



# Purchase Order COUNTY OF HIDALGO

PO# 747439

DATE: 07/28/16

PAGE NO: 1 OF 1

PO TYPE:

VENDOR: 284009

REQ: 00303032

PHONE: (956) 383-8522

Fax: (956) 383-0295

EMAIL:

SHIP TO: HIDALGO CO. PCT 4

1051 N. DOOLITTLE

EDINBURG TX 78542

MILLENNIUM ENGINEERS GROUP, INC.

P.O. BOX 4569

EDINBURG TX 78540-4569

CONTACT: NICK PEREZ

(956) 383-3112

SITE: COMMISSIONER, PRECINCT 4

CONTRACT NO: C-16-173-07-06

**SPECIAL INSTRUCTIONS: PCT# 943**

**VENDOR NOTES**

1. Do not add to, or alter this Purchase Order. This Order is not renewable.
2. TAX EXEMPTION: This Purchase Order may be accepted in lieu of Exemption Certificate.
3. This Order is also placed F.O.B. Destination. Vendor must repay all shipping costs.
4. Invoice each Purchase Order singly. Original invoices are required customer copy may be accepted. Ord number must appear on all invoices, bills of lading, and packages.
5. Payment will be made only for bona fide and full completed orders, unless otherwise attached.

QTY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
		DO NOT DUPLICATE ORDER		
		C-16-173-07-06 EXP: 07/05/2016 Millennium Engineers Group, Inc. "Construction Material Testing / GEO Technical Services" for (job specific) project: "Alberta Drain"		
1.00	LOT	CC "Construction Material Testing / GEO Technical Services" for (job specific) project: "Alberta Drain" within Hidalgo County Precinct No. 4	57,152.00	57,152.00
		<b>TOTAL:</b>		57,152.00
		***** For Hidalgo County use only 6-1200-431-00-124-177-0-339		57,152.00

Authorized by: \_\_\_\_\_

*Martha Salazar*



**Construction Materials Testing Proposal  
Alberta Drain Project**

**SOILS SECTION**

**Task: Backfill Sample at Roadway (Per Trip, 8 trips estimated)**

Line Item	Qty.	Unit Rate	Estimated Cost
	2.5	50.00	125.00
Soil Engineering Technician (hourly)	1	200.00	200.00
Standard Proctor (each)	1	70.00	70.00
Atterberg Limits (each)	1	40.00	40.00
Vehicle trip charge (each)	1	30.00	30.00
Test Report (each)	1	62.50	62.50
Project Engineer (hourly)	0.5	125.00	18.75
Project Management (hourly)	0.25	75.00	18.75
Clerical (hourly)	1	50.00	50.00
Sub-Total (per trip)	1	-	696.25
Sub-Total (per task)	8	696.25	4,770.00

**Task: Backfill density testing at Roadway (Per Trip, 60 trips estimated)**

Line Item	Qty.	Unit Rate	Estimated Cost
	2.5	50.00	125.00
Soil Engineering Technician (hourly)	3	28.00	84.00
Nuclear density test (each)	1	40.00	40.00
Vehicle trip charge (each)	1	30.00	30.00
Test Report (each)	1	62.50	62.50
Project Engineer (hourly)	0.5	125.00	18.75
Project Management (hourly)	0.25	75.00	18.75
Clerical (hourly)	1	50.00	50.00
Sub-Total (per trip)	1	-	410.25
Sub-Total (per task)	60	410.25	24,615.00

**Task: Flexible Base Sample at Roadway Trench (Per Sample, 2 samples estimated)**

Line Item	Qty.	Unit Rate	Estimated Cost
	2.5	50.00	125.00
Soil Engineering Technician (hourly)	1	200.00	200.00
Standard Proctor (each)	1	70.00	70.00
Atterberg Limits (each)	1	55.00	55.00
Sieve Analysis (each)	1	210.00	-
Wet Ball Mill (each)	1	40.00	40.00
Vehicle trip charge (each)	1	30.00	30.00
Test Report (each)	1	62.50	62.50
Project Engineer (hourly)	0.5	125.00	18.75
Project Management (hourly)	0.25	75.00	18.75
Clerical (hourly)	1	50.00	50.00
Sub-Total (per sample)	1	-	651.25
Sub-Total (per task)	2	651.25	1,302.50

**Task: Flexible Base density testing at Roadway Trench (Per Trip, 30 trips estimated)**

Line Item	Qty.	Unit Rate	Estimated Cost
	2.5	50.00	125.00
Soil Engineering Technician (hourly)	3	28.00	84.00
Nuclear density test (each)	1	40.00	40.00
Vehicle trip charge (each)	1	30.00	30.00
Test Report (each)	1	62.50	62.50
Project Engineer (hourly)	0.5	125.00	18.75
Project Management (hourly)	0.25	75.00	18.75
Clerical (hourly)	1	50.00	50.00
Sub-Total (per trip)	1	-	410.25
Sub-Total (per task)	30	410.25	12,307.50

**SOILS Section Total**

**42,995.00**

Construction Materials Testing Services  
 MEG Work Authorization No. 1  
 June 20, 2016



CONCRETE SECTION

Task: Concrete testing at Spillway/Canal Riprap/Footing (Per Trip, 18 trips estimated)

Line Item	Qty.	Unit Rate	Estimated Cost
Concrete Engineering Technician (hourly)	5	55.00	275.00
Slump Test (each)	1	20.00	20.00
Air Content, Pressure (each)	1	25.00	25.00
Concrete Compressive Strength Test	4	16.00	64.00
Vehicle trip charge (each)	2	40.00	80.00
Test Report (each)	2	30.00	60.00
Project Engineer (hourly)	1.0	126.00	126.00
Project Management (hourly)	0.5	75.00	37.50
Clerical (hourly)	2	50.00	100.00
Sub-Total (per trip)	1	-	786.50
Sub-Total (per task)	18	786.60	14,157.00

Concrete Section Total

14,157.00

Total Estimated Cost

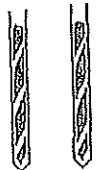
\$57,152.00



EXHIBIT "C"  
ENGINEER'S CONTRACT FEE SCHEDULE

For the services to be provided by the ENGINEER the charge will be on the basis of the units and unit fee rates established in this schedule of tests, staff personnel services and additional services. The overtime premium, required by the Fair Labor Standards Act for nonexempt classifications, will be charged for overtime hours worked because of the County's requirements and its authorization. However, except for the overtime premium, the maximum charges shall not exceed the rates shown in this schedule.

<b>SOILS AND AGGREGATE SECTION</b>		
Material Preparation Time (per hour).....		\$50.00
Atterberg Limits (each test).....		70.00
Sieve Analysis		55.00
Dry through No. 40 (each test).....		12.00
Additional Sieves (each sieve).....		45.00
Percent Passing No. 200 Sieve (each test).....		
Moisture Density Relationship		200.00
Standard Proctor (each test).....		215.00
Modified Proctor (each test).....		215.00
TxDOT Proctor (each test).....		
Nuclear Density Test (In conjunction with Inspection)		28.00
Nuclear Density Test (min. 3, each test).....		6.00
Depth Test (each test).....		210.00
Wet Ball Mill (each test).....		
Determination of Optimum Lime Content		275.00
PI Method -- (each test).....		275.00
Tex 121-E - (each test).....		275.00
PH Method-- (each test).....		75.00
Additional Points (each point).....		750.00
California Bearing Ratio (each test).....		175.00
Additional Specimens (each specimen).....		13.00
Small Moisture Content of Aggregates and Base (each test).....		35.00
Large Moisture Content of Aggregates and Base (each test).....		85.00
Linear Shrinkage (each test).....		80.00
pH (each test).....		90.00
Resistivity of Soils (each test).....		75.00
Specific Gravity (each test).....		45.00
Unit Weight (each test).....		500.00
Soundness (each test).....		80.00
Sulfate Content (each test).....		275.00
Hydrometer (each test).....		
<b>BITUMINOUS SECTION</b>		
Material Preparation Time (per hour).....		\$55.00
Sieve Analysis for Fine and Coarse Aggregate (Tex 200-F or ASTM)		55.00
Dry (each test).....		12.00
Additional Sieves (each sieve).....		





Sand Equivalent (each test) .....	75.00
Extraction & Gradation, Percent Asphalt (each test).....	250.00
Asphalt Cores (each core).....	60.00
Asphalt Core Density (each core).....	40.00
Thickness of Cores (each core).....	15.00
Theoretical Maximum Specific Gravity (each test) .....	60.00
Lab Density (each test).....	65.00
Effect of Water on Bituminous Paving Mixtures (each test) .....	75.00
Hveem Stability (each test).....	105.00
Coring Rig (per day).....	95.00
Asphaltic Concrete Design and Other Services .....	By Quote
Percent Passing No. 200 Sieve (per test).....	45.00
Molding Specimens (per set).....	60.00

**CONCRETE SECTION**

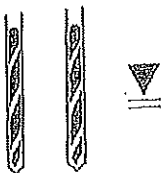
Material Preparation Time (per hour).....	\$55.00
Slump Test (In conjunction with Inspection)	
Slump Test (each test).....	20.00
Air Content of Fresh Concrete (In conjunction with Inspection)	
Pressure (each test).....	25.00
Volumetric (each test) .....	35.00
Concrete Cylinder Compressive Strength Test (each cylinder).....	16.00
Strip & Hold Cylinder (each cylinder).....	15.00
Concrete Beam Flexure Strength Test	
6x6x22 (each beam).....	40.00
Strip & Hold Beam (each beam).....	15.00
Concrete Cores By Circumference Area (Min. 100 sq. in.).....	2.00/sq. in.
Sawing of Concrete Cylinders or Cores (per end, per core).....	25.00
Thickness of Cores (each core).....	15.00
Coring Rig (per day).....	95.00
Portland Cement Concrete Design or other services .....	By Quote

**MASONRY SECTION**

Material Preparation Time (per hour).....	\$59.00
Grout Prism (each prism).....	24.00
Mortar Prism (each prism).....	24.00

**SOIL EXPLORATION AND GEOTECHNICAL SERVICES**

Drilled Borings	
In Soil, 0 - 50 feet (per foot).....	\$19.00
In Soil, 50 - 100 feet (per foot).....	22.50
In Rock .....	By Quote
Non-Conventional Drilling.....	By Quote
Standard Penetration Test (each test).....	12.00





HIDALGO COUNTY  
ENGINEERS' FEE SCHEDULE

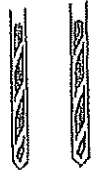
Texas Cone Penetration Test (each test).....	20.00
Shelby Tube Sampling (each test).....	20.00
Mobilization and Demobilization - In Rio Grande Valley (each trip)...	350.00
Mobilization and Demobilization - Outside Rio Grande Valley (each mile) 3.50/mile	
Mobilization of Non-Conventional Drilling Equipment .....	By Quote
Trip Charge For Logger (each mile).....	0.80
Standby Time, Rig plus 2 man crew (per hour).....	200.00
Well Installation.....	By Quote
Technician To Log Soil Test Boring (per hour).....	59.00
Field Coordination	
Field Engineer (per hour).....	115.00
Utility Clearance (per hour).....	70.00
Flagman (per hour).....	59.00
Per Diem (If required) .....	Cost + 15%
Unconfined Compression (each test).....	45.00
Moisture Content (each test).....	13.00
Grout Backfill (per foot).....	5.00
Dozer/Clearing .....	Cost + 15%
Asphalt Pavement Coring (each core).....	100.00
Concrete/Asphalt Patch (per location).....	75.00

**TECHNICIAN SERVICES**

Soil Engineering Technician (per hour) (Min. 2 Hrs).....	\$50.00
Concrete Engineering Technician (per hour) (Min. 2 Hrs).....	55.00
Asphalt Engineering Technician (per hour) (Min. 2 Hrs).....	55.00
Masonry Engineering Technician (per hour) (Min. 2 Hrs).....	59.00
Senior Engineering Technician (per hour).....	59.00
Plant Inspection, Reinforcing Steel Inspection, Etc. (Min. 2 Hrs)	
Construction Inspection Engineering Technician Time (per hour).....	59.00
Plant Inspection, Reinforcing Steel Inspection, Etc. (Min. 2 Hrs)	
Engineering Specialist (per hour).....	70.00
Pier Inspection, Pile Load Inspections, Etc. (Min. 2 Hrs)	
Certified Welding Inspector (per hour) (Min. 4 Hrs).....	90.00

**OTHER SERVICES**

Vehicle Trip Charge (per trip) (within 25 miles of office).....	\$40.00
Vehicle Trip Charge (per mile) (beyond 25 miles of office).....	0.80
Other Testing Not Specified (Option 1) .....	Cost + 15%
Other Testing Not Specified (Option 2) (per hour).....	56.00
Other Services, Outside Services or Supplies.....	Cost + 15%
Test Reports (each report).....	30.00
Clerical/Administrative (per hour).....	50.00
Fax (per page).....	1.00
Photocopies	
8 1/2" x 11" (per page).....	0.12





8 1/2" x 14" (per page).....	0.15
11" x 17" (per page).....	0.20
Additional Insured (per request).....	200.00
<b>PROFESSIONAL SERVICES</b>	
Principal Engineer (per hour).....	\$165.00
Project Engineer (per hour).....	125.00
Staff Engineer (per hour).....	110.00
<b>PROJECT MANAGEMENT AND COORDINATION OF SERVICES PROVIDED</b>	
Applied to each invoice of net services provided	
Project Management (per hour).....	\$75.00

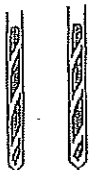
**BASIC SERVICES AGREEMENT**

MEG will charge overtime at the rate of 1.5 applicable for technicians for services performed before 7 AM and after 6 PM on Monday through Friday, after 8 continuous hours on the Client's project and on Saturday, Sunday and holidays.

Hours billed will be from our office at 5804 N. Gumwood, Pharr, Texas, port to port. Fractions of hours will be billed as whole hours. Technician hours will be billed a minimum of 2 hours.

Laboratory testing performed after normal work hours of 7 AM to 6 PM on Monday through Friday will be billed the test rate plus applicable overtime hourly charges.

Project management will be billed for report review, coordination and management of project personnel at a rate of one hour for every two reports.





# Invoice

Date	Invoice #
3/31/2017	619214-0417

Millennium Engineers Group Inc  
 PO Box 4569, Edinburg, Texas  
 78540-4569



Bill To
Hidalgo County Precinct 4 Attn: Maria Lucio 1051 N. Doolittle Rd. Edinburg, Texas 78542

Terms	Due Date	MEG Project
Due on receipt	3/31/2017	Alberta Drainage Project

Description	Qty	Rate	Amount
PO#747439			
Report No. 01-16-19214-9-1			
Concrete Engr. Technician (hourly)	5	55.00	275.00
Slump Test (each)	1	20.00	20.00
Air Content of Fresh Concrete (each)	1	25.00	25.00
Concrete Cylinders Compressive Strength Test (each)	4	16.00	64.00
Vehicle Trip Charge (each)	2	40.00	80.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	1	125.00	125.00
Project Management (hourly)	0.5	75.00	37.50
Clerical (hourly)	2	50.00	100.00

<b>Total</b>	\$756.50
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Phone #	Fax #
9567028500	(956) 702-4180

<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	\$756.50

Make all checks payable to Millennium Engineers Group, Inc.  
 Any questions regarding this invoice please contact our Accounts Receivables Department at  
 (956) 702-8500

**CONCRETE INSPECTION SERVICES  
FIELD TESTING REPORT**



Project Name: Alberta Drainage Project

MEG Report Number: 01-16-19214-9-1

Client: Hidalgo County Precinct No.4  
P.O. # 747439

Service Date: March 2, 2017

Reported Date: March 3, 2017

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**CONCRETE INSPECTION SERVICES**

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On 03/02/17 a representative of Millennium Engineers Group, Inc. was dispatched to the project site to perform inspection of the placement of ready mix concrete at the Pipe Outlet Wall Support.

Set No.	Total Samples	Cylinder Size (In)	Time Sampled	Slump (In)	Air Content
1	4	4 x 8	10:00 a.m.	3 1/2"	2.0%

On 03/03/17 a representative of Millennium Engineers Group, Inc. was dispatched to the project site to pick up the specimens cast on the previous day. The specimens were transported to the laboratory where they were striped from their forms, properly labeled, and placed in curing tanks in preparation for compressive strength testing intervals of 7 and 28 days.

**MILLENNIUM ENGINEERS GROUP, INC.**  
T&PE FIRM No. F-3913

A handwritten signature in blue ink, appearing to read "R. Palma", is written over a horizontal line.

Raul Palma, Senior Materials Engineer

Original message -----

From: Jose Alvarez <jose.alvarez1@hcdd1.org>

Date: 3/1/17 6:00 PM (GMT-06:00)

To: Sergio Tovar <stovar@megengineers.com>

Cc: Raul Sesin <raul.sesin@hcdd1.org>, Eliza Yzaguirre <areanna.yzaguirre@co.hidalgo.tx.us>, Noe Saldivar <noe.saldivar@hcdd1.org>, Humberto Palma <mtapia@megengineers.com>, Humberto Palma <hpalma@megengineers.com>, Justin Borjas <justinborjas1989@gmail.com>

Subject: Project Name/Location: Hidalgo County Precinct No. 4 Alberta Drain

Good Afternoon Sergio,

Please see Testing Request Below:

Date of Service Requested: 03-02-17 Thursday

Project Name/Location: Hidalgo County Precinct No. 4 Alberta Drain

Time of Needed Services: 09:30 AM

Type of Service Requested: 1 Set of Concrete Cylinders for West Rip Rap

-  
-  
-  
-

Note: Testing Time had already been coordinated with S.Tovar

Thank You

**Jesse Alvarez**

Construction Inspector

Hidalgo County Drainage District No. 1

Engineering Projects Office

902 N. Doolittle Road

Edinburg , Texas 78542

Phone: (956) 292-7000 ext. 2029

Mobile: (956) 929-0037

[Jose.alvarez1@hcdd1.org](mailto:Jose.alvarez1@hcdd1.org)

Sent from my iPhone



REQUEST FOR SERVICES (CMT)

Date of Requested Services: 3-2-17 Time: 9:30 AM/PM

Project Name/Location: Alberta Drainage

Services Requested: Concrete Pour

Comments:

Signature of Owner's Authorized Representative: [Signature]

Printed Name of Representative: Jessica Boyer



### REQUEST FOR SERVICES (CMT)

Date of Requested Services: 3-2-17 Time: 9:30 AM PM

Project Name/Location: Alberta Drainage

Services Requested: Concrete Pour

Comments: \_\_\_\_\_

Signature of Owner's Authorized Representative: X [Signature]

Printed Name of Representative: X Justin Bergin

# CONCRETE COMPRESSIVE STRENGTH LABORATORY TESTING REPORT



Project Name: Alberta Drainage Project

MEG Report Number: 01-16-19214-10-1

Client: Hidalgo County Precinct No.4  
P.O. # 747439

Service Date: March 2, 2017

Reported Date: March 9, 2017

### PLACEMENT AND SET DATA (ASTM C 31)

Mix I.D.:	3000 PSI	Structure:	Walls
Supplier:	CAPA	Location:	Canal Outlet Pipe, Wall Support at West Side
Specified Strength:	3000 psi at 28 days	Cubic Yards:	30 (CY)
Specified Slump:	3 Inches	Slump:	3 1/2 Inches
Specified Air Content:	N/A Percent	Air Content:	2.0 Percent
Truck Number:	543	Weather Conditions:	Cloudy Low Winds
Plant Ticket Number:	2037987	Ambient Air Temp.:	61 Degrees (F)
Time Batched:	9:00 AM	Concrete Temp.:	72 Degrees (F)
Time Sampled:	10:00 AM	Water Added:	0 (Gal.)
Cylinder Size:	4x8 Inch Cylinder		

### COMPRESSIVE STRENGTH TEST DATA (ASTM C 39)

Specimen No.	Cross-sectional Area(sq. in.)	Test Date	Age (days)	Max. Load (lbs.)	Type of Fracture (1 - 6)	Compressive Strength (psi)	Test Result (Pass/Fail)
1A	12.57	3/9/17	7	32075	5	2552	

Field testing of fresh concrete and laboratory testing of hardened concrete specimens performed in accordance with applicable ASTM or TxDOT standards as required by the project specifications. Specimens not scheduled for testing will be discarded after 28 days.

Fracture Type: 1- Cone; 2- Cone/Split; 3- Columnar; 4- Shear; 5- Side Fracture; 6- Side Fracture, Pointed.

**MILLENNIUM ENGINEERS GROUP, INC.**  
TBPE FIRM No. F-3913

Raul Palma, Senior Materials Engineer