



Opinion of Probable Cost - Atlantic Shores Blvd Design Project (Design and Construction)

Prepared by Marlin Engineering
Name: Atlantic Blvd Design Project

Estimator: Jose Santiago
Date: 04/21/2021

Description: Milling and Resurfacing and Widening of Atlantic Shores Blvd from SR 5 to Diplomat Parkway. Includes a shared use path, a roundabout at 12th Ave., lighting, and signalization with Mast Arms at 14th Avenue and Diplomat Parkway.

EARTHWORK COMPONENT

Pay Items					
Pay Item	Description	Total Quantity	Unit	Weighted Avg. Unit Price	Total Amount
110-1-1	CLEARING & GRUBBING	6.62	AC	\$35,760.38	\$236,733.72
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	6,295.38	CY	\$35.09	\$220,904.88
145-2	GEOSYNTHETIC REINF FND OVER SOFT SOIL	15,273.00	SY	\$5.38	\$82,168.74
Earthwork Component Total					\$539,807.34

ROADWAY COMPONENT

Pay Items					
Pay Item	Description	Total Quantity	Unit	Weighted Avg. Unit Price	Total Amount
160-4	TYPE B STABILIZATION	34,840.00	SY	\$7.17	\$249,802.80
285-709	OPTIONAL BASE,BASE GROUP 09	22,340.00	SY	\$26.75	\$597,595.01
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	13,100.00	SY	\$3.81	\$49,911.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	3,610.00	TN	\$162.93	\$588,177.30
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	1,850.00	TN	\$146.50	\$271,025.00
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	102.00	EA	\$4.75	\$484.50
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	6.06	GM	\$886.40	\$5,371.58
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.52	GM	\$370.33	\$562.90
EX-Items					
Pay Item	Description	Total Quantity	Unit	Weighted Avg. Unit Price	Total Amount
1XX-XXX	ROUNDAABOUT AT NE 12TH AVE	1.00	LS	\$580,000.00	\$580,000.00



Roadway Component Total

\$2,342,930.08

SHOULDER COMPONENT

Pay Items					
Pay Item	Description	Total Quantity	Unit	Weighted Avg. Unit Price	Total Amount
104-10-3	SEDIMENT BARRIER	8,004.48	LF	\$1.85	\$14,808.29
104-11	FLOATING TURBIDITY BARRIER	75.80	LF	\$12.70	\$962.66
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	75.80	LF	\$5.16	\$391.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$1,812.15	\$1,812.15
104-18	INLET PROTECTION SYSTEM	39.00	EA	\$122.16	\$4,764.24
107-1	LITTER REMOVAL	3.49	AC	\$32.01	\$111.71
107-2	MOWING	1.00	AC	\$59.67	\$59.67
520-2-4	CONCRETE CURB, TYPE D	16,008.96	LF	\$19.69	\$315,216.43
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	10,500.00	SY	\$43.02	\$451,710.00
570-1-1	PERFORMANCE TURF	5,781.01	SY	\$2.26	\$13,065.08
Shoulder Component Total					\$802,901.36

DRAINAGE COMPONENT

Pay Items					
Pay Item	Description	Total Quantity	Unit	Weighted Avg. Unit Price	Total Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	28.00	EA	\$6,302.70	\$176,475.60
425-1-451	INLETS, CURB, TYPE J-5, <10'	8.00	EA	\$7,622.02	\$60,976.16
425-1-521	INLETS, DT BOT, TYPE C, <10'	4.00	EA	\$4,000.30	\$16,001.20
425-2-41	MANHOLES, P-7, <10'	4.00	EA	\$5,922.42	\$23,689.68
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	1,472.00	LF	\$192.63	\$283,551.36
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	3,792.00	LF	\$383.49	\$1,454,194.08
570-1-1	PERFORMANCE TURF	230.43	SY	\$2.26	\$520.77
Drainage Component Total					\$2,015,408.85

SIGNING COMPONENT

Pay Items					
Pay Item	Description	Total Quantity	Unit	Weighted Avg. Unit Price	Total Amount
700-1-11	SINGLE POST SIGN, F&I GM,	14.00	AS	\$351.01	\$4,914.14
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	2.00	AS	\$1,053.31	\$2,106.62
700-1-50	SINGLE POST SIGN, RELOCATE	2.00	AS	\$267.76	\$535.52



700-1-60	SINGLE POST SIGN, REMOVE	14.00	AS	\$28.44	\$398.16
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	2.00	AS	\$4,628.28	\$9,256.56
700-2-60	MULTI- POST SIGN, REMOVE	2.00	AS	\$601.91	\$1,203.82
Signing Component Total					\$18,414.82

LIGHTING COMPONENT

Pay Items					
Pay Item	Description	Total Quantity	Unit	Weighted Avg. Unit Price	Total Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,000.00	LF	\$10.71	\$10,710.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	6,000.00	LF	\$21.39	\$128,339.98
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24"	16.00	EA	\$687.39	\$10,998.24
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	15,000.00	LF	\$2.38	\$35,700.00
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	16.00	EA	\$6,161.48	\$98,583.68
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	16.00	EA	\$567.72	\$9,083.52
Lighting Component Total					\$293,415.42

SIGNALIZATIONS COMPONENT

Pay Items					
Pay Item	Description	Total Quantity	Unit	Weighted Avg. Unit Price	Total Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,600.00	LF	\$10.71	\$17,136.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	400.00	LF	\$21.39	\$8,556.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	2.00	PI	\$5,754.51	\$11,509.02
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24"	24.00	EA	\$687.39	\$16,497.36
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	2.00	AS	\$2,791.46	\$5,582.92
639-2-1	ELECTRICAL SERVICE WIRE, F&I	120.00	LF	\$5.62	\$674.40
649-21-4	STEEL MAST ARM ASSEMBLY, F&I, 40'- 30'	8.00	EA	\$61,829.75	\$494,638.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	16.00	AS	\$964.12	\$15,425.92
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	16.00	AS	\$655.08	\$10,481.28
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	16.00	EA	\$361.69	\$5,787.04



660-2-106	LOOP ASSEMBLY, F&I, TYPE F	16.00	AS	\$1,288.40	\$20,614.40
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	16.00	EA	\$247.50	\$3,960.00
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	2.00	AS	\$35,970.31	\$71,940.62
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	8.00	EA	\$251.14	\$2,009.12
Signalizations Component Total					\$684,812.08

LANDSCAPING COMPONENT

Landscaping Lump Sum Cost Total	\$188,223.81
Landscaping Component Total	\$188,223.81

Project Sequences Subtotal	\$6,885,913.76
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102-1	MAINTENANCE OF TRAFFIC	8.00		\$516,988.06
101-1	MOBILIZATION	10.00		\$697,933.88

Project Sequences Total	\$8,100,835.70
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Project Unknowns	0.00	%	\$0.00
Design/Build	0.00	%	\$0.00

Non-Bid Components:

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
999-25	INITIAL CONTINGENCY AMOUNT (DO NOT BID)	1.00	LS	\$76,772.73	\$76,772.73

Construction Project Non-Bid Subtotal	\$76,772.73
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Construction

Construction Project Sub Total	\$8,177,608.43
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Contingency (15%)	\$1,226,641.27
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Construction Project Grand Total	\$9,404,249.70
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Design and Construction Administration

Engineering Design, Survey, Post Design, Traffic Analysis	\$1,045,826.64
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Construction Administration (6%)	\$564,254.98
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Design and Construction Administration Sub Total	\$1,610,081.62
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PROJECT GRAND TOTAL(CONSTRUCTION + DESIGN + CONSTRUCTION ADMIN)	\$11,014,331.32
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