

Schematic Construction Cost Estimate

San Juan Multimodal Transportation System

Central Park Connector

Revision Date: April 14, 2014



COMMONWEALTH OF
PUERTO RICO
Puerto Rico Infrastructure
Financing Authority

Item	Description	Quantity	Unit	Unit Price	Total Amount
1	General Requirements				1,609,074.00
1.1	Equipment of General Use	18	Mo	5,000.00	90,000.00
1.2	Mobilization and Demobilization	2	Each	20,000.00	40,000.00
1.3	Project Engineers and Support Staff	18	Mo	17,000.00	306,000.00
1.4	Project Foreman (2 at \$3,200.00 ea.)	18	Mo	6,400.00	115,200.00
1.5	Safety Equipment and Meetings	15	Mo	1,500.00	22,500.00
1.6	CPM	1	Mo	3,000.00	3,000.00
1.7	CPM Monthly Updates	17	Mo	500.00	8,500.00
1.8	Punch List	1	Each	10,000.00	10,000.00
1.9	General Contractor Inspector's Office	2	Each	16,000.00	32,000.00
1.1	Watchman Services	18	Mo	4,000.00	72,000.00
1.11	Warehouse and Shops	4	Each	5,000.00	20,000.00
1.12	Office Equipment and Supplies	18	Mo	500.00	9,000.00
1.13	Office Operation (Telephone, Fax and Computers)	18	Mo	500.00	9,000.00
1.14	Electrical Power, Telephone, Data, Water and Ice)	18	Mo	3,000.00	54,000.00
1.15	Miscellaneous Monthly Expenses	18	Mo	800.00	14,400.00
1.16	Projects Monthly Photographs	18	Mo	300.00	5,400.00
1.17	Worksmen Comp., Soc. Sec., Unemployment and Disability	1	LS	81,717.00	81,717.00
1.18	IVU	1	LS	76,241.00	76,241.00
1.19	Insurance and Bonds	1	LS	231,531.00	231,531.00
1.2	Overhead and Profit	1	LS	408,585.00	408,585.00
2	Soil Erosion and Water Pollution Control				4,312.50
2.1	Straw Bales	250	Each	17.25	4,312.50

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Item	Description	Quantity	Unit	Unit Price	Total Amount
3	Trails and Sidewalks				560,094.00
3.1	Unclassified Excavation	2,500	CuM	16.00	40,000.00
3.2	General Demolition	1	LS	40,000.00	40,000.00
3.3	Sub-base Course	410	CuM	20.70	8,487.00
3.4	Aggregate Base Course	665	CuM	36.80	24,472.00
3.5	Portland Cement Concrete Sidewalk	2,140	SqM	40.25	86,135.00
3.6	Concrete Curb	180	CuY	350.00	63,000.00
3.7	Class "A" Concrete (Concrete Slab)	260	CuY	350.00	91,000.00
3.8	Crushed Stone Trails and Edgeguards	1	LS	57,000.00	57,000.00
3.9	Curb (Jogging Trail)	3,950	LnM	30.00	118,500.00
3.1	Strret Treatment at Intersections and Pedestrian Crossings	9	Each	3,500.00	31,500.00
4	Asphalt Pavement				17,940.00
4.1	Asphalt Bituminous Pavement	120	Tons	149.50	17,940.00
5	Drainage System				68,410.00
5.1	4" Dia perforated Pipes	2,196	LnM	6.00	13,176.00
5.2	6" Dia PVC Pipes	153	LnM	12.00	1,836.00
5.3	12" Dia PVC Pipes	34	LnM	22.00	748.00
5.4	12" x 12" Catch Basins	35	CuM	450.00	15,750.00
5.5	48" Manhole	1	Each	3,500.00	3,500.00
5.6	Trench Excavations	410	CuM	40.00	16,400.00
5.7	Crushed Stone	1	Each	3,500.00	3,500.00
5.8	Geotextiles	5,400	SqM	2.50	13,500.00
6	Traffic Signing & Pavement Marking				12,000.00
6.1	Thermoplastic Pavement Marking	1	LS	12,000.00	12,000.00

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Item	Description	Quantity	Unit	Unit Price	Total Amount
7	Irrigation System				161,175.00
7.1	Sprinkler head Removal	225	Each	65.00	14,625.00
7.2	New Sprinkler Heads (Various Types)	750	Each	125.00	93,750.00
7.3	Existing Valve relocation and/or Re-utilization	12	Each	150.00	1,800.00
7.4	New Valves As Per Requirements	15	Each	400.00	6,000.00
7.5	New Control Panels	2	Each	10,000.00	20,000.00
7.6	Control panels to Remain (re-wiring)	1	Each	5,000.00	5,000.00
7.7	Water Meter w/ Boxes (2")	2	Each	10,000.00	20,000.00
8	Lighting System				569,417.00
8.1	Underground Ducts, Electrical Conductors & Transformers	830	LnF	25.00	20,750.00
8.2	Pathway Lighting One Side (L-1)	224	Each	70.00	15,680.00
8.3	Pathway Lighting Double Side (L-2)	92	Each	80.00	7,360.00
8.4	Lighting Pole - One Arm (LP-1) DAE - Tronic	16	Each	6,266.00	100,256.00
8.5	Lighting Pole - Two Arms (LP-2) DAE - Tronic	29	Each	7,884.00	228,636.00
8.6	Lighting Fixture Assembly (L-1 & L-2)	316	Each	190.00	60,040.00
8.7	Lighting Fixture Base (L-1 & L-2)	316	Each	300.00	94,800.00
8.9	Lighting Pole Assembly (LP-1 & LP-2)	45	Each	436.00	19,620.00
8.10	Concrete Bases for Lighting Poles and Installation (LP-1 & LP-2)	45	Each	495.00	22,275.00
9	Telephone Utilities				25,000.00
9.1	Removal of Abandoned Telephone Utilities as Required	1	LS	25,000.00	25,000.00
10	Cable TV Utilities				10,000.00
10.1	Removal of Abandones Cable TV Utilities as Required	1	LS	10,000.00	10,000.00

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Item	Description	Quantity	Unit	Unit Price	Total Amount
11	Landscape & Trail Furniture				484,565.00
11.1	Palm Trees	51	Each	2,300.00	117,300.00
11.2	Trees	112	Each	920.00	103,040.00
11.3	Shrubs	15,275	Each	7.00	106,925.00
11.4	Grass	17,500	SF	1.00	17,500.00
11.5	Top Soil	500	CuM	70.00	35,000.00
11.6	Bollards	36	Each	1,050.00	37,800.00
11.7	Bike Loops / Racks	60	Each	450.00	27,000.00
11.8	Architectural Signage and Bases	1	LS	40,000.00	40,000.00
Total Construction Cost Estimate					3,521,987.50