



# Invoice

Date	Invoice #
10/31/2015	419203-1115

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

Bill To
Hidalgo Co. Precinct No. 1 Mr. Raul Lozano 1902 Joe Stephens Ave. Suite 101 Weslaco, Texas 78596

Terms	Due Date	MEG Project
Due on receipt	10/31/2015	Sioux Rd. Paving and Drainage Improv.

Description	Qty	Rate	Amount
PO# 713933			
Report No. 01-14-19203-5-1			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Atterberg Limits (each)	1	61.00	61.00
Standard Proctor (each)	1	175.00	175.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-6-1			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each)	2	22.00	44.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-7-1			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	3	22.00	66.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00

INVOICE RECEIVED BY  
*M. Lozano* on 11/17/15  
 GOODS/SERVICES RECEIVED BY:  
 \_\_\_\_\_ on \_\_\_\_\_

PCT. # 1  
 CIP  
 5 -1303-431-00-121-183-0-721

Innovative. Experienced. Professional.	<b>713933</b>	<b>Total</b>
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Phone #	Fax #
(956) 383-8522	(956) 383-0295

<b>Payments/Credits</b>
<b>Balance Due</b>

Make all checks payable to Millennium Engineers Group, Inc.  
 Any questions regarding this invoice please contact our Accounts Receivables Department at (956) 383-8522.



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Hidalgo Co. Precinct No. 1 Mr. Raul Lozano 1902 Joe Stephens Ave. Suite 101 Weslaco, Texas 78596

<b>Terms</b>	<b>Due Date</b>	<b>MEG Project</b>
Due on receipt	10/31/2015	Sioux Rd. Paving and Drainage Improv.

Description	Qty	Rate	Amount
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-8-1,3			
Engr. Technician (Soils) (per hour)	2.75	41.00	112.75
Standard Proctor (each)	3	175.00	525.00
Atterberg Limits (each test)	3	61.00	183.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-9-1			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	5	22.00	110.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-10-1			
Asphalt Engineering Technician (hourly)	4	44.00	176.00
Nuclear Density Test - Asphalt (each test)	3	22.00	66.00

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Hidalgo Co. Precinct No. 1 Mr. Raul Lozano 1902 Joe Stephens Ave. Suite 101 Weslaco, Texas 78596

<b>Terms</b>	<b>Due Date</b>	<b>MEG Project</b>
Due on receipt	10/31/2015	Sioux Rd. Paving and Drainage Improv.

Description	Qty	Rate	Amount
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
<b>Report No. 01-14-19203-10-2</b>			
Extraction & Gradation, Percent Asphalt (each)	1	225.00	225.00
Theoretical Maximum Specific Gravity of Mixtures (each)	1	60.00	60.00
Lab Density (each test)	1	65.00	65.00
<b>Report No. 01-14-19203-11-1</b>			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	3	22.00	66.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
<b>Report No. 01-14-19203-12</b>			
Soil Engr. Technician (hourly)	2.5	41.00	102.50
Atterberg Limits (each test)	1	61.00	61.00
Sieve Analysis (each)	1	55.00	55.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00

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Terms	Due Date	MEG Project
Due on receipt	10/31/2015	Sioux Rd. Paving and Drainage Improv.

Description	Qty	Rate	Amount
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-13			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	6	22.00	132.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-14			
Soil Engineering Technician (hourly)	3	41.00	123.00
Atterberg Limits (each test)	2	61.00	122.00
Standard Proctor (each)	2	175.00	350.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-15-1			
Asphalt Engineering Technician (hourly)	4	44.00	176.00
Nuclear Density Test - Asphalt (each test)	3	22.00	66.00

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Hidalgo Co. Precinct No. 1 Mr. Raul Lozano 1902 Joe Stephens Ave. Suite 101 Weslaco, Texas 78596

<b>Terms</b>	<b>Due Date</b>	<b>MEG Project</b>
Due on receipt	10/31/2015	Sioux Rd. Paving and Drainage Improv.

Description	Qty	Rate	Amount
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-15-2			
Extraction & Gradation Percent Asphalt (each)	1	225.00	225.00
Theoretical Maximum Specific Gravity of Mixtures (each test)	1	60.00	60.00
Lab Density (each test)	1	65.00	65.00
Report No. 01-14-19203-16-1			
Engr. Technician (Soils) (per hour)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	5	22.00	110.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-17-1			
Asphalt Engineering Technician (hourly)	6	44.00	264.00
Coring Rig (each)	1	75.00	75.00
Asphalt Cores (each)	4	60.00	240.00
Asphalt Core Density (each)	4	40.00	160.00
Vehicle Trip Charge (per trip)	2	37.00	74.00

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Terms	Due Date	MEG Project
Due on receipt	10/31/2015	Sioux Rd. Paving and Drainage Improv.

Description	Qty	Rate	Amount
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (per hour)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-18-1			
Asphalt Engineering Technician (hourly)	5	44.00	220.00
Nuclear Density Test - Asphalt (each test)	3	22.00	66.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-18-2			
Extraction & Gradation, Percent Asphalt (each)	1	225.00	225.00
Theoretical Maximum Specific Gravity of Mixtures (each test)	1	60.00	60.00
Lab Density (each test)	1	65.00	65.00
Report No. 01-14-19203-19-1			
Asphalt Engineering Technician (hourly)	6	44.00	264.00
Coring Rig (each)	1	75.00	75.00
Asphalt Cores (each core)	6	60.00	360.00
Asphalt Core Density (each specimen)	6	40.00	240.00
Vehicle Trip Charge (per trip)	2	37.00	74.00
Test Report (each)	1	30.00	30.00

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Due on receipt	10/31/2015	Sioux Rd. Paving and Drainage Improv.

Description	Qty	Rate	Amount
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-20-1			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Atterberg Limits (each test)	3	61.00	183.00
Sieve Analysis (each)	1	55.00	55.00
Standard Proctor (each test)	3	175.00	525.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-21-1			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	2	22.00	44.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (per hour)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-24-1			
Soil Engineering Technician (hourly)	2.5	41.00	102.50

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<b>Terms</b>	<b>Due Date</b>	<b>MEG Project</b>
Due on receipt	10/31/2015	Sioux Rd. Paving and Drainage Improv.

Description	Qty	Rate	Amount
Atterberg Limits (each test)	1	61.00	61.00
Standard Proctor (each)	1	175.00	175.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-25-1			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	3	22.00	66.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-26-1			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	4	22.00	88.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00

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<b>Terms</b>	<b>Due Date</b>	<b>MEG Project</b>
Due on receipt	10/31/2015	Sioux Rd. Paving and Drainage Improv.

Description	Qty	Rate	Amount
Report No. 01-14-19203-27-1			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Atterberg Limits (each test)	1	61.00	61.00
Standard Proctor (each)	1	175.00	175.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (per hour)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-27-2			
Soil Engr. Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	4	22.00	88.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-28-2			
Extraction & Gradation, Percent Asphalt (each)	1	225.00	225.00
Theoretical Maximum Specific Gravity of Mixtures (each test)	1	60.00	60.00
Lab Density (each test)	1	65.00	65.00
Report No. 01-14-19203-29-1			
Asphalt Engineering Technician (hourly)	4	44.00	176.00

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<b>Terms</b>	<b>Due Date</b>	<b>MEG Project</b>
Due on receipt	10/31/2015	Sioux Rd. Paving and Drainage Improv.

Description	Qty	Rate	Amount
Coring Rig (each)	1	75.00	75.00
Asphalt Cores (each core)	4	60.00	240.00
Asphalt Core Density (each specimen)	4	40.00	160.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical/Administrative (per hour)		40.00	40.00
<b>Report No. 01-14-19203-30-1</b>			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	2	22.00	44.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
<b>Report No. 01-14-19203-32-1</b>			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	2	22.00	44.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00

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Due on receipt	10/31/2015	Sioux Rd. Paving and Drainage Improv.

Description	Qty	Rate	Amount
Report No. 01-14-19203-33-1			
Soil Engineering Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	3	22.00	66.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (per hour)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-34			
Soil Engineering Technician (hourly)	3	41.00	123.00
Atterberg Limits (each test)	2	61.00	122.00
Standard Proctor (each)	2	175.00	350.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (per hour)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-35-1,2			
Soil Engr. Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	3	22.00	66.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50

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(956) 383-8522	(956) 383-0295

<b>Payments/Credits</b>
<b>Balance Due</b>

Make all checks payable to Millennium Engineers Group, Inc.  
 Any questions regarding this invoice please contact our Accounts Receivables Department at  
 (956) 383-8522.



# Invoice

Date	Invoice #
10/31/2015	419203-1115

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

<b>Bill To</b>
Hidalgo Co. Precinct No. 1 Mr. Raul Lozano 1902 Joe Stephens Ave. Suite 101 Weslaco, Texas 78596

<b>Terms</b>	<b>Due Date</b>	<b>MEG Project</b>
Due on receipt	10/31/2015	Sioux Rd. Paving and Drainage Improv.

Description	Qty	Rate	Amount
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00
Report No. 01-14-19203-36-1			
Soil Engr. Technician (hourly)	2.5	41.00	102.50
Nuclear Density Test - Soils (each test)	3	22.00	66.00
Vehicle Trip Charge (per trip)	1	37.00	37.00
Test Report (each)	1	30.00	30.00
Project Engineer (hourly)	0.5	105.00	52.50
Project Management (hourly)	0.25	67.00	16.75
Clerical (hourly)	1	40.00	40.00

Innovative. Experienced. Professional.	<b>Total</b>	\$16,432.00
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<b>Phone #</b>	<b>Fax #</b>
(956) 383-8522	(956) 383-0295

<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	<b>\$16,432.00</b>

Make all checks payable to Millennium Engineers Group, Inc.  
 Any questions regarding this invoice please contact our Accounts Receivables Department at  
 (956) 383-8522.



## Humberto Palma

---

**From:** Jose Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Monday, March 02, 2015 3:55 PM  
**To:** Mellinnium  
**Cc:** jose.alvarez@co.hidalgo.tx.us; Mellinnium; raul.sesin@hcdd1.org; areanna.yzaguirre@co.hidalgo.tx.us; jose@2gsllc.com; Humberto Garcia 2GS Llc; nora.cavazos@hchd.org  
**Subject:** Sioux Rd Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 03/03/2015 Tuesday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:30 AM

Type of Service Requested: Proctor Sample pickup of Lime Treated Sub-Base on Sioux Rd. from Sta. 0+00 to about Sta. 05+00.

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-  
-

Note: Testing Time has already been coordinated with H. Palma .

Thank You

Jesse Alvarez  
Construction Inspector  
County of Hidalgo Engineering Projects Office  
301 East State St.  
Pharr, Texas 78577  
956-292-7000 Ext. 2029  
956-533-3992 mobile  
[Jose.alvarez@co.hidalgo.tx.us](mailto:Jose.alvarez@co.hidalgo.tx.us)

Sent from my Samsung Galaxy S5  
T-Mobile 4G LTE Device

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
 Improv. (Tower Rd.-Val Verde Rd)  
 Client: Hidalgo CO. PCT 1  
 Po. # 713933

MEG Report Number: 01-14-19203-6-1  
 Service Date: March 5, 2015  
 Reported Date: March 6, 2015

**GENERAL INFORMATION**

Area Tested: Roadway  
 Material Description: Dark Brown Sandy Clay  
 Required % of Proctor: 95 Percent  
 Required Moisture Range: -2 to +3  
 Required Depth: 6 Inches

**MOISTURE DENSITY RELATIONSHIP**

Soil I.D.: N/A  
 Material Type: Subgrade  
 Optimum Dry Density(pcf): 115.1  
 Optimum Moisture(%): 13.8

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Rd. STA 6+00 on Center Line	14.4 % Pass	113.0 pcf	98.2 % Pass	6 (In.)
2	Sioux Rd. STA 9+00 4' South of Center Line	15.6 % Pass	115.3 pcf	100+ % Pass	6 (In.)

Comment: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.

**MILLENNIUM ENGINEERS GROUP, INC.**  
 TBPE FIRM No. F-3913  
  
 Raul Palma, Senior Materials Engineer

**Humberto Palma**

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Thursday, March 05, 2015 9:20 AM  
**To:** Mellinnium  
**Cc:** Mellinnium; Raul Sesin; Areanna E. Yzaguirre; Nora D Cavazos; jose@2gsllc.com; Humberto Garcia 2GS Llc  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Morning Martha,

Please see below for testing request,

Date of Service Requested: 03/05/2015 Thursday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 03:30 PM

Type of Service Requested: Sub-grade Densities on Sioux Rd. from Sta. 05+00 to about Sta. 10+00.

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Note: Testing Time has already been coordinated with H. Palma .

Please note that Testing will be performed by Technician if Weather permitting, If it is Raining, Gauge will not be able to function properly.....

**Thank You**

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-7-1  
Service Date: March 6, 2015  
Reported Date: March 9, 2015

**GENERAL INFORMATION**

Area Tested: Roadway  
Material Description: Salvage Base with Lime  
Required % of Proctor: 98 Percent  
Required Moisture Range: -2 to +3  
Required Depth: 4 Inches


**MOISTURE DENSITY RELATIONSHIP**

Soil I.D.: N/A  
Material Type: Flexible Base  
Optimum Dry Density(pcf): 128.1  
Optimum Moisture(%): 9.3

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Rd. STA 1+00 on Center Line	13.3 % Fail	113.4 pcf	88.5 % Fail	4 (In.)
2	Sioux Rd. STA 4+00 8' South of Center Line	13.3 % Fail	113.5 pcf	88.6 % Fail	4 (In.)
3	Sioux Rd. STA 7+00 7' North of Center Line	13.9 % Fail	110.3 pcf	86.1 % Fail	4 (In.)

Comments: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.  
Re-testing will be required.

**MILLENNIUM ENGINEERS GROUP, INC.**  
TBPE FIRM No. F-3913  
  
Raul Palma, Senior Materials Engineer

## Humberto Palma

---

**From:** Jose Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Thursday, March 05, 2015 11:54 AM  
**To:** Mellinnium  
**Cc:** jose.alvarez@co.hidalgo.tx.us; Mellinnium; raul.sesin@hcdd1.org; Areanna E. Yzaguirre; nora.cavazos@hchd.org; jose@2gslc.com; Humberto Garcia 2GS Llc  
**Subject:** Sioux Rd Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 03/06/2015 Friday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 03:00 PM

Type of Service Requested: Compaction Densities for Lime Treated Sub-Base on Sioux Rd. from Sta. 0+00 to about Sta. 10+00.

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Note: Testing Time has already been coordinated with M. Tapia .

Thank You

Jesse Alvarez  
Construction Inspector  
County of Hidalgo Engineering Projects Office  
301 East State St.  
Pharr, Texas 78577  
956-292-7000 Ext. 2029  
956-533-3992 mobile  
[jose.alvarez@co.hidalgo.tx.us](mailto:jose.alvarez@co.hidalgo.tx.us)

Sent from my Samsung Galaxy S5  
T-Mobile 4G LTE Device







## Martha Tapia

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Tuesday, March 24, 2015 4:54 PM  
**To:** Mellinnium  
**Cc:** Mellinnium; Raul Sesin; Areanna E. Yzaguirre; Humberto Garcia 2GS Llc; jose@2gslc.com; Nora D Cavazos; Oscar Gonzales  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 03/25/2015 Wednesday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 03:30 PM

Type of Service Requested: Lime Treated Sub-Base Proctor Pick Up on Sioux Rd. from West Side of Tower Rd. to City of Alamo Limits

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-

Note: Testing Time has already been coordinated with H.Palma .

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933


MEG Report Number: 01-14-19203-9-1  
Service Date: March 30, 2015  
Reported Date: March 31, 2015

GENERAL INFORMATION		MOISTURE DENSITY RELATIONSHIP	
Area Tested:	Roadway	Soil I.D.:	N/A
Material Description:	Salvage Base	Material Type:	Flexible Base
Required % of Proctor:	98 Percent	Optimum Dry Density(pcf):	112.4
Required Moisture Range:	-2 to +3	Optimum Moisture(%):	15.1
Required Depth:	6 Inches		

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Rd. STA 18+50 at Center Line	13.1 % Pass	112.7 pcf	100+ % Pass	6 (In.)
2	Sioux Rd. STA 14+50 5' North of Center Line	11.3 %	110.5 pcf	98.3 % Pass	6 (In.)
3	Sioux Rd. STA 10+50 5' South of Center Line	13.1 % Pass	113.7 pcf	100+ % Pass	6 (In.)
4	Sioux Rd. STA 6+50 at Center Line	13.8 % Pass	112.4 pcf	100.0 % Pass	6 (In.)
5	Sioux Rd. STA 2+50 6' North of Center Line	13.1 % Pass	110.6 pcf	98.4 % Pass	6 (In.)

Comments: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.  
Moisture Content on Test No. 2 (11.3) was approved by Jesse.

  
**MILLENNIUM ENGINEERS GROUP, INC.**  
TBPE FIRM No. F-3913  
Raul Palma, Senior Materials Engineer

## Humberto Palma

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Friday, March 27, 2015 9:48 AM  
**To:** Mellinnium  
**Cc:** Mellinnium; Areanna E. Yzaguirre; Raul Sesin; Nora D Cavazos; jose@2gsllc.com; Humberto Garcia 2GS Llc  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Morning Martha,

Please see below for testing request,

Date of Service Requested: 03/30/2015 Monday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 01:30 PM

Type of Service Requested: Lime Treated Sub-Base Compaction Densities on Sioux Rd. from West Side of Tower Rd. to City of Alamo Limits

-

-

Note: Testing Time has already been coordinated with H.Palma .

**Thank You**

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

**ASPHALTIC CONCRETE PAVEMENT  
ROLLING PATTERN FIELD TESTING REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)

MEG Report Number: 01-14-19203-10-1

Client: Hidalgo CO. PCT 1  
Po. # 713933

Service Date: April 2, 2015

Reported Date: April 3, 2015

**GENERAL INFORMATION**

Rolling Pattern Location:	Roadway	Material Producer:	Capa - Penitas
Target Maximum Density:	152	Material Type:	D

**SUMMARY OF ASPHALT ROLLING PATTERN**

Pattern Number	Test Location	Peak Density Patterns	
1	Roadway 900' West from Tower Road 3' North of Centerline at Sioux Rd.	1	Pass w/ vibratory double steel wheel roller
		2	Passes w/ non-vibratory steel wheel roller
		4	Passes w/ pneumatic roller
2	Roadway 950' West from Tower Road 7' North of Centerline at Sioux Rd.	1	Pass w/ vibratory double steel wheel roller
		2	Passes w/ non-vibratory steel wheel roller
		4	Passes w/ pneumatic roller
3	Roadway 1,000' West from Tower Road 4' North of Centerline at Sioux Rd.	1	Pass w/ vibratory double steel wheel roller
		2	Passes w/ non-vibratory steel wheel roller
		4	Passes w/ pneumatic roller

Equipment utilized: A steel-wheeled vibratory roller was used for the initial and intermediate compaction of the asphalt mat. Further compaction of the asphalt surface was achieved by the use of pneumatic roller after the initial rolling operation.

Comment: A rolling pattern was established using a Thin Layer Nuclear Density Gauge.

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

Raul Palma, Senior Materials Engineer

# ASPHALTIC CONCRETE PAVEMENT LABORATORY TESTING REPORT



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-10-2  
Service Date: April 2, 2015  
Reported Date: April 3, 2015

## GENERAL INFORMATION

Sample Location: Sioux Rd.  
950' West of Tower Rd.      Material Producer: CAPA - Penitas  
Material Type: D

## SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (Tex-200-F)

Sieve Size	Cummulative Passing (%)	Type D /Fine Surface Requirements (%)
1/2"	100.0	NA - NA
3/8"	95.0	NA - NA
No. 4	61.6	NA - NA
No. 8	37.4	NA - NA
No. 10	34.9	NA - NA
No. 30	25.3	NA - NA
No. 40	23.8	NA - NA
No. 50	22.1	NA - NA
No. 80	15.3	NA - NA
No. 200	5.3	NA - NA

## THEORETICAL MAXIMUM SPECIFIC GRAVITY OF BITUMINOUS MIXTURES (Tex-227-F)

Rice Specific Gravity (Gr): 2.443

## DETERMINING DENSITY OF COMPACTED BITUMINOUS MIXTURES (Tex-207-F)

Bulk Specific Gravity: 2.323      Lab Molded Density: 95.1 percent      Air Voids: 4.9 percent

## DETERMINING ASPHALT CONTENT (Tex-236-F) (IGNITION METHOD)

Asphalt Content: 4.9 percent

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

  
Raul Palma, Senior Materials Engineer

## **Humberto Palma**

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Wednesday, April 01, 2015 8:41 AM  
**To:** Martha Tapia  
**Cc:** Mellinnium; Areanna E. Yzaguirre; Raul Sesin; jose@2gsllc.com; Humberto Garcia 2GS Llc; Nora D Cavazos  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Morning Martha,

Please see below for testing request,

Date of Service Requested: 04/02/2015 Thursday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:00 AM

Type of Service Requested: Establish Rolling Patterns and Asphalt Sample Pickup for 2 " HMAC Type D on Sioux Rd. from West Side of Tower Rd. to City of Alamo Limits

-  
-

Note: Testing Time has already been coordinated with H.Palma .

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-11-1  
Service Date: April 9, 2015  
Reported Date: April 10, 2015

**GENERAL INFORMATION**

Area Tested: Roadway  
Material Description: Brown Sandy Clay  
Required % of Proctor: 95 Percent  
Required Moisture Range: -2 to +3  
Required Depth: 6 Inches

**MOISTURE DENSITY RELATIONSHIP**

Soil I.D.: N/A  
Material Type: Subgrade  
Optimum Dry Density(pcf): 115.1  
Optimum Moisture(%): 13.8

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Rd. STA 10+50 Center Line	9.1 % Pass	115.8 pcf	100+ % Pass	6 (In.)
2	Sioux Rd. STA 14+50 5' North from Center Line	10.4 % Pass	119.8 pcf	100+ % Pass	6 (In.)
3	Sioux Rd. STA 18+00 3' South from Center Line	10.0 % Pass	120.3 pcf	100+ % Pass	6 (In.)

Comments: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.  
Moisture Content Percent on Density Test No. 1, 2, 3 Approved by Hidalgo County Inspector.

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

Raul Palma, Senior Materials Engineer

## Humberto Palma

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Wednesday, April 08, 2015 8:53 AM  
**To:** Martha Tapia  
**Cc:** Mellinnium; Areanna E. Yzaguirre; Raul Sesin; nora cavazos; jose@2gsllc.com; Humberto Garcia 2GS Llc  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 04/09/2015 Thursday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:00AM

Type of Service Requested: Sub-Grade Densities ( 6" ) East of Tower Road on Sioux Road from Sta. 10+00 to Sta. 20+00

-  
-  
-

Note: Testing Time has already been coordinated with H.Palma

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**



**Humberto Palma**

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Thursday, April 09, 2015 4:41 PM  
**To:** Martha Tapia  
**Cc:** Mellinnium; Raul Sesin; Areanna E. Yzaguirre; nora cavazos; jose@2gsllc.com; Humberto Garcia 2GS Llc  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 04/10/2015 Friday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:00AM

Type of Service Requested: Caliche Base Sample Proctor Pick Up

-  
-  
-

Note: Testing Time has already been coordinated with H.Palma

**Thank You**

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
 Improv. (Tower Rd.-Val Verde Rd)  
 Client: Hidalgo CO. PCT 1  
 Po. # 713933

MEG Report Number: 01-14-19203-13-1  
 Service Date: April 13, 2015  
 Reported Date: April 16, 2015

GENERAL INFORMATION		MOISTURE DENSITY RELATIONSHIP	
Area Tested:	Roadway	Soil I.D.:	N/A
Material Description:	Salvage Base with Lime	Material Type:	Sub Base
Required % of Proctor:	98 Percent	Optimum Dry Density(pcf):	119.3
Required Moisture Range:	-2 to +3	Optimum Moisture(%):	11.2
Required Depth:	4 Inches	Lift Tested:	1st lift

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Rd. (Re-Test) STA 1+00 on Center Line	12.1 % Pass	120.8 pcf	100+ % Pass	3 3/4 (In.)
2	Sioux Rd. (Re-Test) STA 4+00 8' South of Center Line	12.2 % Pass	121.8 pcf	100+ % Pass	4 (In.)
3	Sioux Rd. (Re-Test) STA 7+00 7' North of Center Line	12.6 % Pass	117.0 pcf	98.1 % Pass	3 3/4 (In.)
4	Sioux Rd. STA 13+00 6' South of Center Line	13.4 % Pass	118.7 pcf	99.5 % Pass	3 3/4 (In.)
5	Sioux Rd. STA 16+25 4' North of Center Line	11.2 % Pass	119.5 pcf	100+ % Pass	4 (In.)
6	Sioux Rd. STA 19+00 6' South of Center Line	13.4 % Pass	119.1 pcf	99.8 % Pass	3 3/4 (In.)

Comments: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.  
Test No. 1, 2 & 3 is a Re-Test of No. 1, 2, & 3 of Report No. 01-14-19203-7-1.

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

Raul Palma, Senior Materials Engineer

## Humberto Palma

---

**From:** Jose Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Monday, April 13, 2015 3:22 PM  
**To:** Jose Alvarez; Martha Tapia  
**Cc:** jose.alvarez@co.hidalgo.tx.us; Mellinnium; Raul Sesin; Areanna E. Yzaguirre; nora cavazos; jose@2gsllc.com; Humberto Garcia 2GS Llc  
**Subject:** RE: Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 04/13/2015 Monday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 03:30PM

Type of Service Requested: Lime Treated Sub Base Densities ( 4" ) East of Tower Road on Sioux Road from Sta. 10+00 to Sta. 20+00

-  
-  
Note: Testing Time has already been coordinated with H.Palma

Thank You

Jesse Alvarez  
Construction Inspector  
County of Hidalgo Engineering Projects Office  
301 East State St.  
Pharr, Texas 78577  
956-292-7000 Ext. 2029  
956-533-3992 mobile  
[Jose.alvarez@co.hidalgo.tx.us](mailto:Jose.alvarez@co.hidalgo.tx.us)

Sent from my Samsung Galaxy S5  
T-Mobile 4G LTE Device

----- Original message -----

**From:** Jose Alvarez <[jose.alvarez@co.hidalgo.tx.us](mailto:jose.alvarez@co.hidalgo.tx.us)>  
**Date:** 04/13/2015 11:00 AM (GMT-06:00)  
**To:** Jesse Alvarez <[jose.alvarez@co.hidalgo.tx.us](mailto:jose.alvarez@co.hidalgo.tx.us)>, Martha Tapia <[mtapia@megengineers.com](mailto:mtapia@megengineers.com)>  
**Cc:** [jose.alvarez@co.hidalgo.tx.us](mailto:jose.alvarez@co.hidalgo.tx.us), Mellinnium <[hpalma@megengineers.com](mailto:hpalma@megengineers.com)>, Raul Sesin

**FLEXIBLE BASE MATERIAL  
LABORATORY TESTING REPORT**



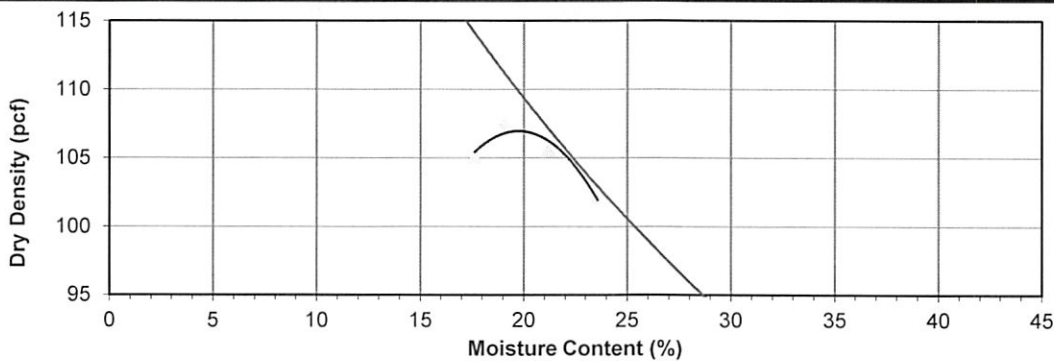
Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-14-1  
Service Date: April 17, 2015  
Reported Date: April 23, 2015

**GENERAL INFORMATION**

Material Type: Flexible Base Soil I.D.: 2354  
Material Description: Lime Treated Reddish Caliche Sample Location: On-Site Sample of Sioux Rd. STA 16+50, 12+80

**MOISTURE DENSITY RELATIONSHIP (ASTM D698)**



Maximum Dry Density  
**107.0 pcf**  
Optimum Moisture  
**19.8 %**

**PARTICLE SIZE ANALYSIS (TEX-110-E)**

Sieve Size	Individual Percent Retained, %	Cummulative Percent Retained, %	Spec. Limits	
			Lower	Upper

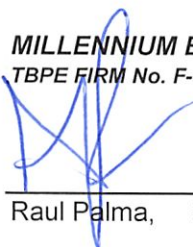
**TEXAS WET-BALL MILL (TEX-116-E)**

Texas Ball-Mill Value	N/A
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**PLASTICITY INDEX (TEX-106-E)**

LL:	39	LL Spec.:	NA
PL:	27	PL Spec.:	NA
PI:	12	PI Spec.:	NA

\*Specification limits on cummlative percent retained.

**MILLENNIUM ENGINEERS GROUP, INC.**  
TBPE FIRM No. F-3913  
  
Raul Palma, Senior Materials Engineer



## **Martha Tapia**

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Wednesday, April 15, 2015 4:28 PM  
**To:** Martha Tapia  
**Cc:** Mellinnium; Areanna E. Yzaguirre; Raul Sesin; nora cavazos; Jose Saenz; Humberto Garcia  
**Subject:** 2GS Llc  
Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 04/17/2015 Friday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 01:30PM

Type of Service Requested: Lime Treated Caliche (New) Base Proctor Sample Pick Up ( 6" ) East of Tower Road on Sioux Road from Sta. 00+00 to Sta. 20+00

Note : Time has already been coordinated with M. Tapia

**Thank You**

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

**ASPHALTIC CONCRETE PAVEMENT  
ROLLING PATTERN FIELD TESTING REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-15-1  
Service Date: April 23, 2015  
Reported Date: April 24, 2015

**GENERAL INFORMATION**

Rolling Pattern Location:	Roadway	Material Producer:	Capa - Penitas
Target Maximum Density:	152	Material Type:	D

**SUMMARY OF ASPHALT ROLLING PATTERN**

Pattern Number	Test Location	Peak Density Patterns
1	Roadway	2 Pass w/ non vibratory double steel wheel roller
	STA 16+00	1 Pass w/ vibratory double steel wheel roller
	2' South of Centerline at Sioux Rd.	6 Passes w/ ingram
2	Roadway	2 Pass w/ non vibratory double steel wheel roller
	STA 16+75	1 Pass w/ vibratory double steel wheel roller
	5' South from Centerline at Sioux	6 Passes w/ ingram
3	Roadway	2 Pass w/ non vibratory double steel wheel roller
	STA 17+25	1 Pass w/ vibratory double steel wheel roller
	7' South from Centerline at Sioux	6 Passes w/ ingram

Equipment utilized: A steel-wheeled vibratory roller was used for the initial and intermediate compaction of the asphalt mat. Further compaction of the asphalt surface was achieved by the use of pneumatic roller after the initial rolling operation.

Comment: A rolling pattern was established using a Thin Layer Nuclear Density Gauge.

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

Raul Palma, Senior Materials Engineer

**Humberto Palma**

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Thursday, April 23, 2015 8:08 AM  
**To:** Martha Tapia  
**Cc:** Mellinnium; Areanna E. Yzaguirre; Raul Sesin; Nora Cavazos; Jose Saenz; Humberto Garcia  
**Subject:** 2GS Llc  
Sioux Road Paving and Drainage Improvements

Good Morning Martha,

Please see below for testing request,

Date of Service Requested: 04/23/2015 Thursday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:00 AM

Type of Service Requested: Establish Rolling Patterns and Asphalt Sample Pickup for 2 " HMAC Type D on Sioux Rd. from West Side of Tower Rd. to City of Alamo Limits

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Note: Testing Time has already been coordinated with H.Palma .

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

# ASPHALTIC CONCRETE PAVEMENT LABORATORY TESTING REPORT



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-15-2  
Service Date: April 23, 2015  
Reported Date: May 15, 2015

## GENERAL INFORMATION

Sample Location: Sioux Rd., STA 16+75,  
5' South of Center Line

Material Producer: CAPA - Penitas  
Material Type: D

## SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (Tex-200-F)

Sieve Size	Cummulative Passing (%)	Type D /Fine Surface Requirements (%)
1/2"	100.0	NA - NA
3/8"	94.7	NA - NA
No. 4	65.3	NA - NA
No. 8	45.9	NA - NA
No. 10	42.8	NA - NA
No. 30	29.2	NA - NA
No. 40	26.9	NA - NA
No. 50	24.5	NA - NA
No. 80	18.6	NA - NA
No. 200	6.6	NA - NA

## THEORETICAL MAXIMUM SPECIFIC GRAVITY OF BITUMINOUS MIXTURES (Tex-227-F)

Rice Specific Gravity (Gr): 2.412

## DETERMINING DENSITY OF COMPACTED BITUMINOUS MIXTURES (Tex-207-F)

Bulk Specific Gravity: 2.342    Lab Molded Density: 97.1 percent    Air Voids: 2.9 percent

## DETERMINING ASPHALT CONTENT (Tex-236-F) (IGNITION METHOD)

Asphalt Content: 5.7 percent

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

  
Raul Palma, Senior Materials Engineer

**Humberto Palma**

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Thursday, April 23, 2015 8:08 AM  
**To:** Martha Tapia  
**Cc:** Mellinnium; Areanna E. Yzaguirre; Raul Sesin; Nora Cavazos; Jose Saenz; Humberto Garcia  
**Subject:** 2GS Llc  
Sioux Road Paving and Drainage Improvements

Good Morning Martha,

Please see below for testing request,

Date of Service Requested: 04/23/2015 Thursday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:00 AM

Type of Service Requested: Establish Rolling Patterns and Asphalt Sample Pickup for 2 " HMAC Type D on Sioux Rd. from West Side of Tower Rd. to City of Alamo Limits

-  
-  
-  
Note: Testing Time has already been coordinated with H.Palma .

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
 Improv. (Tower Rd.-Val Verde Rd)  
 Client: Hidalgo CO. PCT 1  
 Po. # 713933

MEG Report Number: 01-14-19203-16-1  
 Service Date: April 23, 2015  
 Reported Date: April 24, 2015

**GENERAL INFORMATION**

Area Tested: Roadway  
 Material Description: Lime Treated Tan Caliche  
 Required % of Proctor: 98 Percent  
 Required Moisture Range: -2 to +3  
 Required Depth: 6 Inches

**MOISTURE DENSITY RELATIONSHIP**

Soil I.D.: N/A  
 Material Type: Flexible Base  
 Optimum Dry Density(pcf): 107.0  
 Optimum Moisture(%): 19.8

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Rd. STA 2+00 8' South of Centerline	11.7 % Fail	122.2 pcf	100+ % Pass	6 (In.)

Comments: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.  
Re-testing will be required.

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

Raul Palma, Senior Materials Engineer

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
 Improv. (Tower Rd.-Val Verde Rd)  
 Client: Hidalgo CO. PCT 1  
 Po. # 713933

MEG Report Number: 01-14-19203-16-2  
 Service Date: April 23, 2015  
 Reported Date: April 24, 2015

**GENERAL INFORMATION**

Area Tested: Roadway  
 Material Description: Lime Treated Tan Caliche  
 Required % of Proctor: 98 Percent  
 Required Moisture Range: -2 to +3  
 Required Depth: 6 Inches

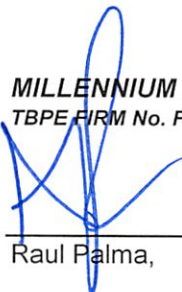
**MOISTURE DENSITY RELATIONSHIP**

Soil I.D.: N/A  
 Material Type: Flexible Base  
 Optimum Dry Density(pcf): 108.1  
 Optimum Moisture(%): 18.7

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Rd. STA 5+00 5' South of Centerline	15.1 %	113.9 pcf	100+ % Pass	6 (In.)
2	Sioux Rd. STA 9+00 8' North of Centerline	16.1 %	113.0 pcf	100+ % Pass	6 (In.)
3	Sioux Rd. STA 13+00 at Centerline	16.2 %	115.6 pcf	100+ % Pass	6 (In.)
4	Sioux Rd. STA 17+00 9' North of Center Line	16.7 % Pass	111.8 pcf	100+ % Pass	6 (In.)

Comments: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.  
Moisture Content on Test No. 1,2, and 3 approved by County Inspector.

**MILLENNIUM ENGINEERS GROUP, INC.**  
 TBPE FIRM No. F-3913  
  
 Raul Palma, Senior Materials Engineer

## Humberto Palma

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Wednesday, April 22, 2015 3:53 PM  
**To:** Mellinnium  
**Cc:** Mellinnium; Raul Sesin; Areanna E. Yzaguirre; Nora Cavazos; Jose Saenz; Humberto Garcia  
**Subject:** 2GS Llc  
Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 04/23/2015 Thursday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 03:30PM

Type of Service Requested: Lime Treated 6" Caliche (New) Base Compaction Densities East of Tower Road on Sioux Road from Sta. 00+00 to Sta. 20+00

Note : Time has already been coordinated with H. Palma

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

**ASPHALTIC CONCRETE PAVEMENT CORES  
FIELD TESTING REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)

Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-17-1

Service Date: April 24, 2015

Reported Date: May 15, 2015

**GENERAL INFORMATION**

Asphalt Coring Locations: Roadway      Material Producer: CAPA - Penitas  
Material Type: D

**SUMMARY OF ASPHALTIC PAVEMENT CORES**

Core Number	Test Location	Core Thickness	Core Density
1	Roadway Sioux Rd., 650' W. from Tower Rd., 3' South from Center Line	2 1/2 Inches	92.9 Percent
2	Roadway Sioux Rd., 850' E. from West End, 5' North from Center Line	2 1/2 Inches	92.7 Percent

Comment: The Core Results are the Average of two Cores per Location.

**MILLENNIUM ENGINEERS GROUP, INC.**

TBPE FIRM No. F-3913

Raul Palma, Senior Materials Engineer

## Humberto Palma

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Thursday, April 23, 2015 8:26 AM  
**To:** Martha Tapia  
**Cc:** Mellinnium; Areanna E. Yzaguirre; Raul Sesin; Nora Cavazos; Jose Saenz; Humberto Garcia  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Morning Martha,

Please see below for testing request,

Date of Service Requested: 04/24/2015 Friday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:00 AM

Type of Service Requested: Asphalt Cores for 2 " HMAC Type D  
on Sioux Rd. from West Side of Tower Rd. to City of Alamo Limits

-  
-  
-

Note: Testing Time has already been coordinated with H.Palma

**Thank You**

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

**ASPHALTIC CONCRETE PAVEMENT  
ROLLING PATTERN FIELD TESTING REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-18-1  
Service Date: May 6, 2015  
Reported Date: May 7, 2015

**GENERAL INFORMATION**

Rolling Pattern Location:	Roadway	Material Producer:	Capa - Penitas
Target Maximum Density:	152	Material Type:	D

**SUMMARY OF ASPHALT ROLLING PATTERN**

Pattern Number	Test Location	Peak Density Patterns
1	Roadway	2 Pass w/ non vibratory double steel wheel roller
	Sioux Road	2 Pass w/ vibratory double steel wheel roller
	300' East of Tower Rd.	1 Passes w/ non vibratory double steel wheel roller
	2' North of Center Line	4 Passes w/ pneumatic roller
2	Roadway	2 Pass w/ non vibratory double steel wheel roller
	Sioux Road	2 Pass w/ vibratory double steel wheel roller
	400' East of Tower Rd.	1 Passes w/ non vibratory double steel wheel roller
	3' North of Center Line	4 Passes w/ pneumatic roller
3	Roadway	2 Pass w/ non vibratory double steel wheel roller
	Sioux Road	2 Pass w/ vibratory double steel wheel roller
	550' East of Tower Rd.	1 Passes w/ non vibratory double steel wheel roller
	5' North of Center Line	4 Passes w/ pneumatic roller

Equipment utilized: A steel-wheeled vibratory roller was used for the initial and intermediate compaction of the asphalt mat. Further compaction of the asphalt surface was achieved by the use of pneumatic roller after the initial rolling operation.

Comment: A rolling pattern was established using a Thin Layer Nuclear Density Gauge.

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

Raul Palma, Senior Materials Engineer

**Martha Tapia**

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Tuesday, May 05, 2015 8:27 AM  
**To:** Martha Tapia  
**Cc:** Mellinnium; Raul Sesin; Areanna E. Yzaguirre; Jose Saenz; Humberto Garcia 2GS Llc; Nora Cavazos  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Morning Martha,

Please see below for testing request,

Date of Service Requested: 05/06/2015 Wednesday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:30AM

Type of Service Requested: Establish Rolling Patterns and Asphalt Sample Pick up for 2" HMAC Type D , East of Tower Road From Sta. 0+00  
to about Sta. 19+00.

-  
-  
-  
Note: Testing Time has already been coordinated with H.Palma

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

# ASPHALTIC CONCRETE PAVEMENT LABORATORY TESTING REPORT



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-18-2  
Service Date: May 6, 2015  
Reported Date: May 15, 2015

## GENERAL INFORMATION

Sample Location: Sioux Rd., 400' E. of Tower Rd.,  
3' North of Center Line  
Material Producer: CAPA - Penitas  
Material Type: D

## SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (Tex-200-F)

Sieve Size	Cummulative Passing (%)	Type D /Fine Surface Requirements (%)
1/2"	100.0	NA - NA
3/8"	95.7	NA - NA
No. 4	67.9	NA - NA
No. 8	45.1	NA - NA
No. 10	41.6	NA - NA
No. 30	26.5	NA - NA
No. 40	24.1	NA - NA
No. 50	22.0	NA - NA
No. 80	15.7	NA - NA
No. 200	6.2	NA - NA

## THEORETICAL MAXIMUM SPECIFIC GRAVITY OF BITUMINOUS MIXTURES (Tex-227-F)

Rice Specific Gravity (Gr): 2.423

## DETERMINING DENSITY OF COMPACTED BITUMINOUS MIXTURES (Tex-207-F)

Bulk Specific Gravity: 2.358    Lab Molded Density: 97.3 percent    Air Voids: 2.7 percent

## DETERMINING ASPHALT CONTENT (Tex-236-F) (IGNITION METHOD)

Asphalt Content: 5.7 percent

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

  
Raul Palma, Senior Materials Engineer

**Humberto Palma**

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Tuesday, May 05, 2015 8:27 AM  
**To:** Martha Tapia  
**Cc:** Mellinnium; Raul Segin; Areanna E. Yzaguirre; Jose Saenz; Humberto Garcia 2GS Llc; Nora Cavazos  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Morning Martha,

Please see below for testing request,

Date of Service Requested: 05/06/2015 Wednesday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:30AM

Type of Service Requested: Establish Rolling Patterns and Asphalt Sample Pick up for 2" HMAc Type D , East of Tower Road From Sta. 0+00  
to about Sta. 19+00.

-  
-  
-  
Note: Testing Time has already been coordinated with H.Palma

**Thank You**

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

**ASPHALTIC CONCRETE PAVEMENT CORES  
FIELD TESTING REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)

Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-19-1

Service Date: May 7, 2015

Reported Date: May 15, 2015

**GENERAL INFORMATION**

Asphalt Coring Locations: Roadway      Material Producer: CAPA - Penitas  
Material Type: D

**SUMMARY OF ASPHALTIC PAVEMENT CORES**

Core Number	Test Location	Core Thickness	Core Density
1	Roadway Sioux Rd., STA 10+00 5' North of Center Line	2 3/8 Inches	94.5 Percent
2	Roadway Sioux Rd., STA 5+00 5' South of Center Line	2 5/8 Inches	95.2 Percent
3	Roadway Sioux Rd., STA 15+00 5' South of Center Line	2 1/4 Inches	96.0 Percent

Comment: The Core Results are the Average of two Cores per Location.

**MILLENNIUM ENGINEERS GROUP, INC.**

TBPE FIRM No. F-3913

  
Raul Palma, Senior Materials Engineer

## Humberto Palma

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Thursday, May 07, 2015 8:17 AM  
**To:** Martha Tapia  
**Cc:** Mellinnium; Raul Sesin; Areanna E. Yzaguirre; Nora Cavazos; Humberto Garcia 2GS Llc; Jose Saenz  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Morning Martha,

Please see below for testing request,

Date of Service Requested: 05/07/2015 Thursday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 01:30PM

Type of Service Requested: Asphalt Cores for 2" HMAC Type D , East of Tower Road From Sta. 0+00 to about Sta. 19+00.

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Note: Testing Time has already been coordinated with H.Palma

**Thank You**

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

**SOILS MATERIAL  
LABORATORY TESTING REPORT**



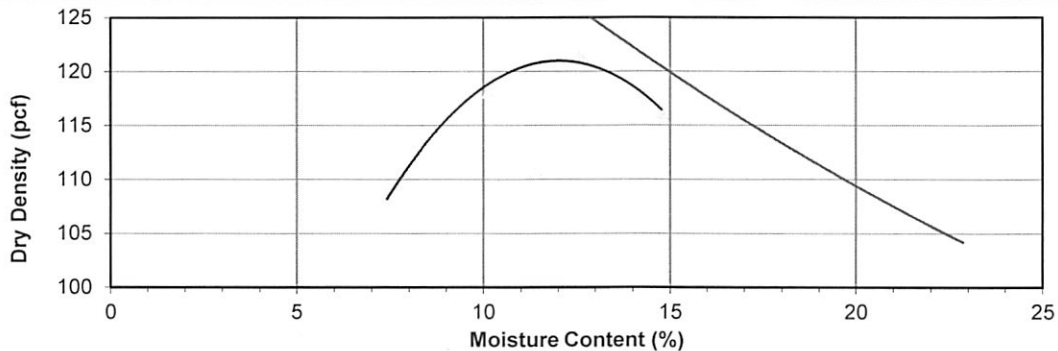
Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-20-1  
Service Date: May 8, 2015  
Reported Date: May 14, 2015

**GENERAL INFORMATION**

Material Type: Subgrade Soil I.D.: 2388  
Sample Location: Sioux Rd., 32+00  
4' South of Center Line

**MOISTURE DENSITY RELATIONSHIP (ASTM D 698)**



Maximum Dry Density  
**120.9 pcf**  
Optimum Moisture  
**11.9 %**

**MATERIAL FINER THAN NO. 200 (ASTM D 1140)**

Sieve Size	Cummulative Percent Retained, %	Cummulative Percent Finer, %	Spec. Limits	
			Lower	Upper
No. 4	7.1	92.9	NA	
No. 10	8.5	91.5	NA	
No. 40	9.4	90.6	NA	
No. 200	68.9	31.1	NA	

\*Specification limits on cummulative percent retained.

**SOIL CLASSIFICATION (ASTM D 2487)**

Material Description	USCS
Dark Brown Sandy Clay w/ Traces of Course Aggregates	SC

**PLASTICITY INDEX (ASTM D 4318)**

LL: 24	LL Spec.: NA
PL: 15	PL Spec.: NA
PI: 9	PI Spec.: NA

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

Raul Palma, Senior Materials Engineer

**FLEXIBLE BASE MATERIAL  
LABORATORY TESTING REPORT**



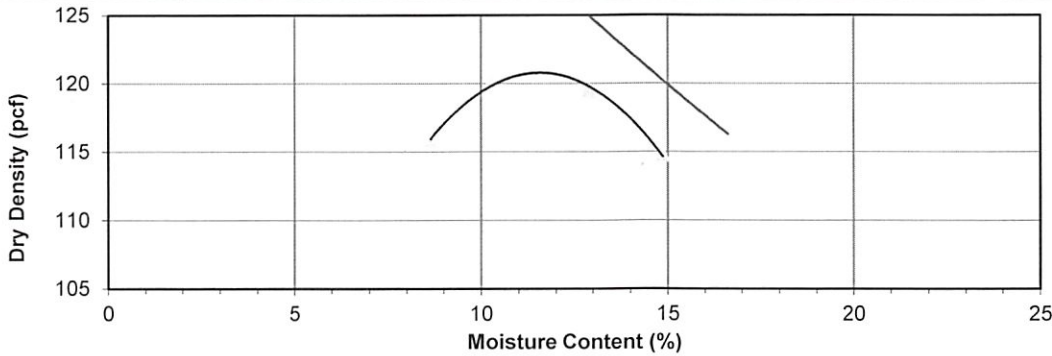
Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-15-19203-20-2  
Service Date: May 8, 2015  
Reported Date: May 14, 2015

**GENERAL INFORMATION**

Material Type: Sub Base Soil I.D.: 2389  
Material Description: Lime Treated Dark Brown Sandy Clay Sample Location: Sioux Rd., 32+00,  
w/ Traces of Salvage and Tan Caliche 4' South of Center Line

**MOISTURE DENSITY RELATIONSHIP (ASTM D698)**



Maximum Dry Density  
**120.9 pcf**  
Optimum Moisture  
**11.6 %**

**PARTICLE SIZE ANALYSIS (TEX-110-E)**

Sieve Size	Individual Percent	Cummulative Percent	Spec. Limits	
	Retained, %	Retained, %	Lower	Upper

**TEXAS WET-BALL MILL (TEX-116-E)**

Texas Ball-Mill Value	N/A
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**PLASTICITY INDEX (TEX-106-E)**

LL:	29	LL Spec.:	NA
PL:	22	PL Spec.:	NA
PI:	7	PI Spec.:	NA

\*Specification limits on cummulative percent retained.

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

  
Raul Palma, Senior Materials Engineer

**FLEXIBLE BASE MATERIAL  
LABORATORY TESTING REPORT**



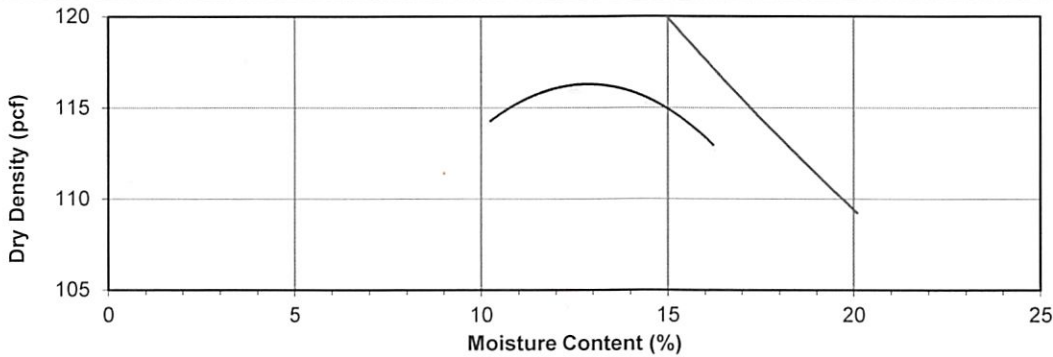
Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-20-3  
Service Date: May 8, 2015  
Reported Date: May 14, 2015

**GENERAL INFORMATION**

Material Type: Sub Base Soil I.D.: 2390  
Material Description: Lime Treated Dark Brown Sandy Clay Sample Location: Sioux Rd., 38+00,  
w/ Traces of Salvage and Caliche 5' South of Center Line

**MOISTURE DENSITY RELATIONSHIP (ASTM D698)**



Maximum Dry Density  
**116.3 pcf**  
Optimum Moisture  
**12.9 %**

**PARTICLE SIZE ANALYSIS (TEX-110-E)**

Sieve Size	Individual Percent	Cummulative Percent	Spec. Limits	
	Retained, %	Retained, %	Lower	Upper

**TEXAS WET-BALL MILL (TEX-116-E)**

Texas Ball-Mill Value	N/A
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**PLASTICITY INDEX (TEX-106-E)**

LL:	<b>30</b>	LL Spec.:	NA
PL:	<b>22</b>	PL Spec.:	NA
PI:	<b>8</b>	PI Spec.:	NA

\*Specification limits on cummulative percent retained.

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

*Raul Palma*  
Raul Palma, Senior Materials Engineer

**Humberto Palma**

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Friday, May 08, 2015 12:10 PM  
**To:** Mellinnium  
**Cc:** Mellinnium; Raul Sesin; Eliza Yzaguirre  
**Subject:** Sioux Rd Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 05/08/15 Friday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 01:30PM

Type of Service Requested: For Roadway Section, proctor sample pickup on Lime Treated Sub Base From Sta. 30+00 to Sta. 40+00.

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Note: Testing Time has already been coordinated with H.Palma

Thank You

Construction Inspector  
County of Hidalgo Engineering Projects Office  
301 E. State St.  
Pharr, Texas 78577  
Office : 956-702-7000 ext 2029  
Mobile:956-533-3992

Sent from my iPhone

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-21-1  
Service Date: May 11, 2015  
Reported Date: May 13, 2015

**GENERAL INFORMATION**

Area Tested: Roadway  
Material Description: Dark Brown Sandy Clay  
Required % of Proctor: 95 Percent  
Required Moisture Range: -2 to +3  
Required Depth: 6 Inches

**MOISTURE DENSITY RELATIONSHIP**

Soil I.D.: N/A  
Material Type: Subgrade  
Optimum Dry Density(pcf): 120.9  
Optimum Moisture(%): 11.9

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Rd. STA 31+00 at Centerline	10.2 % Pass	117.2 pcf	96.9 % Pass	6 (In.)
2	Sioux Rd. STA 34+00 3' North of Centerline	11.7 % Pass	115.2 pcf	95.3 % Pass	6 (In.)

Comment: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.

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

  
Raul Palma, Senior Materials Engineer

## Humberto Palma

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Friday, May 08, 2015 4:13 PM  
**To:** Mellinnium  
**Cc:** Mellinnium; Raul Sesin; Eliza Yzaguirre; Nora Cavazos; Humberto Garcia 2GS Llc; Jose Saenz  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 05/11/2015 Monday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:00AM

Type of Service Requested: Road Way Section : 6" Sub-grade Densities From Sta. 30+00 to about Sta. 35+00.

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Note: Testing Time has already been coordinated with H.Palma

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**301 East State St.**  
**Pharr, Texas 78577**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo Precinct No. 2**

**SOILS MATERIAL  
LABORATORY TESTING REPORT**



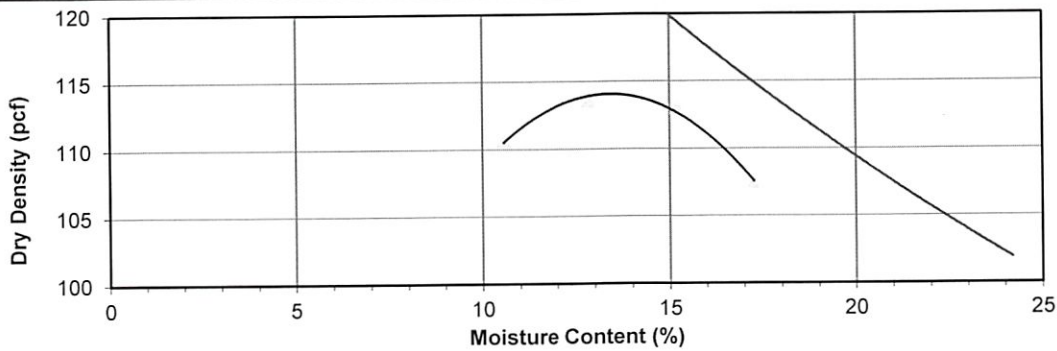
Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-24-1  
Service Date: July 25, 2015  
Reported Date: August 4, 2015

**GENERAL INFORMATION**

Material Type: Subgrade Soil I.D.: 2513  
Sample Location: Stockpile  
North - East and South Side

**MOISTURE DENSITY RELATIONSHIP (ASTM D 698)**



Maximum Dry Density  
**114.0 pcf**  
Optimum Moisture  
**13.5 %**

**MATERIAL FINER THAN NO. 200 (ASTM D 1140)**

Sieve Size	Cummulative Percent Retained, %	Cummulative Percent Finer, %	Spec. Limits Lower	Spec. Limits Upper

\*Specification limits on cummulative percent retained.

**SOIL CLASSIFICATION (ASTM D 2487)**

Material Description	USCS
Brown Sandy Clay	CL

**PLASTICITY INDEX (ASTM D 4318)**

LL: 38	LL Spec.: NA
PL: 16	PL Spec.: NA
PI: 22	PI Spec.: NA

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

Raul Palma, Senior Materials Engineer

## Martha Tapia

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Friday, July 24, 2015 1:58 PM  
**To:** Mellinnium  
**Cc:** Raul Sesin; Eliza Yzaguirre; Nora Cavazos; bgarcia@2gsllc.com; Jose Saenz  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 07/25/2015

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:00AM

Type of Service Requested: Road Way Section : Sub-Grade Proctor Sample Pick Up for 6" Sub-grade From Sta. 79+45 to about Sta. 74+50, Near Val-Verde Road.

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-

Note: Testing Time has already been coordinated with H.Palma

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**902 Doolittle Rd.**  
**Edinburg, Texas 78542**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo**

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-25-1  
Service Date: July 30, 2015  
Reported Date: July 31, 2015

GENERAL INFORMATION		MOISTURE DENSITY RELATIONSHIP	
Area Tested:	Roadway	Soil I.D.:	N/A
Material Description:	Brown Sandy Clay	Material Type:	Subgrade
Required % of Proctor:	95 Percent	Optimum Dry Density(pcf):	114.0
Required Moisture Range:	-2 to +3	Optimum Moisture(%):	13.5
Required Depth:	6 Inches		

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Rd. STA 78+50 at Centerline	12.1 % Pass	118.5 pcf	100+ % Pass	6 (In.)
2	Sioux Rd. STA 77+00 10' South of Centerline	13.8 % Pass	115.4 pcf	100+ % Pass	6 (In.)
3	Sioux Rd. STA 75+00 3' North of Center Line	13.7 % Pass	116.9 pcf	100+ % Pass	6 (In.)

Comment: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.

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

  
\_\_\_\_\_  
Raul Palma, Senior Materials Engineer

## Martha Tapia

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Wednesday, July 29, 2015 4:54 PM  
**To:** Mellinnium  
**Cc:** Raul Sesin; Eliza Yzaguirre; Nora Cavazos; bgarcia@2gsllc.com; Jose Saenz  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 07/30/2015 Thursday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 03:30PM

Type of Service Requested: Road Way Section : Sub-Grade Compaction Densities for 6" Sub-grade From Sta. 79+45 to about Sta. 74+50, Near Val-Verde Road.

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-

Note: Testing Time has already been coordinated with H.Palma

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**902 Doolittle Rd.**  
**Edinburg, Texas 78542**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo**

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
 Improv. (Tower Rd.-Val Verde Rd)  
 Client: Hidalgo CO. PCT 1  
 Po. # 713933

MEG Report Number: 01-14-19203-26-1  
 Service Date: August 11, 2015  
 Reported Date: August 12, 2015

GENERAL INFORMATION		MOISTURE DENSITY RELATIONSHIP	
Area Tested:	Roadway	Soil I.D.:	N/A
Material Description:	Brown Sandy Clay	Material Type:	Subgrade
Required % of Proctor:	95 Percent	Optimum Dry Density(pcf):	114.0
Required Moisture Range:	-2 to +3	Optimum Moisture(%):	13.5
Required Depth:	6 Inches		

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Rd. STA 73+50 4' North of Center Line	12.6 % Pass	115.3 pcf	100+ % Pass	6 (In.)
2	Sioux Rd. STA 71+00 5' South of Center Line	15.1 % Pass	113.4 pcf	99.5 % Pass	6 (In.)
3	Sioux Rd. STA 69+25 at Center Line	11.9 % Pass	117.8 pcf	100+ % Pass	6 (In.)
4	Sioux Rd. STA 65+00 10' North of Center Line	11.7 % Pass	113.9 pcf	99.9 % Pass	6 (In.)

Comment: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.

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

Raul Palma, Senior Materials Engineer

## Martha Tapia

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Tuesday, August 11, 2015 2:01 PM  
**To:** Mellinnium  
**Cc:** Mellinnium; Raul Sesin; Eliza Yzaguirre; Nora Cavazos; bgarcia@2gsllc.com; Jose Saenz  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 08/11/2015 Tuesday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 02:30PM

Type of Service Requested: Road Way Section : Sub-Grade Compaction Densities for 6" Sub-grade From Sta. 74+50 to about Sta. 65+50, Near Val-Verde Road.

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Note: Testing Time has already been coordinated with Juan

Thank You

Jesse Alvarez  
Construction Inspector  
County of Hidalgo Engineering Projects Office  
902 Doolittle Rd.  
Edinburg , Texas 78542  
Office : 956-702-7000 ext 2029  
Mobile:956-533-3992

Sent from my iPhone

# FLEXIBLE BASE MATERIAL LABORATORY TESTING REPORT



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)

Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-27-1

Service Date: September 1, 2015

Reported Date: September 11, 2015

## GENERAL INFORMATION

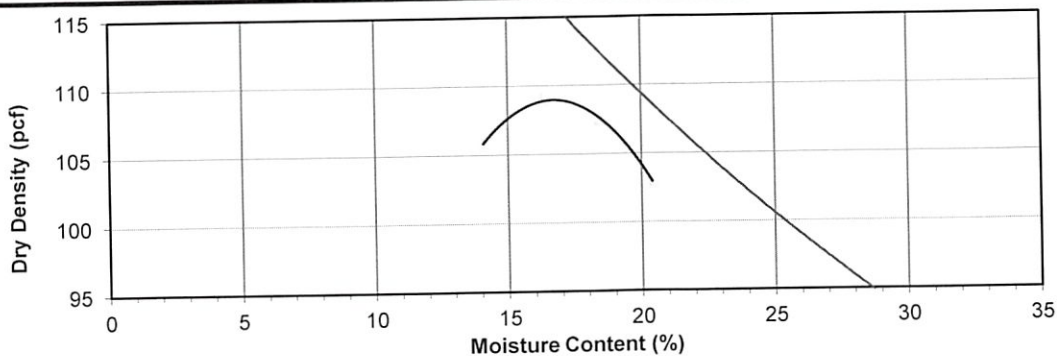
Material Type: Flexible Base

Soil I.D.: 2578

Material Description: Lime Treated Caliche

Sample Location: 100' to 200' West  
of Valverde

## MOISTURE DENSITY RELATIONSHIP (ASTM D698)



Maximum Dry  
Density  
**109.0 pcf**

Optimum  
Moisture  
**16.8 %**

## PARTICLE SIZE ANALYSIS (TEX-110-E)

Sieve Size	Individual	Cummulative	Spec.	
	Percent Retained, %	Percent Retained, %	Lower	Upper

## TEXAS WET-BALL MILL (TEX-116-E)

Texas Ball-Mill Value      N/A

## PLASTICITY INDEX (TEX-106-E)

LL: 39	LL Spec.: NA
PL: 26	PL Spec.: NA
PI: 13	PI Spec.: NA

\*Specification limits on cummulative percent retained.

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

Raul Palma, Senior Materials Engineer

## Martha Tapia

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Tuesday, September 01, 2015 10:35 AM  
**To:** Mellinnium  
**Cc:** Raul Sesin; Eliza Yzaguirre; Nora Cavazos; Erika Zamora; Beto Garcia; Jose Saenz; Mellinnium  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 09/01/2015 Tuesday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 11:00 AM

Type of Service Requested: Road Way Section : 6" Caliche Base Lime Treated Proctor Sample pick-up From Sta. 79+45 to about Sta. 66+50, Near Val-Verde Road.

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-

Note: Testing Time has already been coordinated with H.Palma

Thank You

Jesse Alvarez  
Construction Inspector  
County of Hidalgo Engineering Projects Office  
902 Doolittle Rd.  
Edinburg , Texas 78542  
Office : 956-702-7000 ext 2029  
Mobile:956-533-3992

Sent from my iPhone



## NUCLEAR MOISTURE DENSITY FIELD REPORT

Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-27-2  
Service Date: September 3, 2015  
Reported Date: September 4, 2015

### GENERAL INFORMATION

Area Tested: Sioux Road  
Material Description: Lime Treated Caliche  
Required % of Proctor: 98 Percent  
Required Moisture Range: -2 to +3  
Required Depth: 6 Inches

### MOISTURE DENSITY RELATIONSHIP

Soil I.D.: N/A  
Material Type: Flexibel Base  
Optimum Dry Density(pcf): 109.0  
Optimum Moisture(%): 16.8

### FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Rd. STA 78+00 at Center Line	17.0 % Pass	106.9 pcf	98.1 % Pass	6 (In.)
2	Sioux Rd. STA 74+00 5' North of Center Line	17.3 % Pass	107.0 pcf	98.2 % Pass	6 (In.)
3	Sioux Rd. STA 70+00 2' South of Center Line	14.9 % Pass	107.1 pcf	98.3 % Pass	6 (In.)
4	Sioux Rd. STA 66+00 4' South of Center Line	15.7 % Pass	108.1 pcf	99.2 % Pass	6 (In.)

Comment: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.

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

Raul Palma, Senior Materials Engineer

## Martha Tapia

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Thursday, September 03, 2015 8:22 AM  
**To:** Mellinnium  
**Cc:** Raul Sesin; Eliza Yzaguirre; Nora Cavazos; Mellinnium; Beto Garcia; Jose Saenz  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 09/03/2015 Wednesday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 03:30 PM

Type of Service Requested: Road Way Section : Compaction Densities on 6" Lime Treated Caliche Base From Sta. 79+45 to about Sta. 66+50, Near Val-Verde Road.

-  
-

Note: Testing Time has already been coordinated with H.Palma

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**902 Doolittle Rd.**  
**Edinburg, Texas 78542**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo**

**ASPHALTIC CONCRETE PAVEMENT  
ROLLING PATTERN FIELD TESTING REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)

MEG Report Number: 01-14-19203-28-1  
Service Date: September 8, 2015  
Reported Date: September 9, 2015

Client: Hidalgo CO. PCT 1  
Po. # 713933

**GENERAL INFORMATION**

Rolling Pattern Location:	Roadway	Material Producer:	Capa - Penitas
Target Maximum Density:	150	Material Type:	D

**SUMMARY OF ASPHALT ROLLING PATTERN**

Pattern Number	Test Location	Peak Density Patterns
1	Roadway Sioux Road STA 74+25 2' South of Center Line	2 Pass w/ vibratory Bomag double steel wheel roller
		2 Pass w/ static Bomag double steel wheel roller
2	Roadway Sioux Road STA 73+25 6' South of Center Line	2 Pass w/ vibratory Bomag double steel wheel roller
		2 Pass w/ static Bomag double steel wheel roller
3	Roadway Sioux Road STA 72+75 8' South of Center Line	2 Pass w/ vibratory Bomag double steel wheel roller
		2 Pass w/ static Bomag double steel wheel roller

Equipment utilized: A steel-wheeled vibratory roller was used for the initial and intermediate compaction of the asphalt mat. Further compaction of the asphalt surface was achieved by the use of pneumatic roller after the initial rolling operation.

Comment: A rolling pattern was established using a Thin Layer Nuclear Density Gauge.

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

---

Raul Palma, Senior Materials Engineer

## Martha Tapia

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Friday, September 04, 2015 8:43 PM  
**To:** Mellinnium  
**Cc:** Raul Sesin; Eliza Yzaguirre; Nora Cavazos; Oscar Gonzales; Jose Saenz; Humberto (Beto) Garcia; Mellinnium  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 09/08/2015 Tuesday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:30 AM

Type of Service Requested: Road Way Section : Establish Rolling Patterns/Surface Densities on 1-1/2" HMAC to include Asphalt Sample pickup From Sta. 79+45 to about Sta. 66+50, Near Val-Verde Road.

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Note: Testing Time has already been coordinated with H.Palma

Thank You

Jesse Alvarez  
Construction Inspector  
County of Hidalgo Engineering Projects Office  
902 Doolittle Rd.  
Edinburg , Texas 78542  
Office : 956-702-7000 ext 2029  
Mobile:956-533-3992

Sent from my iPhone

# ASPHALTIC CONCRETE PAVEMENT LABORATORY TESTING REPORT



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)

MEG Report Number: 01-14-19203-28-2

Service Date: September 8, 2015

Client: Hidalgo CO. PCT 1  
Po. # 713933

Reported Date: September 22, 2015

## GENERAL INFORMATION

Sample Location: Sioux Rd., STA 73+25  
6' South of Center Line

Material Producer: CAPA - Penitas  
Material Type: D

## SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (Tex-200-F)

Sieve Size	Cummulative Passing (%)	Type D /Fine Surface Requirements (%)
1/2"	100.0	NA - NA
3/8"	94.2	NA - NA
No. 4	62.5	NA - NA
No. 8	40.9	NA - NA
No. 10	38.4	NA - NA
No. 30	26.1	NA - NA
No. 40	24.1	NA - NA
No. 50	22.1	NA - NA
No. 80	16.5	NA - NA
No. 200	6.0	NA - NA

## THEORETICAL MAXIMUM SPECIFIC GRAVITY OF BITUMINOUS MIXTURES (Tex-227-F)

Rice Specific Gravity (Gr): 2.432

## DETERMINING DENSITY OF COMPACTED BITUMINOUS MIXTURES (Tex-207-F)

Bulk Specific Gravity: 2.343      Lab Molded Density: 96.4 percent      Air Voids: 3.6 percent

## DETERMINING ASPHALT CONTENT (Tex-236-F) (IGNITION METHOD)

Asphalt Content: 5.1 percent

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

Raul Palma, Senior Materials Engineer

## Martha Tapia

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Friday, September 04, 2015 8:43 PM  
**To:** Mellinnium  
**Cc:** Raul Sesin; Eliza Yzaguirre; Nora Cavazos; Oscar Gonzales; Jose Saenz; Humberto (Beto) Garcia; Mellinnium  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 09/08/2015 Tuesday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:30 AM

Type of Service Requested: Road Way Section : Establish Rolling Patterns/Surface Densities on 1-1/2" HMAC to include Asphalt Sample pickup From Sta. 79+45 to about Sta. 66+50, Near Val-Verde Road.

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-  
-

Note: Testing Time has already been coordinated with H.Palma

Thank You

Jesse Alvarez  
Construction Inspector  
County of Hidalgo Engineering Projects Office  
902 Doolittle Rd.  
Edinburg , Texas 78542  
Office : 956-702-7000 ext 2029  
Mobile:956-533-3992

Sent from my iPhone

# ASPHALTIC CONCRETE PAVEMENT CORES FIELD TESTING REPORT



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)

Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-29-1

Service Date: September 9, 2015

Reported Date: September 22, 2015

## GENERAL INFORMATION

Asphalt Coring Locations: Roadway      Material Producer: CAPA - Penitas  
Material Type: D

## SUMMARY OF ASPHALTIC PAVEMENT CORES

Core Number	Test Location	Core Thickness	Core Density
1	Roadway Sioux Rd., STA 74+50 6' North of Center Line	2 1/2" Inches	95.0 Percent
2	Roadway Sioux Rd., STA 69+50 5' South of Center Line	2 1/4" Inches	92.7 Percent

Comment: The Core Results are the Average of two Cores per Location.

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

Raul Palma, Senior Materials Engineer

**Martha Tapia**

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Wednesday, September 09, 2015 8:23 AM  
**To:** Mellinnium  
**Cc:** Raul Sesin; Eliza Yzaguirre; Nora Cavazos; Mellinnium; Jose Saenz; Beto Garcia  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 09/09/2015 Wednesday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 09:00 AM

Type of Service Requested: Road Way Section : Asphalt Cores for 1-1/2 " HMAC Type D From Sta. 79+45 to about Sta. 65+70 , Near Val-Verde Road.

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Note: Testing Time has already been coordinated with H.Palma

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**902 Doolittle Rd.**  
**Edinburg, Texas 78542**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo**

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-30-1  
Service Date: September 10, 2015  
Reported Date: September 14, 2015

**GENERAL INFORMATION**

Area Tested: Roadway  
Material Description: Brown Sandy Clay  
Required % of Proctor: 95 Percent  
Required Moisture Range: -2 to +3  
Required Depth: 6 Inches

**MOISTURE DENSITY RELATIONSHIP**

Soil I.D.: N/A  
Material Type: Subgrade  
Optimum Dry Density(pcf): 114.0  
Optimum Moisture(%): 13.5

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Rd. STA 59+50 2' South of Center Line	11.7 % Pass	114.2 pcf	100+ % Pass	6 (In.)
2	Sioux Rd. STA 63+00 5' North of Center Line	12.2 % Pass	114.3 pcf	100+ % Pass	6 (In.)

Comment: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.

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

Raul Palma, Senior Materials Engineer

## Martha Tapia

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Thursday, September 10, 2015 10:25 AM  
**To:** Mellinnium  
**Cc:** Raul Sesin; Eliza Yzaguirre; Nora Cavazos; Jose Saenz; Beto Garcia; Mellinnium  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 09/10/2015 Thursday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 11:30 AM

Type of Service Requested: Road Way Section : Compaction Densities for 6" Sub-Grade From Sta. 60+70 to about Sta. 65+70 , Near Val-Verde Road.

-  
-  
-

Note: Testing Time has already been coordinated with H.Palma

Thank You

Jesse Alvarez  
Construction Inspector  
County of Hidalgo Engineering Projects Office  
902 Doolittle Rd.  
Edinburg , Texas 78542  
Office : 956-702-7000 ext 2029  
Mobile:956-533-3992

Sent from my iPhone

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-32-1  
Service Date: October 12, 2015  
Reported Date: October 13, 2015

**GENERAL INFORMATION**

Area Tested: Sioux Road - North Bound  
Material Description: Brown Sandy Clay  
Required % of Proctor: 95 Percent  
Required Moisture Range: -2 to +3  
Required Depth: 6 Inches

**MOISTURE DENSITY RELATIONSHIP**

Soil I.D.: NA  
Material Type: Subgrade  
Optimum Dry Density(pcf): 114.0  
Optimum Moisture(%): 13.5  
Lift Tested: Final lift

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Road STA 55+00 6' North of Center Line	11.9 % Pass	118.1 pcf	100+ % Pass	6 (In.)
2	Sioux Road STA 59+50 5' South of Center Line	12.1 % Pass	114.8 pcf	100+ % Pass	6 (In.)

Comment: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.

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

Raul Palma, Senior Materials Engineer

## Martha Tapia

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Monday, October 12, 2015 12:42 PM  
**To:** Mellinnium  
**Cc:** bgarcia@2gsllc.com; Mellinnium; Nora Cavazos  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 10/12/2015 Monday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 03:00PM

Type of Service Requested: Road Way Section : Compaction Densities for 6" Sub-Grade From Sta. 60+70 to about Sta. 55+70 , Near Border Road.

-

-

Note: Testing Time has already been coordinated with H.Palma

Thank You

Jesse Alvarez  
Construction Inspector  
County of Hidalgo Engineering Projects Office  
902 Doolittle Rd.  
Edinburg , Texas 78542  
Office : 956-702-7000 ext 2029  
Mobile:956-533-3992

Sent from my iPhone

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-33-1  
Service Date: October 16, 2015  
Reported Date: October 19, 2015

GENERAL INFORMATION		MOISTURE DENSITY RELATIONSHIP	
Area Tested:	Sioux Road	Soil I.D.:	NA
Material Description:	Brown Sandy Caliche with Lime	Material Type:	Flexible Base
Required % of Proctor:	98 Percent	Optimum Dry Density(pcf):	109.0
Required Moisture Range:	-2 to +3	Optimum Moisture(%):	16.8
Required Depth:	4 Inches	Lift Tested:	Final lift

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Road STA 56+00 4' South of Center Line	14.9 % Pass	112.1 pcf	100+ % Pass	4 (In.)
2	Sioux Road STA 61+00 6' North of Center Line	15.5 % Pass	113.5 pcf	100+ % Pass	4 (In.)
3	Sioux Road STA 63+50 7' South of Center Line	15.2 % Pass	113.6 pcf	100+ % Pass	4 (In.)

Comment: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.

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

Raul Palma, Senior Materials Engineer

**Martha Tapia**

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Wednesday, October 14, 2015 4:14 PM  
**To:** Mellinnium  
**Cc:** Raul Sesin; Eliza Yzaguirre; Mellinnium; Nora Cavazos; Beto Garcia; Jose Saenz  
**Subject:** Sioux Road Paving and Drainage Improvements

Good Afternoon Martha,

Please see below for testing request,

Date of Service Requested: 10/16/2015 Friday

Project Name/Location: Sioux Road Paving and Drainage Improvements

Time of Needed Services: 11:00 AM

Type of Service Requested: Road Way Section : Compaction Densities for 6" Lime Treated Caliche Base From Sta. 65+00 to about Sta. 55+00 , Near Border Road.

Note: Testing Time has already been coordinated with H.Palma

Thank You

*Jesse Alvarez*  
*Construction Inspector*  
*Hidalgo County Engineering Projects Office*  
*902 Doolittle Rd.*  
*Edinburg, Texas 78542*  
*956-292-7000 ext. 2029*  
*956-533-3992 Mobile*  
*jose.alvarez@co.hidalgo.tx.us*  
*County of Hidalgo*

**SOILS MATERIAL  
LABORATORY TESTING REPORT**



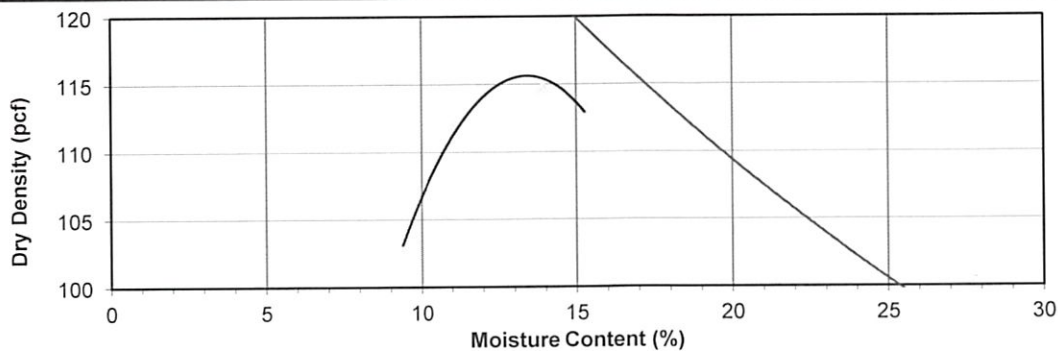
Project Name: Sioux Rd. Paving and Drainage  
 Improv. (Tower Rd.-Val Verde Rd)  
 Client: Hidalgo CO. PCT 1  
 Po. # 713933

MEG Report Number: 01-14-19203-34-1  
 Service Date: October 21, 2015  
 Reported Date: October 29, 2015

**GENERAL INFORMATION**

Material Type: Limed Subgrade Soil I.D.: NA  
 Sample Location: On-Site Sample at Border Rd.  
 50' - 150' South of Sioux Rd.

**MOISTURE DENSITY RELATIONSHIP (ASTM D 698)**



Maximum Dry Density  
**115.6 pcf**  
 Optimum Moisture  
**13.2 %**

**MATERIAL FINER THAN NO. 200 (ASTM D 1140)**

Sieve Size	Cummulative Percent Retained, %	Cummulative Percent Finer, %	Spec. Limits Lower	Spec. Limits Upper

**SOIL CLASSIFICATION (ASTM D 2487)**

Material Description	USCS
Dark Brown Sandy Clay with Gravel	NA

**PLASTICITY INDEX (ASTM D 4318)**

LL: 37	LL Spec.: NA
PL: 18	PL Spec.: NA
PI: 19	PI Spec.: NA

\*Specification limits on cummulative percent retained.

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

  
 Raul Palma, Senior Materials Engineer

**SOILS MATERIAL  
LABORATORY TESTING REPORT**



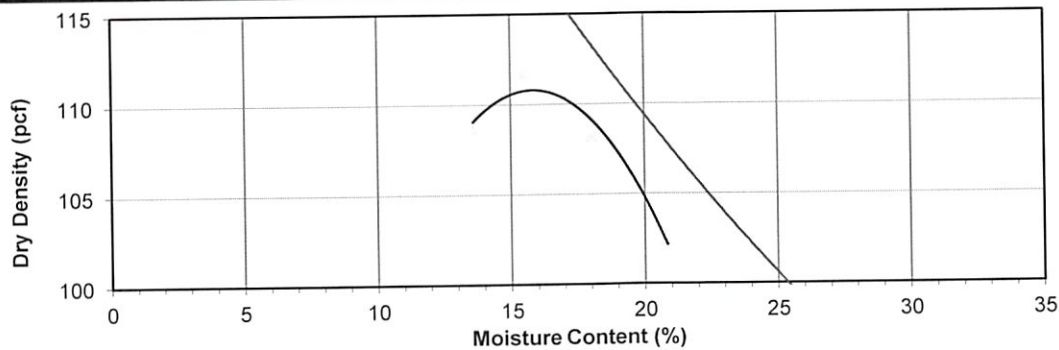
Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-34-2  
Service Date: October 21, 2015  
Reported Date: October 29, 2015

**GENERAL INFORMATION**

Material Type: Limed Subgrade Soil I.D.: NA  
Sample Location: Sioux Rd.  
150' - 200' West of Border Rd.

**MOISTURE DENSITY RELATIONSHIP (ASTM D 698)**



Maximum Dry Density  
**110.9 pcf**  
Optimum Moisture  
**16.0 %**

**MATERIAL FINER THAN NO. 200 (ASTM D 1140)**

Sieve Size	Cummulative Percent Retained, %	Cummulative Percent Finer, %	Spec. Limits	
			Lower	Upper

**SOIL CLASSIFICATION (ASTM D 2487)**

Material Description	USCS
Brown Sandy Clay with Gravel	NA

**PLASTICITY INDEX (ASTM D 4318)**

LL: 39	LL Spec.: NA
PL: 28	PL Spec.: NA
PI: 11	PI Spec.: NA

\*Specification limits on cummulative percent retained.

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

*Raul Palma*  
Raul Palma, Senior Materials Engineer

## Martha Tapia

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Wednesday, October 21, 2015 2:19 PM  
**To:** Mellinnium  
**Cc:** Raul Sesin; Eliza Yzaguirre; Nora Cavazos; Beto Garcia; Oscar Gonzales  
**Subject:** Re: Sioux Road Drainage Improvements , Tower Road to Valverde Road

Good Afternoon Martha,  
On Test Request from previous Email, Please  
Change Type of Service To "Lime Treated Subgrade Proctor Pick Up"  
Not Compaction Densities.....

Thank You

Jesse Alvarez  
Construction Inspector  
County of Hidalgo Engineering Projects Office  
902 Doolittle Rd.  
Edinburg , Texas 78542  
Office : 956-702-7000 ext 2029  
Mobile:956-533-3992

Sent from my iPhone

On Oct 21, 2015, at 8:28 AM, Jesse Alvarez <jose.alvarez@co.hidalgo.tx.us> wrote:

Good Morning Martha,

Please see below for testing request,

Date of Service Requested: 10/21/2015 Wednesday

Project Name/Location: Sioux Road Drainage Improvements.

Time of Needed Services: 01:30 PM

Type of Service Requested: Road Way Section : Compaction Densities on 6" Lime Treated Sub-Grade On Sioux Rd.From Sta. 55+00 to about Sta. 50+00 Also On Border Rd Section from Sta. 0+00 to Sta. 1+90.

Note: Testing Time has already been coordinated with H.Palma

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**902 Doolittle Rd.**  
**Edinburg, Texas 78542**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo**

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
 Improv. (Tower Rd.-Val Verde Rd)  
 Client: Hidalgo CO. PCT 1  
 Po. # 713933

MEG Report Number: 01-14-19203-35-1  
 Service Date: October 23, 2015  
 Reported Date: October 26, 2015

**GENERAL INFORMATION**

**MOISTURE DENSITY RELATIONSHIP**

Area Tested: Sioux Road  
 Material Description: Dark Brown Clay w/ Sand  
 Required % of Proctor: 95 Percent  
 Required Moisture Range: -2 to 3  
 Required Depth: 6 Inches

Soil I.D.: NA  
 Material Type: Limed Subgrade  
 Optimum Dry Density(pcf): 110.9  
 Optimum Moisture(%): 16.0

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Road STA 51+50 5' South of Center Line	18.4 %	106.6 pcf	96.1 %	6 (In.)
2	Sioux Road STA 54+00 5' North of Center Line	17.1 %	110.6 pcf	99.7 %	6 (In.)

Comment: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.

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

  
 Raul Palma, Senior Materials Engineer

**NUCLEAR MOISTURE DENSITY  
FIELD REPORT**



Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-14-19203-35-2  
Service Date: October 23, 2015  
Reported Date: October 26, 2015

**GENERAL INFORMATION**

Area Tested: Sioux Road  
Material Description: Dark Brown Clay w/ Sand  
Required % of Proctor: 95 Percent  
Required Moisture Range: -2 to 3  
Required Depth: 6 Inches

**MOISTURE DENSITY RELATIONSHIP**

Soil I.D.: NA  
Material Type: Limed Subgrade  
Optimum Dry Density(pcf): 115.6  
Optimum Moisture(%): 13.2

**FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)**

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Border Rd. STA 1+40 at Center Line	15.2 %	112.4 pcf	97.2 %	6 (In.)

Comment: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.

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

  
\_\_\_\_\_  
Raul Palma, Senior Materials Engineer

## Martha Tapia

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Friday, October 23, 2015 10:24 AM  
**To:** Mellinnium  
**Cc:** Raul Sesin; Eliza Yzaguirre; Nora Cavazos; bgarcia@2gslc.com; katia.garcia@co.hidalgo.tx.us; Mellinnium  
**Subject:** ioux Road Drainage Improvements.

Good Morning Martha,

Please see below for testing request,

Date of Service Requested: 10/23/2015 Friday

Project Name/Location: Sioux Road Drainage Improvements.

Time of Needed Services: 11:00 AM

Type of Service Requested: Road Way Section : Compaction Densities on 6" Lime Treated Sub-Grade On Sioux Rd.From Sta. 55+00 to about Sta. 50+00 and Border Road Sta. 01+85 To Sta. 0+00.

-  
-  
-  
Note: Testing Time has already been coordinated with H.Palma

Thank You

Jesse Alvarez  
Construction Inspector  
County of Hidalgo Engineering Projects Office  
902 Doolittle Rd.  
Edinburg , Texas 78542  
Office : 956-702-7000 ext 2029  
Mobile:956-533-3992

Sent from my iPhone



## NUCLEAR MOISTURE DENSITY FIELD REPORT

Project Name: Sioux Rd. Paving and Drainage  
Improv. (Tower Rd.-Val Verde Rd)  
Client: Hidalgo CO. PCT 1  
Po. # 713933

MEG Report Number: 01-15-19203-36-1  
Service Date: October 22, 2015  
Reported Date: October 23, 2015

### GENERAL INFORMATION

Area Tested: Sioux Road  
Material Description: Brown Sandy Clay  
Required % of Proctor: 95 Percent  
Required Moisture Range: -2 to 3  
Required Depth: 6 Inches

### MOISTURE DENSITY RELATIONSHIP

Soil I.D.: NA  
Material Type: Subgrade  
Optimum Dry Density(pcf): 114.0  
Optimum Moisture(%): 13.5  
Lift Tested: Final lift

### FIELD DENSITY TEST DATA (ASTM D 2922 / 3017)

Test Number	Test Location	Moisture Content	Dry Density	Percent Compaction	Depth Tested
1	Sioux Road STA 40+00 2' North of Center Line	12.0 % Pass	119.4 pcf	100+ % Pass	6 (In.)
2	Sioux Road STA 38+00 5' South of Center Line	14.2 % Pass	116.5 pcf	100+ % Pass	6 (In.)
3	Sioux Road STA 35+50 4' North of Center Line	12.5 % Pass	117.7 pcf	100+ % Pass	6 (In.)

Comment: Field testing done in general accordance with ASTM D 2922 and ASTM D3017.

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

  
Raul Palma, Senior Materials Engineer

**Humberto Palma**

---

**From:** Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]  
**Sent:** Thursday, October 22, 2015 8:16 AM  
**To:** Mellinnium  
**Cc:** Raul Sesein; Eliza Yzaguirre; Nora Cavazos; Katia Garcia; Oscar Gonzales; Mellinnium; Beto Garcia  
**Subject:** Sioux Road Drainage Improvements

Good Morning Martha,

Please see below for testing request,

Date of Service Requested: 10/22/2015 Thursday

Project Name/Location: Sioux Road Drainage Improvements.

Time of Needed Services: 03:00 PM

Type of Service Requested: Road Way Section : Compaction Densities on 6" Sub-Grade On Sioux Rd.From Sta. 30+00 to about Sta. 35+00

-  
-  
-  
Note: Testing Time has already been coordinated with H.Palma

Thank You

**Jesse Alvarez**  
**Construction Inspector**  
**Hidalgo County Engineering Projects Office**  
**902 Doolittle Rd.**  
**Edinburg, Texas 78542**  
**956-292-7000 ext. 2029**  
**956-533-3992 Mobile**  
**jose.alvarez@co.hidalgo.tx.us**  
**County of Hidalgo**

**HIDALGO COUNTY**  
**Professional Construction Material Testing Laboratory**  
**Services**  
**Agreement # C-13-243-08-27**

**WORK AUTHORIZATION NO. 3**

**THIS WORK AUTHORIZATION** is made pursuant to the terms and conditions of Section I.A. of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, **Millennium Engineers Group, Inc.**, professional Laboratory's of **Edinburg**, Texas, hereinafter called "**Laboratory**".

**PART 1. SCOPE OF WORK**

The purpose of this Work Authorization is for the **Laboratory** to provide

Construction Materials Engineering and Testing Services for the Sioux Road Paving and Drainage Improvements (Tower Road to Val Verde Road) project.

The scope of services to be provided by the **Owner** is identified in **EXHIBIT "A"** – *Scope of Services to be Provided by the Owner* attached hereto.

The scope of services to be provided by the **Engineer** is identified in **EXHIBIT "B"** – *Scope of Services to be Provided by the Laboratory* attached hereto.

**PART 2. ESTIMATED COST**

The estimated cost for services under this Work Authorization is **\$23,461.50**. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT "D"**.

**PART 3. PAYMENT**

Compensation and payment to the **Engineer** for the services established under this Work Authorization shall be made in accordance with **Article/Part/Section 3** of the Agreement.

**PART 4. FUNDING**

This Work Authorization No. **3** shall be funded through funding source:  
Account No. 4-1339-431-00-121-183-0-731  
Requisition Number 262245 (MUST BE INCLUDED AFTER CC APPROVAL)

**PART 5. PERIOD OF SERVICE**

This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate **upon completion of scopes of the work authorization.**

**PART 6. RESPONSIBILITIES AND OBLIGATIONS**

This Authorization does not waive the parties' responsibilities and obligations provided under the **Agreement**.

**PART 7. ACKNOWLEDGEMENT AND CONFIRMATION**

Acknowledgement and confirmation by **Hidalgo County Precinct No. 1**, Commissioner, A.C. Cuellar, Jr., as to content and detail of this **Work Authorization No. 3**

**HIDALGO COUNTY  
COMMISSIONER PRECINCT NO. 1:**

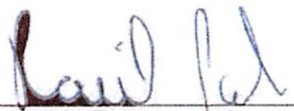
BY: 

**PART 8. ACCEPTANCE AND APPROVAL**

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on \_\_\_\_\_ as indicated below and effective as of \_\_\_\_ day of \_\_\_\_\_, 2014.


**THE LABORATORY:  
MILLENNIUM ENGINEERS GROUP, INC.**

**THE OWNER:  
HIDALGO COUNTY**

  
By: Raul Palma, President

  
By: Ramon Garcia, County Judge

**ATTEST:**

  
By: Arturo Guajardo, Jr., County Clerk

APPROVED BY  
COMMISSIONERS' COURT  
ON: 8/29/14

**LIST OF ATTACHMENTS**

- EXHIBIT "A" - Services to be Provided by the Owner
- EXHIBIT "B" - Services to be Provided by the Laboratory
- EXHIBIT "C" - Work Schedule
- EXHIBIT "D" - Cost Proposal



# Purchase Order COUNTY OF HIDALGO

PO# 713933

DATE: 08/29/14

PAGE NO: 1 OF 1

PO TYPE:

VENDOR: 284009

REQ: 00262245

CANCELLED: 08-26-14

PHONE: (956) 383-8522

FAX: (956) 383-0295

EMAIL:

SHIP TO: HIDALGO CO. PCT 1

1902 Joe Stephens Ave  
WESLACO TX 78596

MILLENNIUM ENGINEERS GROUP, INC.

P.O. BOX 4569

EDINBURG TX 78540-4569

CONTACT:

SITE: COMMISSIONER, PRECINCT 1

CONTRACT NO: C-13-243-08-27

**SPECIAL INSTRUCTIONS: RML9**

**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. Our 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-13-243-08-27 EXP. 8/26/14		
1.00	EACH	CC WORK AUTHORIZATION #3 FOR CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES FOR THE SIOUX ROAD PAVING AND DRAINAGE IMPROVEMENTS (TOWER ROAD TO VAL VERDE RD.) PROJECT.	23,461.50	23,461.50
		<b>TOTAL:</b>		23,461.50
		REPORT ROAD HAZARDS 1-866-HCR-SAFE OR 1-866-427-7233		
		***** For Hidalgo County use only		
		4-1303-431-00-121-110-0-731	23,461.50	

Authorized by: Martha L. Salazar, Jr.

**Zimbra****evangelina.garcia@co.hidalgo.tx.us**

---

**Re: Request AI - Invoice# 419203-1115 Millennium Engineers Group, Inc. PO# 713933**

---

**From :** Marcie Jackson  
<marcie.jackson@co.hidalgo.tx.us>

Wed, Nov 18, 2015 10:48 AM

**Subject :** Re: Request AI - Invoice# 419203-1115  
Millennium Engineers Group, Inc. PO# 713933**To :** Evangelina Garcia  
<evangelina.garcia@co.hidalgo.tx.us>**Cc :** Katia Garcia <katia.garcia@co.hidalgo.tx.us>

Vangie,

Yes I did verify the rates/charges.

Thank you,

Marcie Jackson  
Accounts Payable Clerk  
Hidalgo County Precinct No.1  
1902 Joe Stephens Ave. Suite 101  
Weslaco, Texas 78599  
Phone# (956)968-8733  
Fax# (956)973-7804

---

**From:** "Evangelina Garcia" <evangelina.garcia@co.hidalgo.tx.us>  
**To:** "Marcie Jackson" <marcie.jackson@co.hidalgo.tx.us>  
**Cc:** "Katia Garcia" <katia.garcia@co.hidalgo.tx.us>  
**Sent:** Wednesday, November 18, 2015 10:43:53 AM  
**Subject:** Re: Request AI - Invoice# 419203-1115 Millennium Engineers Group, Inc. PO# 713933

Marcie;

There's a reflected amount on the attached invoice that Millennium is billing so it will require to be placed on the agenda however, did you verify the rates/charges on the documentation to make sure everything is confirmed, nonetheless, I'll go ahead and prepare an agenda item for it.

Thank you;

Vangie Y. Garcia, Contract Manager  
Hidalgo County Purchasing Department  
2812 S. Business Hwy. 281  
Edinburg, Texas 78539  
Email: [evangelina.garcia@co.hidalgo.tx.us](mailto:evangelina.garcia@co.hidalgo.tx.us)  
Phone: 956-292-7000-Ext. 4856

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**From:** "Marcie Jackson" <[marcie.jackson@co.hidalgo.tx.us](mailto:marcie.jackson@co.hidalgo.tx.us)>  
**To:** "Evangelina Garcia" <[evangelina.garcia@co.hidalgo.tx.us](mailto:evangelina.garcia@co.hidalgo.tx.us)>  
**Cc:** "Katia Garcia" <[katia.garcia@co.hidalgo.tx.us](mailto:katia.garcia@co.hidalgo.tx.us)>  
**Sent:** Wednesday, November 18, 2015 9:42:01 AM  
**Subject:** Request AI - Invoice# 419203-1115 Millennium Engineers Group, Inc. PO# 713933

Vangie,

I am not sure if the above invoice requires Commissioner's Court approval, but if it does will you please place invoice #419203-1115 Millennium Engineers Group, Inc., on the next regularly scheduled County Commissioner's meeting for approval and payment. If you need additional information or have any questions, please call or email me.

Thank you,

Marcie Jackson  
Accounts Payable Clerk  
Hidalgo County Precinct No.1  
1902 Joe Stephens Ave. Suite 101  
Weslaco, Texas 78599  
Phone# (956)968-8733  
Fax# (956)973-7804