

CITY OF KEY WEST  
TECHNICAL SUPPORT CONSULTANTS

F.M. No.: 250548-3-56-01

TASK ORDER REQUEST

Proposed 24" Force Mains on N. Roosevelt Blvd (Addendum).

08/16/2010



**1 SCOPE OF WORK**

The purpose of this scope of services is to provide consulting engineering services to the City of Key West for design, permits, preparation of technical special provisions and post design services activities related with the installation of a 24" Force Mains along N. Roosevelt Blvd., from Kennedy Dr to 14<sup>th</sup> St.

**2 SCHEDULE**

Design services are to be completed on or before June 15, 2010.

**3 ESTIMATE OF MANHOURS**

Details attached Exhibit A

**4 PRELIMINARY CONSTRUCTION COSTS**

NA

**5 DELIVERABLES**

Plans, Construction Costs and Technical Special Provisions for the installation of the above mentioned force mains.

**6 EXCLUSIONS**

Permit Fees

**7 METHOD OF COMPENSATION**

The services identified shall be compensated in the form of a **LUMP SUM** of \$ **22,009.22** Should additional work become necessary in excess of the amount authorized, justification shall be provided and a separate letter of authorization will be required. Compensation will be based on progress submittals of construction documents.

**8 OTHER**

N/A


9

**TASK MANAGERS ACCEPTANCE**

**PREPARED FOR A&P CONSULTING TRANSPORTATION ENGINEERS BY:**

Arnelio Alfonso Jr., P.E.  
Name (typed or printed)

Project Manager  
Title

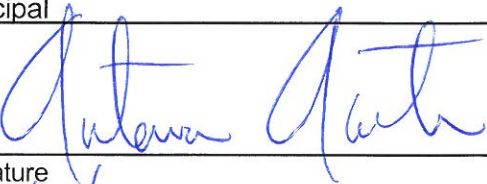
  
Signature

8/16/10  
Date

**REVIEWED FOR A&P CONSULTING TRANSPORTATION ENGINEERS BY:**

Carlos M. Gil-Mera, P.E. *for*  
Name (typed or printed)

Principal  
Title

  
Signature

8/16/10  
Date

10

**SUBMITTAL/APPROVAL**

**APPROVED FOR CITY OF KEY WEST BY:**

\_\_\_\_\_  
Name (typed or printed)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**EXHIBIT A**  
**SUMMARY OF FEES**



**ESTIMATE OF WORK EFFORT FOR SELECTION**  
**FORCE MAIN PLANS**

CONSULTANT NAME: <u>A&amp;P Consulting Transportation Engineers</u>	PROJECT NAME: <u>SR 5 / North Roosevelt Blvd.</u>
WPI No.: <u>N/A</u>	<u>From Kennedy Dr.</u>
FDOT Job No.: <u>250548-3-56-01</u>	<u>To 14 ST</u>
FAP No.: <u>N/A</u>	DATE: <u>8/16/2010</u>

ACTIVITY DESCRIPTION	SUB-ACTIVITY	STAFF HOURS		CADD* HOURS		REMARKS
		FROM	TO	FROM	TO	
A. FORCE MAIN PLANS PACKAGE	1. Design Analysis	55				
	2. Construction Plans	82				
	3. Utilities	43				
	4. Permits					
	5. Post Design Services	16				
<b>TOTAL</b>		196				
<b>STAFF DISTRIBUTION</b>	<b>(%)</b>	<b>REMARKS</b>				
CHIEF ENGINEER	5					
PROJECT MANAGER	20					
PROJECT ENGINEER	20					
ENGINEER	20					
ENGINEER TECHNICIAN	30					
CLERICAL	5					
<b>TOTAL</b>	<b>100</b>					



FINANCIAL PROJECT No.: 250548-3-56-01

**STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
ESTIMATE OF WORK EFFORT AND FEE**



CONSULTANT: A&P CONSULTING TRANSPORTATION ENGINEERS CORP.

WPI NO.: N/A

DESCRIPTION: SR 5 / North Roosevelt Blvd.

CONST. YR.: 2009-2010

COUNTY: MIAMI-DADE

From Kennedy Dr.

To 14 ST

CLASSIFICATION:	W O R K %	MANHOURS							TOTAL WORK EFFORT	AVERAGE HOURLY RATE	ESIMATED COST
		WATER MAIN PLANS									
CHIEF ENGINEER	5	10							10	\$64.87	\$648.70
PROJECT MANAGER	20	39							39	\$54.13	\$2,111.07
PROJECT ENGINEER	20	39							39	\$45.68	\$1,781.52
ENGINEER	20	39							39	\$29.90	\$1,166.10
ENGINEER TECHNICIAN	30	59							59	\$25.99	\$1,533.41
CLERICAL	5	10							10	\$20.00	\$200.00
<b>TOTALS</b>	<b>100</b>	<b>196</b>							<b>196</b>	<b>\$37.96</b>	<b>\$7,440.80</b>

TASK TOTALS FROM TASK LIST SHEETS

DATE OF ESTIMATE: \_\_\_\_\_

8/16/10

If revised estimate, give reasons for revisions: \_\_\_\_\_

ESTIMATOR & TITLE: \_\_\_\_\_

Arnelio Alfonso, P.E., Senior Project Manager

**TOTAL CONTRACT FEE COMPUTATIONS**

(a) Total Unloaded Salary	-----	\$7,440.80
(b) 162.13 % Total Overhead <sup>(1)</sup>	-----	\$12,063.77
(c) 27.0 % Operating Margin <sup>(2)</sup>	-----	\$2,009.02
(d) 0.131 % FCCM <sup>(3)</sup>	-----	\$9.75
(e) 6.53 % Direct Expenses <sup>(4)</sup>	-----	\$485.88

**TOTAL CONTRACT AMOUNT (LUMP SUM)**

**\$22,009.22**

Notes:

- (1) Total Overhead (General) = % \* Unloaded Salary
- (2) Operating Margin = % \* Unloaded Salary
- (3) Facilities Capital Cost of Money (FCC) = % \* Unloaded Salary
- (4) Direct Reimbursables (Out-of-Pocket) = % of Unloaded Salary

**SR 5 / North Roosevelt Blvd.  
FINANCIAL PROJECT No.: 250548-3-56-01  
Force Main Plans**

ACTIVITY: **A. (WATER MAIN PLANS)**

SUBACTIVITY: **1. (Design Analysis)**

SUBACTIVITY	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
1. Pipe Line Alignment	L.S.	1	12		12		
2. Structural Analysis	L.S.	1					
3. Canal Crossing	L.S.	1					
4. Field Survey & Service Location	L.S.	1	12		12		
5. Contract File (set-up and maintenance)	L.S.	1					
6. Computation Book and Quantities	L.S.	1					
7. C.E.S. / Summary of Pay Items	L.S.	1	4		4		
8. Special Provisions / Specifications	L.S.	1					
9. Prepare Construction Cost Estimate	L.S.	1	4		4		
10. Traffic Control Analysis	L.S.	1	16		16		
11. Design Coordination Meetings	L.S.	1	4		4		
<b>SUBACTIVITY SUBTOTAL</b>					52		
12. Quality Assurance / Quality Control	5%				3		
13. Attend FDOT Field Reviews Meeting	EA	1					
<b>SUBACTIVITY TOTAL</b>					55		

**SR 5 / North Roosevelt Blvd.  
FINANCIAL PROJECT No.: 250548-3-56-01  
Force Main Plans**

ACTIVITY: **A. (WATER MAIN PLANS)**

SUBACTIVITY: **2. (Construction Plans)**

SUBACTIVITY	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
1. Key Sheet	Sheet	1		1			
2. Summary of Pay Items	Sheet	1	2	1	2		
3. General Notes	Sheet	1		1			
4. Tabulation of Quantities and Pay Item Notes	Sheet	1		1			
5. Proposed General Plan of Force Main	Sheet	1		1			
6. Proposed Plan/Profile Sheets	Sheet	2	18	2	36		
7. Laterals Plan/Profile Sheets	Sheets	1	12	8	12		
8. Canal Crossing Details	Sheet	1		1			
9. Structural Plans and Details	Sheet	1		1			
10. Structural Details	Sheet						
11. Notes & Details	Sheet	1		1			
12. Pavement and Base Restoration/ General Notes and Details	Sheet	1		1			
13. Core Boring Reports	Sheet	1		1			
14. Traffic Control Notes	Sheet	1		1			
15. Traffic Control Plan	Sheet	2	12	2	24		Based on 2 phases
16. Phase Review Meetings	LS	1	4		4		
<b>SUBACTIVITY SUBTOTAL</b>					78		
17. Quality Assurance / Quality Control	5%				4		
<b>SUBACTIVITY TOTAL</b>				<b>23</b>	<b>82</b>		

SR 5 / North Roosevelt Blvd.  
 FINANCIAL PROJECT No.: 250548-3-56-01  
Force Main Plans

ACTIVITY: A. (WATER MAIN PLANS)

SUBACTIVITY: 3. (Utilities)

SUBACTIVITY	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
1. Initial Contact	L.S.	1	8		8		
2. Transfer Existing Utilities to Plan/ Profile	EA	1	12		12		
3. Coordination with Utility Companies	L.S.	1	2		2		
4. Soft Digs	L.S.	1	4		4		
SUBACTIVITY SUBTOTAL					26		
5. Quality Control	5%				1		
6. Utility Meetings	EA	8	2		16		
SUBACTIVITY TOTAL					43		



SR 5 / North Roosevelt Blvd.  
 FINANCIAL PROJECT No.: 250548-3-56-01  
Force Main Plans

ACTIVITY: A. (WATER MAIN PLANS)

SUBACTIVITY: 4. (Permits & JPA Documents)

SUBACTIVITY	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
1. Prepare Permit Applications	L.S.	1					
2. Coordination and RFI with Permitting Agencies	L.S.	1					
3. Permit Fees	L.S.						
4. JPA Documents for Design and Constrcuton	L.S.	1					
<b>SUBACTIVITY TOTAL</b>							

