

APPENDIX F

Miscellaneous Information



Memphis Innovation Corridor Project Cost Estimate

All costs in thousands

10% Contingency

		Quantity	Units	Unit Costs Discounted to 2019 Base Year	Base Year Dollars w/o Contingency	Base Year Dollars Allocated Contingency	Base Year (2019) Total Dollars TOTAL
10 GUIDEWAY & TRACK ELEMENTS (route miles)					4,948	495	5,443
10.01	Guideway: At-grade exclusive right-of-way						0
10.02	Guideway: At-grade semi-exclusive (allows cross-traffic)						0
10.03	Guideway: At-grade in mixed traffic						
10.03	Guideway: At-Grade in Mixed traffic - Union, 2nd, 3rd paving				4,948	495	5,443
	Milling	16362.7	Ton	0.03	409	41	450
	Pavement Repairs	7532	Ton	0.17	1,270	127	1,397
	Resurfacing Asphalt	17319	Ton	0.10	1,702	170	1,872
	Concrete Station Pads	2240	SY	0.15	336	34	370
	Striping Lane Lines	17.78	L.M.	8	142	14	156
	Striping Crosswalks	13,325	LF	0.015	200	20	220
	Striping Stop Bars	4,945	LF	0.17	841	84	925
	Striping Words/Arrows	269	Each	0.18	48	5	53
10.04	Guideway: Aerial structure						0
10.05	Guideway: Built-up fill						0
10.06	Guideway: Underground cut & cover						0
10.07	Guideway: Underground tunnel						0
10.08	Guideway: Retained cut or fill						0
10.09	Track: Direct fixation						0
10.1	Track: Embedded						0
10.11	Track: Ballasted						0
10.12	Track: Special (switches, turnouts)						0
10.13	Track: Vibration and noise dampening						0
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)		28			12,600	1,260	13,860
20.01	At-grade station, stop, shelter, mall, terminal, platform						
20.01	At-grade station, stop, shelter, mall, terminal, platform	28	Each	450	12,600	1260	13,860
20.02	Aerial station, stop, shelter, mall, terminal, platform						0
20.03	Underground station, stop, shelter, mall, terminal, platform						0
20.04	Other stations, landings, terminals: Intermodal, ferry, trolley, etc.						0
20.05	Joint development						0
20.06	Automobile parking multi-story structure						0
20.07	Elevators, escalators						0

		Quantity	Units	Unit Costs Discounted to 2019 Base Year	Base Year Dollars w/o Contingency	Base Year Dollars Allocated Contingency	Base Year (2019) Total Dollars TOTAL
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS					0	0	0
30.01	Administration Building: Office, sales, storage, revenue counting						0
30.02	Light Maintenance Facility						0
30.03	Heavy Maintenance Facility						0
30.04	Storage or Maintenance of Way Building						0
30.05	Yard and Yard Track						0
40 SITEWORK & SPECIAL CONDITIONS					3,560	356	3,916
40.01	Demolition, Clearing, Earthwork				80	8	88
40.02	Site Utilities, Utility Relocation						0
40.03	Haz. mat'l, contam'd soil removal/mitigation, ground water treatments						0
40.04	Environmental mitigation, e.g. wetlands, historic/archeologic, parks						0
40.05	Site structures including retaining walls, sound walls						0
40.06	Pedestrian / bike access and accommodation, landscaping						
	Signalized Intersection Curb Ramps (By Corner) Included in signal modernization cost	0	Each	0	0	0	0
	Unsignalized Intersection Curb Ramps (By Corner)	140	Each	4	560	56	616
	Driveway Replacements	80	Each	3	240	24	264
	Curb Modifications - Second and Third Street Only	18.5	Each	100	1,850	185	2,035
	HAWK Signal	1	Each	100	100	10	110
40.07	Automobile, bus, van accessways including roads, parking lots						0
40.08	Temporary Facilities and other indirect costs during construction				730	73	803
50 SYSTEMS					18,858	1,887	20,745
50.01	Train control and signals						0
50.02	Traffic signals and crossing protection						
	Signal Modifications - GPS EVP	4	Each	14	56	6	62
	Signal Modifications - Rewire and replace displays	17	Each	153	2,601	260	2,861
	Signal Modifications - Modernize to Mast Arm - DT and Union	11	Each	355	3,905	391	4,296
	Signal Modifications - Modernize to Mast Arm - Poplar area	12	Each	355	4,260	426	4,686
	ATMS with Adaptive Control System	1	Each	1200	1,200	120	1,320
50.03	Traction power supply: substations					0	0
50.04	Traction power distribution: catenary and third rail					0	0
	Vehicle Charging Stations and Facilities	2	LS	1718	3,436	344	3,780
50.05	Communications				1,600	160	1,760
	LED Street Lighting	600	Lights	3	1,800	180	1,980
50.06	Fare collection system and equipment						0

		Quantity	Units	Unit Costs Discounted to 2019 Base Year	Base Year Dollars w/o Contingency	Base Year Dollars Allocated Contingency	Base Year (2019) Total Dollars TOTAL
50.07	Central Control						0
Construction Subtotal (10 - 50)					39,966	3,998	43,964
60 ROW, LAND, EXISTING IMPROVEMENTS					2800	280	3080
60.01	Purchase or lease of real estate				2800	280	3080
60.02	Relocation of existing households and businesses						0
70 VEHICLES (number)		9			7,965	797	8,762
70.01	Light Rail						0
70.02	Heavy Rail						0
70.03	Commuter Rail						0
70.04	Bus	9	each	885	7,965	797	8,762
70.05	Other						0
70.06	Non-revenue vehicles						0
70.07	Spare parts						0
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)					13,189	1,320	14,509
80.01	Project Development			1.00%	440	44	484
80.02	Engineering (not applicable to Small Starts?)			10.00%	4396	440	4836
80.03	Project Management for Design and Construction			5.00%	2198	220	2418
80.04	Construction Administration & Management			10.00%	4396	440	4836
80.05	Professional Liability and other Non-Construction Insurance			0.50%	220	22	242
80.06	Legal; Permits; Review Fees by other agencies, cities, etc.			0.50%	220	22	242
80.07	Surveys, Testing, Investigation, Inspection			2.00%	879	88	967
80.08	Start up			1.00%	440	44	484
Subtotal (10 - 80)					61,120	6,115	70,315
90 UNALLOCATED CONTINGENCY				5%			3,516
Subtotal (10 - 90)							73,831
100 FINANCE CHARGES - Inflation							0
Total Project Cost (10 - 100)							73,831
Allocated Contingency as % of Base Yr Dollars w/o Contingency							10.00%
Unallocated Contingency as % of Base Yr Dollars w/o Contingency							5.75%
Total Contingency as % of Base Yr Dollars w/o Contingency							15.76%
Unallocated Contingency as % of Subtotal (10 - 80)							5.00%

Local Match (20%)

14,766