BOARD OF COUNTY THE RESOLUTION OF COMMISSIONERS OF ST. JOHNS COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA, AUTHORIZING EXPENDITURE OF APPROXIMATELY \$1.8 MILLION DOLLARS OF MONIES RECEIVED FROM JULINGTON CREEK PARTNERS LIMITED PARTNERSHIP PURSUANT PARAGRAPH 6.(D)(e) OF ST. JOHNS COUNTY RESOLUTIONS 93-158, 95-185 AND 97-25, BEING THE RESTATED JULINGTON CREEK DEVELOPMENT ORDER, FOR CONSTRUCTION OF IMPROVEMENTS TO RACETRACK ROAD.

RECITALS

WHEREAS, paragraph 6(D)(e) of St. Johns County Resolution 93-159, as amended by St. Johns County Resolutions 95-185 and 97-25, being the restated Julington Creek Development Order authorizes St. Johns County to expend a designated \$1.8 million dollars received from Atlantic Gulf Communities Corporation or its successors for designated improvement to Racetrack Road or Russell Sampson Road; and

WHEREAS, said \$1.8 million dollars has been transferred to St. Johns County for the above stated purpose; and

WHEREAS, the County Administrator and County Engineer find it proper and in the public interest to expend said monies for continued four laning of Racetrack Road from Bishop Estates Road to the eastern limits of the Julington Creek DRI, a distance of 1.6 miles. Funds should be allocated for design, right of way acquisition, wetland mitigation and construction of said road and intersection improvements.

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA that:

- The above stated Recitals are incorporated herein as Findings of Fact.
- 2. The \$1.8 million dollars received by St. Johns County from Julington Partners Limited Partnership (the successor developer of Atlantic Gulf Communities Corporation) pursuant to paragraph 6(D)(e) of the Julington Creek Development Order as amended by St. Johns County Resolutions 93-159, 95-185 and 97-25, may be expended for improvement of Racetrack Road to the eastern boundary of the Julington Creek DRI to the degree and purposes described in the above Recitals, provided that all applicable State and County purchasing and contracting procedures are fully complied with.

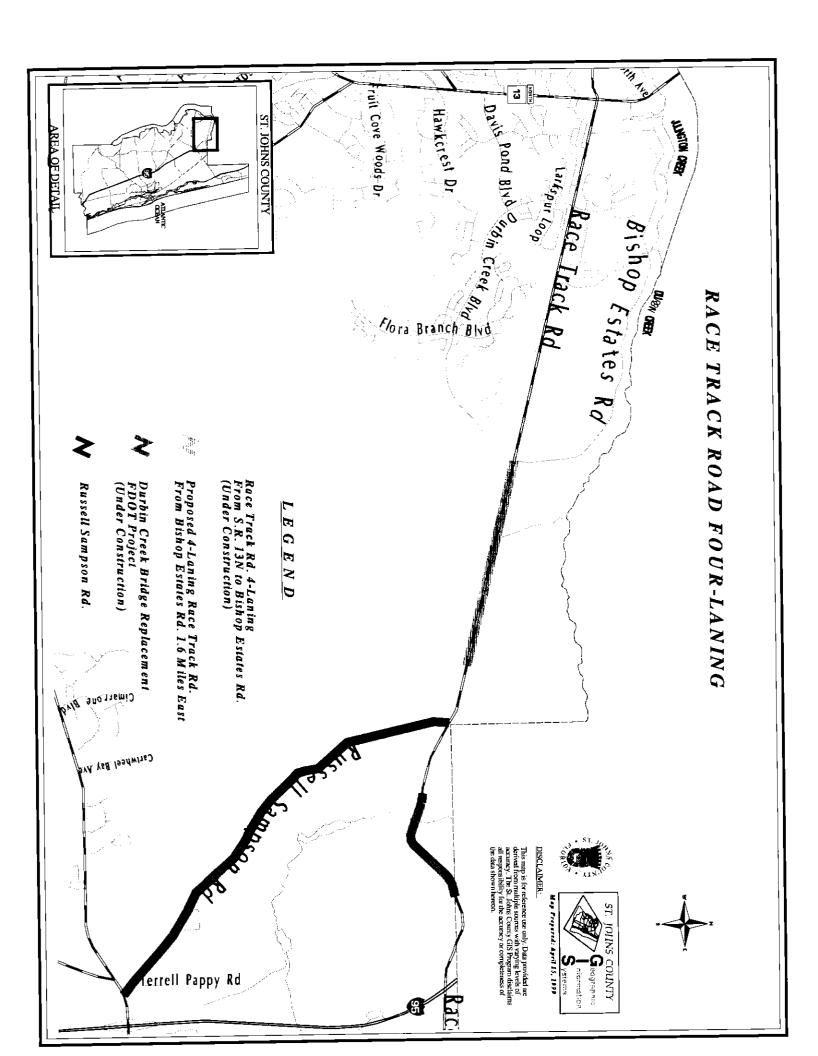
PASSED AND ADOPTED by the Board of County Commissioners of St. Johns County, State of Florida, this 27 day of April , 1999.

OF ST. JOHNS COUNTY, FLORIDA

By: Marc A Jacalone Chairman

ATTEST: CHERYL STRICKLAND, CLERK

Deputy Clerk



BOOK E PAGE 526

Boulevard. As soon as the obligation of the second section of Racetrack Road arises, no further building permits for development within the DRI shall be issued until construction of the improvement of this section has commenced. Such obligation shall arise for the third section when the annual traffic survey projects that the p.m. peak hour level of service on that section will fall below level of service D in the p.m. peak hour within one year. The third section shall be the section that extends from Flora Branch Boulevard to Bishop Estates Road. As soon as the obligation for the third section of Racetrack Road arises, no further building permits for development within the DRI shall be issued until construction of the improvement of this section has commenced. The four-laning of Racetrack Road between State Road 13 and the Flora Branch Boulevard must be completed under all circumstances by the end of Phase II.

deadline set forth in subsection (c) above, the Developer shall place in escrow by December 31, 1995, \$1.8 million, by a construction bond or other acceptable methods, in an appropriate county construction fund for use toward the future paving or other improvement of Russell Sampson Road by the County from Racetrack Road to C.R. 210 or the continued

four-laning of Racetrack Road to the eastern DRI project limits, as determined by County. Under all circumstances, the \$1.8 million shall be placed in escrow by a construction bond or other acceptable methods no later than December 15, 1999. These funds shall be expended for the use set forth above by no later than December 31, 2004.

- shall end, insofar as they relate to Racetrack Road and any intersections along Racetrack Road upon completion of construction of the required four-lane improvement of Racetrack Road described herein, or upon completion of the construction of any section and related intersections of Racetrack Road from S.R. 13 to Bishop Estates Road, as those three sections are described herein.
- E. S.R. 13. The Developer shall cause, if a Community Development District (CDD) is established pursuant to Chapter 190, F.S., and CDD bond funds sufficient to cover the cost of the S.R. 13 improvements are obtained by December 31, 1995, or, if such deadline is missed, the Developer shall be responsible for the four-laning of S.R. 13 from the intersection of Racetrack Road south to Davis Pond Boulevard, subject to the following conditions:

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VIA FACSIMILE AND US MAIL

Principals

James E. England, P.E., Pres. Robert E. Thims, Exec. V.P. Douglas C. Miller, P.E., Exec. V.P. N. Hugh Mathews, P.E., Exec. V.P.

April 22, 1999

Mr. John Bishop, P.E. St. Johns County Engineer P.O. Box 349 St. Augustine, Florida 32085-0349 Fax No (904) 823-2394

RE: Race Track Road Improvements

Subject: Revised Manhour Estimates

Dear Mr. Bishop:

Attached please find our revised manhour estimate for the widening of Race Track Road between Bishop Estates Road and the eastern boundary of the Julington Creek Plantation.

As I am sure you remember, our original proposed price was based upon the project limits extending from Bishop Estates Road past Russell Sampson Road. For the County's convenience we then broke down the scope into two phases; Bishop Estates Road to the eastern boundary of JCP, and eastern boundary of JCP to 0.2 miles past Russell Sampson Road. Since both projects were to be awarded simultaneously and one plan set was to be produced, our proposal included significant savings in comparison to preparing two stand-alone projects, specifically in the areas of plan production and environmental permitting.

As you can see from the following manhour estimate forms we have revised our estimate to include only the widening of Race Track between Bishop Estates and the eastern boundary of the JCP. The product of this effort will be a stand-alone set of construction plans and specifications for this 1.6 mile segment of roadway and associated transitions. Should the County elect to modify our contract prior to the submittal for the ERP to include the addition 0.7 miles of widening, we will be able to provide a credit for the saved expense of producing two plan sets. This credit would be approximately \$13,731.

Please call if you have any questions.

Sincerely,

England-Thims & Miller, Inc.

left Crapmond, P.E.

Vice President

cc: Joe Birch

EXHIBIT C

WPI No.: Consultant Name:

FAP No .: State Project No.:

England, Thims & Miller, Inc.

Robert A. Mizeli, P.E.

Estimators Name:

From:

Name of Job: Race Track Road

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my of JCP tes Road

Date: 22-Apr-99 1.6miles

Length:

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East Bounda	Bishop Estate	Dare Herri

COMBINED OVERHEAD COMPUTATIONS

(a) Overhead Additives:

(a1) Combined O-H Percentage

Total Activity Salary Costs

TOTAL CONTRACT COST COMPUTATIONS

\$62,986.28

160.70%

Fringe Benefit % Adm. & General % 55.33% 105.37%

Past Design Services

\$180,625.75

Final Design Plans

3100,748.69 322,426,79

857,450,28

Presminary Engineering

SALARY RELATED COSTS

Environmental Services/Permits

(e1) combined 0-H % 160,70%

(b) Operating Margin: Subtotel (Salary + Overneed) (a2) Combined O-M Cost

> \$184,205.23 \$101,218.95

Subtotal (Salary Retated Costs) (c) Misc/Out-of Pocket Expenses (b2) Operating Margin Cost (b1) Operating Margin Percentage

\$197,107.83

\$18,482.18

\$180,625.75

318,420.52

10.00%

Subtokal (Cost Elements of Basic Activities)

(d) Subcontract thems Design Survey

\$8,227.75 924,361,81 \$28,600.00 39,415.00 32,450.00

Weiland Identification and Miligation (ERS)

Environmental (Enos) Fema (ENIA)

Geotechnical/UNIVERSAL)

SOM Maps

\$274,682.29 \$6,500,00

Total Earlingted Amount Dalo: 1001 12 1779

(PLEASE SIGN) Prepared By

ENGLAND THIMS & MILLER >

66/22/40 11:28

SK LIST

A. ROADWAY PLANS PACKAGE	HIGHWAY TASK LIS
SUBACTIVITY:	KLIST
1 - DESIGN ANALYSIS	

TASK	유	UNITS		SHEETS	HOURS	HOURS	ZESAXX
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Typical Section Package	LS	1	12		-		
2. Geometrics	LS	1	14		14	7	
	LS	i					
	LS						By RMA
	LS						By RMA
	LS	1	39		39	6	
	LS		20		20	6	
8. Contract File (Set-up & Maintain)	LS		10		10	0	0 Includes Progress Reports
9. Computation Book & Quantities	ĿS		80		80	14	
·	LS						
	LS		21		21		
SUB-TOTAL				0	196	35	
12. Quality Control	LS	1	10		10	w	
	LS		16		10		
ı	ΕA	3	8		24		
15. Progress Meetings	ΕA	tu	4		12		
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BASIS	A. ROADWAY PLANS PACKAGE
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	0					EA	1	5
	0	0				EA	Drainage Design Rpt.	ю
	0	0				ΕA	Prepare of Bridge Hydraulics Rp	ا ھ
	0	0				LS	Design of Special Drainage Syste	7.
	24	48		24	2	EA	Design of Retention/Detention Fa	တ
						ıs	Design of Storm Sewers	Ģ.
						LS	Interchange Drainage Design	4.
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	6	24		24	1	เร	Design of Cross Drains	<u> </u>
REMARKS	HOURS	HOURS	SHEETS	UNIT	UNITS	OF ESTIMATE	TASK	

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3 of 10

TASK
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HIGHWAY : SUBACTIVITY: 3 - ROADWAY PLANS

ACTIVITY:	A. ROADWAY PLANS PACKAGE	NS PACKAGE		SUBACTIVITY:		3 - ROADWAY PLANS	Y PLANS
TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	HOURS	REMARKS
1 Kov Man	Sheet	_	16	1	16	14	
	Sheet	-1	8	0.5	8	6	
l l	Sheet	1	12	0.5	12	12	Drafting Only
	Sheet	8	44	8	352	264	1" = 40' Plan, 1" = 5' Prof.
1	Sheet						1" = 20' Plan
- 1	Sheet						
7. Back of Sidewalk Profiles	Sheet						
8. Special Profiles	Sheet		8	1	8	6	
1	Sheet	2	16	_	32	10	
·	Sheet			-1	0	0	0 By Universal
- 1	Per Section	85	4	22	340	255	1" = 10' Horiz., 1" = 5' Vert.
- 1	Sheet	1	24	1	24	16	
				36	792	585	
13. Quality Control	S	_	40		40	8	
	LS		40		40		
15. Field Reviews	EA	3	8		24		
16. Progress Meetings	EA	3	4		12		
17.							
18.							
TOTAL				36 _	908	593	
20.30							

Αςτινίτγ:	A. ROADWAY PLANS PACKAGE	ANS PACKAGE		SUBACTIVITY		4 - DRAINAGE PLANS	SE PLANS
TASK	BASIS OF ESTIMATE	NO, OF UNITS	HOURS/ UNIT	NO. OF SHEETS	HOURS	CADD HOURS	REMARKS
1. Drainage Map	Sheet	3	20	3	60	45	1" = 100"
	EA	12	4_	2	48	36	4 per sheet
	LS	_	10	0.5	10	8	
l	Sheet	2	16	0.5	32	24	
	Per Section	11	2	4	22	17	4 per sheet
	Sheet	1	24	0.5	24	18	
. 1	Sheet				0	0	
8. Retention/Detention Plans	Sheet	2	48	2	96	72	
9 Retention/Detention X-Sections	Per Section	6	2	₃	12	8	3 per sheet
10. SWPPP	Sheet	1	2	0.5	2	2	
	Sheet	1	8		æ	u	
SUB-TOTAL				17	314	234	
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TOTAL				17	346	235	

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						Sheet	8. Temporary Signal	
						Sheet	7. Pavement Marking/Signing Deta	_
	72	96	4	24	4	Sheet	6. Plan Sheets	_
	6	8	0.5	6		Sheet	5. Tabulation of Quantities	r
	9	12		12		Sheet	4. Typical Details	
	-1 68	24	0.5	24		Sheet		· -
	6	8		8	1	Sheet	2. Typical Sections	_
		20		20	-	LS	Traffic Control Plan Design Analy	
						ESTIMATE		
REMARKS	CADD	TOTAL HOURS	NO. OF	HOURS/	NO. OF	BASIS OF	ТАЗК	
5 - TRAFFIC CONTROL PLANS	5 - TRAFFIC		SUBACTIVITY:		ANS PACKAGE	A. ROADWAY PLANS PACKAGE	ACTIVITY:	

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			48 1" = 40" Pran, 1" = 5 Fronte					REMARKS			6 - UTILITIES/RAILROADS

5. Utility Relocation Agreements 4. Prepare Railroad Crossing Detail

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SUB-TOTAL

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8. Utility Meetings

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Supervision Quality Control

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TOTAL

6 - UTILITIES/RAILROADS

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ACTIVITY:	A. ROADWAY PLANS PACKAGE	INS PACKAGE		SUBACTIVITY:		7 - ENV. SEI	7 - ENV. SERVICES/PERMITS
TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
	20						By ERS
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2. Agency Coordination (All Phases	S		8		8		By EBG
3. Establish Wetland Jurisdiction Lin	LS						By ERS
4. Agency Field Review	EA						By ERS
	-S	_	64		60 4	26	
& Fill Permit Application							
6. Prepare MSSW Permit Application	LS		48		48	19	
7. Prepare Coast Guard Navigation	LS						
Permit Application							
8. Prepare NPDES/EPA Permit App	LS	1	32		32	13	
9. Prepare DNR/CCL Permit App.	SJ						
10. Prepare Local Permits	LS		16		16	6	
- 1	LS	2	10		20	3	
	LS				0	0	
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14. Quality Control	LS	1	14		14	3	
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GNING AND PAVEMENT MARKINGS	HIGHWAY TASK LIST
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REMARKS	HOURS	HOURS	NO. OF SHEETS	HOURS/ UNIT	NO. OF UNITS	BASIS OF ESTIMATE	TASK	ı
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HIGHWAY PAGE

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10 OF ____10_

MISCELLANEOUS & OUT-OF-POCKET EXPENSES

Name of Job:

Race Track Road

Consultant Name: ENGLAND, THIMS & MILLER, Inc.

WPI No.: State Project No.:

Bishop Estates

From: To:

East Boundary of JCP

Leagth:

1.6 miles

FAP No.:	Estimators Name:	Robert A. Mizell, P.E.	Length: Date:	1.6 miles 22-Apr-99	
TEM DESCRIPTION	N			ITEM SUB- TOTAL	ITEM TOTAL
Aerial Photography:				N/A	\$0.00
Drafting Medium					
(Mylar) (Velm)		74 @ \$6.00 per sheet 296 @ \$1.50 per sheet		\$444.00 \$444.00	\$888.00
Reproduction (Blue	Line, Xerographic & Photocopies)				
Costs	Blue Line Xerographic Photocopy	Sheets 2,368 Ø \$0.36 per sheet 148 Ø \$10.50 per sheet 1,480 Ø \$0.20 per sheet		\$852.48 \$1,554.00 \$296.00	\$2,702 <u>.</u> 48
Travel From:	Jacksonville				
To Project:	Full 24 Hour Day Per Deim Partial Day Per Deim Transport - (Comm.) - (POV) - (Rental)	Trips x people x people x people 3 x 40 mlles x miles x days	x \$50.00 per day x \$6.00 per day x per trip x \$0.32 per mile x per day	\$0.00 \$0.00 \$0.00 \$37.80 \$0.00 \$0.00	
To St Augustin	Full 24 Hour Day Per Deim Partial Day Per Deim Transport - (Comm.)	Trips x people x people x people	x \$50.00 per day x \$6.00 per day x per trip	\$0.00 \$0.00 \$0.00	
	- (POV) - (Rental)	7 x 80 miles x miles x days	x S0.32 per mile x per mile x per day	\$176.40 \$0.00 \$0.00	
To Lake City:	Full 24 Hour Day Per Deim Partial Day Per Deim Transport - (Comm.) - (POV) - (Rental)	Trips x people x people x people x miles x miles x days	x per day x per day x per trip x per mile x per mile x per day	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$214.20
Telephone & Fax Mail Deliverles CADD/Computer	(10	months @ \$10.00 per month package @ \$8.75 per package hours @ \$10.00 per hour)		\$100.00 \$87.50 \$12,490.00	\$12,677 ₋ 50
	TOTAL MISCELLANEOUS & OUT-OF-F	POCKET EXPENSES		J	\$16,482.18

John A. Crame

ATTN: John Bishop, P.E. RE: Race Track Road Attached			
E SENDING YOU Attached	RE:	Race Track Road	
Attached Under separate cover via U.S. Mail FEDEX Courier Other LLOWING ITEMS Shop Drawings Prints Plans Samples Specifications Copy of letter Change Order DESCRIPTION 3/26/99 1			
Attached Under separate cover via U.S. Mail FEDEX Courier Other LLOWING ITEMS Shop Drawings Prints Plans Samples Specifications Copy of letter Change Order DESCRIPTION 3/26/99 1			
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U.S. Mail	RE SENDING YOU		
U.S. Mail	☑ Attached ☐ Under separate cover via		
☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications ☐ Copy of letter ☐ Change Order ☐		☐ Other	
Copy of letter	FOLLOWING ITEMS		
3/26/99 1 Inside Julington Creek Plantation Fee Proposal and Scope of the Proposal and Sco			l Specifications
RE TRANSMITTED as checked below: For approval	COPIES DATE NO.	DESCRIPTIO	N
☐ For approval ☐ Approved as submitted ☐ Resubmit copies for approval ☐ For your use ☐ Approved as noted ☐ Submit copies for distribution ☐ As requested ☐ Returned for corrections ☐ Return corrected prints ☐ For review and comment ☐ FOR BIDS DUE	3/26/99 1 Inside Julington Cree	ek Plantation Fee Pro	posal and Scope of
☐ For approval ☐ Approved as submitted ☐ Resubmit copies for approval ☐ For your use ☐ Approved as noted ☐ Submit copies for distribution ☐ As requested ☐ Returned for corrections ☐ Return corrected prints ☐ For review and comment ☐ FOR BIDS DUE			
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COPY TO:File

GIGNED Cliffy Larsen

WPI No.: Consultant Name:

FAP No.: State Project No.:

England, Thims & Miller, Inc.

Estimators Name:

Robert A. Mizell, P.E.

From: Name of Job:

Race Track Road Bishop Estates Road East Boundary of JCP

1.6miles Date: 29-Mar-99

Length:

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TOTAL MANHRS & TOTAL COST		F. Post Design Services	E, Landscaping	D. Lighting	C. Signalization Plans	B. Signing and Pavement Markings	7. Environmental Services/Permits	6. Utilities/Railroads	Traffic Control Plans	Drainage Plans	Roadway Plans	2. Drainage Analysis	1. Design Analysis	A. Roadways Plans Package			No./ACTIVITY	
113			_		_		=======================================	7	_	17	45		_	<u>.</u>	HOURS	MAN		PRIN
		\$78.75	\$78.75	\$78.75	\$78.75	\$78.75	\$78.75	\$78.75	\$78.75	\$78.75	\$78.75	\$78.75	470.70	#70 7E	RATE	НОПЯТУ		PRINCIPLE
341	_	_	_	_	_	19	23	20	25	- 5	135	25	1	2	HOURS	MAN	MANAGER	PROJECT
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	11	-	-								
						(a1) combined O-H %	Fringe Benefit %	Adm. & General %			-
						160.70%	55.33%	105.37%		COMPUTATIONS	COMBINED OVERHEAD
Subtotal (Cost Elements of Basic Activities)	(c) Misc./Out-of Pocket Expenses	Subtotal (Salary Related Costs)	(b2) Operating Margin Cost	(b1) Operating Margin Percentage	(b) Operating Margin:	Subtotal (Salary + Overhead)	(a2) Combined O-H Cost	(a1) Combined O-H Percentage	(a) Overhead Additives:	Total Activity Salary Costs	TOTAL CONTRACT COST COMPUTATIONS
\$183,376.82	\$15,922.18	\$167,454.64	\$15,223.15	10.00%		\$152,231.49	\$93,838.13	160.70%		\$56,393.36	

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Preliminary Engineering

SALARY RELATED COSTS

Final Design Plans

Environmental Services/Permits

\$16,322.60 596,216,74 \$54,915.29

\$0.00

Post Design Services

\$167,454.62

Note: Proposal based on being contracted simultaneoulsy with Race Track Road Improvements outside the JCP

(d) Subcontract Items Design Survey

\$26,600.00 \$24,381.51

Total Eslimated Amount

Fema (EMA)

\$260,951.18

\$6,500.00 \$2,450.00

Environmental (Enos)

Welland Identification and Mitigation (ERS)

\$8,227.75 \$9,415.00

Geolechnical(UNIVERSAL)

R/W Maps

. (PLEASE SIGN) Prepared By:

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PAGE

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ACTIVITY:

A. ROADWAY PLANS PACKAGE

SUBACTIVITY:

1 - DESIGN ANALYSIS

	35	229	0				TOTAL	l
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							7.	17.
							3.	16
		12		4	3	EA	5. Progress Meetings	5
		24		8	3	EA	4. Field Reviews	14
		9		9	_	LS	3. Supervision	13
	u	9		9	1	LS	2. Quality Control	12
	32	175	0		÷		SUB-TOTAL	
		21		21	1	LS	Special Provisions	<u> </u>
						LS). C.E.S. / Summary of Pay Items	10
	14	70		70	1	LS	Computation Book & Quantities	9
0 Includes Progress Reports		10		10		LS		<u>,</u>
	4	14		14	1	LS	Pavement Design Package	7.
	6	39		39		LS	Traffic Analysis	Ġ.
By RMA						LS	DTM Model Development	Ċ
By RMA						LS	Field Survey - Dala Reduction	4.
						LS	Update Access Management	ယ
	7	14		14		LS	Geometrics	12
		7		7	1	LS	Typical Section Package	
						ESTIMATE		
REMARKS	CADD HOURS	TOTAL HOURS	NO. OF SHEETS	HOURS/ UNIT	NO. OF	BASIS	TASK	
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ACTIVITY: A. ROADWAY PLANS PACKAGE SUBACTIVITY: 2 - DRAINAGE ANALYSIS

	20.	19.	18.	17.	16.	15.	14. Supervision	13. Quality	12.	11	10. Pond S	9. Drainag	8. Prepare	7. Design	6. Design	5. Design	4. Intercha	3. Design	2. Design	1. Design			
TOTAL							ision	Quality Control		SUB-TOTAL	Pond Sites, Rpt. (update)	Drainage Design Rpt.	Prepare of Bridge Hydraulics Rp	Design of Special Drainage Syste	Design of Retention/Detention Fa	Design of Storm Sewers	Inlerchange Drainage Design	Design of Outfalls Ditches	Design of Roadway Ditches	Design of Cross Drains		TASK	
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																						REMARKS	

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY:

3 - ROADWAY PLANS

	586	900	36				TOTAL
							,
		12		4	w	EA	Progress Meetings
		24		8	3	EA	Field Reviews
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	8	40		40		LS	Quality Control
	578	784	36				SUB-TOTAL
	18	24		24		Sheet	Baseline Control/Curve Data
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By Universal	0	0				Sheet	Soil Data Sheet
	10	32		16	2	Sheel	Miscellaneous Construction Deta
	6	8		CO.		Sheet	Special Profiles
						Sheet	Back of Sidewalk Profiles
						Sheet	Intersection Profiles
1" = 20' Plan						Sheel	Intersection Details
1" = 40' Plan, 1" = 5' Prof.	264	352	8	44	8	Sheel	Plan & Profiles
12 Drafting Only	12[12	0.5	12	1	Sheet	Summary of Quantities
	6	8	0.5	8		Sheet	Typical Section & Notes
	7	8	<u> </u>	8	_	Sheel	Key Map
						ESTIMATE	
REMARKS	HOURS	TOTAL HOURS	NO. OF SHEETS	HOURS/ UNIT	NO. OF	BASIS OF	TASK
				8			

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY:

4 - DRAINAGE PLANS

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	-						18.
							17.
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S.	8			8		Sheet	11 Box Culvert Data Sheet
2	2		0.5	2		Sheet	10. SWPPP
9 3 per sheet	12		3	2	6	Per Section	9. Retention/Detention X-Sections
72	6	96	2	48	2	Sheet	8. Retention/Detention Plans
0	0					Sheet	
0	2	12	0.5	12	_	Sheet	6. Erosion Control Detail Sheet
17 4 per sheet	2	22	4	2	11	Per Section	5. Lateral Ditch Cross-Sections
24	12	32	0.5	16	2	Sheet	
83	0	10	0.5	10	_	LS	3. Summary of Drainage Structures
36 4 per sheet	OB	48	2	4	12	EΑ	2. Drainage Structures
45 1" = 100"	0	60	3	20	3	Sheet	Drainage Map
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ACTIVITY: A. ROADWAY PLANS PACKAGE SUBACTIVITY:

5 - TRAFFIC CONTROL PLANS

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TOTAL									Supervision	Quality Control		SUB-TOTAL	Temporary Signal	Pavement Marking/Signing Detail	Plan Sheets	Tabulation of Quantities	Typical Details	General Notes/Const. Sequence	Typical Sections	Traffic Control Plan Design Analy		TASK
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<u>...</u> 12 5 18 17 ㅎ Coordination with Utilities Prepare Utility Adjustment Sheets Utility Meetings Utility Relocation Agreements Prepare Railroad Crossing Detail Initial Contact Supervision Quality Control TASK ACTIVITY: SUB-TOTAL A. ROADWAY PLANS PACKAGE **ESTIMATE** BASIS OF Sheet ΕÞ EΑ ΕA ΕA S S NO. OF UNITS 8 HOURS/ UNIT Ф NO. OF SHEETS SUBACTIVITY: æ 8 TOTAL HOURS 108 32 64 12 12 0 0 S 6 - UTILITIES/RAILROADS CADD HOURS 48 8 0 1" = 40' Plan, 1" = 5' Profile REMARKS

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TOTAL

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14 17 6 ig ig 13 10 ø В 7. 6 Ģ. 4 ω Ŋ 8 Supervision Quality Control CES/Summary of Pay Items General Notes Special Provisions Service Point Detail Metal/Concrete Pole Detail Sign Detail Sheet Special Marking Details Cross-Section & Layout Guide Sign Worksheets Plan Sheets Tabulation of Quantities Key Sheet TASK ACTIVITY: SUB-TOTAL B. SIGNING AND PAVEMENT MARKINGS ESTIMATE EA Detail EA Sign Section BASIS OF Sheet Sheet Sheet Sheet Sheet ΕÞ F S S S S NO. OF HOURS/ UNIT 24 8 4 6 တ NO. OF SHEETS SUBACTIVITY: 0.5 0.5 O TOTAL HOURS 112 96 0 œ 6 ြ 0 0 0 0 0 0 NONE CADD HOURS 89 77 0 0 Double Plan Sheets 1" = 40" REMARKS

TOTAL

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ACTIVITY: A. ROAL

A. ROADWAY PLANS PACKAGE

SUBACTIVITY:

7 - ENV. SERVICES/PERMITS

TOTAL	16.	15. Supervision	14. Quality Control	SUB-TOTAL	14 FEMA No-Rise Certification	13. Miligation Plans (All Phases)	12. Mitigation Design	11. Mitigation Coordination and Mtgs	10. Prepare Local Permits	9. Prepare DNR/CCL Permit App.	8. Prepare NPDES/EPA Permit App	Permit Application	7. Prepare Coast Guard Navigation	6. Prepare MSSW Permit Application	& Fill Permit Application	Prepare Wetland Resourse/Dred	4. Agency Field Review	3. Establish Wetland Jurisdiction Lin	2. Agency Coordination (All Phases	Preliminary Field Review		TASK	
		LS	LS	<u>F.</u>	LS	Sheet	LS	gs LS	LS	LS	pp LS		on LS	tio LS		.d LS	EA	in LS	LS	LS	ESTIMATE	BASIS	
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					By EMA	By ERS	By ERS										By ERS	By ERS		By ERS		REMARKS	

PAGE10	OF	10
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MISCELLANEOUS & OUT-OF-POCKET EXPENSES

Name of Job:

Race Track Road

Consultant Name: ENGLAND, THIMS & MILLER, Inc.

WPI No.:

State Project No.:

From:

Bishop Estates

Ta:

East Boundary of JCP

Length:

1.6 miles

FAP No.: 26-Mar-99 Date: Robert A. Mizell, P.E. Estimators Name: ITEM ITEM SUB-ITEM DESCRIPTION TOTAL **TOTAL** N/A Aerial Photography: \$0.00 **Drafting Medium** \$444.00 74 @ \$6.00 per sheet (Mylar) \$444.00 296 @ \$1.50 per sheet (Velm) \$888.00 Reproduction (Blue Line, Xerographic & Photocopies) Sheets Costs: \$852.48 per sheet 2,368 @ \$0.36 Blue Line \$1,554.00 148 @ \$10.50 per sheet Xerographic \$296.00 1,480 @ \$0.20 per sheet Photocopy \$2,702.48 Jacksonville Travel From: Trips To Project: \$0.00 \$50.00 per day people Full 24 Hour Day Per Deim \$0.00 \$6.00 per day people Partial Day Per Deim per trip \$0.00 Transport - (Comm.) people \$0.32 per mile \$37.80 40 miles - (POV) per mile \$0.00 miles - (Rental) \$0.00 days per day Trips To St Augustine: \$0.00 \$50.00 per day people Full 24 Hour Day Per Deim \$0.00 \$6.00 per day people Partial Day Per Deim per trip \$0.00 Transport - (Comm.) people \$176.40 80 miles \$0.32 per mile - (POV) \$0.00 per mile miles - (Rental) \$0.00 per day days Trips To Lake City: \$0.00 people per day Full 24 Hour Day Per Deim \$0.00 per day people Partial Day Per Deim \$0.00 per trip people Transport - (Comm.) per mile \$0.00 miles - (POV) miles per mile \$0.00 - (Rental) \$0.00 days per day \$214.20 \$100.00 per month) 10 months @ \$10.00 Telephone & Fax \$87.50 \$8.75 per package) 10 package @ Mail Deliveries \$11,930.00 @ \$10.00 per hour) 1,193 hours CADD/Computer \$12,117.<u>50</u> \$15,922.18 TOTAL MISCELLANEOUS & OUT-OF-POCKET EXPENSES

	Date:	
GN) Prepared By:	Date.	

SURVEY ESTIMATION CHART

Consultant:Robert M. Angas AssociatesName of Job:Race Track RdFrom:Bishop Estates RdTo:East Boundary ofJulington Creek Plantation

Estimators(Name/date): J.L. Reynolds , 3/23/99 Length: 1.6 mi

# DAYS PER PARTY SIZE @ 8 HOURS PER DAY (THREE PERSON CREW)	PRIME. CREW DAYS	COMMENTS
Baseline Control Alignment Bench Levels Reference Points Side Street Intersections Topography Regular Roadway X-sections Underground Utilities Special X-secs Stake-out for Borings Bridge Survey Drainage Survey Hydrographic Survey Monumentation Property Ties Section-Line Ties Supplemental Survey Aerial Target Placement	1.0 1.0 2.0 2.0 1.0 7.0 7.0 4.0	C/L S/O 1000' intervals Offsite Drainage Offsite Mitigation*
Excessive Travel @ x (Cost per day) \$		_\$
Survey Total Days X (Cost Per Day) \$ 760.00 X (Cost Per Day) \$	35.0	<u>\$ 26,600.00</u> <u>\$</u>
Misc. Expenses		\$
Total Survey Cost		\$ 26,600.00

(Please Sig	gn)Prepared by:	Date: <u>3/23/99</u>
Comments: _	* Reimbursable item estimate only.	

RIGHT OF WAY MAPPING ESTIMATE CHART

CONSULTANT Robert M. Angas Associates, Inc.
C.R.NO. 5 FROM Biship Estates Rd TO East Boundary of JCP COUNTY St. Johns

ESTIMATOR/				olds		/	3/23/	/99	LENGT	H <u>1.</u> 6	<u>5 mi</u>	
	PROJECT MANAGER	(PLS)	PROFESS:	IONAL URVEYOR		ATA ESSOR	OP	CADD PERATOR	CLERICAL		TOTAL	AVG. RATE
ACTIVITY	HOUR	RATE	HOUR	RATE	HOUR	RATE	HOUR	RATE	HOUR	RATE		
R/W_CONTROL SURVEY	-	_	28.0	25.00	35.0	16.58	238.0	13.45				
R/W MAP			7.0	25.00	14.0	16,58	70.0	13,45	ļ			•
MAINTENANCE MAP			_									
ROADWAY CORRIDOR MAP												<u> </u>
RIGHT OF WAY											_	
LEGAL DESCRIPTIONS			7.0	25.00			22.0	13.45				
TITLE SEARCH	_	_	_									
DATA		<u> </u>	28.0	25.00	88.0	16.58						
PROCESSING TOTAL (H X R)	_		70.0	1750.00	137.0	2271.46	330.0	4438.50				
	<u> </u>		<u> </u>	 -		<u> </u>		<u> </u>	بخ	0 450	96	
Total Acti	lvity Werbe	Salar ad Ac	ry Cos Iditia	sts ves:					=\$	8,459	. 30	
(1	L) Adr	ninist	rativ	ve & G	enera	l <u>162</u>		ે કે <u>.</u>	=\$	<u>13,705</u>	<u>.14</u>	
(2	2) Fr:	inge I	Benef:	its				_ [%]	=\$_ <u></u> =\$	22,165	.10	
Subtotal	(Salai	בא פי ה	verne	ead) r_Oper	ating	Marqi	n: 10	ક	=\$	2,216		
Subtotal	(I/ Do (Sala:	rv Re	lated	Costs)			_	=\$	<u>24,381</u>	<u>.61 _</u>	
(c) I	Direct	t Rein	nbursa	able (Out-O	f-Pock	tet)		=\$			
Subtotal	(Cost	Eleme	ents i	Appl.	to Ba	sic Ac	tivi	ties)	=\$ <u></u>	<u>24,381</u>	<u>.61</u>	
(d) s	Subcoi	ntract	: Ite	ms					=\$ =\$	26,600	0.0	
(e) (Other	Lump	Sum (Cost_ <u>S</u>	<u>urvey</u>				_ Y	207000		
TOTAL LUM	P SUM	FEE							=\$ <u></u>			
TOTAL MAX	IMUM :	LIMIT	ING F	EE					=\$	50,981	61	
PREPARED :	BY:			TGNATU	RE			I	DATE:	3/23/99		



Offices In:

- Jacksonville
- · Daylona Beach
- DeBary
- St. Augustine
- Orlando
- Gainesville
- Fort Myors
 Rockledge
- · West Paint Boach

March 24, 1999

England, Thims & Miller, Inc. 3131 St. Johns Road South Jacksonville, Florida 32216

Attention:

Mr. Rob Mizell, P.E.

Subject:

SUBSURFACE EXPLORATION PROPOSAL

Racetrack Road Project, Bishop Estates to Julington Creek Plantation

St. Johns County, Florida UES Proposal No. 99J-106R

Dear Mr. Mizell:

As per your request, Universal Engineering Sciences (UES) is pleased to submit the following proposal for performance of a subsurface exploration for the referenced project. The proposed development is expected to consist of the improving of the existing paved roadway.

SITE AND PROJECT DESCRIPTION

The subject project currently consists of about 8,476 linear feet of two lane paved roadways between Bishop Estates Road and Julington Creek Plantation. We understand the project will consist of widening the existing roadway to four lanes. The proposed widening will occur on both sides of the existing roadway. The project site is located within a rural/residential area within the northern section of St. Johns County. We understand that two ponds will be needed for the proposed roadway improvements. In addition, one culvert will be widened.

OBJECTIVE

The purpose of this investigation is to characterize the site to evaluate the proposed pavement section, foundation soils and groundwater conditions as they relate to the proposed roadway improvement. An evaluation of the subsurface conditions will be made to provide foundation design criteria to include subgrade preparation, pavement design criteria, pond subsurface conditions, culvert foundation design, and estimation of seasonal

high water level.

STAFFING PLAN

Mr. Jeffrey Pruett, P.E., Geotechnical Manager will have responsible charge and availability of all manpower resources of the St. Augustine office. Mr. Pruett will coordinate all requests for services with your firm as needed. Mr. Pruett will direct and review the activities of the Geotechnical Project Manager and Project Engineers which will include:

- Rick G. Kushner, P.E.
 District Manager
- Ken Hill, P.E.
 Project Engineer
- Lesli M. Lewis, P.E.
 Senior Engineer

Individual qualified professional project engineers, engineering technicians and office personnel will be assigned to each work item authorized according to the skill level required to perform the work in a technically competent/cost effective manner.

SUMMARY OF WORK EFFORT

Prior to developing this proposal, we visited the project site and spoke with Mr. John Bishop, P.E., in order to estimate the work effort. In this regard the work effort required to perform the geotechnical services for this project was estimated on the basis of the length of the roadway and drainage improvements and may be summarized as follows:

Roadway

Roadway borings and laboratory testing will be performed; we estimate a total of 370 linear feet of roadway auger borings will need to be performed on both sides of the existing roadway.

Field Investigation - Roadway

The soils investigations for roadways shall include as required by the project needs:

- One (1) 5 foot auger boring per 300 feet per lane of widening int he proposed roadway areas.
- One (1) 10 foot auger boring per 1,000 feet per lane of widening of alignment within the proposed paved roadway widening areas.

- Soil samples for laboratory soil testing will be obtained as deemed appropriate.
- Review USGS and SCS maps to identify areas of organic soils.
- Determine the vertical and horizontal extent of compressible strata (i.e. muck, peat, clay, etc.).

II. Laboratory Testing

All laboratory testing will be performed in accordance with Florida Sampling and Testing Methods or ASTM or by related directives. Laboratory testing will include the following as required by the needs of the project.

- 1. Organic Content (FM 1-T 267)
- 2. Moisture Content (FM 1-T 265)
- 3. Sieve Analysis (FM 1-T 88)
- 4. Particle Size Analysis with hydrometer (FM 1-T 88)
- 5. Specific Gravity (FM 1-T 100)
- 6. Torvane Sensitivity
- 7. Atterberg Limits (FM 1-T 216)
- 8. Corrosion Series (BM&R 5/20/76)
- 9. Limerock Bearing Ratio (FM 5-515)

QUALITY CONTROL PLAN

As appropriate, the following procedures will be followed to ensure accurate and complete work products for our geotechnical investigation.

- The project engineers will check field and laboratory test data as they are completed. Original data sheets will be maintained in the project file.
- 2. Calculations will be checked by a senior engineer/project manager other than the



- originator. Minor submittal/transmittals will be reviewed by the project manager or a senior 3. engineer other than the originator.
- Report and drawings will be checked by the originator and division manager/project 4. manager for accuracy and completeness.
- Major reports and drawings for submittals will be reviewed by the principal-in-charge. This fresh review will be incorporated into the work products as 5. appropriate. For this contract we have specifically designated Mr. Rick Kushner, P.E. as Principal-in-Charge and/or Senior Technical Reviewer.

SCOPE OF SERVICES

In order to accomplish the above objective, we propose the following scope of services:

- Perform 40 auger borings at approximately 300-foot intervals, each to a 1. depth of 5 feet below grade on either side of the existing road.
- Perform 16 auger borings at approximately 1,000-foot intervals, each to a depth of 10 feet below grade on alternative sides of the proposed road. 2.
- Two (2) 30 foot SPT borings in the proposed culvert widening areas. 3.
- Four (4) 20 foot auger borings with adjacent permeability tests in the 4. proposed pond areas.
- Three (3) roadway cores and auger borings in the existing paved areas. 5.
- Measure 24 hour stabilized groundwater table readings in each bore hole. 6.
- Perform fifteen (15) minus 200 sieve, four (4) organic content and seven (7) moisture content tests to aid in determining individual strata characteristics. 7.
- Perform 16 Limerock Bearing Ratio (LBR) tests to aid in determining in-situ 8. subgrade suitability.
- Perform two (2) corrosion series tests to determine the corrosivity of the 9. subsurface conditions.
- Prepare a report documenting the results of our field and laboratory exploration and presenting our evaluations and recommendations relative to 10.



the stated objectives.

BUDGET AND SCHEDULING

It is proposed that the fee for the performance of the above-outlined services be determined on a not to exceed basis, in accordance with our attached Schedule of Services and Fees. Copies of our Schedule of Services and Fees and General Conditions are enclosed herewith and incorporated by reference into this proposal. On the basis of the estimated quantities and the Schedule of Services and Fees, it is estimated the total fee will be \$9,4156.00.

We anticipate that the field investigation could be started within five (5) working days following your authorization to proceed. Completion of the field work and preparation of our engineering report would require about 3 to 4 weeks.

CLOSURE

It is our pleasure to submit this proposal to you. To authorize this investigation, please sign and return a copy of this proposal to our office. Should you have any questions or need further services beyond the scope detailed herein, please do not hesitate to contact the undersigned.

Respectfully submitted,

UNIVERSAL ENGINEERING SCIENCES

Jeffrey S. Pruett, P.E.

Branch Manager

Rick G. Kushner, P.E.
District Manager

JSP/RGK/gw



SUBSURFACE EXPLORATION SCHEDULE OF SERVICES AND FEES

Racetrack Road Project, St. Johns County, Florida UES Proposal No. 99J-106R March 24, 1999

Description	Estimated Quantity	<u>Unit</u>	Unit Price	Total Price
	ICAL ENGINE	ERING SER	VICES	
Seotechnical Exploration				
Mobilization of drill rig; crew and equipment to site and return	1	l.s.	\$200.00	\$200.00
Field Technician Boring location/utility coordination	4	hours	\$30.00	\$120.00
35 Auger Borings to depths 5 and 10 feet below the existing ground surfaces	370	feet	\$6.00	\$2,220.00
4 Pond Auger Borings - 20 feet	80	feet	\$6.00	\$480.00
2 SPT Borings to 30 feet each	60	feet	\$8.00	\$480.00
Roadway Core and Patch	3	each	\$50.00	\$150.00
24-hour Groundwater Reading	2	hours	\$40.00	\$80,00
Muck delineation - 7 borings to 5	35	feet	\$6.00	\$210.00
feet			Subtotal:	\$3,940.00
Roadway Traffic Maintenance				,
Roadway Signs and Traffic	0.5	day	\$500.00	\$250.00
Costochnical Engineering Cons	sultation			
Engineering personnel for consult editing of boring logs, development findings		nt, general su / test data, ar		
Principal Engineer	1	hour	\$100.00	
Senior Project Manager	8	hours	\$75.00	
Staff Engineer	16	hours	\$50.00	
Drafting	4	hours	\$35.00	
Technical Secretary	2	hours	\$30.00	
Technical cooletary			Subtota	l: \$1,700.0

Racetrack Road Project, St. Johns County, Florida UES Proposal No. 99J-106R (Continued) March 24, 1999

Description	Estimated Quantity	Unit	Unit Price	Total Price
Geotechnical Engineering La	boratory Testing			
Visual Soil Classification	2	hours	\$50.00	\$100.00
Natural moisture content	7	each	\$5,00	\$35.00
Atterberg Limits	2	each	\$50.00	\$100.00
Mechanical sieve analysis	12	each	\$25.00	\$300.00
	4	each	\$100.00	\$400.00
Permeability Test	16	each	\$140.00	\$2,240.00
Limerock Bearing Ratio	4	each	\$25.00	\$100.00
Organic Content	2	each	\$125.00	\$250.00
Corrosion Test			Subtotal:	\$3,525.00
ESTIMATED TOTAL FOR		MGINEERII	NG SERVICES:	\$9,415.00



UNIVERSAL ENGINEERING SCIENCES, INC.

WORK AUTHORIZATION / PROPOSAL ACCEPTANCE FORM

Universal Engineering Sciences, Inc. (UES) is pleased to provide the services described below. The purpose of this document is to describe the terms under which the services will be provided and to obtain formal authorization.

PROJECT NAME:	Proposal for Subsurface Exploration		
PROJECT LOCATION:	Racetrack Road Project, St. Johns Coun	ty, Florida	<u> </u>
CLIENT NAME:	England. Thims & Miller, Inc Rob Mize	II. P.E. Date:	February 16, 1999
CLIENT ADDRESS:	3131 St. Johns Bluff Road South Jacksonville, FL 32216	Phone No.:	904-642-8990 904-646-9485
I. Scope of Servi	ices and Understanding of Project (or as indicated
A. UES General Condition B. UES Proposal Dated: C. Plans, reports, specific D. Other exhibits marked	February 16, 1999 ations and other documents provided by the Client pl and described as follows:	rior to this Agreement date.	
	tency or conflict among the Contract Documents, the	provision in the Contract Document	I little issued above shall govern
	for payment. (To be completed by Client) I for approval to someone other than the account cha	rged, please indicate whore below:	
Firm:	2101 approvat to control to the contr	Social Security Number or Federal Identification No.:	
Address:		Title:	
IN WITNESS WHEREOF, the pa	arties have caused this agreement to be executed by	their duly authorized representative	ıs
CLIENT	UNIVE	RBAL ENGINEERING SCIENCES	1 10 10
BY (Signature)		ignature)	y & frank
TYPED NAME		D NAME	
TITLE			
DATE	DATE	February 16, 1995	

RETURN EXECUTED COPIES TO UNIVERSAL ENGINEERING SCIENCES 2654 US 1 SOUTH, ST. AUGUSTINE, FLORIDA 32086 TELEPHONE: 904-797-7182 / FAX: 904-797-7185



ASSOCIATED SCIENCES CORPORATION

ENVIRONMENTAL SCIENTISTS AND CONSULTANTS
25 THIRTEENTH STREET
ST. AUCUSTINE, FLORIDA 32095
(904)824-8010 FAX (904)824-7785

March 24, 1999

Mr. Robert Mizell
England, Thims and Miller, Inc.
3131 St. Johns Bluff Road, South
Jacksonville, Florida 32246

VIA FAX

RE: Proposal for a Phase I ESA, Revision to the February 15, 1999 Proposal Race Track Road Inside the

Julington Creek Plantation, St. Johns County, Florida

Dear Mr. Mizeil:

Associated Sciences Corporation (ASC) has prepared this proposal for Professional Services to conduct a Phase I Environmental Site Assessment (ESA) for the above referenced site, and as defined in our telephone conversation on Monday, February 15, 1999. This proposal outlines the objectives of the Phase I ESA as defined in the American Society of Testing and Materials E-1527-97, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. This ASTM procedure is generally accepted by financial institutes and includes:

- Site and adjacent property reconnaissance;
- Review of a recently updated database of Federal and State government record systems, and review of historical and current aerial photographs;
- Review of records available at local regulatory agencies, if necessary;
- Review of at least a 50-year chain-of-title to the property (if requested and provided by the client);
- Interviews with owners, occupants and historical contacts, if available;
- Compilation of information and report documenting recognized environmental conditions currently and historically associated with the site.

The ESA will be conducted following the ASTM Method, which generally complies with the requirements for the "innocent landowners defense" of Comprehensive Environmental Response Compensation and Liability Act (CERCLA), which states that "...all appropriate inquiry into previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 USC Section 9601 (35)(B).

Mr. Robert Mizell

Page 2

March 24, 1999

As you have requested, this proposal is for an ESA for all of the parcels inside of the Julington Creek Plantation, to be identified by England, Thims and Miller, inc.. Unless unforeseen circumstances are encountered. ASC proposes to complete the defined Scope of Services within 20 business days of written notice to proceed. In order for us to meet this schedule, we request that you provide:

- A scaled drawing or corridor survey of the site, accurately locating each individual
- Point of contact with the owner or the occupant of the property, if other than yourself; and,
- Arrangements for site access.

ASC proposes a cost for the Phase I ESA at \$2,450,00. However, if any field observation or questionable issues in a database or aerial search arises, we will immediately cause work on that portion of the project and bring the problem to your attention to discuss how to proceed and/or further cost considerations for the completion of the Phase I ESA.

Enclosed with this proposal are two copies of our Terms and Conditions. Please sign both and return one copy to us to begin the Phase I ESA. Alternatively, England, Thims and Miller, Inc. may issue a Purchase Order or Sub-Consultants Agreement (which requires our review and approval) to initiate the work

I look forward to working with you and England, Thims and Miller, Inc. on this project. If you have any questions regarding this proposal, please call me at (904)824-8010.

Sincerely yours,

ASSOCIATED SCIENCES CORPORATION

William J. Ento

William M. Enos, P.G.

President

enclosure

PHONE NO. :

Mar. 23 1999 03:05PM P5

ENVIRONMENTAL RESOURCE



SOLUTIONS, INCORPORATED

23 March 1999

Mr. Robert Mizell England, Thims & Miller 3131 St. Johns Bluff Road South Jacksonville, Florida 32246

RE:

St. Johns County/Race Track Road Improvement Project

Within Julington Creek Plantation

Man-Hour and Fee Estimates/Wetland Delineation & Permitting

ERS Proposal No. P99023

Dear Mr. Mizell:

Environmental Resource Solutions; Inc. (ERS) is pleased to provide England, Thims & Miller (ETM) with man-hour and fee estimates for professional services associated with improvements proposed for Race Track Road in St. Johns County. The work scope below includes tasks directed toward obtaining state and federal authorizations for wetland impacts.

Scope of Services:

TASK 1 - Wetland Delineation. All wetland areas meeting U.S. Army Corps of Engineers (COE) and St. Johns River Water Management District (SJRWMD) wetlands criteria within the project corridor will be delineated. The delineation will be conducted with the use of sequentially numbered surveying ribbon. The flagging will extend 150' ± from the Race Track Road centerline and within proposed stormwater pond sites.

Senior Environmental Scientist I/5 hours @ \$90.00/hr	\$450.00
Environmental Technician II/11 hours @ \$37.00/hr	\$4 07.00
Environmental Technician II/11 hours @ \$35,00/hr	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
TASK TOTAL	\$1,242.00

Task 2 - Agency Review. ERS will schedule and attend agency site reviews with both SJRWMD and COE staff to verify the location of the wetland lines.

Senior Environmental Scientist I/3 hours @ \$90.00/hr	\$270.00
Environmental Technician II/17 hours @ \$37.00/hr	\$629.00
Draftsperson/1.5 hours @ \$45.00/hr	\$67.50
Secretary/1.5 hours @ \$30.00/hr	<u>\$45.00</u>
TASK TOTAL	\$1,011.50

TASK 3 - ERS will assist the project engineer as necessary to submit permit applications to SJRWMD and COE.

Senior Environmental Scientist 1/8 hours @ \$90.00	\$720.00
Settlot Elfallouttering Selection 19 19-19-19	04 E7E 00
Environmental Scientist II/21 hours @ \$75.00	\$1,575.00

FROM : Panasonic FAX SYSTEM

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Mar. 23 1999 03:06PM P6

23 Mar	rch	1999
Mr. Ro	b N	/lizell
Page 2	2	

CADD Operator/11 hours @ \$45.00	 \$495.00
Secretary/5 hours @ \$30.00	 <u>\$150.00</u>
	 \$2,940.00
TASK TOTAL	

TASK 4 - Permit application Processing. ERS will accompany agency staff during all scheduled site inspections, respond to all agency requests for additional information (RAI's) and revise the permit application as necessary to process the required permits.

Senior Environmental Scientist/5 hours @ \$90.00/hr	
Settlot Elialitationilettal determines and the desired	\$1,050,00
Environmental Scientist II/14 hours @ \$75.00	#1000 OD
CADD Operator/5 hours @ \$45.00	
Secretary/4 hours @ \$30.00	 \$120.00
TASK TOTAL	\$1.845.00
TASK TOTAL	, • 1,0-0.00

TASK 5 - Team Meetings. ERS will attend a maximum of 3 meetings with team members and/or agencies to discuss project planning/permitting issues.

Senior Environmental Scientist/10.5 hours @ \$90.00/hr	<u>\$945.00</u>
	\$945.00
TASK TOTAL	

OUT-OF-POCKET-EXPENSES.

Mileage:

3 Trips @ 80 miles/trip @ \$0.35/mile		\$84.00
2. [Ubs @ on timestrib @ no source	 	\$35.00
2 Trips @ 50 miles/trip @ \$0.35/mile	 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,
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Copies:

8.5 x 11 (70 @ \$0.10/copy)		\$7.00
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11 x 17 (14 @ \$0.15/copy)	 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	914:00
Bluelines (14-@ \$1.00/copy	 	

Misc:

Acetate (1 roll @ \$24.50) x 70% of Roll				(4444444) 4 (41744) 4 (41744) A (41744)	
Courier (3@ \$15.00)				\$45.00	
TOTAL - 133.50 Hours	,,	,-,41-,144444		\$7,983.50	

TOTAL OUT-OF-POCKET EXPENSES......

PHONE NO. :

Mar. 23 1999 03:06PM P7

23 March 1999 Mr. Rob Mizell Page 3

We look forward to working with the St. Johns County, ETM and other team members on this project. Please call me if you have any questions or require further information regarding our cost proposal.

Sincerely,

ENVIRONMENTAL RESOURCE SOLUTIONS, INC.

President

Attachment:

ERS Rate Schedule

EXHIBIT A

SCOPE OF SERVICES FOR ENGINEERING

OF

RACE TRACK ROAD IMPROVEMENTS FOR ADDITIONAL LANES

FROM BISHOP ESTATES RD. TO EASTERN LIMIT OF JULINGTON CREEK PLANTATION

ST. JOHNS COUNTY, FLORIDA

I. SCOPE OF PROJECT

- A. The intent of the project is to furnish design services for the proposed reconstruction of Race Track Road from Bishop Estates Road to the eastern limit of the Julington Creek Plantation. The approximate length of the project is 1.6 miles in length along Race Track Road. This project is to be funded with monies set aside by the Julington Creek Plantation.
- B. The additional lanes will begin at the terminus of the four-lane section east of Bishop Estates Road and end at the eastern boundary of the Julington Creek Plantation. Tapers will be included to transition from the four lane sections back into the two lane roadway.
- C. It is intended that Consultant's services will result in all drawings, specifications, permits, and other documents needed for the County to acquire necessary right-of-way, adjust utilities, seek bids, and contract for construction of the project.
- D. Consultant's services on the project may be in two (2) phases, Design and Construction Administration, with separate negotiation and fee for each phase. At the County's option and upon completion of the final design phase, Consultant's services may be extended to include a construction administration phase after negotiation of mutually satisfactory terms.

II. PROJECT REQUIREMENTS

A. Final Design Requirements:

- 1. The Consultant will proceed with the design of the Race Track Road Reconstruction project to continue the typical four lane section currently under construction from S.R. 13 to Bishop Estates Road.
- 2. The basic roadway and drainage design shall meet County Standards.
- 3. All design criteria shall be based on the "Manual of Uniform Minimum Standards for Design,
 Construction and Maintenance for Streets and Highways, State of Florida", latest edition;
 Florida Department of Transportation Roadway and Traffic Standards; and the American
 Association of State Highway and Transportation Officials Policies and Guidelines.

- 4. Bench Levels Vertical control for the project will originate from existing FDOT benchmarks and will loop through the project, with a minimum of five (5) benchmarks established. Benchmarks will also be referenced to facilitate reestablishment at a future date.
- 5. Topography The Consultant shall acquire topography, as required, throughout the project length. The Consultant shall show all above grade fixed improvements along the route (pavement, culverts, buildings, fences, signs, light poles, signals, utilities, etc.) All buildings within 50 feet of the proposed right-of-way lines shall be located and shown, as well as existing topographic data within 25 feet beyond the proposed right-of-way including, but not limited to, fences, drainage structures, walls or other fixed structures, and other appurtenances which may affect the design of the project. The full topographic survey shall be undertaken on all side street intersections for a minimum of 300 feet on each leg.
- 6. Roadway X-Sections Full roadway X-sections will be obtained on stations at 100' intervals. Sections will extend to 25' outside the proposed right-of-way lines or to existing buildings. Half sections will be obtained at existing driveways and extend 50' beyond the right-of-way line or to existing buildings.
- 7. Underground Utilities All underground utilities will be located along the route as marked on the surface by a representative of the utility company. Existing as-built information will be incorporated and field-verified where possible. All pertinent vertical information on pipe, inverts, conduits, etc., will be obtained where possible. Should additional verification of subsurface utilities requiring excavation be necessary, Vacuum Excavation services will be performed to accurately locate and determine the elevation of existing underground utilities that may be in conflict with the proposed improvements. Fees for Vacuum Excavation services will be included in the reimbursable portion of the contract.
- 8. Offsite Drainage Surveying Outfall drainage surveys will be required. Topography and cross-sectioning will be taken as well as any subsurface utility location or other improvements.
- 9. Offsite Mitigation Surveying There may be a need for a topographic survey, maps and legal descriptions. While wetland preservation is preferred, the site may be used for either wetland creation, enhancement or restoration. (Location of site to be determined). This work is reimbursable and an estimated budget is included under offsite mitigation services.
- 10. Bridge Plans No bridges are required for this project.
- 11. Existing Right-of-Way Maps Prior to the issuance of proposed right-of-way maps, the right-of-way control survey shall be updated to include additions to the project limits and a signed and sealed existing right-of-way map shall be issued as mandated by the Minimum Technical Standards, Chapter 21HH-6, Florida Administrative Code. The existing right-of-way map will include the following items:
 - a. Existing rights-of-way and easements within the limits of the project.
 - b. Baseline of survey including stations, bearing, bearing basis, all applicable curve data, all monumentation found and set along project and begin/end survey.
 - c. Ties to subdivision boundary lines, subdivision block lines, side street right-of-way lines, and all other tract lines along the route.

- d. Record distances of all properties adjacent to the right-of-way.
- e. Ties to all existing centerline stationing and equation.
- f. Centerline reference points.
- g. Subdivision names and recording information.
- h. Deeds or official records volume of non-platted or vaguely platted lands.
- i. The first tier of lots of the adjoining subdivisions.
- j. Mapping will be at a minimum scale of 1'' = 40'.
- 12. Proposed Right-of-Way Maps Right-of-way control mapping will be used as the basis for final right-of-way maps, to be done to FDOT standards and to the satisfaction of the County's Topographical/Survey Section. Additional survey items for the right-of-way maps will include:
 - a. Ownership list with parcel numbers and square footage of taking. This list shall be updated at the 90% submittal. Ownership shown will be based on latest tax records. Parcel numbers to be assigned as follows:
 - Fee parcels numbered 100-199
 - Permanent easements numbered 800-899
 - Temporary construction easements numbered 700-799
 - b. Legal descriptions of takings (per ownership), with the right-of-way maps serving as the certified sketches to accompany.
 - c. Geometry of proposed R/W lines.
 - d. First tier of abutting ownerships, with field data justifying the parcel boundaries.
 - e. All recorded information of abutting properties.
 - f. Pertinent topographic features.
- g. Mapping at a minimum scale of 1" = 40'.

 Legal descriptions of taking (per ownership) shall be provided for all right-of-way takings and easements.
- 14. Geotechnical The objective of geotechnical exploration is to provide sufficient site and subsurface information to evaluate the subsurface conditions along Race Track Road and at all required off-site locations such as pond sites for the proposed construction.
 - a. For the roadway section, it is proposed to perform auger borings to depths of 6.0 feet on spacings not to exceed 200 feet in the roadway improvements areas. Borings shall be taken alternating left and right of centerline, with one of every five borings taken within the existing pavement area. In areas which have significant organic materials (i.e. muck) or other unsuitable materials, these areas will be delineated with additional auger borings to a depth of five feet

below the unsuitable material. One boring will be performed in each of the two proposed stormwater management ponds to a depth of 20 feet.

- b. Laboratory classification and index soil tests will be performed as necessary on selected soil samples obtained from the exploration. Additionally, limerock bearing ratio tests will be performed to determine the existing subgrade support for roadway design.
- c. A geotechnical engineer, registered in the State of Florida, will direct the geotechnical exploration and provide engineering analysis and evaluation of the site and subsurface conditions with respect to the planned construction and imposed loading conditions. The results of the exploration and engineering study will be presented in a report containing the following:
 - (1) A brief discussion of the planned construction and imposed loading conditions.
 - (2) A presentation of the field and laboratory test procedures used and the data obtained.
 - (3) A presentation of the existing on-site conditions, such as topography, surface vegetation, encountered and seasonal high water tables, etc. as they relate to the planned construction.
 - (4) A presentation of the subsurface conditions, including subsurface profiles and estimated seasonal high water levels.
 - (5) A geotechnical engineering evaluation of the site and subsurface conditions with respect to the planned construction.
 - (6) Recommendations for pavement design parameters.
 - (7) Recommendations for the required site preparation and earthwork construction.
- 15. Signing and Pavement Markings Plans shall be developed showing proposed signing and pavement marking along the roadway, at a minimum scale of 1" = 40'.
- C. Sequence of Services:
- Perform Design Surveys.
- 2. Acquire geotechnical information.
- 3. Final design for construction, including plans, specifications and right-of-way maps.
- 4. Perform all permitting requirements stated herein.
- Respond to Bidder inquiries and review bids.
- D. Project Submittal Requirements:
- Preliminary Design: Preliminary drawings shall be furnished to addressees stipulated by the Project Manager. These drawings shall be marked up by the agencies involved and

returned for inclusion in follow-on design work. Each agency's mark-up shall be returned with the next design submittal, showing the Consultant's response to each agency comment. Documents shall include the following items, as a minimum:

- a. Location map with beginning, ending and any required equation stations.
- b. Drainage map(s) showing existing elevations, contours, major structures with high water information, and drainage areas with direction of flow indicated.
- c. Typical sections for anticipated roadway segment(s) including dimensions, pavement structure(s) and design traffic data. The Consultant shall submit his pavement design calculations to justify the proposed typical section(s).
- d. Plan and profile sheets showing existing topography, reference points, baseline of surveys, curve data, begin/end and required equation stations, existing and proposed roadway and existing water and sewer facilities; also benchmark datum, existing ground line and preliminary proposed profile grade, anticipated subsoil and profile and location of water table.
- e. Cross-sections showing existing ground line with preliminary template shown at critical locations and every 100 feet. The soil boring logs shall be shown on the appropriate cross-sections.
- f. Preliminary results of the drainage analysis of the outfalls indicating the probable extent of any downstream improvements required. (Include plan and profile of outfalls)
- g. The geotechnical report giving the results of the exploratory borings and providing recommendations for earthwork, culvert, and paving construction.
- h. A list of all permits which will be necessary to construct the project.
- I. Preliminary Opinion of Construction Cost.
- j. Existing right-of-way Control Maps (updated to include all additions to the project limits).
- 2. Rights-of-Way:

Two (2) sets of updated plans showing existing rights-of-way and easements including adjacent property boundaries and ownerships shall be submitted with the 30% submittal. Two sets of corrected, signed & sealed existing right-of-way maps shall be furnished within 30 days after receipt of comments from the 30% review.

For the 60% submittal, the right-of-way control survey maps shall be annotated to identify all parcels to be acquired for rights-of-way and drainage easements necessary to accomplish the proposed construction, as well as one original set of corresponding legal descriptions and sketches of each parcel to be acquired (one for each parcel) prepared in accordance with Minimum Technical Standards by a Professional Land Surveyor registered in Florida. In addition, one (I) reproducible of an index sheet listing all parcels shall be furnished.

Final right-of-way requirements will be established upon receipt of comments from review of the 60% submittal. Final right-of-way sketches and legal descriptions will be delivered within 60 days after receipt of the 60% review comments. Sketches and legal descriptions of off-site mitigation areas are not included in this schedule but will be due at 100% completion date.

- 3. Utility Coordination: During this work, the Consultant will be expected to furnish up-to-date drawings at the earliest possible time to assist utilities in locating their facilities for the purpose of resolving conflicts with the construction.
- 4. Final Design: Up to fourteen (14) sets of half-size (11" x 17") drawings and up to Eight (8) sets of full size (24" x 26") drawings shall be furnished to addressees stipulated by the Project Manager at the 30%, 60%, 90% and 100% completion points. These drawings will be marked-up by the agencies involved and returned for inclusion in follow-on design work. Each agency's mark-up shall be returned with the next design submittal, showing the Consultant's response to each agency comment.

At the 60% completion point, the plans shall include the following items, as a minimum, in addition to the preliminary design:

- a. Location map with begin/end and equation stations, limits of construction, north arrow and scale.
- b. Drainage map(s) and drainage structures showing stationing, final profile and ditch grades, type and placement of drainage structures.
- c. Plan and profile sheets showing all geometric data (radii, offsets, widths, centerline of construction, etc.) And complete stationing.
- d. Complete cross sections with existing and proposed rights-of-way and easements shown, template shown on all sections.
- e. Ten (10) sets of draft specifications, to include the bidding documents (typed, double spaced) for the Contract shall be furnished to the Project Manager at the 90% and 100% points for review comments. The specifications shall include the County's Standard Contract Documents with the individual sections modified as necessary for the project. Format, pagination and division shall conform to the County Standard Specifications in these aspects.
- f. Following acceptance of the 100% completion set, up to twenty (25) sets of full size drawings and ten (10) sets of half-size (11" x 17") drawings and twenty-one (25) sets of specifications for construction shall be furnished to the Project Manager for bidding, bound and ready for distribution. The County will advertise, receive and open bids, and write and award the construction contract(s).
- 5. Estimates: Budget estimates for the anticipated cost of construction will be furnished at the 30%, 60% and 90% completion points, with two copies to the Project Manager. At the 100% completion point, a final engineering estimate will be furnished to the Project Manager, using the bidding documents incorporated in the specifications.
- 6. Design Reviews: The Consultant, when submitting drawings at the 30%, 60%, 90% and 100% completion points, will allow up to three (3) weeks review time for each submittal and, if requested, will attend and prepare meeting minutes of a review conference at the

end of the period to discuss the agency comments. In addition, if directed by the Project Manager, a complete review will be held at the project site. Any changes, refinements, or modifications developed in each review shall be incorporated into the design or otherwise disposed of before proceeding to follow-on design work. Each agency's markup shall be returned with the next follow-on submittal, showing the Consultant's response to the agency comments.

7. As Built Drawings: If the County elects to have the Consultant administer the construction contract, the Consultant will provide reproducible Mylar as-built drawings at the end of construction. A duplicate set of the original drawings may be used for this. The original design data may be lined out or redrawn and the as-built data shown using a lettering style which call out the changes. Each drawing shall be marked "As-Built" in one (1) inch high letters.

E. Permitting Requirements:

- 1. With the Preliminary Design stage submittal (30%), the Consultant shall provide the County with a list of all permits which will need to be acquired to construct the project.
- 2. The Consultant shall take minutes and/or notes of all meetings with the permitting agencies. These notes shall be transcribed and furnished to the Project Manager within ten (10) calendar days of the meeting.
- 3. The Consultant shall keep a log of permit activities performed by his firm and subconsultants for review by the County.
- 4. The Consultant shall prepare all required applications for permits and supporting documentation and furnish to the Project Manager for signatures. The Project Manager will obtain the necessary signatures and return them to the Consultant for submittal to the permitting agencies.
- The Consultant shall perform the services needed to request, diligently pursue, acquire and furnish to the County permit applications required for construction of the project. Permit application fees for all permits will be paid by the County. Such services shall include, but not be limited to, responding to Requests for Additional Information, modification to Permit Application and documents, and review of design drawings to meet permit conditions. Unless otherwise provided in the Agreement between the County and Consultant, all the Consultant's services, except those services associated with off-site mitigation requirements, that are required (on the date of the Consultant's Contract) in acquiring and furnishing permits, are included in the lump sum fee for final design. Services relating to off-site mitigation will be reimbursed out of the not-to-exceed fees for Mitigation Services.

Should modifications of the permits or Requests for Additional Information be required for reasons beyond the Consultant's control, a fee for the modification or services will be negotiated at that time if the services are required by the County. Permit applications that will be required for this project include, but are not limited to, the following:

- a. SJRWMD Environmental Resource Permit
- b. Corps of Engineers Wetland Resource Permit
- c. NPDES Construction Permit (Notice of Intent)

F. Additional Requirements:

- l. Provide dialogue with Road and Bridge, Traffic Operations Division, and Engineering Division pertinent to all phases.
- 2. Provide dialogue with all affected utility companies as appropriate.
- Plans shall be standard 24" x 36" Mylar or CADD Vellum sheets with 21" x 32" inside borders to facilitate half-size printing which is acceptable at the 30%, 60%, 90% and 100% submittals. Additionally, the Consultant shall submit all drawings in electronic form using a standard .dxf or .dwg format.
- 4. Specifications shall be on standard 8-1/2" x 11" paper.
- 5. The County shall be the Owner of the final documents.
- 6. The Consultant shall take notes of all design/review meetings held with County agencies.

 These notes shall be transcribed and furnished to the Project Manager for concurrence as soon as practical after the date of the meeting.
- 7. The Consultant shall assist the County concerning interpretation of the intent of the contract documents during the bidding/negotiation period by answering bidder inquiries and preparing required addenda.
- 8. The Consultant shall assist the County concerning interpretation of the intent of the contract documents during the construction phase, should the County elect not to retain the Consultant for Contract Administration Services. It is intended that this work will only be required when the County's Contract Administration and Roadway Design personnel are unable to answer questions regarding the plans and specifications.

III. TIME SCHEDULE

- A. 30% Review submittal 90 days from date of Notice to Proceed.
- B. 60% Review submittal 60 days from the 30% submittal date.
- C. 90% Review submittal 60 days from the 60% submittal date.
- D. 100% Review submittal 30 days from the 90% submittal date.
- E. It is anticipated that all permits will be acquired during the design process.
- F. The total time allowed for the active design and permitting of this project shall be 8 months.

IV. NOTICE TO PROCEED

No work on this project shall be performed until a contract has been executed and a Notice to Proceed is issued which specifically authorizes such work.

Does not include:

Design Services

PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST

Race Track Road - 2.3 MILES

England-Thims & Miller,Inc. 12-Apr-99

Sodding Seed and Mulching S JORN BRAINAGE

Drainage Structures

Concrete Culvert 8" Limerock Base SITE PREPARATION
Clearing and Grubbing
Maintenance of Traffic As-Builts Baled Hay or Straw Staked Silt Fence Skip Traffic Stripe Sign Panel -F& I Concrete Curb & Gutter Mobilization Conligency (15%) viitigation Stormwater Pollution Prevention Concrete Pipe General Conditions Construction Bond (3/4%) Right-of-Way ognt-of-Way/ Mitigation _till #till to the second of the osion's Sediment Control Solid Traffic Stripe Concrete Sidewalk 2" Compacted Sub-base Reflective Pavement Markers arthwork nderdrain re-Design Estimate Intotal ırbidity Barrier Asphalt Concrete SIGNINGIANDSPAYOMASKUNG Grassing PAVENEN Item Description EARLEW CHK Total 4" Thick 6" Curb , 1.5' Gutter Min. LBR 75, 100% Max. Min. LBR 40 Plan and Maintenance 4"/10'-30" Plan and Maintenance Type S-1 (1500 LB Marsh 5sf or Less Sub-total Estimated Quantity 71,000 71,000 269,000 25,000 12,500 50,000 25,000 15 55.75 200 10,000 1<u>0</u>0 167317 1,500 5000 2000 20 27000 13.43 Unit ี่ ๚ฅ๛๛๎ SY SY SY Mo∂ A A **ጝ**፟ቑቜቜ YS YS $\exists \exists \exists \exists \exists$ LS MO LS \$250,000.00 \$35.00 \$12.50 \$3,000.00 \$100,000.00 \$15,000.00 \$12,000.00 \$60,000.00 \$350,000 \$4,500.00 \$7,500.00 \$5,000.00 \$8.34 \$0.79 \$7.23 \$20,000.00 \$2,500.00 \$3.75 \$270.00 \$0.17 \$0.44 \$3.41 \$6.94 \$1.20 \$6.11 \$6.11 \$14.72 \$1.50 \$0.25 Unit Cost \$3,424,7,66.00 \$152,750.00 \$56,000.00 \$1,266,400.00 Total
Cont
S36,000.00
\$100,000.00 \$250,000.00 \$52,500.00 \$62,500.00 \$402,500.00 \$350,000.00 \$350,000.00 \$492,740.00 \$322,800.00 \$250,875.00 \$90,000.00 \$340,875.00 \$25,685.75 \$513,714.90 \$40,500.00 \$41,829.25 \$40,500.00 \$242,110.00 \$805,800.00 \$723.00 \$35,291.00 \$15,000.00 \$15,000.00 \$7,500.00 \$5,400.00 \$8,500.00 \$11,000.00 \$32,400.00 \$20,000.00 \$5,000.00 \$1,663.00 \$7,900.00 \$37,500.00 \$12,000.00 Proportionate Share \$25,043.48 \$69,565.22 \$94,608.70 \$8,347.83 \$129,000.00 \$129,000.00 \$1,911,932.87 JCP Funded \$842,017.39 \$168,424.35 \$342,775.65 \$224,556.52 \$106,260.87 \$243,478.26 \$243,478.26 \$62,608.70 \$237,130.43 \$36,521.74 \$43,478.26 \$280,000.00 \$14,339.50 \$286,789.93 \$2,213,062.30 \$3,478.26 \$1,160.35 \$5,495.65 \$502.96 \$24,550.26 \$24,550.26 \$10,434.78 \$13,913.04 \$5,217.39 \$3,756.52 \$5,913.04 \$7,652.17 \$22,539.13 \$28,173.91 \$29,098.61 \$28,173.91 \$173,913.04 \$174,521.74 1.6 miles 326,086.96 Proportionate Share \$10,956.52 \$30,434.78 \$41,391.30 \$3,652.17 \$676,800.00 \$676,800.00 \$1,512,833.13 \$6,086.96 \$1,521.74 \$507.65 \$2,404.35 \$220.04 \$10.740.74 \$4,565.22 \$4,565.22 \$11,413.04 \$76,086.96 \$15,978.26 \$19,021.74 \$122,500.00 \$98,243.48 \$46,489.13 \$56,000.00 \$424,382.61 \$106,521.74 \$106,521.74 \$76,353.26 \$27,391.30 \$103,744.57 \$1,751,104.35 \$12,326.09 \$12,730.64 \$12,326.09 \$149,964.35 \$2,282.61 \$1,643.48 \$2,586.96 \$3,347.83 \$9,860.87 \$73,685.65 \$11,346.25 0.7 miles 326,924.97

Bishop Estates to East JCP Limit

Russell Sampson Road 0.2 miles East of

East JCP Limit to