

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2007	2008	2009	2010	2011
Capital Expenditures	<u>\$184,507</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
Operating Costs	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
External Revenues	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
Program Income (County)	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
In-Kind Match (County)	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
NET FISCAL IMPACT	<u>\$184,507</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>

ADDITIONAL FTE POSITIONS (Cumulative) _____

Is Item Included in Current Budget? Yes X No _____
 Budget Acct No.: Fund 3502 Dept. 361 Unit 0967 Object 6505.
 Program

B. Recommended Sources of Funds/Summary of Fiscal Impact:

Road Impact Fee Fund - Zone 2
 45th St/Jog Rd to Haverhill

Authorization - Basic Services	\$ 89,421.49
- Reimbursables	\$ 33,304.60
- Optional Services	\$ 4,330.48
Consultant Authorization	\$127,056.57
Contingency	\$ 6,400.43
Staff Costs-Roadway	\$ 25,500.00
-ROW	\$ 6,400.00
-Eng Services	\$ 6,400.00
-Traffic	\$ 12,750.00
Fiscal Impact	<u>\$184,507.00</u>

C. Departmental Fiscal Review: R.D. Ward 8/7/07

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Dev. and Control Comments:

John Smith 8-20-07
 OFMB
 (NO) CN 8/17/07

Ann J. [Signature] 8/21/07
 Contract Dev. and Control
 This item complies with current County policies.

B. Approved as to Form and Legal Sufficiency:

Paul F. [Signature] 8/22/07
 Assistant County Attorney

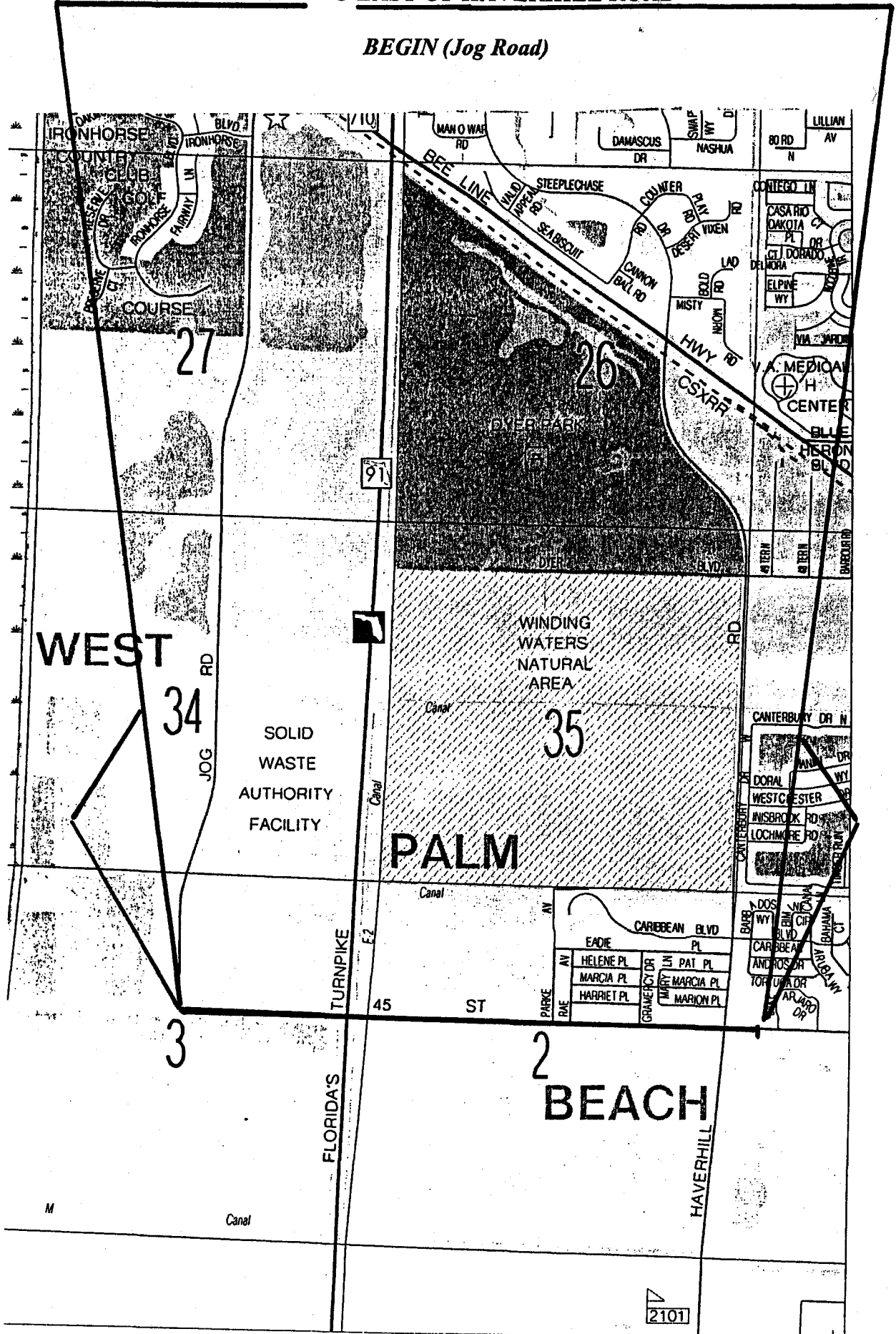
C. Other Department Review:

 Department Director

This summary is not to be used as a basis for payment.

ATTACHMENT 1

45TH STREET
JOG ROAD TO EAST OF HAVERHILL ROAD



END (East of Haverhill Road)

LOCATION MAP

ATTACHMENT 2

**SUPPLEMENTAL AGREEMENT BETWEEN
PALM BEACH COUNTY
AND
METRIC ENGINEERING, INC.
FOR PROFESSIONAL ENGINEERING SERVICES ON
45TH STREET – JOG ROAD TO EAST OF HAVERHILL ROAD
PROJECT NO.: 2003512
PALM BEACH COUNTY, FLORIDA**

THIS SUPPLEMENTAL AGREEMENT No. 4, made and entered into this day of _____ by and between Palm Beach County, hereinafter **COUNTY**, and, Metric Engineering, Inc., a Florida Corporation with an address of 2081 Vista Parkway, Suite 310, West Palm Beach, Florida 33411, hereinafter **CONSULTANT**.

WITNESSETH

WHEREAS, the **COUNTY** and **CONSULTANT** entered into a Project Agreement (R2003-1492) on September 23, 2003, to provide professional engineering services for 45th Street – Jog Road to east of Haverhill Road, Palm Beach County, Florida (hereinafter **PROJECT**); and.

WHEREAS, the **COUNTY** now desires for the **CONSULTANT** to provide the engineering services necessary to revise the plan design and construction bid documents for the **PROJECT**; and

**RE: 45th Street – Jog Road to east of Haverhill Road
Project No. 2003512**

WHEREAS, the following fee has been negotiated and found to be reasonable and just compensation for these professional services to be performed by the **CONSULTANT**:

Basic Services in a lump sum fee of \$89,421.49;

Reimbursable Expenses capped at \$33,304.60;

Optional Services capped at \$4,330.48;

Totaling \$127,056.57

NOW, THEREFORE, THIS INDENTURE WITNESSETH: That for and in consideration of the mutual benefits to flow from each to the other, the parties hereto agree as follows:

1. The **CONSULTANT** agrees to provide professional services as described in Exhibit "A" of the Agreement known as "SCOPE OF WORK & FEE".
2. The **CONSULTANT** agrees to "CERTIFICATION" statements as described in Exhibit "B" of the Agreement.
3. The **CONSULTANT** agrees to Small Business Enterprise (SBE) Participation, described in Exhibit "C" of the Agreement.
4. The **CONSULTANT** provides Letters of Intent to perform as an SBE and certification letters (if applicable), as described in Exhibit "D" of the Agreement.
5. The **COUNTY** agrees to pay the **CONSULTANT** a fee up to, but not to exceed, One Hundred Twenty Seven Thousand Fifty-Six Dollars and 57/100 cents (\$127,056.57).
6. The **CONSULTANT** agrees to indemnify, defend and hold harmless the **COUNTY** against all claims that may arise as a result of negligence, wrongdoing, misconduct or want of care by the **CONSULTANT**.

Except as hereby amended, changed or modified, all other terms and conditions of the original Agreement dated September 23, 2003 (R2003-1492), and;

Supplements and Amendments thereto, shall remain in full force and effect.

**RE: 45th Street – Jog Road to east of Haverhill Road
Project No. 2003512**

of the day and year first above written.

OWNER:

**Palm Beach County, Florida, a
Political Subdivision of the
State of Florida**

CONSULTANT:

**Metric Engineering, Inc.
a Florida Corporation**

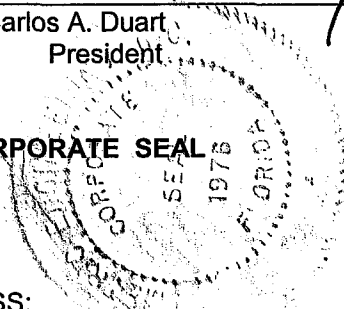
BOARD OF COUNTY COMMISSIONERS

BY: _____
Addie L. Green, Chairperson

BY: *Carlos A. Duarte*
Carlos A. Duarte
President

ATTEST:
Sharon R. Bock, Clerk
Circuit Court

CORPORATE SEAL



BY: _____
Deputy Clerk

WITNESS:

BY: *Marilyn Perez*

SEAL

Marilyn Perez
(Printed Name)

APPROVED AS TO TERMS
AND CONDITIONS:

BY: *Donna A. Ferrand*
Department Head

BY: *Katrina Kerr*

APPROVED AS TO FORM & LEGAL
SUFFICIENCY:

KATRINA KERR
(Printed Name)

County Attorney

EXHIBIT "A"

OKAY
Bachel



WEST PALM BEACH OFFICE
2081 VISTA PARKWAY - SUITE 310
WEST PALM BEACH, FL 33411
PHONE: (561) 640-1306
FAX: (561) 640-1312

SCOPE OF SERVICES

**45th STREET
FROM
JOG ROAD
TO
HAVERHILL ROAD**

**PALM BEACH COUNTY
PROJECT NO. 2003512**

SUPPLEMENTAL AGREEMENT NO. 4

DESIGN REVISIONS

May 29, 2007

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project:
County:
FPN:
FAP No.:

45th STREET (Jog Rd to Haverhill Rd)
Palm Beach Proj No. 2003512
Supplement No. 4
N/A

Metric Engineering, Inc.
2.1625.04
5/29/2007
R Shillingford

Staff Classification	Hours	Project Manager	Chief Struct. Engineer	Sr. Rdwy Engineer	Proj. Eng. Struct.	Proj. Eng. Rdway	Sr. CADD	Hours	Cost By For Activity	Average Hourly Rate
		\$42.00	\$44.00	\$36.00	\$34.00	\$32.00	\$22.50			
3. Project General Tasks	56	18	5	14	19	0	0	56	\$2,126.00	\$37.96
4. Roadway Analysis	149	18	0	65	0	46	20	149	\$5,018.00	\$33.68
5. Roadway Plans	261	20	0	54	0	77	110.0	261.0	\$7,723.00	\$29.59
6. Drainage Analysis	37	2	0	20	0	8	7	37	\$1,217.50	\$32.91
8. Environmental Permits	110	11	0	61	0	16	22	110	\$3,665.00	\$33.32
19. Signing & Marking Analysis	31	1	0	10	0	10	10	31	\$947.00	\$30.55
20. Signing & Marking Plans	22	2	0	2	0	7	11	22	\$627.50	\$28.52
21. Signalization Analysis	31	3	0	8	0	12	8	31	\$978.00	\$31.55
22. Signalization Plans	14	1	0	3	0	5	5	14	\$422.50	\$30.18
Roadway Sub-Total	711	76	5	237	19	181	193	711		
B. Structure Design										
9. Structures - Summary	49	21	14		14			49	\$1,974.00	\$40.29
13. Structures - Medium Span Concrete	80	5	12		29		34	80	\$2,489.00	\$31.11
17. Structures - Retaining Walls	70	6	10		23		31	70	\$2,171.50	\$31.02
18. Structures - Miscellaneous	40	4	4		12		20	40	\$1,202.00	\$30.05
Structure Sub -Total	239	36	40	0	78	0	85	239		
TOTAL MANHOURS	950	112	45	237	97	181	278	950		
TOTAL SALARY COSTS		\$4,704.00	\$1,980.00	\$8,532.00	\$3,298.00	\$5,782.00	\$6,255.00		\$30,561.00	\$32.17

TOTAL CONTRACT FEE COMPUTATION

POST DESIGN SERVICES	
20 HR Project Manager @ \$42.00	\$840.00
20 HR Project Engineer @ \$32.00	\$640.00
	<u>\$1,480.00</u>
Administration & General 166%	\$2,456.80
	\$3,936.80
Lump Sum for Operation Margin 10%	\$393.68
Total Post Design Services:	\$4,330.48

Total Activity Salary Costs (Lump Sum)		\$30,561.00
(1) Overhead Additives		
(a) Administration & General	166%	\$50,731.26
	Subtotal (Salary and Overhead)	\$81,292.26
(b) Lump Sum for Operation Margin	10%	\$8,129.23
	Subtotal (Salary Related Costs)	\$89,421.49
(c) Parcel Sketches 8 @ \$450.00		\$3,600.00
(2) Subconsultant Services		
(a) Brown & Phillips, Inc.		\$19,884.60
(a) Tierra		\$7,955.00
(3) Reimbursable Expenses		
11 x 17 cox Final Submittal .25 x 60		\$15.00
(4) Post Design Services		\$4,330.48
(5) Tree Permit Fee paid for by Metric Engineering 4/20/07		\$50.00
(6) Dewatering Permit Fee		\$1,800.00

GRAND TOTAL ESTIMATED FEE: \$127,056.57

** 2.93 multiplier*

Prepared by: Ross Shillingford, P.E. & Alfredo Sainz, P.E.

EXHIBIT "A"

SCOPE OF SERVICES

INTRODUCTION

Metric Engineering, Inc. proposes to provide professional services in connection with the plans revisions and changes beyond the Scope of Work as summarized below:

- Changes to the storm water management pond location and configuration related to coordination and negotiation with the property owner.
- Changes to the roadway typical sections, plans and cross sections including use of guardrail vs. barrier wall on the bridge approaches; elimination of utility strip and revised sidewalk width on south side of 45th St.; revised R/W acquisition width along south side of 45th St.
- Additional and new Parcel Sketches and Legal Descriptions related to the above-mentioned changes.
- Addition of new MSE wall and associated analysis and design of four alternatives involving evaluation of wall height, type, length, and location; and changes to the embankment grading for swale drainage, etc.
- Tree Survey for Tree Removal Permit and associated permit coordination efforts.
- Changes to the Begin Project limits to accommodate revisions to the adjacent Jog Rd. project alignment.
- Additional structural analysis and design due to the latest FDOT structural requirements.
- Additional NPDES Permit plans preparation requirements.
- Additional efforts involved with changing the scale of the Traffic Control Plans and additional details as requested by Florida's Turnpike Enterprise.
- Revisions to the east approach at the Haverhill Rd. intersection on the north side involving the right turn lane and drainage layout.

The above-described changes involve revisions to Roadway, Signing & Pavement Marking, Signalization and Structural Plans in accordance with the guidelines provided by Palm Beach County Engineering.

A. BASIC SERVICES

1. Roadway Design
2. Drainage Design & Permitting
3. Signing & Pavement Marking
4. Signalization
5. Parcel Sketches
6. Structural Design

A. REIMBURSABLE SERVICES

1. Geotechnical Services
2. Survey Services

A. BASIC SERVICES

Roadway Design

Changes to the roadway typical sections, plans and cross sections including the following:

- Use of guardrail vs. barrier wall on the bridge approaches
- Elimination of utility strip and revised sidewalk width on south side of 45th St.;
- Revised R/W acquisition width along south side of 45th St.
- Addition of new MSE wall and associated analysis and design of four alternatives involving evaluation of wall height, type, length, and location;
- Changes to the embankment grading for swale drainage, etc.
- Changes to the Begin Project limits to accommodate revisions to the adjacent Jog Rd. project alignment.
- Revisions to the east approach at Haverhill Rd. involving the right turn lane.

Drainage Design

Changes to the storm water management pond location and configuration related to coordination and negotiation with the property owner.

Revisions to the proposed drainage layout and french drain on the east approach to Haverhill Rd. on the north side.

Tree Removal Permit and associated permit coordination efforts.

Signing & Pavement Marking

Changes to the Begin Project limits to accommodate revisions to the adjacent Jog Rd. project alignment. Plans required dual design of Jog Road Intersection interim and ultimate condition.

Changes to the east approach at Haverhill Rd. to convert to a drop right condition.

Signalization

Revision of signal plans required to address Jog Road alignment changes for the ultimate configuration.

Metric Engineering, Inc.

45th Street from Jog Rd to Haverhill Rd #2003512
Scope of Service Supplemental Agreement No. 4

May 29, 2007

Parcel Sketches and Legal Descriptions

Revisions and new Parcel Sketches and Legal Descriptions related to the described changes.

Structural Engineering

The structural engineering modifications include the following redesigns and additions:

- Revisions to the Wall Control drawings to address changes to the Jog Rd. project limits.
- Additional design analysis and Wall Control drawings for an additional MSE Wall adjacent to the Costco property.
- Structural analysis and design for revised mast arm layout at Jog Rd. intersection due to revised Jog. Rd. alignment.
- Additional design analysis and plan revisions based on latest FDOT Load Rating procedures.

Reimbursable Services

Geotechnical Services – See attached Scope by Tierra, Inc.

Survey Services – See attached Scope by Brown & Phillips, Inc.

Project Activity 3: General Tasks

Estimator: R Shillingford, P.E.

45th STREET (Jog Rd to Haverhill Rd)

2.1625.04

Supplement No. 4

Form Revised 6/6/05

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
3.1	Public Involvement	LS	1	0	0	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications Package Preparation	LS	1	24	24	Assistance with contract bid package preparation and contractor questions, etc.
3.4	Contract Maintenance	LS	1	0	0	
3.5	Value Engineering (Multi-discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	32	32	Additional meetings and coordination related to project changes described in the Scope of Services.
3.7	Other Project General	LS	1	0	0	
3. General Tasks Total					56	

Project Activity 4: Roadway Analysis

Estimator: R Shillingford, P.E.

45th STREET (Jog Rd to Haverhill Rd)

2.1625.04

Supplement No. 4

Form Revised 6/6/05

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	0	0	
4.2	Pavement Design Package	LS	1	0	0	
4.3	Access Management	LS	1	0	0	
4.4	Horizontal /Vertical Master Design Files	LS	1	48	48	For revised projects limits, pond reconfiguration, new MSE wall, guardrail vs. barrier wall and other changes described in the Scope of Services.
4.5	Cross Section Design Files	LS	1	32	32	For revised projects limits, pond reconfiguration, new MSE wall, guardrail vs. barrier wall and other changes described in the Scope of Services.
4.6	Traffic Control Analysis	LS	1	0	0	
4.7	Master TCP Design Files	LS	1	24	24	Revisions to the TCP based on Turnpike comments.
4.8	Design Variations and Exceptions	LS	1	0	0	
4.9	Design Report	LS	1	0	0	
4.10	Computation Book & Quantities	LS	1	20	20	For revised projects limits, pond reconfiguration, new MSE wall, guardrail vs. barrier wall and other changes described in the Scope of Services.
4.11	Cost Estimate	LS	1	0	0	
4.12	Technical Special Provisions	LS	1	0	0	
4.13	Other Roadway Analysis	LS	1	6	6	For pond corner and fence location revisions related to FPL pole relocations
Roadway Analysis Technical Subtotal					√ 130	
4.14	Field Reviews	LS	1	4	4	2 people x 2 hrs x 1 review
4.15	Technical Meetings	LS	1	12	12	2 people x 2 hrs x 3 mtngs
4.16	Quality Assurance/Quality Control	LS	%	0%	0	
4.17	Independent Peer Review	LS	%	0%	0	
4.18	Supervision	LS	%	0%	0	
Roadway Analysis Nontechnical Subtotal					√ 16	
4.19	Coordination	LS	%	2%	3	
4. Roadway Analysis Total					√ 149	

Project Activity 5: Roadway Plans

Estimator: R Shillingford, P.E.

45th STREET (Jog Rd to Haverhill Rd)
2.1625.04
Supplement No. 4

Task No.	Task	Scale	Units	No. of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
5.1	Key Sheet		Sheet	1	0	0	0	
5.2	Summary of Pay Items-including Quantity Input		Sheet	0	0	0	0	
5.3	Drainage Map		Sheet	1	4	1	4	For revised limits, pond revisions, etc.
5.4	Interchange Drainage Map		Sheet	0	0	0	0	
5.5	Typical Section Sheets		Sheet	6	3	3	18	For guardrail vs. barrier wall, sidewalk width, new MSE wall, etc.
5.6	General Notes/Pay Item notes		Sheet	0	0	0	0	
5.7	Summary of Quantities		Sheet	1	4	1	4	For revisions to quantities.
5.8	Box Culvert Data Sheet		Sheet	0	0	0	0	
5.9	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	0	
5.10	Summary of Drainage Structures		Sheet	3	3	3	9	Revisions associated with project changes as described in the Scope of Services.
5.11	Optional Pipe/ Culvert Material		Sheet	0	0	0	0	
5.12	Project Layout		Sheet	0	0	0	0	
5.13	Plan/Profile Sheet		Sheet	0	0	0	0	
5.14	Profile Sheet		Sheet	0	0	0	0	
5.15	Plan Sheet		Sheet	11	4.5	11	49.5	For changes related to guardrail, swk, pond, etc.
5.16	Special Profile		Sheet	0	0	0	0	
5.17	Back of Sidewalk Profile Sheet		Sheet	0	0	0	0	
5.18	Interchange Layout Sheet		Sheet	0	0	0	0	
5.19	Ramp Terminal Details (Plan View)		Sheet	0	0	0	0	
5.20	Intersection Layout Details		Sheet	0	0	0	0	
5.21	Miscellaneous Detail Sheets		Sheet	0	0	0	0	
5.22	Drainage Structure Sheet (per Structure)		EA	8	4	4	32	Barrier wall inlets changed to curb inlets; revisions on east approach at Haverhill Rd.
5.23	Miscellaneous Drainage Detail Sheets		Sheet	1	3	1	3	

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
5.24	Lateral Ditch Plan/Profile		Sheet	0	0	0	0	
5.25	Lateral Ditch Cross sections		EA	0	0		0	
5.26	Retention/Detention Ponds Detail Sheet		Sheet	1	12	1	12	For pond reconfiguration (size and location)
5.27	Retention Pond Cross Sections		EA	10	1	4	10	For pond reconfiguration (cross sections, earthwork, etc.)
5.28	Cross-section Pattern Sheet		Sheet	0	0	0	0	
5.29	Roadway Soil Survey Sheet		Sheet	0	0	0	0	
5.30	Cross Sections		EA	56	1	32	56	For changes re: guardrail, swk width, new MSE wall, project limits, , etc. including earthwork.
5.31	Traffic Control Plan Sheets		Sheet	19	2	19	38	To increase scale of plans from 200 to 100 per Turnpike request.
5.32	Traffic Control Cross Section Sheets		EA	0	0		0	
5.33	Traffic Control Detail Sheets		Sheet	0	0	0	0	
5.34	Utility Adjustment Sheets		Sheet	0	0	0	0	
5.35	Selective Clearing and Grubbing		Sheet	0	0	0	0	
5.36	Erosion Control Plan		Sheet	19	0.5	19	9.5	For addition of Erosion Control Items to the Plan sheets
5.37	SWPPP		Sheet	1	16	1	16	For new SWPPP General Notes sheet.
5.38	Project Control Network Sheet		Sheet	0	0	0	0	
5.39	Interim Standards		LS	1	0		0	
5.40	Utility Verification Sheet (SUE data)		Sheet	0	0	0	0	
Roadway Plans Technical Subtotal						100	261.0	
5.41	Quality Assurance/Quality Control		LS	%	0%		0	
5.42	Supervision		LS	%	0%		0	
5. Roadway Plans Total						100	261.0	

Project Activity 6: Drainage Analysis

Estimator: R Shillingford, P.E.

45th STREET (Jog Rd to Haverhill Rd)

2.1625.04

Form Revised 6/6/05

Supplement No. 4

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
6.1	Determine Base Clearance Water Elevation	Per Location	0	0	0	
6.2	Pond Siting Analysis and Report	Per Basin	0	0	0	
6.3	Design of Cross Drains	EA	0	0	0	
6.4	Design of Roadway Ditches	Per Ditch Mile	0	0	0	
6.5	Design of Outfalls	EA	0	0	0	
6.6	Design of Stormwater Management Facility (Offsite Pond)	EA	1	16	16	Pond size revisions / design
6.7	Design of Stormwater Management Facility (Roadside Ditch as Linear Pond)	Per System	0	0	0	
6.8	Design of Flood Plain Compensation Area	Per Encroachment	0	0	0	
6.9	Design of Storm Drains	EA	0	0	0	
6.10	Optional Culvert Material	LS	0	0	0	
6.11	French Drain Systems	Per 1000 Feet of French Drain	0	0	0	
6.12	Drainage Wells	EA	0	0	0	
6.13	Drainage Design Documentation Report	LS	1	20	20	Updates due to pond and drainage structure revisions.
6.14	Preparation of Bridge Hydraulic Report	EA	0	0	0	
6.15	Temporary Drainage Analysis	LS	1	0	0	
6.16	Cost Estimate	LS	1	0	0	
6.17	Technical Special Provisions	LS	1	0	0	
6.18	Other Drainage Analysis	LS	0	0	0	

Project Activity 6: Drainage Analysis

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
Drainage Analysis Technical Subtotal					36	
6.19	Field Reviews	LS	1	0	0	
6.20	Technical Meetings	LS	1	0	0	
6.21	Quality Assurance/Quality Control	LS	%	0%	0	
6.22	Independent Peer Review	LS	%	0%	0	
6.23	Supervision	LS	%	0%	0	
Drainage Analysis Nontechnical Subtotal					0	
6.24	Coordination	LS	%	2%	1	
6. Drainage Analysis Total					37	

Project Activity 8: Environmental Permits

Estimator: R Shillingford, P.E.
Form Revised 6/6/05

45th STREET (Jog Rd to Haverhill Rd)
Supplement No. 4

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.1	Preliminary Project Research	LS	1	0	0	
8.2	Complete Permit Involvement Form	LS	1	0	0	
8.3	Establish Wetland Jurisdictional Lines	LS	1	0	0	
8.4	Agency Verification of Wetland Data	LS	1	0	0	
8.5	Complete And Submit All Required Permit Applications	LS	1	8	8	To incorporate Jog Rd, 45th St and Haverhill Rd into one permit application submittal
8.6	Prepare Dredge and Fill Sketches	LS	1	8	8	Revisions based on pond chnages
8.7	Prepare USCG Permit Sketches	LS	1	0	0	
8.8	Prepare Easement Sketches	LS	1	0	0	
8.9	Prepare R/W Occupancy Sketches	LS	1	0	0	
8.10	Prepare Coastal Construction Control Line (CCCL) Permit Sketches	LS	1	0	0	
8.11	Prepare Tree Permit Information	LS	1	40	40	City Tree Removal Permitting and coordination
8.12	Mitigation Coordination and Meetings	LS	1	0	0	
8.13	Mitigation Design	LS	1	0	0	
8.14	Environmental Clearances	LS	1	0	0	
8.15	Other Environmental	LS	1	40	40	Dewatering Permit Application requirements (including pumpage calculations, etc)
Environmental Permits Technical Subtotal					96	
8.16	Technical Meetings	LS	1	12	12	2 people x 3 mtngs x 3 hrs
8.17	Quality Assurance/Quality Control	LS	%	0%	0	
8.18	Supervision	LS	%	0%	0	
Environmental Permits Nontechnical SubTotal					12	
8.19	Coordination	LS	%	2%	2	
8. Environmental Permits Total					110	

Project Activity 19: Signing and Pavement Marking Analysis

Estimator: R Shillingford, P.E.

45th STREET (Jog Rd to Haverhill Rd)

2.1625.03

Form Revised 6/6/05

Supplement No. 4

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	0	0	
19.2	No Passing Zone Study	LS	1	0	0	
19.3	Reference and Master Design File	LS	1	16	16	For Jog Rd. alignment and project limit changes (interim and ultimate); for changes @ east approach at Haverhill Rd
19.4	Multi Post Sign Support Calculations	EA	0	0	0	
19.5	Sign Panel Design Analysis	EA	0	0	0	
19.6	Sign Lighting/Electrical Calculations	EA	0	0	0	
19.7	Quantities	LS	1	6	6	For changes described above
19.8	Computation Book	LS	1	0	0	
19.9	Cost Estimate	LS	1	4	4	For changes described above
19.10	Technical Special Provisions	LS	1	0	0	
19.11	Other Signing and Pavement Marking	LS	1	0	0	
Signing & Pavement Marking Analysis Technical Subtotal					26	
19.12	Field Reviews	LS	1	0	0	
19.13	Technical Meetings	LS	1	4	4	
19.14	Quality Assurance/Quality Control	LS	%	0%	0	
19.15	Independent Peer Review	LS	%	0%	0	
19.16	Supervision	LS	%	0%	0	
Signing & Pavement Marking Analysis Nontechnical Subtotal					4	
19.17	Coordination	LS	%	2%	1	
19. Signing & Pavement Marking Analysis Total					31	

Project Activity 20: Signing and Pavement Marking Plans

Estimator: R Shillingford, P.E.

45th STREET (Jog Rd to Haverhill Rd)
2.1625.03
Supplement No. 4

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	0	0	0	0	
20.2	Summary of Pay Items-including CES Input		LS	1	0		0	
20.3	Tabulation of Quantities		Sheet	1	6	1	6	For Jog Rd. alignment and project limit changes; for changes at Haverhill Rd east approach
20.4	General Notes / Pay Item Notes		Sheet	0	0	0	0	
20.5	Project Layout		Sheet	0	0	0	0	
20.6	Plan Sheet		Sheet	4	4	4	16	As described above
20.7	Typical Details		EA	0	0		0	
20.8	Guide Sign Work Sheet (s)		EA	0	0		0	
20.9	Traffic Monitoring Site		EA	0	0		0	
20.10	Cross Sections		EA	0	0		0	
20.11	Special Service Point Detail		EA	0	0		0	
20.12	Special Details		LS	1	0		0	
20.13	Interim Standards		LS	1	0		0	
Signing & Pavement Marking Plans Technical Subtotal						✓ 5	✓ 22	
20.14	Quality Assurance/Quality Control		LS	%	0%		0	
20.15	Supervision		LS	%	0%		0	
20. Signing & Pavement Marking Plans Total						✓ 5	✓ 22	

Project Activity 21: Signalization Analysis

Estimator: R Shillingford, P.E.

45th STREET (Jog Rd to Haverhill Rd)

2.1625.03

Form Revised 6/6/05

Supplement No. 4

Task No.	Task	Units	No. of	Hours/Units	Total Hours	Comments
21.1	Traffic Data Collection	LS	1	0	0	
21.2	Traffic Data Analysis	PI	2	0	0	
21.3	Signal Warrant Study	LS	1	0	0	
21.4	System Timings	LS	1	0	0	
21.5	Reference and Master Signalization Design File	PI	1	16	16	For Jog Rd alignment changes.
21.6	Reference and Master Interconnect Communication Design File	LS	1	0	0	
21.7	Overhead Street Name Sign Design	EA	2	0	0	
21.8	Pole Elevation Analysis	LS	1	4	4	For Jog Rd alignment changes.
21.9	Traffic Signal Operation Report	LS	1	0	0	
21.10	Quantities	LS	1	4	4	For Jog Rd alignment changes.
21.11	Cost Estimate	LS	1	2	2	For Jog Rd alignment changes.
21.12	Technical Special Provisions	LS	1	0	0	
21.13	Other Signalization	LS	1	0	0	
Signalization Analysis Technical Subtotal					✓ 26	
21.14	Field Reviews	LS	1	0	0	
21.15	Technical Meetings	LS	1	4	4	
21.16	Quality Assurance/Quality Control	LS	%	0%	0	
21.17	Independent Peer Review	LS	%	0%	0	
21.18	Supervision	LS	%	0%	0	
Signalization Analysis Nontechnical Subtotal					✓ 4	
21.19	Coordination	LS	%	2%	1	
19. Signalization Analysis Total					✓ 31	

Project Activity 22: Signalization Plans

Estimator: R Shillingford, P.E.

45th STREET (Jog Rd to Haverhill Rd)

2.1625.03

Supplement No. 4

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
22.1	Key Sheet		Sheet	0	0	0	0	
22.2	Summary of Pay Items-including CES Input		Sheet	0	0	0	0	
22.3	Tabulation of Quantities		Sheet	1	2	1	2	For Jog Rd alignment changes.
22.4	General Notes/Pay Item notes		Sheet	0	0	0	0	
22.5	Plan Sheet		Sheet	1	8	1	8	For Jog Rd alignment changes.
22.6	Interconnect Plans		Sheet	0	0	0	0	
22.7	Traffic Monitoring Site		EA	0	0		0	
22.8	Guide Sign Work Sheet		EA	0	0		0	
22.9	Special Details		Sheet	0	0	0	0	
22.10	Special Service Point Details		EA	0	0		0	
22.11	Mast Arm / Monotube Tabulation Sheet		PI	1	4		4	For Jog Rd alignment changes.
22.12	Strain Pole Schedule		PI	0	0		0	
22.13	TCP Signal (Temporary)		EA	0	0		0	
22.14	Temporary Detection Sheet		PI	0	0		0	
22.15	Utility Conflict Sheet		Sheet	0	0	0	0	
22.16	Interim Standards		LS	1	0		0	
Signalization Plans Technical Subtotal						2	14	
22.17	Quality Assurance/Quality Control		LS	%	0%		0	
22.18	Supervision		LS	%	0%		0	
22. Signalization Plans Total						2	14	

Project Activity 9: Structures - Miscellaneous Tasks

Estimator: Alfredo Sainz, P.E.

45th STREET (Jog Rd to Haverhill Rd)

2.1625.03

Supplement No. 4

Form Revised 6/6/05

Task No.	Task	Units	Design and Production Staffhours				Comments				
			No. of Units	Hours per Unit	No. of Sheets	Total					
General Drawings											
9.1	Index of Drawings	sheet	0	0	0	0					
9.2	Project Layout	sheet	0	0	0	0					
9.3	General Notes and Bid Item Notes	sheet	0	0	0	0					
9.4	Incorporate FDOT Standards	sheet	0	0	0	0					
9.5	Incorporate Report of Core Borings	sheet	0	0	0	0					
9.6	Existing Bridge Plans	LS	10	2	10	20	Revise Computation Book				
9.7	Computation Book and Quantities	LS	1	16	0	16	Revise Cost Estimate				
9.8	Cost Estimate	LS	1	8	0	8					
9.9	Technical Special Provisions	LS	1	0	0	0					
Structures - Miscellaneous Tasks & Drawings Subtotal					✓ 10	✓ 44					
Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10-16	Bridge 1	80	0	0	0	80	0	0	0		
10-16	Bridge 2	0									
10-16	Bridge 3	0									
17	Retaining Walls	70								70	
18	Miscellaneous Structures	40									40
Structures Technical Subtotals		✓ 190	0	0	0	✓ 80	0	0	0	✓ 70	✓ 40
Task No.	Task	Units	No. of Units	Hours per Unit	Total	Comments					
9.10	Field Reviews	LS	0	0	0						
9.11	Technical Meetings	LS	0	0	0						
9.12	Quality Assurance / Quality Control	LS	%	0%	0						
9.13	Independent Peer Review	LS	%	0%	0						
9.14	Supervision	LS	%	0%	0						
Structures Non-Technical Subtotal					0						
9.15	Coordination	LS	%	2%	✓ 5						
9. Structures - Miscellaneous Tasks & Drawings, Non-Technical, & Coordination Total					✓ 49						

Project Activity 13: Structures - Medium Span Concrete

Estimator: Alfredo Sainz, P.E.

45th STREET (Jog Rd to Haverhill Rd)

2.1625.03

Bridge Identifier (Number or Name):

Supplement No. 4

Task No.	Task	Units	No. of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
General Layout Design and Plans							
13.1	Overall Bridge Final Geometry	LS	1	0		0	
13.2	Expansion/Contraction Analysis	EA Unit	0	0		0	
13.3	General Plan and Elevation	Sheet	0	0	0	0	
13.4	Construction Staging	Sheet	0	0	0	0	
13.5	Approach Slab Plan and Details	Sheet	0	0	0	0	
13.6	Miscellaneous Details	Sheet	0	0	0	0	
End Bent Design and Plans							
13.7	End Bent Geometry	EA	0	0		0	
13.8	Wingwall Design and Geometry	EA Bent	0	0		0	
13.9	End Bent Structural Design	EA	0	0		0	
13.10	End Bent Plan and Elevation	Sheet	0	0	0	0	
13.11	End Bent Details	Sheet	0	0	0	0	
Intermediate Bent Design and Plans							
13.12	Bent Geometry	EA bent	0	0		0	
13.13	Bent Stability Analysis	EA Design	0	0		0	
13.14	Bent Structural Design	EA Design	0	0		0	
13.15	Bent Plan and Elevation	Sheet	0	0	0	0	
13.16	Bent Details	Sheet	0	0	0	0	

Project Activity 13: Structures - Medium Span Concrete

Task No.	Task	Units	No. of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
Pier Design and Plans							
13.17	Pier Geometry	EA Pier	0	0		0	
13.18	Pier Stability Analysis	EA Design	0	0		0	
13.19	Pier Structural Design	EA Design	0	0		0	
13.20	Pier Plan and Elevation	Sheet	0	0	0	0	
13.21	Pier Details	Sheet	0	0	0	0	
Misc. Substructure Design and Plans							
13.22	Foundation Layout	Sheet	0	0	0	0	
13.23	Fender System	LS	1	0		0	
Superstructure Deck Design and Plans							
13.24	Finish Grade Elevation (FGE) Calculation	LS	1	0		0	
13.25	Finish Grade Elevations	Sheet	0	0	0	0	
13.26	Bridge Deck Design	EA Section	0	0		0	
13.27	Bridge Deck Reinforcing and Concrete Quantities	EA Unit	0	0		0	
13.28	Diaphragm design/ jacking loads	EA Section	0	0		0	
13.29	Superstructure Plan	Sheet	0	0	0	0	
13.30	Superstructure Section	Sheet	0	0		0	
13.31	Miscellaneous Superstructure Details	Sheet	0	0	0	0	
Reinforcing Bar Lists							
13.32	Reinforcing Bar List	Sheet	1	0	0	0	

Project Activity 13: Structures - Medium Span Concrete

Task No.	Task	Units	No. of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
Continuous Concrete Girder Design							
Longitudinal Analysis							
13.33	Section Properties	LS	1	0		0	
13.34	Material Properties	LS	1	0		0	
13.35	Construction Sequence	EA Unit	0	0		0	
13.36	Tendon Layouts	EA Unit	0	0		0	
13.37	Live Load Analysis	EA Unit	0	0		0	
13.38	Temperature Gradient	EA Unit	0	0		0	
13.39	Time Dependent Analysis	EA Unit	0	0		0	
13.40	Stress Summary	EA Unit	0	0		0	
13.41	Ultimate Moments	EA Unit	0	0		0	
13.42	Ultimate Shear	EA Unit	0	0		0	
13.43	Construction Loading	EA Unit	0	0		0	
13.44	Framing Plan	Sheet	0	0	0	0	
13.45	Girder Elevation, including Grouting Plan and Vent Locations	Sheet	0	0	0	0	
13.46	Girder Details	Sheet	0	0	0	0	
13.47	Structural Steel Details	Sheet	0	0	0	0	
13.48	Splice Details	Sheet	0	0	0	0	
13.49	Girder Deflections and Camber	Sheet	0	0	0	0	

Project Activity 13: Structures - Medium Span Concrete

Task No.	Task	Units	No. of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
Simple Span Concrete Design							
13.50	Prestressed Beam	EA Beam	0	0		0	
13.51	Prestressed Beam Schedules	Sheet	0	0	0	0	
13.52	Framing Plan	Sheet	0	0	0	0	
Load Rating							
13.53	Load Rating	EA Unit	1	80		80	Revise in accordance with FDOT Temporary Design Bulletin C0-7-1 of Feb 14, 2007 5 different vehicles
13. Structures-Medium Span Concrete Total					0	80	

Project Activity 17: Retaining Walls

Estimator: Alfredo Sainz, P.E.

45th STREET (Jog Rd to Haverhill Rd)
2.1625.03
Supplement No. 4

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
General Requirements							
17.1	Key Sheet	Sheet	1	4	1	4	Revise again due to change of alignment of Jog Rd.
17.2	Horizontal Wall Geometry	Per Wall	3	6	1	18	Revise again Walls No. 1 & 3 due to change of alignment of Jog Rd, and add new Wall No. 7
Permanent Proprietary Walls							
17.3	Vertical Wall Geometry	Per Wall	3	8	1	24	Revise again Walls No. 1 & 3 due to change of alignment of Jog Rd, and add Wall No. 7.
17.4	Semi-Standard Drawings	Sheet	0	0	0	0	
17.5	Wall Plan and Elevations (Control Drawings)	Sheet	3	8	1	24	Revise again Walls No. 1 & 3 due to change of alignment of Jog Rd, and new Wall No. 7
17.6	Details	Sheet	0	0	0	0	
Temporary Proprietary Walls							
17.7	Vertical Wall Geometry	Per Wall	0	0	0	0	
17.8	Semi-Standard Drawings	Sheet	0	0	0	0	
17.9	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	
17.10	Details	Sheet	0	0	0	0	
Cast in Place Retaining Walls							
17.11	Design	EA Design	0	0	0	0	
17.12	Vertical Wall Geometry	EA Wall	0	0	0	0	
17.13	General Notes	Sheet	0	0	0	0	
17.14	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	
17.15	Sections and Details	Sheet	0	0	0	0	
17.16	Reinforcing Bar List	Sheet	0	0	0	0	

Project Activity 17: Retaining Walls

Task No.	Task	Unit	No. of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
Other Retaining Walls							
17.17	Design	EA Design	0	0	0	0	
17.18	Vertical Wall Geometry	EA Wall	0	0	0	0	
17.19	General Notes, Tables & Misc. Details	Sheet	0	0	0	0	
17.20	Wall Plan and Elevations	Sheet	0	0	0	0	
17.21	Details	Sheet	0	0	0	0	
17. Retaining Walls Total					4	70	

Project Activity 18: Miscellaneous Structures

Estimator: Alfredo Sainz, P.E.

45th STREET (Jog Rd to Haverhill Rd)

2.1625.03

Form Revised 3/28/05

Supplement No. 4

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Concrete Box Culvert							
18.1	Concrete Box Culverts	EA	0	0		0	
18.2	Concrete Box Culverts Extensions	EA	0	0		0	
Strain Poles							
18.3	Steel Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.4	Concrete Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
Mast Arms							
18.5	Mast Arms	EA Pole	2	20		40	Revise again configuration due to Jog Rd. alignment changes
Overhead & Cantilever Sign Structures							
18.6	Cantilever Sign Structures	EA	0	0		0	
18.7	Overhead Span Sign Structures	EA	0	0		0	
18.8	Special (longspan) Overhead Span Sign Structures	EA	0	0		0	
18.9	Monotube Overhead Sign Structure	EA	0	0		0	
18.10	Bridge Mounted Signs (Attached to Superstr.)	EA	0	0		0	
High Mast Lighting Fixtures							
18.11	High Mast Lighting Structures	EA	0	0		0	
Sound Barrier Walls (Ground Mount)							
18.12	Horizontal Wall Geometry	EA Wall	0	0		0	
18.13	Vertical Wall Geometry	EA 500 feet of Wall	0	0		0	
18.14	Semi-Standard Drawings	Sheet	0	0		0	
18.15	Control Drawings	Sheet	0	0		0	
18.16	Design for Wall Height Covered by Standards	EA Design	0	0		0	
18.17	Design for Wall Height Not Covered by Standards	EA Design	0	0		0	
18.18	Aesthetic Details	EA	0	0		0	

Project Activity 18: Miscellaneous Structures

Special Structures						
18.19	Special Structures	LS	1	0		0
18.20	Other Structures	LS	1	0		0
18. Miscellaneous Structures Total					0	40



May 25, 2007

Metric Engineering, Inc.
2081 Vista Parkway, Suite 310
West Palm Beach, FL 33411

Attn: Mr. Ross Shillingford, P.E., Design Manager

Re: **Proposal for Additional Geotechnical Services
Estimated Scope and Cost Proposal – Muck Delineation and Revision of Pile
Analysis and Pile Data Table
For 45th Street From Just West Haverhill Road to Bridge Over Turnpike
Palm Beach County, Florida
Tierra Proposal No.: 0303-079-3**

Dear Ross:

As requested, Tierra, Inc. is pleased to submit this additional service proposal for the above-referenced project. This proposal includes an outline of our proposed scope of work, an estimate of the total fees, and our anticipated schedule for completion of the work.

PROPOSED SCOPE OF WORK

The additional works included in this scope are muck delineation at the vicinity of Roadway Borings AB-17 and AB-28, and revision of pile foundation analysis and pile data table. Upon completion of the field exploration, laboratory testing will be performed on selected samples. The study will be summarized in accordance with the FDOT's Soil and Foundation Manual, 2004. A geotechnical engineer will evaluate the results of all drilling and laboratory testing. A report will be issued that contains the exploration data, a discussion of the site and subsurface conditions, recommendations for foundation design, and a discussion of some construction considerations.

ESTIMATED FEES

It is proposed that the fee for the performance of the services outlined above be determined on a unit price basis in accordance with the attached Fee Schedule, and that the work be performed pursuant to Tierra's General Conditions enclosed herewith and incorporated into this proposal. On the basis of the proposed quantities, it is estimated that the total fee will be approximately \$7,955.

Boring, sampling, and testing requirements are a function of the subsurface conditions encountered. Therefore, the estimated fee previously indicated is approximate, and compensation for the exploration will be based on the actual work and tests performed. We will endeavor to keep the exploration cost at a minimum consisting with good engineering practice.


SCHEDULE AND AUTHORIZATION

Tierra will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting) and fieldwork will take an additional two days to complete. The written report can be submitted about 4 to 5 weeks after completion of the field exploration, depending on the extent of the laboratory-testing program. Verbal preliminary recommendations can be made to appropriate parties prior to submittal of the written report.

We at Tierra, Inc. appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you should have any questions concerning our proposal, please contact our office.

Respectfully submitted,

TIERRA, INC.


Raj Krishnasamy, P.E.
Vice President

AUTHORIZED BY:		INVOICE TO:	
Name:		Firm:	
Title:		Name:	
Date:		Address:	

TIERRA, INC.
ATTACHMENT 1 - FEE ESTIMATE FOR GEOTECHNICAL SERVICES
(MSE WALL, MUCK DELINEATION & REVISION OF PILE ANALYSIS)
45th STREET
PALM BEACH COUNTY, FLORIDA

	UNITS	UNIT RATE	COST
I. FIELD EXPLORATION - MOBILIZATION			
A. Mobilization of Drill Rig and Equipment			
1. Truck Rig			
a. 0 - 50 mile radius	1 Each	\$300.00	✓ \$300.00
b. 50-100 mile radius	0 Each	\$350.00	\$0.00
B. Stake Borings, Utilities Clearance and Turnpike Permit by Sr. Eng. Technician	4 Hours	\$55.00	✓ \$220.00
C. Flagmen			
1. 1-Man Crew (including Safety Equipment)	1 Days	\$790.00	✓ \$790.00
2. 2-Man Crew	0 Hours	\$45.00	\$0.00
D. Hole-to-Hole Movers	0 Each	\$100.00	\$0.00
IIA. FIELD EXPLORATION - ROADWAY/POND			
A. Auger Borings (every 100 feet)	0 Feet	\$8.00	\$0.00
B. Borehole Permeability Tests (Includes 10 feet deep auger borings)	0 Tests	\$250.00	\$0.00
C. Double Ring Infiltration Test	0 Tests	\$500.00	\$0.00
D. Borehole Logging & Sampling by Sr. Eng. Technician	0 Hours	\$45.00	\$0.00
E. Muck Evaluation/Probes	1 Days	\$850.00	✓ \$850.00
F. Pavement Cores	0 Cores	\$75.00	\$0.00
G. Coring Machine Rental	0 Day	\$200.00	\$0.00
III. LABORATORY TESTING			
A. Visual Examination/Stratification by Project Eng.	4 Hours	\$75.00	✓ \$300.00

TIERRA, INC.
ATTACHMENT 1 - FEE ESTIMATE FOR GEOTECHNICAL SERVICES
(MSE WALL, MUCK DELINEATION & REVISION OF PILE ANALYSIS)
45th STREET
PALM BEACH COUNTY, FLORIDA

	UNITS	UNIT RATE	COST
IV. ENGINEERING AND TECHNICAL SERVICES			
1. Project Manager	1 Hours	\$125.00	✓ \$125.00
2. Senior Project Engineer	10 Hours	\$115.00	✓ \$1,150.00
3. Project Engineer	40 Hours	\$100.00	✓ \$4,000.00
4. Senior Engineering Technician	0 Hours	\$52.65	\$0.00
5. Engineering Technician I	0 Hours	\$28.19	\$0.00
6. CADD or Engineering Technician II	4 Hours	\$55.00	✓ \$220.00
TOTAL FEES			✓ \$7,955.00

Shillingford
August 4, 2006
Page 2

III. CANAL CROSS SECTIONS

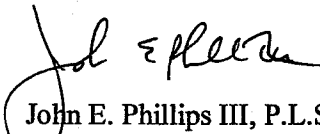
We will perform six (6) canal cross sections of the EPB 10 Canal (1st canal located north of 45th Street on Haverhill Road). The six (6) sections will consist of three (3) sections upstream and downstream of the existing bridge, 50' on center (beginning 50' upstream and downstream of the existing bridge).

IV. CLOSURE

A drawing will be produced which will show all the features located. We propose to provide Metric Engineering with (6) hard copies and an AutoCAD file in the version requested. Any additional work will be done on an hourly basis as approved by you. The proposed cost for this project is \$19,884.60 per Attachment 'A'. Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Sincerely,

Brown & Phillips, Inc.


John E. Phillips III, P.L.S.
Principal

Attachment

JEP/kk

Accepted This _____ Day Of _____, 2006.

Metric Engineering

By: _____

Print Name: _____

ATTACHMENT 'A'

45th Street Tree Survey – Turnpike to Haverhill, South Side of Roadway within the
Proposed Right of Way

Brown & Phillips, Inc. Project No:

Description:

Size: 5,260' (+/- 1,300 trees)

Date of Proposal: August 4, 2006

TASK	3 MAN FIELD	CADD TECH	SURVEY TECH	PLS	COMMENTS
Control	6		3	1	Relocate old control pts. & set new ones in project area
Tree Locations	92	40	28	8	Location within the proposed r/w & pond area and tag trees
Line Clearing	20				
Canal Cross Sections	13	6	3	2	6 sections of EPB 10 Canal
Total Hours	✓ 131	✓ 46	✓ 34	✓ 11	
Rate/Hour	\$108.00	\$59.25	\$59.25	\$90.60	
Sub-total	✓ \$14,148.00	✓ \$2,725.50	✓ \$2,014.50	✓ \$996.60	
Total Price	✓ \$19,884.60				

EXHIBIT "B"

PROJECT: 45th Street – Jog Road to E. of Haverhill Road

PROJECT NO: 2003512

CONSULTANT: Metric Engineering, Inc.

TRUTH-IN-NEGOTIATION STATEMENT

By entering into this Agreement, the **CONSULTANT** certifies that the wage rates and costs used to determine the lump sum fees contained in herein are accurate, complete and current as of the date of this Agreement.

The said lump sum fees shall be adjusted to exclude any significant sums should the **COUNTY** determine that the lump sum fees were increased due to inaccurate, incomplete or non-current wage rates or due to inaccurate representations of fees paid to outside consultants.

The **COUNTY** shall exercise its right under this "Certificate" within one year following final payment.

PROHIBITION AGAINST CONTINGENT FEES STATEMENT

By entering into this Agreement the **CONSULTANT** warrants that they have not employed or retained any company or person other than a bonafide employee working solely for the **CONSULTANT** to solicit or secure this Agreement and that they have not paid or agreed to pay any person, company, corporation, individual or firm other than a bonafide employee working solely for the **CONSULTANT**, any fee, commission, percentage, gift or other consideration contingent upon or resulting from the award of making of this agreement.

PUBLIC ENTITY CRIMES STATEMENT

As provided in F.S. 287.132-133, by entering this Agreement or performing any work in furtherance hereof, the **CONSULTANT** certifies that it, its affiliates, suppliers, sub-contractors and consultants who will perform hereunder, have not been placed on the convicted vendor list maintained by the State of Florida Department of Management Services within the 36 months immediately preceding the date hereof. This notice is required by F.S. 287.133 (3) (a).

NON-DISCRIMINATION STATEMENT

The **CONSULTANT** warrants and represents that all of its employees are treated equally during employment without regard to race, color, religion, disability, sex, age, national origin, ancestry, marital status, or sexual orientation.



Martin Marquez, P.E., Vice President

CONFLICT OF INTEREST DISCLOSURE FORM

ENGINEER represents that it presently has no interest, either direct or indirect, which would or could conflict in any manner with the performance of services for the County, except as follows:

(Attach additional sheets as needed.)

ENGINEER further represents that no person having any interest shall be employed for said performance. By signing below, ENGINEER certifies that the information contained herein is true and correct and constitutes all current potential conflicts of interest which may influence or appear to influence ENGINEER'S judgment or quality of services being provided to the County.

ENGINEER shall promptly notify the COUNTY in writing by certified mail of all potential conflicts of interest that may arise in the future through any prospective business association, interest or other circumstance which may influence or appear to influence ENGINEER'S judgment or quality of services being provided to the County. Such written notification shall identify the prospective business association, interest or circumstance, the nature of work that ENGINEER may undertake and request an opinion of the COUNTY as to whether the association, interest or circumstance would, in the opinion of the COUNTY, constitute an unacceptable conflict of interest if entered into by the ENGINEER.

If, in the sole opinion of the COUNTY, the prospective business association, interest or circumstance of ENGINEER would constitute an unacceptable conflict of interest to the COUNTY, the COUNTY shall so state in the notification and the ENGINEER shall not enter into said association, interest or circumstance.

THIS DISCLOSURE is submitted by Martin Marquez, P.E., as

(Name of Individual)

Vice President

(Title/Position)

, of Metric Engineering, Inc.

(Firm Name of ENGINEER)

who hereby certifies that the information stated above is true and correct. Further, it is hereby acknowledged that any misrepresentation by the Consultant on this Disclosure is considered an unethical business practice and is grounds for sanctions against future County business with the Consultant.



(Signature)

July 24, 2007

(Date)

EXHIBIT "C"

07/24/2007

PARTICIPATION FOR MWBE/SBE CONSULTANTS
Supplement Number 4

Project Name: 45th Street from Jog Road to Haverhill Road

Project No.: 2003512

Prime Consultant: Metric Engineering, Inc.

Prime Contact Person:

Telephone No.: (561) 640-1306

Resolution Date: 09/23/2003

Res #: R2003-1492

Supplement date: 09/11/2007

Department: Engineering & Public Works

Name / Address / Telephone of Minority Sub-Consultant	Type / Description of Work Performed by Sub-Consultant		Contract Dollar Amount for Sub-Consultant				
			Black	Hispanic	Other	Women	White Male
Brown & Phillips, Inc. 901 NORTHPOINT PKY STE 305 WEST PALM BEACH, FL 33407 (561) 615-3988	Surveyor	MWBE	0.00	0.00	0.00	0.00	
		SBE	19,884.60	0.00	0.00	0.00	0.00
Tierra, Inc. 2765 VISTA PKY STE 10 WEST PALM BEACH, FL 33411 (561) 687-8536	Geotechnical	MWBE	0.00	7,955.00	0.00	0.00	
		SBE	0.00	0.00	0.00	0.00	0.00
Total MWBE			0.00	7,955.00	0.00	0.00	
%				6.26			
Total SBE			19,884.60	0.00	0.00	0.00	0.00
%			15.65				

Total Supplement Amount: **127,056.57**

EXHIBIT "D"

**LETTER OF INTENT TO PERFORM AS AN
SBE, M/WBE AND/OR SUB-CONSULTANT**

TO: Metric Engineering, Inc.
(NAME OF PRIME CONSULTANT)

2081 Vista Parkway, Suite 310, West Palm Beach, Florida 33411

(ADDRESS)

Note: If Prime is an SBE or M/WBE, address Letter of Intent to "Palm Beach County."

CONTACT PERSON & TITLE:

FROM: Brown & Phillips, Inc.
SUB-CONSULTANT (Prime if SBE or M/WBE)

901 Northpoint Parkway, Suite 305, West Palm Beach, Florida 33407

(ADDRESS)

561-615-3988

(TELEPHONE No.)

561-615-3986

(FAX No.)

CONTACT PERSON: Mr. John E. Phillips III, P.L.S.

TITLE: Principal EMAIL: john@brown-phillips.com

The undersigned intend to perform work in connection with the above project as (check one):

an individual a corporation a partnership a joint venture

B. PALM BEACH COUNTY CERTIFIED SBE OR M/WBE * : YES NO **If YES, Check all that apply:**

* MBE: BL H WBE O(Other)

* SBE: BL H WBE O(Other) White Male

* ATTACH APPLICABLE COPY OF NOTICE OF PALM BEACH COUNTY SBE OR M/WBE CERTIFICATION

The undersigned is prepared to perform the following described work in connection with the project (specify in detail, particular work items or parts thereof to be performed by the sub-consultant) or Prime if SBE or M/WBE:

1. Activity Provided: Surveyor Services

2. ** SUB-CONSULTANT'S "TOTAL PARTICIPATION" FOR THIS PROJECT : 15.65 %

NOTE: Line 2 shall be the ACTUAL % of Total Project, NOT 100%.

The undersigned will enter into a formal agreement for the described work with the above-named prime consultant upon an executed agreement with Palm Beach County.

** Prime's information if an SBE or M/WBE.

Project: 45th Street - Jog Road to E. of Haverhill Road

Project No.: 2003512

Brown & Phillips, LLC.

NAME OF SUB-CONSULTANT FIRM (PRIME if SBE or M/WBE)

Anthony Brown, CEO

(PRINT - NAME & TITLE OF AUTHORIZED REPRESENTATIVE)

BY: Anthony Brown

(SIGNATURE OF AUTHORIZED REPRESENTATIVE)

7/24/07
(DATE)

RECEIVED JUL 25 2007

**LETTER OF INTENT TO PERFORM AS AN
SBE, M/WBE AND/OR SUB-CONSULTANT**

TO: Metric Engineering, Inc.
(NAME OF PRIME CONSULTANT)

2081 Vista Parkway, Suite 310, West Palm Beach, Florida 33411
(ADDRESS)

Note: If Prime is an SBE or M/WBE, address Letter of Intent to "Palm Beach County."

CONTACT PERSON & TITLE:

FROM: Tierra, Inc.
SUB-CONSULTANT (Prime if SBE or M/WBE)

2765 Vista Parkway, Suite 10, West Palm Beach, Florida 33411
(ADDRESS)
561-687-8536 561-687-8570
(TELEPHONE No.) (FAX No.)

CONTACT PERSON: Raj Krishnasamy, P.E.

TITLE: Vice President EMAIL: raj@tierraeng.com

The undersigned intend to perform work in connection with the above project as (check one):
an individual a corporation a partnership a joint venture

B. PALM BEACH COUNTY CERTIFIED SBE OR M/WBE * : YES NO **If YES, Check all that apply:**

* MBE: BL H WBE O(Other)

* SBE: BL H WBE O(Other) White Male

* ATTACH APPLICABLE COPY OF NOTICE OF PALM BEACH COUNTY SBE OR M/WBE CERTIFICATION

The undersigned is prepared to perform the following described work in connection with the project (specify in detail, particular work items or parts thereof to be performed by the sub-consultant) or Prime if SBE or M/WBE:

1. Activity Provided: Geotechnical Services

2. ** SUB-CONSULTANT'S "TOTAL PARTICIPATION" FOR THIS PROJECT : 6.26 %

NOTE: Line 2 shall be the ACTUAL % of Total Project, NOT 100%.

The undersigned will enter into a formal agreement for the described work with the above-named prime consultant upon an executed agreement with Palm Beach County.

** Prime's information if an SBE or M/WBE.

Project: 45th Street - Jog Road to E. of Haverhill Road

Project No.: 2003512

TIERRA, INC.
NAME OF SUB-CONSULTANT FIRM (PRIME if SBE or M/WBE)

Raj Krishnasamy, P.E., Vice President
(PRINT - NAME & TITLE OF AUTHORIZED REPRESENTATIVE)

BY: [Signature] July 24, 2007
(SIGNATURE OF AUTHORIZED REPRESENTATIVE) (DATE)

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
07/02/2007

PRODUCER (305)822-7800 FAX 305-362-2443
Collinsworth, Alter, Fowler, Dowling & French
P. O. Box 9315
Miami Lakes, FL 33014-9315
Anna Ramirez aramirez@cafd.com Ext. #120

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED Metric Engineering, Inc.
13940 S.W. 136 Street
Metric Plaza - Suite 200
Miami, FL 33186

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: Twin City Fire Insurance Co A+ XV	29459
INSURER B: Hartford Casualty Ins: Co A+ XV	29424
INSURER C: Beazley Insurance Co. A- VII	37540
INSURER D:	
INSURER E:	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L LTR	INSRO	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A		GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS MADE <input type="checkbox"/> OCCUR <input checked="" type="checkbox"/>	21UUNLK5938K3	03/01/2007	03/01/2008	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
		GEN'L AGGREGATE LIMIT APPLIES PER: POLICY <input type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC <input checked="" type="checkbox"/>				
A		AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	21UENUU0903	03/01/2007	03/01/2008	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
		GARAGE LIABILITY ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$
B		EXCESS/UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE <input checked="" type="checkbox"/> RETENTION \$ 10,000	21XHUIN9763K3	03/01/2007	03/01/2008	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000 \$ \$ \$
		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? NO If yes, describe under SPECIAL PROVISIONS below				X WC STATUTORY LIMITS OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C		OTHER Professional Liability Claims-Made Form FULL PRIOR ACTS (7/1/76)	V15HET07PNPM	07/01/2007	03/01/2008	\$3,000,000 Each Claim \$6,000,000 Policy Aggregate \$100,000 Ea Claim Deductible

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
Left: 45th Street from Jod Road to Haverhill Road. 2003512

Palm Beach County Board of County Commissioners, a Political Subdivision of the State of Florida, its officers, Employees and Agents are named as additional insured on the General & Auto liability. Retro coverage applies. Retro Coverage is extended to include the effective date of the contract.

CERTIFICATE HOLDER

Palm Beach County Engineering
Public Works Rdwy. Production
Attn: Joan Thurman
160 Australian Avenue
Suite #503
West Palm Beach, FL 33408

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Meade Collinsworth/ZO



IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

PROJECT SCHEDULE

45th St. from Jog Rd. to east of Haverhill Rd.

ID	Task Name	Duration	Start	Finish	Qtr 1, 2006			Qtr 2, 2006			Qtr 3, 2006			Qtr 4, 2006			Qtr 1, 2007			Qtr 2, 2007			Qtr 3, 2007	
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
1	NTP	1 day	Mon 11/3/03	Mon 11/3/03																				
2	Preliminary Engineering/Data Collection	176 days	Mon 11/3/03	Mon 7/5/04																				
3	Field Survey	90 days	Mon 11/3/03	Fri 3/5/04																				
4	Aerial Photog.	30 days	Mon 1/26/04	Fri 3/5/04																				
5	Geotech. Investigation	30 days	Mon 1/26/04	Fri 3/5/04																				
6	Rdwy Typ. Section & Master Plan Submittal	5 days	Tue 2/3/04	Mon 2/9/04																				
7	PBCo Review	15 days	Tue 2/10/04	Mon 3/1/04																				
8	Bridge Typical Section Submittal	5 days	Tue 3/2/04	Mon 3/8/04																				
9	PBCo Review	15 days	Tue 3/9/04	Mon 3/29/04																				
10	Alt. Rdwy Typ. Section & Master Plan Submittal	1 day	Mon 6/14/04	Mon 6/14/04																				
11	PBCo Review	15 days	Tue 6/15/04	Mon 7/5/04																				
12	Phase I (35%)	55 days	Tue 7/6/04	Mon 9/20/04																				
13	35% Roadway & Bridge Plans	20 days	Tue 7/6/04	Mon 8/2/04																				
14	Prelim. Environmental Rpt	20 days	Tue 7/6/04	Mon 8/2/04																				
15	Phase I (35%) Submittal	1 day	Mon 9/20/04	Mon 9/20/04																				
16	PBCo/FDOT Review	30 days	Tue 9/21/04	Mon 11/1/04																				
17	Phase II (65%)	178 days	Tue 11/2/04	Thu 7/7/05																				
18	Prelim Drainage Report	25 days	Tue 11/2/04	Mon 12/6/04																				
19	Parcel Sketches	10 days	Tue 12/7/04	Mon 12/20/04																				
20	65% Roadway, S&PM, Signal and Bridge Plans	85 days	Thu 12/23/04	Wed 4/20/05																				
21	Final Drainage Report	30 days	Sun 3/13/05	Fri 4/22/05																				
22	Final Environmental Report	30 days	Sun 3/13/05	Fri 4/22/05																				
23	Phase II (65%) Submittal	1 day	Thu 4/21/05	Thu 4/21/05																				
24	PBCo/FDOT Review	55 days	Fri 4/22/05	Thu 7/7/05																				
25	Utility Coordination	200 days	Mon 11/8/04	Fri 8/12/05																				
26	Utility Pot Hole	25 days	Mon 5/16/05	Fri 6/17/05																				
27	Permitting	505 days	Mon 4/25/05	Fri 3/30/07																				
28	Phase IV (96%)	134 days	Fri 7/8/05	Wed 1/11/06																				
29	96% Roadway, S&PM, Signal and Bridge Plans	131 days	Fri 7/8/05	Fri 1/6/06																				
30	Quantity Computation Book	25 days	Mon 12/5/05	Fri 1/6/06																				
31	Cost Estimate	17 days	Thu 12/15/05	Fri 1/6/06																				
32	Phase IV (96%) Submittal	1 day	Wed 1/11/06	Wed 1/11/06																				
33	PBCo/FDOT Review	19 days	Wed 1/11/06	Mon 2/6/06																				
34	100% Roadway plans	199 days	Tue 2/7/06	Fri 11/10/06																				
35	Phase V (100%) Submittal	1 day	Mon 11/13/06	Mon 11/13/06																				
36	PBC Review	71 days	Tue 11/14/06	Tue 2/20/07																				
37	Final Roadway Plans	128 days	Wed 2/21/07	Fri 8/17/07																				
38	Final Plans Submittal	1 day	Mon 8/20/07	Mon 8/20/07																				

Prepared By: Metric Engineering, Inc.

Task		Summary		Rolled Up Progress		Project Summary	
Progress		Rolled Up Task		Split		Group By Summary	
Milestone		Rolled Up Milestone		External Tasks			