



4611-4 U.S. Highway 17
Orange Park, Florida 32003
Office: (904) 278-0030
Fax: (904) 278-0840

September 24, 2001

Ms. Betty Jordan
Jordan & Associates
4611-3 U.S. Highway 17
Orange Park, Florida 32003

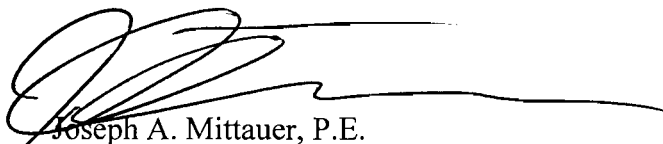
RE: Certification of Minimum Required Infrastructure
CDBG-ED The Quarters at American Beach
Nassau County, Florida
Mittauer & Associates, Inc. Project No. 0107-01-1

Dear Ms. Jordan:

This letter is to confirm that the proposed route, scope, cost and size of the proposed infrastructure improvements to serve the Quarters at American Beach are the minimum required facilities. These improvements include the water main extension and looping for potable water and fire protection; the gravity sewer, pump station and force main for the sewer system; as well as the street and drainage improvements.

Please feel free to call should you have any questions.

Sincerely yours,
Mittauer & Associates, Inc.



Joseph A. Mittauer, P.E.
President

JAM/bb

MITTAUER & ASSOCIATES, INC.	Subject: FY02 CDBG Cost Estimate	
CONSULTING ENGINEERS	Project: CDBG-ED The Quarters at American Beach	
4611-4 U.S. Hwy. 17	Client: Nassau County	
Orange Park, FL 32003	Job: 0107-01-1	Sht.: 1
Tel: (904) 278-0030	Date: 09-20-01	By: JAM
Fax: (904) 278-0840		

CONSTRUCTION COST ESTIMATE

BASIS FOR ESTIMATE: PRE-DESIGN STUDY, PRELIMINARY DESIGN, FINAL DESIGN

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Estimated Cost
1	Mobilization - Water System	1	LS	\$14,700.00	\$14,700
2	PVC Water Mains				
a	8-inch	1,700	LF	\$12.00	\$20,400
b	10-inch	3,100	LF	\$15.00	\$46,500
3	Ductile Iron Water Mains				
a	8-inch	20	LF	\$25.00	\$500
b	10-inch	120	LF	\$30.00	\$3,600
4	Ductile Iron Fittings-Mortar Lined	6,000	lbs	\$2.50	\$15,000
5	Gate Valve and Box				
a	6-inch	8	Ea	\$600.00	\$4,800
b	8-inch	5	Ea	\$800.00	\$4,000
c	10-inch	7	Ea	\$1,000.00	\$7,000
6	Connection to Existing Main (wet tap)				
a	8-inch	1	Ea	\$4,000.00	\$4,000
b	10-inch	1	Ea	\$4,500.00	\$4,500
7	Directional Drill Crossing (100')				
a	8-inch (10" HDPE)	2	LS	\$8,000.00	\$16,000
b	10-inch (12" HDPE)	1	LS	\$9,600.00	\$9,600
8	Water Service				
a	1 1/2-inch	1	LS	\$1,500.00	\$1,500
b	2-inch	1	LS	\$2,000.00	\$2,000
e	6-inch-fire	1	LS	\$8,500.00	\$8,500
9	Fire Hydrant Assembly	2	LS	\$2,500.00	\$5,000
10	Removal and Replacement of Unsuitable Soils	300	LF	\$10.00	\$3,000
11	Roadway or Pavement Removal and Replacement	100	LF	\$20.00	\$2,000
12	Concrete Encasement and Specials	40	CY	\$200.00	\$8,000
13	Grassing				
a	Bahia Sod	4,000	LF	\$2.50	\$10,000
b	St. Augustine Sod	800	LF	\$3.00	\$2,400
14	Audiovisual Documentation	4,800	LF	\$0.20	\$960
TOTAL ESTIMATED CONSTRUCTION COST- WATER SYSTEM					\$194,000

MITTAUER & ASSOCIATES, INC.
CONSULTING ENGINEERS

4611-4 U.S. Hwy. 17
 Orange Park, FL 32003

Tel: (904) 278-0030
 Fax: (904) 278-0840

Subject: FY02 CDBG Cost Estimate
 Project: CDBG-ED The Quarters at American Beach
 Client: Nassau County
 Job: 0107-01-1 Sht.: 2
 Date: 09-20-01 By: JAM

CONSTRUCTION COST ESTIMATE

BASIS FOR ESTIMATE: X PRE-DESIGN STUDY, _____ PRELIMINARY DESIGN, _____ FINAL DESIGN

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Estimated Cost
1	Mobilization - Wastewater System	1	LS	\$15,800.00	\$15,800
2	6" PVC Gravity Sewer (all depths)	60	LF	\$20.00	\$1,200
3	8" PVC Gravity Sewer, 12-14' Cut	1,250	LF	\$50.00	\$62,500
3	8" D.I. Gravity Sewer, 12-14' Cut	50	LF	\$60.00	\$3,000
4	Trench Safety Act Compliance	1,300	LF	\$1.00	\$1,300
5	4' Dia. Sanitary Manhole, 12-14' Cut	5	LF	\$3,000.00	\$15,000
6	Drop Manhole, added cost at all depths	1	LS	\$1,200.00	\$1,200
7	PVC Force Main, 6-inch	2,200	LF	\$10.00	\$22,000
8	D.I. Force Main, 6-inch	1,000	LF	\$20.00	\$20,000
9	Ductile Iron Fittings-Poly Lined	1,000	lbs	\$3.00	\$3,000
10	Gate Valve and Box, 6-inch	2	Ea	\$600.00	\$1,200
11	Sanitary Pump Station	1	LS	\$45,000.00	\$45,000
11	Connection to Existing Force Main (wet tap), 6-inch	1	Ea	\$3,000.00	\$3,000
12	Directional Drill Crossing (100'), 6-inch (8" HDPE)	1	LS	\$6,400.00	\$6,400
13	Sewer Service, Single Commercial 6" Service	2	LS	\$750.00	\$1,500
14	Removal and Replacement of Unsuitable Soils	300	LF	\$20.00	\$6,000
15	Roadway or Pavement Removal and Replacement				\$0
	a Stabilized, Shell or Gravel Roadway Restoration	250	LF	\$18.00	\$4,500
	b Asphalt Pavement	1,300	LF	\$35.00	\$45,500
	c Concrete Pavement	400	LF	\$40.00	\$16,000
	d 1" Overlay Entire Intersection	2	LS	\$2,500.00	\$5,000
16	Concrete Encasement and Specials	40	CY	\$200.00	\$8,000
17	Grassing, Bahia Sod	3,450	LF	\$5.00	\$17,250
18	Audiovisual Documentation	3,450	LF	\$0.20	\$690
	TOTAL ESTIMATED CONSTRUCTION COST- WASTEWATER SYSTEM				\$305,000

MITTAUER & ASSOCIATES, INC.

Subject: FY02 CDBG Cost Estimate

CONSULTING ENGINEERS

Project: CDBG-ED The Quarters at American Beach

4611-4 U.S. Hwy. 17

Client: Nassau County

Orange Park, FL 32003

Job: 0107-01-1

Sht.: 4

Tel: (904) 278-0030

Date: 09-20-01

By: JAM

Fax: (904) 278-0840

CONSTRUCTION COST ESTIMATE

BASIS FOR ESTIMATE: X PRE-DESIGN STUDY, _____ PRELIMINARY DESIGN, _____ FINAL DESIGN

TOTAL ESTIMATED CONSTRUCTION COST- WATER SYSTEM	\$194,000
TOTAL ESTIMATED CONSTRUCTION COST- WASTEWATER SYSTEM	\$305,000
TOTAL ESTIMATED CONSTRUCTION COST- STREETS & DRAINAGE	\$110,000
TOTAL COMBINED CONSTRUCTION COST	\$609,000

	<u>PERCENT</u>	<u>AMOUNT</u>
TOTAL CONSTRUCTION COST-Table I & IA	49.9%	\$304,000
TOTAL CONSTRUCTION COST-Table II & IIA	50.1%	\$305,000
TOTAL COMBINED CONSTRUCTION COST	100.0%	\$609,000

	<u>Calculated</u>	<u>Application Amt.</u>
Engineering Services		
Preliminary Engineering Services	\$3,045	\$2,500
Basic Services Table I	\$25,481	\$24,000
Basic Services Table II	\$19,770	\$16,500
Res. Insp. Table IA	\$11,497	\$7,500
Res. Insp. Table IIA	\$8,485	\$5,000
Prepare Permit Applications	\$10,000	\$10,000
Topographic Surveying	\$12,000	\$12,000
Jurisdictional Survey	\$0	\$0
Geotechnical Work	\$2,500	\$2,500
TOTAL ENGINEERING SERVICES	\$92,779	\$80,000

TOTAL PROJECT BUDGET SUMMARY

Construction- Water	\$194,000
Construction- Wastewater	\$305,000
Construction- Streets & Drainage	\$110,000
Site Acquisition	\$1,000
Engineering Services	\$80,000
Grant Administration	\$60,000
TOTAL BUDGET	\$750,000