



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
					11/15/2019
PROJECT TITLE				CG&A PROJECT NO.	
Artists Alley-NE 3rd Avenue - Delray Beach				13-6323.7	
100% Submittal					
LOCATION					
NE 3rd Avenue from NE 3rd Street to NE 4th Street (Lake Ida Road) and Artist's Alley from NE 3rd Street to NE 4th Street (Lake Ida Road)					
OWNER					
City of Delray Beach, Delray CRA					
ESTIMATED BY LR/MM/ED/CA/JC			CHECKED BY		PAF/TC/MD/DS
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE MAT. & LAB	ESTIMATED AMOUNT
	GENERAL ITEMS				
1.01	General Requirements	1	LS	\$5,000.00	\$5,000.00
1.02	Mobilization and Demobilization (5%)	1	LS	\$100,000.00	\$100,000.00
1.03	Testing and Surveying	1	LS	\$4,000.00	\$4,000.00
1.04	Maintenance of Traffic (5%)	1	LS	\$100,000.00	\$100,000.00
1.05	Prevention, Contol, and Abatement of Erosion and Water Pollution (2.5%)	1	LS	\$50,000.00	\$50,000.00
1.06	Permitting Allowance	1	LS	\$1,000.00	\$1,000.00
1.07	Record Drawings	1	LS	\$3,000.00	\$3,000.00
1.08	Trench Safety, Shoring and Security Fencing	1	LS	\$5,000.00	\$5,000.00
1.09	Project Identification Sign	1	LS	\$500.00	\$500.00
1.10	Audio/Video Pre-Construction Record	1	LS	\$1,000.00	\$1,000.00
		SUBTOTAL GENERAL ITEMS			\$269,500.00
	DEMOLITION				
2.01	Clearing and Grubbing (5%)	1	LS	\$100,000.00	\$100,000.00
2.02	Remove Existing Concrete Curbing (Varying Type)	867	LF	\$12.83	\$11,123.61
2.03	Remove Existing Concrete Sidewalk (Varying Types)	70	SY	\$19.00	\$1,330.00
2.04	Remove Existing Driveways (Varying Types)	62	SY	\$38.50	\$2,387.00
2.05	Remove Existing Pavement Section (Asphalt and Road Base)	3,409	SY	\$19.80	\$67,498.20
2.06	Remove Existing Pavers (Incl. Base Material)	166	SY	\$33.50	\$5,561.00
2.07	Remove Existing Wood Deck	28	SY	\$20.00	\$560.00
2.08	Remove Existing 2" Water Service	932	LF	\$15.00	\$13,980.00
2.09	Remove Existing 6" Sewer Lateral	160	LF	\$35.00	\$5,600.00
2.10	Remove Existing 8" Sewer Main	600	LF	\$50.00	\$30,000.00
2.11	Remove 42" Storm Pipe	40	LF	\$65.00	\$2,600.00
2.12	Tree Relocation (6 Trees)	1	LS	\$4,000.00	\$4,000.00
2.13	Tree Protection Fencing / Barricades	1	LS	\$2,500.00	\$2,500.00
2.14	Root Pruning	207	LF	\$15.00	\$3,105.00
2.15	Canopy Pruning	2	EA	\$150.00	\$300.00
		SUBTOTAL DEMOLITION			\$250,544.81
	ON-SITE ITEMS				
3.01	Regular Excavation	2,400	CY	\$11.01	\$26,424.00
3.02	Embankment	115	CY	\$16.56	\$1,904.40
3.03	Mill Existing Asphalt Pavement (1" Min. Depth)	1,766	SY	\$12.32	\$21,757.12
3.04	Asphalt Level & Overbuild (Type S-III)	45	TN	\$271.34	\$12,210.30
3.05	1" Asphaltic Concrete Type S-III (Widening + Resurfacing)	252	TN	\$157.60	\$39,715.20
3.06	1-1/2" Asphaltic Concrete Type S-III (Widening)	290	TN	\$157.60	\$45,704.00
3.07	Remove and Reset Existing Pavers	76	SY	\$93.50	\$7,106.00
3.08	Concrete Pavement, On-Street Parking (6" Thick)	495	SY	\$77.12	\$38,174.40
3.09	Concrete Driveway (6" Thick)	277	SY	\$77.12	\$21,362.24
3.10	Pavers, Architectural Roadway	156	SY	\$69.79	\$10,887.24
3.11	Pavers, Architectural Sidewalk	840	SY	\$80.31	\$67,460.40
3.12	4" Limerock Curb Pad	825	SY	\$15.46	\$12,754.50
3.13	8" Limerock Base	2,104	SY	\$28.96	\$60,931.84
3.14	12" Stabilized Subgrade	3,074	SY	\$6.72	\$20,657.28
3.15	Concrete Sidewalk (4" Thick)	80	SY	\$44.00	\$3,520.00
3.16	Type F Curb & Gutter	1,274	LF	\$33.47	\$42,640.78
3.17	Type D Curb	320	LF	\$25.26	\$8,083.20
3.18	Concrete Curb, Header	2,394	LF	\$35.28	\$84,460.32
3.19	Valley Gutter	1,025	LF	\$33.47	\$34,306.75



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ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE MAT. & LAB	ESTIMATED AMOUNT
3.20	Lot 3 Blk 89 - Knee Wall/Steps/Ramp/Railing/Conc. Landing	1	LS	\$3,817.00	\$3,817.00
3.21	Lot 6 Blk 89 - Conc.Walk/Landing	1	LS	\$1,800.00	\$1,800.00
3.22	Lot 7 Blk 89 - Knee Walls with Planters/Steps/Ramp/Railing/Conc. Landing	1	LS	\$9,251.00	\$9,251.00
3.24	Lot 10 Blk 89 - Knee Walls/Conc. Landing	1	LS	\$3,300.00	\$3,300.00
SUBTOTAL ON-SITE ITEMS					\$578,227.97
	UTILITIES ITEMS				
4.01	Adjust Sanitary Manhole to Grade	1	EA	\$455.19	\$455.19
4.02	Adjust Valve Box to Grade	1	EA	\$286.77	\$286.77
4.03	2" PE Water Service	370	LF	\$30.00	\$11,100.00
4.04	6" DIP Water Main	35	LF	\$62.45	\$2,185.75
4.05	8" DIP Water Main	690	LF	\$180.00	\$124,200.00
4.06	6" DIP Sanitary Sewer	42	LF	\$62.00	\$2,604.00
4.07	8" DIP Sanitary Sewer	750	LF	\$180.00	\$135,000.00
4.08	Sanitary Sewer Manhole	3	EA	\$5,000.00	\$15,000.00
4.09	Connect Existing Sanitary Lateral	26	EA	\$50.00	\$1,300.00
4.10	6" DIP Elbow	1	EA	\$400.00	\$400.00
4.11	8" DIP Elbow	4	EA	\$437.65	\$1,750.60
4.12	8" x 6" DIP Tee	2	EA	\$1,167.87	\$2,335.74
4.13	F&I Meter Box and Connect to Existing Service	23	EA	\$629.83	\$14,486.09
4.14	2" Backflow Assembly and Connect to Existing Service	1	EA	\$1,730.00	\$1,730.00
4.15	6" Gate Valve	3	EA	\$1,296.38	\$3,889.14
4.16	8" Gate Valve	4	EA	\$2,855.93	\$11,423.72
4.17	16"x 8" Tapping Saddle	1	EA	\$8,000.00	\$8,000.00
4.18	Fire Hydrant Assembly	1	EA	\$3,224.35	\$3,224.35
4.19	Sample Point (Including Bacteriological Testing)	2	EA	\$600.00	\$1,200.00
SUBTOTAL UTILITIES ITEMS					\$340,571.35
	DRAINAGE ITEMS				
5.01	Curb Inlet (Type 9)	2	EA	\$4,500.00	\$9,000.00
5.02	Curb Inlet (Type P-4)	1	EA	\$5,500.00	\$5,500.00
5.03	Ditch Bottom Inleet (Type C)	4	EA	\$4,048.77	\$16,195.08
5.04	Ditch Bottom Inlet (Type C Modify)	2	EA	\$3,252.99	\$6,505.98
5.05	Inlets, Ditch Bottom, Type E, Modify	1	EA	\$5,960.49	\$5,960.49
5.06	Manhole (J-7)	1	EA	\$6,000.00	\$6,000.00
5.07	18" RCP	67	LF	\$108.33	\$7,258.11
5.08	42" RCP	40	LF	\$160.00	\$6,400.00
SUBTOTAL DRAINAGE ITEMS					\$62,819.66
	SIGNING AND PAVEMENT MARKING				
6.01	Single Post Sign, (Remove)	8	AS	\$ 125.00	\$ 1,000.00
6.02	Single Post Sign, F & I	12	AS	\$ 417.69	\$ 5,012.28
6.03	Retro-reflective Pavement Markers	38	EA	\$ 5.00	\$ 190.00
6.04	Thermoplastic 6" Solid White on 9" Solid Black Contrast Markings	0.083	NM	\$ 20,000.00	\$ 1,660.00
6.05	Thermoplastic White Solid 8"	0.007	NM	\$ 6,713.41	\$ 46.99
6.06	Thermoplastic White Solid 12"	84	LF	\$ 2.20	\$ 184.80
6.07	Thermoplastic White Solid 18"	11	LF	\$ 2.87	\$ 31.57
6.08	Thermoplastic White Solid 24"	85	LF	\$ 5.03	\$ 427.55
6.09	Thermoplastic Yellow Solid 6"	0.102	NM	\$ 7,000.00	\$ 714.00
6.10	Preformed Tape 6" Solid White on 9" Solid Black Contrast Markings	0.083	NM	\$ 20,000.00	\$ 1,660.00
6.11	Preformed Tape White Solid 24"	85	LF	\$ 25.00	\$ 2,125.00
6.12	Preformed Tape Yellow Solid 6"	0.102	NM	\$ 34,000.00	\$ 3,468.00
SUBTOTAL SIGNING AND PAVEMENT MARKING					\$ 16,520.19



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ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE MAT. & LAB	ESTIMATED AMOUNT
	LANDSCAPE PLANT MATERIAL				
7.01	(HLB) Bottle Palm, FG, DBL, 12' HT, 6' CT, FL Fancy	4	EA	\$540.00	\$2,160.00
7.02	(PSW) Wild Date Palm, FG, SGL, 28' HT, 12" DBH, 10' CT, FL Fancy	8	EA	\$ 4,375.00	\$ 35,000.00
7.03	(QVL) Southern Live Oak, FG, 18' X 8', 4" DBH, FL Fancy	2	EA	\$ 1,375.00	\$ 2,750.00
7.04	(ABO) Orange Bromeliad, 7G, Full Pot	4	EA	\$ 50.00	\$ 200.00
7.05	(EFL) Spanish Stopper, 25 G, 8'-10' X 4', FL No. 1	8	EA	\$ 250.00	\$ 2,000.00
7.06	(FGI) Green Island Ficus, 1 G, 12" X 12", Full	40	EA	\$ 4.38	\$ 175.00
7.07	(IMR) Maui Red Ixora, 1 G, 12" X 12", Full	80	EA	\$ 6.25	\$ 500.00
7.08	(JIC) Compact Spicy Jatropa, 30 G, Standard, 8' HT, FL Fancy	9	EA	\$ 300.00	\$ 2,700.00
7.09	(ABR) Raspberry Bromeliad, 7 G, 5-7 PPP, Specimen	65	EA	\$ 50.00	\$ 3,250.00
7.10	(CHI) Red Tip Cocoplum, 7 G, 36" X 24", Full to Ground	30	EA	\$ 45.00	\$ 1,350.00
7.11	(CBY) Curlyboy Croton, 3 G, 24" X 24", Full to Ground	118	EA	\$ 10.00	\$ 1,180.00
7.12	(FMI) Green Island Ficus, 3 G, 18" X 18", Full	127	EA	\$ 10.00	\$ 1,270.00
7.13	(FMG) Green Island Ficus, 7 G, 24" X 24", Full	209	EA	\$ 40.00	\$ 8,360.00
7.14	(JWV) Wax Jasmine, 3 G, 24" X 24", Full	67	EA	\$ 11.25	\$ 753.75
7.15	(IVY) Yaupon Holly, 3 G, 24" X 24", Full to base	5	EA	\$ 11.25	\$ 56.25
7.16	(NEF) Super Fireball Bromeliad, 1 G, 12" X 12", Full Pot	24	EA	\$ 13.75	\$ 330.00
7.17	(PNG) Bahia Grass Sod	1306	SF	\$ 0.36	\$ 470.16
7.18	(SRA) Creeping Sedum Angelina, 6" Pot, Full	147	EA	\$ 2.50	\$ 367.50
7.19	(SSF) St. Augustine Floratam Sod	1204	SF	\$ 0.38	\$ 457.52
SUBTOTAL LANDSCAPE PLANT MATERIAL					\$63,330.18
	LANDSCAPE MISC. ITEMS				
7.20	Planting Area Excavation	475	CY	\$15.00	\$7,125.00
7.21	Backfill Material 60/40 Planting Soil	617	CY	\$50.00	\$30,850.00
7.22	FloriMulch (3" Depth)	24	CY	\$65.00	\$1,560.00
7.23	Root barrier (36" NDS)	142	LF	\$16.00	\$2,272.00
7.24	Root Barrier (Pipe wrap)	46	LF	\$24.00	\$1,104.00
7.25	Temporary Watering (First 6 months - Establishment)	1	LS	\$2,200.00	\$2,200.00
7.26	Temporary Watering (6 Months to Year - Warranty)	1	LS	\$1,800.00	\$1,800.00
7.27	Modifications to Existing Irrigation Systems	1	LS	\$3,200.00	\$3,200.00
7.28	Irrigation System	1	LS	\$5,000.00	\$5,000.00
7.29	Silva Cell System	1	LS	\$6,750.00	\$6,750.00
SUBTOTAL LANDSCAPE MISCELLANEOUS ITEMS.					\$61,861.00
	ELECTRICAL SERVICES & LIGHTING SYSTEM				
8.01	F&I New Poles and Luminaires	1	LS	\$86,493.06	\$86,493.06
8.02	F&I New Pull Boxes	1	LS	\$1,125.00	\$1,125.00
SUBTOTAL ELECTRICAL SERVICES & LIGHING SYSTEM					\$87,618.06
TOTAL ENGINEERS'S OPINION OF PROBABLE CONSTRUCTION COST =					\$1,730,993.22
TOTAL ENGINEER'S OPINION OF PROBABLE COST (EXPECTED)				-10%	\$1,557,893.90
ACCURACY RANGE FOR THE ESTIMATE IS -10% to 15%				+15%	\$1,990,642.21



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OWNER					
City of Delray Beach, Delray CRA					
ESTIMATED BY LR/MM/ED/CA/JC			CHECKED BY		APPROVED BY PAF/TC/MD/DS
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE MAT. & LAB	ESTIMATED AMOUNT

BID ALTERNATE - 1

	DEMOLITION				
A1.01	Remove Existing Pavers (Incl. Base Material)	193	SY	\$33.50	\$6,465.50
SUBTOTAL DEMOLITION					\$6,465.50
	ON-SITE ITEMS				
A1.02	Concrete Pavement, On-Street Parking (6" Thick)	3	SY	\$77.12	\$231.36
A1.03	Pavers, Architectural Roadway	174	SY	\$69.79	\$12,143.46
A1.04	4" Limerock Curb Pad	16	SY	\$15.46	\$247.36
A1.05	8" Limerock Base	174	SY	\$28.96	\$5,035.82
A1.06	12" Stabilized Subgrade	190	SY	\$6.72	\$1,296.96
A1.07	Concrete Curb, Header	148	LF	\$35.28	\$5,221.44
SUBTOTAL ON-SITE ITEMS					\$24,176.40
TOTAL ENGINEERS'S OPINION OF PROBABLE CONSTRUCTION COST (Alt. 1) =					\$30,641.90
TOTAL ENGINEER'S OPINION OF PROBABLE COST (EXPECTED)				-10%	\$27,577.71
ACCURACY RANGE FOR THE ESTIMATE IS -10% to 15%				+15%	\$35,238.19

BID ALTERNATE - 2

	DEMOLITION				
A2.01	Remove Existing Concrete Curbing (Varying Type)	35	LF	\$12.83	\$449.05
A2.02	Remove Existing Pavement Section (Asphalt and Road Base)	288	SY	\$19.80	\$5,702.40
A2.03	Remove Existing Pavers (Incl. Base Material)	6	SY	\$33.50	\$201.00
SUBTOTAL DEMOLITION					\$6,352.45
	ON-SITE ITEMS				
A2.04	Concrete Pavement, On-Street Parking (6" Thick)	4	SY	\$77.12	\$308.48
A2.05	Pavers, Architectural Roadway	282	SY	\$69.79	\$19,680.78
A2.06	4" Limerock Curb Pad	12	SY	\$15.46	\$185.52
A2.07	8" Limerock Base	282	SY	\$28.96	\$8,166.72
A2.08	12" Stabilized Subgrade	294	SY	\$6.72	\$1,975.68
A2.09	Concrete Curb, Header	108	LF	\$35.28	\$3,810.24
SUBTOTAL ON-SITE ITEMS					\$34,127.42
TOTAL ENGINEERS'S OPINION OF PROBABLE CONSTRUCTION COST (Alt. 2) =					\$40,479.87
TOTAL ENGINEER'S OPINION OF PROBABLE COST (EXPECTED)				-10%	\$36,431.88
ACCURACY RANGE FOR THE ESTIMATE IS -10% to 15%				+15%	\$46,551.85