



City of Jonesboro

Municipal Center
300 S. Church Street
Jonesboro, AR 72401

Meeting Agenda Public Works Council Committee

Tuesday, June 7, 2016

5:00 PM

Municipal Center

1. Call To Order

2. Roll Call by City Clerk Donna Jackson

3. Approval of minutes

[MIN-16:051](#) Minutes of Public Works Committee Meeting on May 3, 2016

Attachments: [Minutes](#)

4. New Business

Resolutions To Be Introduced

[RES-16:067](#) A RESOLUTION TO THE CITY OF JONESBORO, ARKANSAS TO AUTHORIZE THE MAYOR AND CITY CLERK TO ACCEPT A PERMANENT DRAINAGE EASEMENT FROM DELANEX, INC. (JORGE DE LA GARZA) FOR THE PURPOSE OF MAKING DRAINAGE IMPROVEMENTS

Sponsors: Engineering

Attachments: [Permanent Drainage Easement](#)

[RES-16:072](#) A RESOLUTION TO THE CITY OF JONESBORO, ARKANSAS TO ENTER INTO AN AGREEMENT WITH FISHER & ARNOLD, INC. TO PERFORM PROFESSIONAL ENGINEERING SERVICES

Sponsors: Engineering

Attachments: [Proposal](#)

5. Pending Items

6. Other Business

7. Public Comments

8. Adjournment



City of Jonesboro

300 S. Church Street
Jonesboro, AR 72401

Legislation Details (With Text)

File #: MIN-16:051 **Version:** 1 **Name:**
Type: Minutes **Status:** To Be Introduced
File created: 5/4/2016 **In control:** Public Works Council Committee
On agenda: **Final action:**
Title: Minutes of Public Works Committee Meeting on May 3, 2016
Sponsors:
Indexes:
Code sections:
Attachments: [Minutes](#)

Date	Ver.	Action By	Action	Result
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Minutes of Public Works Committee Meeting on May 3, 2016



City of Jonesboro

Municipal Center
300 S. Church Street
Jonesboro, AR 72401

Meeting Minutes Public Works Council Committee

Tuesday, May 3, 2016

5:00 PM

Municipal Center

1. Call To Order

2. Roll Call by City Clerk Donna Jackson

Mayor Perrin was also in attendance.

Present 6 - Gene Vance;Chris Moore;John Street;Mitch Johnson;Darrel Dover and Ann Williams

Absent 1 - Charles Coleman

3. Approval of minutes

MIN-16:038

Minutes for the Public Works Committee meeting on April 5, 2016

A motion was made by Councilman Mitch Johnson, seconded by Councilman Darrel Dover, that this matter be Passed . The motion PASSED with the following vote.

Aye: 5 - Gene Vance;Chris Moore;Mitch Johnson;Darrel Dover and Ann Williams

Absent: 1 - Charles Coleman

4. New Business

Resolutions To Be Introduced

RES-16:049

A RESOLUTION TO THE CITY OF JONESBORO, ARKANSAS TO ACCEPT THE LOW BID AND ENTER INTO A CONTRACT WITH LAKESIDE CONTRACTORS, LLC FOR THE RACE STREET DRAINAGE IMPROVEMENTS - PHASE III - (2016:20)

Mayor Harold Perrin stated the project will go all the way up to Sonic and actually complete the phase. He stated that with the weather we have had, the city would like to forward this item and the next item on the agenda to the council for two weeks so we can go ahead and get construction started. Mayor Perrin stated that the city needs to go ahead and get the precon started, get the bids, and get started on the project. Councilman Darrel Dover asked Mayor Perrin if the council needed to go ahead and walk them on this evening. Mayor Perrin said that it would be nice if they could do it.

A motion was made by Councilman Darrel Dover, seconded by Councilwoman Ann Williams, that this matter be Recommended to Council . The motion PASSED with the following vote.

Aye: 5 - Gene Vance;Chris Moore;Mitch Johnson;Darrel Dover and Ann Williams

Absent: 1 - Charles Coleman

RES-16:052

A RESOLUTION TO THE CITY OF JONESBORO, ARKANSAS TO ACCEPT THE LOW BID AND ENTER INTO A CONTRACT WITH ALL SCAPES IRRIGATION & LAWN CARE, LLC FOR THE BELT STREET SIDEWALK (BID NO. 2016:21)

Chairman John Street asked the Mayor if this resolution was another one that needed to be walked on. The mayor stated it was something that could be waited on until the next council meeting in two weeks. He stated the Belt Street sidewalk is a CDBG project. Mayor Perrin reiterated that the Race Street project really needs to be started on. The recent rains caused flooding in the area and people had to be taken by boat out of the area. He said the quicker we get on this, the better.

A motion was made by Councilman Darrel Dover, seconded by Councilman Mitch Johnson, that this matter be Recommended to Council . The motion PASSED with the following vote.

Aye: 5 - Gene Vance;Chris Moore;Mitch Johnson;Darrel Dover and Ann Williams

Absent: 1 - Charles Coleman

5. Pending Items

RES-16:036

RESOLUTION BY THE CITY COUNCIL OF THE CITY OF JONESBORO, ARKANSAS AUTHORIZING THE MAYOR TO ENTER INTO AN AMENDED AGREEMENT WITH ABILITIES UNLIMITED OF JONESBORO, INC. TO PERFORM RECYCLING SERVICES FOR THE RESIDENTS OF THE CITY

Chairman Street asked Mayor Perrin about his request to continue use of blue bags. Mayor Perrin stated they had enough blue bags to get started. He said that this agreement was for an increase in the monthly \$4,000 payment to Abilities Unlimited. He further stated that City Attorney Carol Duncan added two trucks on the contract. He said this contract would be exactly what we would be entering into. The Legacy Landfill starts assessing additional \$.50 fees on May 1, 2016. Mayor Perrin stated that we are ready to go on this contract and the City Attorney has approved it.

A motion was made by Councilman Darrel Dover, seconded by Councilwoman Ann Williams, that this matter be Recommended to Council . The motion PASSED with the following vote.

Aye: 5 - Gene Vance;Chris Moore;Mitch Johnson;Darrel Dover and Ann Williams

Absent: 1 - Charles Coleman

6. Other Business

Councilman Dover motioned, seconded by Councilman Vance, to suspend the rules and place RES-16:058 on the agenda. All voted aye.

RES-16:058

A RESOLUTION OF THE CITY OF JONESBORO, ARKANSAS TO ENTER INTO AN AGREEMENT WITH FISHER & ARNOLD ENVIRONMENTAL

Chairman Street stated there was a walk on resolution. He said that RES-16:058 is to enter into an agreement with Fisher and Arnold for an Environmental Study on the proposed Firing Range Project. Finance Director Suzanne Allen said that prior to the Arkansas Game and Fish Commission being able to give the city a Memo of Understanding, they required the city to have an environmental study done on the

project. She stated that the city just received the quote this week. Ms. Allen inquired with City Engineer Craig Light and she confirmed said that the environmental assessment will take 30-60 days. She said the AGFC has until the end of June to partner with us on the project due to grant money and their year ending in June. Chairman Street asked if this was the \$2 million. Ms. Allen said yes. Chairman Street asked if this was being pushed because of their timeframe. She said yes it is because of their time frame and not the city's. The Mayor stated their fiscal year ends and that is grant money they already have. Ms. Allen said they are waiting on the Memo of Understanding until they get the environmental study. Councilman Dover asked if it needed to be walked on this evening and she stated yes.

A motion was made by Councilman Darrel Dover, seconded by Councilman Gene Vance, that this matter be Recommended to Council . The motion PASSED with the following vote:

Aye: 5 - Gene Vance;Chris Moore;Mitch Johnson;Darrel Dover and Ann Williams

Absent: 1 - Charles Coleman

7. Public Comments

Mr. Phillip Cook, 5216 Richardson Drive, asked about the Race Street project. He stated that he spoke with a lady that was wondering when this project would start and end. Mayor Perrin stated that this was it. Councilman Gene Vance stated that was why this was emergent. Chairman Street asked if City Engineer Craig Light could come to the podium and speak about the project. Mr. Light stated that this was the third phase of the Race Street project. He stated that box culverts have already been installed. He also said that they are transitioning down to a 48 inch pipe and the unit cost has gone down. The pipelines are going in starting at Fairfield and going all the way to Stadium Boulevard. Chairman Street asked Mr. Light what the completion timeline would be. Mr. Light said construction should start sometime after school lets out. He said the precon needs to get done so construction can start immediately after school lets out. Chairman Street stated that Mr. Cook's concern is when the project will be completed. Mr. Light He said it should be done this summer and should be a 60 day project. Councilman Dover asked if this would give sidewalks. Mr. Light stated that this is a drainage project, not a sidewalk project. Chairman Street said this project would put culverts in the ditch and it would be covered up to widen Race. He stated it would run all the way up to Sonic. Mr. Light stated that any sidewalk that is damaged because of this project will be repaired. Chairman Street asked Mr. Cook if that was what he needed to know. Mr. Cook said yes.

8. Adjournment

A motion was made by Councilman Darrel Dover, seconded by Councilman Mitch Johnson, that this meeting be Adjourned . The motion PASSED with the following vote.

Aye: 5 - Gene Vance;Chris Moore;Mitch Johnson;Darrel Dover and Ann Williams

Absent: 1 - Charles Coleman



Legislation Details (With Text)

File #:	RES-16:067	Version:	1	Name:	Permanent drainage easement from Delanex, Inc.
Type:	Resolution	Status:		Status:	To Be Introduced
File created:	5/23/2016	In control:		In control:	Public Works Council Committee
On agenda:		Final action:		Final action:	
Title:	A RESOLUTION TO THE CITY OF JONESBORO, ARKANSAS TO AUTHORIZE THE MAYOR AND CITY CLERK TO ACCEPT A PERMANENT DRAINAGE EASEMENT FROM DELANEX, INC. (JORGE DE LA GARZA) FOR THE PURPOSE OF MAKING DRAINAGE IMPROVEMENTS				
Sponsors:	Engineering				
Indexes:	Easement				
Code sections:					
Attachments:	Permanent Drainage Easement				

Date	Ver.	Action By	Action	Result
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A RESOLUTION TO THE CITY OF JONESBORO, ARKANSAS TO AUTHORIZE THE MAYOR AND CITY CLERK TO ACCEPT A PERMANENT DRAINAGE EASEMENT FROM DELANEX, INC. (JORGE DE LA GARZA) FOR THE PURPOSE OF MAKING DRAINAGE IMPROVEMENTS

WHEREAS, the City of Jonesboro, Arkansas desires to accept the following described easement for the purpose of making drainage improvements:

A part of Lot 7 of Cooper Addition as shown by plat in deed record 141 page 23, recorded on July 19, 1958, in Section 25, Township 14 North, Range 3 East, Jonesboro, Craighead County, Arkansas, being more particularly described as follows: The East 10 feet of Lot 7.

NOW THEREFORE BE IT RESOLVED BY THE CITY COUNCIL FOR THE CITY OF JONESBORO, ARKANSAS THAT:

Section 1: The Mayor and City Clerk are hereby authorized by the City Council for the City of Jonesboro, Arkansas to accept the easement described above.

Return recorded document to:
CITY OF JONESBORO
300 South Church Street
JONESBORO, AR 72401

The above space is reserved for Craighead County recording information.

PERMANENT DRAINAGE EASEMENT

KNOW ALL MEN BY THESE PRESENTS:

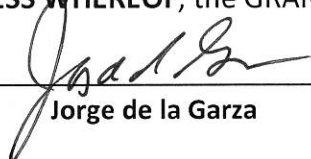
That Delanex Inc. Jorge de la Garza, hereinafter referred to as Grantor (whether one or more), does hereby dedicate, grant and convey unto the Public, and that the **CITY OF JONESBORO**, a Municipal Corporation of the State of Arkansas, hereinafter referred to as Grantee, does hereby accept on behalf of the public, for use as a permanent drainage easement the following described real property in Craighead County, State of Arkansas, to-wit:

A part of Lot 7 of Cooper Addition as shown by plat in deed record 141 page 23, recorded on July 19, 1958, in Section 25, Township 14 North, Range 3 East, Jonesboro, Craighead County, Arkansas, being more particularly described as follows: The East 10 feet of Lot 7.

This easement and right of way is for the purpose of making drainage improvements and maintaining said improvements within the City of Jonesboro. Any other use of this area, other than by record owners, shall only be granted by record owners, but they are not precluded from using or granting other use, so long as same does not interfere unreasonably with the express purpose intended.

This grant of easement and right of way shall be binding upon the heirs, successors, administrators and assigns of the grantor.

IN WITNESS WHEREOF, the GRANTOR executed this instrument on the 23rd day of May, 2016.

Signature 
Jorge de la Garza

Signature _____

ACKNOWLEDGMENT

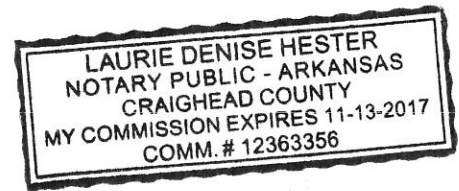
STATE OF ARKANSAS
COUNTY OF CRAIGHEAD

On this day before me, the undersigned officer, personally appeared Jorge de la Garza to me well known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that they had executed the same for the purposes therein stated and set forth.

WITNESS my hand and seal this 23rd day of May, 2016.

Notary Public (Signature) 

My Commission Expires: 11-13-17





Legislation Details (With Text)

File #:	RES-16:072	Version:	1	Name:	Agreement with Fisher & Arnold for professional services
Type:	Resolution	Status:		Status:	To Be Introduced
File created:	5/27/2016	In control:		In control:	Public Works Council Committee
On agenda:		Final action:		Final action:	
Title:	A RESOLUTION TO THE CITY OF JONESBORO, ARKANSAS TO ENTER INTO AN AGREEMENT WTH FISHER & ARNOLD, INC. TO PERFORM PROFESSIONAL ENGINEERING SERVICES				
Sponsors:	Engineering				
Indexes:	Contract				
Code sections:					
Attachments:	Proposal				

Date	Ver.	Action By	Action	Result
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A RESOLUTION TO THE CITY OF JONESBORO, ARKANSAS TO ENTER INTO AN AGREEMENT WTH FISHER & ARNOLD, INC. TO PERFORM PROFESSIONAL ENGINEERING SERVICES WHEREAS, the City of Jonesboro desires to enter into an agreement for professional engineering services for the design and final construction documents for improvements to the Highway 18 and Main Street Intersection in the City of Jonesboro; and,

WHEREAS, based on annual Statement of Qualifications submitted, the firm selected to perform professional engineering services for the above mentioned project is Fisher & Arnold, Inc.

WHEREAS, Fisher & Arnold, Inc. has agreed to provide the services detailed in the attached proposal; and,

WHEREAS, funding for the execution of the agreement shall come from the Capital Improvement - STIP account and compensation shall be paid in accordance with the agreement.

NOW THEREFORE BE IT RESOLVED BY THE CITY COUNCIL FOR THE CITY OF JONESBORO, ARKANSAS THAT:

Section 1: That the City of Jonesboro shall enter into an agreement with Fisher & Arnold, Inc. to perform professional engineering services for the design and final construction documents for improvements to the Highway 18 and Main Street Intersection in the City of Jonesboro.

Section 2: Funding for the execution of the agreement shall come from the Capital Improvement - STIP account and compensation shall be paid in accordance with the agreement.

Section 3: The Mayor and City Clerk are hereby authorized by the City Council for the City of Jonesboro to execute all documents necessary to effectuate this agreement.



FISHER ARNOLD
ENGINEERING INTEGRATION

May 25, 2016

Mr. Craig Light, P.E.
City Engineer
City of Jonesboro
300 S. Church Street
Jonesboro, AR 72401

**RE: PROPOSAL FOR
HIGHWAY 18 AND MAIN STREET
INTERSECTION IMPROVEMENTS**

Dear Mr. Light:

Fisher & Arnold, Inc. is pleased to submit the following Scope of Work and Proposal for providing design and final construction documents for improvements to the Highway 18 and Main Street Intersection. The Scope of Work will include improvements for approximately 500 feet north and south of Highway 18 to accommodate an additional northbound through lane and a double southbound left turn lane. This includes maintaining the existing westbound to northbound acceleration lane. The Scope of Work is more particularly described as follows:

SURVEY

1. Boundary, ROW, and utility research
2. Boundary and ROW location survey
3. CAD and Survey computations for Boundary and ROW
4. Topo 50' beyond curb line
5. Topo within the streets

The above survey will be performed as per AHTD Requirements in SDMS.

TOTAL LUMP SUM FEE.....\$33,953.00

NEPA

Environmental Document Preparation

F&A proposes to prepare environmental documents in the form of an expected Categorical Exclusion (CE) to meet the AHTD and FHWA process. The CE will be developed in accordance with applicable regulations. The various subtasks to be addressed in this component will include the following:

1. Purpose and Description
2. Mapping
3. Endangered Species
4. Fish and Wildlife
5. Floodplain
6. SHPO/Historical Resources Impacts
7. Bicycle and Pedestrian Impacts
8. Hazardous Materials / Sites Study
9. Prepare CE Document for Submittal to AHTD
10. Amend CE Document per ADEQ Comments as required to obtain approval
11. Expenses (LIST)

TOTAL LUMP SUM FEE.....\$13,652.00

Task Deliverables:

Environmental Document (Two hard copies and an electronic copy to the City).

Exclusions

It is anticipated that formal public involvement (project web-site, public involvement plan, public meeting, etc.) will not be required for this project.

Any permitting, application, or similar project fees will be paid directly by the City.

DESIGN

1. Project Administration
2. Title Sheet
3. Typical Sections
4. Draw Topo
5. Create Sheets
6. Horizontal Alignment
7. Vertical Alignment
8. Create DTM
9. Run Pattern Lines
10. Cut Existing and Final Cross Sections
11. Property Map
12. ROW Acquisition Table
13. Plats and Descriptions
14. Drainage Design

15. Retaining Wall Design
16. Maintenance of Traffic Plan
17. Signing and Pavement Marking Plan
18. Traffic Signal Modifications
19. Erosion Control Plans
20. Lighting Plans
21. Plan Submittals (30%, 60%, 90%)
22. Revise Plans Per Reviews
23. Item Nos./Quantity Calculations
24. Prepare Cost Estimate
25. QA/QC of Plans
26. Meetings, Correspondence, etc. (Meetings to occur monthly during the course of the design)

TOTAL LUMP SUM FEE.....\$75,630.00

Task Deliverables: Deliverables will include Preliminary Plans (30%) and Right-of-Way Plans (60%) which will include Plats and Descriptions, 90% Construction Plans, and Final Construction Plans.

BID PHASE

1. Answer questions from contractors during bid phase
2. Issue addenda
3. Attend Bid Opening
4. Review and certify bids for construction
5. Issue letter of recommendation for acceptance of bid

TOTAL LUMP SUM FEE.....\$2,860.00

GEOTECHNICAL (See Attachment "A").....\$6,532.00

SUMMARY:

SURVEY.....	\$33,953.00
NEPA	\$13,652.00
DESIGN.....	\$75,630.00
BID PHASE.....	\$2,860.00
Miscellaneous Expense (Mileage, Printing, Deliveries, Mail, etc.).....	<u>\$1,000.00</u>
TOTAL	\$127,095.00
GEOTECHNICAL	<u>\$6,532.00</u>
PROJECT TOTAL LUMP SUM.....	<u>\$133,627.00</u>

Mr. Craig Light, P.E.

May 25, 2016

Page 4

We are looking forward to working with you on this project. If you have any questions regarding this proposal, please do not hesitate to call.

Sincerely,

FISHER & ARNOLD, INC.



Richard E. Gafford, P.E.

Vice President

REG/mkg

Cc: Mr. Mark Nichols, P.E.

Mr. John Pankey, P.E.

Terms and Conditions

An invoice will be sent on a monthly basis until the completion of the project. Payment is due by the 10th of each month. Interest in the amount of 1.5% per month on the outstanding balances (18% per year) will be assessed the contracting party after the payment due date.

In the event of breach or non-payment, the contracting party agrees to pay reasonable expenses of enforcement including attorney fees and costs. Exclusive venue for enforcement of this agreement shall be in Shelby County, Tennessee.

The obligation to provide further services under the Agreement may be terminated by either party upon written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party. In the event of termination, Fisher & Arnold, Inc. will be paid for all services rendered to the date of termination.

The fees shown in this proposal are based on the Owner agreeing to limit the Professional's liability for all planning, engineering and analytical services to the Owner due to the Professional's negligent acts, errors or omissions, such that the total aggregate liability of the Professional to all those named shall not exceed the Professional's total fee for services rendered on the project.

This proposal represents the entire understanding between you and us in respect to the "Project" and may only be modified in writing signed by both of us. If this satisfactorily sets forth your understanding of the arrangement between us, please sign the acceptance of this proposed Letter Agreement in the space provided below and return it to us.

ACCEPTED BY:

CITY OF JONESBORO, AR

Name

Date

Title

ATTACHMENT "A"

*DIVISION OF MATERIALS AND TESTS
GEOTECHNICAL ENGINEERING SECTION*

GEOTECHNICAL SERVICES

MANHOUR REQUIREMENTS AND COST ESTIMATE

CRAIGHEAD

HIGHWAY 18 / MAIN STREET INTERSECTION IMPROVEMENTS

GEOTECHNOLOGY, INC.

Prepared By: ASHRAF ELSAYED, PH.D., P.E.

Date prepared: 5/20/2016

Federal Project No. N/A

State Project No. N/A

Geotechnical Office No. N/A

Pin No. N/A

Contract No, Work Order No. N/A

<Invoice Number>

ASHRAF ELSAYED, PH.D., P.E.

5501 Kreuger Drive, Suite 110

Jonesboro, AR 72401

<CONTACT ADDRESS>

901-353-1981

a_elsayed@geotechnology.com

Section III
Standard Cost Estimate For Soil And Geological Survey Report
1.00 Drilling Services

County: CRAIGHEAD
Route: HIGHWAY 18 / MAIN STREET INTERSECTION IMPROVEMENTS
Description: N/A
Project No.: N/A
Geotechnical Office No.: N/A
Consultant: GEOTECHNOLOGY, INC.
Prepared By: ASHRAF ELSAYED, PH.D., P.E.
Date Prepared: 5/20/2016
Contract Number: N/A

For further explanation of Item No. and Description refer to attached "Pay Item Numbers and Methods of Measurement for Cost Estimates".

Item No.	Description	Estimated Quantities	Basis of Payment		Price	Amount
1.01	Mobilization	1	each	@	\$795.00	\$795.00
1.06	Soil Drilling and Split Barrel Type Sampling on Land	50	vertical foot	@	\$16.00	\$800.00
1.07	Tube Type Sampling on Land	2	vertical foot	@	\$50.00	\$100.00
1.09	Borehole Grouting	0	vertical foot	@	\$4.00	\$0.00
1.10	Water Hauling	0	working day	@	\$265.22	\$0.00
1.13	Site Restoration ^a	5	per each	@	\$50.00	\$250.00
Total Estimated Drilling Costs						\$1,945.00

a: Includes patching the holes with asphalt

Section III
Standard Cost Estimate for Soil and Geological Survey Report
2.00 Laboratory Services

County: CRAIGHEAD
Route: HIGHWAY 18 / MAIN STREET INTERSECTION IMPROVEMENTS
Description: N/A
Project No.: N/A
Geotechnical Office No.: N/A
Consultant: GEOTECHNOLOGY, INC.
Prepared By: ASHRAF ELSAYED, PH.D., P.E.
Date Prepared: 5/20/2016
Contract Number: N/A

For further explanation of Item No. and Description refer to attached "Pay Item Numbers and Methods of Measurement for Cost Estimates".

Item No.	Description	Estimated Quantities	Basis of Payment		Rate	Amount
2.01	Atterberg Limits	5	each	@	\$60.00	\$300.00
2.02	Natural Moisture Content	5	each	@	\$5.00	\$25.00
2.03	Particle Size Analysis	5	each	@	\$75.00	\$375.00
2.05	Proctor Density Test	1	each	@	\$180.00	\$180.00
2.06	California Bearing Ratio (per point)	3	each	@	\$135.00	\$405.00
2.10	Triaxial Compression UU	0	strength properties	@	\$369.19	\$0.00
2.12	Unconfined Compression	0	per test strength	@	\$75.00	\$0.00
2.63	CD Direct Shear	0	properties	@	\$493.31	\$0.00
Total Estimated Laboratory Services Cost:						\$1,285.00

Section III
Standard Cost Estimate for Soil and Geological Survey Report
3.00 Manpower Requirements

County: CRAIGHEAD
Route: HIGHWAY 18 / MAIN STREET INTERSECTION IMPROVEMENTS
Description: N/A
Project No.: N/A
Geotechnical Office No.: N/A
Consultant: GEOTECHNOLOGY, INC.
Prepared By: ASHRAF ELSAYED, PH.D., P.E.
Date Prepared: 5/20/2016
Contract Number: N/A

See "Pay Item Numbers and Methods of Measurement for Cost Estimates" for further description of services required by state.

Item No.	ACTIVITY	PRINCIPAL	SENIOR ENGINEER	STAFF ENGINEER	SENIOR GEOLOGIST	STAFF ENGINEER	SUPERVISING DRILLER	STAFF CADD TECHNICIAN	STAFF ENGINEER
		MAN-HOUR	MAN-HOUR	MAN-HOUR	MAN-HOUR	MAN-HOUR	MAN-HOUR	MAN-HOUR	MAN-HOUR
3.10	Project Planning and Coordination	1.0			1.0		2.0		
3.20	Field Activities								10.0
3.30	Data Assimilation			2.0					1.0
3.40	Flexible Pavement Design			6.0					
3.50	Final Report Preparation	2.0		8.0				2.0	
3.70	Design-Phase and Post-Design Support	2.0							
Total Estimated Hours		5.0		16.0	1.0		2.0		11.0
Hourly Wages		\$55.62	\$38.12	\$25.89	\$31.70	\$24.25	\$38.36	\$23.25	\$21.50
Subtotal		\$ 278.10	\$ -	\$ 414.24	\$ 31.70	\$ -	\$ 76.72	\$ -	\$ 236.50
Overhead 165.88%		\$ 461.31	\$ -	\$ 687.14	\$ 52.58	\$ -	\$ 127.26	\$ -	\$ 392.31
Subtotal		\$ 739.41	\$ -	\$ 1,101.38	\$ 84.28	\$ -	\$ 203.98	\$ -	\$ 628.81
Fees		\$ 88.73	\$ -	\$ 132.17	\$ 10.11	\$ -	\$ 24.48	\$ -	\$ 75.46
FCCM 0.76%		\$ 2.11	\$ -	\$ 3.15	\$ 0.24	\$ -	\$ 0.58	\$ -	\$ 1.80
Subtotal of Estimated Man-hour Costs		\$ 830.26	\$ -	\$ 1,236.70	\$ 94.64	\$ -	\$ 229.04	\$ -	\$ 706.06

Total Estimate of Man-hour Requirements:	\$3,096.69
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Section III

Standard Cost Estimate for Soil and Geological Survey Report

3.00 Manpower Requirements, Hourly Rate Breakdown

County: CRAIGHEAD
 Route: HIGHWAY 18 / MAIN STREET INTERSECTION IMPROVEMENTS
 Description: N/A
 Project No.: N/A
 Geotechnical Office No.: N/A
 Consultant: GEOTECHNOLOGY, INC.
 Prepared By: ASHRAF ELSAYED, PH.D., P.E.
 Date Prepared: #####
 Contract Number: N/A

Hourly Rate Breakdown

	PRINCIPAL	SENIOR ENGINEER	STAFF ENGINEER	SENIOR GEOLOGIST	STAFF ENGINEER	SUPERVISING DRILLER	STAFF CADD TECHNICIAN	STAFF ENGINEER
	MAN-HOUR	MAN-HOUR	MAN-HOUR	MAN-HOUR	MAN-HOUR	MAN-HOUR	MAN-HOUR	MAN-HOUR
Direct Pay Rate	\$55.62	\$38.12	\$25.89	\$31.70	\$24.25	\$38.36	\$23.25	\$21.50
Pay Range	\$55-\$58	\$38-\$42	\$25-\$28	\$29-\$31	\$24-\$26	\$37-\$40	\$23-\$25	\$21-\$23
Overhead	165.88	165.88	165.88	165.88	165.88	165.88	165.88	165.88
FCCM	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76

Section III
Standard Cost Estimate for Soil and Geological Survey Report
4.0 Other Expenses

County: CRAIGHEAD

Project No.: N/A

Route: HIGHWAY 18 / MAIN STREET INTERSECTION IMP Geotechnical Office No.: N/A

Description: N/A

Contract No: N/A

Prepared By: ASHRAF ELSAYED, PH.D., P.E.

Consultant: GEOTECHNOLOGY, INC.

Date Prepared: 5/20/2016

Distance to Jobsite:

Company Headquarters: <CITY,STATE>	Job Site: <CITY,STATE>
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Travel Expenses				
Item No.	Description	Days	Rate*	Total
4.10	Travel Expenses		\$34.50	\$0.00
4.12	Lodging		\$83.00	\$0.00

*Must be in accordance with applicable AHTD Travel Regulations

Milage\Transportation Expenses				
Item No.	Description	Miles	Milage Rate*	Total
4.20	Passenger Truck	200	\$0.56	\$112.00

*Must be in accordance with applicable AHTD Travel Regulations

Equipment Rental				
Item No.	Description	Days	Daily Rate	Total

Plans Reproduction Costs				
Item No.	Description	Units	Unit Price	Total
4.43	Photocopies	200	\$0.47	\$94.00

Other Expenses				
Item No.	Description	Units	Unit Rate	Total

Total Estimate of Other Expenses:	\$206.00
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a: Item includes down-Hole testing and site-specific seismic analysis. This item will only apply with prior City approval

Section III
Standard Cost Estimate for Soil and Geological Survey Report
SUMMARY OF COST ESTIMATES

County: CRAIGHEAD
Route: HIGHWAY 18 / MAIN STREET INTERSECTION IMPROVEMENTS
Description: N/A
Project No.: N/A
Geotechnical Office No.: N/A
Consultant: GEOTECHNOLOGY, INC.
Prepared By: ASHRAF ELSAYED, PH.D., P.E.
Date Prepared: 5/20/2016

1.00 Drilling Services	\$1,945.00
2.00 Laboratory Services	\$1,285.00
3.00 Manpower Requirements	\$3,096.69
4.00 Other Expenses	\$206.00
Total Not-to-Exceed Costs	\$6,532.69