



**CONSENT AGENDA
DRAINAGE DISTRICT
BOARD OF DIRECTORS
November 18, 2014
9:00 A.M.**

NOTICE is hereby given in accordance with Chapter 551, Texas Government Code, that a SPECIAL MEETING of the Drainage District #1 Board of Directors will be held at the Edinburg Council Chambers 415 W. University Drive, Edinburg, Hidalgo County, Texas. Discussion and possible action relating to the following business will be transacted:

**NOTICE TO THE PUBLIC
CONSENT AGENDA**

The following items are of a routine or administrative nature. The Drainage District #1 Board has been furnished with background and support on each item, and/or it has been discussed at a previous meeting. All items will be acted upon by one vote without being discussed separately unless requested by a Board Member, in which event the item or items will immediately be withdrawn for individual consideration in its normal sequence after the items not requiring separate discussion have been acted upon. The remaining items will be adopted by one vote.

1. Approval of check register and payment of claims and bills - County Treasurer

2. **AI-47431** 2013 Bonds:
Request approval to process payment after review and audit procedures have been completed:
Inv. no. 11324984 in the amount of \$12,158.11 for L&G Consulting Engineers, Inc. related to Work Authorization no. 4- Mission Inlet Recertification Project.
PO#624010.

3. **AI-47356** Utility Permit:
City of Pharr - proposes to place a 12" & 5" PVC Water main lines within HCDD1 ROW of Pharr-McAllen South Drain located at Jackson Road.

AI-47431

2.

DRAINAGE - CONSENT

Meeting Date: 11/18/2014

Submitted By: Claudette Guerrero, DRAINAGE
DISTRICT

Department: DRAINAGE DISTRICT

Information

CAPTION

2013 Bonds:

Request approval to process payment after review and audit procedures have been completed:
Inv. no. 11324984 in the amount of \$12,158.11 for L&G Consulting Engineers, Inc. related to Work
Authorization no. 4- Mission Inlet Recertification Project. PO#624010.

BACKGROUND

Attachments

L&G Inv#11324984

Form Review

Inbox	Reviewed By	Date
Budget & Management	Veronica Ortiz	11/14/2014 02:08 PM
Final Approval	Monica Badillo	11/14/2014 05:07 PM
Form Started By: Claudette Guerrero		Started On: 11/14/2014 01:49 PM
	Final Approval Date: 11/14/2014	

HIDALGO COUNTY DRAINAGE DISTRICT NUMBER ONE

502 NORTH DOOLITTLE

EDINBURG, TEXAS 78542

(956) 292-7080

FAX (956) 292-7089



GODFREY GARZA, JR.
MANAGER

INVOICE PROCESSING CHECKLIST

Data Received: 11/4/2014

Engineer/Firm Name: L&G Engineering

Project Name/Number: WA#4 Mission Inlet Recertification Project

Invoice No: #11324984

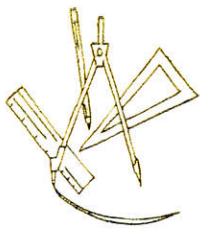
Logged in and Scanned: 8am 11/5 By: Rosa Arce Forwarded to: Joey Garza

Engineer	Name	Date	Comment
Scope of work reviewed			

Accounting	Name	Date	Comment
Encumbrance			
Purchase Order Attached			
Audit			
Final Approval for Agenda			

	Name	Date	Comment
Placed on Agenda			

Additional Comments: _____



November 4, 2014

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 #4 on Mission Inlet Recertification Project – Progress Report

Job #130204
P.O. #624010

Dear Mr. Garza,

Attached for your review and approval is our invoice for the services rendered during the month of October 2014 on the subject referenced project.

The following is attached:

- L&G's Invoice # 11324984
 - CD w/ Inv Back-Up (Elec File Submit)
 - Task 8 & Task 9 (Together)

TASK		% COMPL
FC13001 – Task 1 ~ Compilation & Review of Public Records (Appraisal District, Hidalgo County Records, HCDD #1 Easement & Quit Claim Deeds)	L&G	100%
Task Complete – See progress report dated February 4, 2014		
FC16104 – Task 2 ~ Georeferencing of Parcels & Survey Plat Information for Overall Existing Floodway/Levee Easement Map	L&G	100%
Task Complete – See progress report dated February 4, 2014		
FC11001 – Task 3 ~ Sketching of Parcels & Survey Plats for Floodway/Levee Easements Identified w/ No Survey Info (Using Easement Claim Parameters)	L&G	100%
Task Complete – See progress report dated February 4, 2014		
FC10201 – Task 4 ~ Researching & Cross Referencing Latest HC Appraisal District Info w/ Documented Floodway/Levee Easement Data	L&G	100%
Task Complete – See progress report dated February 4, 2014		
FC16101 – Task 5 ~ Calculation of Areas of Existing Levee & Floodway Easements for Potential Release of Lien	L&G	100%
Task Complete – See progress report dated February 4, 2014		
FC10205 – Task 6 ~ Segmenting, Organizing & Databasing (Electronic & Hard Copies) Existing HCDD #1 Data (Section I, II and III Project Binders)	L&G	100%
Task Complete – See progress report dated February 4, 2014		
FC10204 – Task 7 ~ Support to HCDD #1 on Project Development (i.e. Meetings w/	L&G	100%

Land Owners, Coord. w/ County, Coord. w/ Cities, etc.)		
Task Complete – See progress report dated February 4, 2014		
FC16106 – Task 8 ~ Coord. & Supp. to CSE - HEC-HMS, RAS, & SWMM Model	L&G	100%
Task Complete – L&G has actively managed and provided oversight of the work denoted in Task 9 for completion of this task.		
FC16170 – (SUB) Task 9 ~ Phase II – Proposed Condition H&H Modeling Analysis	CSE	100%
Task Complete – See progress report from CSE titled ‘Period of Coverage October 2014’ (see attached)		
FC10203 – Task 10 ~ Coord. w/ USIBWC/USACE for Cert. of Levee Sections	L&G	56.9%
No Update – See progress report dated October 2, 2014		
FC16107 – Task 11 ~ Coord. w/ FEMA for Accreditation of Levee	L&G	63.8%
No Update – See progress report dated October 2, 2014		
FC16109 – Task 12 ~ Development of Final Proposed Conditions Graphic Files (Location Specific Exhibits) In Concert w/ H&H Modeling (Incl. Structure Sizing)	L&G	63%
No Update – See progress report dated October 2, 2014		
FC11004 – Task 13 ~ Development of Final Proposed Conditions Schematic w/ Typical Sections (For Usage in PS&E Development)	L&G	25%
No Update – See Progress Report Dated August 4, 2014		
FC16108 – Task 15 ~ Coordination and Support to Hydraulic Engineer for Conditional Letter of Map Revision	L&G	28.6%
No Update – See progress report dated October 2, 2014		
FC11040 – (SUB) Task 16 ~ Phase III – Conditional Letter of Map Revision	CSE	25.7%
No Update – See progress report from CSE dated September 2014		
Direct Expenses	L&G	54.8%
No Update – See Progress Report Dated August 4, 2014		

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.
Senior 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#: 11324984
INVOICE DATE: 10/31/2014

RECEIVED
 HIDALGO COUNTY
 DRAINAGE DISTRICT #1

NOV 04 2014
 4:31 AM (PM)
 BY: Rosa Ong

BILL TO: 87
 Hidalgo County Drainage District#1
 902 N. Doolittle
 Edinburg, TX 78542

JOB: 130204
 Mission Inlet Recertification Project
 WA#4
 P.O.#624010

DESCRIPTION	CONTRACT	PREVIOUS APPLICATIONS	CURRENT COMPLETED	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH
Engineering services for the month of October 2014.						
FC 13001 - Task 1 - Compilation & Review of Public Records	12,004.46	12,004.46		12,004.46	100.0	-
FC 16104 - Task 2 - Georeferencing of Parcels & Survey Plat	13,655.78	13,655.78		13,655.78	100.0	-
FC 11001 - Task 3 - Sketching of Parcels & Survey Plats for F	13,655.78	13,655.78		13,655.78	100.0	-
FC 10201 - Task 4 - Researching & Cross Referencing Latest HC	9,878.66	9,878.66		9,878.66	100.0	-
FC 16101 - Task 5 - Calculation of Areas of Existing Levee &	10,429.26	10,429.26		10,429.26	100.0	-
FC 10205 - Task 6 - Segmenting, Organizing & Databasing	8,753.46	8,753.46		8,753.46	100.0	-
FC 10204 - Task 7 - Support to HCDD#1 on Project Development	58,837.20	58,837.20		58,837.20	100.0	-
FC 16106 - Task 8 - Coordination and Support to Hydraulic Eng	39,691.72	39,041.44	650.28	39,691.72	100.0	-
FC 16170 - Task 9 - SUB/Phase II - Proposed Conditions H&H Mo	394,813.00	383,305.17	11,507.83	394,813.00	100.0	-
FC 10203 - Task 10 - Coordination with USIBWC/USACE for Certi	19,270.72	10,960.93		10,960.93	56.9	8,309.79
FC 16107 - Task 11 - Coordination with FEMA for Accreditation	11,267.32	7,184.33		7,184.33	63.8	4,082.99
FC 16109 - Task 12 - Development of Proposed Conditions Graph	12,830.52	8,084.73		8,084.73	63.0	4,745.79
FC 11004 - Task 13 - Development of Final Proposed Conditions	33,989.56	8,497.39		8,497.39	25.0	25,492.17
FC 16401 - Task 14 - Preliminary Engineering Report Summarizi	18,782.74			0.00	0.0	18,782.74
FC 16108 - Task 15 - Coordination and Support to Hydraulic En	21,321.50	6,102.62		6,102.62	28.6	15,218.88
FC 11040 - Task 16 - Sub/Phase III - Conditional Letter of Ma	212,227.00	54,637.23		54,637.23	25.7	157,589.77
FC 16301 - Task 17 - Development of Final Binder w/All Data,	15,768.92			0.00	0.0	15,768.92
	907,177.60	645,028.44	12,158.11	657,186.55		249,991.05
Direct Expenses	16,250.00	8,898.82	0.00	8,898.82	54.8	7,351.18
	16,250.00	8,898.82	0.00	8,898.82		7,351.18
TOTALS:	923,427.60	653,927.26	12,158.11	666,085.37	72.1	257,342.23

ORIGINAL CONTRACT SUM	\$ 923,427.60
CHANGE BY CHANGE ORDER	\$ 0.00
CONTRACT SUM TO DATE	\$ 923,427.60
TOTAL COMPLETED TO DATE	\$ 666,085.37
LESS PREVIOUS INVOICES	\$ 653,927.26
CURRENT PAYMENT DUE	\$ 12,158.11


 PROJECT MANAGER'S SIGNATURE

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

Project Workhour Report

Mission Inlet Recert. Project WA#4

Reference: Inv# 11324984

Date: 10/31/2014

P.O.#624010

	Hrs		Rate	Total
Senior Project Manager	2.00	X	212.59	\$425.18
Senior Engineer	0.00	X	175.07	\$0.00
Design Engineer	2.00	X	112.55	\$225.10
Senior Engineer Tech	0.00	X	78.16	\$0.00
ROW Administrator	0.00	X	106.29	\$0.00
Admin/Clerical	0.00	X	56.27	\$0.00

Grand Total of Hours

\$ 650.28

(Difference due to rounding hours)

\$ -

Invoice Summary

Man Hours

\$ 650.28

Sub Contract

\$ 11,507.83

(See Attached Sub Invoice for Man Hour Breakdown)

Direct Expenses	Current Units		Rate		
30 ft. Long by 3 ft. Tall Schematic Exhibit (90sq. Ft) @\$5.00/sq. ft	0	X	1,350.00	\$	-
8.5 X 11 Copies (i.e. Section I, II, III Inventory Binders) - (4,000 units)	0	X	2,000.00	\$	-
Travel	0	X	2,500.00	\$	-
				\$	-
				\$	-

(Difference due to rounding)

\$ -

Total Per Invoice Submitted

\$ 12,158.11



**Civil Systems
Engineering, Inc.**

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

INVOICE

Engineering Services
Mission Inlet Recertification Project - Phase II & III

L&G Engineering
2100 W. Expressway 83
Mercedes, Texas 78570
Attention: Mr. Reza Badiozzamani, P.E.

CSE Invoice Number: 201444
CSE Project Number: LG2013013
Invoice Period: 9/26/2014 Through 10/25/2014
Invoice Date: October 31, 2014

Contract Amount	Contract Amount Remaining
\$607,040.00	\$157,589.77

Phase II - Alternative Analysis

Employee Classification	Rate	Previous		This Period		To Date	
		Hr	Total	Hr	Total	Hr	Total
Project Manager	\$178.36	251.0	\$44,768.36	12.0	\$2,140.32	263.0	\$46,908.68
Project Engineer	\$164.64	1,762.1	\$290,105.21	42.7	\$7,035.01	1,804.8	\$297,140.23
GIS Specialist	\$137.20	353.0	\$48,431.60	17.0	\$2,332.40	370.0	\$50,764.00
Subtotal			\$383,305.17		\$11,507.83		\$394,813.00

Phase III - CLOMR

Employee Classification	Rate	Previous		This Period		To Date	
		Hr	Total	Hr	Total	Hr	Total
Project Manager	\$178.36	48.0	\$8,561.28		\$0.00	48.0	\$8,561.28
Project Engineer	\$164.64	250.0	\$41,160.00		\$0.00	250.0	\$41,160.00
GIS Specialist	\$137.20	35.8	\$4,915.95		\$0.00	35.8	\$4,915.95
Subtotal			\$54,637.23		\$0.00		\$54,637.23

TOTAL FEE EARNED: \$449,450.23
LESS PREVIOUSLY INVOICED: \$437,942.40
TOTAL AMOUNT DUE THIS INVOICE: **\$11,507.83**

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

Mission Inlet Recertification Project – Phase II
Monthly Progress Report No. #8 – October 2014

Period of Coverage: October 2014
Date of Submittal: November 2, 2014
Submitted To: Reza Badiozzamani, P.E.
Prepared By: Civil Systems Engineering Inc.

Phase II for the Mission Inlet Recertification Project is to evaluate alternative components and improvement plans to Mission Inlet to reclaim portion of the lands within the effective floodplain and to provide a higher flood protection to the existing developments. This study covers the following activities:

PHASE II. ALTERNATIVE COMPONENT AND PLAN ANALYSIS

1. Coordination with HCDD1, L&G, FEMA, and IBWC
2. Proposed conditions HEC-HMS modeling analysis
3. Proposed conditions HEC-RAS modeling analysis
4. Perform 1D and 2-D SWMM dynamic modeling analysis
5. Perform constrain and opportunities analysis.
6. Formulate alternative plans for the project.
7. Perform detailed hydrologic and hydraulic modeling analysis to evaluate and optimize alternative plans and recommend a preferred proposed plan for the project.
8. Perform flood hazard mapping using the resulting water surface data and the LiDAR topographic data for the recommend plan.
9. Cost estimation.
10. Prepare a Technical Report to summarize the assumptions, methodology, and results for the project.

PHASE III. CONDITIONAL LETTER OF MAP REVISION (CLOMR)

1. Coordination with FEMA and other relevant agencies.
2. Prepare MT-2 application forms.
3. Prepare narrative on project and submittal.
4. Prepare hydrologic computations results along with digital files of computer models used.
5. Prepare hydraulic computations along with the digital files of computer models used.
6. Prepared certified topographic map with floodplain and floodway delineations.
7. Prepare annotated FEMA FIRM and/or FBFM to reflect changes due to the proposed to the Mission Inlet drainage system.
8. Address FEMA comments

PROGRESS TO REPORT FOR THIS PERIOD

I. ALTERNATIVE COMPONENT AND PLAN ANALYSIS

Activity 1 – Coordination and meetings

Meeting with HCDD1 and LG to finalize draft report

Activity 2 – Proposed conditions HEC-HMS modeling analysis

Activity 3 – Proposed conditions HEC-RAS modeling analysis

Activity 4 – 1D and 2D SWMM modeling analysis

Activity 5 – Perform constrains and opportunities analysis

Activity 6 – Alternative plan formulation

Activity 7 – Alternative evaluation and optimization

Activity 8 – Flood hazard mapping

Activity 9 – Cost estimation

Activity 10 – Technical report.

Completed and submitted draft technical report.

II. CONDITIONAL LETTER OF MAP REVISION (CLOMR)

Activity 1 -Coordination with FEMA and other relevant agencies.

Activity 2 - Prepare MT-2 application forms.

Activity 3 -Prepare narrative on project and submittal.

Activity 4 - Hydrologic computations results along with digital files of computer models used.
Developing digital map data based on results for both existing and proposed Mission Inlet main

stream.

Activity 5 - Prepare hydraulic computations along with the digital files of computer models used.
Preparing water surface profiles for Mission Inlet main stream.

Activity 6 - Prepared certified topographic map with floodplain and floodway delineations.
Develop preliminary floodplain.

Activity 7 - Prepare annotated FEMA FIRM and/or FBFM to reflect changes due to the proposed
to the Mission Inlet drainage system.

Activity 8 - Address FEMA comments

AI-47356

3.

DRAINAGE - CONSENT

Meeting Date: 11/18/2014

Submitted By: Sylvia Sanchez, DRAINAGE
DISTRICT

Department: DRAINAGE DISTRICT

Information

CAPTION

Utility Permit:

City of Pharr - proposes to place a 12" & 5" PVC Water main lines within HCDD1 ROW of Pharr-McAllen South Drain located at Jackson Road.

BACKGROUND

Form Review

Inbox	Reviewed By	Date
Budget & Management	Debbie Tamez	11/10/2014 10:47 AM
Final Approval	Monica Badillo	11/14/2014 05:07 PM
Form Started By: Sylvia Sanchez		Started On: 11/10/2014 08:36 AM
	Final Approval Date: 11/14/2014	