

TASK ORDER No. 16

Dated this _____ day of _____, 2017

CITY PROJECT No. 12104

FORT LAUDERDALE PUBLIC WORKS DEPARTMENT

**FORT LAUDERDALE EXECUTIVE AIRPORT
DESIGN SERVICES FOR WEST PERIMETER LOOP ROAD**

PROFESSIONAL SERVICES

This Task Order between the City of Fort Lauderdale, a municipal corporation ("CITY") and HDR Engineering, Inc., a Nebraska corporation authorized to transact business in the State of Florida ("CONSULTANT") is pursuant to the Agreement for General Engineering Aviation Consulting Services dated August 19, 2014, extended by City Commission on June 21, 2016 and expiring on August 18, 2017 ("MASTER AGREEMENT").

PROJECT BACKGROUND

This Task Order is for providing Professional Engineering Services to develop plans and contract specifications to construct an approximately 4,300 linear foot loop perimeter road on the western property of Fort Lauderdale Executive Airport (FXE) (Exhibit B). Currently, airport tenant vehicles on the north and south side of FXE cross the western approach end of the runway in order to relocate equipment as well as provide fuel for aircraft. These crossings affect aircraft operations and airfield traffic, in addition to increasing the possibility of unauthorized incursions and traffic delays. The proposed road will eliminate these crossings, minimize the potential for runway incursions, and enhance airfield operations.

SPECIFIC SCOPE OF SERVICES

The project requires professional engineering services for civil/site, survey, environmental, and geotechnical investigation. CONSULTANT (site/civil), along with their sub-consultants, Tierra South Florida (geotechnical), and Keith and Associates, Inc. (survey) shall develop contract documents to address the scope described above.

Services to be provided by CONSULTANT shall include the following tasks:

Task 1.0 Schematic Design Documents (30% Submittal)

CONSULTANT shall develop schematic design documents to present to airport staff and establish communications with the parties and agencies known to CONSULTANT that will be involved or affected by the project. Drawings will be in AutoCAD based on CITY's current CAD standards. Technical specifications, engineer's report, and other written documents will be in Word format. Designs will be in accordance with and will conform to Florida Department of Transportation (FDOT) guidelines. The engineering report will conform to a typical FDOT format.

Specific tasks shall consist of the following:

1. Attend pre-design meeting with airport staff to formally define project elements and project issues.
2. Define and perform field survey and geotechnical investigation.
3. Determine environmental issues and impacts.
4. Develop preliminary design options.
5. Develop schematic design documents.
6. Prepare an order of magnitude opinion of probable construction cost based on 30% plans.
7. Develop conceptual construction schedule.
8. Prepare draft outline of technical specifications for the project.
9. Prepare draft outline of the engineer's report.
10. Develop preliminary construction phasing and construction staging plans.
11. Submit plans and conduct one (1) design review and coordination meeting with airport staff to review schematic design plans.

Deliverables:

CONSULTANT shall provide the following for CITY review and written approval:

- 30% preliminary drawings and outline specifications.
- Outline of engineer's report.
- Order of magnitude opinion of probable construction cost.
- Two (2) copies of geotechnical report, signed and sealed.
- Signed and sealed survey, completed in NAVD88 vertical datum.
- Agenda and minutes of all meetings.
- CAD files of 30% plans to verify conformance with current CITY CAD standards along with plot files (24"x36") in pdf format.

Task 2.0 Design Development Documents (60% Submittal)

CONSULTANT shall provide design development documents necessary to achieve approximately 60% design completion of the above improvements that shall consist of construction drawings, technical specifications, and engineer's report.

Specific tasks shall consist of the following:

1. Develop Design Development drawings for roadway geometry, pavement sections, signage and pavement striping.
2. Perform preliminary quantity take off.
3. Prepare draft technical specifications for the project.
4. Prepare draft engineer's report.
5. Prepare an order of magnitude opinion of probable construction cost based on the 60% plans.
6. Prepare a conceptual construction schedule.
7. Submit design development documents to the CITY for review.
8. Conduct one (1) design development review and coordination meeting with airport staff and address staff comments.

Deliverables:

CONSULTANT shall provide the following for CITY review and written approval:

- CAD files of 60% plans to verify conformance with current CITY CAD standards along with plot files (24"x36") in pdf format.
- 60% design development drawings.
- Draft technical specifications.
- Draft engineer's report.
- Draft construction schedule.
- Order of magnitude opinion of probable construction cost.
- Agenda and minutes of all meetings.

Task 3.0 Construction Documents (100% Submittal)

CONSULTANT shall continue design and construction documents to 100% completion that shall consist of construction drawings, technical specifications, and engineer's report.

Specific tasks shall consist of the following:

1. Finalize 100% drawings based on comments received from Task 2.0.
2. Finalize opinion of probable construction cost.
3. Finalize engineer's report in accordance with FDOT's Guideline for Plan Development, latest edition.
4. Finalize technical specifications.
5. Finalize construction schedule.
6. Finalize bid forms and bid (csv) file with final quantities.
7. Conduct one (1) review meeting with airport staff and address staff comments.
8. Provide plans, construction documents, and certifications for CITY to submit to the FDOT for approval and authorization to advertise for bids.

Deliverables:

CONSULTANT shall provide the following for CITY review and written approval:

- CAD files of 100% plans to verify conformance with current CITY CAD standards along with plot files (24"x36") in pdf format.
- Plan set – One copy signed and sealed.
- Engineer's report – One copy signed and sealed with Word and pdf files.
- Bid documents in Word and pdf format.
- Opinion of probable construction cost and construction schedule.
- Agenda and minutes of all meetings.

The anticipated sheets to be included in the construction drawings are as follows:

<u>Construction Set</u>	<u>Description</u>
1	Cover sheet
2	General notes and drawing index
3	Quantity summary & utility contacts
4	Key plan and project limits
5	Survey sheets
6	Geotechnical bores
7	SWPPP plans and notes
8	Construction phasing sheet
9	Civil plans and details

Task 4.0 Sub-consultant Services

GEOTECHNICAL INVESTIGATION & MATERIALS TESTING

Geotechnical investigation will be performed as required to establish the soil parameters for design of the proposed road. Tierra South Florida shall provide the following services and submit signed and sealed geotechnical data report in hardcopy and pdf format:

Field Investigation:

- Eight (8) standard penetration test (SPT) borings to ten feet below existing grade to determine soil profile.
- Visual classification of the soils encountered.
- Depth to ground water and estimated depth to seasonal high ground water.
- Obtain soil samples for laboratory testing.

Laboratory Testing:

Perform testing on soil samples representing each distinctly different soil type or strata

- Grain size analysis
- Atterberg Limits
- Moisture-Density relationship

Deliverables:

Sub-consultant shall provide the following for CITY review and written approval:

- Geotechnical Services Report – Two (2) copies signed and sealed with pdf files.

FIELD SURVEY AND MAPPING

Field surveying will provide up-to-date field mapping of the proposed project site. Keith and Associates, Inc., as a subconsultant, will perform field survey to develop topographic base mapping for the project.

The following services will be provided:

- Set adequate project horizontal control and references. Establish baselines for the loop road.
- Set project benchmarks.
- Perform a topographic survey within the survey limits to locate all above-ground features and all evidence of below-ground features using NAVD88 datum.
- Obtain elevations within the survey limits using a 50-foot grid.
- Locate and obtain surface elevations at soil borings.
- Confirm horizontal and vertical control prior to construction.
- Locate and identify gopher tortoise and/or burrowing owl nests within 50 feet of the survey limits.

Deliverables:

Sub-consultant shall provide the following for CITY review and written approval:

- Electronic CAD files in accordance with CITY CAD standards and two (2) signed and sealed hardcopies of survey.

Task 5.0 Species Survey

There is a possibility that prior to, or during construction, burrowing owls/gopher tortoises could burrow, or attempt to burrow, within or near the construction zone. The gopher tortoises and burrowing owls are protected and require two separate permit authorizations from the Florida Fish and Wildlife Conservation Commission (FWC). The gopher tortoise requires utilization of a permitted/authorized gopher tortoise agent, which CONSULTANT shall provide. CITY wishes to remain diligent and compliant in the event that either of these species come into conflict with the construction. To support this effort, CITY has requested that CONSULTANT be prepared to conduct a survey and, if required, prepare removal permits to collapse empty owl burrows and relocate tortoises to an off-site mitigation bank. CONSULTANT shall perform the following services:

1. Perform a GPS survey at sunrise and sunset to GPS the location of burrowing owl nests shown on the field survey and within the project footprint. CONSULTANT shall prepare necessary maps and reports outlining the survey methodology and findings. CONSULTANT shall prepare a Statement of Findings report that includes survey methodology, digital photographs, findings, species presence, summary of protection options to evaluate if nest removal is required, and scaled graphic maps of burrow locations or species observed.
2. Perform a GPS survey during daylight hours to GPS the location of tortoise burrows shown on the field survey and within the project footprint. CONSULTANT shall prepare necessary maps and reports outlining the survey methodology and findings. CONSULTANT shall prepare a Statement of Findings report that includes survey methodology, digital photographs, findings, species presence, summary of protection options, and scaled graphic maps of burrows or species observed.
3. If required, CONSULTANT shall prepare permit applications for processing a gopher tortoise conservation permit to relocate the affected tortoises to a permitted recipient mitigation bank through the FWC. CONSULTANT shall also process a Migratory Bird Nest Removal Permit application through FWC for the destruction of burrowing owl nests that have been cleared of owls. It is assumed the burrowing owls will be relocated on-site, and the gopher tortoise to a permitted off-site gopher tortoise recipient bank. The mitigation bank site to be used will be determined and the name provided to CITY at the time of the report based upon availability and costs.

Deliverables:

CONSULTANT shall provide the following for CITY review and written approval:

- Statement of Findings report for owl/tortoise burrows in Word and pdf format.
- Permit applications.
- Cost estimate for gopher tortoise(s) relocation to recipient site.

Task 6.0 Bidding Phase Services

CONSULTANT shall assist CITY during the bid phase of the project. CONSULTANT shall perform the following tasks:

1. Attend and conduct (1) pre-bid meeting with potential bidders and affected agencies and provide meeting minutes.

2. Respond to bidder's questions in the form of written addenda as needed to interpret, clarify, or expand the Bid Documents.

PROJECT ASSUMPTIONS

1. Plans will be in conformance with CITY's current CAD standards. CONSULTANT shall work with CITY to provide modifications to CAD standards to be used.
2. Front-end documents, advertisement, general provisions, and related documents will be provided by CITY. CONSULTANT will provide actual bid proposal forms (csv files), technical specifications, the engineer's report, and other written documents in Word. Designs will be in accordance with FDOT guidelines. Certification of the above will be provided by CONSULTANT.
3. CITY will provide existing plan data and as-built drawings of utilities, fiber optic and previous construction plans as required for the project upon which CONSULTANT may rely during the design of the project.
4. Airspace review and coordination with the Federal Aviation Administration is excluded from this task order and will be addressed by CITY.
5. If requested by CITY, CONSULTANT shall provide CITY with a marked-up set of plans and/or specifications showing CONSULTANT's Q.C. review corrections and comments.
6. CONSULTANT shall submit a final project schedule to CITY, for approval, within 10 business days after receiving the Notice-to-Proceed and prior to beginning work. No work shall commence without an approved schedule. The final schedule shall include design, permitting activities, submittal review timeframes, and other project activities as required to complete the work. CONSULTANT shall submit updated project schedules as required in the specific scope of services.

ADDITIONAL SERVICES

If authorized in writing by the CITY as an amendment to this Task Order, CONSULTANT shall furnish, or obtain, Additional Services of the types listed in Article 8 of the MASTER AGREEMENT. CITY, as indicated in the MASTER AGREEMENT, will pay for these services.

PERFORMANCE SCHEDULE

CONSULTANT shall perform the services identified in Tasks 1 through 5, inclusive, within 70 working days of written Notice to Proceed, not inclusive of CITY review time. Services for Task 6 will be dependent on CITY bidding schedule.

PROJECT FUNDING

Performance of this project is at CITY's discretion and may be contingent upon receipt by CITY of funding from the FDOT under the applicable Joint Participation Agreement, and the airport's approved Community Investment Plan, respectively, and work shall not begin until funding sources for this project are in place.

METHOD OF COMPENSATION

The services performed will be accomplished using the Not-to-Exceed method of compensation. Reimbursable expenses associated with these services are not included in the fees and will be itemized separately, subject to an established Not-to-Exceed limit. The total hourly rates

payable by CITY for each of CONSULTANT's employee categories, reimbursable expenses and sub-consultant fees are shown on Exhibit "A" attached hereto and made a part hereof.

TERMS OF COMPENSATION

Services will be provided for the following Not-to-Exceed amounts:

Task No.	Task Title	HDR Labor	Subconsultant Labor	Total
1	Schematic Design (30%)	\$ 4,292.50	\$ -	\$ 4,292.50
2	Design Development (60%)	\$ 6,392.00	\$ -	\$ 6,392.00
3	Construction Documents (100%)	\$ 5,244.50	\$ -	\$ 5,244.50
4	Subconsultant Services	\$ 480.25	\$ -	\$ 480.25
	Tierra South Florida	\$ -	\$ 6,035.00	\$ 6,035.00
	Keith & Associates, Inc.	\$ -	\$ 9,070.00	\$ 9,070.00
5	Species Survey	\$17,340.00	\$ -	\$ 17,340.00
6	Bidding Services	\$ 922.25	\$ -	\$ 922.25
	Sub-Total	\$34,671.50	\$ 15,105.00	\$ 49,776.50
	Reimbursable Expenses	\$ 1,000.00	\$ -	\$ 1,000.00
	Total	\$35,671.50	\$ 15,105.00	\$ 50,776.50

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CITY CONTACTS

Requests for payments should be directed to City of Fort Lauderdale Accounts Payable via e-mail to acctspayable@fortlauderdale.gov. All other correspondence and submittals should be directed to the attention of Fernando Blanco, Airport Engineer/Project Manager II, at the address shown below. **Please be sure that all correspondence refers to the City project number and title as stated above.**

Fernando Blanco
Airport Engineer/Project Manager II
City of Fort Lauderdale
City Hall, 5th Floor Engineering
100 North Andrews Avenue
Fort Lauderdale, FL 33301
Email: fblanco@fortlauderdale.gov
Phone: 954-828-6536
Fax: 954-828-5074

Jill Prizlee, P.E.
Senior Project Manager
City of Fort Lauderdale
City Hall, 4th Floor Engineering
100 North Andrews Avenue
Fort Lauderdale, FL 33301
Email: jprizlee@fortlauderdale.gov
Phone: 954-828-5962
Fax: 954-828-5074

CONSULTANT CONTACTS

HDR Engineering, Inc.
3250 West Commercial Blvd.
Suite 100
Fort Lauderdale, FL 33309
John Neff, P.E., Senior Project Manager
Email: John.Neff@hdrinc.com
Phone: 954-233-4915
Fax: 954-233-4953

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IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first written above.

CITY

ATTEST:

CITY OF FORT LAUDERDALE, a municipal
corporation of the State of Florida.

JEFFREY A. MODARELLI
City Clerk

LEE R. FELDMAN, City Manager

(SEAL)

Approved as to form:

RHONDA MONTOYA HASAN
Assistant City Attorney

CONSULTANT

WITNESESS:

HDR ENGINEERING, INC.,
A Nebraska Corporation authorized to
transact business in the State of Florida

Signature:

By:_____
Christine Kefauver
Vice President

Print Name:

Signature:

Print Name:

ATTEST:

Bonnie J. Kudron
Assistant Secretary

(CORPORATE SEAL)

STATE OF _____:
COUNTY OF _____:

The foregoing instrument was acknowledged before me this _____ day of _____, 2017, by Christine Kefauver as Vice President for HDR Engineering, Inc., a Nebraska corporation authorized to transact business in the State of Florida.

(SEAL)

Notary Public, State of Florida
(Signature of Notary Public)

Name of Notary Typed, Printed or Stamped

Personally Known ____ OR Produced Identification_____

Type of Identification Produced _____

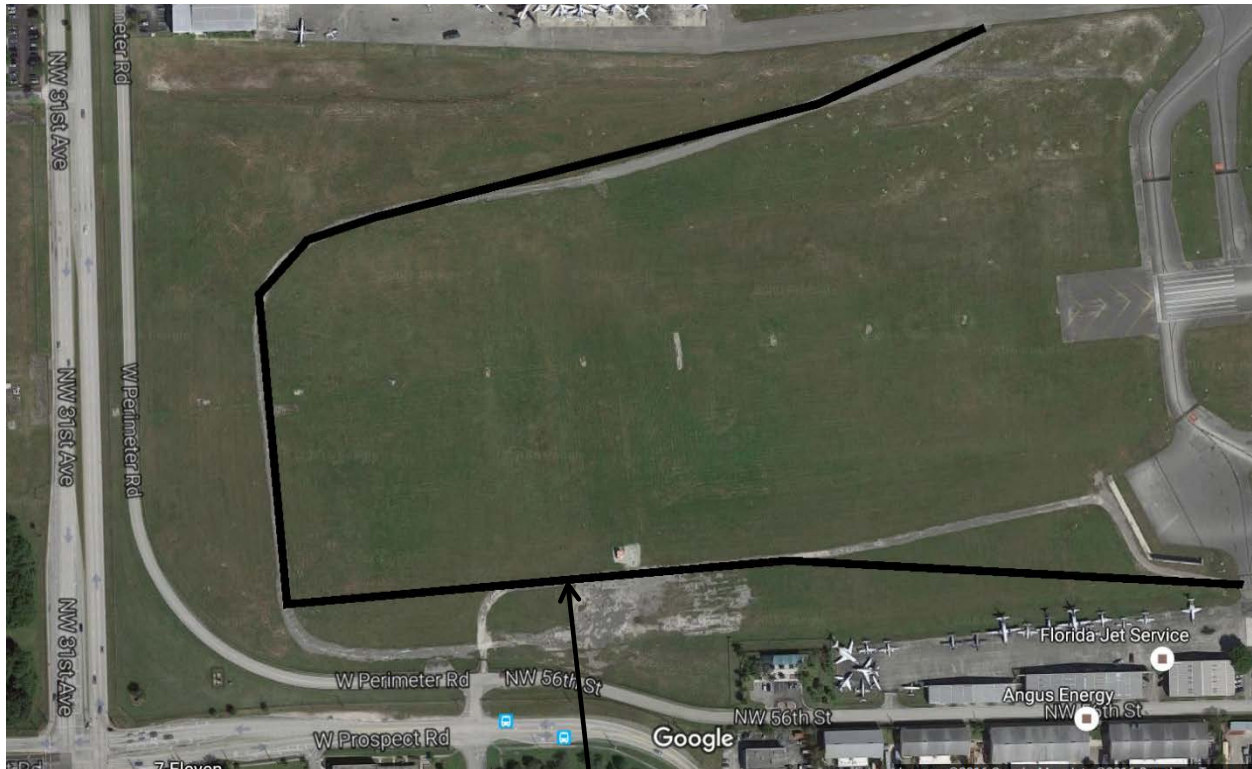
EXHIBIT A

EXHIBIT NO. A TO FORM OF CONTRACT			Sr. Project Manager	Sr. Env. Scientist	Senior Civil	Senior Designer	GIS Specialist	Sr. Admin. Asst.	Total Hours	Labor Cost
HDR Engineering, Inc.			\$212.50	\$170.00	\$165.75	\$102.00	\$85.00	\$63.75		
TASK DESCRIPTION										
Task 1- 30% Design										
1	Attend Preconstruction meeting	1				1			2	\$ 314.50
2	Define and perform field survey and geotechnical services					2			2	\$ 204.00
3	Determine environmental issues and impacts					2			2	\$ 204.00
4	Develop preliminary design options				2	4			6	\$ 739.50
5	Develop schematic design documents				1	8			9	\$ 981.75
6	Develop a OOM option of probable construction cost				1	2			3	\$ 369.75
7	Develop conceptional construction schedule					1			1	\$ 102.00
8	Prepare draft outline of Technical specifications					1			1	\$ 102.00
9	Develop draft outline of Engineer's report				1	3			4	\$ 471.75
10	Develop preliminary construction phasing and staging plans				1	4			5	\$ 573.75
11	Submit plans and conduct one (1) review and coordination meeting	1				2		2	5	\$ 544.00
	Subtotal	2.0	0.0	6	30	0	2	40	\$ 4,292.50	
Task 2- 60% Design										
1	Develop design development dwgs for roadway geometry, pavement sections, and signage and striping	1			6	24			31	\$ 3,655.00
2	Perform preliminary quantity takeoff				1	4			5	\$ 573.75
3	Prepare draft technical specifications				1	4			5	\$ 573.75
4	Prepare draft engineer's report				1	4			5	\$ 573.75
5	Develop a OOM option of probable construction cost for 60% plans					2			2	\$ 204.00
6	Prepare conceptional construction schedule					1			1	\$ 102.00
7	Submit design development docs to City for review					1		2	3	\$ 229.50
8	Conduct one (1) design development review with airport staff	1			1	1			3	\$ 480.25
	Subtotal	2	0	10	41	0	2	55	\$ 6,392.00	
Task 3- 100% Design										
1	Finalize 100% design drawings based on comments Phase 2	1			2	16			19	\$ 2,176.00
2	Finalize opinion of probable construction cost				1	3			4	\$ 471.75
3	Finalize Engineer's Report per FDOT guidelines				1	2			3	\$ 369.75
4	Finalize technical specifications				1	3			4	\$ 471.75
5	Finalize construction schedule				1	2			3	\$ 369.75
6	Finalize bid forms with final quantities					2			2	\$ 204.00
7	Conduct one (1) review meeting with airport staff to address comments	1				1			2	\$ 314.50
8	Prepare plans, construction documents and certifications to City				2	4		2	8	\$ 867.00
	Subtotal	2	0	8	33	0	2	45	\$ 5,244.50	
Task 4 - Sub-consultant services										
1	sub-consultant coordination	1				2		1	4	\$ 480.25
	Subtotal	1		0	2		1	4	\$ 480.25	
Task 5- Species survey										
1	Burrowing owl survey			55			12		67	\$ 10,370.00
2	Gopher tortoise survey			12			12		24	\$ 3,060.00
3	Permit applications			18			10		28	\$ 3,910.00
	Subtotal	0	85	0	0	12	0	97	\$ 17,340.00	
Task 5 - Bidding Phase Services										
1	Attend one (1) Pre-Bid Conference	1				1		1	3	\$ 378.25
2	Responses to Bidder's Questions	1				2		2	6	\$ 544.00
	Subtotal	2	0	0	3	0	3	9	\$ 922.25	
	Raw Labor Subtotal	8	0	24	107	0	9	149	\$ 34,671.50	
SUBCONSULTANT EXPENSES										
A. Specialty Subconsultants-Design										
	Tierra South Florida, Inc.									\$6,035.00
	Keith & Associates, Inc.									\$9,070.00
TOTAL SUBCONSULTANT EXPENSES										\$15,105.00
REIMBURSABLE EXPENSES										
	A Postage, Express, Courier									\$0.00
	B. Plots									\$0.00
	C. Prints-Plan Sheets									\$0.00
	D. Printing-Reports and Specifications									\$1,000.00
										\$1,000.00
TOTAL PROJECT FEE										\$50,776.50

TIERRA SOUTH FLORIDA, INC.							
UNIT RATE FEE SCHEDULE							
		Unit	# of Units		Unit Price		Total
I.	FIELD INVESTIGATION						
	Mobilization of Men and Equipment						
	Truck-Mounted Equipment	LS	1	\$	350.00	\$	350.00
	Support Vehicle	DAY	1	\$	150.00	\$	150.00
	Standard Penetration Test Borings (By Truck-Mounted Equipment)						
	Land: 0 - 50 ft depth	L.F.	80	\$	12.00	\$	960.00
	Grout-Seal Boreholes (By Truck-Mounted Equipment)						
	Land: 0 - 50 ft depth	L.F.	80	\$	4.50	\$	360.00
II.	LABORATORY TESTING						
	Natural Moisture Content Tests	Test	5	\$	10.00	\$	50.00
	Grain-Size Analysis - Full Gradation	Test	4	\$	65.00	\$	260.00
	Organic Content Tests	Test	4	\$	35.00	\$	140.00
	LBR	Test	3	\$	275.00	\$	825.00
III	ENGINEERING/COORDINATION/MANAGEMENT						
	Project Manager	Hour	1	\$	165.00	\$	165.00
	Senior Engineer	Hour	2	\$	125.00	\$	250.00
	Project Engineer	Hour	8	\$	100.00	\$	800.00
	Senior Technician	Hour	10	\$	75.00	\$	750.00
	CADD	Hour	3	\$	75.00	\$	225.00
						\$	6,035.00

KEITH AND ASSOCIATES PROPOSAL FEES						
Our Project/Proposal Number		09734.M0	Personnel and Hourly Rates			Task Subtotals
Proposal Date		12/1/2016	11	80	81	
Tasks			CADD Technician	Professional Surveyor & Mapper (PSM)	Survey Party (2) Person	
No.	Description		\$80.00	\$120.00	\$95.00	
001	Topo Survey		30	16	50	\$ 9,070.00
Personnel Hours			30	16	50	\$ 9,070.00
Personnel Cost			\$ 2,400.00	\$ 1,920.00	\$ 4,750.00	
Personnel Subtotal		\$ 9,070.00				
Miscellaneous Expenses		\$ -				
Direct Expenses		\$ -				
GRAND TOTAL		\$ 9,070.00				

EXHIBIT B



PROJECT LOCATION