

AI-38310

2.

DRAINAGE - CONSENT

Meeting Date: 04/30/2013

Submitted By: Sylvia Sanchez, DRAINAGE
DISTRICT

Department: DRAINAGE DISTRICT

Information

CAPTION

Kebo Oil & Gas propose to place a 3" gas line to cross HCDD1 ROW 1318.8 from east ROW easement of 23rd. St.of HCDD1 6.42 acres. (Vol.330, page 565 of Hidalgo County Records)

BACKGROUND

Form Review

Inbox	Reviewed By	Date
Budget & Management	Angela Garcia	04/19/2013 08:06 AM
Final Approval	Angela Garcia	04/26/2013 04:42 PM
Form Started By: Sylvia Sanchez		Started On: 04/18/2013 04:34 PM
	Final Approval Date: 04/26/2013	

AI-38384

3.

DRAINAGE - CONSENT

Meeting Date: 04/30/2013

Submitted By: Sylvia Sanchez, DRAINAGE
DISTRICT

Department: DRAINAGE DISTRICT

Information

CAPTION

Approval of invoice #11324418 for Work Authorization #1 for L&G Engineering on La Joya Watershed Improvement Project.
(Precinct #3 Bond Project)

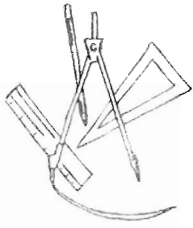
BACKGROUND

Attachments

invoice

Form Review

Inbox	Reviewed By	Date
Budget & Management	Angela Garcia	04/24/2013 02:43 PM
Final Approval	Angela Garcia	04/26/2013 04:42 PM
Form Started By: Sylvia Sanchez		Started On: 04/24/2013 09:15 AM
	Final Approval Date: 04/26/2013	



April 3, 2013

Mr. Godfrey Garza – Executive Director
Attn: Ms. Lora Briones – Chief Financial Officer
Hidalgo County Drainage District #1
902 N. Doolittle
Edinburg, Texas 78542

RE: Work Authorization #1 on La Joya Watershed Improvement Project
P.O. #622086
Invoice #11324418

Dear Mr. Garza,

Attached for your review and approval is our invoice for the services rendered during the month of March 2013 on the subject referenced project.

The following is attached:

- L & G's Invoice #11324418
- Existing Drainage Facility Sheets – 11 X 17 (Final)
- Inventory of Box Culverts Owned by HCDD#1 – Report (Penitas Stock Pile)
- Civil Systems Engineering, Inc. – Progress Report
- Civil Systems Engineering, Inc. – Invoice
- Civil Systems Engineering, Inc. – Basin MDP HEC-RAS Schematic, Hydrologic Network, WSmap

TASK		% COMPL
12001 – Coordinate w/ TxDOT-County-City to Accommodate Local Drainage Needs & Corresponding Participation	L&G	65.4%
Update – L&G has continued its outreach and coordination effort with the various entities impacted by the La Joya Watershed. We have met with field personnel from Pct #3, as well as irrigation districts. The outreach with TxDOT has been extensive during this work period in preparation for the upcoming public meeting they are scheduling for the US83 Relief Route Project.		
16101 - TASK #2 – Gather Information Regarding Existing Drainage Features, Facilities, & Watersheds	L&G	68.4%
Update – L&G has compiled a detailed inventory of all existing drainage features and facilities within the Penitas Watershed. These facilities have been identified, cataloged, and represented graphically on 11 X 17 plan sheets (see attached)		
16102 – Coordinate and Ensure Compliance with TCEQ Requirements for Discharging into La Joya Lake	L&G	37.2%
Update – L&G has continued its research into what type of facility the TCEQ is going to require, as well as possible locations to place said facility.		

16103 – Meet w/ County-HCDD#1-TxDOT-Cities and Examine Existing Hydrologic Studies	L&G	23.3%
Update – L&G has been working with Irrigation District #6 on obtaining any and all H&H studies that have been conducted on the La Joya Lake. We are also working with Urban County on obtaining the plans currently under development for proposed drainage improvements to this watershed.		
16104 – Field Reconnaissance for Identification and Logging of Existing Conditions Along Project Alignment	L&G	45.1%
Update – L&G has created plan sheets that identify contours, existing drainage facilities, detention ponds, etc within the La Joya Watershed for refinement of the HEC-HMS Model currently under development by CSC. These sheets help identify existing conditions throughout the project limits.		
16105 – La Joya Lake Watershed Delineation and Operational Research	L&G	21.2%
Update – L&G has furthered the analysis and refinement of the 30M Digital Elevation Model to be able to accurately model the amount of water that contributes to the La Joya Lake. The actual analysis and modeling of the existing conditions of the lake has been initiated.		
16106 – Coordination & Review of Drainage Improvement Plan	L&G	25.1%
Update – L&G has continued to coordinate with CSE on reviewing and ensuring accurate modeling of field conditions in the HEC-HMS model. Based on the field work done to date, we are reviewing the modeling engagement to ensure that the work being done is an accurate representation of the field conditions. The coordination and review of the work done by CSE is the job of L&G and is anticipated to last the duration of this WA.		
16160 (SUB) – Drainage Improvement Plan	CSE	23.6%
Update – For an update on this section, see “Monthly Progress Report No. #2 – March 2013” from CSE attached. Also find attached working documents of the work product deliverables for this invoice period.		
16107 – Overall Drainage Area Map (based on CSE Analysis/Model/Report)	L&G	49.2%
Update – L&G has continued to work on an overall drainage area map showing both major watersheds contributing to the La Joya Lake and the Penitas area respectively. This exhibit is anticipated to be the basis for the needed coordination with affected land owners once H&H modeling is complete.		

16109 – Direct Expenses	L&G	21.1%
Update – L&G has traveled to and from the project site an estimated 10 Trips at 65 Miles/trip using a rate of .55/mile		

Should you have any questions regarding this submittal or would like clarification on any aspect of the project, please do not hesitate to call me at (956) 583-7117.

Sincerely,



Reza Badiozzamani P.E., C.F.M.

Reza Badiozzamani, P.E., C.F.M.

Project Manager

L&G Engineering

L & G Consulting Engineers Inc
2100 W. Expressway 83
Mercedes, TX 78570
(956)565-9813 Fax (956)565-9018


INVOICE#: 11324418
INVOICE DATE: 3/31/2013

BILL TO:
Hidalgo County Drainage District#1
902 N. Doolittle
Edinburg, TX 78542

JOB:130101
La Joya Watershed Imp
WA#1
P.O.#622086

DESCRIPTION	CONTRACT	PREVIOUS APPLICATIONS	CURRENT COMPLETED	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH
FC 120 - PUBLIC INVOLVEMENT TO PHASE I						
12001 - Coordinate w/TxDOT-County-City	15,637.36	3,982.18	6,240.37	10,222.55	65.4	5,414.81
12002 - Ident. Of All Affected Prop. Owners	33,193.22				0.0	33,193.22
12003 - Coord. w/Landowners due to Prop Outfall Fac.	69,020.10				0.0	69,020.10
12004 - Environmental Study Phase I	39,395.40				0.0	39,395.40
	<u>157,246.08</u>	<u>3,982.18</u>	<u>6,240.37</u>	<u>10,222.55</u>		<u>147,023.53</u>
FC 161 - HYDROLOGY						
16101 - Gather Info Regarding Ext. Drainage	70,022.14	26,588.40	21,337.47	47,925.87	68.4	22,096.27
16102 - Coord. and Ensure Compliance w/TCEQ	26,078.36	3,144.45	6,556.00	9,700.45	37.2	16,377.91
16103 - Meet w/Govt Entities to Exam Hydro Studies	57,426.30	6,932.42	6,422.51	13,354.93	23.0	44,071.37
16104 - Field Recon. For ID and Logging of Exst. Condu	56,916.24	13,494.58	12,177.22	25,671.80	45.1	31,244.44
16105 - La Joya Lake Watershed Delineation	60,521.84	5,967.21	6,865.56	12,832.77	21.2	47,689.07
16106 - Coord. & Review of Drainage Imp Plan	28,385.12	2,525.28	4,589.18	7,114.46	25.1	21,270.66
16160 - SUB - Drainage Imp. Plan	169,189.00	20,470.24	19,523.56	39,993.80	23.6	129,195.20
16107 - Overall Drainage Area Map	22,241.94	5,062.72	5,876.16	10,938.88	49.2	11,303.06
16108 - Outfall Drainage Area Map	22,241.94				0.0	22,241.94
16109 - Prelim. Eng. Report Summarizing Findings	29,345.52				0.0	29,345.52
	<u>542,368.40</u>	<u>84,185.30</u>	<u>83,347.66</u>	<u>167,532.96</u>		<u>374,835.44</u>
Direct Expenses	5,937.50	357.50	893.75	1,251.25	21.1	4,686.25
	<u>5,937.50</u>	<u>357.50</u>	<u>893.75</u>	<u>1,251.25</u>		<u>4,686.25</u>
TOTALS:	<u><u>705,551.98</u></u>	<u><u>88,524.98</u></u>	<u><u>90,481.78</u></u>	<u><u>179,006.76</u></u>	<u>25.4</u>	<u><u>526,545.22</u></u>

ORIGINAL CONTRACT SUM \$ 705,551.98
CHANGE BY CHANGE ORDER \$ 0.00
CONTRACT SUM TO DATE \$ 705,551.98
TOTAL COMPLETED TO DATE \$ 179,006.76
LESS PREVIOUS INVOICES \$ 88,524.98
CURRENT PAYMENT DUE \$ 90,481.78


PROJECT MANAGER SIGNATURE *P.E., C.F.M.*

HIDALGO COUNTY
PAID

APR 30 2013
ENTER 4/22/13
BY: CLAUDETTE G.
DRAINAGE DISTRICT #1

Handwritten notes and signatures:
4/16/13
4/16/13
4/16/13

L&G Consulting Engineers, Inc
 2100 W. Expressway 83
 Mercedes, Texas 78570
 (956) 565-9813

Project Workhour Report

Reference: Inv#11324418

Date: 03/31/13

P.O.#622086

	Hrs		Rate	Total
Senior Project Manager	63.00	X	206.39	\$13,002.57
Senior Engineer	121.00	X	169.97	\$20,566.37
Design Engineer	143.00	X	109.27	\$15,625.61
Senior Engineer Tech	252.00	X	75.88	\$19,121.76
Biologist	0.00	X	48.56	\$0.00
Senior Env Scientist	0.00	X	130.51	\$0.00
Env Scientist	0.00	X	75.88	\$0.00
Admin/Clerical	32.00	X	54.63	\$1,748.16

Grand Total of Hours 611.00 \$ 70,064.47
 (Difference due to rounding hours) \$ -

Invoice Summary

Man Hours \$ 70,064.47
 Sub Contract \$ 19,523.56
 (See Attached Sub Invoice for Man Hour Breakdown)
 Direct Expenses \$ 893.75
Total Per Invoice Submitted **\$ 90,481.78**


 Project Manager Signature P.E., C.F.M.

L&G Consulting Engineers, Inc
 2100 W. Expressway 83
 Mercedes, Texas 78570
 (956) 565-9813

Project Workhour Report

Reference: Inv#11324418

Date: 03/31/13

P.O.#622086

	Hrs		Rate	Total
Senior Project Manager	63.00	X	206.39	\$13,002.57
Senior Engineer	121.00	X	169.97	\$20,566.37
Design Engineer	143.00	X	109.27	\$15,625.61
Senior Engineer Tech	252.00	X	75.88	\$19,121.76
Biologist	0.00	X	48.56	\$0.00
Senior Env Scientist	0.00	X	130.51	\$0.00
Env Scientist	0.00	X	75.88	\$0.00
Admin/Clerical	32.00	X	54.63	\$1,748.16

Grand Total of Hours \$ 70,064.47

(Difference due to rounding hours) \$ -

Invoice Summary				
Man Hours				\$ 70,064.47
Sub Contract				\$ 19,523.56
<small>(See Attached Sub Invoice for Man Hour Breakdown)</small>				
	Current			
Direct Expenses	Units		Rate	
20 ft. Long by 3 ft. Tall Hydro Map (8 Units)	1	X	300.00	\$ 300.00
8.5 X 11 Copies (i.e. Corr. w/Landowners) - (1,000 units)	133	X	1.00	\$ 133.00
11 x 17 Copies (i.e. various Exhibits) - (500 units)	69	X	1.50	\$ 103.50
Mileage (65 miles/trip) - (50 Trips)	10	X	35.75	\$ 357.50
				\$ 894.00
			(Difference due to rounding)	\$ (0.25)

Total Per Invoice Submitted **\$ 90,481.78**

Zimbra

claudette.guerrero@hcdd1.org

RE: Invoice No. 11324418-La Joya Watershed Improvement Project**From :** Reza Badiozzamani <reza@lgengineers.com>

Thu, Apr 25, 2013 11:38 AM

Subject : RE: Invoice No. 11324418-La Joya Watershed Improvement Project

2 attachments

To : Claudette Guerrero <claudette.guerrero@hcdd1.org>**Cc :** LORA BRIONES <lora.briones@hcdd1.org>, Marisela G. Marin <mmarin@lgengineers.com>, Roland Nunez <rnunez@lgengineers.com>

Ms. Guerrero,

As requested... Attached is a break-down for the Direct Expenses... Let me know if you need anything else from us to process this invoice.

Cheers

Reza Badiozzamani, P.E., C.F.M.

From: Claudette Guerrero [mailto:claudette.guerrero@hcdd1.org]**Sent:** Thursday, April 25, 2013 10:30 AM**To:** Reza Badiozzamani**Cc:** LORA BRIONES**Subject:** Invoice No. 11324418-La Joya Watershed Improvement Project**Importance:** High

Mr. Badiozzamani,

Invoice no. 11324418 for the project mentioned above has been cleared by our District engineer and its scheduled for Board approval on April 30, 2013; regarding direct expenses billed in the amount of \$893.75, please provide breakdown (i.e. 8.5x11 copies, maps) to accurately audit the items referenced on Exhibit D. The progress report for said invoice, indicates 10 trips at 65 miles/trip using a rate of .55 a mile (\$357.50) leaving \$536.25 to be categorized.

should you have any questions and/or concerns, please do not hesitate to contact our office at the number shown below.

Thank you,

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Claudette Guerrero, Accountant
Hidalgo County Drainage District No. 1
902 N. Doolittle
Edinburg, Texas 78542
Off: (956)292-7080 ext: 5804
Fax: (956)292-7000

AI-38384

3.

DRAINAGE - CONSENT

Meeting Date: 04/30/2013

Department: DRAINAGE DISTRICT

Information

CAPTION

Approval of invoice #11324418 for Work Authorization #1 for L&G Engineering on La Joya Watershed Improvement Project.
(Precinct #3 Bond Project)

BACKGROUND

Attachments

invoice

Form Review

Inbox	Reviewed By	Date
Budget & Management	Angela Garcia	04/24/2013 02:43 PM
Final Approval	Angela Garcia	04/26/2013 04:42 PM
Budget & Management	Angela Garcia	04/24/2013 02:43 PM
Final Approval		04/26/2013 04:42 PM
Form Started By: Sylvia Sanchez		Started On: 04/24/2013 09:15 AM
Final Approval Date: 04/26/2013		

**La Joya Watershed Improvement Project
Monthly Progress Report No. #2 – March 2013**

P.O. No: 622086

Period of Coverage: March, 2013
Date of Submittal: March 27, 2013
Submitted To: Reza Badiozzamani, P.E.
Prepared By: Civil Systems Engineering Inc.

This planning study is to perform a detailed drainage improvement study to assist the Hidalgo County Drainage District No.1 (HCDD No.1) to develop a drainage improvement plan for future development within the watershed. This study covers the following nine activities:

1. Coordination and Meeting
2. Review Previous Studies
3. Structure Inventory
4. GIS Base Mapping
5. LiDAR Data Processing
6. Drainage Basin Delineations
7. HEC-HMS Modeling Analysis (Penita Basin)
8. HEC-RAS Modeling Analysis (Penita Basin)
9. Plan Formulation
10. Environmental Investigation
11. Alternative Plan Evaluation
12. Alternative Optimization and Selection
13. La Joya Watershed HEC-HMS Model Development & Analysis
14. La Joya Lake Operation Modeling Analysis
15. Cost Estimation
16. H&H Report Report

PROGRESS TO REPORT FOR THIS PERIOD

Activity 1 – Coordination and Meeting

Project team coordination regarding base data for the project and LiDAR data processing issues.

Activity 2 – Review Previous Studies

Review previous studies including FEMA Map Mod project reports and Penitas Drain Master

Drainage Plan Study.

Activity 3 – Structure Inventory

Activity 4 – GIS Base Mapping

Performed GIS base mapping overlay for the purpose of the project.

Activity 5 – LiDAR Data Processing

Developed recondition lines for LiDAR data and performed LiDAR data recondition processing.

Activity 6 – Drainage Basin Delineations

Refined drainage delineations.

Activity 7 – HEC-HMS Modeling Analysis (Penita Basin)

Revised preliminary HEC-HMS model.

Activity 8 – HEC-RAS Modeling Analysis (Penita Basin)

Activity 9 – Plan Formulation

Activity 10 – Environmental Investigation

Activity 11 – Alternative Plan Evaluation

Activity 12 – Alternative Optimization and Selection

Activity 13 – La Joya Watershed HEC-HMS Model Development & Analysis

Revised preliminary HEC-HMS model.

Activity 14 – La Joya Lake Operation Modeling Analysis

Activity 15 – Cost Estimation

Activity 16 – H&H Report Report



**Civil Systems
Engineering, Inc.**

2299 Lone Star Drive, Ste 239
Sugar Land, Texas 77479
(713) 782-3811

INVOICE


Engineering Services
La Joya Watershed Improvement Project (Tasks 1-16)

L&G Engineering 2100 W. Expressway 83 Mercedes, Texas 78570 Attention: Mr. Reza Badiozzamani, P.E.	CSE Invoice Number: 201352 CSE Project Number: LG201301 Invoice Period: 3/1/2013 Through 3/28/2013 Invoice Date: March 28, 2013 P.O. No. 622086
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Contract Amount \$169,189.00	Contract Amount Remaining \$129,195.20
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Employee Classification	Rate	Previous		This Period		To Date	
		Hr	Total	Hr	Total	Hr	Total
Project Manager	\$178.36	20.0	\$3,567.20	25.0	\$4,459.00	45.0	\$8,026.20
Project Engineer	\$164.64	56.0	\$9,219.84	54.0	\$8,890.56	110.0	\$18,110.40
GIS Specialist	\$137.20	56.0	\$7,683.20	45.0	\$6,174.00	101.0	\$13,857.20
Subtotal			\$20,470.24		\$19,523.56		\$39,993.80

TOTAL FEE EARNED:	\$39,993.80
LESS PREVIOUSLY INVOICED:	\$20,470.24
TOTAL AMOUNT DUE THIS INVOICE:	\$19,523.56

Deren Li, Ph.D., P.E., D.WRE Project Manager	
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