

Summary Based on 5/3/11 Estimate prepared by CET

2015

		Highway	BRT	CRT	Bridge
B	Busway/Busway	1210	4885	4168 5113	5895 6065
C	Busway/Buslane	1210	4114	4168 5113	5913 6083
D	HOV/Busway	3645	2519	4419 5364	5896 6045
E	HOV/Buslane	3645	1748	4419 5364	5913 6083

BRT-R	BRT-W
2859	2026
2859	1255
493	2026
493	1255

2012

2015 minus 4.5% for 3 years compounded (14% deduction)

		Highway	BRT - R	CRT	Bridge
B	Busway/Busway	1041	4201	3584 4397	5070 5216
C	Busway/Buslane	1041	3538	3584 4397	5085 5231
D	HOV/Busway	3135	2166	3800 4613	5071 5199
E	HOV/Buslane	3135	1503	3800 4613	5085 5231

BRT-R	BRT-W
2459	1742
2459	1079
424	1742
424	1079

BREAK APART CRT & BRT FROM THE TIER 2 COMPONENT SUMMARY SHEET DATED 5/3/11 by CET

BRT & CRT

	Busway	HOV	Busway	HOV	Single	Dual	Busway	HOV	Long	Short	TTSC	Busway	Buslane
HIGHWAY													
Demolition - Structures	11.97												
Earthwork													
Rock Excavation													
Retaining Walls - Fill												29.81	52.93
Retaining Walls - Cut												158.27	81.84
Vegatated Rock Slope													
Noise Walls													
Bridge - Thruway on Structure	7.24											26.32	47.19
Bridge - Structures Over Thruway	31.51												
Bridge Temporary Bridges	15.75												
Thruway Pavement & Finishes												51.74	41.56
Interchange Ramps													
Drainage	83.61	80.37							10.00	10.00	5.00	40.00	40.00
State & Local Roads													
Local Road Pavement & Finishes	24.36												
Pedestrian Facilities													
Paths, Connections	12.50												
Utilities													
Public & Private	111.58	104.67							10.00	10.00	5.00	40.00	40.00
BRT													
Earthwork	0.56												
Rock Excavation	202.14												
Retaining Wall - Fill	124.65		1.43								1.33		9.09
Retaining Wall - Cut	438.54		3.86								7.25		
Viaduct											14.02	349.17	102.28
Bridges	29.90												
Tunnels - Cut/Fill	49.00											21.00	
Texas T - Ramps		72.22											
Texas T - Bidges		12.46											
Texas T - At Grade Pavements		11.48											
Stations	36.00	36.00										30.00	30.00
Depots	10.00	10.00										10.00	10.00
Pavement \$ Finishes	52.86		0.94								3.02		
Interchange Ramps	117.68	0.61											
ITS	50.00	50.00											
Drainage													
Utilities													
CRT													
Earthwork									8.38	0.86			
Retaining Wall - Fill	215.08	253.22							4.48	11.62			
Retaining Wall - Cut	76.90	231.74	13.78	13.78					86.09	3.29			
Viaduct	140.29	140.29								6.10			
Bridges	29.21	47.87								4.28			
Tunnels - Cut/Cover	192.50	192.50							52.50	31.50			
Tunnels - TBM	165.00	165.00	29.70	29.70					189.20	39.60			
Stations	33.00	33.00											
Track Infrastructure	82.84	82.84	4.36	4.36			1.53	1.53					
Signal Systems	38.00	38.00											
Substations	32.00	32.00					6.00	6.00					
SUTOTAL	2414.67	1594.27	54.07	47.84	0.00	0.00	7.53	7.53	360.65	117.25	35.62	756.31	454.89
Indirects 25%	603.67	398.57	13.52	11.96	0.00	0.00	1.88	1.88	90.16	29.31	8.91	189.08	113.72
Base Construction Cost	3018.34	1992.84	67.59	59.80	0.00	0.00	9.41	9.41	450.81	146.56	44.53	945.39	568.61
Construction Contingency 30%	905.50	597.85	20.28	17.94	0.00	0.00	2.82	2.82	135.24	43.97	13.36	283.62	170.58
SUBTOTAL	3923.84	2590.69	87.86	77.74	0.00	0.00	12.24	12.24	586.06	190.53	57.88	1229.00	739.20
MPT 2.5%	98.10	64.77	2.20	1.94	0.00	0.00	0.31	0.31	14.65	4.76	1.45	30.73	18.48
Profit 12%	470.86	310.88	10.54	9.33	0.00	0.00	1.47	1.47	70.33	22.86	6.95	147.48	88.70
TOTAL CONSTRUCTION COST	4492.80	2966.34	100.60	89.01	0.00	0.00	14.01	14.01	671.03	218.16	66.28	1407.21	846.38
Design Engineering 2%	89.86	59.33	2.01	1.78	0.00	0.00	0.28	0.28	13.42	4.36	1.33	28.14	16.93
Program Management 2%	89.86	59.33	2.01	1.78	0.00	0.00	0.28	0.28	13.42	4.36	1.33	28.14	16.93
Construction Management 3%	134.78	88.99	3.02	2.67	0.00	0.00	0.42	0.42	20.13	6.54	1.99	42.22	25.39
Construction Inspection 2%	89.86	59.33	2.01	1.78	0.00	0.00	0.28	0.28	13.42	4.36	1.33	28.14	16.93
Construction Support Service 1%	44.93	29.66	1.01	0.89	0.00	0.00	0.14	0.14	6.71	2.18	0.66	14.07	8.46
SOFT COSTS SUBTOTAL	449.28	296.63	10.06	8.90	0.00	0.00	1.40	1.40	67.10	21.82	6.63	140.72	84.64
SUBTOTAL	4942.07	3262.97	110.66	97.91	0.00	0.00	15.41	15.41	738.14	239.97	72.90	1547.93	931.02
Escalation 25%	1235.52	815.74	27.67	24.48	0.00	0.00	3.85	3.85	184.53	59.99	18.23	386.98	232.75
TOTAL	6177.59	4078.72	138.33	122.39	713.94	391.77	19.26	19.26	922.67	299.97	91.13	1934.91	1163.77
	1	2	3	4	5	6	7	8	9	10	11	12	13

B	Busway	Single	Long	TTSC	Busway	9997.84	Range	9053	9998
	Busway	Single	Short	TTSC	Busway	9375.14			
	Busway	Dual	Long	TTSC	Busway	9675.67			
	Busway	Dual	Short	TTSC	Busway	9052.97			
C	Busway	Single	Long	TTSC	Buslane	9226.70	Range	8282	9227
	Busway	Single	Short	TTSC	Buslane	8604.00			
	Busway	Dual	Long	TTSC	Buslane	8904.53			
	Busway	Dual	Short	TTSC	Buslane	8281.83			
D	HOV/HOT	Single	Long	TTSC	Busway	7883.03	Range	6938	7883
	HOV/HOT	Single	Short	TTSC	Busway	7260.32			
	HOV/HOT	Dual	Long	TTSC	Busway	7560.86			
	HOV/HOT	Dual	Short	TTSC	Busway	6938.15			
E	HOV/HOT	Single	Long	TTSC	Buslane	7111.89	Range	6167	7112
	HOV/HOT	Single	Short	TTSC	Buslane	6489.18			
	HOV/HOT	Dual	Long	TTSC	Buslane	6789.72			
	HOV/HOT	Dual	Short	TTSC	Buslane	6167.01			

BREAK APART CRT & BRT FROM THE TIER 2 COMPONENT SUMMARY SHEET DATED 5/3/11 by CET

	Busway	HOV	Busway	HOV	Single	Dual	Busway	HOV	Long	Short	TTSC	Busway	Buslane
HIGHWAY													
Demolition - Structures													
Earthwork													
Rock Excavation													
Retaining Walls - Fill												29.81	52.93
Retaining Walls - Cut												158.27	81.84
Vegatated Rock Slope													
Noise Walls													
Bridge - Thruway on Structure												26.32	47.19
Bridge - Structures Over Thruway													
Bridge Temporary Bridges													
Thruway Pavement & Finishes												51.74	41.56
Interchange Ramps													
Drainage											5.00	40.00	40.00
State & Local Roads													
Local Road Pavement & Finishes													
Pedestrian Facilities													
Paths, Connections													
Utilities													
Public & Private											5.00	40.00	40.00
BRT													
Earthwork	0.56												
Rock Excavation	202.14												
Retaining Wall - Fill	124.65		1.43								1.33		9.09
Retaining Wall - Cut	438.54		3.86								7.25		
Viaduct											14.02	349.17	102.28
Bridges	29.90												
Tunnels - Cut/Fill	49.00											21.00	
Texas T - Ramps		72.22											
Texas T - Bidges		12.46											
Texas T - At Grade Pavements		11.48											
Stations	36.00	36.00										30.00	30.00
Depots	10.00	10.00										10.00	10.00
Pavement \$ Finishes	52.86		0.94								3.02		
Interchange Ramps	117.68	0.61											
ITS	50.00	50.00											
Drainage													
Utilities													
CRT													
Earthwork													
Retaining Wall - Fill													
Retaining Wall - Cut													
Viaduct													
Bridges													
Tunnels - Cut/Cover													
Tunnels - TBM													
Stations													
Track Infrastructure													
Signal Systems													
Substations													
SUTOTAL	1111.33	192.77	6.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.62	756.31	454.89
Indirects 25%	277.83	48.19	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.91	189.08	113.72
Base Construction Cost	1389.16	240.96	7.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.53	945.39	568.61
Construction Contingency 30%	416.75	72.29	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.36	283.62	170.58
SUBTOTAL	1805.91	313.25	10.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.88	1229.00	739.20
MPT 2.5%	45.15	7.83	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	30.73	18.48
Profit 12%	216.71	37.59	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.95	147.48	88.70
TOTAL CONSTRUCTION COST	2067.77	358.67	11.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.28	1407.21	846.38
Design Engineering 2%	41.36	7.17	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	28.14	16.93
Program Management 2%	41.36	7.17	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	28.14	16.93
Construction Management 3%	62.03	10.76	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.99	42.22	25.39
Construction Inspection 2%	41.36	7.17	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	28.14	16.93
Construction Support Service 1%	20.68	3.59	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	14.07	8.46
SOFT COSTS SUBTOTAL	206.78	35.87	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.63	140.72	84.64
SUBTOTAL	2274.55	394.54	12.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.90	1547.93	931.02
Escalation 25%	568.64	98.63	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.23	386.98	232.75
TOTAL	2843.18	493.17	15.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.13	1934.91	1163.77

B	Busway	Single	Long	Busway	4885.16		
	Busway	Single	Short	Busway	4885.16	Rockland - Busway	2859
	Busway	Dual	Long	Busway	4885.16	Rockland - HOV	493
	Busway	Dual	Short	Busway	4885.16	Westchester - Busway	2026
C	Busway	Single	Long	Buslane	4114.02	Westchester - Buslane	1255
	Busway	Single	Short	Buslane	4114.02		
	Busway	Dual	Long	Buslane	4114.02		
	Busway	Dual	Short	Buslane	4114.02		
D	HOV/HOT	Single	Long	Busway	2519.22		
	HOV/HOT	Single	Short	Busway	2519.22		
	HOV/HOT	Dual	Long	Busway	2519.22		
	HOV/HOT	Dual	Short	Busway	2519.22		
E	HOV/HOT	Single	Long	Buslane	1748.08		
	HOV/HOT	Single	Short	Buslane	1748.08		
	HOV/HOT	Dual	Long	Buslane	1748.08		
	HOV/HOT	Dual	Short	Buslane	1748.08		

BREAK APART CRT & BRT FROM THE TIER 2 COMPONENT SUMMARY SHEET DATED 5/3/11 by CET

	Busway	HOV	Busway	HOV	Single	Dual	Busway	HOV	Long	Short	TTSC	Busway	Buslane
HIGHWAY													
Demolition - Structures	11.97												
Earthwork													
Rock Excavation													
Retaining Walls - Fill													
Retaining Walls - Cut													
Vegatated Rock Slope													
Noise Walls													
Bridge - Thruway on Structure	7.24												
Bridge - Structures Over Thruway	31.51												
Bridge Temporary Bridges	15.75												
Thruway Pavement & Finishes													
Interchange Ramps													
Drainage	83.61	80.37							10.00	10.00			
State & Local Roads													
Local Road Pavement & Finishes	24.36												
Pedestrian Facilities													
Paths, Connections	12.50												
Utilities													
Public & Private	111.58	104.67							10.00	10.00			
BRT													
Earthwork													
Rock Excavation													
Retaining Wall - Fill													
Retaining Wall - Cut													
Viaduct													
Bridges													
Tunnels - Cut/Fill													
Texas T - Ramps													
Texas T - Bidges													
Texas T - At Grade Pavements													
Stations													
Depots													
Pavement \$ Finishes													
Interchange Ramps													
ITS													
Drainage													
Utilities													
CRT													
Earthwork									8.38	0.86			
Retaining Wall - Fill	215.08	253.22							4.48	11.62			
Retaining Wall - Cut	76.90	231.74	13.78	13.78					86.09	3.29			
Viaduct	140.29	140.29								6.10			
Bridges	29.21	47.87								4.28			
Tunnels - Cut/Cover	192.50	192.50							52.50	31.50			
Tunnels - TBM	165.00	165.00	29.70	29.70					189.20	39.60			
Stations	33.00	33.00											
Track Infrastructure	82.84	82.84	4.36	4.36			1.53	1.53					
Signal Systems	38.00	38.00											
Substations	32.00	32.00					6.00	6.00					
SUTOTAL	1303.34	1401.50	47.84	47.84	0.00	0.00	7.53	7.53	360.65	117.25	0.00	0.00	0.00
Indirects 25%	325.84	350.38	11.96	11.96	0.00	0.00	1.88	1.88	90.16	29.31	0.00	0.00	0.00
Base Construction Cost	1629.18	1751.88	59.80	59.80	0.00	0.00	9.41	9.41	450.81	146.56	0.00	0.00	0.00
Construction Contingency 30%	488.75	525.56	17.94	17.94	0.00	0.00	2.82	2.82	135.24	43.97	0.00	0.00	0.00
SUBTOTAL	2117.93	2277.44	77.74	77.74	0.00	0.00	12.24	12.24	586.06	190.53	0.00	0.00	0.00
MPT 2.5%	52.95	56.94	1.94	1.94	0.00	0.00	0.31	0.31	14.65	4.76	0.00	0.00	0.00
Profit 12%	254.15	273.29	9.33	9.33	0.00	0.00	1.47	1.47	70.33	22.86	0.00	0.00	0.00
TOTAL CONSTRUCTION COST	2425.03	2607.67	89.01	89.01	0.00	0.00	14.01	14.01	671.03	218.16	0.00	0.00	0.00
Design Engineering 2%	48.50	52.15	1.78	1.78	0.00	0.00	0.28	0.28	13.42	4.36	0.00	0.00	0.00
Program Management 2%	48.50	52.15	1.78	1.78	0.00	0.00	0.28	0.28	13.42	4.36	0.00	0.00	0.00
Construction Management 3%	72.75	78.23	2.67	2.67	0.00	0.00	0.42	0.42	20.13	6.54	0.00	0.00	0.00
Construction Inspection 2%	48.50	52.15	1.78	1.78	0.00	0.00	0.28	0.28	13.42	4.36	0.00	0.00	0.00
Construction Support Service 1%	24.25	26.08	0.89	0.89	0.00	0.00	0.14	0.14	6.71	2.18	0.00	0.00	0.00
SOFT COSTS SUBTOTAL	242.50	260.77	8.90	8.90	0.00	0.00	1.40	1.40	67.10	21.82	0.00	0.00	0.00
SUBTOTAL	2667.53	2868.43	97.91	97.91	0.00	0.00	15.41	15.41	738.14	239.97	0.00	0.00	0.00
Escalation 25%	666.88	717.11	24.48	24.48	0.00	0.00	3.85	3.85	184.53	59.99	0.00	0.00	0.00
TOTAL	3334.41	3585.54	122.39	122.39	713.94	391.77	19.26	19.26	922.67	299.97	0.00	0.00	0.00

B	Busway	Single	Long	Busway	5112.68
	Busway	Single	Short	Busway	4489.98
	Busway	Dual	Long	Busway	4790.51
	Busway	Dual	Short	Busway	4167.81
C	Busway	Single	Long	Buslane	5112.68
	Busway	Single	Short	Buslane	4489.98
	Busway	Dual	Long	Buslane	4790.51
	Busway	Dual	Short	Buslane	4167.81
D	HOV/HOT	Single	Long	Busway	5363.81
	HOV/HOT	Single	Short	Busway	4741.10
	HOV/HOT	Dual	Long	Busway	5041.64
	HOV/HOT	Dual	Short	Busway	4418.93
E	HOV/HOT	Single	Long	Buslane	5363.81
	HOV/HOT	Single	Short	Buslane	4741.10
	HOV/HOT	Dual	Long	Buslane	5041.64
	HOV/HOT	Dual	Short	Buslane	4418.93

Taken From Summary Sheet