



Calvin, Giordano & Associates, Inc.

EXCEPTIONAL SOLUTIONS™

560 Village Boulevard · Suite 340 · West Palm Beach, FL 33409
Phone: 561.684.6161 · Fax: 561.684.6360

ENGINEER'S OPINION
OF PROBABLE COST
WORKSHEET

DATE
2/3/2017

PROJECT TITLE				CG&A PROJECT NO.	
MPO Grants - Barwick				16-8860	
Conceptual Cost Estimate					
LOCATION					
Barwick from West Atlantic Blvd to Lake Ida Road					
OWNER					
City of Delray Beach					
ESTIMATED BY LR/MM/ED			CHECKED BY		APPROVED BY PAF/TC/MD
ITEM					
NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE MAT. & LAB	ESTIMATED AMOUNT
	GENERAL ITEMS				
1	Mobilization (5%)	1	LS	\$365,693.34	\$365,693.34
2	Maintenance of Traffic (5%)	1	LS	\$365,693.34	\$365,693.34
3	As-Built Record Drawings	1	LS	\$2,000.00	\$2,000.00
4	NPDES Permit/Erosion Control (2.5%)	1	LS	\$182,846.67	\$182,846.67
5	Indemnification	1	LS	\$10.00	\$10.00
6	Project Identification Sign (1 Total)	1	LS	\$1,200.00	\$1,200.00
				SUBTOTAL	\$917,443.36
	DEMOLITION				
7	Clearing and Grubbing (5%)	1	LS	\$365,693.34	\$365,693.34
				SUBTOTAL	\$365,693.34
	ON-SITE ITEMS				
8	Regular Excavation	9,965	CY	\$11.01	\$109,712.61
9	Embankment	9,965	CY	\$16.56	\$165,017.33
10	Swale Grading and Sodding	0	SY	\$7.98	\$0.00
11	Mill Existing Asphalt Pavement (1" Min. Depth)	19,102	SY	\$12.32	\$235,339.38
12	Asphalt Level & Overbuild	53	TN	\$271.34	\$14,253.79
13	1" Asphaltic Concrete Type S-III (Widening + Resurfacing)	1,618	TN	\$157.60	\$255,002.40
14	1-1/2" Asphaltic Concrete Type S-III (Widening+Pathway)	0	TN	\$157.60	\$0.00
15	8" Limerock Base	0	SY	\$28.96	\$0.00
16	6" Limerock Base	7,093	SY	\$21.72	\$154,052.72
16	4" Limerock Curb Pad	1,999	SY	\$15.46	\$30,909.80
17	12" Stabilized Subgrade	7,093	SY	\$6.72	\$47,662.72
18	4" Stabilized Shoulder	3,884	SY	\$2.22	\$8,614.14
19	Type F Curb & Gutter	2,999	LF	\$33.47	\$100,376.53
20	Type D Curb	0	LF	\$29.47	\$0.00
21	Traffic Separator - 4 Foot Wide	0	LF	\$45.00	\$0.00
22	Permeable Concrete Pathways (6" Thick)	7,093	SY	\$77.12	\$546,986.45
23	Paver Driveways	10	SY	\$100.00	\$1,000.00
24	Concrete Driveways (6" Thick)	40	SY	\$77.12	\$3,084.80
				SUBTOTAL	\$1,672,012.68



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ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE MAT. & LAB	ESTIMATED AMOUNT		
UTILITIES ITEMS							
25	Utility Adjustments	1	LS	\$827,200.00	\$827,200.00		
				SUBTOTAL	\$827,200.00		
DRAINAGE ITEMS							
26	18" RCP	984	LF	\$108.33	\$106,596.72		
27	24" RCP	3,685	LF	\$130.00	\$479,050.00		
28	Inlets, Curb, Type P-9, (<10') or Inlets, Ditch Bottom, Type C	26	EA	\$8,450.00	\$219,700.00		
29	Manhole, Type P-8 (<10')	15	EA	\$6,500.00	\$97,500.00		
30	Canal Crossing	2	LS	\$100,000.00	\$200,000.00		
26	Miscellaneous Drainage Improvements	1	LS	\$551,500.00	\$551,500.00		
				SUBTOTAL	\$1,654,346.72		
SIGNING AND PAVEMENT MARKING							
27	SIGNING AND PAVEMENT MARKING	1	LS	\$167,300.00	\$167,300.00		
				SUBTOTAL	\$167,300.00		
LANDSCAPING AND IRRIGATION							
28	Landscape and Irrigation (Complete)	1	LS	\$802,793.00	\$802,793.00		
				SUBTOTAL	\$802,793.00		
ELECTRICAL ITEMS							
29	100 Watt X 2 LED Luminaire (double-head) and Pole	137	EA	\$9,610.34	\$1,316,616.58		
30	Pull Boxes	137	EA	\$125.00	\$17,125.00		
31	Conduit, F&I, 2" PVC	16,143	LF	\$14.30	\$230,844.90		
32	Conductors	45,740	LF	\$2.20	\$100,628.00		
				SUBTOTAL	\$1,665,214.48		
ALLOWANCES							
33	Professional Video Allowance	1	LS	\$25,000.00	\$25,000.00		
34	Unforeseen Conditions Allowance	1	LS	\$500,000.00	\$500,000.00		
				SUBTOTAL	\$525,000.00		
					GRAND SUBTOTAL		
					\$8,597,003.59		
					Contingency @10%		
					\$859,700.36		
					GRAND TOTAL		
					\$9,456,703.94		