

Tranvía de Carolina Light Rail Project - ALT. 1 COST SUMMARY

ELEMENT	LINE	STATION	INDIRECT COSTS	NET INDIRECT COSTS	CONTINGENCY	RIGHT-OF-WAY	TOTAL COST	REMARKS
PLATE 1	\$9,345,520.00	\$500,000.00	\$5,907,312.00	\$2,953,656.00	\$2,953,656.00	\$0.00	\$15,752,832.00	
PLATE 2 Alt. 1	\$12,384,400.00	\$750,000.00	\$7,880,640.00	\$3,940,320.00	\$3,940,320.00	\$2,514,000.00	\$23,529,040.00	
PLATE 3	\$7,799,760.00	\$0.00	\$4,679,856.00	\$2,339,928.00	\$2,339,928.00	\$0.00	\$12,479,616.00	
PLATE 4	\$8,513,760.00	\$0.00	\$5,108,256.00	\$2,554,128.00	\$2,554,128.00	\$0.00	\$13,622,016.00	
PLATE 5	\$6,459,200.00	\$0.00	\$3,875,520.00	\$1,937,760.00	\$1,937,760.00	\$0.00	\$10,334,720.00	
PLATE 6	\$13,491,320.00	\$500,000.00	\$8,394,792.00	\$4,197,396.00	\$4,197,396.00	\$150,000.00	\$22,536,112.00	
PLATE 7	\$4,537,876.00	\$0.00	\$2,722,725.60	\$1,361,362.80	\$1,361,362.80	\$630,000.00	\$7,890,601.60	
PLATE 8 Alt. 1	\$8,321,200.00	\$500,000.00	\$5,292,720.00	\$2,646,360.00	\$2,646,360.00	\$1,020,000.00	\$15,133,920.00	
PLATE 9 Alt. 1	\$16,096,100.00	\$0.00	\$9,657,660.00	\$4,828,830.00	\$4,828,830.00	\$480,000.00	\$26,233,760.00	
PLATE 15	\$13,528,640.00	\$750,000.00	\$8,567,184.00	\$4,283,592.00	\$4,283,592.00	\$500,000.00	\$23,345,824.00	
PLATE 16	\$14,661,520.00	\$1,250,000.00	\$9,546,912.00	\$4,773,456.00	\$4,773,456.00	\$8,600,000.00	\$34,058,432.00	
PLATE 17	\$8,554,480.00	\$750,000.00	\$5,582,688.00	\$2,791,344.00	\$2,791,344.00	\$280,000.00	\$15,167,168.00	
PLATE 18	\$14,170,000.00	\$500,000.00	\$8,802,000.00	\$4,401,000.00	\$4,401,000.00	\$200,000.00	\$23,672,000.00	
PLATE 19	\$11,597,580.00	\$500,000.00	\$7,258,548.00	\$3,629,274.00	\$3,629,274.00	\$3,000,000.00	\$22,356,128.00	
PLATE 20	\$13,373,040.00	\$750,000.00	\$8,473,824.00	\$4,236,912.00	\$4,236,912.00	\$1,800,000.00	\$24,396,864.00	
PLATE 21	\$13,132,300.00	\$500,000.00	\$8,179,380.00	\$4,089,690.00	\$4,089,690.00	\$0.00	\$21,811,680.00	
PLATE 22	\$11,609,760.00	\$0.00	\$6,965,856.00	\$3,482,928.00	\$3,482,928.00	\$0.00	\$18,575,616.00	
PLATE 23	\$12,277,400.00	\$1,250,000.00	\$8,116,440.00	\$4,058,220.00	\$4,058,220.00	\$1,250,000.00	\$22,893,840.00	
PLATE 24	\$10,085,860.00	\$1,250,000.00	\$6,801,516.00	\$3,400,758.00	\$3,400,758.00	\$0.00	\$18,137,376.00	
PLATE 25	\$12,412,380.00	\$1,500,000.00	\$8,347,428.00	\$6,409,668.00	\$1,937,760.00	\$1,250,000.00	\$23,509,808.00	
PLATE 26	\$11,271,500.00	\$750,000.00	\$7,212,900.00	\$3,606,450.00	\$3,606,450.00	\$500,000.00	\$19,734,400.00	
PLATE 27	\$3,072,360.00	\$750,000.00	\$2,293,416.00	\$1,146,708.00	\$1,146,708.00	\$1,500,000.00	\$7,615,776.00	
Route 1 Subtotal	\$236,695,956.00	\$12,750,000.00	\$149,667,573.60	\$77,069,740.80	\$72,597,832.80	\$23,674,000.00	\$422,787,529.60	
PLATE 10	\$14,669,160.00	\$1,000,000.00	\$9,401,496.00	\$4,700,748.00	\$4,700,748.00	\$3,412,500.00	\$28,483,156.00	
PLATE 11	\$13,895,140.00	\$500,000.00	\$8,637,084.00	\$4,318,542.00	\$4,318,542.00	\$1,000,000.00	\$24,032,224.00	
PLATE 12	\$15,581,740.00	\$2,500,000.00	\$10,849,044.00	\$5,424,522.00	\$5,424,522.00	\$3,500,000.00	\$32,430,784.00	
PLATE 13	\$9,333,540.00	\$500,000.00	\$5,900,124.00	\$2,950,062.00	\$2,950,062.00	\$900,000.00	\$16,633,664.00	
PLATE 14	\$2,943,800.00	\$500,000.00	\$2,066,280.00	\$1,033,140.00	\$1,033,140.00	\$0.00	\$5,510,080.00	
Route 2 Subtotal	\$56,423,380.00	\$5,000,000.00	\$36,854,028.00	\$18,427,014.00	\$18,427,014.00	\$8,812,500.00	\$107,089,908.00	
LINE SUBTOTAL	\$293,119,336.00	\$17,750,000.00	\$186,521,601.60	\$95,496,754.80	\$91,024,846.80	\$32,486,500.00	\$529,877,437.60	
MAINTENANCE FACILITY and EQUIPMENT		16,650,000.00	9,990,000.00	4,995,000.00	4,995,000.00	23,950,000.00	\$50,590,000.00	
ADMINISTRATIVE and CENTRAL CONTROL FACILITY and EQUIPMENT		4,225,000.00	2,535,000.00	1,267,500.00	1,267,500.00	0.00	\$6,760,000.00	
ROLLING STOCK (Train Cars)		85,000,000.00	0.00		0.00	0.00	\$85,000,000.00	
TOTAL	\$293,119,336.00	\$123,625,000.00	\$199,046,601.60	\$101,759,254.80	\$97,287,346.80	\$56,436,500.00	\$672,227,437.60	

Tranvia de Carolina Light Rail Project - ALT. 2 COST SUMMARY

ELEMENT	LINE	STATION	INDIRECT COSTS	NET INDIRECT COSTS	CONTINGENCY	RIGHT-OF-WAY	TOTAL COST	REMARKS
PLATE 2 Alt. 2	\$6,026,960.00	\$750,000.00	\$4,066,176.00	\$2,033,088.00	\$2,033,088.00	\$2,514,000.00	\$13,357,136.00	
PLATE 3	\$7,799,760.00	\$0.00	\$4,679,856.00	\$2,339,928.00	\$2,339,928.00	\$0.00	\$12,479,616.00	
PLATE 4	\$8,513,760.00	\$0.00	\$5,108,256.00	\$2,768,328.00	\$2,339,928.00	\$0.00	\$13,622,016.00	
PLATE 5	\$6,459,200.00	\$0.00	\$3,875,520.00	\$1,937,760.00	\$1,937,760.00	\$0.00	\$10,334,720.00	
PLATE 6	\$13,491,320.00	\$500,000.00	\$8,394,792.00	\$4,197,396.00	\$4,197,396.00	\$150,000.00	\$22,536,112.00	
PLATE 7	\$4,537,876.00	\$0.00	\$2,722,725.60	\$1,361,362.80	\$1,361,362.80	\$630,000.00	\$7,890,601.60	
PLATE 8 Alt. 2	\$9,604,200.00	\$500,000.00	\$6,062,520.00	\$3,031,260.00	\$3,031,260.00	\$1,020,000.00	\$17,186,720.00	
PLATE 28	\$5,520,160.00	\$0.00	\$3,312,096.00	\$1,656,048.00	\$1,656,048.00	\$600,000.00	\$9,432,256.00	
PLATE 29	\$16,735,800.00	\$2,250,000.00	\$11,391,480.00	\$5,695,740.00	\$5,695,740.00	\$3,500,000.00	\$33,877,280.00	
PLATE 30	\$6,572,080.00	\$500,000.00	\$4,243,248.00	\$2,121,624.00	\$2,121,624.00	\$900,000.00	\$12,215,328.00	
PLATE 31	\$4,388,840.00	\$0.00	\$2,633,304.00	\$1,316,652.00	\$1,316,652.00	\$585,000.00	\$7,607,144.00	
PLATE 32	\$5,304,880.00	\$0.00	\$3,182,928.00	\$1,591,464.00	\$1,591,464.00	\$765,000.00	\$9,252,808.00	
PLATE 33	\$5,789,840.00	\$500,000.00	\$3,773,904.00	\$1,886,952.00	\$1,886,952.00	\$742,500.00	\$10,806,244.00	
PLATE 34	\$9,837,900.00	\$750,000.00	\$6,352,740.00	\$3,176,370.00	\$3,176,370.00	\$500,000.00	\$17,440,640.00	
PLATE 35	\$11,122,040.00	\$500,000.00	\$6,973,224.00	\$3,486,612.00	\$3,486,612.00	\$70,000.00	\$18,665,264.00	
PLATE 36	\$10,221,960.00	\$750,000.00	\$6,583,176.00	\$3,291,588.00	\$3,291,588.00	\$360,000.00	\$17,915,136.00	
PLATE 37	\$9,648,680.00	\$500,000.00	\$6,089,208.00	\$3,044,604.00	\$3,044,604.00	\$150,000.00	\$16,387,888.00	
PLATE 38	\$11,164,480.00	\$750,000.00	\$7,148,688.00	\$3,574,344.00	\$3,574,344.00	\$150,000.00	\$19,213,168.00	
PLATE 21	\$13,132,300.00	\$500,000.00	\$8,179,380.00	\$4,089,690.00	\$4,089,690.00	\$0.00	\$21,811,680.00	
PLATE 22	\$11,609,760.00	\$0.00	\$6,965,856.00	\$3,482,928.00	\$3,482,928.00	\$0.00	\$18,575,616.00	
PLATE 23	\$12,277,400.00	\$1,250,000.00	\$8,116,440.00	\$4,058,220.00	\$4,058,220.00	\$1,250,000.00	\$22,893,840.00	
PLATE 24	\$10,085,860.00	\$1,250,000.00	\$6,801,516.00	\$3,400,758.00	\$3,400,758.00	\$0.00	\$18,137,376.00	
PLATE 25	\$12,412,380.00	\$1,500,000.00	\$8,347,428.00	\$4,173,714.00	\$4,173,714.00	\$1,250,000.00	\$23,509,808.00	
Route 1 Subtotal	\$212,257,436.00	\$12,750,000.00	\$135,004,461.60	\$67,716,430.80	\$67,288,030.80	\$15,136,500.00	\$375,148,397.60	
PLATE 9 Alt. 2	\$12,231,540.00	\$0.00	\$7,338,924.00	\$3,669,462.00	\$3,669,462.00	\$0.00	\$19,570,464.00	
PLATE 10	\$14,669,160.00	\$1,000,000.00	\$9,401,496.00	\$4,700,748.00	\$4,700,748.00	\$3,412,500.00	\$28,483,156.00	
PLATE 11	\$13,895,140.00	\$500,000.00	\$8,637,084.00	\$4,318,542.00	\$4,318,542.00	\$1,000,000.00	\$24,032,224.00	
PLATE 12	\$15,581,740.00	\$2,500,000.00	\$10,849,044.00	\$5,424,522.00	\$5,424,522.00	\$3,500,000.00	\$32,430,784.00	
PLATE 13	\$9,333,540.00	\$500,000.00	\$5,900,124.00	\$2,950,062.00	\$2,950,062.00	\$900,000.00	\$16,633,664.00	
PLATE 14	\$2,943,800.00	\$500,000.00	\$2,066,280.00	\$1,033,140.00	\$1,033,140.00	\$0.00	\$5,510,080.00	
Route 2 Subtotal	\$68,654,920.00	\$5,000,000.00	\$44,192,952.00	\$22,096,476.00	\$22,096,476.00	\$8,812,500.00	\$126,660,372.00	
LINE SUBTOTAL	\$280,912,356.00	\$17,750,000.00	\$179,197,413.60	\$89,812,906.80	\$89,384,506.80	\$23,949,000.00	\$501,808,769.60	
MAINTENANCE FACILITY and EQUIPMENT		16,650,000.00	9,990,000.00	4,995,000.00	4,995,000.00	23,950,000.00	\$50,590,000.00	
ADMINISTRATIVE and CENTRAL CONTROL FACILITY and EQUIPMENT		4,225,000.00	2,535,000.00	1,267,500.00	1,267,500.00	0.00	\$6,760,000.00	
ROLLING STOCK (Train Cars)		85,000,000.00	0.00			0.00	\$85,000,000.00	
TOTAL	\$280,912,356.00	\$123,625,000.00	\$191,722,413.60	\$96,075,406.80	\$95,647,006.80	\$47,899,000.00	\$644,158,769.60	

Tranvia de Carolina Light Rail Project

UNIT COSTS

ITEM	UNIT	UNIT COST
LINE SECTION		
ITEM	UNIT	UNIT COST
LINE SECTION		
Guideway		
In-Street Section (2 tracks)	LF	\$2,100
In-Street Section (1 track)	LF	\$1,550
Ballast Section (2 tracks)	LF	\$1,200
On-Structure (2 tracks)	LF	\$1,650
Embankment Section with Walls - Additive	EA	\$500,000
Special Trackwork Items	LS	
Subtotal		
Structure		
Basic	LF	\$4,800
Long Span/Level 3	LF	\$8,400
Subtotal		
Street Modification		
Minor	LF	\$300
Major	LF	\$650
Subtotal		
Systems		
Overhead Catenary System	LF	\$500
Signals	MI	\$200,000
Control System	MI	\$150,000
Communications	MI	\$75,000
Traction Power Substations	MI	\$300,000
Subtotal		
GENERAL COSTS		
Drainage	LS	3.0%
Landscaping/Streetscaping	LS	3.0%
Signing and Striping	LS	1.0%
Traffic Control	LS	2.0%
Mitigation	LS	3.0%
Utility Relocation		
None	LF	\$0
Low	LF	\$500
Moderate	LF	\$1,000
High	LF	\$1,500
Subtotal		
Traffic Signal with Preemption	EA	\$200,000
General Cost Subtotal		
LINE SUBTOTAL		
STATIONS		
Local Stations	EA	\$500,000
Hub Stations	EA	\$750,000
Intermodal Stations	EA	\$1,000,000
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA	\$1,000,000
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA	\$1,500,000
STATION SUBTOTAL		
SUBTOTAL (LINE and STATIONS)		
INDIRECT COSTS		
Mobilization	LS	3%
Design	LS	12%
Construction Management	LS	12%
Administration	LS	2%
Insurance and Legal	LS	1%
Contingency	LS	30%
Municipality Tax (not included)	LS	0%
Subtotal		
RIGHT-OF-WAY		
Residential Land	SF	\$10
Residential Improved	SF	\$25
Commercial Land	SF	\$25
Commercial Improved	SF	\$60
Government Unimproved	SF	\$5
Other / Special	SF	\$75
Station - Residential	SF	\$25
Station - Commercial	SF	\$60
Subtotal		
ROW Acquisition Process Additive @ 75% (applied to ROW Subtotal) and Contingency @ 25%	LS	100%
ROW Subtotal		
SEGMENT TOTAL		

Element	Units	Unit Cost
Box Culvert (two cell)	LF	\$2,500.00
U-channel with walls	LF	\$1,500.00
Double Track Crossover	EA	\$350,000.00
Single Track Crossover	EA	\$200,000.00
Track Junction	EA	\$250,000.00

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 1					
From: Isla Verde		To: Isla Verde			Stations:
Length: 1900 Feet		0.36 Miles			Isla Verde - East
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	1,900.00	\$2,100.00	\$3,990,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF		\$1,200.00	\$0.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA	1.00	\$500,000.00	\$500,000.00	
Special Trackwork Items	LS			\$0.00	
Subtotal				\$4,490,000.00	
Structure					
Basic	LF	0.00	\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	300.00	\$300.00	\$90,000.00	U-turn ramp
Major	LF	700	\$650.00	\$455,000.00	Ave. Isla Verde revisions
Subtotal				\$545,000.00	
Systems					
Overhead Catenary System	LF	1900.00	\$500.00	\$950,000.00	
Signals	MI	0.36	\$200,000.00	\$72,000.00	
Control System	MI	0.36	\$150,000.00	\$54,000.00	
Communications	MI	0.36	\$75,000.00	\$27,000.00	
Traction Power Substations	MI	0.36	\$300,000.00	\$108,000.00	
Subtotal				\$1,211,000.00	
Guideway Subtotal				6,246,000.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$187,380.00	
Landscaping/Streetscaping	LS		3.0%	\$187,380.00	
Signing and Striping	LS		1.0%	\$62,460.00	
Traffic Control	LS		2.0%	\$124,920.00	
Mitigation	LS		3.0%	\$187,380.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	1400.00	1,000.00	\$1,400,000.00	Balance
High	LF	500.00	1,500.00	\$750,000.00	Station area
Subtotal				\$2,150,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$3,099,520.00	
LINE SUBTOTAL				\$9,345,520.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA	0.00	\$750,000.00	\$0.00	
Intermodal Stations	EA	0.00	\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA	0	\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA	0	\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$9,845,520.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$295,365.60	
Design	LS		12.0%	\$1,181,462.40	
Construction Management	LS		12.0%	\$1,181,462.40	
Administration	LS		2.0%	\$196,910.40	
Insurance and Legal	LS		1.0%	\$98,455.20	
Contingency	LS		30.0%	\$2,953,656.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$5,907,312.00	
RIGHT-OF-WAY					
Residential Land	SF	0	10.00	\$0.00	
Residential Improved	SF	0	25.00	\$0.00	
Commercial Land	SF	0	25.00	\$0.00	
Commercial Improved	SF	0	60.00	\$0.00	
Government Unimproved	SF	0	5.00	\$0.00	
Other / Special	SF	0	75.00	\$0.00	
Station - Residential	SF	0	25.00	\$0.00	
Station - Commercial	SF	0	60.00	\$0.00	
Subtotal				\$0.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	\$0.00	
ROW Subtotal				\$0.00	

SEGMENT TOTAL				\$15,752,832.00	
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Tranvía de Carolina Light Rail Project

PLATE 2 Alt. 1	From:	Isla Verde	Stations:	Isla Verde - West	
	To:	PR-26			
	Length:	2350 Feet 0.45 Miles			
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	1,450.00	\$2,100.00	\$3,045,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	650	\$1,200.00	\$780,000.00	
On-Structure (2 tracks)	LF	250.00	\$1,650.00	\$412,500.00	
Embankment Section with Walls - Additive	EA	1.00	\$500,000.00	\$500,000.00	
Special Trackwork Items	LS		\$0.00	\$1,000,000.00	
Subtotal				\$5,737,500.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF	250.00	\$8,400.00	\$2,100,000.00	
Subtotal				\$2,100,000.00	
Street Modification					
Minor	LF	0.00	\$300.00	\$0.00	
Major	LF	0	\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	2350.00	\$500.00	\$1,175,000.00	
Signals	MI	0.45	\$200,000.00	\$90,000.00	
Control System	MI	0.45	\$150,000.00	\$67,500.00	
Communications	MI	0.45	\$75,000.00	\$33,750.00	
Traction Power Substations	MI	0.45	\$300,000.00	\$135,000.00	
Subtotal				\$1,501,250.00	
Guideway Subtotal				9,338,750.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$280,162.50	
Landscaping/Streetscaping	LS		3.0%	\$280,162.50	
Signing and Striping	LS		1.0%	\$93,387.50	
Traffic Control	LS		2.0%	\$186,775.00	
Mitigation	LS		3.0%	\$280,162.50	
Utility Relocation					
None	LF	400	0.00	\$0.00	
Low	LF	450	500.00	\$225,000.00	
Moderate	LF	1500.00	1,000.00	\$1,500,000.00	
High	LF	0.00	1,500.00	\$0.00	
Subtotal				\$1,725,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$3,045,650.00	
LINE SUBTOTAL				\$12,384,400.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$13,134,400.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$394,032.00	
Design	LS		12.0%	\$1,576,128.00	
Construction Management	LS		12.0%	\$1,576,128.00	
Administration	LS		2.0%	\$262,688.00	
Insurance and Legal	LS		1.0%	\$131,344.00	
Contingency	LS		30.0%	\$3,940,320.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$7,880,640.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF	19200	60.00	\$1,152,000.00	
Government Unimproved	SF	21000	5.00	\$105,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$1,257,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	1,257,000.00	
ROW Subtotal				2,514,000.00	

SEGMENT TOTAL				\$23,529,040.00	
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Tranvía de Carolina Light Rail Project

PLATE 2 Alt. 2	From:	Isla Verde	To:	PR-26	Stations:	Isla Verde - West
	Length:	1200 Feet 0.23 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF	300.00	\$2,100.00	\$630,000.00		
In-Street Section (1 track)	LF		\$1,550.00	\$0.00		
Ballast Section (2 tracks)	LF	650	\$1,200.00	\$780,000.00		
On-Structure (2 tracks)	LF	250.00	\$1,650.00	\$412,500.00		
Embankment Section with Walls - Additive	EA	0.00	\$500,000.00	\$0.00		
Special Trackwork Items	LS		\$0.00	\$0.00		
Subtotal				\$1,822,500.00		
Structure						
Basic	LF	0.00	\$4,800.00	\$0.00		
Long Span/Level 3	LF	250.00	\$8,400.00	\$2,100,000.00		
Subtotal				\$2,100,000.00		
Street Modification						
Minor	LF	0.00	\$300.00	\$0.00		
Major	LF	0	\$650.00	\$0.00		
Subtotal				\$0.00		
Systems						
Overhead Catenary System	LF	1200.00	\$500.00	\$600,000.00		
Signals	MI	0.23	\$200,000.00	\$46,000.00		
Control System	MI	0.23	\$150,000.00	\$34,500.00		
Communications	MI	0.23	\$75,000.00	\$17,250.00		
Traction Power Substations	MI	0.23	\$300,000.00	\$69,000.00		
Subtotal				\$766,750.00		
Guideway Subtotal				4,689,250.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$140,677.50		
Landscaping/Streetscaping	LS		3.0%	\$140,677.50		
Signing and Striping	LS		1.0%	\$46,892.50		
Traffic Control	LS		2.0%	\$93,785.00		
Mitigation	LS		3.0%	\$140,677.50		
Utility Relocation						
None	LF	400	0.00	\$0.00		
Low	LF	450	500.00	\$225,000.00		
Moderate	LF	350.00	1,000.00	\$350,000.00		
High	LF	0.00	1,500.00	\$0.00		
Subtotal				\$575,000.00		
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00		
General Cost Subtotal				\$1,337,710.00		
LINE SUBTOTAL				\$6,026,960.00		
STATIONS						
Local Stations	EA		\$500,000.00	\$0.00		
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$750,000.00		
SUBTOTAL (LINE and STATIONS)				\$6,776,960.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$203,308.80		
Design	LS		12.0%	\$813,235.20		
Construction Management	LS		12.0%	\$813,235.20		
Administration	LS		2.0%	\$135,539.20		
Insurance and Legal	LS		1.0%	\$67,769.60		
Contingency	LS		30.0%	\$2,033,088.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$4,066,176.00		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF		25.00	\$0.00		
Commercial Improved	SF	19200	60.00	\$1,152,000.00		
Government Unimproved	SF	21000	5.00	\$105,000.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$1,257,000.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	1,257,000.00		
ROW Subtotal				2,514,000.00		

SEGMENT TOTAL				\$13,357,136.00	
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Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 3					
		From: PR-26 To: PR-17 Length: 2500 Feet 0.48 Miles			Stations: None
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,500	\$1,200.00	\$3,000,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA	1.00	\$500,000.00	\$500,000.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$3,500,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	2,500.00	\$300.00	\$750,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$750,000.00	
Systems					
Overhead Catenary System	LF	2500.00	\$500.00	\$1,250,000.00	
Signals	MI	0.48	\$200,000.00	\$96,000.00	
Control System	MI	0.48	\$150,000.00	\$72,000.00	
Communications	MI	0.48	\$75,000.00	\$36,000.00	
Traction Power Substations	MI	0.48	\$300,000.00	\$144,000.00	
Subtotal				\$1,598,000.00	
Guideway Subtotal				5,848,000.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$175,440.00	
Landscaping/Streetscaping	LS		3.0%	\$175,440.00	
Signing and Striping	LS		1.0%	\$58,480.00	
Traffic Control	LS		2.0%	\$116,960.00	
Mitigation	LS		3.0%	\$175,440.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF	2500	500.00	\$1,250,000.00	
Moderate	LF	0.00	1,000.00	\$0.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$1,250,000.00	
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00	
General Cost Subtotal				\$1,951,760.00	
LINE SUBTOTAL				\$7,799,760.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
SUBTOTAL (LINE and STATIONS)				\$7,799,760.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$233,992.80	
Design	LS		12.0%	\$935,971.20	
Construction Management	LS		12.0%	\$935,971.20	
Administration	LS		2.0%	\$155,995.20	
Insurance and Legal	LS		1.0%	\$77,997.60	
Contingency	LS		30.0%	\$2,339,928.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$4,679,856.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$0.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	0.00	
ROW Subtotal				0.00	
SEGMENT TOTAL				\$12,479,616.00	

Tranvía de Carolina Light Rail Project

PLATE 4	From: PR-17 To: Los Angeles Length: 2500 Feet 0.48 Miles			Stations: None	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,350	\$1,200.00	\$2,820,000.00	
On-Structure (2 tracks)	LF	150.00	\$1,650.00	\$247,500.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS			\$350,000.00	
Subtotal				\$3,417,500.00	
Structure					
Basic	LF	150.00	\$4,800.00	\$720,000.00	
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00	
Subtotal				\$720,000.00	
Street Modification					
Minor	LF	2,500.00	\$300.00	\$750,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$750,000.00	
Systems					
Overhead Catenary System	LF	2500.00	\$500.00	\$1,250,000.00	
Signals	MI	0.48	\$200,000.00	\$96,000.00	
Control System	MI	0.48	\$150,000.00	\$72,000.00	
Communications	MI	0.48	\$75,000.00	\$36,000.00	
Traction Power Substations	MI	0.48	\$300,000.00	\$144,000.00	
Subtotal				\$1,598,000.00	
Guideway Subtotal				6,485,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$194,565.00	
Landscaping/Streetscaping	LS		3.0%	\$194,565.00	
Signing and Striping	LS		1.0%	\$64,855.00	
Traffic Control	LS		2.0%	\$129,710.00	
Mitigation	LS		3.0%	\$194,565.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF	2500	500.00	\$1,250,000.00	
Moderate	LF		1,000.00	\$0.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$1,250,000.00	
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00	
General Cost Subtotal				\$2,028,260.00	
LINE SUBTOTAL				\$8,513,760.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
SUBTOTAL (LINE and STATIONS)				\$8,513,760.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$255,412.80	
Design	LS		12.0%	\$1,021,651.20	
Construction Management	LS		12.0%	\$1,021,651.20	
Administration	LS		2.0%	\$170,275.20	
Insurance and Legal	LS		1.0%	\$85,137.60	
Contingency	LS		30.0%	\$2,554,128.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$5,108,256.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$0.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	0.00	
ROW Subtotal				0.00	

SEGMENT TOTAL				\$13,622,016.00	
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Tranvía de Carolina Light Rail Project

PLATE 5	From: Los Angeles To: Los Angeles Length: 1800 Feet 0.35 Miles			Stations: None	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	75.00	\$2,100.00	\$157,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1.725	\$1,200.00	\$2,070,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - A	EA	1.00	\$500,000.00	\$500,000.00	Allowance for modification of existing raised ramp wall sections
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$2,727,500.00	
Structure					
Basic	LF	0.00	\$4,800.00	\$0.00	
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	650.00	\$300.00	\$195,000.00	
Major	LF	850	\$650.00	\$552,500.00	
Subtotal				\$747,500.00	
Systems					
Overhead Catenary System	LF	1800.00	\$500.00	\$900,000.00	
Signals	MI	0.35	\$200,000.00	\$70,000.00	
Control System	MI	0.35	\$150,000.00	\$52,500.00	
Communications	MI	0.35	\$75,000.00	\$26,250.00	
Traction Power Substations	MI	0.35	\$300,000.00	\$105,000.00	
Subtotal				\$1,153,750.00	
Guideway Subtotal				4,628,750.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$138,862.50	
Landscaping/Streetscaping	LS		3.0%	\$138,862.50	
Signing and Striping	LS		1.0%	\$46,287.50	
Traffic Control	LS		2.0%	\$92,575.00	
Mitigation	LS		3.0%	\$138,862.50	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF	1450	500.00	\$725,000.00	
Moderate	LF	350.00	1,000.00	\$350,000.00	
High	LF	0.00	1,500.00	\$0.00	
Subtotal				\$1,075,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$1,830,450.00	
LINE SUBTOTAL				\$6,459,200.00	
STATIONS					
Local Stations	EA	0.00	\$500,000.00	\$0.00	
Hub Stations	EA	0.00	\$750,000.00	\$0.00	
Intermodal Stations	EA	0.00	\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
JBTOTAL (LINE and STATIONS)				\$6,459,200.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$193,776.00	
Design	LS		12.0%	\$775,104.00	
Construction Management	LS		12.0%	\$775,104.00	
Administration	LS		2.0%	\$129,184.00	
Insurance and Legal	LS		1.0%	\$64,592.00	
Contingency	LS		30.0%	\$1,937,760.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$3,875,520.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$0.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	0.00	
ROW Subtotal				0.00	
SEGMENT TOTAL				\$10,334,720.00	

Tranvía de Carolina Light Rail Project

PLATE 6	From:	Los Angeles	To:	Channel Suarez	Stations:	Los Angeles
	Length:	2950 Feet		0.56 Miles		
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF	350.00	\$2,100.00	\$735,000.00		
In-Street Section (1 track)	LF		\$1,550.00	\$0.00		
Ballast Section (2 tracks)	LF	1,950	\$1,200.00	\$2,340,000.00		
On-Structure (2 tracks)	LF	650.00	\$1,650.00	\$1,072,500.00		
Embankment Section with Walls - Additive	EA	2.00	\$500,000.00	\$1,000,000.00		
Special Trackwork Items	LS		\$0.00	\$0.00		
Subtotal				\$5,147,500.00		
Structure						
Basic	LF	650.00	\$4,800.00	\$3,120,000.00		Ch. Suarez (400 ft);small channel (100 ft); Ave. de las Flores (150
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00		
Subtotal				\$3,120,000.00		
Street Modification						
Minor	LF	0.00	\$300.00	\$0.00		
Major	LF	0	\$650.00	\$0.00		
Subtotal				\$0.00		
Systems						
Overhead Catenary System	LF	2950.00	\$500.00	\$1,475,000.00		
Signals	MI	0.56	\$200,000.00	\$112,000.00		
Control System	MI	0.56	\$150,000.00	\$84,000.00		
Communications	MI	0.56	\$75,000.00	\$42,000.00		
Traction Power Substations	MI	0.56	\$300,000.00	\$168,000.00		
Subtotal				\$1,881,000.00		
Guideway Subtotal				10,148,500.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$304,455.00		
Landscaping/Streetscaping	LS		3.0%	\$304,455.00		
Signing and Striping	LS		1.0%	\$101,485.00		
Traffic Control	LS		2.0%	\$202,970.00		
Mitigation	LS		3.0%	\$304,455.00		
Utility Relocation						
None	LF	1000	0.00	\$0.00		
Low	LF	950	500.00	\$475,000.00		
Moderate	LF	500.00	1,000.00	\$500,000.00		
High	LF	500.00	1,500.00	\$750,000.00		
Subtotal				\$1,725,000.00		
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00		Allowance of 2 due to complexity.
General Cost Subtotal				\$3,342,820.00		
LINE SUBTOTAL				\$13,491,320.00		
STATIONS						
Local Stations	EA	1.00	\$500,000.00	\$500,000.00		
Hub Stations	EA		\$750,000.00	\$0.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$500,000.00		
SUBTOTAL (LINE and STATIONS)				\$13,991,320.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$419,739.60		
Design	LS		12.0%	\$1,678,958.40		
Construction Management	LS		12.0%	\$1,678,958.40		
Administration	LS		2.0%	\$279,826.40		
Insurance and Legal	LS		1.0%	\$139,913.20		
Contingency	LS		30.0%	\$4,197,396.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$8,394,792.00		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF		25.00	\$0.00		
Commercial Improved	SF		60.00	\$0.00		
Government Unimproved	SF	15000	5.00	\$75,000.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$75,000.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	75,000.00		
ROW Subtotal				150,000.00		
SEGMENT TOTAL				\$22,536,112.00		

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE 7	From: Channel Suarez To: Sports City Length: 2100 Feet 0.40 Miles	Stations: None			
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,100	\$1,200.00	\$2,520,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$191,675.00	
Subtotal				\$2,711,675.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	2100.00	\$500.00	\$1,050,000.00	
Signals	MI	0.40	\$200,000.00	\$80,000.00	
Control System	MI	0.40	\$150,000.00	\$60,000.00	
Communications	MI	0.40	\$75,000.00	\$30,000.00	
Traction Power Substations	MI	0.40	\$300,000.00	\$120,000.00	
Subtotal				\$1,340,000.00	
Guideway Subtotal				4,051,675.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$121,550.25	
Landscaping/Streetscaping	LS		3.0%	\$121,550.25	
Signing and Striping	LS		1.0%	\$40,516.75	
Traffic Control	LS		2.0%	\$81,033.50	
Mitigation	LS		3.0%	\$121,550.25	
Utility Relocation					
None	LF	2100	0.00	\$0.00	
Low	LF	0	500.00	\$0.00	
Moderate	LF	0.00	1,000.00	\$0.00	
High	LF	0.00	1,500.00	\$0.00	
Subtotal				\$0.00	
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00	
General Cost Subtotal				\$486,201.00	
LINE SUBTOTAL				\$4,537,876.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
SUBTOTAL (LINE and STATIONS)				\$4,537,876.00	
INDIRECT COSTS					
Mobilization	LS	0	3.0%	\$136,136.28	
Design	LS	0	12.0%	\$544,545.12	
Construction Management	LS	0	12.0%	\$544,545.12	
Administration	LS	0	2.0%	\$90,757.52	
Insurance and Legal	LS	0	1.0%	\$45,378.76	
Contingency	LS	0	30.0%	\$1,361,362.80	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$2,722,725.60	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	63000	5.00	\$315,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$315,000.00	
ROW Acquisition Process Additive @ 50% (applied to ROW Subtotal)	LS		100.0%	315,000.00	
ROW Subtotal				630,000.00	
SEGMENT TOTAL				\$7,890,601.60	

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE 8 Alt. 1	From: Sports City				Stations: Sports City
	To: Ave. El Comandante				
	Length: 3400 Feet				
	0.65 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	350.00	\$2,100.00	\$735,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	3,050	\$1,200.00	\$3,660,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$350,000.00	
Subtotal				\$4,745,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	3400.00	\$500.00	\$1,700,000.00	
Signals	MI	0.65	\$200,000.00	\$130,000.00	
Control System	MI	0.65	\$150,000.00	\$97,500.00	
Communications	MI	0.65	\$75,000.00	\$48,750.00	
Traction Power Substations	MI	0.65	\$300,000.00	\$195,000.00	
Subtotal				\$2,171,250.00	
Guideway Subtotal				6,916,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$207,487.50	
Landscaping/Streetscaping	LS		3.0%	\$207,487.50	
Signing and Striping	LS		1.0%	\$69,162.50	
Traffic Control	LS		2.0%	\$138,325.00	
Mitigation	LS		3.0%	\$207,487.50	
Utility Relocation					
None	LF	3000	0.00	\$0.00	
Low	LF	350	500.00	\$175,000.00	
Moderate	LF		1,000.00	\$0.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$175,000.00	
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00	
General Cost Subtotal				\$1,404,950.00	
LINE SUBTOTAL				\$8,321,200.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$8,821,200.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$264,636.00	
Design	LS		12.0%	\$1,058,544.00	
Construction Management	LS		12.0%	\$1,058,544.00	
Administration	LS		2.0%	\$176,424.00	
Insurance and Legal	LS		1.0%	\$88,212.00	
Contingency	LS		30.0%	\$2,646,360.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$5,292,720.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	102000	5.00	\$510,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$510,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	510,000.00	
ROW Subtotal				1,020,000.00	
SEGMENT TOTAL				\$15,133,920.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 8 Alt. 2					
From: Sports City					Stations:
To: Ave. El Comandante					Sports City
Length: 3400 Feet					
0.65 Miles					
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	350.00	\$2,100.00	\$735,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	3,050	\$1,200.00	\$3,660,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$4,395,000.00	
Structure					
Basic	LF	0.00	\$4,800.00	\$0.00	
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	3400.00	\$500.00	\$1,700,000.00	
Signals	MI	0.65	\$200,000.00	\$130,000.00	
Control System	MI	0.65	\$150,000.00	\$97,500.00	
Communications	MI	0.65	\$75,000.00	\$48,750.00	
Traction Power Substations	MI	0.65	\$300,000.00	\$195,000.00	
Subtotal				\$2,171,250.00	
Guideway Subtotal				6,566,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$196,987.50	
Landscaping/Streetscaping	LS		3.0%	\$196,987.50	
Signing and Striping	LS		1.0%	\$65,662.50	
Traffic Control	LS		2.0%	\$131,325.00	
Mitigation	LS		3.0%	\$196,987.50	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF	3000	500.00	\$1,500,000.00	
Moderate	LF	350	1,000.00	\$350,000.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$1,850,000.00	
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00	
General Cost Subtotal				\$3,037,950.00	
LINE SUBTOTAL				\$9,604,200.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$10,104,200.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$303,126.00	
Design	LS		12.0%	\$1,212,504.00	
Construction Management	LS		12.0%	\$1,212,504.00	
Administration	LS		2.0%	\$202,084.00	
Insurance and Legal	LS		1.0%	\$101,042.00	
Contingency	LS		30.0%	\$3,031,260.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$6,062,520.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	102000	5.00	\$510,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$510,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	510,000.00	
ROW Subtotal				1,020,000.00	
SEGMENT TOTAL				\$17,186,720.00	

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE 9 Alt. 1	From: Ave. Iturregui				Stations:
	To: Ave. Campo Rico				None
	Length: 2875 Feet				
	0.55 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	2,875.00	\$2,100.00	\$6,037,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF		\$1,200.00	\$0.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS			\$600,000.00	
Subtotal				\$6,637,500.00	
Structure					
Basic	LF	0.00	\$4,800.00	\$0.00	
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF	2875	\$650.00	\$1,868,750.00	
Subtotal				\$1,868,750.00	
Systems					
Overhead Catenary System	LF	2875.00	\$500.00	\$1,437,500.00	
Signals	MI	0.55	\$200,000.00	\$110,000.00	
Control System	MI	0.55	\$150,000.00	\$82,500.00	
Communications	MI	0.55	\$75,000.00	\$41,250.00	
Traction Power Substations	MI	0.55	\$300,000.00	\$165,000.00	
Subtotal				\$1,836,250.00	
Guideway Subtotal				10,342,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$310,275.00	
Landscaping/Streetscaping	LS		3.0%	\$310,275.00	
Signing and Striping	LS		1.0%	\$103,425.00	
Traffic Control	LS		2.0%	\$206,850.00	
Mitigation	LS		3.0%	\$310,275.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF	0	500.00	\$0.00	
Moderate	LF		1,000.00	\$0.00	
High	LF	2875.00	1,500.00	\$4,312,500.00	
Subtotal				\$4,312,500.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$5,753,600.00	
LINE SUBTOTAL				\$16,096,100.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
SUBTOTAL (LINE and STATIONS)				\$16,096,100.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$482,883.00	
Design	LS		12.0%	\$1,931,532.00	
Construction Management	LS		12.0%	\$1,931,532.00	
Administration	LS		2.0%	\$321,922.00	
Insurance and Legal	LS		1.0%	\$160,961.00	
Contingency	LS		30.0%	\$4,828,830.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$9,657,660.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF	4000	60.00	\$240,000.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$240,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	240,000.00	
ROW Subtotal				480,000.00	
SEGMENT TOTAL				\$26,233,760.00	

Tranvía de Carolina Light Rail Project

PLATE 9 Alt. 2	From: Ave. Iturregui To: Ave. Campo Rico Length: 2175 Feet 0.42 Miles			Stations: None	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	2,175.00	\$2,100.00	\$4,567,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF		\$1,200.00	\$0.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$456,250.00	
Subtotal				\$5,023,750.00	
Structure					
Basic	LF	0.00	\$4,800.00	\$0.00	
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF	2175	\$650.00	\$1,413,750.00	
Subtotal				\$1,413,750.00	
Systems					
Overhead Catenary System	LF	2175.00	\$500.00	\$1,087,500.00	
Signals	MI	0.42	\$200,000.00	\$84,000.00	
Control System	MI	0.42	\$150,000.00	\$63,000.00	
Communications	MI	0.42	\$75,000.00	\$31,500.00	
Traction Power Substations	MI	0.42	\$300,000.00	\$126,000.00	
Subtotal				\$1,392,000.00	
Guideway Subtotal				7,829,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$234,885.00	
Landscaping/Streetscaping	LS		3.0%	\$234,885.00	
Signing and Striping	LS		1.0%	\$78,295.00	
Traffic Control	LS		2.0%	\$156,590.00	
Mitigation	LS		3.0%	\$234,885.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF		1,000.00	\$0.00	
High	LF	2175.00	1,500.00	\$3,262,500.00	
Subtotal				\$3,262,500.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$4,402,040.00	
LINE SUBTOTAL				\$12,231,540.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
SUBTOTAL (LINE and STATIONS)				\$12,231,540.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$366,946.20	
Design	LS		12.0%	\$1,467,784.80	
Construction Management	LS		12.0%	\$1,467,784.80	
Administration	LS		2.0%	\$244,630.80	
Insurance and Legal	LS		1.0%	\$122,315.40	
Contingency	LS		30.0%	\$3,669,462.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$7,338,924.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$0.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	0.00	
ROW Subtotal				0.00	
SEGMENT TOTAL				\$19,570,464.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
PLATE 10						
		From: Ave. Campo Rico To: Ave. Monserrate Length: 3050 Feet 0.58 Miles			Stations: Ave. Campo Rico	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00		
In-Street Section (1 track)	LF	3,050.00	\$1,550.00	\$4,727,500.00		
Ballast Section (2 tracks)	LF		\$1,200.00	\$0.00		
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00		
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00		
Special Trackwork Items	LS		\$0.00	\$0.00		
Subtotal				\$4,727,500.00		
Structure						
Basic	LF		\$4,800.00	\$0.00	100 ft. @ Fragoso; 200 ft. at PR-3 NB exit ramps	
Long Span/Level 3	LF		\$8,400.00	\$0.00		
Subtotal				\$0.00		
Street Modification						
Minor	LF		\$300.00	\$0.00	Mall perimeter road.	
Major	LF	3050	\$650.00	\$1,982,500.00	PR-3 ramp	
Subtotal				\$1,982,500.00		
Systems						
Overhead Catenary System	LF	3050.00	\$500.00	\$1,525,000.00		
Signals	MI	0.58	\$200,000.00	\$116,000.00		
Control System	MI	0.58	\$150,000.00	\$87,000.00		
Communications	MI	0.58	\$75,000.00	\$43,500.00		
Traction Power Substations	MI	0.58	\$300,000.00	\$174,000.00		
Subtotal				\$1,945,500.00		
Guideway Subtotal				\$8,655,500.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$259,665.00		
Landscaping/Streetscaping	LS		3.0%	\$259,665.00		
Signing and Striping	LS		1.0%	\$86,555.00		
Traffic Control	LS		2.0%	\$173,110.00		
Mitigation	LS		3.0%	\$259,665.00		
Utility Relocation						
None	LF		0.00	\$0.00		
Low	LF		500.00	\$0.00		
Moderate	LF		1,000.00	\$0.00		
High	LF	3050.00	1,500.00	\$4,575,000.00		
Subtotal				\$4,575,000.00		
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00		
General Cost Subtotal				\$6,013,660.00		
LINE SUBTOTAL				\$14,669,160.00		
STATIONS						
Local Stations	EA	2.00	\$500,000.00	\$1,000,000.00		
Hub Stations	EA		\$750,000.00	\$0.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$1,000,000.00		
SUBTOTAL (LINE and STATIONS)				\$15,669,160.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$470,074.80		
Design	LS		12.0%	\$1,880,299.20		
Construction Management	LS		12.0%	\$1,880,299.20		
Administration	LS		2.0%	\$313,383.20		
Insurance and Legal	LS		1.0%	\$156,691.60		
Contingency	LS		30.0%	\$4,700,748.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$9,401,496.00		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF	68250	25.00	\$1,706,250.00		
Commercial Land	SF		25.00	\$0.00		
Commercial Improved	SF		60.00	\$0.00		
Government Unimproved	SF		5.00	\$0.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$1,706,250.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	1,706,250.00		
ROW Subtotal				3,412,500.00		
SEGMENT TOTAL				\$28,483,156.00		

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
PLATE 11						
		From: Ave. Monserrate To: Calle San Fernando Length: 2475 Feet 0.47 Miles			Stations: Ave. Monserrate	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF	2,475.00	\$2,100.00	\$5,197,500.00		
In-Street Section (1 track)	LF		\$1,550.00	\$0.00		
Ballast Section (2 tracks)	LF		\$1,200.00	\$0.00		
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00		
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00		
Special Trackwork Items	LS		\$0.00	\$350,000.00		
Subtotal				\$5,547,500.00		
Structure						
Basic	LF		\$4,800.00	\$0.00		
Long Span/Level 3	LF		\$8,400.00	\$0.00		
Subtotal				\$0.00		
Street Modification						
Minor	LF		\$300.00	\$0.00		
Major	LF	2475	\$650.00	\$1,608,750.00		
Subtotal				\$1,608,750.00		
Systems						
Overhead Catenary System	LF	2475.00	\$500.00	\$1,237,500.00		
Signals	MI	0.47	\$200,000.00	\$94,000.00		
Control System	MI	0.47	\$150,000.00	\$70,500.00		
Communications	MI	0.47	\$75,000.00	\$35,250.00		
Traction Power Substations	MI	0.47	\$300,000.00	\$141,000.00		
Subtotal				\$1,578,250.00		
Guideway Subtotal				8,734,500.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$262,035.00		
Landscaping/Streetscaping	LS		3.0%	\$262,035.00		
Signing and Striping	LS		1.0%	\$87,345.00		
Traffic Control	LS		2.0%	\$174,690.00		
Mitigation	LS		3.0%	\$262,035.00		
Utility Relocation						
None	LF		0.00	\$0.00		
Low	LF		500.00	\$0.00		
Moderate	LF		1,000.00	\$0.00		
High	LF	2475.00	1,500.00	\$3,712,500.00		
Subtotal				\$3,712,500.00		
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00		
General Cost Subtotal				\$5,160,640.00		
LINE SUBTOTAL				\$13,895,140.00		
STATIONS						
Local Stations	EA	1.00	\$500,000.00	\$500,000.00		
Hub Stations	EA		\$750,000.00	\$0.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$500,000.00		
SUBTOTAL (LINE and STATIONS)				\$14,395,140.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$431,854.20		
Design	LS		12.0%	\$1,727,416.80		
Construction Management	LS		12.0%	\$1,727,416.80		
Administration	LS		2.0%	\$287,902.80		
Insurance and Legal	LS		1.0%	\$143,951.40		
Contingency	LS		30.0%	\$4,318,542.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$8,637,084.00		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF	20000	25.00	\$500,000.00		
Commercial Improved	SF		60.00	\$0.00		
Government Unimproved	SF		5.00	\$0.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$500,000.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	500,000.00		
ROW Subtotal				1,000,000.00		
SEGMENT TOTAL				\$24,032,224.00		

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
PLATE 12						
		From: Calle San Fernando To: UPR - Carolina Length: 2975 Feet 0.57 Miles			Stations: PR-3 UPR - Carolina	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF	775.00	\$2,100.00	\$1,627,500.00		
In-Street Section (1 track)	LF		\$1,550.00	\$0.00		
Ballast Section (2 tracks)	LF	1,775	\$1,200.00	\$2,130,000.00		
On-Structure (2 tracks)	LF	425.00	\$1,650.00	\$701,250.00		
Embankment Section with Walls - Additive	EA	2.00	\$500,000.00	\$1,000,000.00		
Special Trackwork Items	LS		\$0.00	\$0.00		
Subtotal				\$5,458,750.00		
Structure						
Basic	LF		\$4,800.00	\$0.00		
Long Span/Level 3	LF	425.00	\$8,400.00	\$3,570,000.00		
Subtotal				\$3,570,000.00		
Street Modification						
Minor	LF	225.00	\$300.00	\$67,500.00		
Major	LF	450	\$650.00	\$292,500.00		
Subtotal				\$360,000.00		
Systems						
Overhead Catenary System	LF	2975.00	\$500.00	\$1,487,500.00		
Signals	MI	0.57	\$200,000.00	\$114,000.00		
Control System	MI	0.57	\$150,000.00	\$85,500.00		
Communications	MI	0.57	\$75,000.00	\$42,750.00		
Traction Power Substations	MI	0.57	\$300,000.00	\$171,000.00		
Subtotal				\$1,900,750.00		
Guideway Subtotal				11,289,500.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$338,685.00		
Landscaping/Streetscaping	LS		3.0%	\$338,685.00		
Signing and Striping	LS		1.0%	\$112,895.00		
Traffic Control	LS		2.0%	\$225,790.00		
Mitigation	LS		3.0%	\$338,685.00		
Utility Relocation						
None	LF		0.00	\$0.00		
Low	LF	1475	500.00	\$737,500.00		
Moderate	LF	500.00	1,000.00	\$500,000.00		
High	LF	1000.00	1,500.00	\$1,500,000.00		
Subtotal				\$2,737,500.00		
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00		
General Cost Subtotal				\$4,292,240.00		
LINE SUBTOTAL				\$15,581,740.00		
STATIONS						
Local Stations	EA		\$500,000.00	\$0.00		
Hub Stations	EA	2.00	\$750,000.00	\$1,500,000.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA	1	\$1,000,000.00	\$1,000,000.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$2,500,000.00		
SUBTOTAL (LINE and STATIONS)				\$18,081,740.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$542,452.20		
Design	LS		12.0%	\$2,169,808.80		
Construction Management	LS		12.0%	\$2,169,808.80		
Administration	LS		2.0%	\$361,634.80		
Insurance and Legal	LS		1.0%	\$180,817.40		
Contingency	LS		30.0%	\$5,424,522.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$10,849,044.00		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF	70000	25.00	\$1,750,000.00		
Commercial Improved	SF		60.00	\$0.00		
Government Unimproved	SF		5.00	\$0.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$1,750,000.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	1,750,000.00		
ROW Subtotal				3,500,000.00		
SEGMENT TOTAL				\$32,430,784.00		

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE 13	From:	UPR - Carolina			Stations:
	To:	Plaza Escorial			Plaza Escorial
	Length:	2175 Feet			
		0.42 Miles			
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	1,000.00	\$2,100.00	\$2,100,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,175	\$1,200.00	\$1,410,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$3,510,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	2,175.00	\$300.00	\$652,500.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$652,500.00	
Systems					
Overhead Catenary System	LF	2175.00	\$500.00	\$1,087,500.00	
Signals	MI	0.42	\$200,000.00	\$84,000.00	
Control System	MI	0.42	\$150,000.00	\$63,000.00	
Communications	MI	0.42	\$75,000.00	\$31,500.00	
Traction Power Substations	MI	0.42	\$300,000.00	\$126,000.00	
Subtotal				\$1,392,000.00	
Guideway Subtotal				5,554,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$166,635.00	
Landscaping/Streetscaping	LS		3.0%	\$166,635.00	
Signing and Striping	LS		1.0%	\$55,545.00	
Traffic Control	LS		2.0%	\$111,090.00	
Mitigation	LS		3.0%	\$166,635.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	1500.00	1,000.00	\$1,500,000.00	
High	LF	675.00	1,500.00	\$1,012,500.00	
Subtotal				\$2,512,500.00	
Traffic Signal with Preemption	EA	3	\$200,000.00	\$600,000.00	
General Cost Subtotal				\$3,779,040.00	
LINE SUBTOTAL				\$9,333,540.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$9,833,540.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$295,006.20	
Design	LS		12.0%	\$1,180,024.80	
Construction Management	LS		12.0%	\$1,180,024.80	
Administration	LS		2.0%	\$196,670.80	
Insurance and Legal	LS		1.0%	\$98,335.40	
Contingency	LS		30.0%	\$2,950,062.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$5,900,124.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF	18000	25.00	\$450,000.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$450,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	450,000.00	
ROW Subtotal				900,000.00	
SEGMENT TOTAL				\$16,633,664.00	

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE 14	From: Plaza Escorial				Stations:
	To: Plaza Escorial				None
	Length: 750 Feet				
	0.15 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	750	\$1,200.00	\$900,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS			\$350,000.00	
Subtotal				\$1,250,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	750.00	\$300.00	\$225,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$225,000.00	
Systems					
Overhead Catenary System	LF	750.00	\$500.00	\$375,000.00	
Signals	MI	0.15	\$200,000.00	\$30,000.00	
Control System	MI	0.15	\$150,000.00	\$22,500.00	
Communications	MI	0.15	\$75,000.00	\$11,250.00	
Traction Power Substations	MI	0.15	\$300,000.00	\$45,000.00	
Subtotal				\$483,750.00	
Guideway Subtotal				\$1,958,750.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$58,762.50	
Landscaping/Streetscaping	LS		3.0%	\$58,762.50	
Signing and Striping	LS		1.0%	\$19,587.50	
Traffic Control	LS		2.0%	\$39,175.00	
Mitigation	LS		3.0%	\$58,762.50	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	750.00	1,000.00	\$750,000.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$750,000.00	
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00	
General Cost Subtotal				\$985,050.00	
LINE SUBTOTAL				\$2,943,800.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$3,443,800.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$103,314.00	
Design	LS		12.0%	\$413,256.00	
Construction Management	LS		12.0%	\$413,256.00	
Administration	LS		2.0%	\$68,876.00	
Insurance and Legal	LS		1.0%	\$34,438.00	
Contingency	LS		30.0%	\$1,033,140.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$2,066,280.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$0.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	0.00	
ROW Subtotal				0.00	
SEGMENT TOTAL				\$5,510,080.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 15					
		From: Ave. El Comandante		Stations: Ave. Campo Rico	
		To: PR-190			
		Length: 2450 Feet			
		0.47 Miles			
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	850.00	\$2,100.00	\$1,785,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,350	\$1,200.00	\$1,620,000.00	
On-Structure (2 tracks)	LF	250.00	\$1,650.00	\$412,500.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$200,000.00	
Subtotal				\$4,017,500.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF	250.00	\$8,400.00	\$2,100,000.00	
Subtotal				\$2,100,000.00	
Street Modification					
Minor	LF	600.00	\$300.00	\$180,000.00	
Major	LF	1850	\$650.00	\$1,202,500.00	
Subtotal				\$1,382,500.00	
Systems					
Overhead Catenary System	LF	2450.00	\$500.00	\$1,225,000.00	
Signals	MI	0.47	\$200,000.00	\$94,000.00	
Control System	MI	0.47	\$150,000.00	\$70,500.00	
Communications	MI	0.47	\$75,000.00	\$35,250.00	
Traction Power Substations	MI	0.47	\$300,000.00	\$141,000.00	
Subtotal				\$1,565,750.00	
Guideway Subtotal				9,065,750.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$271,972.50	
Landscaping/Streetscaping	LS		3.0%	\$271,972.50	
Signing and Striping	LS		1.0%	\$90,657.50	
Traffic Control	LS		2.0%	\$181,315.00	
Mitigation	LS		3.0%	\$271,972.50	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF	675	500.00	\$337,500.00	
Moderate	LF	450.00	1,000.00	\$450,000.00	
High	LF	1325.00	1,500.00	\$1,987,500.00	
Subtotal				\$2,775,000.00	
Traffic Signal with Preemption	EA	3	\$200,000.00	\$600,000.00	
General Cost Subtotal				\$4,462,890.00	
LINE SUBTOTAL				\$13,528,640.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$14,278,640.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$428,359.20	
Design	LS		12.0%	\$1,713,436.80	
Construction Management	LS		12.0%	\$1,713,436.80	
Administration	LS		2.0%	\$285,572.80	
Insurance and Legal	LS		1.0%	\$142,786.40	
Contingency	LS		30.0%	\$4,283,592.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$8,567,184.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF	10000	25.00	\$250,000.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$250,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	250,000.00	
ROW Subtotal				500,000.00	
SEGMENT TOTAL				\$23,345,824.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 16					
		From: PR-190		Stations:	
		To: Ave. Sanchez Osorio		Univ. of the East	
		Length: 3700 Feet		Ave. Sanchez Osorio - North	
		0.71 Miles			
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	850.00	\$2,100.00	\$1,785,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,850	\$1,200.00	\$3,420,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$350,000.00	
Subtotal				\$5,555,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	600.00	\$300.00	\$180,000.00	
Major	LF	1600	\$650.00	\$1,040,000.00	
Subtotal				\$1,220,000.00	
Systems					
Overhead Catenary System	LF	3700.00	\$500.00	\$1,850,000.00	
Signals	MI	0.71	\$200,000.00	\$142,000.00	
Control System	MI	0.71	\$150,000.00	\$106,500.00	
Communications	MI	0.71	\$75,000.00	\$53,250.00	
Traction Power Substations	MI	0.71	\$300,000.00	\$213,000.00	
Subtotal				\$2,364,750.00	
Guideway Subtotal				9,139,750.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$274,192.50	
Landscaping/Streetscaping	LS		3.0%	\$274,192.50	
Signing and Striping	LS		1.0%	\$91,397.50	
Traffic Control	LS		2.0%	\$182,795.00	
Mitigation	LS		3.0%	\$274,192.50	
Utility Relocation					
None	LF	0	0.00	\$0.00	
Low	LF	1400	500.00	\$700,000.00	
Moderate	LF	650.00	1,000.00	\$650,000.00	
High	LF	1650.00	1,500.00	\$2,475,000.00	
Subtotal				\$3,825,000.00	
Traffic Signal with Preemption	EA	3	\$200,000.00	\$600,000.00	
General Cost Subtotal				\$5,521,770.00	
LINE SUBTOTAL				\$14,661,520.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$1,250,000.00	
SUBTOTAL (LINE and STATIONS)				\$15,911,520.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$477,345.60	
Design	LS		12.0%	\$1,909,382.40	
Construction Management	LS		12.0%	\$1,909,382.40	
Administration	LS		2.0%	\$318,230.40	
Insurance and Legal	LS		1.0%	\$159,115.20	
Contingency	LS		30.0%	\$4,773,456.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$9,546,912.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF	52000	25.00	\$1,300,000.00	
Commercial Improved	SF	50000	60.00	\$3,000,000.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$4,300,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	4,300,000.00	
ROW Subtotal				8,600,000.00	
SEGMENT TOTAL				\$34,058,432.00	

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE 17	From: Calle 128				Stations:
	To: Ave. Monserrate				Ave. Monserrate
	Length: 2275 Feet				
	0.44 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	500.00	\$2,100.00	\$1,050,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,775	\$1,200.00	\$2,130,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$1,100,000.00	
Subtotal				\$4,280,000.00	
Structure					
Basic	LF	0.00	\$4,800.00	\$0.00	
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	1,400.00	\$300.00	\$420,000.00	
Major	LF	150	\$650.00	\$97,500.00	
Subtotal				\$517,500.00	
Systems					
Overhead Catenary System	LF	2275.00	\$500.00	\$1,137,500.00	
Signals	MI	0.44	\$200,000.00	\$88,000.00	
Control System	MI	0.44	\$150,000.00	\$66,000.00	
Communications	MI	0.44	\$75,000.00	\$33,000.00	
Traction Power Substations	MI	0.44	\$300,000.00	\$132,000.00	
Subtotal				\$1,456,500.00	
Guideway Subtotal				6,254,000.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$187,620.00	
Landscaping/Streetscaping	LS		3.0%	\$187,620.00	
Signing and Striping	LS		1.0%	\$62,540.00	
Traffic Control	LS		2.0%	\$125,080.00	
Mitigation	LS		3.0%	\$187,620.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF	1400	500.00	\$700,000.00	
Moderate	LF		1,000.00	\$0.00	
High	LF	300.00	1,500.00	\$450,000.00	
Subtotal				\$1,150,000.00	
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00	
General Cost Subtotal				\$2,300,480.00	
LINE SUBTOTAL				\$8,554,480.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$9,304,480.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$279,134.40	
Design	LS		12.0%	\$1,116,537.60	
Construction Management	LS		12.0%	\$1,116,537.60	
Administration	LS		2.0%	\$186,089.60	
Insurance and Legal	LS		1.0%	\$93,044.80	
Contingency	LS		30.0%	\$2,791,344.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$5,582,688.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	28000	5.00	\$140,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$140,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	140,000.00	
ROW Subtotal				280,000.00	
SEGMENT TOTAL				\$15,167,168.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 18					
From: Ave. Monserrate		To: Ave. Fragoso		Stations: Ave. Sanchez Osorio - South	
Length: 2600 Feet		0.5 Miles			
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	2,600.00	\$2,100.00	\$5,460,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF		\$1,200.00	\$0.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$5,460,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF	2600	\$650.00	\$1,690,000.00	
Subtotal				\$1,690,000.00	
Systems					
Overhead Catenary System	LF	2600.00	\$500.00	\$1,300,000.00	
Signals	MI	0.50	\$200,000.00	\$100,000.00	
Control System	MI	0.50	\$150,000.00	\$75,000.00	
Communications	MI	0.50	\$75,000.00	\$37,500.00	
Traction Power Substations	MI	0.50	\$300,000.00	\$150,000.00	
Subtotal				\$1,662,500.00	
Guideway Subtotal				8,812,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$264,375.00	
Landscaping/Streetscaping	LS		3.0%	\$264,375.00	
Signing and Striping	LS		1.0%	\$88,125.00	
Traffic Control	LS		2.0%	\$176,250.00	
Mitigation	LS		3.0%	\$264,375.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF		1,000.00	\$0.00	
High	LF	2600.00	1,500.00	\$3,900,000.00	
Subtotal				\$3,900,000.00	
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00	
General Cost Subtotal				\$5,357,500.00	
LINE SUBTOTAL				\$14,170,000.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$14,670,000.00	
INDIRECT COSTS					
Mobilization	LS	0	3.0%	\$440,100.00	
Design	LS	0	12.0%	\$1,760,400.00	
Construction Management	LS	0	12.0%	\$1,760,400.00	
Administration	LS	0	2.0%	\$293,400.00	
Insurance and Legal	LS	0	1.0%	\$146,700.00	
Contingency	LS	0	30.0%	\$4,401,000.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$8,802,000.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	20000	5.00	\$100,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$100,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	100,000.00	
ROW Subtotal				200,000.00	
SEGMENT TOTAL				\$23,672,000.00	

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE 19	From: Plaza Carolina To: Plaza Carolina Length: 2850 Feet 0.54 Miles	Stations: Plaza Carolina - East			
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	1,575.00	\$2,100.00	\$3,307,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,275	\$1,200.00	\$1,530,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$4,837,500.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	C. Lorena northward slope to grade
Long Span/Level 3	LF		\$8,400.00	\$0.00	Balance
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	Parking lot adjustments
Major	LF	1075	\$650.00	\$698,750.00	
Subtotal				\$698,750.00	
Systems					
Overhead Catenary System	LF	2850.00	\$500.00	\$1,425,000.00	
Signals	MI	0.54	\$200,000.00	\$108,000.00	
Control System	MI	0.54	\$150,000.00	\$81,000.00	
Communications	MI	0.54	\$75,000.00	\$40,500.00	
Traction Power Substations	MI	0.54	\$300,000.00	\$162,000.00	
Subtotal				\$1,816,500.00	
Guideway Subtotal				7,352,750.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$220,582.50	
Landscaping/Streetscaping	LS		3.0%	\$220,582.50	
Signing and Striping	LS		1.0%	\$73,527.50	
Traffic Control	LS		2.0%	\$147,055.00	
Mitigation	LS		3.0%	\$220,582.50	
Utility Relocation					
None	LF	0	0.00	\$0.00	
Low	LF	875	500.00	\$437,500.00	
Moderate	LF	875.00	1,000.00	\$875,000.00	
High	LF	1100.00	1,500.00	\$1,650,000.00	
Subtotal				\$2,962,500.00	
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00	
General Cost Subtotal				\$4,244,830.00	
LINE SUBTOTAL				\$11,597,580.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$12,097,580.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$362,927.40	
Design	LS		12.0%	\$1,451,709.60	
Construction Management	LS		12.0%	\$1,451,709.60	
Administration	LS		2.0%	\$241,951.60	
Insurance and Legal	LS		1.0%	\$120,975.80	
Contingency	LS		30.0%	\$3,629,274.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$7,258,548.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF	60000	25.00	\$1,500,000.00	Right-of-way NOT presumed to be acquired by Tren Urbano
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$1,500,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	1,500,000.00	
ROW Subtotal				3,000,000.00	
SEGMENT TOTAL				\$22,356,128.00	

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE 20	From: Plaza Carolina To: Blasina Channel Length: 1950 Feet 0.37 Miles	Stations: Plaza Carolina - East			
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	1000	\$2,100.00	\$4,777,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	650	\$1,200.00	\$0.00	
On-Structure (2 tracks)	LF	300	\$1,650.00	\$165,000.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$350,000.00	
Subtotal				\$5,292,500.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF	300.00	\$8,400.00	\$2,520,000.00	
Subtotal				\$2,520,000.00	
Street Modification					
Minor	LF	300.00	\$300.00	\$90,000.00	
Major	LF	350	\$650.00	\$227,500.00	
Subtotal				\$317,500.00	
Systems					
Overhead Catenary System	LF	1950.00	\$500.00	\$975,000.00	
Signals	MI	0.37	\$200,000.00	\$74,000.00	
Control System	MI	0.37	\$150,000.00	\$55,500.00	
Communications	MI	0.37	\$75,000.00	\$27,750.00	
Traction Power Substations	MI	0.37	\$300,000.00	\$111,000.00	
Subtotal				\$1,243,250.00	
Guideway Subtotal				9,373,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$281,197.50	
Landscaping/Streetscaping	LS		3.0%	\$281,197.50	
Signing and Striping	LS		1.0%	\$93,732.50	
Traffic Control	LS		2.0%	\$187,465.00	
Mitigation	LS		3.0%	\$281,197.50	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF	300	500.00	\$150,000.00	
Moderate	LF	700.00	1,000.00	\$700,000.00	
High	LF	950.00	1,500.00	\$1,425,000.00	
Subtotal				\$2,275,000.00	
Traffic Signal with Preemption	EA	3	\$200,000.00	\$600,000.00	
General Cost Subtotal				\$3,999,790.00	
LINE SUBTOTAL				\$13,373,040.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$14,123,040.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$423,691.20	
Design	LS		12.0%	\$1,694,764.80	
Construction Management	LS		12.0%	\$1,694,764.80	
Administration	LS		2.0%	\$282,460.80	
Insurance and Legal	LS		1.0%	\$141,230.40	
Contingency	LS		30.0%	\$4,236,912.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$8,473,824.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF	36000	25.00	\$900,000.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$900,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	900,000.00	
ROW Subtotal				1,800,000.00	
SEGMENT TOTAL				\$24,396,864.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 21					
From: Channel Blasina			Stations: Ave. Roberto Clemente		
To: Drainage Channel					
Length: 2375 Feet					
0.45 Miles					
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	2,275.00	\$2,100.00	\$4,777,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF		\$1,200.00	\$0.00	
On-Structure (2 tracks)	LF	100.00	\$1,650.00	\$165,000.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$4,942,500.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF	100.00	\$8,400.00	\$840,000.00	
Subtotal				\$840,000.00	
Street Modification					
Minor	LF	2,375.00	\$300.00	\$712,500.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$712,500.00	
Systems					
Overhead Catenary System	LF	2375.00	\$500.00	\$1,187,500.00	
Signals	MI	0.45	\$200,000.00	\$90,000.00	
Control System	MI	0.45	\$150,000.00	\$67,500.00	
Communications	MI	0.45	\$75,000.00	\$33,750.00	
Traction Power Substations	MI	0.45	\$300,000.00	\$135,000.00	
Subtotal				\$1,513,750.00	
Guideway Subtotal				8,008,750.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$240,262.50	
Landscaping/Streetscaping	LS		3.0%	\$240,262.50	
Signaling and Striping	LS		1.0%	\$80,087.50	
Traffic Control	LS		2.0%	\$160,175.00	
Mitigation	LS		3.0%	\$240,262.50	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF		1,000.00	\$0.00	
High	LF	2375.00	1,500.00	\$3,562,500.00	
Subtotal				\$3,562,500.00	
Traffic Signal with Preemption	EA	3	\$200,000.00	\$600,000.00	
General Cost Subtotal				\$5,123,550.00	
LINE SUBTOTAL				\$13,132,300.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$13,632,300.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$408,969.00	
Design	LS		12.0%	\$1,635,876.00	
Construction Management	LS		12.0%	\$1,635,876.00	
Administration	LS		2.0%	\$272,646.00	
Insurance and Legal	LS		1.0%	\$136,323.00	
Contingency	LS		30.0%	\$4,089,690.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$8,179,380.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$0.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	0.00	
ROW Subtotal				0.00	
SEGMENT TOTAL				\$21,811,680.00	

Tranvía de Carolina Light Rail Project

PLATE 22	From: Drainage Channel To: Calle 31 Length: 2500 Feet 0.48 Miles			Stations: None	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	2,500.00	\$2,100.00	\$5,250,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF		\$1,200.00	\$0.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$5,250,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	2,500.00	\$300.00	\$750,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$750,000.00	
Systems					
Overhead Catenary System	LF	2500.00	\$500.00	\$1,250,000.00	
Signals	MI	0.48	\$200,000.00	\$96,000.00	
Control System	MI	0.48	\$150,000.00	\$72,000.00	
Communications	MI	0.48	\$75,000.00	\$36,000.00	
Traction Power Substations	MI	0.48	\$300,000.00	\$144,000.00	
Subtotal				\$1,598,000.00	
Guideway Subtotal				7,598,000.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$227,940.00	
Landscaping/Streetscaping	LS		3.0%	\$227,940.00	
Signaling and Striping	LS		1.0%	\$75,980.00	
Traffic Control	LS		2.0%	\$151,960.00	
Mitigation	LS		3.0%	\$227,940.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	2500.00	1,000.00	\$2,500,000.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$2,500,000.00	
Traffic Signal with Preemption	EA	3	\$200,000.00	\$600,000.00	
General Cost Subtotal				\$4,011,760.00	
LINE SUBTOTAL				\$11,609,760.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
SUBTOTAL (LINE and STATIONS)				\$11,609,760.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$348,292.80	
Design	LS		12.0%	\$1,393,171.20	
Construction Management	LS		12.0%	\$1,393,171.20	
Administration	LS		2.0%	\$232,195.20	
Insurance and Legal	LS		1.0%	\$116,097.60	
Contingency	LS		30.0%	\$3,482,928.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$6,965,856.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$0.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	0.00	
ROW Subtotal				0.00	
SEGMENT TOTAL				\$18,575,616.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 23					
From:		Ave. Sanchez Castano			Stations:
To:		AMA Transfer Center			PR-874
Length:		2625 Feet			Intermodal Center
		0.5 Miles			
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	1,575.00	\$2,100.00	\$3,307,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,050	\$1,200.00	\$1,260,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$350,000.00	
Subtotal				\$4,917,500.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	800.00	\$300.00	\$240,000.00	Assumes PR-874 remains 2 lanes wide.
Major	LF		\$650.00	\$0.00	
Subtotal				\$240,000.00	
Systems					
Overhead Catenary System	LF	2625.00	\$500.00	\$1,312,500.00	
Signals	MI	0.50	\$200,000.00	\$100,000.00	
Control System	MI	0.50	\$150,000.00	\$75,000.00	
Communications	MI	0.50	\$75,000.00	\$37,500.00	
Traction Power Substations	MI	0.50	\$300,000.00	\$150,000.00	
Subtotal				\$1,675,000.00	
Guideway Subtotal				6,832,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$204,975.00	
Landscaping/Streetscaping	LS		3.0%	\$204,975.00	
Signing and Striping	LS		1.0%	\$68,325.00	
Traffic Control	LS		2.0%	\$136,650.00	
Mitigation	LS		3.0%	\$204,975.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	2625.00	1,000.00	\$2,625,000.00	
High	LF	800.00	1,500.00	\$1,200,000.00	
Subtotal				\$3,825,000.00	
Traffic Signal with Preemption	EA	4	\$200,000.00	\$800,000.00	
General Cost Subtotal				\$5,444,900.00	
LINE SUBTOTAL				\$12,277,400.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$1,250,000.00	
SUBTOTAL (LINE and STATIONS)				\$13,527,400.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$405,822.00	
Design	LS		12.0%	\$1,623,288.00	
Construction Management	LS		12.0%	\$1,623,288.00	
Administration	LS		2.0%	\$270,548.00	
Insurance and Legal	LS		1.0%	\$135,274.00	
Contingency	LS		30.0%	\$4,058,220.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$8,116,440.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF	21000	25.00	\$525,000.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	20000	5.00	\$100,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$625,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	625,000.00	
ROW Subtotal				1,250,000.00	
SEGMENT TOTAL				\$22,893,840.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 24					
From: AMA Transfer Center					Stations:
To: City Hall					Centro de Gobierno
Length: 1975 Feet					
0.38 Miles					
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	1,975.00	\$2,100.00	\$4,147,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF		\$1,200.00	\$0.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$4,147,500.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	1,975.00	\$300.00	\$592,500.00	
Major	LF	0	\$650.00	\$0.00	
Subtotal				\$592,500.00	
Systems					
Overhead Catenary System	LF	1975.00	\$500.00	\$987,500.00	
Signals	MI	0.38	\$200,000.00	\$76,000.00	
Control System	MI	0.38	\$150,000.00	\$57,000.00	
Communications	MI	0.38	\$75,000.00	\$28,500.00	
Traction Power Substations	MI	0.38	\$300,000.00	\$114,000.00	
Subtotal				\$1,263,000.00	
Guideway Subtotal				6,003,000.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$180,090.00	
Landscaping/Streetscaping	LS		3.0%	\$180,090.00	
Signing and Striping	LS		1.0%	\$60,030.00	
Traffic Control	LS		2.0%	\$120,060.00	
Mitigation	LS		3.0%	\$180,090.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF		1,000.00	\$0.00	
High	LF	1975.00	1,500.00	\$2,962,500.00	
Subtotal				\$2,962,500.00	
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00	
General Cost Subtotal				\$4,082,860.00	
LINE SUBTOTAL				\$10,085,860.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA	0.00	\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$1,250,000.00	
SUBTOTAL (LINE and STATIONS)				\$11,335,860.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$340,075.80	
Design	LS		12.0%	\$1,360,303.20	
Construction Management	LS		12.0%	\$1,360,303.20	
Administration	LS		2.0%	\$226,717.20	
Insurance and Legal	LS		1.0%	\$113,358.60	
Contingency	LS		30.0%	\$3,400,758.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$6,801,516.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$0.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	0.00	
ROW Subtotal				0.00	
SEGMENT TOTAL				\$18,137,376.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 25					
From: City Hall		To: PR-3		Stations: City Hall	
Length: 2575 Feet		0.49 Miles		Tren Urbano - Carolina	
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	2,300.00	\$2,100.00	\$4,830,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	275	\$1,200.00	\$330,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$5,160,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	2,175.00	\$300.00	\$652,500.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$652,500.00	
Systems					
Overhead Catenary System	LF	2575.00	\$500.00	\$1,287,500.00	
Signals	MI	0.49	\$200,000.00	\$98,000.00	
Control System	MI	0.49	\$150,000.00	\$73,500.00	
Communications	MI	0.49	\$75,000.00	\$36,750.00	
Traction Power Substations	MI	0.49	\$300,000.00	\$147,000.00	
Subtotal				\$1,642,750.00	
Guideway Subtotal				7,455,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$223,657.50	
Landscaping/Streetscaping	LS		3.0%	\$223,657.50	
Signaling and Striping	LS		1.0%	\$74,552.50	
Traffic Control	LS		2.0%	\$149,105.00	
Mitigation	LS		3.0%	\$223,657.50	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	400.00	1,000.00	\$400,000.00	
High	LF	2175.00	1,500.00	\$3,262,500.00	
Subtotal				\$3,662,500.00	
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00	
General Cost Subtotal				\$4,957,130.00	
LINE SUBTOTAL				\$12,412,380.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	2.00	\$750,000.00	\$1,500,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$1,500,000.00	
SUBTOTAL (LINE and STATIONS)				\$13,912,380.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$417,371.40	
Design	LS		12.0%	\$1,669,485.60	
Construction Management	LS		12.0%	\$1,669,485.60	
Administration	LS		2.0%	\$278,247.60	
Insurance and Legal	LS		1.0%	\$139,123.80	
Contingency	LS		30.0%	\$4,173,714.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$8,347,428.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF	25000	25.00	\$625,000.00	Presumed to occur before Tren Urbano
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$625,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	625,000.00	
ROW Subtotal				1,250,000.00	
SEGMENT TOTAL				\$23,509,808.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 26					
From: PR-874					Stations:
To: Stadium					Stadium
Length: 2325 Feet					
0.45 Miles					
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	125.00	\$2,100.00	\$262,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,400	\$1,200.00	\$1,680,000.00	
On-Structure (2 tracks)	LF	800.00	\$1,650.00	\$1,320,000.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$350,000.00	
Subtotal				\$3,612,500.00	
Structure					
Basic	LF	800.00	\$4,800.00	\$3,840,000.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$3,840,000.00	
Street Modification					
Minor	LF	1,175.00	\$300.00	\$352,500.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$352,500.00	
Systems					
Overhead Catenary System	LF	2325.00	\$500.00	\$1,162,500.00	
Signals	MI	0.45	\$200,000.00	\$90,000.00	
Control System	MI	0.45	\$150,000.00	\$67,500.00	
Communications	MI	0.45	\$75,000.00	\$33,750.00	
Traction Power Substations	MI	0.45	\$300,000.00	\$135,000.00	
Subtotal				\$1,488,750.00	
Guideway Subtotal				\$9,293,750.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$278,812.50	
Landscaping/Streetscaping	LS		3.0%	\$278,812.50	
Signing and Striping	LS		1.0%	\$92,937.50	
Traffic Control	LS		2.0%	\$185,875.00	
Mitigation	LS		3.0%	\$278,812.50	
Utility Relocation					
None	LF	1000	0.00	\$0.00	
Low	LF	1325	500.00	\$662,500.00	
Moderate	LF		1,000.00	\$0.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$662,500.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$1,977,750.00	
LINE SUBTOTAL				\$11,271,500.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$12,021,500.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$360,645.00	
Design	LS		12.0%	\$1,442,580.00	
Construction Management	LS		12.0%	\$1,442,580.00	
Administration	LS		2.0%	\$240,430.00	
Insurance and Legal	LS		1.0%	\$120,215.00	
Contingency	LS		30.0%	\$3,606,450.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$7,212,900.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF	8000	25.00	\$200,000.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	10000	5.00	\$50,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$250,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	250,000.00	
ROW Subtotal				500,000.00	
SEGMENT TOTAL				\$19,734,400.00	

Tranvía de Carolina Light Rail Project

PLATE 27	From: Stadium To: Tren Urbano Length: 950 Feet 0.18 Miles			Stations: Tren Urbano	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	300.00	\$2,100.00	\$630,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	650	\$1,200.00	\$780,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$125,000.00	
Subtotal				\$1,535,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	950.00	\$500.00	\$475,000.00	
Signals	MI	0.18	\$200,000.00	\$36,000.00	
Control System	MI	0.18	\$150,000.00	\$27,000.00	
Communications	MI	0.18	\$75,000.00	\$13,500.00	
Traction Power Substations	MI	0.18	\$300,000.00	\$54,000.00	
Subtotal				\$605,500.00	
Guideway Subtotal				2,140,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$64,215.00	
Landscaping/Streetscaping	LS		3.0%	\$64,215.00	
Signing and Striping	LS		1.0%	\$21,405.00	
Traffic Control	LS		2.0%	\$42,810.00	
Mitigation	LS		3.0%	\$64,215.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF	950	500.00	\$475,000.00	
Moderate	LF		1,000.00	\$0.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$475,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$931,860.00	
LINE SUBTOTAL				\$3,072,360.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$3,822,360.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$114,670.80	
Design	LS		12.0%	\$458,683.20	
Construction Management	LS		12.0%	\$458,683.20	
Administration	LS		2.0%	\$76,447.20	
Insurance and Legal	LS		1.0%	\$38,223.60	
Contingency	LS		30.0%	\$1,146,708.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$2,293,416.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF	30000	25.00	\$750,000.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$750,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	750,000.00	
ROW Subtotal				1,500,000.00	
SEGMENT TOTAL				\$7,615,776.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 28					
From: Ave. El Comandante		To: Drainage Channel		Stations: AMA Transfer Center	
Length: 2000 Feet		0.38 Miles			
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	450.00	\$2,100.00	\$945,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,550	\$1,200.00	\$1,860,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$312,500.00	
Subtotal				\$3,117,500.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	2000.00	\$500.00	\$1,000,000.00	
Signals	MI	0.38	\$200,000.00	\$76,000.00	
Control System	MI	0.38	\$150,000.00	\$57,000.00	
Communications	MI	0.38	\$75,000.00	\$28,500.00	
Traction Power Substations	MI	0.38	\$300,000.00	\$114,000.00	
Subtotal				\$1,275,500.00	
Guideway Subtotal				4,393,000.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$131,790.00	
Landscaping/Streetscaping	LS		3.0%	\$131,790.00	
Signing and Striping	LS		1.0%	\$43,930.00	
Traffic Control	LS		2.0%	\$87,860.00	
Mitigation	LS		3.0%	\$131,790.00	
Utility Relocation					
None	LF	1600	0.00	\$0.00	
Low	LF	400	500.00	\$200,000.00	
Moderate	LF		1,000.00	\$0.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$200,000.00	
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00	
General Cost Subtotal				\$1,127,160.00	
LINE SUBTOTAL				\$5,520,160.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
SUBTOTAL (LINE and STATIONS)				\$5,520,160.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$165,604.80	
Design	LS		12.0%	\$662,419.20	
Construction Management	LS		12.0%	\$662,419.20	
Administration	LS		2.0%	\$110,403.20	
Insurance and Legal	LS		1.0%	\$55,201.60	
Contingency	LS		30.0%	\$1,656,048.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$3,312,096.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	60000	5.00	\$300,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$300,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	300,000.00	
ROW Subtotal				600,000.00	
SEGMENT TOTAL				\$9,432,256.00	

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE 29	From: PR-26 To: Calle Alicante Length: 3400 Feet 0.65 Miles				Stations: PR-26
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,700	\$1,200.00	\$3,240,000.00	
On-Structure (2 tracks)	LF	700.00	\$1,650.00	\$1,155,000.00	
Embankment Section with Walls - Additive	EA	2.00	\$500,000.00	\$1,000,000.00	
Special Trackwork Items	LS		\$0.00	\$425,000.00	
Subtotal				\$5,820,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF	700.00	\$8,400.00	\$5,880,000.00	
Subtotal				\$5,880,000.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	3400.00	\$500.00	\$1,700,000.00	
Signals	MI	0.65	\$200,000.00	\$130,000.00	
Control System	MI	0.65	\$150,000.00	\$97,500.00	
Communications	MI	0.65	\$75,000.00	\$48,750.00	
Traction Power Substations	MI	0.65	\$300,000.00	\$195,000.00	
Subtotal				\$2,171,250.00	
Guideway Subtotal				13,871,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$416,137.50	
Landscaping/Streetscaping	LS		3.0%	\$416,137.50	
Signing and Striping	LS		1.0%	\$138,712.50	
Traffic Control	LS		2.0%	\$277,425.00	
Mitigation	LS		3.0%	\$416,137.50	
Utility Relocation					
None	LF	1600	0.00	\$0.00	
Low	LF	1500	500.00	\$750,000.00	
Moderate	LF		1,000.00	\$0.00	
High	LF	300.00	1,500.00	\$450,000.00	
Subtotal				\$1,200,000.00	
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00	
General Cost Subtotal				\$2,864,550.00	
LINE SUBTOTAL				\$16,735,800.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA	1	\$1,500,000.00	\$1,500,000.00	
STATION SUBTOTAL				\$2,250,000.00	
SUBTOTAL (LINE and STATIONS)				\$18,985,800.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$569,574.00	
Design	LS		12.0%	\$2,278,296.00	
Construction Management	LS		12.0%	\$2,278,296.00	
Administration	LS		2.0%	\$379,716.00	
Insurance and Legal	LS		1.0%	\$189,858.00	
Contingency	LS		30.0%	\$5,695,740.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$11,391,480.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF	70000	25.00	\$1,750,000.00	Church and privately held land on the east.
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$1,750,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	1,750,000.00	
ROW Subtotal				3,500,000.00	
SEGMENT TOTAL				\$33,877,280.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 30					
		From: Calle Alicante To: Ave. Galicia Length: 2800 Feet 0.54 Miles			Stations: Galicia
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	300.00	\$2,100.00	\$630,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,500	\$1,200.00	\$3,000,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$3,630,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	2800.00	\$500.00	\$1,400,000.00	
Signals	MI	0.54	\$200,000.00	\$108,000.00	
Control System	MI	0.54	\$150,000.00	\$81,000.00	
Communications	MI	0.54	\$75,000.00	\$40,500.00	
Traction Power Substations	MI	0.54	\$300,000.00	\$162,000.00	
Subtotal				\$1,791,500.00	
Guideway Subtotal				5,421,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$162,645.00	
Landscaping/Streetscaping	LS		3.0%	\$162,645.00	
Signing and Striping	LS		1.0%	\$54,215.00	
Traffic Control	LS		2.0%	\$108,430.00	
Mitigation	LS		3.0%	\$162,645.00	
Utility Relocation					
None	LF	2500	0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	300.00	1,000.00	\$300,000.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$300,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$1,150,580.00	
LINE SUBTOTAL				\$6,572,080.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$7,072,080.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$212,162.40	
Design	LS		12.0%	\$848,649.60	
Construction Management	LS		12.0%	\$848,649.60	
Administration	LS		2.0%	\$141,441.60	
Insurance and Legal	LS		1.0%	\$70,720.80	
Contingency	LS		30.0%	\$2,121,624.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$4,243,248.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	90000	5.00	\$450,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$450,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	450,000.00	
ROW Subtotal				900,000.00	
SEGMENT TOTAL				\$12,215,328.00	

Tranvía de Carolina Light Rail Project

PLATE 31	From: Ave. Galicia To: Calle Andalucía Length: 1950 Feet 0.37 Miles			Stations: None	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	75.00	\$2,100.00	\$157,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,875	\$1,200.00	\$2,250,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$2,407,500.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	1950.00	\$500.00	\$975,000.00	
Signals	MI	0.37	\$200,000.00	\$74,000.00	
Control System	MI	0.37	\$150,000.00	\$55,500.00	
Communications	MI	0.37	\$75,000.00	\$27,750.00	
Traction Power Substations	MI	0.37	\$300,000.00	\$111,000.00	
Subtotal				\$1,243,250.00	
Guideway Subtotal				\$3,650,750.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$109,522.50	
Landscaping/Streetscaping	LS		3.0%	\$109,522.50	
Signing and Striping	LS		1.0%	\$36,507.50	
Traffic Control	LS		2.0%	\$73,015.00	
Mitigation	LS		3.0%	\$109,522.50	
Utility Relocation					
None	LF	1850	0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	100.00	1,000.00	\$100,000.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$100,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$738,090.00	
LINE SUBTOTAL				\$4,388,840.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
SUBTOTAL (LINE and STATIONS)				\$4,388,840.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$131,665.20	
Design	LS		12.0%	\$526,660.80	
Construction Management	LS		12.0%	\$526,660.80	
Administration	LS		2.0%	\$87,776.80	
Insurance and Legal	LS		1.0%	\$43,888.40	
Contingency	LS		30.0%	\$1,316,652.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$2,633,304.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	58500	5.00	\$292,500.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$292,500.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	292,500.00	
ROW Subtotal				585,000.00	
SEGMENT TOTAL				\$7,607,144.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 32					
From:		Calle Andalucia			Stations:
To:		Calle 28			None
Length:		2550 Feet			
		0.49 Miles			
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,550	\$1,200.00	\$3,060,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$46,250.00	
Subtotal				\$3,106,250.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	2550.00	\$500.00	\$1,275,000.00	
Signals	MI	0.49	\$200,000.00	\$98,000.00	
Control System	MI	0.49	\$150,000.00	\$73,500.00	
Communications	MI	0.49	\$75,000.00	\$36,750.00	
Traction Power Substations	MI	0.49	\$300,000.00	\$147,000.00	
Subtotal				\$1,630,250.00	
Guideway Subtotal				4,736,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$142,095.00	
Landscaping/Streetscaping	LS		3.0%	\$142,095.00	
Signaling and Striping	LS		1.0%	\$47,365.00	
Traffic Control	LS		2.0%	\$94,730.00	
Mitigation	LS		3.0%	\$142,095.00	
Utility Relocation					
None	LF	2550	0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF		1,000.00	\$0.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$0.00	
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00	
General Cost Subtotal				\$568,380.00	
LINE SUBTOTAL				\$5,304,880.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
SUBTOTAL (LINE and STATIONS)				\$5,304,880.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$159,146.40	
Design	LS		12.0%	\$636,585.60	
Construction Management	LS		12.0%	\$636,585.60	
Administration	LS		2.0%	\$106,097.60	
Insurance and Legal	LS		1.0%	\$53,048.80	
Contingency	LS		30.0%	\$1,591,464.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$3,182,928.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	76500	5.00	\$382,500.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$382,500.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	382,500.00	
ROW Subtotal				765,000.00	
SEGMENT TOTAL				\$9,252,808.00	

Tranvía de Carolina Light Rail Project

PLATE 33	From: Calle 28			Stations:	
	To: Calle 150			Ave. Pontezuela	
	Length: 2475 Feet				
	0.47 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	250.00	\$2,100.00	\$525,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,225	\$1,200.00	\$2,670,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$396,250.00	
Subtotal				\$3,591,250.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	2475.00	\$500.00	\$1,237,500.00	
Signals	MI	0.47	\$200,000.00	\$94,000.00	
Control System	MI	0.47	\$150,000.00	\$70,500.00	
Communications	MI	0.47	\$75,000.00	\$35,250.00	
Traction Power Substations	MI	0.47	\$300,000.00	\$141,000.00	
Subtotal				\$1,578,250.00	
Guideway Subtotal				5,169,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$155,085.00	
Landscaping/Streetscaping	LS		3.0%	\$155,085.00	
Signing and Striping	LS		1.0%	\$51,695.00	
Traffic Control	LS		2.0%	\$103,390.00	
Mitigation	LS		3.0%	\$155,085.00	
Utility Relocation					
None	LF	2475	0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF		1,000.00	\$0.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$0.00	
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00	
General Cost Subtotal				\$620,340.00	
LINE SUBTOTAL				\$5,789,840.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$6,289,840.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$188,695.20	
Design	LS		12.0%	\$754,780.80	
Construction Management	LS		12.0%	\$754,780.80	
Administration	LS		2.0%	\$125,796.80	
Insurance and Legal	LS		1.0%	\$62,898.40	
Contingency	LS		30.0%	\$1,886,952.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$3,773,904.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	74250	5.00	\$371,250.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$371,250.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	371,250.00	
ROW Subtotal				742,500.00	
SEGMENT TOTAL				\$10,806,244.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 34					
		From: Calle 150		Stations: Ave. Campo Rico - North	
		To: Ave. Campo Rico			
		Length: 2600 Feet			
		0.50 Miles			
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	325.00	\$2,100.00	\$682,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,925	\$1,200.00	\$2,310,000.00	
On-Structure (2 tracks)	LF	350.00	\$1,650.00	\$577,500.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$27,500.00	
Subtotal				\$3,597,500.00	
Structure					
Basic	LF	350.00	\$4,800.00	\$1,680,000.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$1,680,000.00	
Street Modification					
Minor	LF	975.00	\$300.00	\$292,500.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$292,500.00	
Systems					
Overhead Catenary System	LF	2600.00	\$500.00	\$1,300,000.00	
Signals	MI	0.50	\$200,000.00	\$100,000.00	
Control System	MI	0.50	\$150,000.00	\$75,000.00	
Communications	MI	0.50	\$75,000.00	\$37,500.00	
Traction Power Substations	MI	0.50	\$300,000.00	\$150,000.00	
Subtotal				\$1,662,500.00	
Guideway Subtotal				7,232,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$216,975.00	
Landscaping/Streetscaping	LS		3.0%	\$216,975.00	
Signing and Striping	LS		1.0%	\$72,325.00	
Traffic Control	LS		2.0%	\$144,650.00	
Mitigation	LS		3.0%	\$216,975.00	
Utility Relocation					
None	LF	1575	0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF		1,000.00	\$0.00	
High	LF	1025.00	1,500.00	\$1,537,500.00	
Subtotal				\$1,537,500.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$2,605,400.00	
LINE SUBTOTAL				\$9,837,900.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$10,587,900.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$317,637.00	
Design	LS		12.0%	\$1,270,548.00	
Construction Management	LS		12.0%	\$1,270,548.00	
Administration	LS		2.0%	\$211,758.00	
Insurance and Legal	LS		1.0%	\$105,879.00	
Contingency	LS		30.0%	\$3,176,370.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$6,352,740.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	50000	5.00	\$250,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$250,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	250,000.00	
ROW Subtotal				500,000.00	
SEGMENT TOTAL				\$17,440,640.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 35					
		From: Ave. Campo Rico		Stations: Calle Principal Sur	
		To: Calle Laurel			
		Length: 3000 Feet			
		0.57 Miles			
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	400.00	\$2,100.00	\$840,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,600	\$1,200.00	\$3,120,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$300,000.00	
Subtotal				\$4,260,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	3,000.00	\$300.00	\$900,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$900,000.00	
Systems					
Overhead Catenary System	LF	3000.00	\$500.00	\$1,500,000.00	
Signals	MI	0.57	\$200,000.00	\$114,000.00	
Control System	MI	0.57	\$150,000.00	\$85,500.00	
Communications	MI	0.57	\$75,000.00	\$42,750.00	
Traction Power Substations	MI	0.57	\$300,000.00	\$171,000.00	
Subtotal				\$1,913,250.00	
Guideway Subtotal				7,073,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$212,197.50	
Landscaping/Streetscaping	LS		3.0%	\$212,197.50	
Signing and Striping	LS		1.0%	\$70,732.50	
Traffic Control	LS		2.0%	\$141,465.00	
Mitigation	LS		3.0%	\$212,197.50	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	3000.00	1,000.00	\$3,000,000.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$3,000,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$4,048,790.00	
LINE SUBTOTAL				\$11,122,040.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$11,622,040.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$348,661.20	
Design	LS		12.0%	\$1,394,644.80	
Construction Management	LS		12.0%	\$1,394,644.80	
Administration	LS		2.0%	\$232,440.80	
Insurance and Legal	LS		1.0%	\$116,220.40	
Contingency	LS		30.0%	\$3,486,612.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$6,973,224.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	7000	5.00	\$35,000.00	Station area
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$35,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	35,000.00	
ROW Subtotal				70,000.00	
SEGMENT TOTAL				\$18,665,264.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 36					
From: Ave. Fidalgo Diaz		To: Ave. Fidalgo Diaz		Stations: Ave. Monserrate	
Length: 2525 Feet		0.48 Miles			
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	550.00	\$2,100.00	\$1,155,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,975	\$1,200.00	\$2,370,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$350,000.00	
Subtotal				\$3,875,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	1,875.00	\$300.00	\$562,500.00	
Major	LF	650	\$650.00	\$422,500.00	
Subtotal				\$985,000.00	
Systems					
Overhead Catenary System	LF	2525.00	\$500.00	\$1,262,500.00	
Signals	MI	0.48	\$200,000.00	\$96,000.00	
Control System	MI	0.48	\$150,000.00	\$72,000.00	
Communications	MI	0.48	\$75,000.00	\$36,000.00	
Traction Power Substations	MI	0.48	\$300,000.00	\$144,000.00	
Subtotal				\$1,610,500.00	
Guideway Subtotal				6,470,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$194,115.00	
Landscaping/Streetscaping	LS		3.0%	\$194,115.00	
Signaling and Striping	LS		1.0%	\$64,705.00	
Traffic Control	LS		2.0%	\$129,410.00	
Mitigation	LS		3.0%	\$194,115.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	2025.00	1,000.00	\$2,025,000.00	
High	LF	500.00	1,500.00	\$750,000.00	
Subtotal				\$2,775,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$3,751,460.00	
LINE SUBTOTAL				\$10,221,960.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$10,971,960.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$329,158.80	
Design	LS		12.0%	\$1,316,635.20	
Construction Management	LS		12.0%	\$1,316,635.20	
Administration	LS		2.0%	\$219,439.20	
Insurance and Legal	LS		1.0%	\$109,719.60	
Contingency	LS		30.0%	\$3,291,588.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$6,583,176.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	36000	5.00	\$180,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$180,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	180,000.00	
ROW Subtotal				360,000.00	
SEGMENT TOTAL				\$17,915,136.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE 37					
From: Ave. Fidalgo Diaz		To: Ave. Fidalgo Diaz		Stations: Ave. Fidalgo Diaz - South	
Length: 2550 Feet		0.49 Miles			
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	350.00	\$2,100.00	\$735,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,200	\$1,200.00	\$2,640,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$300,000.00	
Subtotal				\$3,675,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	2,550.00	\$300.00	\$765,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$765,000.00	
Systems					
Overhead Catenary System	LF	2550.00	\$500.00	\$1,275,000.00	
Signals	MI	0.49	\$200,000.00	\$98,000.00	
Control System	MI	0.49	\$150,000.00	\$73,500.00	
Communications	MI	0.49	\$75,000.00	\$36,750.00	
Traction Power Substations	MI	0.49	\$300,000.00	\$147,000.00	
Subtotal				\$1,630,250.00	
Guideway Subtotal				6,070,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$182,107.50	
Landscaping/Streetscaping	LS		3.0%	\$182,107.50	
Signing and Striping	LS		1.0%	\$60,702.50	
Traffic Control	LS		2.0%	\$121,405.00	
Mitigation	LS		3.0%	\$182,107.50	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	1950.00	1,000.00	\$1,950,000.00	
High	LF	600.00	1,500.00	\$900,000.00	
Subtotal				\$2,850,000.00	
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00	
General Cost Subtotal				\$3,578,430.00	
LINE SUBTOTAL				\$9,648,680.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$10,148,680.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$304,460.40	
Design	LS		12.0%	\$1,217,841.60	
Construction Management	LS		12.0%	\$1,217,841.60	
Administration	LS		2.0%	\$202,973.60	
Insurance and Legal	LS		1.0%	\$101,486.80	
Contingency	LS		30.0%	\$3,044,604.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$6,089,208.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	15000	5.00	\$75,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$75,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	75,000.00	
ROW Subtotal				150,000.00	
SEGMENT TOTAL				\$16,387,888.00	

Tranvía de Carolina Light Rail Project

PLATE 38	From: Ave. Fidalgo Diaz To: Plaza Carolina Length: 2025 Feet 0.39 Miles	Stations: Plaza Carolina - West			
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	750.00	\$2,100.00	\$1,575,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	975	\$1,200.00	\$1,170,000.00	
On-Structure (2 tracks)	LF	300.00	\$1,650.00	\$495,000.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$3,240,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF	300.00	\$8,400.00	\$2,520,000.00	
Subtotal				\$2,520,000.00	
Street Modification					
Minor	LF	1,600.00	\$300.00	\$480,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$480,000.00	
Systems					
Overhead Catenary System	LF	2025.00	\$500.00	\$1,012,500.00	
Signals	MI	0.39	\$200,000.00	\$78,000.00	
Control System	MI	0.39	\$150,000.00	\$58,500.00	
Communications	MI	0.39	\$75,000.00	\$29,250.00	
Traction Power Substations	MI	0.39	\$300,000.00	\$117,000.00	
Subtotal				\$1,295,250.00	
Guideway Subtotal				7,535,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$226,057.50	
Landscaping/Streetscaping	LS		3.0%	\$226,057.50	
Signaling and Striping	LS		1.0%	\$75,352.50	
Traffic Control	LS		2.0%	\$150,705.00	
Mitigation	LS		3.0%	\$226,057.50	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	1425.00	1,000.00	\$1,425,000.00	
High	LF	600.00	1,500.00	\$900,000.00	
Subtotal				\$2,325,000.00	
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00	
General Cost Subtotal				\$3,629,230.00	
LINE SUBTOTAL				\$11,164,480.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$11,914,480.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$357,434.40	
Design	LS		12.0%	\$1,429,737.60	
Construction Management	LS		12.0%	\$1,429,737.60	
Administration	LS		2.0%	\$238,289.60	
Insurance and Legal	LS		1.0%	\$119,144.80	
Contingency	LS		30.0%	\$3,574,344.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$7,148,688.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	15000	5.00	\$75,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$75,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	75,000.00	
ROW Subtotal				150,000.00	
SEGMENT TOTAL				\$19,213,168.00	

Tranvía de Carolina Light Rail Project - FACILITIES

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
MAINT. FACILITY					
Structure	LS	1	4,000,000.00	4,000,000.00	
Site Work	LS	1	750,000.00	750,000.00	
Elec/Mech/Plumbing	LS	1	1,000,000.00	1,000,000.00	
Guideway	LF	15000	500.00	7,500,000.00	
Switches	EA	20	50,000.00	1,000,000.00	
Tools/Machinery	LS	1	500,000.00	500,000.00	
Overhead Crane	LS	2	150,000.00	300,000.00	
Tow Vehicles	EA	2	100,000.00	200,000.00	
Recovery Vehicles	EA	4	250,000.00	1,000,000.00	
Wash Facility	LS	2	200,000.00	400,000.00	
SUBTOTAL				16,650,000.00	
Mobilization	LS	1.00	3.00%	499,500.00	
Design	LS	1.00	12.00%	1,998,000.00	
Construction Management	LS	1.00	12.00%	1,998,000.00	
Administration	LS	1.00	2.00%	333,000.00	
Insurance and Legal	LS	1.00	1.00%	166,500.00	
Contingency	LS	1.00	30.00%	4,995,000.00	
Municipality Tax (not included)	LS	0.00	0.00%	0.00	
Subtotal				9,990,000.00	
R/W Costs	SF	958000.00	20.00	19,160,000.00	
ROW Additive			25.00%	4,790,000.00	Because of large parcel size, this factor is reduced to 25% for this line item.
Subtotal				23,950,000.00	
TOTAL				50,590,000.00	
CENTRAL CONTROL FACILITY					
Structure	LS	1	2,000,000.00	2,000,000.00	
Elec/Mech/Plumbing	LS	1	200,000.00	200,000.00	
Site Work/Landscaping	LS	1	25,000.00	25,000.00	
Control System	LS	1	1,000,000.00	1,000,000.00	
Communication System	LS	1	1,000,000.00	1,000,000.00	
SUBTOTAL				4,225,000.00	
Mobilization	LS	1.00	3.00%	126,750.00	
Design	LS	1.00	12.00%	507,000.00	
Construction Management	LS	1.00	12.00%	507,000.00	
Administration	LS	1.00	2.00%	84,500.00	
Insurance and Legal	LS	1.00	1.00%	42,250.00	
Contingency	LS	1.00	30.00%	1,267,500.00	
Municipality Tax (not included)	LS	0.00	0.00%	0.00	
Subtotal				2,535,000.00	
R/W Costs	SF	0.00	20.00	0.00	Included in the above.
ROW Additive			25.00%	0.00	Because of large parcel size, this factor is reduced to 25% for this line item.
Subtotal				0.00	
TOTAL				6,760,000.00	

Tranvía de Carolina Light Rail Project

SEGMENT blank	From:				Stations:
	To:				
	Length:	0 Feet 0 Miles			
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE					
Guideway - Standard	LF	0.00	#REF!	#REF!	
Substructure - Standard	EA	0.00	#REF!	#REF!	
Guideway - Special	LF		0.00	0.00	
Substructure - Special	EA		0.00	0.00	
Walkway	LF	0.00	#REF!	#REF!	
Noise Abatement	LF	0.00	#REF!	#REF!	
Switches	EA	0	#REF!	#REF!	
Electrification	MILE	0.00	#REF!	#REF!	
Transformer Substations	EA	0.00	#REF!	#REF!	One per mile
Signals	MILE	0.00	#REF!	#REF!	
Control System	MILE	0.00	#REF!	#REF!	
Communication System	MILE	0.00	#REF!	#REF!	
			#REF!		
SUBTOTAL				#REF!	
Utility Relocation	LS	1.00	#REF!	#REF!	
Roadway Reconstruction	LS	1.00	#REF!	#REF!	
Signing & Striping	LS	1.00	#REF!	#REF!	
Traffic Control	LS	1.00	#REF!	#REF!	
LINE TOTAL				#REF!	
STATIONS					
Neighborhood (X S.F.)	EA		#REF!	#REF!	
Community (Y S.F.)	EA		#REF!	#REF!	
Regional (Z S.F.)	EA		#REF!	#REF!	
Bus Bays	EA		#REF!	#REF!	
Parking (400 SF/Space)	SP		#REF!	#REF!	
SUBTOTAL				#REF!	
Drainage	LS	1.00	#REF!	#REF!	
Urban Design/Landscaping	LS	1.00	#REF!	#REF!	
STATION TOTAL				#REF!	
SEGMENT SUBTOTAL				#REF!	
Mobilization	LS	1.00	#REF!	#REF!	
Contingencies	LS	1.00	#REF!	#REF!	
Design	LS	1.00	#REF!	#REF!	
Construction Management	LS	1.00	#REF!	#REF!	
Insurance and Legal	LS	1.00	#REF!	#REF!	
Subtotal				#REF!	
Right-of-Way Costs					
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
Subtotal				#REF!	
SEGMENT TOTAL				#REF!	

Tranvía de Carolina Light Rail Project - ALT. 3 COST SUMMARY

ELEMENT	LINE	STATION	INDIRECT COSTS	NET INDIRECT COSTS	CONTINGENCY	RIGHT-OF-WAY	TOTAL COST	REMARKS
PLATE A	\$8,592,364.00	\$750,000.00	\$5,605,418.40	\$2,802,709.20	\$2,802,709.20	\$2,514,000.00	\$17,461,782.40	
PLATE B	\$13,519,680.00	\$1,250,000.00	\$8,861,808.00	\$4,430,904.00	\$4,430,904.00	\$1,550,000.00	\$25,181,488.00	
PLATE C	\$6,880,440.00	\$0.00	\$3,784,242.00	\$2,064,132.00	\$1,720,110.00	\$1,400,000.00	\$12,064,682.00	
PLATE D	\$7,830,760.00	\$500,000.00	\$4,998,456.00	\$2,499,228.00	\$2,499,228.00	\$600,000.00	\$13,929,216.00	
PLATE E	\$13,111,200.00	\$500,000.00	\$8,166,720.00	\$4,083,360.00	\$4,083,360.00	\$150,000.00	\$21,927,920.00	
PLATE F	\$4,951,156.00	\$0.00	\$2,970,693.60	\$1,485,346.80	\$1,485,346.80	\$690,000.00	\$8,611,849.60	
PLATE G	\$8,017,880.00	\$750,000.00	\$5,260,728.00	\$2,630,364.00	\$2,630,364.00	\$1,005,000.00	\$15,033,608.00	
PLATE H	\$9,924,800.00	\$750,000.00	\$6,404,880.00	\$3,202,440.00	\$3,202,440.00	\$480,000.00	\$17,559,680.00	
PLATE I	\$13,194,040.00	\$750,000.00	\$8,366,424.00	\$4,183,212.00	\$4,183,212.00	\$1,165,000.00	\$23,475,464.00	
PLATE J	\$11,043,380.00	\$1,250,000.00	\$7,376,028.00	\$3,688,014.00	\$3,688,014.00	\$2,880,000.00	\$22,549,408.00	
PLATE K	\$13,436,000.00	\$750,000.00	\$8,511,600.00	\$4,255,800.00	\$4,255,800.00	\$3,245,000.00	\$25,942,600.00	
PLATE L	\$4,497,920.00	\$0.00	\$2,698,752.00	\$1,349,376.00	\$1,349,376.00	\$0.00	\$7,196,672.00	
PLATE M	\$10,451,280.00	\$2,000,000.00	\$7,470,768.00	\$3,735,384.00	\$3,735,384.00	\$5,245,000.00	\$25,167,048.00	
PLATE N	\$10,281,440.00	\$750,000.00	\$6,618,864.00	\$3,309,432.00	\$3,309,432.00	\$1,250,000.00	\$18,900,304.00	
PLATE O	\$9,670,200.00	\$500,000.00	\$6,102,120.00	\$3,051,060.00	\$3,051,060.00	\$8,900,000.00	\$25,172,320.00	
PLATE P	\$8,522,040.00	\$500,000.00	\$5,413,224.00	\$2,706,612.00	\$2,706,612.00	\$0.00	\$14,435,264.00	
PLATE Q	\$12,402,960.00	\$1,750,000.00	\$8,491,776.00	\$4,245,888.00	\$4,245,888.00	\$2,875,000.00	\$25,519,736.00	
PLATE R	\$7,420,660.00	\$2,000,000.00	\$5,652,396.00	\$2,826,198.00	\$2,826,198.00	\$3,120,000.00	\$18,193,056.00	
PLATE S	\$10,689,040.00	\$1,000,000.00	\$7,013,424.00	\$3,506,712.00	\$3,506,712.00	\$397,000.00	\$19,099,464.00	
Route 1 Subtotal	\$184,437,240.00	\$15,750,000.00	\$119,768,322.00	\$60,056,172.00	\$59,712,150.00	\$37,466,000.00	\$357,421,562.00	
PLATE T	\$5,286,800.00	\$1,250,000.00	\$3,922,080.00	\$1,961,040.00	\$1,961,040.00	\$0.00	\$10,458,880.00	
PLATE U	\$7,974,520.00	\$750,000.00	\$5,234,712.00	\$2,617,356.00	\$2,617,356.00	\$1,450,000.00	\$15,409,232.00	
PLATE V	\$21,699,040.00	\$2,250,000.00	\$14,369,424.00	\$7,184,712.00	\$7,184,712.00	\$6,600,000.00	\$44,918,464.00	
PLATE W	\$19,828,420.00	\$1,000,000.00	\$12,497,052.00	\$6,248,526.00	\$6,248,526.00	\$1,750,000.00	\$35,075,472.00	
PLATE X	\$9,004,720.00	\$2,250,000.00	\$6,752,832.00	\$3,376,416.00	\$3,376,416.00	\$330,000.00	\$18,337,552.00	
PLATE Y	\$10,395,120.00	\$500,000.00	\$6,537,072.00	\$3,268,536.00	\$3,268,536.00	\$790,000.00	\$18,222,192.00	
PLATE Z	\$11,976,140.00	\$1,250,000.00	\$7,935,684.00	\$3,967,842.00	\$3,967,842.00	\$12,000,000.00	\$33,161,824.00	
PLATE AA	\$2,837,240.00	\$0.00	\$1,702,344.00	\$851,172.00	\$851,172.00	\$0.00	\$4,539,584.00	
PLATE BB	\$8,509,560.00	\$500,000.00	\$5,405,736.00	\$2,702,868.00	\$2,702,868.00	\$387,500.00	\$14,802,796.00	
PLATE CC	\$9,368,920.00	\$500,000.00	\$5,921,352.00	\$2,960,676.00	\$2,960,676.00	\$150,000.00	\$15,940,272.00	
PLATE DD	\$10,651,320.00	\$750,000.00	\$6,840,792.00	\$3,420,396.00	\$3,420,396.00	\$360,000.00	\$18,602,112.00	
PLATE EE	\$9,648,680.00	\$500,000.00	\$6,089,208.00	\$3,044,604.00	\$3,044,604.00	\$150,000.00	\$16,387,888.00	
PLATE FF	\$10,035,360.00	\$750,000.00	\$6,471,216.00	\$3,235,608.00	\$3,235,608.00	\$300,000.00	\$17,556,576.00	
Route 2 Subtotal	\$137,215,840.00	\$12,250,000.00	\$89,679,504.00	\$44,839,752.00	\$44,839,752.00	\$24,267,500.00	\$263,412,844.00	
LINE SUBTOTAL	\$321,653,080.00	\$28,000,000.00	\$209,447,826.00	\$104,895,924.00	\$104,551,902.00	\$61,733,500.00	\$620,834,406.00	
MAINTENANCE FACILITY and EQUIPMENT		16,650,000.00	9,990,000.00	4,995,000.00	4,995,000.00	23,950,000.00	\$50,590,000.00	
ADMINISTRATIVE and CENTRAL CONTROL FACILITY and EQUIPMENT		4,225,000.00	2,535,000.00	1,267,500.00	1,267,500.00	0.00	\$6,760,000.00	
ROLLING STOCK (Train Cars)		85,000,000.00	0.00			0.00	\$85,000,000.00	
TOTAL	\$321,653,080.00	\$133,875,000.00	\$221,972,826.00	\$111,158,424.00	\$110,814,402.00	\$85,683,500.00	\$763,184,406.00	

Tranvía de Carolina Light Rail Project

UNIT COSTS

ITEM	UNIT	UNIT COST
LINE SECTION		
ITEM	UNIT	UNIT COST
LINE SECTION		
Guideway		
In-Street Section (2 tracks)	LF	\$2,100
In-Street Section (1 track)	LF	\$1,550
Ballast Section (2 tracks)	LF	\$1,200
On-Structure (2 tracks)	LF	\$1,650
Embankment Section with Walls - Additive	EA	\$500,000
Special Trackwork Items	LS	
<i>Subtotal</i>		
Structure		
Basic	LF	\$4,800
Long Span/Level 3	LF	\$8,400
<i>Subtotal</i>		
Street Modification		
Minor	LF	\$300
Major	LF	\$650
<i>Subtotal</i>		
Systems		
Overhead Catenary System	LF	\$500
Signals	MI	\$200,000
Control System	MI	\$150,000
Communications	MI	\$75,000
Traction Power Substations	MI	\$300,000
<i>Subtotal</i>		
GENERAL COSTS		
Drainage	LS	3.0%
Landscaping/Streetscaping	LS	3.0%
Signing and Striping	LS	1.0%
Traffic Control	LS	2.0%
Mitigation	LS	3.0%
Utility Relocation		
None	LF	\$0
Low	LF	\$500
Moderate	LF	\$1,000
High	LF	\$1,500
<i>Subtotal</i>		
Traffic Signal with Preemption	EA	\$200,000
<i>General Cost Subtotal</i>		
LINE SUBTOTAL		
STATIONS		
Local Stations	EA	\$500,000
Hub Stations	EA	\$750,000
Intermodal Stations	EA	\$1,000,000
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA	\$1,000,000
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA	\$1,500,000
<i>STATION SUBTOTAL</i>		
SUBTOTAL (LINE and STATIONS)		
INDIRECT COSTS		
Mobilization	LS	3%
Design	LS	12%
Construction Management	LS	12%
Administration	LS	2%
Insurance and Legal	LS	1%
Contingency	LS	30%
Municipality Tax (not included)	LS	0%
<i>Subtotal</i>		
RIGHT-OF-WAY		
Residential Land	SF	\$10
Residential Improved	SF	\$25
Commercial Land	SF	\$25
Commercial Improved	SF	\$60
Government Unimproved	SF	\$5
Other / Special	SF	\$75
Station - Residential	SF	\$25
Station - Commercial	SF	\$60
<i>Subtotal</i>		
ROW Acquisition Process Additive @ 75% (applied to ROW Subtotal) and Contingency @ 25%	LS	100%
<i>ROW Subtotal</i>		
SEGMENT TOTAL		

Special Trackwork Items	Units	Unit Cost
Box Culvert (two cell)	LF	\$2,500.00
U-channel with walls	LF	\$1,500.00
Double Track Crossover	EA	\$350,000.00
Single Track Crossover	EA	\$200,000.00
Track Junction	EA	\$250,000.00

Tranvía de Carolina Light Rail Project

PLATE A	From: Isla Verde To: Isla Verde Length: 1300 Feet 0.247 Miles			Stations: Isla Verde	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	225.00	\$2,100.00	\$472,500.00	
In-Street Section (1 track)	LF	0.00	\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	725	\$1,200.00	\$870,000.00	
On-Structure (2 tracks)	LF	350.00	\$1,650.00	\$577,500.00	
Embankment Section with Walls - Additive	EA	1.00	\$500,000.00	\$500,000.00	
Special Trackwork Items	LS			\$750,000.00	
Subtotal				\$3,170,000.00	
Structure					
Basic	LF	0.00	\$4,800.00	\$0.00	
Long Span/Level 3	LF	350.00	\$8,400.00	\$2,940,000.00	
Subtotal				\$2,940,000.00	
Street Modification					
Minor	LF	0.00	\$300.00	\$0.00	
Major	LF	200	\$650.00	\$130,000.00	
Subtotal				\$130,000.00	
Systems					
Overhead Catenary System	LF	1300.00	\$500.00	\$650,000.00	
Signals	MI	0.25	\$200,000.00	\$49,400.00	
Control System	MI	0.25	\$150,000.00	\$37,050.00	
Communications	MI	0.25	\$75,000.00	\$18,525.00	
Traction Power Substations	MI	0.25	\$300,000.00	\$74,100.00	
Subtotal				\$829,075.00	
Guideway Subtotal				7,069,075.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$212,072.25	
Landscaping/Streetscaping	LS		3.0%	\$212,072.25	
Signing and Striping	LS		1.0%	\$70,690.75	
Traffic Control	LS		2.0%	\$141,381.50	
Mitigation	LS		3.0%	\$212,072.25	
Utility Relocation					
None	LF	400	0.00	\$0.00	
Low	LF	450	500.00	\$225,000.00	
Moderate	LF	450.00	1,000.00	\$450,000.00	
High	LF	0.00	1,500.00	\$0.00	
Subtotal				\$675,000.00	
Traffic Signal with Preemption	EA	0	\$200,000.00	\$0.00	
General Cost Subtotal				\$1,523,289.00	
LINE SUBTOTAL				\$8,592,364.00	
STATIONS					
Local Stations	EA	0.00	\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA	0.00	\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA	0	\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA	0	\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$9,342,364.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$280,270.92	
Design	LS		12.0%	\$1,121,083.68	
Construction Management	LS		12.0%	\$1,121,083.68	
Administration	LS		2.0%	\$186,847.28	
Insurance and Legal	LS		1.0%	\$93,423.64	
Contingency	LS		30.0%	\$2,802,709.20	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$5,605,418.40	
RIGHT-OF-WAY					
Residential Land	SF	0	10.00	\$0.00	
Residential Improved	SF	0	25.00	\$0.00	
Commercial Land	SF	0	25.00	\$0.00	
Commercial Improved	SF	19200	60.00	\$1,152,000.00	
Government Unimproved	SF	21000	5.00	\$105,000.00	
Other / Special	SF	0	75.00	\$0.00	
Station - Residential	SF	0	25.00	\$0.00	
Station - Commercial	SF	0	60.00	\$0.00	
Subtotal				\$1,257,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	\$1,257,000.00	
ROW Subtotal				\$2,514,000.00	
SEGMENT TOTAL				\$17,461,782.40	

Tranvía de Carolina Light Rail Project					
PLATE B	From:	Isla Verde			Stations: Airport - Shuttle
	To:	PR-17			
	Length:	3050 Feet 0.58 Miles			
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	250.00	\$2,100.00	\$525,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,800	\$1,200.00	\$3,360,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA	1.00	\$500,000.00	\$500,000.00	
Special Trackwork Items	LS		\$0.00	\$1,750,000.00	
Subtotal				\$6,135,000.00	
Structure					
Basic	LF	20.00	\$4,800.00	\$96,000.00	
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00	
Subtotal				\$96,000.00	
Street Modification					
Minor	LF	0.00	\$300.00	\$0.00	
Major	LF	4000	\$650.00	\$2,600,000.00	
Subtotal				\$2,600,000.00	
Systems					
Overhead Catenary System	LF	3050.00	\$500.00	\$1,525,000.00	
Signals	MI	0.58	\$200,000.00	\$116,000.00	
Control System	MI	0.58	\$150,000.00	\$87,000.00	
Communications	MI	0.58	\$75,000.00	\$43,500.00	
Traction Power Substations	MI	0.58	\$300,000.00	\$174,000.00	
Subtotal				\$1,945,500.00	
Guideway Subtotal				10,776,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$323,295.00	
Landscaping/Streetscaping	LS		3.0%	\$323,295.00	
Signing and Striping	LS		1.0%	\$107,765.00	
Traffic Control	LS		2.0%	\$215,530.00	
Mitigation	LS		3.0%	\$323,295.00	
Utility Relocation					
None	LF	1450	0.00	\$0.00	
Low	LF	700	500.00	\$350,000.00	
Moderate	LF	500.00	1,000.00	\$500,000.00	
High	LF	400.00	1,500.00	\$600,000.00	
Subtotal				\$1,450,000.00	
Traffic Signal with Preemption	EA	0	\$200,000.00	\$0.00	
General Cost Subtotal				\$2,743,180.00	
LINE SUBTOTAL				\$13,519,680.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$1,250,000.00	
SUBTOTAL (LINE and STATIONS)				\$14,769,680.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$443,090.40	
Design	LS		12.0%	\$1,772,361.60	
Construction Management	LS		12.0%	\$1,772,361.60	
Administration	LS		2.0%	\$295,393.60	
Insurance and Legal	LS		1.0%	\$147,696.80	
Contingency	LS		30.0%	\$4,430,904.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$8,861,808.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF	15000	25.00	\$375,000.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	80000	5.00	\$400,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$775,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	775,000.00	
ROW Subtotal				1,550,000.00	
SEGMENT TOTAL				\$25,181,488.00	

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE C					
		From: Laguna Gardens To: Los Angeles Length: 1950 Feet 0.37 Miles			Stations: Los Angeles
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	200.00	\$2,100.00	\$420,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,750	\$1,200.00	\$2,100,000.00	
On-Structure (2 tracks)	LF	0.00	\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA	0.00	\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$350,000.00	
Subtotal				\$2,870,000.00	
Structure					
Basic	LF	0.00	\$4,800.00	\$0.00	
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	0.00	\$300.00	\$0.00	
Major	LF	1200	\$650.00	\$780,000.00	
Subtotal				\$780,000.00	
Systems					
Overhead Catenary System	LF	1950.00	\$500.00	\$975,000.00	
Signals	MI	0.37	\$200,000.00	\$74,000.00	
Control System	MI	0.37	\$150,000.00	\$55,500.00	
Communications	MI	0.37	\$75,000.00	\$27,750.00	
Traction Power Substations	MI	0.37	\$300,000.00	\$111,000.00	
Subtotal				\$1,243,250.00	
Guideway Subtotal				4,893,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$146,797.50	
Landscaping/Streetscaping	LS		3.0%	\$146,797.50	
Signing and Striping	LS		1.0%	\$48,932.50	
Traffic Control	LS		2.0%	\$97,865.00	
Mitigation	LS		3.0%	\$146,797.50	
Utility Relocation					
None	LF	950	0.00	\$0.00	
Low	LF	0	500.00	\$0.00	
Moderate	LF	1000.00	1,000.00	\$1,000,000.00	
High	LF	0.00	1,500.00	\$0.00	
Subtotal				\$1,000,000.00	
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00	
General Cost Subtotal				\$1,987,190.00	
LINE SUBTOTAL				\$6,880,440.00	
STATIONS					
Local Stations	EA	0.00	\$500,000.00	\$0.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
SUBTOTAL (LINE and STATIONS)				\$6,880,440.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$206,413.20	
Design	LS		12.0%	\$825,652.80	
Construction Management	LS		12.0%	\$825,652.80	
Administration	LS		2.0%	\$137,608.80	
Insurance and Legal	LS		1.0%	\$68,804.40	
Contingency	LS		25.0%	\$1,720,110.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$3,784,242.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF	22000	25.00	\$550,000.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	30000	5.00	\$150,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$700,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	700,000.00	
ROW Subtotal				1,400,000.00	
SEGMENT TOTAL				\$12,064,682.00	

Tranvía de Carolina Light Rail Project

PLATE D	From:	PR-17	To:	Laguna Gardens	Stations:	Laguna Gardens
	Length:	2000 Feet		0.38 Miles		
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF	400.00	\$2,100.00	\$840,000.00		
In-Street Section (1 track)	LF	0.00	\$1,550.00	\$0.00		
Ballast Section (2 tracks)	LF	1,400	\$1,200.00	\$1,680,000.00		
On-Structure (2 tracks)	LF	200.00	\$1,650.00	\$330,000.00		
Embankment Section with Walls - Additive	EA	0.00	\$500,000.00	\$0.00		
Special Trackwork Items	LS		\$0.00	\$1,125,000.00		
Subtotal				\$3,975,000.00		
Structure						
Basic	LF	200.00	\$4,800.00	\$960,000.00		
Long Span/Level 3	LF		\$8,400.00	\$0.00		
Subtotal				\$960,000.00		
Street Modification						
Minor	LF		\$300.00	\$0.00		
Major	LF		\$650.00	\$0.00		
Subtotal				\$0.00		
Systems						
Overhead Catenary System	LF	2000.00	\$500.00	\$1,000,000.00		
Signals	MI	0.38	\$200,000.00	\$76,000.00		
Control System	MI	0.38	\$150,000.00	\$57,000.00		
Communications	MI	0.38	\$75,000.00	\$28,500.00		
Traction Power Substations	MI	0.38	\$300,000.00	\$114,000.00		
Subtotal				\$1,275,500.00		
Guideway Subtotal				6,210,500.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$186,315.00		
Landscaping/Streetscaping	LS		3.0%	\$186,315.00		
Signing and Striping	LS		1.0%	\$62,105.00		
Traffic Control	LS		2.0%	\$124,210.00		
Mitigation	LS		3.0%	\$186,315.00		
Utility Relocation						
None	LF		0.00	\$0.00		
Low	LF		500.00	\$0.00		
Moderate	LF	250.00	1,000.00	\$250,000.00		
High	LF	150.00	1,500.00	\$225,000.00		
Subtotal				\$475,000.00		
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00		
General Cost Subtotal				\$1,620,260.00		
LINE SUBTOTAL				\$7,830,760.00		
STATIONS						
Local Stations	EA	1.00	\$500,000.00	\$500,000.00		
Hub Stations	EA		\$750,000.00	\$0.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$500,000.00		
SUBTOTAL (LINE and STATIONS)				\$8,330,760.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$249,922.80		
Design	LS		12.0%	\$999,691.20		
Construction Management	LS		12.0%	\$999,691.20		
Administration	LS		2.0%	\$166,615.20		
Insurance and Legal	LS		1.0%	\$83,307.60		
Contingency	LS		30.0%	\$2,499,228.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$4,998,456.00		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF		25.00	\$0.00		
Commercial Improved	SF		60.00	\$0.00		
Government Unimproved	SF	60000	5.00	\$300,000.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$300,000.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	300,000.00		
ROW Subtotal				600,000.00		
SEGMENT TOTAL				\$13,929,216.00		

Tranvía de Carolina Light Rail Project

PLATE E	From: Los Angeles To: Canal Suarez Length: 2900 Feet 0.55 Miles			Stations: Los Angeles	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	725.00	\$2,100.00	\$1,522,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,800	\$1,200.00	\$2,160,000.00	
On-Structure (2 tracks)	LF	375.00	\$1,650.00	\$618,750.00	
Embankment Section with Walls - Additive	EA	2.00	\$500,000.00	\$1,000,000.00	
Special Trackwork Items	LS			\$1,000,000.00	
Subtotal				\$6,301,250.00	
Structure					
Basic	LF	375.00	\$4,800.00	\$1,800,000.00	
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00	
Subtotal				\$1,800,000.00	
Street Modification					
Minor	LF	200.00	\$300.00	\$60,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$60,000.00	
Systems					
Overhead Catenary System	LF	2900.00	\$500.00	\$1,450,000.00	
Signals	MI	0.55	\$200,000.00	\$110,000.00	
Control System	MI	0.55	\$150,000.00	\$82,500.00	
Communications	MI	0.55	\$75,000.00	\$41,250.00	
Traction Power Substations	MI	0.55	\$300,000.00	\$165,000.00	
Subtotal				\$1,848,750.00	
Guideway Subtotal				10,010,000.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$300,300.00	
Landscaping/Streetscaping	LS		3.0%	\$300,300.00	
Signing and Striping	LS		1.0%	\$100,100.00	
Traffic Control	LS		2.0%	\$200,200.00	
Mitigation	LS		3.0%	\$300,300.00	
Utility Relocation					
None	LF	600	0.00	\$0.00	
Low	LF	1000	500.00	\$500,000.00	
Moderate	LF	1100.00	1,000.00	\$1,100,000.00	
High	LF	200.00	1,500.00	\$300,000.00	
Subtotal				\$1,900,000.00	
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00	
General Cost Subtotal				\$3,101,200.00	
LINE SUBTOTAL				\$13,111,200.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$13,611,200.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$408,336.00	
Design	LS		12.0%	\$1,633,344.00	
Construction Management	LS		12.0%	\$1,633,344.00	
Administration	LS		2.0%	\$272,224.00	
Insurance and Legal	LS		1.0%	\$136,112.00	
Contingency	LS		30.0%	\$4,083,360.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$8,166,720.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	15000	5.00	\$75,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$75,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	75,000.00	
ROW Subtotal				150,000.00	
SEGMENT TOTAL				\$21,927,920.00	

Tranvía de Carolina Light Rail Project

PLATE F	From:	Canal Suarez			Stations:	None
	To:	Ave. Iturregui				
	Length:	2300 Feet				
		0.44 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00		
In-Street Section (1 track)	LF		\$1,550.00	\$0.00		
Ballast Section (2 tracks)	LF	2,300	\$1,200.00	\$2,760,000.00		
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00		
Embankment Section with Walls - A	EA		\$500,000.00	\$0.00		
Special Trackwork Items	LS		\$0.00	\$191,675.00		
Subtotal				\$2,951,675.00		
Structure						
Basic	LF	0.00	\$4,800.00	\$0.00		
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00		
Subtotal				\$0.00		
Street Modification						
Minor	LF	0.00	\$300.00	\$0.00		
Major	LF	0	\$650.00	\$0.00		
Subtotal				\$0.00		
Systems						
Overhead Catenary System	LF	2300.00	\$500.00	\$1,150,000.00		
Signals	MI	0.44	\$200,000.00	\$88,000.00		
Control System	MI	0.44	\$150,000.00	\$66,000.00		
Communications	MI	0.44	\$75,000.00	\$33,000.00		
Traction Power Substations	MI	0.44	\$300,000.00	\$132,000.00		
Subtotal				\$1,469,000.00		
Guideway Subtotal				4,420,675.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$132,620.25		
Landscaping/Streetscaping	LS		3.0%	\$132,620.25		
Signing and Striping	LS		1.0%	\$44,206.75		
Traffic Control	LS		2.0%	\$88,413.50		
Mitigation	LS		3.0%	\$132,620.25		
Utility Relocation						
None	LF	2300	0.00	\$0.00		
Low	LF	0	500.00	\$0.00		
Moderate	LF	0.00	1,000.00	\$0.00		
High	LF	0.00	1,500.00	\$0.00		
Subtotal				\$0.00		
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00		
General Cost Subtotal				\$530,481.00		
LINE SUBTOTAL				\$4,951,156.00		
STATIONS						
Local Stations	EA	0.00	\$500,000.00	\$0.00		
Hub Stations	EA	0.00	\$750,000.00	\$0.00		
Intermodal Stations	EA	0.00	\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$0.00		
JBTOTAL (LINE and STATIONS)				\$4,951,156.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$148,534.68		
Design	LS		12.0%	\$594,138.72		
Construction Management	LS		12.0%	\$594,138.72		
Administration	LS		2.0%	\$99,023.12		
Insurance and Legal	LS		1.0%	\$49,511.56		
Contingency	LS		30.0%	\$1,485,346.80		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$2,970,693.60		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF		25.00	\$0.00		
Commercial Improved	SF		60.00	\$0.00		
Government Unimproved	SF	69000	5.00	\$345,000.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$345,000.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	345,000.00		
ROW Subtotal				690,000.00		
SEGMENT TOTAL				\$8,611,849.60		

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE G	From: Sports City To: Ave. Comandante Length: 3350 Feet 0.64 Miles			Stations: Sports City	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	350.00	\$2,100.00	\$735,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	3,000	\$1,200.00	\$3,600,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$350,000.00	
Subtotal				\$4,685,000.00	
Structure					
Basic	LF	0.00	\$4,800.00	\$0.00	
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	0.00	\$300.00	\$0.00	
Major	LF	0	\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	3350.00	\$500.00	\$1,675,000.00	
Signals	MI	0.64	\$200,000.00	\$128,000.00	
Control System	MI	0.64	\$150,000.00	\$96,000.00	
Communications	MI	0.64	\$75,000.00	\$48,000.00	
Traction Power Substations	MI	0.64	\$300,000.00	\$192,000.00	
Subtotal				\$2,139,000.00	
Guideway Subtotal				6,824,000.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$204,720.00	
Landscaping/Streetscaping	LS		3.0%	\$204,720.00	
Signing and Striping	LS		1.0%	\$68,240.00	
Traffic Control	LS		2.0%	\$136,480.00	
Mitigation	LS		3.0%	\$204,720.00	
Utility Relocation					
None	LF	3000	0.00	\$0.00	
Low	LF	350	500.00	\$175,000.00	
Moderate	LF		1,000.00	\$0.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$175,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$1,193,880.00	
LINE SUBTOTAL				\$8,017,880.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$8,767,880.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$263,036.40	
Design	LS		12.0%	\$1,052,145.60	
Construction Management	LS		12.0%	\$1,052,145.60	
Administration	LS		2.0%	\$175,357.60	
Insurance and Legal	LS		1.0%	\$87,678.80	
Contingency	LS		30.0%	\$2,630,364.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$5,260,728.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	100500	5.00	\$502,500.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$502,500.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	502,500.00	
ROW Subtotal				1,005,000.00	
SEGMENT TOTAL				\$15,033,608.00	

Tranvía de Carolina Light Rail Project

PLATE H	From: Ave. Comandante To: Calle B Length: 2625 Feet 0.50 Miles			Stations: AMA Transfer Center	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	425.00	\$2,100.00	\$892,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,100	\$1,200.00	\$2,520,000.00	
On-Structure (2 tracks)	LF	100.00	\$1,650.00	\$165,000.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$1,475,000.00	
Subtotal				\$5,052,500.00	
Structure					
Basic	LF	100.00	\$4,800.00	\$480,000.00	
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00	
Subtotal				\$480,000.00	
Street Modification					
Minor	LF	900.00	\$300.00	\$270,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$270,000.00	
Systems					
Overhead Catenary System	LF	2625.00	\$500.00	\$1,312,500.00	
Signals	MI	0.50	\$200,000.00	\$100,000.00	
Control System	MI	0.50	\$150,000.00	\$75,000.00	
Communications	MI	0.50	\$75,000.00	\$37,500.00	
Traction Power Substations	MI	0.50	\$300,000.00	\$150,000.00	
Subtotal				\$1,675,000.00	
Guideway Subtotal				7,477,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$224,325.00	
Landscaping/Streetscaping	LS		3.0%	\$224,325.00	
Signing and Striping	LS		1.0%	\$74,775.00	
Traffic Control	LS		2.0%	\$149,550.00	
Mitigation	LS		3.0%	\$224,325.00	
Utility Relocation					
None	LF	925	0.00	\$0.00	
Low	LF	700	500.00	\$350,000.00	
Moderate	LF	1000.00	1,000.00	\$1,000,000.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$1,350,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$2,447,300.00	
LINE SUBTOTAL				\$9,924,800.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$10,674,800.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$320,244.00	
Design	LS		12.0%	\$1,280,976.00	
Construction Management	LS		12.0%	\$1,280,976.00	
Administration	LS		2.0%	\$213,496.00	
Insurance and Legal	LS		1.0%	\$106,748.00	
Contingency	LS		30.0%	\$3,202,440.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$6,404,880.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	48000	5.00	\$240,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$240,000.00	
ROW Acquisition Process Additive @ 50% (applied to ROW Subtotal)	LS		100.0%	240,000.00	
ROW Subtotal				480,000.00	
SEGMENT TOTAL				\$17,559,680.00	

Tranvía de Carolina Light Rail Project

PLATE I	From:	Calle B	To:	PR-26	Stations:	Ave. Campo Rico
	Length:	2725 Feet 0.52 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00		
In-Street Section (1 track)	LF		\$1,550.00	\$0.00		
Ballast Section (2 tracks)	LF	2,525	\$1,200.00	\$3,030,000.00		
On-Structure (2 tracks)	LF	200.00	\$1,650.00	\$330,000.00		
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00		
Special Trackwork Items	LS		\$0.00	\$2,800,000.00		
Subtotal				\$6,160,000.00		
Structure						
Basic	LF		\$4,800.00	\$0.00		
Long Span/Level 3	LF	250.00	\$8,400.00	\$2,100,000.00		
Subtotal				\$2,100,000.00		
Street Modification						
Minor	LF	1,100.00	\$300.00	\$330,000.00		
Major	LF		\$650.00	\$0.00		
Subtotal				\$330,000.00		
Systems						
Overhead Catenary System	LF	2725.00	\$500.00	\$1,362,500.00		
Signals	MI	0.52	\$200,000.00	\$104,000.00		
Control System	MI	0.52	\$150,000.00	\$78,000.00		
Communications	MI	0.52	\$75,000.00	\$39,000.00		
Traction Power Substations	MI	0.52	\$300,000.00	\$156,000.00		
Subtotal				\$1,739,500.00		
Guideway Subtotal				10,329,500.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$309,885.00		
Landscaping/Streetscaping	LS		3.0%	\$309,885.00		
Signing and Striping	LS		1.0%	\$103,295.00		
Traffic Control	LS		2.0%	\$206,590.00		
Mitigation	LS		3.0%	\$309,885.00		
Utility Relocation						
None	LF		0.00	\$0.00		
Low	LF	2200	500.00	\$1,100,000.00		
Moderate	LF	525.00	1,000.00	\$525,000.00		
High	LF		1,500.00	\$0.00		
Subtotal				\$1,625,000.00		
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00		
General Cost Subtotal				\$2,864,540.00		
LINE SUBTOTAL				\$13,194,040.00		
STATIONS						
Local Stations	EA		\$500,000.00	\$0.00		
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$750,000.00		
SUBTOTAL (LINE and STATIONS)				\$13,944,040.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$418,321.20		
Design	LS		12.0%	\$1,673,284.80		
Construction Management	LS		12.0%	\$1,673,284.80		
Administration	LS		2.0%	\$278,880.80		
Insurance and Legal	LS		1.0%	\$139,440.40		
Contingency	LS		30.0%	\$4,183,212.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$8,366,424.00		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF	15500	25.00	\$387,500.00		
Commercial Improved	SF		60.00	\$0.00		
Government Unimproved	SF	39000	5.00	\$195,000.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$582,500.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	582,500.00		
ROW Subtotal				1,165,000.00		
SEGMENT TOTAL				\$23,475,464.00		

Tranvía de Carolina Light Rail Project

PLATE J	From:	PR-26	To:	Ave. Monserrate	Stations:	Univ. of the East PR-190 South
	Length:	2825 Feet 0.54 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF	1,000.00	\$2,100.00	\$2,100,000.00		
In-Street Section (1 track)	LF		\$1,550.00	\$0.00		
Ballast Section (2 tracks)	LF	1,825	\$1,200.00	\$2,190,000.00		
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00		
Embankment Section with Walls - Additive	EA	2.00	\$500,000.00	\$1,000,000.00		
Special Trackwork Items	LS		\$0.00	\$0.00		
Subtotal				\$5,290,000.00		
Structure						
Basic	LF	0.00	\$4,800.00	\$0.00		
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00		
Subtotal				\$0.00		
Street Modification						
Minor	LF	850.00	\$300.00	\$255,000.00		
Major	LF		\$650.00	\$0.00		
Subtotal				\$255,000.00		
Systems						
Overhead Catenary System	LF	2825.00	\$500.00	\$1,412,500.00		
Signals	MI	0.54	\$200,000.00	\$108,000.00		
Control System	MI	0.54	\$150,000.00	\$81,000.00		
Communications	MI	0.54	\$75,000.00	\$40,500.00		
Traction Power Substations	MI	0.54	\$300,000.00	\$162,000.00		
Subtotal				\$1,804,000.00		
Guideway Subtotal				7,349,000.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$220,470.00		
Landscaping/Streetscaping	LS		3.0%	\$220,470.00		
Signing and Striping	LS		1.0%	\$73,490.00		
Traffic Control	LS		2.0%	\$146,980.00		
Mitigation	LS		3.0%	\$220,470.00		
Utility Relocation						
None	LF		0.00	\$0.00		
Low	LF	825	500.00	\$412,500.00		
Moderate	LF	2000.00	1,000.00	\$2,000,000.00		
High	LF		1,500.00	\$0.00		
Subtotal				\$2,412,500.00		
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00		
General Cost Subtotal				\$3,694,380.00		
LINE SUBTOTAL				\$11,043,380.00		
STATIONS						
Local Stations	EA	1.00	\$500,000.00	\$500,000.00		
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$1,250,000.00		
SUBTOTAL (LINE and STATIONS)				\$12,293,380.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$368,801.40		
Design	LS		12.0%	\$1,475,205.60		
Construction Management	LS		12.0%	\$1,475,205.60		
Administration	LS		2.0%	\$245,867.60		
Insurance and Legal	LS		1.0%	\$122,933.80		
Contingency	LS		30.0%	\$3,688,014.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$7,376,028.00		
RIGHT-OF-WAY						
Residential Land	SF	25000	10.00	\$250,000.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF	14000	25.00	\$350,000.00		
Commercial Improved	SF	14000	60.00	\$840,000.00		
Government Unimproved	SF		5.00	\$0.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$1,440,000.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	1,440,000.00		
ROW Subtotal				2,880,000.00		
SEGMENT TOTAL				\$22,549,408.00		

Tranvía de Carolina Light Rail Project

PLATE K	From: South PR-190 To: PR-26 Length: 2600 Feet 0.5 Miles			Stations: Ave. Monserrate	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	2,200.00	\$2,100.00	\$4,620,000.00	
In-Street Section (1 track)	LF	500.00	\$1,550.00	\$775,000.00	Rte. 1 to Rte. 2 Connection
Ballast Section (2 tracks)	LF	400	\$1,200.00	\$480,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA	2.00	\$500,000.00	\$1,000,000.00	
Special Trackwork Items	LS			\$275,000.00	
Subtotal				\$7,150,000.00	
Structure					
Basic	LF	0.00	\$4,800.00	\$0.00	
Long Span/Level 3	LF	200.00	\$8,400.00	\$1,680,000.00	Transit under Ave. Monserrate
Subtotal				\$1,680,000.00	
Street Modification					
Minor	LF	400.00	\$300.00	\$120,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$120,000.00	
Systems					
Overhead Catenary System	LF	2600.00	\$500.00	\$1,300,000.00	
Signals	MI	0.50	\$200,000.00	\$100,000.00	
Control System	MI	0.50	\$150,000.00	\$75,000.00	
Communications	MI	0.50	\$75,000.00	\$37,500.00	
Traction Power Substations	MI	0.50	\$300,000.00	\$150,000.00	
Subtotal				\$1,662,500.00	
Guideway Subtotal				10,612,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$318,375.00	
Landscaping/Streetscaping	LS		3.0%	\$318,375.00	
Signing and Striping	LS		1.0%	\$106,125.00	
Traffic Control	LS		2.0%	\$212,250.00	
Mitigation	LS		3.0%	\$318,375.00	
Utility Relocation					
None	LF	1800	0.00	\$0.00	
Low	LF	0	500.00	\$0.00	
Moderate	LF	500.00	1,000.00	\$500,000.00	
High	LF	300.00	1,500.00	\$450,000.00	
Subtotal				\$950,000.00	
Traffic Signal with Preemption	EA	3	\$200,000.00	\$600,000.00	
General Cost Subtotal				\$2,823,500.00	
LINE SUBTOTAL				\$13,436,000.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$750,000.00	
SUBTOTAL (LINE and STATIONS)				\$14,186,000.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$425,580.00	
Design	LS		12.0%	\$1,702,320.00	
Construction Management	LS		12.0%	\$1,702,320.00	
Administration	LS		2.0%	\$283,720.00	
Insurance and Legal	LS		1.0%	\$141,860.00	
Contingency	LS		30.0%	\$4,255,800.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$8,511,600.00	
RIGHT-OF-WAY					
Residential Land	SF	6000	10.00	\$60,000.00	
Residential Improved	SF	62500	25.00	\$1,562,500.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$1,622,500.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	1,622,500.00	
ROW Subtotal				3,245,000.00	
SEGMENT TOTAL				\$25,942,600.00	

Tranvía de Carolina Light Rail Project

PLATE L		From: PR-26 To: Ave. Fragoso Length: 2125 Feet 0.41 Miles			Stations: None
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,125	\$1,200.00	\$2,550,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$106,250.00	
Subtotal				\$2,656,250.00	
Structure					
Basic	LF	0.00	\$4,800.00	\$0.00	
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF		\$300.00	\$0.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	2125.00	\$500.00	\$1,062,500.00	
Signals	MI	0.41	\$200,000.00	\$82,000.00	
Control System	MI	0.41	\$150,000.00	\$61,500.00	
Communications	MI	0.41	\$75,000.00	\$30,750.00	
Traction Power Substations	MI	0.41	\$300,000.00	\$123,000.00	
Subtotal				\$1,359,750.00	
Guideway Subtotal				4,016,000.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$120,480.00	
Landscaping/Streetscaping	LS		3.0%	\$120,480.00	
Signing and Striping	LS		1.0%	\$40,160.00	
Traffic Control	LS		2.0%	\$80,320.00	
Mitigation	LS		3.0%	\$120,480.00	
Utility Relocation					
None	LF	2125	0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF		1,000.00	\$0.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$0.00	
Traffic Signal with Preemption	EA	0	\$200,000.00	\$0.00	
General Cost Subtotal				\$481,920.00	
LINE SUBTOTAL				\$4,497,920.00	
STATIONS					
Local Stations	EA	0.00	\$500,000.00	\$0.00	
Hub Stations	EA	0.00	\$750,000.00	\$0.00	
Intermodal Stations	EA	0.00	\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
SUBTOTAL (LINE and STATIONS)				\$4,497,920.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$134,937.60	
Design	LS		12.0%	\$539,750.40	
Construction Management	LS		12.0%	\$539,750.40	
Administration	LS		2.0%	\$89,958.40	
Insurance and Legal	LS		1.0%	\$44,979.20	
Contingency	LS		30.0%	\$1,349,376.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$2,698,752.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$0.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	0.00	
ROW Subtotal				0.00	
SEGMENT TOTAL				\$7,196,672.00	

Tranvía de Carolina Light Rail Project

PLATE M	From: Ave. Fragoso To: PR-3 Length: 2800 Feet 0.54 Miles		Stations: Ave. Fragoso		
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	250.00	\$2,100.00	\$525,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,250	\$1,200.00	\$2,700,000.00	
On-Structure (2 tracks)	LF	300.00	\$1,650.00	\$495,000.00	
Embankment Section with Walls - Additive	EA	1.00	\$500,000.00	\$500,000.00	
Special Trackwork Items	LS		\$0.00	\$350,000.00	
Subtotal				\$4,570,000.00	
Structure					
Basic	LF	300.00	\$4,800.00	\$1,440,000.00	100 ft. @ Fragoso; 200 ft. at PR-3 NB exit ramps
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$1,440,000.00	
Street Modification					
Minor	LF	1,000.00	\$300.00	\$300,000.00	Mall perimeter road.
Major	LF	450	\$650.00	\$292,500.00	PR-3 ramp
Subtotal				\$592,500.00	
Systems					
Overhead Catenary System	LF	2800.00	\$500.00	\$1,400,000.00	
Signals	MI	0.54	\$200,000.00	\$108,000.00	
Control System	MI	0.54	\$150,000.00	\$81,000.00	
Communications	MI	0.54	\$75,000.00	\$40,500.00	
Traction Power Substations	MI	0.54	\$300,000.00	\$162,000.00	
Subtotal				\$1,791,500.00	
Guideway Subtotal				8,394,000.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$251,820.00	
Landscaping/Streetscaping	LS		3.0%	\$251,820.00	
Signing and Striping	LS		1.0%	\$83,940.00	
Traffic Control	LS		2.0%	\$167,880.00	
Mitigation	LS		3.0%	\$251,820.00	
Utility Relocation					
None	LF	700	0.00	\$0.00	
Low	LF	2100	500.00	\$1,050,000.00	
Moderate	LF		1,000.00	\$0.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$1,050,000.00	
Traffic Signal with Preemption	EA	0	\$200,000.00	\$0.00	
General Cost Subtotal				\$2,057,280.00	
LINE SUBTOTAL				\$10,451,280.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA	1.00	\$1,000,000.00	\$1,000,000.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA	1	\$1,000,000.00	\$1,000,000.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$2,000,000.00	
SUBTOTAL (LINE and STATIONS)				\$12,451,280.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$373,538.40	
Design	LS		12.0%	\$1,494,153.60	
Construction Management	LS		12.0%	\$1,494,153.60	
Administration	LS		2.0%	\$249,025.60	
Insurance and Legal	LS		1.0%	\$124,512.80	
Contingency	LS		30.0%	\$3,735,384.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$7,470,768.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF	4900	25.00	\$122,500.00	
Commercial Land	SF	25000	25.00	\$625,000.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	375000	5.00	\$1,875,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$2,622,500.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	2,622,500.00	
ROW Subtotal				5,245,000.00	
SEGMENT TOTAL				\$25,167,048.00	

Tranvía de Carolina Light Rail Project

PLATE N	From:	PR-3	To:	Canal Blasina	Length:	2700 Feet 0.52 Miles	Stations:	Plaza Carolina - East
ITEM	UNIT	QUANTITY	UNIT COST	COST		REMARKS		
LINE SECTION								
Guideway								
In-Street Section (2 tracks)	LF	500.00	\$2,100.00	\$1,050,000.00				
In-Street Section (1 track)	LF		\$1,550.00	\$0.00				
Ballast Section (2 tracks)	LF	1,850	\$1,200.00	\$2,220,000.00				
On-Structure (2 tracks)	LF	350.00	\$1,650.00	\$577,500.00				
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00				
Special Trackwork Items	LS		\$0.00	\$0.00				
Subtotal				\$3,847,500.00				
Structure								
Basic	LF	350.00	\$4,800.00	\$1,680,000.00				
Long Span/Level 3	LF		\$8,400.00	\$0.00				
Subtotal				\$1,680,000.00				
Street Modification								
Minor	LF	1,100.00	\$300.00	\$330,000.00		Mall perimeter road relocation		
Major	LF	600	\$650.00	\$390,000.00		Ave. Sanchez Castano relocation		
Subtotal				\$720,000.00				
Systems								
Overhead Catenary System	LF	2700.00	\$500.00	\$1,350,000.00				
Signals	MI	0.52	\$200,000.00	\$104,000.00				
Control System	MI	0.52	\$150,000.00	\$78,000.00				
Communications	MI	0.52	\$75,000.00	\$39,000.00				
Traction Power Substations	MI	0.52	\$300,000.00	\$156,000.00				
Subtotal				\$1,727,000.00				
Guideway Subtotal				7,974,500.00				
GENERAL COSTS								
Drainage	LS		3.0%	\$239,235.00				
Landscaping/Streetscaping	LS		3.0%	\$239,235.00				
Signing and Striping	LS		1.0%	\$79,745.00				
Traffic Control	LS		2.0%	\$159,490.00				
Mitigation	LS		3.0%	\$239,235.00				
Utility Relocation								
None	LF	1500	0.00	\$0.00				
Low	LF	500	500.00	\$250,000.00				
Moderate	LF	700.00	1,000.00	\$700,000.00				
High	LF		1,500.00	\$0.00				
Subtotal				\$950,000.00				
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00				
General Cost Subtotal				\$2,306,940.00				
LINE SUBTOTAL				\$10,281,440.00				
STATIONS								
Local Stations	EA		\$500,000.00	\$0.00				
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00				
Intermodal Stations	EA		\$1,000,000.00	\$0.00				
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00				
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00				
STATION SUBTOTAL				\$750,000.00				
SUBTOTAL (LINE and STATIONS)				\$11,031,440.00				
INDIRECT COSTS								
Mobilization	LS		3.0%	\$330,943.20				
Design	LS		12.0%	\$1,323,772.80				
Construction Management	LS		12.0%	\$1,323,772.80				
Administration	LS		2.0%	\$220,628.80				
Insurance and Legal	LS		1.0%	\$110,314.40				
Contingency	LS		30.0%	\$3,309,432.00				
Municipality Tax (not included)	LS		0.0%	\$0.00				
Subtotal				\$6,618,864.00				
RIGHT-OF-WAY								
Residential Land	SF		10.00	\$0.00				
Residential Improved	SF		25.00	\$0.00				
Commercial Land	SF	20000	25.00	\$500,000.00				
Commercial Improved	SF		60.00	\$0.00				
Government Unimproved	SF	25000	5.00	\$125,000.00				
Other / Special	SF		75.00	\$0.00				
Station - Residential	SF		25.00	\$0.00				
Station - Commercial	SF		60.00	\$0.00				
Subtotal				\$625,000.00				
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	625,000.00				
ROW Subtotal				1,250,000.00				
SEGMENT TOTAL				\$18,900,304.00				

Tranvía de Carolina Light Rail Project

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
PLATE O					
From: Canal Blasina		To: Sports Park		Stations: Ave. Roberto Clemente	
Length: 2325 Feet		0.45 Miles			
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	600.00	\$2,100.00	\$1,260,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,700	\$1,200.00	\$2,040,000.00	
On-Structure (2 tracks)	LF	75.00	\$1,650.00	\$123,750.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$1,000,000.00	
Subtotal				\$4,423,750.00	
Structure					
Basic	LF	75.00	\$4,800.00	\$360,000.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$360,000.00	
Street Modification					
Minor	LF	1,250.00	\$300.00	\$375,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$375,000.00	
Systems					
Overhead Catenary System	LF	2325.00	\$500.00	\$1,162,500.00	
Signals	MI	0.45	\$200,000.00	\$90,000.00	
Control System	MI	0.45	\$150,000.00	\$67,500.00	
Communications	MI	0.45	\$75,000.00	\$33,750.00	
Traction Power Substations	MI	0.45	\$300,000.00	\$135,000.00	
Subtotal				\$1,488,750.00	
Guideway Subtotal				6,647,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$199,425.00	
Landscaping/Streetscaping	LS		3.0%	\$199,425.00	
Signing and Striping	LS		1.0%	\$66,475.00	
Traffic Control	LS		2.0%	\$132,950.00	
Mitigation	LS		3.0%	\$199,425.00	
Utility Relocation					
None	LF	600	0.00	\$0.00	
Low	LF	200	500.00	\$100,000.00	
Moderate	LF	1525.00	1,000.00	\$1,525,000.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$1,625,000.00	
Traffic Signal with Preemption	EA	3	\$200,000.00	\$600,000.00	
General Cost Subtotal				\$3,022,700.00	
LINE SUBTOTAL				\$9,670,200.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$10,170,200.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$305,106.00	
Design	LS		12.0%	\$1,220,424.00	
Construction Management	LS		12.0%	\$1,220,424.00	
Administration	LS		2.0%	\$203,404.00	
Insurance and Legal	LS		1.0%	\$101,702.00	
Contingency	LS		30.0%	\$3,051,060.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$6,102,120.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF	16000	25.00	\$400,000.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF	66000	60.00	\$3,960,000.00	
Government Unimproved	SF	18000	5.00	\$90,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$4,450,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	4,450,000.00	
ROW Subtotal				8,900,000.00	
SEGMENT TOTAL				\$25,172,320.00	

Tranvía de Carolina Light Rail Project

PLATE P	From: Sports Park To: Intermodal Center Length: 3125 Feet 0.6 Miles			Stations: Sports Park	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	225.00	\$2,100.00	\$472,500.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,900	\$1,200.00	\$3,480,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$12,000.00	
Subtotal				\$3,964,500.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	1,100.00	\$300.00	\$330,000.00	Parking lots at park; arena drive and street to the east
Major	LF		\$650.00	\$0.00	
Subtotal				\$330,000.00	
Systems					
Overhead Catenary System	LF	3125.00	\$500.00	\$1,562,500.00	
Signals	MI	0.60	\$200,000.00	\$120,000.00	
Control System	MI	0.60	\$150,000.00	\$90,000.00	
Communications	MI	0.60	\$75,000.00	\$45,000.00	
Traction Power Substations	MI	0.60	\$300,000.00	\$180,000.00	
Subtotal				\$1,997,500.00	
Guideway Subtotal				6,292,000.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$188,760.00	
Landscaping/Streetscaping	LS		3.0%	\$188,760.00	
Signing and Striping	LS		1.0%	\$62,920.00	
Traffic Control	LS		2.0%	\$125,840.00	
Mitigation	LS		3.0%	\$188,760.00	
Utility Relocation					
None	LF	1800	0.00	\$0.00	
Low	LF	900	500.00	\$450,000.00	
Moderate	LF	425.00	1,000.00	\$425,000.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$875,000.00	
Traffic Signal with Preemption	EA	3	\$200,000.00	\$600,000.00	
General Cost Subtotal				\$2,230,040.00	
LINE SUBTOTAL				\$8,522,040.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$9,022,040.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$270,661.20	
Design	LS		12.0%	\$1,082,644.80	
Construction Management	LS		12.0%	\$1,082,644.80	
Administration	LS		2.0%	\$180,440.80	
Insurance and Legal	LS		1.0%	\$90,220.40	
Contingency	LS		30.0%	\$2,706,612.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$5,413,224.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$0.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	0.00	
ROW Subtotal				0.00	
SEGMENT TOTAL				\$14,435,264.00	

Tranvía de Carolina Light Rail Project

PLATE Q	From:	AMA Intermodal Center	To:	Centro Urbano	Stations:	Intermodal Center Calle 7 Govt. Center
	Length:	4100 Feet 0.78 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF	425.00	\$2,100.00	\$892,500.00		
In-Street Section (1 track)	LF	1,050.00	\$1,550.00	\$1,627,500.00		
Ballast Section (2 tracks)	LF	900	\$1,200.00	\$1,080,000.00		
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00		
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00		
Special Trackwork Items	LS			\$1,730,000.00		
Subtotal				\$5,330,000.00		
Structure						
Basic	LF		\$4,800.00	\$0.00		
Long Span/Level 3	LF		\$8,400.00	\$0.00		
Subtotal				\$0.00		
Street Modification						
Minor	LF	1,500.00	\$300.00	\$450,000.00		Calle 7 and Govt. Center parking lot allowance
Major	LF		\$650.00	\$0.00		
Subtotal				\$450,000.00		
Systems						
Overhead Catenary System	LF	4100.00	\$500.00	\$2,050,000.00		
Signals	MI	0.78	\$200,000.00	\$156,000.00		
Control System	MI	0.78	\$150,000.00	\$117,000.00		
Communications	MI	0.78	\$75,000.00	\$58,500.00		
Traction Power Substations	MI	0.78	\$300,000.00	\$234,000.00		
Subtotal				\$2,615,500.00		
Guideway Subtotal				8,395,500.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$251,865.00		
Landscaping/Streetscaping	LS		3.0%	\$251,865.00		
Signing and Striping	LS		1.0%	\$83,955.00		
Traffic Control	LS		2.0%	\$167,910.00		
Mitigation	LS		3.0%	\$251,865.00		
Utility Relocation						
None	LF		0.00	\$0.00		
Low	LF	3400	500.00	\$1,700,000.00		
Moderate	LF	700.00	1,000.00	\$700,000.00		
High	LF		1,500.00	\$0.00		
Subtotal				\$2,400,000.00		
Traffic Signal with Preemption	EA	3	\$200,000.00	\$600,000.00		
General Cost Subtotal				\$4,007,460.00		
LINE SUBTOTAL				\$12,402,960.00		
STATIONS						
Local Stations	EA	2.00	\$500,000.00	\$1,000,000.00		
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$1,750,000.00		
SUBTOTAL (LINE and STATIONS)				\$14,152,960.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$424,588.80		
Design	LS		12.0%	\$1,698,355.20		
Construction Management	LS		12.0%	\$1,698,355.20		
Administration	LS		2.0%	\$283,059.20		
Insurance and Legal	LS		1.0%	\$141,529.60		
Contingency	LS		30.0%	\$4,245,888.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$8,491,776.00		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF	47000	25.00	\$1,175,000.00		
Commercial Land	SF	6000	25.00	\$150,000.00		
Commercial Improved	SF		60.00	\$0.00		
Government Unimproved	SF	22500	5.00	\$112,500.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$1,437,500.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	1,437,500.00		
ROW Subtotal				2,875,000.00		
SEGMENT TOTAL				\$25,519,736.00		

Tranvía de Carolina Light Rail Project

PLATE R	From:	To:	Length:		Stations:
	Centro Urbano - East	Centro Urbano - East	2750 Feet		City Hall
			0.53 Miles		Villa Caridad
					Tren Urbano
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00	
In-Street Section (1 track)	LF	1,000.00	\$1,550.00	\$1,550,000.00	
Ballast Section (2 tracks)	LF		\$1,200.00	\$0.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$1,600,000.00	
Subtotal				\$3,150,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	550.00	\$300.00	\$165,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$165,000.00	
Systems					
Overhead Catenary System	LF	2750.00	\$500.00	\$1,375,000.00	
Signals	MI	0.53	\$200,000.00	\$106,000.00	
Control System	MI	0.53	\$150,000.00	\$79,500.00	
Communications	MI	0.53	\$75,000.00	\$39,750.00	
Traction Power Substations	MI	0.53	\$300,000.00	\$159,000.00	
Subtotal				\$1,759,250.00	
Guideway Subtotal				5,074,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$152,227.50	
Landscaping/Streetscaping	LS		3.0%	\$152,227.50	
Signing and Striping	LS		1.0%	\$50,742.50	
Traffic Control	LS		2.0%	\$101,485.00	
Mitigation	LS		3.0%	\$152,227.50	
Utility Relocation					
None	LF	950	0.00	\$0.00	
Low	LF	900	500.00	\$450,000.00	
Moderate	LF	125.00	1,000.00	\$125,000.00	
High	LF	775.00	1,500.00	\$1,162,500.00	
Subtotal				\$1,737,500.00	
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00	
General Cost Subtotal				\$2,346,410.00	
LINE SUBTOTAL				\$7,420,660.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA	2.00	\$750,000.00	\$1,500,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$2,000,000.00	
SUBTOTAL (LINE and STATIONS)				\$9,420,660.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$282,619.80	
Design	LS		12.0%	\$1,130,479.20	
Construction Management	LS		12.0%	\$1,130,479.20	
Administration	LS		2.0%	\$188,413.20	
Insurance and Legal	LS		1.0%	\$94,206.60	
Contingency	LS		30.0%	\$2,826,198.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$5,652,396.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF	18400	25.00	\$460,000.00	
Commercial Land	SF	44000	25.00	\$1,100,000.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$1,560,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	1,560,000.00	
ROW Subtotal				3,120,000.00	
SEGMENT TOTAL				\$18,193,056.00	

Tranvía de Carolina Light Rail Project

PLATE S	From: Centro Urbano - West To: Centro Urbano - West Length: 3500 Feet 0.67 Miles			Stations: Calle San Francisco Calle Pedro Arzuaga	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00	
In-Street Section (1 track)	LF	800.00	\$1,550.00	\$1,240,000.00	
Ballast Section (2 tracks)	LF		\$1,200.00	\$0.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$2,160,000.00	
Subtotal				\$3,400,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	750.00	\$300.00	\$225,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$225,000.00	
Systems					
Overhead Catenary System	LF	3500.00	\$500.00	\$1,750,000.00	
Signals	MI	0.67	\$200,000.00	\$134,000.00	
Control System	MI	0.67	\$150,000.00	\$100,500.00	
Communications	MI	0.67	\$75,000.00	\$50,250.00	
Traction Power Substations	MI	0.67	\$300,000.00	\$201,000.00	
Subtotal				\$2,235,750.00	
Guideway Subtotal				5,860,750.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$175,822.50	
Landscaping/Streetscaping	LS		3.0%	\$175,822.50	
Signing and Striping	LS		1.0%	\$58,607.50	
Traffic Control	LS		2.0%	\$117,215.00	
Mitigation	LS		3.0%	\$175,822.50	
Utility Relocation					
None	LF	0	0.00	\$0.00	
Low	LF	1000	500.00	\$500,000.00	
Moderate	LF	1850.00	1,000.00	\$1,850,000.00	
High	LF	650.00	1,500.00	\$975,000.00	
Subtotal				\$3,325,000.00	
Traffic Signal with Preemption	EA	4	\$200,000.00	\$800,000.00	
General Cost Subtotal				\$4,828,290.00	
LINE SUBTOTAL				\$10,689,040.00	
STATIONS					
Local Stations	EA	2.00	\$500,000.00	\$1,000,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$1,000,000.00	
SUBTOTAL (LINE and STATIONS)				\$11,689,040.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$350,671.20	
Design	LS		12.0%	\$1,402,684.80	
Construction Management	LS		12.0%	\$1,402,684.80	
Administration	LS		2.0%	\$233,780.80	
Insurance and Legal	LS		1.0%	\$116,890.40	
Contingency	LS		30.0%	\$3,506,712.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$7,013,424.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF	5000	25.00	\$125,000.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	14700	5.00	\$73,500.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$198,500.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	198,500.00	
ROW Subtotal				397,000.00	
SEGMENT TOTAL				\$19,099,464.00	

Tranvía de Carolina Light Rail Project

PLATE T	From:	Plaza Escorial	To:	Plaza Escorial	Stations:	Plaza Escorial UPR - Carolina & Tren Urbano
	Length:	1300 Feet 0.25 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF	600.00	\$2,100.00	\$1,260,000.00		
In-Street Section (1 track)	LF		\$1,550.00	\$0.00		
Ballast Section (2 tracks)	LF	700	\$1,200.00	\$840,000.00		
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00		
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00		
Special Trackwork Items	LS		\$0.00	\$350,000.00		
Subtotal				\$2,450,000.00		
Structure						
Basic	LF	0.00	\$4,800.00	\$0.00		
Long Span/Level 3	LF	0.00	\$8,400.00	\$0.00		
Subtotal				\$0.00		
Street Modification						
Minor	LF	1,300.00	\$300.00	\$390,000.00		
Major	LF		\$650.00	\$0.00		
Subtotal				\$390,000.00		
Systems						
Overhead Catenary System	LF	1300.00	\$500.00	\$650,000.00		
Signals	MI	0.25	\$200,000.00	\$50,000.00		
Control System	MI	0.25	\$150,000.00	\$37,500.00		
Communications	MI	0.25	\$75,000.00	\$18,750.00		
Traction Power Substations	MI	0.25	\$300,000.00	\$75,000.00		
Subtotal				\$831,250.00		
Guideway Subtotal				3,671,250.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$110,137.50		
Landscaping/Streetscaping	LS		3.0%	\$110,137.50		
Signing and Striping	LS		1.0%	\$36,712.50		
Traffic Control	LS		2.0%	\$73,425.00		
Mitigation	LS		3.0%	\$110,137.50		
Utility Relocation						
None	LF		0.00	\$0.00		
Low	LF	650	500.00	\$325,000.00		
Moderate	LF	650.00	1,000.00	\$650,000.00		
High	LF		1,500.00	\$0.00		
Subtotal				\$975,000.00		
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00		
General Cost Subtotal				\$1,615,550.00		
LINE SUBTOTAL				\$5,286,800.00		
STATIONS						
Local Stations	EA	1.00	\$500,000.00	\$500,000.00		
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$1,250,000.00		
SUBTOTAL (LINE and STATIONS)				\$6,536,800.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$196,104.00		
Design	LS		12.0%	\$784,416.00		
Construction Management	LS		12.0%	\$784,416.00		
Administration	LS		2.0%	\$130,736.00		
Insurance and Legal	LS		1.0%	\$65,368.00		
Contingency	LS		30.0%	\$1,961,040.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$3,922,080.00		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF		25.00	\$0.00		
Commercial Improved	SF		60.00	\$0.00		
Government Unimproved	SF		5.00	\$0.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$0.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	0.00		
ROW Subtotal				0.00		
SEGMENT TOTAL				\$10,458,880.00		

Tranvía de Carolina Light Rail Project

PLATE U	From:	Plaza Escorial UPR-Carolina & Tren Urbano 2425 Feet 0.46 Miles			Stations:	Clearwater Beach - Community
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF	500.00	\$2,100.00	\$1,050,000.00		
In-Street Section (1 track)	LF		\$1,550.00	\$0.00		
Ballast Section (2 tracks)	LF	1,925	\$1,200.00	\$2,310,000.00		
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00		
Embankment Section with Walls - Additiv	EA		\$500,000.00	\$0.00		
Special Trackwork Items	LS		\$0.00	\$0.00		
Subtotal				\$3,360,000.00		
Structure						
Basic	LF		\$4,800.00	\$0.00		
Long Span/Level 3	LF		\$8,400.00	\$0.00		
Subtotal				\$0.00		
Street Modification						
Minor	LF	1,800.00	\$300.00	\$540,000.00		
Major	LF		\$650.00	\$0.00		
Subtotal				\$540,000.00		
Systems						
Overhead Catenary System	LF	2425.00	\$500.00	\$1,212,500.00		
Signals	MI	0.46	\$200,000.00	\$92,000.00		
Control System	MI	0.46	\$150,000.00	\$69,000.00		
Communications	MI	0.46	\$75,000.00	\$34,500.00		
Traction Power Substations	MI	0.46	\$300,000.00	\$138,000.00		
Subtotal				\$1,546,000.00		
Guideway Subtotal				5,446,000.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$163,380.00		
Landscaping/Streetscaping	LS		3.0%	\$163,380.00		
Signing and Striping	LS		1.0%	\$54,460.00		
Traffic Control	LS		2.0%	\$108,920.00		
Mitigation	LS		3.0%	\$163,380.00		
Utility Relocation						
None	LF	725	0.00	\$0.00		
Low	LF	850	500.00	\$425,000.00		
Moderate	LF	850.00	1,000.00	\$850,000.00		
High	LF		1,500.00	\$0.00		
Subtotal				\$1,275,000.00		
Traffic Signal with Preemption	EA	3	\$200,000.00	\$600,000.00		
General Cost Subtotal				\$2,528,520.00		
LINE SUBTOTAL				\$7,974,520.00		
STATIONS						
Local Stations	EA		\$500,000.00	\$0.00		
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$750,000.00		
SUBTOTAL (LINE and STATIONS)				\$8,724,520.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$261,735.60		
Design	LS		12.0%	\$1,046,942.40		
Construction Management	LS		12.0%	\$1,046,942.40		
Administration	LS		2.0%	\$174,490.40		
Insurance and Legal	LS		1.0%	\$87,245.20		
Contingency	LS		30.0%	\$2,617,356.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$5,234,712.00		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF	29000	25.00	\$725,000.00		
Commercial Improved	SF		60.00	\$0.00		
Government Unimproved	SF		5.00	\$0.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$725,000.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	725,000.00		
ROW Subtotal				1,450,000.00		
SEGMENT TOTAL				\$15,409,232.00		

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE V	From: UPR - Carolina & Tren Urbano To: Calle G. de la Vega Length: 3000 Feet 0.57 Miles				Stations: PR-3
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	0.00	\$2,100.00	\$0.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,425	\$1,200.00	\$1,710,000.00	
On-Structure (2 tracks)	LF	1,575.00	\$1,650.00	\$2,598,750.00	
Embankment Section with Walls - Additive	EA	1.00	\$500,000.00	\$500,000.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$4,808,750.00	
Structure					
Basic	LF	475.00	\$4,800.00	\$2,280,000.00	C. Lorena northward slope to grade
Long Span/Level 3	LF	1,100.00	\$8,400.00	\$9,240,000.00	Balance
Subtotal				\$11,520,000.00	
Street Modification					
Minor	LF	500.00	\$300.00	\$150,000.00	Parking lot adjustments
Major	LF		\$650.00	\$0.00	
Subtotal				\$150,000.00	
Systems					
Overhead Catenary System	LF	3000.00	\$500.00	\$1,500,000.00	
Signals	MI	0.57	\$200,000.00	\$114,000.00	
Control System	MI	0.57	\$150,000.00	\$85,500.00	
Communications	MI	0.57	\$75,000.00	\$42,750.00	
Traction Power Substations	MI	0.57	\$300,000.00	\$171,000.00	
Subtotal				\$1,913,250.00	
Guideway Subtotal				18,392,000.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$551,760.00	
Landscaping/Streetscaping	LS		3.0%	\$551,760.00	
Signing and Striping	LS		1.0%	\$183,920.00	
Traffic Control	LS		2.0%	\$367,840.00	
Mitigation	LS		3.0%	\$551,760.00	
Utility Relocation					
None	LF	1900	0.00	\$0.00	
Low	LF	500	500.00	\$250,000.00	
Moderate	LF	500.00	1,000.00	\$500,000.00	
High	LF	100.00	1,500.00	\$150,000.00	
Subtotal				\$900,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$3,307,040.00	
LINE SUBTOTAL				\$21,699,040.00	
STATIONS					
Local Stations	EA		\$500,000.00	\$0.00	
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA	1	\$1,500,000.00	\$1,500,000.00	
STATION SUBTOTAL				\$2,250,000.00	
SUBTOTAL (LINE and STATIONS)				\$23,949,040.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$718,471.20	
Design	LS		12.0%	\$2,873,884.80	
Construction Management	LS		12.0%	\$2,873,884.80	
Administration	LS		2.0%	\$478,980.80	
Insurance and Legal	LS		1.0%	\$239,490.40	
Contingency	LS		30.0%	\$7,184,712.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$14,369,424.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF	60000	25.00	\$1,500,000.00	
Commercial Improved	SF	30000	60.00	\$1,800,000.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$3,300,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	3,300,000.00	
ROW Subtotal				6,600,000.00	
SEGMENT TOTAL				\$44,918,464.00	

Tranvía de Carolina Light Rail Project

PLATE W	From:	Calle G. de la Vega			Stations:
	To:	Ave. San Marcos			Ave. Monserrate - West
	Length:	3175 Feet			Ave. Monserrate - Central
		0.61 Miles			
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	650.00	\$2,100.00	\$1,365,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,425	\$1,200.00	\$1,710,000.00	
On-Structure (2 tracks)	LF	1,100.00	\$1,650.00	\$1,815,000.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$350,000.00	
Subtotal				\$5,240,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF	1,100.00	\$8,400.00	\$9,240,000.00	
Subtotal				\$9,240,000.00	
Street Modification					
Minor	LF	0.00	\$300.00	\$0.00	
Major	LF	0	\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	3175.00	\$500.00	\$1,587,500.00	
Signals	MI	0.61	\$200,000.00	\$122,000.00	
Control System	MI	0.61	\$150,000.00	\$91,500.00	
Communications	MI	0.61	\$75,000.00	\$45,750.00	
Traction Power Substations	MI	0.61	\$300,000.00	\$183,000.00	
Subtotal				\$2,029,750.00	
Guideway Subtotal				16,509,750.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$495,292.50	
Landscaping/Streetscaping	LS		3.0%	\$495,292.50	
Signing and Striping	LS		1.0%	\$165,097.50	
Traffic Control	LS		2.0%	\$330,195.00	
Mitigation	LS		3.0%	\$495,292.50	
Utility Relocation					
None	LF	1800	0.00	\$0.00	
Low	LF	875	500.00	\$437,500.00	
Moderate	LF	500.00	1,000.00	\$500,000.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$937,500.00	
Traffic Signal with Preemption	EA	2	\$200,000.00	\$400,000.00	
General Cost Subtotal				\$3,318,670.00	
LINE SUBTOTAL				\$19,828,420.00	
STATIONS					
Local Stations	EA	2.00	\$500,000.00	\$1,000,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$1,000,000.00	
SUBTOTAL (LINE and STATIONS)				\$20,828,420.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$624,852.60	
Design	LS		12.0%	\$2,499,410.40	
Construction Management	LS		12.0%	\$2,499,410.40	
Administration	LS		2.0%	\$416,568.40	
Insurance and Legal	LS		1.0%	\$208,284.20	
Contingency	LS		30.0%	\$6,248,526.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$12,497,052.00	
RIGHT-OF-WAY					
Residential Land	SF	25000	10.00	\$250,000.00	
Residential Improved	SF	25000	25.00	\$625,000.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$875,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	875,000.00	
ROW Subtotal				1,750,000.00	
SEGMENT TOTAL				\$35,075,472.00	

Tranvía de Carolina Light Rail Project

PLATE X	From:	Ave. Monserrate - Central	To:	Ave. Monserrate - East	Stations:	Ave. Monserrate - East
	Length:	2400 Feet 0.46 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF	450.00	\$2,100.00	\$945,000.00		
In-Street Section (1 track)	LF		\$1,550.00	\$0.00		
Ballast Section (2 tracks)	LF	1.650	\$1,200.00	\$1,980,000.00		
On-Structure (2 tracks)	LF	300.00	\$1,650.00	\$495,000.00		
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00		
Special Trackwork Items	LS		\$0.00	\$0.00		Interline connection included in Rt. 1 costs
Subtotal				\$3,420,000.00		
Structure						
Basic	LF	300.00	\$4,800.00	\$1,440,000.00		
Long Span/Level 3	LF		\$8,400.00	\$0.00		
Subtotal				\$1,440,000.00		
Street Modification						
Minor	LF	400.00	\$300.00	\$120,000.00		
Major	LF	700	\$650.00	\$455,000.00		
Subtotal				\$575,000.00		
Systems						
Overhead Catenary System	LF	2400.00	\$500.00	\$1,200,000.00		
Signals	MI	0.46	\$200,000.00	\$92,000.00		
Control System	MI	0.46	\$150,000.00	\$69,000.00		
Communications	MI	0.46	\$75,000.00	\$34,500.00		
Traction Power Substations	MI	0.46	\$300,000.00	\$138,000.00		
Subtotal				\$1,533,500.00		
Guideway Subtotal				6,968,500.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$209,055.00		
Landscaping/Streetscaping	LS		3.0%	\$209,055.00		
Signing and Striping	LS		1.0%	\$69,685.00		
Traffic Control	LS		2.0%	\$139,370.00		
Mitigation	LS		3.0%	\$209,055.00		
Utility Relocation						
None	LF	850	0.00	\$0.00		
Low	LF	700	500.00	\$350,000.00		
Moderate	LF	850.00	1,000.00	\$850,000.00		
High	LF		1,500.00	\$0.00		
Subtotal				\$1,200,000.00		
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00		
General Cost Subtotal				\$2,036,220.00		
LINE SUBTOTAL				\$9,004,720.00		
STATIONS						
Local Stations	EA		\$500,000.00	\$0.00		
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA	1	\$1,500,000.00	\$1,500,000.00		
STATION SUBTOTAL				\$2,250,000.00		
SUBTOTAL (LINE and STATIONS)				\$11,254,720.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$337,641.60		
Design	LS		12.0%	\$1,350,566.40		
Construction Management	LS		12.0%	\$1,350,566.40		
Administration	LS		2.0%	\$225,094.40		
Insurance and Legal	LS		1.0%	\$112,547.20		
Contingency	LS		30.0%	\$3,376,416.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$6,752,832.00		
RIGHT-OF-WAY						
Residential Land	SF	2500	10.00	\$25,000.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF		25.00	\$0.00		
Commercial Improved	SF		60.00	\$0.00		
Government Unimproved	SF	28000	5.00	\$140,000.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$165,000.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	165,000.00		
ROW Subtotal				330,000.00		
SEGMENT TOTAL				\$18,337,552.00		

Tranvía de Carolina Light Rail Project

PLATE Y	From:	Ave. Monserrate - East	Stations:	Ave. Monserrate - East	
	To:	Calle 128			
	Length:	2650 Feet 0.51 Miles			
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	300.00	\$2,100.00	\$630,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,350	\$1,200.00	\$2,820,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$1,625,000.00	
Subtotal				\$5,075,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	1,750.00	\$300.00	\$525,000.00	C. S. Osorio and new residential drive (250 LF)
Major	LF		\$650.00	\$0.00	
Subtotal				\$525,000.00	
Systems					
Overhead Catenary System	LF	2650.00	\$500.00	\$1,325,000.00	
Signals	MI	0.51	\$200,000.00	\$102,000.00	
Control System	MI	0.51	\$150,000.00	\$76,500.00	
Communications	MI	0.51	\$75,000.00	\$38,250.00	
Traction Power Substations	MI	0.51	\$300,000.00	\$153,000.00	
Subtotal				\$1,694,750.00	
Guideway Subtotal				7,294,750.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$218,842.50	
Landscaping/Streetscaping	LS		3.0%	\$218,842.50	
Signing and Striping	LS		1.0%	\$72,947.50	
Traffic Control	LS		2.0%	\$145,895.00	
Mitigation	LS		3.0%	\$218,842.50	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF	1250	500.00	\$625,000.00	
Moderate	LF	1400.00	1,000.00	\$1,400,000.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$2,025,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$3,100,370.00	
LINE SUBTOTAL				\$10,395,120.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$10,895,120.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$326,853.60	
Design	LS		12.0%	\$1,307,414.40	
Construction Management	LS		12.0%	\$1,307,414.40	
Administration	LS		2.0%	\$217,902.40	
Insurance and Legal	LS		1.0%	\$108,951.20	
Contingency	LS		30.0%	\$3,268,536.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$6,537,072.00	
RIGHT-OF-WAY					
Residential Land	SF	19500	10.00	\$195,000.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	40000	5.00	\$200,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$395,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	395,000.00	
ROW Subtotal				790,000.00	
SEGMENT TOTAL				\$18,222,192.00	

Tranvía de Carolina Light Rail Project

PLATE Z	From:	Calle 128	To:	Ave. Campo Rico	Stations:	Ave. Sur Principal Ave. Campo Rico - West
	Length:	3225 Feet 0.62 Miles				
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF	825.00	\$2,100.00	\$1,732,500.00		
In-Street Section (1 track)	LF		\$1,550.00	\$0.00		
Ballast Section (2 tracks)	LF	2,400	\$1,200.00	\$2,880,000.00		
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00		
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00		
Special Trackwork Items	LS		\$0.00	\$125,000.00		
Subtotal				\$4,737,500.00		
Structure						
Basic	LF		\$4,800.00	\$0.00		
Long Span/Level 3	LF		\$8,400.00	\$0.00		
Subtotal				\$0.00		
Street Modification						
Minor	LF	2,450.00	\$300.00	\$735,000.00		
Major	LF		\$650.00	\$0.00		
Subtotal				\$735,000.00		
Systems						
Overhead Catenary System	LF	3225.00	\$500.00	\$1,612,500.00		
Signals	MI	0.62	\$200,000.00	\$124,000.00		
Control System	MI	0.62	\$150,000.00	\$93,000.00		
Communications	MI	0.62	\$75,000.00	\$46,500.00		
Traction Power Substations	MI	0.62	\$300,000.00	\$186,000.00		
Subtotal				\$2,062,000.00		
Guideway Subtotal				7,534,500.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$226,035.00		
Landscaping/Streetscaping	LS		3.0%	\$226,035.00		
Signing and Striping	LS		1.0%	\$75,345.00		
Traffic Control	LS		2.0%	\$150,690.00		
Mitigation	LS		3.0%	\$226,035.00		
Utility Relocation						
None	LF		0.00	\$0.00		
Low	LF		500.00	\$0.00		
Moderate	LF	3000.00	1,000.00	\$3,000,000.00		
High	LF	225.00	1,500.00	\$337,500.00		
Subtotal				\$3,337,500.00		
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00		
General Cost Subtotal				\$4,441,640.00		
LINE SUBTOTAL				\$11,976,140.00		
STATIONS						
Local Stations	EA	1.00	\$500,000.00	\$500,000.00		
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$1,250,000.00		
SUBTOTAL (LINE and STATIONS)				\$13,226,140.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$396,784.20		
Design	LS		12.0%	\$1,587,136.80		
Construction Management	LS		12.0%	\$1,587,136.80		
Administration	LS		2.0%	\$264,522.80		
Insurance and Legal	LS		1.0%	\$132,261.40		
Contingency	LS		30.0%	\$3,967,842.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$7,935,684.00		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF		25.00	\$0.00		
Commercial Improved	SF	100000	60.00	\$6,000,000.00		
Government Unimproved	SF		5.00	\$0.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$6,000,000.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	6,000,000.00		
ROW Subtotal				12,000,000.00		
SEGMENT TOTAL				\$33,161,824.00		

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE AA	From: Ave. Campo Rico To: Ave. Campo Rico Length: 1375 Feet 0.27 Miles				Stations: None
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF		\$2,100.00	\$0.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,375	\$1,200.00	\$1,650,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$1,650,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	0.00	\$300.00	\$0.00	
Major	LF	0	\$650.00	\$0.00	
Subtotal				\$0.00	
Systems					
Overhead Catenary System	LF	1375.00	\$500.00	\$687,500.00	
Signals	MI	0.27	\$200,000.00	\$54,000.00	
Control System	MI	0.27	\$150,000.00	\$40,500.00	
Communications	MI	0.27	\$75,000.00	\$20,250.00	
Traction Power Substations	MI	0.27	\$300,000.00	\$81,000.00	
Subtotal				\$883,250.00	
Guideway Subtotal				2,533,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$75,997.50	
Landscaping/Streetscaping	LS		3.0%	\$75,997.50	
Signing and Striping	LS		1.0%	\$25,332.50	
Traffic Control	LS		2.0%	\$50,665.00	
Mitigation	LS		3.0%	\$75,997.50	
Utility Relocation					
None	LF	1375	0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF		1,000.00	\$0.00	
High	LF		1,500.00	\$0.00	
Subtotal				\$0.00	
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00	
General Cost Subtotal				\$303,990.00	
LINE SUBTOTAL				\$2,837,240.00	
STATIONS					
Local Stations	EA	0.00	\$500,000.00	\$0.00	
Hub Stations	EA	0.00	\$750,000.00	\$0.00	
Intermodal Stations	EA	0.00	\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$0.00	
SUBTOTAL (LINE and STATIONS)				\$2,837,240.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$85,117.20	
Design	LS		12.0%	\$340,468.80	
Construction Management	LS		12.0%	\$340,468.80	
Administration	LS		2.0%	\$56,744.80	
Insurance and Legal	LS		1.0%	\$28,372.40	
Contingency	LS		30.0%	\$851,172.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$1,702,344.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF		5.00	\$0.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$0.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	0.00	
ROW Subtotal				0.00	
SEGMENT TOTAL				\$4,539,584.00	

Tranvía de Carolina Light Rail Project

Tranvía de Carolina Light Rail Project					
PLATE BB	From: Ave. Campo Rico To: Ave. Fidalgo Diaz Length: 2750 Feet 0.53 Miles				Stations: Ave. Campo Rico - East
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	900.00	\$2,100.00	\$1,890,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	1,850	\$1,200.00	\$2,220,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$0.00	
Subtotal				\$4,110,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	1,000.00	\$300.00	\$300,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$300,000.00	
Systems					
Overhead Catenary System	LF	2750.00	\$500.00	\$1,375,000.00	
Signals	MI	0.53	\$200,000.00	\$106,000.00	
Control System	MI	0.53	\$150,000.00	\$79,500.00	
Communications	MI	0.53	\$75,000.00	\$39,750.00	
Traction Power Substations	MI	0.53	\$300,000.00	\$159,000.00	
Subtotal				\$1,759,250.00	
Guideway Subtotal				6,169,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$185,077.50	
Landscaping/Streetscaping	LS		3.0%	\$185,077.50	
Signing and Striping	LS		1.0%	\$61,692.50	
Traffic Control	LS		2.0%	\$123,385.00	
Mitigation	LS		3.0%	\$185,077.50	
Utility Relocation					
None	LF	1650	0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	500.00	1,000.00	\$500,000.00	
High	LF	600.00	1,500.00	\$900,000.00	
Subtotal				\$1,400,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$2,340,310.00	
LINE SUBTOTAL				\$8,509,560.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$9,009,560.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$270,286.80	
Design	LS		12.0%	\$1,081,147.20	
Construction Management	LS		12.0%	\$1,081,147.20	
Administration	LS		2.0%	\$180,191.20	
Insurance and Legal	LS		1.0%	\$90,095.60	
Contingency	LS		30.0%	\$2,702,868.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$5,405,736.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	38750	5.00	\$193,750.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$193,750.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	193,750.00	
ROW Subtotal				387,500.00	
SEGMENT TOTAL				\$14,802,796.00	

Tranvía de Carolina Light Rail Project

PLATE CC	From: Calle Principal Sur To: Calle Laurel Length: 2425 Feet 0.46 Miles	Stations: Ave. Fidalgo Diaz - North			
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	300.00	\$2,100.00	\$630,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,125	\$1,200.00	\$2,550,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$300,000.00	
Subtotal				\$3,480,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	2,425.00	\$300.00	\$727,500.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$727,500.00	
Systems					
Overhead Catenary System	LF	2425.00	\$500.00	\$1,212,500.00	
Signals	MI	0.46	\$200,000.00	\$92,000.00	
Control System	MI	0.46	\$150,000.00	\$69,000.00	
Communications	MI	0.46	\$75,000.00	\$34,500.00	
Traction Power Substations	MI	0.46	\$300,000.00	\$138,000.00	
Subtotal				\$1,546,000.00	
Guideway Subtotal				5,753,500.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$172,605.00	
Landscaping/Streetscaping	LS		3.0%	\$172,605.00	
Signing and Striping	LS		1.0%	\$57,535.00	
Traffic Control	LS		2.0%	\$115,070.00	
Mitigation	LS		3.0%	\$172,605.00	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	1825.00	1,000.00	\$1,825,000.00	
High	LF	600.00	1,500.00	\$900,000.00	
Subtotal				\$2,725,000.00	
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00	
General Cost Subtotal				\$3,615,420.00	
LINE SUBTOTAL				\$9,368,920.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$9,868,920.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$296,067.60	
Design	LS		12.0%	\$1,184,270.40	
Construction Management	LS		12.0%	\$1,184,270.40	
Administration	LS		2.0%	\$197,378.40	
Insurance and Legal	LS		1.0%	\$98,689.20	
Contingency	LS		30.0%	\$2,960,676.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$5,921,352.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	15000	5.00	\$75,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$75,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	75,000.00	
ROW Subtotal				150,000.00	
SEGMENT TOTAL				\$15,940,272.00	

Tranvía de Carolina Light Rail Project

PLATE DD	From:	Ave. Fidalgo Diaz	To:	Ave. Fidalgo Diaz	Length:	2650 Feet	0.51 Miles	Stations:	Los Gigantes
ITEM	UNIT	QUANTITY	UNIT COST		COST			REMARKS	
LINE SECTION									
Guideway									
In-Street Section (2 tracks)	LF	550.00	\$2,100.00		\$1,155,000.00				
In-Street Section (1 track)	LF		\$1,550.00		\$0.00				
Ballast Section (2 tracks)	LF	2,100	\$1,200.00		\$2,520,000.00				
On-Structure (2 tracks)	LF		\$1,650.00		\$0.00				
Embankment Section with Walls - Additive	EA		\$500,000.00		\$0.00				
Special Trackwork Items	LS		\$0.00		\$350,000.00				
Subtotal					\$4,025,000.00				
Structure									
Basic	LF		\$4,800.00		\$0.00				
Long Span/Level 3	LF		\$8,400.00		\$0.00				
Subtotal					\$0.00				
Street Modification									
Minor	LF	2,000.00	\$300.00		\$600,000.00				
Major	LF	650	\$650.00		\$422,500.00				
Subtotal					\$1,022,500.00				
Systems									
Overhead Catenary System	LF	2650.00	\$500.00		\$1,325,000.00				
Signals	MI	0.51	\$200,000.00		\$102,000.00				
Control System	MI	0.51	\$150,000.00		\$76,500.00				
Communications	MI	0.51	\$75,000.00		\$38,250.00				
Traction Power Substations	MI	0.51	\$300,000.00		\$153,000.00				
Subtotal					\$1,694,750.00				
Guideway Subtotal					6,742,250.00				
GENERAL COSTS									
Drainage	LS		3.0%		\$202,267.50				
Landscaping/Streetscaping	LS		3.0%		\$202,267.50				
Signing and Striping	LS		1.0%		\$67,422.50				
Traffic Control	LS		2.0%		\$134,845.00				
Mitigation	LS		3.0%		\$202,267.50				
Utility Relocation									
None	LF		0.00		\$0.00				
Low	LF		500.00		\$0.00				
Moderate	LF	2150.00	1,000.00		\$2,150,000.00				
High	LF	500.00	1,500.00		\$750,000.00				
Subtotal					\$2,900,000.00				
Traffic Signal with Preemption	EA	1	\$200,000.00		\$200,000.00				
General Cost Subtotal					\$3,909,070.00				
LINE SUBTOTAL					\$10,651,320.00				
STATIONS									
Local Stations	EA		\$500,000.00		\$0.00				
Hub Stations	EA	1.00	\$750,000.00		\$750,000.00				
Intermodal Stations	EA		\$1,000,000.00		\$0.00				
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00		\$0.00				
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00		\$0.00				
STATION SUBTOTAL					\$750,000.00				
SUBTOTAL (LINE and STATIONS)					\$11,401,320.00				
INDIRECT COSTS									
Mobilization	LS		3.0%		\$342,039.60				
Design	LS		12.0%		\$1,368,158.40				
Construction Management	LS		12.0%		\$1,368,158.40				
Administration	LS		2.0%		\$228,026.40				
Insurance and Legal	LS		1.0%		\$114,013.20				
Contingency	LS		30.0%		\$3,420,396.00				
Municipality Tax (not included)	LS		0.0%		\$0.00				
Subtotal					\$6,840,792.00				
RIGHT-OF-WAY									
Residential Land	SF		10.00		\$0.00				
Residential Improved	SF		25.00		\$0.00				
Commercial Land	SF		25.00		\$0.00				
Commercial Improved	SF		60.00		\$0.00				
Government Unimproved	SF	36000	5.00		\$180,000.00				
Other / Special	SF		75.00		\$0.00				
Station - Residential	SF		25.00		\$0.00				
Station - Commercial	SF		60.00		\$0.00				
Subtotal					\$180,000.00				
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%		180,000.00				
ROW Subtotal					360,000.00				
SEGMENT TOTAL					\$18,602,112.00				

Tranvía de Carolina Light Rail Project

PLATE EE	From: Ave. Fidalgo Diaz To: Ave. Fidalgo Diaz Length: 2550 Feet 0.49 Miles			Stations: Ave. Fidalgo Diaz - South	
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE SECTION					
Guideway					
In-Street Section (2 tracks)	LF	350.00	\$2,100.00	\$735,000.00	
In-Street Section (1 track)	LF		\$1,550.00	\$0.00	
Ballast Section (2 tracks)	LF	2,200	\$1,200.00	\$2,640,000.00	
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00	
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00	
Special Trackwork Items	LS		\$0.00	\$300,000.00	
Subtotal				\$3,675,000.00	
Structure					
Basic	LF		\$4,800.00	\$0.00	
Long Span/Level 3	LF		\$8,400.00	\$0.00	
Subtotal				\$0.00	
Street Modification					
Minor	LF	2,550.00	\$300.00	\$765,000.00	
Major	LF		\$650.00	\$0.00	
Subtotal				\$765,000.00	
Systems					
Overhead Catenary System	LF	2550.00	\$500.00	\$1,275,000.00	
Signals	MI	0.49	\$200,000.00	\$98,000.00	
Control System	MI	0.49	\$150,000.00	\$73,500.00	
Communications	MI	0.49	\$75,000.00	\$36,750.00	
Traction Power Substations	MI	0.49	\$300,000.00	\$147,000.00	
Subtotal				\$1,630,250.00	
Guideway Subtotal				6,070,250.00	
GENERAL COSTS					
Drainage	LS		3.0%	\$182,107.50	
Landscaping/Streetscaping	LS		3.0%	\$182,107.50	
Signing and Striping	LS		1.0%	\$60,702.50	
Traffic Control	LS		2.0%	\$121,405.00	
Mitigation	LS		3.0%	\$182,107.50	
Utility Relocation					
None	LF		0.00	\$0.00	
Low	LF		500.00	\$0.00	
Moderate	LF	1950.00	1,000.00	\$1,950,000.00	
High	LF	600.00	1,500.00	\$900,000.00	
Subtotal				\$2,850,000.00	
Traffic Signal with Preemption	EA		\$200,000.00	\$0.00	
General Cost Subtotal				\$3,578,430.00	
LINE SUBTOTAL				\$9,648,680.00	
STATIONS					
Local Stations	EA	1.00	\$500,000.00	\$500,000.00	
Hub Stations	EA		\$750,000.00	\$0.00	
Intermodal Stations	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00	
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00	
STATION SUBTOTAL				\$500,000.00	
SUBTOTAL (LINE and STATIONS)				\$10,148,680.00	
INDIRECT COSTS					
Mobilization	LS		3.0%	\$304,460.40	
Design	LS		12.0%	\$1,217,841.60	
Construction Management	LS		12.0%	\$1,217,841.60	
Administration	LS		2.0%	\$202,973.60	
Insurance and Legal	LS		1.0%	\$101,486.80	
Contingency	LS		30.0%	\$3,044,604.00	
Municipality Tax (not included)	LS		0.0%	\$0.00	
Subtotal				\$6,089,208.00	
RIGHT-OF-WAY					
Residential Land	SF		10.00	\$0.00	
Residential Improved	SF		25.00	\$0.00	
Commercial Land	SF		25.00	\$0.00	
Commercial Improved	SF		60.00	\$0.00	
Government Unimproved	SF	15000	5.00	\$75,000.00	
Other / Special	SF		75.00	\$0.00	
Station - Residential	SF		25.00	\$0.00	
Station - Commercial	SF		60.00	\$0.00	
Subtotal				\$75,000.00	
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	75,000.00	
ROW Subtotal				150,000.00	
SEGMENT TOTAL				\$16,387,888.00	

Tranvía de Carolina Light Rail Project

PLATE FF	From:	Ave. Fidalgo Diaz	To:	Plaza Carolina	Stations:	Plaza Carolina - West
	Length:	2000 Feet		0.38 Miles		
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS	
LINE SECTION						
Guideway						
In-Street Section (2 tracks)	LF	750.00	\$2,100.00	\$1,575,000.00		
In-Street Section (1 track)	LF	450.00	\$1,550.00	\$697,500.00		
Ballast Section (2 tracks)	LF	1,975	\$1,200.00	\$2,370,000.00		
On-Structure (2 tracks)	LF		\$1,650.00	\$0.00		
Embankment Section with Walls - Additive	EA		\$500,000.00	\$0.00		
Special Trackwork Items	LS		\$0.00	\$450,000.00		
Subtotal				\$5,092,500.00		
Structure						
Basic	LF		\$4,800.00	\$0.00		
Long Span/Level 3	LF		\$8,400.00	\$0.00		
Subtotal				\$0.00		
Street Modification						
Minor	LF	1,200.00	\$300.00	\$360,000.00		
Major	LF		\$650.00	\$0.00		
Subtotal				\$360,000.00		
Systems						
Overhead Catenary System	LF	2000.00	\$500.00	\$1,000,000.00		
Signals	MI	0.38	\$200,000.00	\$76,000.00		
Control System	MI	0.38	\$150,000.00	\$57,000.00		
Communications	MI	0.38	\$75,000.00	\$28,500.00		
Traction Power Substations	MI	0.38	\$300,000.00	\$114,000.00		
Subtotal				\$1,275,500.00		
Guideway Subtotal				6,728,000.00		
GENERAL COSTS						
Drainage	LS		3.0%	\$201,840.00		
Landscaping/Streetscaping	LS		3.0%	\$201,840.00		
Signaling and Striping	LS		1.0%	\$67,280.00		
Traffic Control	LS		2.0%	\$134,560.00		
Mitigation	LS		3.0%	\$201,840.00		
Utility Relocation						
None	LF		0.00	\$0.00		
Low	LF		500.00	\$0.00		
Moderate	LF	1400.00	1,000.00	\$1,400,000.00		
High	LF	600.00	1,500.00	\$900,000.00		
Subtotal				\$2,300,000.00		
Traffic Signal with Preemption	EA	1	\$200,000.00	\$200,000.00		
General Cost Subtotal				\$3,307,360.00		
LINE SUBTOTAL				\$10,035,360.00		
STATIONS						
Local Stations	EA		\$500,000.00	\$0.00		
Hub Stations	EA	1.00	\$750,000.00	\$750,000.00		
Intermodal Stations	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 1 elevator)	EA		\$1,000,000.00	\$0.00		
Station on Elevated Platform - Additive Cost (2 stairwells and 2 elevators)	EA		\$1,500,000.00	\$0.00		
STATION SUBTOTAL				\$750,000.00		
SUBTOTAL (LINE and STATIONS)				\$10,785,360.00		
INDIRECT COSTS						
Mobilization	LS		3.0%	\$323,560.80		
Design	LS		12.0%	\$1,294,243.20		
Construction Management	LS		12.0%	\$1,294,243.20		
Administration	LS		2.0%	\$215,707.20		
Insurance and Legal	LS		1.0%	\$107,853.60		
Contingency	LS		30.0%	\$3,235,608.00		
Municipality Tax (not included)	LS		0.0%	\$0.00		
Subtotal				\$6,471,216.00		
RIGHT-OF-WAY						
Residential Land	SF		10.00	\$0.00		
Residential Improved	SF		25.00	\$0.00		
Commercial Land	SF		25.00	\$0.00		
Commercial Improved	SF		60.00	\$0.00		
Government Unimproved	SF	30000	5.00	\$150,000.00		
Other / Special	SF		75.00	\$0.00		
Station - Residential	SF		25.00	\$0.00		
Station - Commercial	SF		60.00	\$0.00		
Subtotal				\$150,000.00		
ROW Acquisition Process Additive @ 100% (applied to ROW Subtotal)	LS		100.0%	150,000.00		
ROW Subtotal				300,000.00		
SEGMENT TOTAL				\$17,556,576.00		

Tranvía de Carolina Light Rail Project - FACILITIES

ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
MAINT. FACILITY					
Structure	LS	1	4,000,000.00	4,000,000.00	
Site Work	LS	1	750,000.00	750,000.00	
Elec/Mech/Plumbing	LS	1	1,000,000.00	1,000,000.00	
Track	LF	15000	500.00	7,500,000.00	
				0.00	
Switches	EA	20	50,000.00	1,000,000.00	
Tools/Machinery	LS	1	500,000.00	500,000.00	
Overhead Crane	LS	2	150,000.00	300,000.00	
Tow Vehicles	EA	2	100,000.00	200,000.00	
Recovery Vehicles	EA	4	250,000.00	1,000,000.00	
Wash Facility	LS	2	200,000.00	400,000.00	
SUBTOTAL				16,650,000.00	
Mobilization	LS	1.00	3.00%	499,500.00	
Design	LS	1.00	12.00%	1,998,000.00	
Construction Management	LS	1.00	12.00%	1,998,000.00	
Administration	LS	1.00	2.00%	333,000.00	
Insurance and Legal	LS	1.00	1.00%	166,500.00	
Contingency	LS	1.00	30.00%	4,995,000.00	
Municipality Tax (not included)	LS	0.00	0.00%	0.00	
Subtotal				9,990,000.00	
R/W Costs	SF	958000.00	20.00	19,160,000.00	
ROW Additive			25.00%	4,790,000.00	Because of large parcel size, this factor is reduced to 25% for this line item.
Subtotal				23,950,000.00	
TOTAL				50,590,000.00	
CENTRAL CONTROL FACILITY					
Structure	LS	1	2,000,000.00	2,000,000.00	
Elec/Mech/Plumbing	LS	1	200,000.00	200,000.00	
Site Work/Landscaping	LS	1	25,000.00	25,000.00	
Control System	LS	1	1,000,000.00	1,000,000.00	
Communication System	LS	1	1,000,000.00	1,000,000.00	
SUBTOTAL				4,225,000.00	
Mobilization	LS	1.00	3.00%	126,750.00	
Design	LS	1.00	12.00%	507,000.00	
Construction Management	LS	1.00	12.00%	507,000.00	
Administration	LS	1.00	2.00%	84,500.00	
Insurance and Legal	LS	1.00	1.00%	42,250.00	
Contingency	LS	1.00	30.00%	1,267,500.00	
Municipality Tax (not included)	LS	0.00	0.00%	0.00	
Subtotal				2,535,000.00	
R/W Costs	SF	0.00	20.00	0.00	Included in the above.
ROW Additive			25.00%	0.00	Because of large parcel size, this factor is reduced to 25% for this line item.
Subtotal				0.00	
TOTAL				6,760,000.00	

Tranvía de Carolina Light Rail Project

SEGMENT blank	From:				Stations:
	To:				
	Length:	0 Feet 0 Miles			
ITEM	UNIT	QUANTITY	UNIT COST	COST	REMARKS
LINE					
Guideway - Standard	LF	0.00	#REF!	#REF!	
Substructure - Standard	EA	0.00	#REF!	#REF!	
Guideway - Special	LF		0.00	0.00	
Substructure - Special	EA		0.00	0.00	
Walkway	LF	0.00	#REF!	#REF!	
Noise Abatement	LF	0.00	#REF!	#REF!	
Switches	EA	0	#REF!	#REF!	
Electrification	MILE	0.00	#REF!	#REF!	
Transformer Substations	EA	0.00	#REF!	#REF!	One per mile
Signals	MILE	0.00	#REF!	#REF!	
Control System	MILE	0.00	#REF!	#REF!	
Communication System	MILE	0.00	#REF!	#REF!	
			#REF!		
SUBTOTAL				#REF!	
Utility Relocation	LS	1.00	#REF!	#REF!	
Roadway Reconstruction	LS	1.00	#REF!	#REF!	
Signing & Striping	LS	1.00	#REF!	#REF!	
Traffic Control	LS	1.00	#REF!	#REF!	
LINE TOTAL				#REF!	
STATIONS					
Neighborhood (X S.F.)	EA		#REF!	#REF!	
Community (Y S.F.)	EA		#REF!	#REF!	
Regional (Z S.F.)	EA		#REF!	#REF!	
Bus Bays	EA		#REF!	#REF!	
Parking (400 SF/Space)	SP		#REF!	#REF!	
SUBTOTAL				#REF!	
Drainage	LS	1.00	#REF!	#REF!	
Urban Design/Landscaping	LS	1.00	#REF!	#REF!	
STATION TOTAL				#REF!	
SEGMENT SUBTOTAL				#REF!	
Mobilization	LS	1.00	#REF!	#REF!	
Contingencies	LS	1.00	#REF!	#REF!	
Design	LS	1.00	#REF!	#REF!	
Construction Management	LS	1.00	#REF!	#REF!	
Insurance and Legal	LS	1.00	#REF!	#REF!	
Subtotal				#REF!	
Right-of-Way Costs					
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
#REF!	SF	0	#REF!	#REF!	
Subtotal				#REF!	
SEGMENT TOTAL				#REF!	