

PROFESSIONAL SERVICES

- 15. Approve Work Order #46 to PS-5165-04/AJR – Master Agreement for Continuing Professional Services to Metric Engineering, Inc., of Winter Park (\$83,374.35).**

PS-5165-04/AJR is a Master Agreement with multiple consultants that provides various professional services for Seminole County Public Works Department. The Seminole County Purchasing Code requires Board approval for any work order exceeding \$50,000.00 under multiple consultant Master Agreements.

Work Order #46 provides for professional design services to perform revisions to the sidewalk construction plans for the portion of Dyson Drive outside of the City of Winter Springs.

Funds are available in account 077541.560650 CIP 00206201. Public Works Department/Engineering Division and Fiscal Services Department/Purchasing and Contracts Division recommend that the Board approve the award of this work order and authorize the Purchasing and Contracts Manager to execute the work order.

**Board of County Commissioners
SEMINOLE COUNTY, FLORIDA**

WORK ORDER

Work Order Number: 46

Master Agreement No.: PS-5165-04/AJR
Contract Title: Professional Services Agreement
Project Title: **Dyson Drive Sidewalk Construction**

Dated: November 9, 2004

Consultant: Metric Engineering, Inc.
Address: 2269 Lee Road, Suite 200
Winter Park, Florida 32789

ATTACHMENTS TO THIS WORK ORDER:

- ☐ drawings/plans/specifications
- ☒ scope of services
- ☐ special conditions
- ☐

METHOD OF COMPENSATION:

- ☐ fixed fee basis
- ☒ time basis-not-to-exceed
- ☐ time basis-limitation of funds

TIME FOR COMPLETION: The services to be provided by the CONTRACTOR shall commence upon execution of this Agreement by the parties and shall be completed by 180 from the Notice-To-Proceed. Failure to meet the completion date may be grounds for Termination for Default.

Work Order Amount: Eighty-Three Thousand Three Hundred Seventy-Four and 35/100 Dollars (\$83,374.35)

IN WITNESS WHEREOF, the parties hereto have made and executed this Work Order on this _____ day of _____, 20____, for the purposes stated herein.

(THIS SECTION TO BE COMPLETED BY THE COUNTY)

METRIC ENGINEERING

ATTEST:

_____, Secretary

(CORPORATE SEAL)

By: WILLIAM V. ANDERSON, P.E., President

Date: _____

**BOARD OF COUNTY COMMISSIONERS
SEMINOLE COUNTY, FLORIDA**

WITNESSES:

(Seminole County Contracts Analyst, print name)

By: Ray Hooper, Purchasing and Contracts Manager

Date: _____

(Seminole County Contracts Analyst, print name)

As authorized by Section 330.3, Seminole
County Administrative Code.

ON#15710

WORK ORDER TERMS AND CONDITIONS

- a) Execution of this Work Order by the COUNTY shall serve as authorization for the CONSULTANT to provide, for the stated project, professional services as set out in the Scope of Services attached as Exhibit "A" to the Master Agreement cited on the face of this Work Order and as further delineated in the attachments listed on this Work Order.
- b) Term: This work order shall take effect on the date of its execution by the County and expires upon final delivery, inspection, acceptance and payment unless terminated earlier in accordance with the Termination provisions herein.
- c) The CONSULTANT shall provide said services pursuant to this Work Order, its Attachments, and the cited Master Agreement (as amended, if applicable) which is incorporated herein by reference as if it had been set out in its entirety.
- d) Whenever the Work Order conflicts with the cited Master Agreement, the Master Agreement shall prevail.
- e) METHOD OF COMPENSATION - If the compensation is based on a:
 - (i) FIXED FEE BASIS, then the Work Order Amount becomes the Fixed Fee Amount and the CONSULTANT shall perform all work required by this Work Order for the Fixed Fee Amount. The Fixed Fee is an all-inclusive Firm Fixed Price binding the CONSULTANT to complete the work for the Fixed Fee Amount regardless of the costs of performance. In no event shall the CONSULTANT be paid more than the Fixed Fee Amount.
 - (ii) TIME BASIS WITH A NOT-TO-EXCEED AMOUNT, then the Work Order Amount becomes the Not-to-Exceed Amount and the CONSULTANT shall perform all the work required by this Work Order for a sum not exceeding the Not-to-Exceed Amount. In no event is the CONSULTANT authorized to incur expenses exceeding the not-to-exceed amount without the express written consent of the COUNTY. Such consent will normally be in the form of an amendment to this Work Order. The CONSULTANT's compensation shall be based on the actual work required by this Work Order and the Labor Hour Rates established in the Master Agreement.
 - (iii) TIME BASIS WITH A LIMITATION OF FUNDS AMOUNT, then the Work Order Amount becomes the Limitation of Funds amount and the CONSULTANT is not authorized to exceed the Limitation of Funds amount without prior written approval of the COUNTY. Such approval, if given by the COUNTY, shall indicate a new Limitation of Funds amount. The CONSULTANT shall advise the COUNTY whenever the CONSULTANT has incurred expenses on this Work Order that equals or exceeds eighty percent (80%) of the Limitation of Funds amount. The CONSULTANT's compensation shall be based on the actual work required by this Work Order and the Labor Hour Rates established in the Master Agreement.
- f) Payment to the CONSULTANT shall be made by the COUNTY in strict accordance with the payment terms of the referenced Master Agreement.
- g) It is expressly understood by the CONSULTANT that this Work Order, until executed by the COUNTY, does not authorize the performance of any services by the CONSULTANT and that the COUNTY, prior to its execution of the Work Order, reserves the right to authorize a party other than the CONSULTANT to perform the services called for under this Work Order; if it is determined that to do so is in the best interest of the COUNTY.
- h) The CONSULTANT shall sign the Work Order first and the COUNTY second. This Work Order becomes effective and binding upon execution by the COUNTY and not until then. A copy of this Work Order will be forwarded to the CONSULTANT upon execution by the COUNTY.



METRIC ENGINEERING, INC.

CONSULTING ENGINEERS

2269 LEE ROAD
PHONE 407-644-1898

PLANNERS

SUITE 200

SURVEYORS

WINTER PARK, FLORIDA 32789
FAX 407-644-1921

Via/Email

June 5, 2006

Mr. Alan Ayash, P.E.
Principal Engineer
Seminole County Public Works Department
Engineering Division
520 West Lake Mary Blvd., Suite 200
Sanford, Florida 32773-7424

Re: Continuing Services for Professional Services
PS-5165-04/AJR

Subject: Dyson Drive Sidewalk Proposal

Dear Mr. Ayash:

Attached please find our Scope of Services, Schedules, and Fee Estimates to complete the above referenced project. We have provided two separate proposals. These proposals are based on your comments received last week.

The first proposal represents the work effort required to revise and update the 60% plans for the segment between Tuskawilla Drive and Howell Creek. Major work efforts include a full DTM survey, producing new plan/profile sheets and cross-sections, a drainage analysis and report, drainage improvement design, the design of a pedestrian bridge over Howell Creek, landscaping design, traffic calming design, geotechnical investigations, wetland delineation and permitting at the Howell Creek bridge, final quantities and construction cost estimate, and an optional public information meeting.

The second proposal represents the work effort required to complete the 90% plans for the segment between Howell Creek and Shetland Avenue. Major work efforts include partial survey (DTM at Shetland Ave. intersection and 25' interval cross-sections at potential gravity wall locations), revision of plans per recent public and City of Winter Springs comments, and final quantities and construction cost estimate.

A detailed breakdown of man-hours and cost by task is presented in the attached Summary Fee Sheets.

Please advise us if you have any questions or require clarifications on any aspects of our proposal. You can contact me at (407) 644-1898.

Very truly yours,

William V. Anderson

METRIC ENGINEERING INC.

William V. Anderson, P.E.
Project Manager

Dyson Drive Sidewalk Plans
(Tuskawilla Road to Howell Creek – 3,180 LF)

SCOPE OF SERVICES SUMMARY – The following services are anticipated to revise and update the 60% sidewalk construction plans for the portion of Dyson Drive outside of the City of Winter Springs.

A. DESIGN ANALYSIS / MEETINGS

- 1) FINAL CONSTRUCTION QUANTITIES AND CONSTRUCTION COST ESTIMATES
- 2) PROGRESS/COMMENT REVIEW MEETINGS WITH COUNTY (2 MEETINGS X 2 PEOPLE X 2 HRS EA)

B. SIDEWALK PLANS PREPARATION

- 1) KEY SHEET (1 SHEET)
- 2) SUMMARY OF PAY ITEMS / PAY ITEM NOTES (1 SHEET)
- 3) TYPICAL SECTION OF DYSON DRIVE / CONST DETAILS / GENERAL NOTES (1 SHEET)
- 4) SIDEWALK GENERAL NOTES (1 SHEET)
- 5) SUMMARY OF QUANTITIES (2 SHEETS)(EARTHWORK, SODDING, SIDE DRAINS, DRAINAGE STRUCTURES, DRIVEWAYS)
- 6) PROJECT CONTROL SHEET (1 SHEET) – REFERENCE TIES, BENCH MARKS
- 7) PLAN/PROFILE SHEETS (6 SHEETS) 1"=40' HALF SIZE (560 LF/SHT)
 - NEW BASE SHEETS DEVELOPED FROM FULL DTM SURVEY, TAX MAPS, SUBDIVISION PLANS, AVAILABLE AERIAL PHOTOGRAPHY, FIELD MEASUREMENTS
 - ROADWAY GEOMETRY, SIDE STREETS, APPROXIMATE R/W LINES, PROPOSED SIDEWALK, TRAFFIC CALMING, DRIVEWAY RECONSTRUCTION, DRAINAGE IMPROVEMENTS, EROSION & SEDIMENTATION CONTROL, RETAINING WALLS
 - PROFILES INDICATING DITCH GRADING, SIDE DRAINS, DRAINAGE STRUCTURES
- 8) LANDSCAPING / TRAFFIC CALMING DETAILS (1 SHEET)
 - SIGNING, PAVEMENT MARKING, PLANTING DETAILS
- 9) CROSS-SECTIONS (100' INTERVAL) – 32 SECTIONS (10 SHEETS)
- 10) TRAFFIC CONTROL NOTES (1 SHEET)
 - TYPICAL DETAILS, GENERAL NOTES, PHASING NOTES
- 11) DRIVEWAY PROFILES – 26 DRIVEWAYS (5 SHEETS)

C. UTILITY COORDINATION

- 1) SUBMIT APPROVED 60% PLANS TO UTILITY OWNERS FOR VERIFICATION
 - PLOT EXISTING UTILITIES ON PLAN SHEETS IN AREAS OF POTENTIAL CONFLICT

D. DRAINAGE ANALYSIS

- 1) PREPARE DRAINAGE ANALYSIS TO DETERMINE AND DESIGN DRAINAGE IMPROVEMENTS REQUIRED TO RESOLVE LOCAL FLOODING PROBLEMS AND TO CONSTRUCT PROPOSED SIDEWALK IMPROVEMENTS
 - EVALUATE EXISTING SYSTEM FOR CAPACITY AND RECOVERY (10-YEAR STORM EVENT)
 - DESIGN IMPROVEMENTS TO INCLUDE SWALE GRADING, SIDEDRAIN AND STORM SEWER SYSTEM/EXFILTRATION IMPROVEMENTS

E. FIELD REVIEWS

- 1) 2 REVIEWS X 2 PEOPLE X 3 HRS EA.

F. ENVIRONMENTAL PERMITTING

- 1) AGENCY COORDINATION (SJRWMD) – PRE-APPLICATION MEETING
- 2) APPLY FOR STANDARD GENERAL ENVIRONMENTAL RESOURCE PERMIT (CONSTRUCTION OF BRIDGE WIDENING OVER A WETLAND AND FOR PROPOSED DRAINAGE IMPROVEMENTS)
- 3) SIDEWALK CONSTRUCTION PERMIT EXEMPTION PER F.A.C. 40C-42.0225 (PARAGRAPHS 5 & 6)

G. PUBLIC INVOLVEMENT (OPTIONAL)

- 1) ONE PUBLIC INFORMATION MEETING USING 60% PLANS SHOWING PROPOSED SIDEWALK LOCATION FOR PROPERTY OWNER INPUT, INCLUDES MAILOUTS TO RESIDENTS ON DYSON DRIVE, SCHOOL OFFICIALS, LOCAL GOVERNMENT OFFICIALS, JURISDICTIONAL AGENCIES, ETC.

Metric Engineering, Inc.

ENVIRONMENTAL SERVICES & PERMITTING ASSISTANCE (ENVIRONMENTAL MANAGEMENT SYSTEMS, INC.)

- 1) JURISDICTIONAL WETLAND DETERMINATION AT PROPOSED HOWELL CREEK PEDESTRIAN BRIDGE CROSSING
- 2) NOTICE GENERAL PERMIT APPLICATION (SJRWMD) AND A NATIONWIDE PERMIT 14 APPLICATION (ACOE) FOR THE PROPOSED WETLAND IMPACTS AT HOWELL CREEK. THE APPLICATION PACKAGES WILL INCLUDE MAPS AND EXHIBITS AS REQUIRED.

GEOTECHNICAL UNVESTIGATIONS (GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS, INC.)

- 1) 6 AUGER BORINGS (20 FEET) AND 6 FIELD PERMEABILITY TESTS
- 2) PERFORM VOLUME RECOVERY ANALYSIS FOR EXFILTRATION TRENCH SYSTEM

LANDSCAPING DESIGN (JCR CONSULTING, INC)

- TYPICAL LANDSCAPING DETAILS FOR 16' DIA TRAFFIC CIRCLE AND 3' x 40' TRAFFIC ISLAND. INCLUDES LANDSCAPING CHART WITH VARIETY OF PLANT MATERIALS.
- IRRIGATION NOT REQUIRED
-

STRUCTURE PLANS (PEDESTRIAN CROSSING AT HOWELL CREEK) (AVCON, INC / UNIVERSAL)

- 1) DRAWINGS FOR PRE-FABRICATED PEDESTRIAN BRIDGE SEPARATE FROM AND SOUTH OF EXISTING ROADWAY BRIDGE (3 SHEETS)
- 2) STRUCTURAL PLANS TO INCLUDE DETAILS, NOTES, COST ESTIMATE, MEETINGS, SPECS
- 3) STRUCTURAL DESIGN CALCULATIONS
- 4) INCLUDES GEOTECHNICAL INVESTIGATION (STRUCTURAL BORINGS AT FOUNDATION LOCATIONS)

DESIGN SURVEY (SOUTHEASTERN SURVEYING & MAPPING) - PLEASE REFER TO ATTACHED FEE PROPOSAL (TASK D)

PLAN SUBMITTALS

- 1) 60% PLANS FOR COUNTY APPROVAL PRIOR TO PUBLIC MEETING
- 2) 90% PLANS WITH PRELIMINARY QUANTITIES AND COST ESTIMATE
- 3) 100% PLANS WITH FINAL QUANTITIES AND COST ESTIMATE

SCHEDULE (6 MONTHS)

NTP MEETING
DESIGN SURVEY / GEOTECHNICAL INVESTIGATIONS
PREPARE 60% PLANS & DRAINAGE ANALYSIS
COUNTY REVIEW
PRE-APP MEETING WITH SJRWMD
SUBMIT BASE PLANS TO UTILITY OWNERS
PUBLIC INFORMATION MEETING
PREPARE AND SUBMIT 90% PLANS TO COUNTY
COUNTY REVIEW
PREPARE AND SUBMIT ENVIRONMENTAL PERMIT APPLICATION
PREPARE AND SUBMIT 100% PLANS TO COUNTY
COUNTY REVIEW
PREPARE AND SUBMIT FINAL PLANS TO COUNTY
SECURE ENVIRONMENTAL PERMITS

WEEK 1
WEEK 1 THRU 4
WEEK 5 THRU 8
WEEK 9 THRU 10
WEEK 8
WEEK 8
WEEK 12
WEEK 11 THRU 14
WEEK 15 THRU 16
WEEK 13 THRU 14
WEEK 17
WEEK 18 THRU 19
WEEK 20
WEEK 26

ENGINEERING DIVISION

June 5, 2006

**Dyson Drive Sidewalk Construction
From Taskawilla Road to Hewell Creek**

PRIME CONSULTANT:		Metric Engineering, Inc. (MEI)						Frost's Mainwater House of Natural Colors							
ACTIVITY	Project Manager		Senior Engineer		Project Engineer		Senior Designer		Eng. Technician		Clerical		TOTAL		
	Rate/Hr:	\$149.19	Rate/Hr:	\$127.47	Rate/Hr:	\$98.01	Rate/Hr:	\$49.95	Rate/Hr:	\$57.78	Rate/Hr:	\$45.14	Man-hours by Activity	Salary Cost for Activity	Avg. Hourly Rate
	Man Hours	Cost by Pw & Act.	Man Hours	Cost by Pw & Act.	Man Hours	Cost by Pw & Act.	Man Hours	Cost by Pw & Act.	Man Hours	Cost by Pw & Act.	Man Hours	Cost by Pw & Act.			
A. Design Analysis/Meetings	4	\$596.76	0	\$0.00	8	\$784.08	8	\$399.60	12	\$693.36	0	\$0.00	32	\$2,633.80	\$82.31
B. Midway Plans Preparation															
Cay Map	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	2	\$115.56	0	\$0.00	2	\$115.56	\$17.78
Snow Plow Items/Notes	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	2	\$115.56	0	\$0.00	2	\$115.56	\$17.78
Typical Sections / Misc Const Details	0	\$0.00	0	\$0.00	2	\$196.02	0	\$0.00	2	\$115.56	0	\$0.00	4	\$311.58	\$77.90
Gen Notes/Utility Info	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	2	\$115.56	0	\$0.00	2	\$115.56	\$17.78
Sum of Quantities	0	\$0.00	0	\$0.00	4	\$392.04	4	\$199.80	8	\$463.36	0	\$0.00	16	\$1,134.08	\$70.88
Project Control	0	\$0.00	0	\$0.00	3	\$294.03	2	\$139.90	3	\$173.34	0	\$0.00	8	\$607.27	\$75.91
Plan / Profile Sheets	8	\$593.14	0	\$0.00	36	\$3,528.36	12	\$599.40	42	\$2,426.76	0	\$0.00	96	\$7,689.66	\$80.10
Traffic Calming Details	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	2	\$115.56	0	\$0.00	2	\$115.56	\$17.78
Cross Sections	0	\$0.00	0	\$0.00	12	\$1,176.12	12	\$599.40	40	\$2,311.20	0	\$0.00	64	\$4,326.72	\$67.61
Traffic Control Notes	0	\$0.00	0	\$0.00	2	\$196.02	0	\$0.00	2	\$115.56	0	\$0.00	4	\$311.58	\$77.90
Driveway Profiles	0	\$0.00	0	\$0.00	10	\$980.10	8	\$399.60	8	\$463.36	0	\$0.00	26	\$2,001.94	\$77.00
C. Utility Coord./Adjustments	0	\$0.00	0	\$0.00	0	\$0.00	2	\$139.90	4	\$231.12	2	\$90.28	8	\$461.34	\$37.67
D. Drainage Design/Analysis	0	\$0.00	0	\$0.00	48	\$4,704.48	32	\$2,338.40	20	\$1,155.60	0	\$0.00	100	\$8,098.48	\$80.98
E. Field Reviews	0	\$0.00	0	\$0.00	8	\$784.08	4	\$199.80	0	\$0.00	0	\$0.00	12	\$1,063.88	\$88.66
F. Environmental Permitting	0	\$0.00	0	\$0.00	8	\$784.08	0	\$0.00	4	\$231.12	4	\$180.64	16	\$1,193.84	\$74.74
TOTALS	104	\$1,491.90	0	\$0.00	141	\$13,913.41	84	\$3,878.80	150	\$8,840.34	6	\$274.94	394	\$30,398.41	\$76.90
Check Approvals Box															
TOTAL CONTRACT FEE COMPUTATION															
() Initial Estimate															
(x) Initial Estimate															
() Initial Estimate															
If revised estimate, give reasons for revisions:															
(a) Total Activity Salary Costs (MEE) \$30,298.41															
(b) Direct Expenses (Out-of-Pocket) (MEE) \$1,906.30															
(c) Landscaping Design (JCR) \$2,000.00															
(d) Design Survey (BS&AC) \$12,240.00															
(e) Geotechnical (GEC) \$7,072.82															
(f) Structural (AVCON) - includes structural borings \$16,240.00															
(g) Environmental Services (E&ES) \$3,548.48															
TOTAL LUMP SUM AMOUNT \$73,306.01															
G. Public Involvement	4	\$596.76	0	\$0.00	4	\$392.04	0	\$0.00	2	\$115.56	8	\$361.28	18	\$1,465.64	\$81.42
TOTAL LUMP SUM AMOUNT W/ PUBLIC INVOLVEMENT \$73,397.41															

MISCELLANEOUS & OUT-OF-POCKET EXPENSES
(METRIC ENGINEERING, INC.)
CONTINUING PROFESSIONAL ENGINEERING AND DESIGN SERVICES
CONTRACT # PS-5164-04

Project Name: Dyson Drive (Tuskawilla to Howell Creek)
Prepared By: Bill Anderson, PE

Task Work Order: Sidewalk Construction
Date: 5/25/2006

REPRODUCTION

	Sets	Xerox (11 x 17)	Xerox (8 1/2 x 11)	Mylar Plots (24 x 36)	Blueprints (24 x 36)
30% Submittal	0	0	0	0	0
60% Submittal	3	93	100	0	0
90% Submittal	3	93	100	0	0
100% Submittal	3	93	50	0	0
Final	7	217	50	0	0
Miscellaneous					
Permitting	3	93	20	0	0
Utilities	4	124	40	0	0
Public Involvement	4	124	200	0	14
Reports, Specifications		0	200	0	0
Administrative/Production		100	0	0	0
TOTAL SHEETS	0	27	937	760	14

COST:	Blueprint	=	14	Sheets x @	\$1.20 /Sheet	=	\$	16.80
	(11 x 17) Xerox	=	937	Sheets x @	\$0.20 /Sheet	=	\$	187.40
	(8 1/2 x 11) Xerox	=	760	Sheets x @	\$0.07 /Sheet	=	\$	53.20
	(24 x 36) Mylar	=	0	Sheets x @	\$24.00 /Sheet	=	\$	0.00
REPRODUCTION COST \$								257.40

TRAVEL (From Winter Park)

To Project:		TRIPS x		PEOPLE x		DAYS/TRIP	x \$	
(Per Diem)		TRIPS x		PEOPLE x	\$	PER TRIP	= \$	0.00
(Com)		TRIPS x		MILES x	\$	PER MILE	= \$	26.10
(Pov)	3	TRIPS x	30	DAYS/TRIP x	\$	DAILY RATE	= \$	0.00
(Rental)		TRIPS x						

To County:		TRIPS x		PEOPLE x		DAYS/TRIP	x \$	
(Per Diem)		TRIPS x		PEOPLE x	\$	PER TRIP	= \$	0.00
(Com)		TRIPS x		MILES x	\$	PER MILE	= \$	92.80
(Pov)	4	TRIPS x	80	DAYS/TRIP x	\$	DAILY RATE	= \$	0.00
(Rental)		TRIPS x						

TRAVEL

To Project:		TRIPS x		PEOPLE x		DAYS/TRIP	x \$	0.00
(Per Diem)		TRIPS x		PEOPLE x	\$	PER TRIP	= \$	0.00
(Com)		TRIPS x		MILES x	\$	PER MILE	= \$	0.00
(Pov)		TRIPS x		DAYS/TRIP x	\$	DAILY RATE	= \$	0.00
(Rental)		TRIPS x						

To County:		TRIPS x		PEOPLE x		DAYS/TRIP	x \$	0.00
(Per Diem)		TRIPS x		PEOPLE x	\$	PER TRIP	= \$	0.00
(Com)		TRIPS x		MILES x	\$	PER MILE	= \$	0.00
(Pov)		TRIPS x		DAYS/TRIP x	\$	DAILY RATE	= \$	0.00
(Rental)		TRIPS x						

TOTAL TRAVEL COST \$ 118.90

SHIP & TELEPHONE

5 months @

35.00

per mo. = \$

175.00

SHIPPING \$

175.00

MISCELLANEOUS

Film (24 exposure w/ developing)	0	exposure @ \$	14.98	ea. = \$	0.00
USGS Maps	0	@ \$	5.00	ea. = \$	0.00
Aerials	0	@ \$	11.00	ea. = \$	0.00
Tax Maps	0	@ \$	5.00	ea. = \$	0.00
Laminating (11 x 17)	0	sets @	5.00	ea. = \$	0.00
Post Binding	0	sets @	2.68	ea. = \$	0.00
Diskettes - CD	1	@	5.00	ea. = \$	5.00
Drilling	0	sheets	0.01	ea. = \$	0.00
Postage	75.00				
Public Meeting Site Rental	275.00				

TOTAL MISCELLANEOUS \$ 5.00

SUB-TOTALS \$ 906.30

PERMITTING AMOUNT

Permitting Fees = \$1,000.00 (Standard General ERP)

\$ 1,000.00

TOTAL EXPENSES \$ 1,906.30

Dyson Drive Sidewalk Plans
(Howell Creek to Shetland Avenue – 4,730 LF)

SCOPE OF SERVICES SUMMARY – The following services are anticipated to complete the 90% sidewalk construction plans for the portion of Dyson Drive inside of the City of Winter Springs.

A. DESIGN ANALYSIS / MEETINGS

- 1) FINAL CONSTRUCTION QUANTITIES AND CONSTRUCTION COST ESTIMATES
- 2) PROGRESS/COMMENT REVIEW MEETINGS WITH COUNTY/CITY (2 MEETINGS X 1 PEOPLE X 4 HRS EA)

B. SIDEWALK PLANS PREPARATION

- 1) KEY SHEET (1 SHEET)
- 2) SUMMARY OF PAY ITEMS / PAY ITEM NOTES (1 SHEET)
- 3) TYPICAL SECTION OF DYSON DRIVE / CONST DETAILS / GENERAL NOTES (1 SHEET)
- 4) SIDEWALK GENERAL NOTES (1 SHEET)
- 5) SUMMARY OF QUANTITIES (2 SHEETS)(EARTHWORK, SODDING, SIDE DRAINS, DRIVEWAYS)
- 6) PROJECT CONTROL SHEET – NOT REQUIRED
- 7) PLAN/PROFILE SHEETS (10 SHEETS) 1"=40' HALF SIZE (560 LF/SHT)
 - MINOR REVISIONS TO 90% PLANS TO ADDRESS FINAL PUBLIC COMMENTS (REVISED SIDEWALK LOCATIONS), PIPED SWALE CROSSINGS, DRIVEWAY AND SIDEDRAIN REPLACEMENT, RETAINING WALL LIMITS AND DETAILS, AND CROSSWALKS CROSSING SHETLAND AVENUE
- 8) LANDSCAPING / TRAFFIC CALMING DETAILS (1 SHEET)
 - SIGNING, PAVEMENT MARKING ONLY
 - LANDSCAPING BY OTHERS
- 9) CROSS-SECTIONS – NOT REQUIRED
- 10) TRAFFIC CONTROL NOTES (1 SHEET)
 - TYPICAL DETAILS, GENERAL NOTES, PHASING NOTES
- 11) DRIVEWAY PROFILES – NOT REQUIRED

C. UTILITY COORDINATION – NOT REQUIRED

D. DRAINAGE ANALYSIS – NOT REQUIRED

E. FIELD REVIEWS

- 1) 1 REVIEWS X 2 PEOPLE X 4 HRS EA.

F. ENVIRONMENTAL PERMITTING

- 1) SIDEWALK CONSTRUCTION PERMIT EXEMPTION PER F.A.C. 40C-42.0225 (PARAGRAPHS 5 & 6)

G. PUBLIC INVOLVEMENT – NOT REQUIRED

DESIGN SURVEY (SOUTHEASTERN SURVEYING & MAPPING) – PLEASE REFER TO ATTACHED FEE PROPOSAL (TASK II)

PLAN SUBMITTALS

- 1) 100% PLANS WITH FINAL QUANTITIES AND COST ESTIMATE

SCHEDULE (2 MONTHS)

NTP MEETING
DESIGN SURVEY
PREPARE 100% PLANS
COUNTY & CITY REVIEW
PREPARE AND SUBMIT ENVIRONMENTAL PERMIT APPLICATION
PREPARE AND SUBMIT FINAL PLANS TO COUNTY
SECURE ENVIRONMENTAL PERMIT EXEMPTION

WEEK 1
WEEK 1 THRU 2
WEEK 1 THRU 4
WEEK 5 THRU 6
WEEK 5
WEEK 7 THRU 8
WEEK 9

METRIC ENGINEERING, INC.
 2269 Lee Road, Winter Park, FL 32789
 Phone : 407-644-1898 / Fax 407-644-1921
 Contact : William V. Anderson, P.E., V.P. / email : wanderson@metriceng.com

ENGINEERING DIVISION

**SEMINOLE COUNTY DEPARTMENT OF PUBLIC WORKS
 SUMMARY FEE SHEET**

June 5, 2006

CONTRACT NO:	PS-5165-04/AJR	TWO NO.:	Dywan Drive Sidewalk Construction
CONTRACT DESCRIPTION:	Continuing Services for Professional Services	PROJECT DESCRIPTION:	From Howell Creek to Shalanda Avenue
PRIME CONSULTANT:	Metric Engineering, Inc. (MEI)		

ACTIVITY	Project Manager		Senior Engineer		Project Engineer		Senior Designer		Eng. Technician		Clerical		TOTAL		
	Rate/Hr:	\$149.19	Rate/Hr:	\$127.47	Rate/Hr:	\$96.01	Rate/Hr:	\$69.95	Rate/Hr:	\$57.78	Rate/Hr:	\$45.16	Man-hours By Activity	Salary Cost for Activity	Avg. Hourly Rate
	Man Hours	Cost by Pos & Act	Man Hours	Cost by Pos & Act	Man Hours	Cost by Pos & Act	Man Hours	Cost by Pos & Act	Man Hours	Cost by Pos & Act	Man Hours	Cost by Pos & Act			
A. Design Analysis/Meetings	4	596.76	0	0.00	4	392.04	0	0.00	0	0.00	0	0.00	24	2,010.64	83.78
B. Sidewalk Plans Preparation															
Key Map	0	0.00	0	0.00	0	0.00	0	0.00	2	115.56	0	0.00	2	115.56	57.78
Sum Pav Items/Notes	0	0.00	0	0.00	0	0.00	0	0.00	2	115.56	0	0.00	2	115.56	57.78
Typical Sections / Misc Const Details	0	0.00	0	0.00	2	196.02	0	0.00	2	115.56	0	0.00	4	311.58	77.90
Gen Notes/Utility Info	0	0.00	0	0.00	0	0.00	0	0.00	2	115.56	0	0.00	2	115.56	57.78
Sum of Quantities	0	0.00	0	0.00	4	392.04	4	279.80	0	0.00	0	0.00	16	1,134.08	70.88
Project Control	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0.00
Plan Sheets	4	596.76	0	0.00	12	1,176.12	4	279.80	20	1,155.60	0	0.00	40	3,208.28	80.21
Traffic Calming Details	0	0.00	0	0.00	0	0.00	0	0.00	2	115.56	0	0.00	2	115.56	57.78
Cross Sections	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0.00
Traffic Control Notes	0	0.00	0	0.00	2	196.02	0	0.00	2	115.56	0	0.00	4	311.58	77.90
Driveway Profiles	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0.00
C. Utility Coord/Adjustments	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0.00
D. Drainage Design/Analysis	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0.00
E. Field Reviews	0	0.00	0	0.00	4	392.04	0	0.00	0	0.00	0	0.00	4	392.04	98.01
F. Environmental Permitting	0	0.00	0	0.00	2	196.02	0	0.00	0	0.00	0	0.00	2	196.02	98.01
G. Public Involvement	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0.00
TOTALS	8	596.76	0	0.00	26	2,548.24	8	559.60	40	2,311.20	0	0.00	78	6,015.82	77.13
TOTAL CONTRACT FEE COMPUTATION															
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Check Appropriate Box</p> <p>() Initial Estimate</p> <p>(x) Initial Estimate</p> <p>() Initial Estimate</p> <p>If revised estimate, give reasons for revisions:</p> </div> <div style="width: 50%;"> <p>(a) Total Activity Salary Costs (MEI) 6,015.82</p> <p>(b) Direct Expenses (Out-of-Pocket) (MEI) 211.10</p> <p>(c) Landscaping Design (MCH) 0.00</p> <p>(d) Design Survey (ES&M/C) 3,760.00</p> <p>(e) Geotechnical (GEC) 0.00</p> <p>(f) Structural (AVCON) - Includes structural borings 0.00</p> <p>(g) Environmental Services (EMS) 0.00</p> <p>TOTAL LUMP SUM AMOUNT 99,986.92</p> </div> </div>															

MISCELLANEOUS & OUT-OF-POCKET EXPENSES
(METRIC ENGINEERING, INC.)
CONTINUING PROFESSIONAL ENGINEERING AND DESIGN SERVICES
CONTRACT # PS-5184-04

Project Name: Dyson Drive (Howell Creek to Shetland)
Prepared By: Bill Anderson, PE

Task Work Order: Sidewalk Construction
Date: 5/25/2006

REPRODUCTION

	Sets	Xerox (11 x 17)	Xerox (8 1/2 x 11)	Mylar Plots (24 x 36)	Bluelines (24 x 36)
30% Submittal	0	0	0	0	0
60% Submittal	0	0	0	0	0
80% Submittal	0	0	0	0	0
100% Submittal	4	72	100	0	0
Final	7	128	50	0	0
Miscellaneous					
Permitting	3	54	20	0	0
Utilities	0	0	0	0	0
Public Involvement	0	0	0	0	0
Reports, Specifications		0	0	0	0
Administrative/Production		50	0	0	0
TOTAL SHEETS	0	14	302	170	0

COST:	Blueline	=	0	Sheets x @	\$1.20 /Sheet	=	\$ 0.00
	(11 x 17) Xerox	=	302	Sheets x @	\$0.20 /Sheet	=	\$ 60.40
	(8 1/2 x 11) Xerox	=	170	Sheets x @	\$0.07 /Sheet	=	\$ 11.90
	(24 x 36) Mylar	=	0	Sheets x @	\$24.00 /Sheet	=	\$ 0.00
							REPRODUCTION COST \$ 72.30

TRAVEL (From Winter Park)

To Project:							
(Per Diem)	TRIPS x	PEOPLE x	DAYS/TRIP	x \$			
(Com)	TRIPS x	PEOPLE x \$	PER TRIP	= \$	0.00		
(Pov)	2 TRIPS x 30	MILES x \$	PER MILE	= \$	17.40		
(Rental)	TRIPS x (	DAYS/TRIP x \$	DAILY RATE	= \$	0.00		

To County:							
(Per Diem)	TRIPS x	PEOPLE x	DAYS/TRIP	x \$			
(Com)	TRIPS x	PEOPLE x \$	PER TRIP	= \$	0.00		
(Pov)	2 TRIPS x 80	MILES x \$	PER MILE	= \$	48.40		
(Rental)	TRIPS x (	DAYS/TRIP x \$	DAILY RATE	= \$	0.00		

TRAVEL

To Project:							
(Per Diem)	TRIPS x	PEOPLE x	DAYS/TRIP	x \$	0.00		
(Com)	TRIPS x	PEOPLE x \$	PER TRIP	= \$	0.00		
(Pov)	TRIPS x	MILES x \$	PER MILE	= \$	0.00		
(Rental)	TRIPS x (	DAYS/TRIP x \$	DAILY RATE	= \$	0.00		

To County:							
(Per Diem)	TRIPS x	PEOPLE x	DAYS/TRIP	x \$	0.00		
(Com)	TRIPS x	PEOPLE x \$	PER TRIP	= \$	0.00		
(Pov)	TRIPS x	MILES x \$	PER MILE	= \$	0.00		
(Rental)	TRIPS x (	DAYS/TRIP x \$	DAILY RATE	= \$	0.00		

TOTAL TRAVEL COST \$ 63.80

SHIP & TELEPHONE

2 months @

35.00 per mo. = \$ 70.00

SHIPPING \$ 70.00

MISCELLANEOUS

Film (24 exposure w/ developing)	0	exposure @ \$ 14.98	ea. = \$ 0.00
USGS Maps	0	@ \$ 5.00	ea. = \$ 0.00
Aerials	0	@ \$ 11.00	ea. = \$ 0.00
Tax Maps	0	@ \$ 5.00	ea. = \$ 0.00
Laminating (11 x 17)	0 sets @	\$ 5.00	ea. = \$ 0.00
Post Binding	0 sets @	\$ 2.65	ea. = \$ 0.00
Diskettes - CD	1 @	\$ 5.00	ea. = \$ 5.00
Drilling	0 sheets	\$ 0.01	ea. = \$ 0.00
Postage	0.00		

Public Meeting Site Rental 0.00

SUB-TOTAL \$ 211.10

PERMITTING AMOUNT

Permitting Fees = \$0.00

\$ 0.00

TOTAL EXPENSES \$ 211.10

James M. Dunn, II, P.S.M.
Brian R. Garvey, P.E.
Gary B. Krick, P.S.M.
Myron F. Lucas, P.S.M.
Thomas K. Mead, P.S.M.
Timothy Mosby, P.S.M.
James L. Petersen, P.S.M.
Larry W. Prescott, P.S.M.



William C. Rowe, P.S.M.
Marcia E. Russell, P.S.M.
George E. Snyder, P.S.M.
Roger Lonsway, P.S.M. (Retired)
Donna L. Canney, C.S.T., IV
Frank B. Henry, C.S.T., IV
David M. Rentfrow, C.S.T., IV
Celeste B. van Gelder, C.S.T., IV

Land Surveying & Mapping Services • Sub-Surface Utility Designation & Location Services • GPS Asset Inventories • Geographic Information Systems

June 3, 2006

VIA E-Mail: wanderson@metriceng.com

Mr. William V. Anderson, P.E.
Metric Engineering, Inc.
2269 Lee Road, Suite 200
Winter Park, FL 3278

RE: Dyson Drive Sidewalk Design
Section 13, Township 21 South, Range 30 East, Seminole County, Florida

Dear Mr. Anderson,

We are pleased to submit our Proposal for surveying services on the above referenced project.

SCOPE OF WORK:

Provide a Topographic Survey in accordance with Chapter 61G17-6 F.A.C. to include the following:

1. Locate all improvements and utilities, as evidenced by above ground features or as marked by the designated utility company representative.
2. Obtain spot elevations on natural ground and existing improvements suitable for interpolation of one foot contours to be shown on the final drawing.
3. Establish site benchmarks at 1000 foot intervals along the corridor .
4. Establish the R/W lines of Dyson Drive based on Record Plats, Monumentation, Occupation and coordination with Seminole County R/W Department Staff.
5. Topographic coverage will be limited to the following areas:

TASK I

- A. The full R/W of Dyson Drive plus 10 feet outside (Excluding the roadway pavement and median) from the easterly edge of pavement of Tuskawilla Road to the westerly bridge approach at Howell Creek.
- B. The full R/W of Dyson Drive from the westerly bridge approach at Howell Creek to 100 feet easterly of the easterly bridge approach at Howell Creek including bridge details and channel cross sections 50 feet north and south of the Dyson Drive R/W.

TASK II

- A. Full intersection survey at the Dyson Drive intersection with Shetland Avenue.
- B. Measure cross sections at 25 foot intervals easterly of Howell Creek between the edge of paving and R/W line plus 10 feet at the following locations:
 - 1. Station 254+60 to Station 256+00 Left
 - 2. Station 266+80 to Station 268+60 Left
 - 3. Station 270+00 to Station 272+00 Left
 - 4. Station 270+30 to Station 271+50 Right

Option I - Include all items above and the remaining un-included areas from the easterly edge of task 4B to Shetland Avenue between the outer edges of pavement to the R/W line plus 10 feet as well as 100 feet along intersecting side streets.

The final product will be two (2) certified prints, and an electronic file on disk for your use.

Our fee for the above referenced work will be as follows:

Topographic Survey	
TASK I	\$12,240.00
TASK II	\$3,760.00
Option I	\$28,010.00

We anticipate completion of the above described work within Five (5) weeks after receipt of a written notice to proceed. Payment is expected within thirty (30) days of invoice.

We look forward to the opportunity to work with you on this project.

Sincerely,



James L. Petersen, P.S.M.
Vice President/Project Manager
JLP:jlp