

FORT BEND COUNTY FY 2009  
COMMISSIONERS COURT AGENDA REQUEST FORM  
Return Completed Form by E-Mail to: Agenda Coordinator, County Judge's Office

Date Submitted: 05/19/2009 Submitted By: P.Batts  
Court Agenda Date: 05/26/09 Department: Engineering  
Phone Number: 281 633 7507

SUMMARY OF ITEM: Approve Payment of Invoice No. 5720 (Pay Estimate No. 9) in the amount of \$126,594.11 to Othon, Inc. regarding the expansion of Ransom Road (from River Park to Main Street in FBC and Richmond, Texas,) Mobility Bond Project #747, Precinct 1. Lawson P.O.#15769

RENEWAL AGREEMENT/APPOINTMENT YES  NO   
REVIEWED BY COUNTY ATTORNEY'S OFFICE: YES  NO

FINANCIAL SUMMARY:

BUDGETED ITEM: YES  NO

FUNDNG SOURCE: Accounting Unit: \_\_\_\_\_ Account Number: \_\_\_\_\_  
Activity (If Applicable): \_\_\_\_\_

DESCRIPTION OF LAWSOM ACCOUNT: \_\_\_\_\_

**Instructions to submit Agenda Request Form:**

- Completely fill out agenda form: incomplete forms will not be processed.
- Agenda Request Forms should be submitted by e-mail, fax, or inter-office mail, and all back-up information must be provided by Wednesday at 2:00 p.m. to all those listed below.
- All original back-up must be received in the County Judge's Office by 2:00 p.m. on Wednesday.

**DISTRIBUTION:**

Original Form Submitted with back up to County Judge's Office  (✓ when completed)  
If by E-Mail to [ospindon@co.fort-bend.tx.us](mailto:ospindon@co.fort-bend.tx.us) If by Fax to (281) 341-8609

Distribute copies with back-up to all listed below. If by fax, send to numbers below:

<input type="checkbox"/> Auditor (281-341-3774)	<input type="checkbox"/> Comm. Pct. 1 (281-342-0587)
<input type="checkbox"/> Budget Officer (281-344-3954)	<input type="checkbox"/> Comm. Pct. 2 (281-403-8009)
<input type="checkbox"/> Facilities/Planning (281-633-7022)	<input type="checkbox"/> Comm. Pct. 3 (281-242-9060)
<input type="checkbox"/> Purchasing Agent (281-341-8642)	<input type="checkbox"/> Comm. Pct. 4 (281-980-9077)
<input type="checkbox"/> Information Technology (281-341-4526)	<input type="checkbox"/> County Clerk (281-341-8697)
<input type="checkbox"/> Other:	<input type="checkbox"/> County Atty (281-341-4557)

**RECOMMENDATION / ACTION REQUESTED:**

Special Handling Requested (specify): \_\_\_\_\_



May 14, 2009

Mr. D. Jesse Hegemier, P.E.  
County Engineer  
Fort Bend County  
1124 Blume Road  
Rosenberg, Texas 77471

Re: Invoice No. 9 for Ransom Road (FBC Project No. 747)  
Partial Payment for Work Authorization No. 4

Project No. 300701.12

Dear Mr. Hegemier:

We have reviewed the enclosed invoice by Othon, Inc., and recommend payment in the amount of \$126,594.11, as submitted. The contract amount of \$658,708.00 for Othon was authorized in Work Authorizations 1 through 4. The percentages of completion for which the services have been invoiced appear to be consistent with the actual amount of work completed. Othon has also prepared a progress report, which is attached to the invoice for your review.

Please call me if you have any questions.

Sincerely,

Peter A. Ring, P.E.  
Project Manager

PAR/bl

Enclosure



OTHON, INC.  
 11111 Wilcrest Green, Suite 128  
 Houston, Texas 77042

CONSULTING ENGINEERS  
 Civil, Transportation, Environmental,  
 Construction Management

713 975 8555 TEL  
 713 975 9068 FAX  
 othoncorp@othon.com E-MAIL  
 www.othon.com WEBSITE

May 6, 2009

Fort Bend County Engineering  
 1124-52 Blume Rd. P.O. Box 1449  
 Rosenberg, TX 77471

Attn: D. Jesse Hegemier

Sequence No. 9  
 P.O. No. 15769  
 Invoice No. 5720  
 Project: Ransom Rd. Widening, Pct. 1  
 Project No. 08229846  
 FBC Project No. 747  
 SPI NO. 300701.08

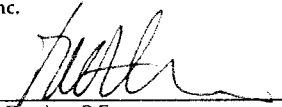
**Engineering Services through April 30, 2009**  
**Ransom Road: From River Park to Main Street in Fort Bend County and Richmond Texas**


Contract Limits	Percent Complete	Invoiced to Date	Previously Invoiced	Amount of Invoice
WA #1 Presentation to Court \$5,000.00	100%	5,000.00	\$3,350.00	\$1,650.00
PER Update \$24,186.00	100%	24,186.00	\$23,218.56	\$967.44
WA #2 Richmond Extension Analysis \$9,205.00	100%	9,205.00	\$9,205.00	\$0.00
WA #3 TIA/Traffic Analysis \$29,938.00	100%	29,938.00	\$29,938.00	\$0.00
WA #4 Final Design Services \$590,379.00	41%	243,186.67	\$119,210.00	\$123,976.67

Total Due This Invoice

**\$126,594.11**

Thank You  
 Othon, Inc.

*for*   
 James C. Warden, P.E.  
 Chief Engineer Transportation

*OK*  


PLEASE RETURN A COPY OF THE INVOICE WITH PAYMENT.

**RANSOM ROAD**  
**WORK AUTHORIZATION # 1, #2, #3, #4**  
**APRIL 2009 PROGRESS REPORT**

**SERVICES TO BE PROVIDED BY THE ENGINEER**

The scope of engineering services to be provided by the Engineer shall consist of completing the project engineering for widening approximately 2.5 miles of Ransom Road in Fort Bend County, Texas. The engineering services FOR Work Authorization #1 shall be for the PER update and the preparation of a power point presentation to the Fort Bend County Commissioners Court. The engineering services for Work Authorization #2 shall be to evaluate alternative designs for the intersection of Ransom Road at Loop 762 in Richmond, Texas. Work Authorization #3 shall be to prepare a TIA for the proposed courthouse complex to be constructed by Fort Bend County on Ransom Road in Richmond, Texas and prepare a traffic analysis for alternate designs for the intersection of Ransom Road at Loop 762. Work Authorization #4 shall be for the preparation of the construction plans, specifications and estimate for the final design of the roadway widening of Ransom Road from northwest of Wheaton Street to Williams Way Boulevard.

Engineering Services:

**WA #1**- 100% Complete

Schematic update has been completed and updated signed and sealed PER submitted. Courthouse complex design will be coordinated with County during progress of WA #4.

**WA #2** – 100% Complete

**WA #3** – 100% Complete

**WA #4** – 40% Complete

Final Design Activities (from April 1, 2009 through April 30, 2009)

In general for this period, the preliminary geometrics developed during the PER stage have been reviewed, updated and completed in conformance to County requirements. Continued work on updated design including horizontal alignment revisions in the vicinity of the Courthouse Complex.

For the month of April, significant work includes the design survey update of the project's Digital Terrain Model (DTM) and scheduling of geotechnical bores for roadway pavement design, side slope analysis and culvert requirements. Coordination of these sub-consultant tasks continued through the month of April, and is scheduled for completion in early May 2009.

Construction document drawings have been prepared to the 40% stage as described below. Finalization of vertical profile and horizontal alignment in progress as coordination continues with required drainage ditch design and coordination with County Courthouse complex. Further detail as follows:

### Project Coordination:

- 04-01-09 thru 4-30-09. Continued coordination of survey DTM updates, coordination with Surveyor for proposed and existing ROW data. Continued review of milestone submittals, deliverable dates, and overall schedule.
- 04-01-09 thru 4-30-09. Continued coordination of geotechnical boring work for alternative pavement design, side slope stability analysis and major culvert crossings. Continued review of milestone submittals, deliverable dates, and overall schedule.
- 04-29-09. Drainage study update meeting with LCR. Reviewed preliminary hydrologic and hydraulic data for ditch top-width design for north and south ditches, conducted interim QA/QC on hydraulic approach and data, and in process of coordination of final hydraulic/hydrologic analysis for completion of drainage area basins.
- 04-01-09 thru 4-30-09. Continued update of construction drawings with latest DTM data, alternate pavement sections, and alternate ditch design to assess optimal design for 50% submittal.

### Final Design Activities:

- Horizontal Alignment. Final horizontal alignment in review pending final north and south ditch hydraulic design.
- Vertical Profile. Final vertical profile in review and pending final survey update to conclude ROW elevations relative to edge of roadway. Continued preparation of final profile exhibits for recommendations and review with S&P.
- County Courthouse Complex. Continued analysis of proposed curb and gutter limits in horizontal curve at courthouse. Incorporated latest design of complex into final plan and profile drawings, and preparing working exhibits for coordination of final design geometrics. Complex drainage design relative to roadway drainage being analyzed for coordination meeting schedule for May 2009.
- Design Cross Sections. Continued development of design cross sections relative to vertical profile design based on substandard ditch side slopes. Design evaluation in progress and updated survey required to complete conclusions.
- Drainage. In addition to continuing courthouse complex review and ditch side slope analysis, continued preparation of hydrologic report including overall drainage watershed map and detailed drainage area maps. Continued analysis of two project outfalls at Rabb's Bayou and Pilgrim's Elementary School outfall channels. Preliminary findings and reports are scheduled for review with Fort Bend Drainage District in late May 2009.
- Utility Control Exhibit. Continued detailing of preliminary utility location map relative to roadway and drainage elements for future development of utility conflict exhibits.
- Survey. Continued survey update of DTM, outfall channel surveys and Courthouse Complex survey updates. Establishing baseline control and existing and proposed ROW mapping.
- Geotechnical. Continued staking and drilling of proposed roadway and drainage bores for the project. Provided pavement design analysis for alternative sections.
- Traffic Control Plan. Continued to develop and detail the preliminary three phase traffic sequence plan from PER.

- CADD Drawings. The following preliminary plan drawings continue to be detailed:
  - ◆ Cover Sheet and Proposed / Existing Typical Sections
  - ◆ Overall Project Layout Sheet
  - ◆ Plan and Profile Sheets (27) at 1"=40', began detailing to extent possible.
  - ◆ Conceptual Traffic Control Plan (3 phase approach) with Advanced Warning Signs
  - ◆ Utility Location Mapping
  - ◆ Base Drawings for SWPPP development

**PROPOSED TASKS FOR MAY 2009**

- Complete 50% construction drawings with updated Engineer's estimate for May 22, 2009.
- Conclude preliminary hydrological analysis for meeting with Fort Bend Drainage District.
- Conclude analysis and prepare exhibits for Courthouse Complex incorporation to final design for meeting with S&P and Courthouse designers.
- Conclude analysis and recommendations for ditch side slope issues for meeting with S&P in late May including recommended adjustments to vertical profile. Review alternative approaches to obtain maximum side slopes.
- Complete pavement structure design recommendations with alternative estimates for meeting with S&P in May 2009.

# RODS

## Surveying, Inc.

May 1, 2009

Rita Rowan  
 Othon, Inc.  
 11111 Wilcrest Green, Suite 128  
 Houston, Texas 77042

First invoice No. 11616 and Status Report  
 Ransom Road Widening Project  
 Othon Project No. 08229846  
 RODS Surveying Job No. 203-20817-000

Dear Ms. Rowan:

Following is our invoice covering the period April 7, 2009 through April 30, 2009

Item	Budget	Percent of Project	Percent Task Complete	Percent Project Complete	Amount Earned
Management	\$ 1,496.00	2.4%	21.6%	0.5%	\$ 323.57
Right of Entry	\$ 1,656.00	2.6%	100.0%	2.6%	\$ 1,656.00
Ground Control	\$ 11,584.00	18.5%	100.0%	18.5%	\$ 11,584.00
Other Agency Datums	\$ 2,139.00	3.4%	0.0%	0.0%	\$ -
Existing R/W	\$ 21,188.00	33.8%	70.0%	23.6%	\$ 14,831.60
Design Surveys	\$ 19,048.00	30.4%	70.0%	21.3%	\$ 13,333.60
Soil Borings	\$ 1,548.00	2.5%	100.0%	2.5%	\$ 1,548.00
Project Baseline	\$ 4,052.00	6.5%	0.0%	0.0%	\$ -
<b>Total</b>	<b>\$ 62,713.00</b>	<b>100.0%</b>		<b>21.6%</b>	<b>\$ 43,276.77</b>

Previous Invoices \$ -  
 Amount Remaining \$ 19,436.23  
 Total This Invoice \$ 43,276.77

**APPROVED FOR PAYMENT**

*[Signature]* 5/6/09

Signature \_\_\_\_\_ Date \_\_\_\_\_

V: 17460  
 C: 30345

First Invoice No. 11616 and Status Report  
Othon Project No. 08229846

May 1, 2009  
Page 2 of 3 Pages

Following is a status summary of each survey task included in our proposal dated February 27, 2009.

#### Right of Entry

Right of entry to the extent required to perform the survey tasks has been secured.

#### Ground Control

Ground control points previously established by Landtech Consultants have been recovered and verified correct. The points established by Landtech Consultants consisted of 60D nails. In order to provide a more stable and permanent control network for future use, RODS Surveying has established 5/8 inch iron rods with "RODS Surveying, Inc." caps set in concrete at approximate 1,000 foot intervals along the fringes of the right of way. The surveys to establish the coordinates and elevations of these points are complete. The datum and adjustment of the points established by Landtech Consultants and RODS Surveying are identical and may be used interchangeably. All metadata regarding these points will be included with the "Horizontal and Vertical Control Sheets" and the "Survey Control Index Sheets" at such time as a final proposed baseline is established.

#### Other Agency Datums

Project control will be referenced to other agency control at such time as specific needs are identified.

#### Existing Right of Way

The right of way map prepared by Landtech Consultants has been reviewed and a digital file prepared to verify the calls along the existing/proposed right of way lines and baseline. The map is considered geometrically correct. Deeds and plats for the existing right of ways and adjacent properties has been researched and submitted to RODS Surveying by Courthouse Specialists. These documents are currently being reviewed to insure that the Landtech Consultants map is consistent with the current public records. All corners called for on the Landtech Consultants Map as marking the existing/proposed right of way lines have been surveyed and are being compared to the map.

#### Design Surveys

The topographic survey is considered complete subject to comments by the designer regarding verification of specific elements or additional elements which may need to be surveyed. Utility research of underground utilities and comparison to surface elements is ongoing.

First Invoice No. 11616 and Status Report  
Othon Project No. 08229846

May 1, 2009  
Page 3 of 3 Pages

Soil Borings

The location of geotechnical soil borings made to date have been surveyed.

Project Baseline

The project baseline will be staked at such time as a final proposed baseline is established.

If you have any questions or need additional information regarding this invoice or status report, please don't hesitate to contact me.



Art Story, RPLS  
Senior Project Manager  
AMS



# GEOTECH ENGINEERING and TESTING



*Geotechnical, Environmental, Construction Materials, and Forensic Engineering*

## PARTIAL INVOICE

*(March 18, 2009 - April 30, 2009)  
Please show invoice number on your remittance*

### By E-Mail and Regular Mail

**TO:** Othon, Inc., Consulting Engineers (OTHON)  
11111 Wilcrest Green Drive, Suite 128  
Houston, Texas 77042-3739

**INVOICE DATE:** 04-30-09

**PROJECT NO:** 07-1072E

**ATTENTION:** Mr. Charles A. Othon

**INVOICE NO:** 22927

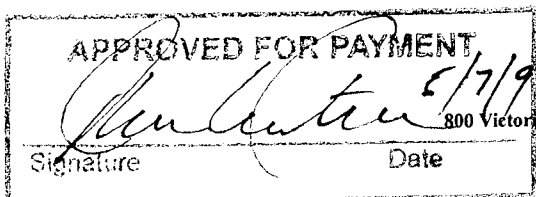
**PHONE #:** (713) 975-8555

**PROJECT:** Geotechnical Exploration Study  
Ransom Road Widening  
From Williams Way to Wheaton Street  
Richmond, Fort Bend County, Texas  
OTHON No. 08229846

**PROJECT MANAGER:**  
Scott Kim

**AUTHORIZATION:** This study was authorized by Mr. F. W. Othon, P.E. on April 07, 2009.

<u>SERVICE</u>	<u>UNIT FEE</u>	<u>UNIT MEASURE</u>	<u>QUANTITY</u>	<u>AMOUNT</u>
<b>ROADWAY PAVEMENT DESIGN AND OPEN DITCH</b>				
<b>FIELD EXPLORATION:</b>				
Mobilization/Demobilization				\$ 250.00
<b>Drilling and Sampling</b>				
Continuous	\$ 15.00	ft	270	4,050.00
Intermittent	13.50	ft	70	945.00
<b>Senior Engineer</b>				
Site Visit, Boring Locating, Coordinating with Utility Companies	105.00	hr	20	2,100.00
<b>Technician</b>				
Logging the Borings, 24-hr Water Level Measurements	32.00	hr	40	1,280.00
Vehicle Charge	5.50	hr	60	330.00
				<b>Subtotal \$ 8,955.00</b>



800 Victoria Drive • Houston, Texas 77022-2908 • Tel.: 713-699-4000 • Fax: 713-699-9200  
Texas • Louisiana • New Mexico • Oklahoma  
Website: www.geotecheng.com

<u>SERVICE</u>	<u>UNIT FEE</u>	<u>UNIT MEASURE</u>	<u>QUANTITY</u>	<u>AMOUNT</u>
<b>ROADWAY PAVEMENT DESIGN AND OPEN DITCH</b>				
<b>LABORATORY TESTING:</b>				
Water Content	\$ 6.00	ea	54	\$ 324.00
Liquid and Plastic Limits	45.00	ea	54	2,430.00
Percent Finer than No. 200 Sieve	35.00	ea	26	910.00
Unconfined Compression	33.00	ea	54	<u>1,782.00</u>
				Subtotal \$ <u>5,446.00</u>
<b>TRAFFIC CONTROL ALLOWANCE:</b>				
Crew of Two, Flagmen, Four Days	\$ 32.00	hr	75	\$ 2,400.00
Trip Charge	5.50	hr	75	<u>412.50</u>
				Subtotal \$ <u>2,812.50</u>
<b>TWO DITCHES AND BOX CULVERTS</b>				
<b>FILD EXPLORATION:</b>				
Mobilization/Demobilization				\$ 250.00
A.T.V. Mobilization Surcharge				100.00
<b>Drilling and Sampling</b>				
Continuous	\$ 15.00	ft	40	600.00
Intermittent	13.50	ft	30	405.00
A.T.V. Surcharge	5.00	ft	70	350.00
<b>Technician</b>				
Logging the Borings, 24-hr Water Measurements, Helping Stake the Borings	32.00	hr	16	512.00
Vehicle Charge	5.50	hr	16	<u>88.00</u>
				Subtotal \$ <u>2,305.00</u>

<u>SERVICE</u>	<u>UNIT FEE</u>	<u>UNIT MEASURE</u>	<u>QUANTITY</u>	<u>AMOUNT</u>
<b>TWO DITCHES AND BOX CULVERTS</b>				
<b>LABORATORY TESTING:</b>				
Water Content	\$ 6.00	ea	10	\$ 60.00
Liquid and Plastic Limits	45.00	ea	10	450.00
Percent Finer than No. 200 Sieve	35.00	ea	5	175.00
Unconfined Compression	33.00	ea	10	<u>330.00</u>
				Subtotal \$ <u>1,015.00</u>
				Total \$ <u>20,533.50</u>

**BILLING STATUS**

Estimated Total Project Budget: \$ 34,418.50

<u>GET Project No.</u>	<u>Invoice No.</u>	<u>Date</u>	<u>Amount Total for Each Individual Invoice</u>	<u>Amount Total To Date</u>	<u>Percent of Total Project Budget to Date</u>	<u>Remaining Budget to Date</u>
07-1072E	22927	04/30/09	\$ 20,533.50	\$ 20,533.50	59.66%	\$ 13,885.00

**REMIT TO:** DAE & ASSOCIATES, LTD.  
 dba GEOTECH ENGINEERING AND TESTING  
 800 VICTORIA DRIVE  
 HOUSTON, TEXAS 77022  
 (713) 699-4000

**Conditions:** Invoice is due on presentation.

**Distribution:** DAE (review), Accounting (hard copy), HW (hard copy), SK (hard copy)