing Signal Modifications	EA	100,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$300,000.00
	35% Contingency				\$105,000.00
	Subtotal				\$405,000.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	1	\$30,000.00
	Items				\$30,000.00
	Subtotal				\$30,000.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	1	\$30,000.00
	Items				\$30,000.00
	Subtotal				\$30,000.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	350,000.00	2.00	\$700,000.00
	Items				\$700,000.00
	Subtotal				\$700,000.00
	Y8 Items w/Contingency				\$4,395,855.56
	Y8 Total				\$5,095,855.56

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	Y9 - Paseo del Norte - Volcano Cliffs to Calle Nortena (Segment Length = 3370')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	9,000	\$675,000.00
	Curb & Gutter	LF	20.50	6,740	\$138,170.00
	Items				\$813,170.00
	35% Contingency				\$284,609.50
	Subtotal				\$1,097,779.50
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	0	\$0.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	0	\$0.00
	Base Course 6"	SY	7.00	0	\$0.00
	OGFC	SY	3.70	0	\$0.00
	HMA 6"	SY	25.00	0	\$0.00
	Curb & Gutter, Standard	LF	20.50	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	22,541.69	1	\$22,541.69
	Construction Surveying	1.50%	22,541.69	1	\$22,541.69
	Construction Mobilization	6.00%	90,166.77	1	\$90,166.77
	Construction Traffic Control	8.00%	120,222.36	1	\$120,222.36
	NPDES Permitting	1.00%	15,027.80	1	\$15,027.80
	Items				\$278,500.31
	Subtotal				\$278,500.31
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	1	\$300,000.00
	New Minor Signal	EA	250,000.00	0	\$0.00
	Existing Signal Modifications	EA	100,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$300,000.00
	35% Contingency				\$105,000.00
	Subtotal				\$405,000.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	350,000.00	0.00	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
	Y9 Items w/Contingency				\$1,781,279.81
	Y9 Total				\$1,781,279.81

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	Y10 - Paseo del Norte- Calle Nortena to Golf Course (Segment Length = 4310')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	11,500	\$862,500.00
	Curb & Gutter	LF	20.50	8,620	\$176,710.00
	Items				\$1,039,210.00
	35% Contingency				\$363,723.50
	Subtotal				\$1,402,933.50
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	1	\$300,000.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$300,000.00
	35% Contingency				\$105,000.00
	Subtotal				\$405,000.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	500	\$24,000.00
	Station Furniture	EA	2,500.00	1	\$2,500.00
	Items				\$26,500.00
	35% Contingency				\$9,275.00
	Subtotal				\$35,775.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Landscaping Relocation	EA	50,000.00	1	\$50,000.00
	Base Course 6"	SY	7.00	0	\$0.00
	OGFC	SY	3.70	0	\$0.00
	HMA 6"	SY	25.00	0	\$0.00
	Curb & Gutter, Standard	LF	20.50	0	\$0.00
	Items				\$50,000.00
	35% Contingency				\$17,500.00
	Subtotal				\$67,500.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	35,080.63	1	\$35,080.63
	Construction Surveying	1.50%	35,080.63	1	\$35,080.63
	Construction Mobilization	6.00%	140,322.51	1	\$140,322.51
	Construction Traffic Control	8.00%	187,096.68	1	\$187,096.68
	NPDES Permitting	1.00%	23,387.09	1	\$23,387.09
	Items				\$428,967.53
	Subtotal				\$428,967.53
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	0	\$0.00
	Existing Signal Modifications	EA	100,000.00	1	\$100,000.00
	Bus Priority Modification	EA	50,000.00	1	\$50,000.00
	Items				\$150,000.00
	35% Contingency				\$52,500.00
	Subtotal				\$202,500.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	1	\$30,000.00
	Items				\$30,000.00
	Subtotal				\$30,000.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	1	\$30,000.00
	Items				\$30,000.00
	Subtotal				\$30,000.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	300,000.00	0.55	\$165,000.00
	Items				\$165,000.00
	Subtotal				\$165,000.00
	Y10 Items w/Contingency				\$2,602,676.03
	Y10 Total				\$2,767,676.03

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	Y11 - Paseo del Norte - Golf Course to Eagle Ranch (Segment Length = 4000')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	10,700	\$802,500.00
	Curb & Gutter	LF	20.50	8,000	\$164,000.00
	Items				\$966,500.00
	35% Contingency				\$338,275.00
	Subtotal				\$1,304,775.00
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	1	\$300,000.00
	Park & Ride	Acre	75,000.00	7.6	\$570,000.00
	Items				\$870,000.00
	35% Contingency				\$304,500.00
	Subtotal				\$1,174,500.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	2,700	\$40,500.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	1	\$2,500.00
	Items				\$43,000.00
	35% Contingency				\$15,050.00
	Subtotal				\$58,050.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	3,500	\$7,000.00
	Base Course 6"	SY	7.00	3,500	\$24,500.00
	OGFC	SY	3.70	3,500	\$12,950.00
	HMA 6"	SY	25.00	3,500	\$87,500.00
	Curb & Gutter, Standard	LF	20.50	2,500	\$51,250.00
	Items				\$183,200.00
	35% Contingency				\$64,120.00
	Subtotal				\$247,320.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	127,157.18	1	\$127,157.18
	Construction Surveying	1.50%	127,157.18	1	\$127,157.18
	Construction Mobilization	6.00%	508,628.70	1	\$508,628.70
	Construction Traffic Control	8.00%	678,171.60	1	\$678,171.60
	NPDES Permitting	1.00%	84,771.45	1	\$84,771.45
	Items				\$1,533,886.10
	Subtotal				\$1,533,886.10
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	1	\$250,000.00
	Existing Signal Modifications	EA	100,000.00	2	\$200,000.00
	Bus Priority Modification	EA	50,000.00	2	\$100,000.00
	Items				\$550,000.00
	35% Contingency				\$192,500.00
	Subtotal				\$742,500.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	1	\$30,000.00
	Items				\$30,000.00
	Subtotal				\$30,000.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	1	\$30,000.00
	Items				\$30,000.00
	Subtotal				\$30,000.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	600,000.00	8.15	\$4,890,000.00
	Items				\$4,890,000.00
	Subtotal				\$4,890,000.00
	Y11 Items w/Contingency				\$5,121,031.10
	Y11 Total				\$10,011,031.10

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	Y12 - Paseo del Norte - Eagle Ranch to Coors Blvd. (Segment Length = 2750')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	4,000	\$300,000.00
	Curb & Gutter	LF	20.50	5,500	\$112,750.00
	Bridge Over Coors	SF	150.00	30,600	\$4,590,000.00
	Items				\$5,002,750.00
	35% Contingency				\$1,750,962.50
	Subtotal				\$6,753,712.50
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	200,000.00	0	\$0.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	2,700	\$40,500.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	0	\$0.00
	Items				\$40,500.00
	35% Contingency				\$14,175.00
	Subtotal				\$54,675.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	1,000	\$2,000.00
	Base Course 6"	SY	7.00	1,000	\$7,000.00
	OGFC	SY	3.70	1,000	\$3,700.00
	HMA 6"	SY	25.00	1,000	\$25,000.00
	Curb & Gutter, Standard	LF	20.50	1,000	\$20,500.00
	Items				\$58,200.00
	35% Contingency				\$20,370.00
	Subtotal				\$78,570.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	123,329.36	1	\$123,329.36
	Construction Surveying	1.50%	123,329.36	1	\$123,329.36
	Construction Mobilization	6.00%	493,317.45	1	\$493,317.45
	Construction Traffic Control	8.00%	657,756.60	1	\$657,756.60
	NPDES Permitting	1.00%	82,219.58	1	\$82,219.58
	Items				\$1,487,952.35
	Subtotal				\$1,487,952.35
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	2	\$500,000.00
	Existing Signal Modifications	EA	100,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$500,000.00
	35% Contingency				\$175,000.00
	Subtotal				\$675,000.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	600,000.00	1.10	\$660,000.00
	Items				\$660,000.00
	Subtotal				\$660,000.00
	Y12 Items w/Contingency				\$9,049,909.85
	Y12 Total				\$9,709,909.85
	Yellow Route Total Items				\$41,621,027.89
	Yellow Route Total Items w/ ROW				\$55,696,027.89

Estimate of Probable Construction Costs
Paseo del Norte
High Capacity Transit Study
Brown Route
January 23, 2014

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	B1 - Paseo del Norte - Coors to 4th St. (Excluding River Bridge) (Segment Length =11560')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	29,210	\$2,190,750.00
	CWB	LF	64.00	20,220	\$1,294,080.00
	Changes to Chamisal Lateral Crossing	SF	80.00	600	\$48,000.00
	Items				\$3,532,830.00
	35% Contingency				\$1,236,490.50
	Subtotal				\$4,769,320.50
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	200,000.00	0	\$0.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	1,000	\$2,000.00
	Base Course 6"	SY	7.00	1,000	\$7,000.00
	OGFC	SY	3.70	1,000	\$3,700.00
	HMA 6"	SY	25.00	1,000	\$25,000.00
	Curb & Gutter, Standard	LF	20.50	400	\$8,200.00
	Items				\$45,900.00
	35% Contingency				\$16,065.00
	Subtotal				\$61,965.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	82,594.28	1	\$82,594.28
	Construction Surveying	1.50%	82,594.28	1	\$82,594.28
	Construction Mobilization	6.00%	330,377.13	1	\$330,377.13
	Construction Traffic Control	2.00%	110,125.71	1	\$110,125.71
	NPDES Permitting	1.00%	55,062.86	1	\$55,062.86
	Items				\$668,754.26
	Subtotal				\$668,754.26
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	2	\$500,000.00
	Existing Signal Modifications	EA	100,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$500,000.00
	35% Contingency				\$175,000.00
	Subtotal				\$675,000.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
	Land Acquisition	Acre	500,000.00	0.00	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
	B1 Items w/Contingency				\$6,175,039.76
	B1 Total w/ROW				\$6,175,039.76

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	B2 - Paseo del Norte - Bridge over Rio Grande River (Separate Bridge Option) (Segment Length = 1450')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	0	\$0.00
	Bridge over Rio Grande	SF	120.00	46,400.00	\$5,568,000.00
	Items				\$5,568,000.00
	35% Contingency				\$1,948,800.00
	Subtotal				\$7,516,800.00
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	0	\$0.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	0	\$0.00
	Base Course 6"	SY	7.00	0	\$0.00
	OGFC	SY	3.70	0	\$0.00
	HMA 6"	SY	25.00	0	\$0.00
	Curb & Gutter, Standard	LF	20.50	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	112,752.00	1	\$112,752.00
	Construction Surveying	1.50%	112,752.00	1	\$112,752.00
	Construction Mobilization	6.00%	451,008.00	1	\$451,008.00
	Construction Traffic Control	2.00%	150,336.00	1	\$150,336.00
	NPDES Permitting	1.00%	75,168.00	1	\$75,168.00
	Items				\$910,016.00
	Subtotal				\$910,016.00
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	0	\$0.00
	Existing Signal Modifications	EA	100,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	500,000.00	0.00	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
	B2 Items w/Contingency				\$8,426,816.00
	B2 Total w/ROW				\$8,426,816.00

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	B3 - 4th St. - Paseo del Norte to El Pueblo (Segment Length = 580')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	0	\$0.00
	Curb & Gutter	LF	20.50	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	0	\$0.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	1,000	\$2,000.00
	Base Course 6"	SY	7.00	1,000	\$7,000.00
	OGFC	SY	3.70	1,000	\$3,700.00
	HMA 6"	SY	25.00	1,000	\$25,000.00
	Curb & Gutter, Standard	LF	20.50	400	\$8,200.00
	Items				\$45,900.00
	35% Contingency				\$16,065.00
	Subtotal				\$61,965.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	5,991.98	1	\$5,991.98
	Construction Surveying	1.50%	5,991.98	1	\$5,991.98
	Construction Mobilization	6.00%	23,967.90	1	\$23,967.90
	Construction Traffic Control	8.00%	31,957.20	1	\$31,957.20
	NPDES Permitting	1.00%	3,994.65	1	\$3,994.65
	Items				\$79,903.70
	Subtotal				\$79,903.70
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	1	\$250,000.00
	Existing Signal Modifications	EA	100,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$250,000.00
	35% Contingency				\$87,500.00
	Subtotal				\$337,500.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	650,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
	B3 Items w/Contingency				\$479,368.70
	B3 Total w/ROW				\$479,368.70

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	B4 - El Pueblo Rd. - 4th St. to Las Lomas				
					(Segment Length = 6900')
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	18,400	\$1,380,000.00
	Curb & Gutter	LF	20.50	0	\$0.00
	Items				\$1,380,000.00
	35% Contingency				\$483,000.00
	Subtotal				\$1,863,000.00
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	200,000.00	4	\$800,000.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$800,000.00
	35% Contingency				\$280,000.00
	Subtotal				\$1,080,000.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	300	\$4,500.00
	Sidewalk 4"	SY	48.00	9,400	\$451,200.00
	Station Furniture	EA	2,500.00	4	\$10,000.00
	Items				\$465,700.00
	35% Contingency				\$162,995.00
	Subtotal				\$628,695.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	27,600	\$55,200.00
	Base Course 6"	SY	7.00	27,600	\$193,200.00
	OGFC	SY	3.70	27,600	\$102,120.00
	HMA 6"	SY	25.00	27,600	\$690,000.00
	Curb & Gutter, Standard	LF	20.50	14,000	\$287,000.00
	Items				\$1,327,520.00
	35% Contingency				\$464,632.00
	Subtotal				\$1,792,152.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	99,245.21	1	\$99,245.21
	Construction Surveying	1.50%	99,245.21	1	\$99,245.21
	Construction Mobilization	6.00%	396,980.82	1	\$396,980.82
	Construction Traffic Control	8.00%	529,307.76	1	\$529,307.76
	NPDES Permitting	1.00%	66,163.47	1	\$66,163.47
	Items				\$1,198,942.46
	Subtotal				\$1,198,942.46
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	3	\$750,000.00
	Existing Signal Modifications	EA	150,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$750,000.00
	35% Contingency				\$262,500.00
	Subtotal				\$1,012,500.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	4	\$120,000.00
	Items				\$120,000.00
	Subtotal				\$120,000.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	4	\$120,000.00
	Items				\$120,000.00
	Subtotal				\$120,000.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	350,000.00	0.00	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
	B4 Items w/Contingency				\$7,815,289.46
	B4 Total w/ROW				\$7,815,289.46

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	B5 - El Pueblo Rd. - Las Lomas to Jefferson - Mixed Flow (Segment Length = 7115')				
10.02	Guideway : At Grade Semi-Exclusive				
	Subgrade Prep. 12"	SY	2.00	19,000	\$38,000.00
	Base Course 6"	SY	7.00	19,000	\$133,000.00
	OGFC	SY	3.70	19,000	\$70,300.00
	HMA 6"	SY	25.00	19,000	\$475,000.00
	Curb & Gutter, Standard	LF	20.50	14,000	\$287,000.00
	Items				\$1,003,300.00
	35% Contingency				\$351,155.00
	Subtotal				\$1,354,455.00
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	300,000.00	0	\$0.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	3,120	\$36,825.00
	Sidewalk 4"	SY	48.00	0	\$0.00
	Station Furniture	EA	2,500.00	0	\$0.00
	Items				\$36,825.00
	35% Contingency				\$12,888.75
	Subtotal				\$49,713.75
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	0	\$0.00
	Base Course 6"	SY	7.00	0	\$0.00
	OGFC	SY	3.70	0	\$0.00
	HMA 6"	SY	25.00	0	\$0.00
	Curb & Gutter, Standard	LF	20.50	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	21,062.53	1	\$21,062.53
	Construction Surveying	1.50%	21,062.53	1	\$21,062.53
	Construction Mobilization	6.00%	84,250.13	1	\$84,250.13
	Construction Traffic Control	8.00%	112,333.50	1	\$112,333.50
	NPDES Permitting	1.00%	14,041.69	1	\$14,041.69
	Items				\$260,750.38
	Subtotal				\$260,750.38
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	0	\$0.00
	Existing Signal Modifications	EA	100,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	0	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	350,000.00	0.00	\$0.00
	Items				\$0.00
	Subtotal				\$0.00
	B5 Items w/Contingency				\$1,664,919.13
	B5 Total w/ROW				\$1,664,919.13
	Brown Route Total Items				\$24,561,433.05
	Brown Route Total Items w/ROW				\$24,561,433.05

Estimate of Probable Construction Costs
Paseo del Norte
High Capacity Transit Study
Blue Route
January 23, 2014

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	SECTION B1 - Jefferson St. - Lang/Tiburon to Masthead (Build Length = 869')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	2,130	\$159,750.00
	Curb & Gutter	LF	20.50	1,250	\$25,625.00
	Items				\$185,375.00
	35% Contingency				\$64,881.25
	Subtotal				\$250,256.25
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	200,000.00	2	\$400,000.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$400,000.00
	35% Contingency				\$140,000.00
	Subtotal				\$540,000.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	600	\$28,800.00
	Station Furniture	EA	2,500.00	2	\$5,000.00
	Items				\$33,800.00
	35% Contingency				\$11,830.00
	Subtotal				\$45,630.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	0	\$0.00
	Base Course 6"	SY	7.00	0	\$0.00
	OGFC	SY	3.70	0	\$0.00
	HMA 6"	SY	25.00	0	\$0.00
	Curb & Gutter, Standard	LF	20.50	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	22,370.79	1	\$22,370.79
	Construction Surveying	1.50%	22,370.79	1	\$22,370.79
	Construction Mobilization	6.00%	89,483.18	1	\$89,483.18
	Construction Traffic Control	4.00%	59,655.45	1	\$59,655.45
	NPDES Permitting	1.00%	14,913.86	1	\$14,913.86
	Items				\$216,794.08
	Subtotal				\$216,794.08
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	1	\$250,000.00
	Existing Signal Modifications	EA	100,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$250,000.00
	35% Contingency				\$87,500.00
	Subtotal				\$337,500.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	2	\$60,000.00
	Items				\$60,000.00
	Subtotal				\$60,000.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	2	\$60,000.00
	Items				\$60,000.00
	Subtotal				\$60,000.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	1,100,000.00	0.18	\$198,000.00
	Items				\$198,000.00
	Subtotal				\$198,000.00
	B1 Items w/Contingency				\$1,510,180.33
	B1 Total w/ROW				\$1,708,180.33

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	SECTION B2 - Jefferson St. - Masthead to Ellison				(Build Length = 580')
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	1,420	\$106,500.00
	Curb & Gutter	LF	20.50	1,050	\$21,525.00
	Items				\$128,025.00
	35% Contingency				\$44,808.75
	Subtotal				\$172,833.75
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	200,000.00	2	\$400,000.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$400,000.00
	35% Contingency				\$140,000.00
	Subtotal				\$540,000.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	600	\$28,800.00
	Station Furniture	EA	2,500.00	0	\$0.00
	Items				\$28,800.00
	35% Contingency				\$10,080.00
	Subtotal				\$38,880.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	0	\$0.00
	Base Course 6"	SY	7.00	0	\$0.00
	OGFC	SY	3.70	0	\$0.00
	HMA 6"	SY	25.00	0	\$0.00
	Curb & Gutter, Standard	LF	20.50	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	22,098.21	1	\$22,098.21
	Construction Surveying	1.50%	22,098.21	1	\$22,098.21
	Construction Mobilization	6.00%	88,392.83	1	\$88,392.83
	Construction Traffic Control	4.00%	58,928.55	1	\$58,928.55
	NPDES Permitting	1.00%	14,132.14	1	\$14,132.14
	Items				\$213,649.93
	Subtotal				\$213,649.93
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	1	\$250,000.00
	Existing Signal Modifications	EA	100,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$250,000.00
	35% Contingency				\$87,500.00
	Subtotal				\$337,500.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	2	\$60,000.00
	Items				\$60,000.00
	Subtotal				\$60,000.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	2	\$60,000.00
	Items				\$60,000.00
	Subtotal				\$60,000.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	1,100,000.00	0.24	\$264,000.00
	Items				\$264,000.00
	Subtotal				\$264,000.00
	B2 Items w/Contingency				\$1,422,863.68
	B2 Total w/ROW				\$1,686,863.68

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	SECTION B3 - Jefferson St. - Ellison to Osuna (Build Length = 470')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	1,150	\$86,250.00
	Curb & Gutter	LF	20.50	850	\$17,425.00
	Items				\$103,675.00
	35% Contingency				\$36,286.25
	Subtotal				\$139,961.25
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	200,000.00	2	\$400,000.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$400,000.00
	35% Contingency				\$140,000.00
	Subtotal				\$540,000.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	470	\$22,560.00
	Station Furniture	EA	2,500.00	2	\$5,000.00
	Items				\$27,560.00
	35% Contingency				\$9,646.00
	Subtotal				\$37,206.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	0	\$0.00
	Base Course 6"	SY	7.00	0	\$0.00
	OGFC	SY	3.70	0	\$0.00
	HMA 6"	SY	25.00	0	\$0.00
	Curb & Gutter, Standard	LF	20.50	100	\$2,050.00
	Items				\$2,050.00
	35% Contingency				\$717.50
	Subtotal				\$2,767.50
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	22,139.02	1	\$22,139.02
	Construction Surveying	1.50%	22,139.02	1	\$22,139.02
	Construction Mobilization	6.00%	88,556.09	1	\$88,556.09
	Construction Traffic Control	8.00%	118,074.78	1	\$118,074.78
	NPDES Permitting	1.00%	14,759.35	1	\$14,759.35
	Items				\$273,668.26
	Subtotal				\$273,668.26
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	1	\$300,000.00
	New Minor Signal	EA	250,000.00	0	\$0.00
	Existing Signal Modifications	EA	150,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$300,000.00
	35% Contingency				\$105,000.00
	Subtotal				\$405,000.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	2	\$60,000.00
	Items				\$60,000.00
	Subtotal				\$60,000.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	2	\$60,000.00
	Items				\$60,000.00
	Subtotal				\$60,000.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	1,100,000.00	0.21	\$231,000.00
	Items				\$231,000.00
	Subtotal				\$231,000.00
	B3 Items w/Contingency				\$1,518,603.01
	B3 Total w/ROW				\$1,749,603.01

ITEM NUMBER	LONG DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
	SECTION B4 - Jefferson St. - Osuna to I-25 (Build Length = 785')				
10.02	Guideway : At Grade Semi-Exclusive				
	Concrete Pavement 8"	SY	75.00	1,920	\$144,000.00
	Curb & Gutter	LF	20.50	800	\$16,400.00
	Items				\$160,400.00
	35% Contingency				\$56,140.00
	Subtotal				\$216,540.00
20.01	At-Grade station, stop, shelter, mall, terminal, platform				
	Station Platform and Shelter	EA	200,000.00	2	\$400,000.00
	Park & Ride	Acre	75,000.00	0.0	\$0.00
	Items				\$400,000.00
	35% Contingency				\$140,000.00
	Subtotal				\$540,000.00
40.06	Pedestrian/bike access and accommodation, landscaping				
	Asphalt Trail - 12'	SY	15.00	0	\$0.00
	Sidewalk 4"	SY	48.00	270	\$12,960.00
	Station Furniture	EA	2,500.00	0	\$0.00
	Items				\$12,960.00
	35% Contingency				\$4,536.00
	Subtotal				\$17,496.00
40.07	Automobile, bus, van accessways including roads, parking lots				
	Subgrade Prep. 12"	SY	2.00	0	\$0.00
	Base Course 6"	SY	7.00	0	\$0.00
	OGFC	SY	3.70	0	\$0.00
	HMA 6"	SY	25.00	0	\$0.00
	Curb & Gutter, Standard	LF	20.50	0	\$0.00
	Items				\$0.00
	35% Contingency				\$0.00
	Subtotal				\$0.00
40.08	Temporary facilities and other indirect costs during construction				
	Field Office	EA	8,000.00	1	\$8,000.00
	Construction Staking	1.50%	20,618.04	1	\$20,618.04
	Construction Surveying	1.50%	20,618.04	1	\$20,618.04
	Construction Mobilization	6.00%	82,472.16	1	\$82,472.16
	Construction Traffic Control	8.00%	109,962.88	1	\$109,962.88
	NPDES Permitting	1.00%	13,745.36	1	\$13,745.36
	Items				\$255,416.48
	Subtotal				\$255,416.48
50.02	Traffic Signals and crossing protection				
	New Major Signal	EA	300,000.00	0	\$0.00
	New Minor Signal	EA	250,000.00	1	\$250,000.00
	Existing Signal Modifications	EA	150,000.00	0	\$0.00
	Bus Priority Modification	EA	50,000.00	0	\$0.00
	Items				\$250,000.00
	35% Contingency				\$87,500.00
	Subtotal				\$337,500.00
50.05	Communications				
	Passenger information systems; etc. (per platform)	EA	30,000.00	2	\$60,000.00
	Items				\$60,000.00
	Subtotal				\$60,000.00
50.06	Fare collections system and equipment				
	Fare collection system (per platform)	EA	30,000.00	2	\$60,000.00
	Items				\$60,000.00
	Subtotal				\$60,000.00
60.01	Purchase or lease of real estate				
	Land Acquisition	Acre	1,100,000.00	0.13	\$143,000.00
	Items				\$143,000.00
	Subtotal				\$143,000.00
	B4 Items w/Contingency				\$1,486,952.48
	B4 Total w/ROW				\$1,629,952.48
	Blue Route Total Items				\$5,938,599.49
	Blue Route Total Items w/ROW				\$6,774,599.49

#	Standard Cost Category Items	CATEGORY TOTAL
10	Guideway : At Grade Semi-Exclusive	\$33,763,800
20	At-Grade station, stop, shelter, mall, terminal, platform	\$8,680,500
30	Yard, Shops, Support Facilities	\$0
40	Pedestrian/bike access and accommodation, landscaping	\$20,241,800
50	Systems (ITS, control systems for buses, AVL, etc.)	\$9,435,000
60	Purchase or lease of real estate	\$14,900,000
70	Vehicles	\$12,000,000
80	Professional Services	\$6,000,000
90	Unallocated Contingency	
100	Finance Charges	
Total Project Cost		\$105,021,100