



PUBLIC WORKS

ROUTING FORM FOR TASK ORDERS – CITY MANAGER’S APPROVAL

1-22-14 E
PUE-10
14-0112

Project/Contract Number: P11770 CMO Log #: _____
 Document Title: S Andrews Ave & SE 17 Street Large Water Main Replacement - Task order 1A 4th Attached: _____
 Department: Public Works - Engineering 1 original

Purpose: Please provide a brief description of the document being routed and its purpose.
 The purpose of this Task Order is to pay for geotechnical services testing provided by PSI, Inc. at SE 17 Street Large Water Main.

FUNDING INFORMATION

CIP Funded Project: Yes No
 Amount Required by Task Order: \$1,667.50
 Index/Sub Object Code: P11770.454-6346
 Engineering Finance Approval Sign: [Signature] 3/10/15 [Signature] 3/20/15

APPROVAL ROUTING –PUBLIC WORKS

	Approved:	Disapproved:	Signature/Initials
Senior Project Manager	<input checked="" type="checkbox"/>	<input type="checkbox"/>	[Signature]
Pedram Zohrevand, Ph.D., P.E., Assistant City Engineer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	[Signature]
Jeffrey Benjamin, P.E., Construction Manager	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NA
Hardeep Anand, P.E., Public Works Director	<input checked="" type="checkbox"/>	<input type="checkbox"/>	H.A.

APPROVAL ROUTING –FINANCE DEPARTMENT

	Recommend Approval:	Disapproved:	Signature/Initials
Kirk W. Buffington, C.P.M., Finance Director	<input type="checkbox"/>	<input type="checkbox"/>	[Signature]

APPROVAL ROUTING – CITY ATTORNEY’S OFFICE

	Approved as to form:	Disapproved:	Signature/Initials
City Attorney	<input checked="" type="checkbox"/>	<input type="checkbox"/>	[Signature]

APPROVAL ROUTING – CITY MANAGER’S OFFICE

	Approved:	Disapproved:	Signature/Initials
Lee R. Feldman, ICMA-CM, City Manager	<input type="checkbox"/>	<input type="checkbox"/>	

CITY CLERK’S OFFICE Upon approval by the City Manager, please route this form along with Task Order to PW- Engineering, Kian Movafaghi (Ext. 7818).

PROFESSIONAL SERVICE INDUSTRIES, INC.

RESOLUTION

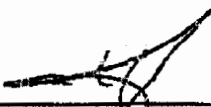
Pursuant to the authority given to Mark Weiland, Secretary, by Professional Service Industries, Inc. (the "Corporation") Board Resolution dated November 29, 2011, the following resolution was passed at a formal meeting in Oakbrook Terrace, Illinois on the below date:

BE IT RESOLVED Chris Andreoni, Branch Manager of the Corporation, in the normal course of his duties and responsibilities as assigned by the Corporation, is empowered to execute in the name of and on behalf of the Corporation contracts (including any related documentation or certifications included in the contract documents) for professional services with City of Fort Lauderdale, known as the "Organization"

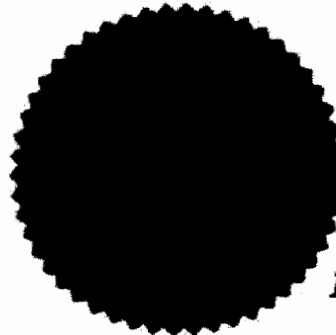
BE IT FURTHER RESOLVED, that the foregoing authority shall be and continue in full force and effect until revoked or modified by written notice. Said Organization is hereby authorized and directed to at all times rely upon the last notice received by it or any resolution as to the foregoing authority when such notice bears this Corporation's Seal and is signed by one purporting to be its Secretary.

AND BE IT FURTHER RESOLVED, that the Secretary of the Corporation is authorized to certify under the Corporate Seal of the Corporation, and said Organization is hereby authorized to rely upon such certification of the Secretary of the Corporation until it is formally advised of any changes therein by a subsequent certificate and under the Corporate Seal.

IN WITNESS WHEREOF, I have affixed my name as Secretary, and have caused the Corporate Seal of Professional Service Industries, Inc., to be hereto affixed, this 30th day of December, 2014



Mark Weiland
Secretary



PSI-14-649

Check List for Task Orders, Task Order Amendments, Proposals, Work Authorizations, and similar documents.

- The document title and Project or Task Order Number should be consistent with CAM (if an Agenda item) and all related exhibits or references.
- Full legal name of entity as registered with the State Division of Corp. "a (State) entity (if not FL) authorized to do business in the State of Florida.**
<http://www.sunbiz.org>
- Fort** Lauderdale should be spelled out. Do not accept "Ft." Lauderdale.
- Check that all **sub**consultants are listed as approved subs on the consultant's contract. If not, attach an approval letter by the City Engineer.
- Check that all **sub**consultants are registered with the State Division of Corp.
- Reference to the Master Agreement by name and date of agreement. *Exp. 1/6/14*
- A date line with the day and month to be filled in when approved by CCM or CMO if not a commission item.
- Contact Person/phone number
- Purpose/Preamble/Project Background/Task description
- Item # and \$ must agree with Scope of Services in Master Agreement and CAM (if applicable)
- Verify Compensation Terms & Rates agree with the Master Agreement.
- Math is checked.
- Time Frame for project completion - specifically stated (avoid use of "approximate")
- Break down of reimbursables and other costs.
- Entity signature page with entity name same as page 1. *- all on 1 page - ok?*
- Must be authorized to sign for the Entity. Prefer President/Vice President or Managing Member (LLC) or GP (LLP or Partnership) *Corp. Reso -*
- One Witness: Names printed under the signature
- Attested by the Secretary (Corporations)
- Notarized
- Corporate Seal
- City Signature Page
- Minimum of two original documents executed by entity.
- (CAO) Update ACA log and if a commission item, Clerk's log

TASK ORDER #: 12	
CONTRACTOR: PSI (PROFESSIONAL SERVICE INDUSTRIES, INC) 1901 S. MYERS RD, 4TH FL OAKBROOK TER, IL 60181 Phone: (954) 267-0965 Fax: (954) 267-0944	CONTRACT NUMBER: 636-11225 CONTRACT DESC: 2 YR CONTRACT FOR GEOTECHNICAL ENGINEERING & LABORATORY CONTRACT - P11895 CC AWARD: 1/22/14, PUR-2, CAM#14-0112 UNIT COST: \$200,000 CONTRACT CAP

TO: City of Fort Lauderdale 100 North Andrews Avenue Fort Lauderdale, FL 33301	CITY CONTACT: Jean Examond PHONE: (954)828-4507 FAX: (954)828-5074
--	---


PROJECT NAME: P11770- SE 17th St. Large Water Main PROJECT LOCATION: SE 17th St. Large Water Main	FUNDING SOURCE: P11770.454-6599 TASK ORDER DATE: 2/13/2015
--	---

SUMMARY OF WORK :
Provide geotechnical testing services at SE 17th St. Large Water Main for Project P11770. Testing services include, but not limited to, field density tests.

RATES INCLUDED IN CONTRACT					
ITEM #	ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
	SO, DENSITY-NUCLEAR (EA)	22	EACH	\$25.00	\$550.00
	SO, LBR (EA)	2	EACH	\$225.00	\$450.00
	ENGINEERING TECHNICIAN (HR)	10	HOUR	\$45.00	\$450.00
	ENGINEER, PROF/REG (HR)	1.5	HOUR	\$100.00	\$150.00
	SECRETARY/CLERICAL (HR)	1.5	HOUR	\$45.00	\$67.50
Total Bid Price Included in Contract:					\$1,667.50

Professional Service Industries

Contractor:

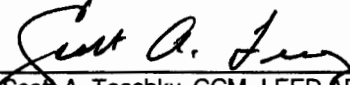
By:  Date: 2/18/15

Authorized Signature _____ Date: _____

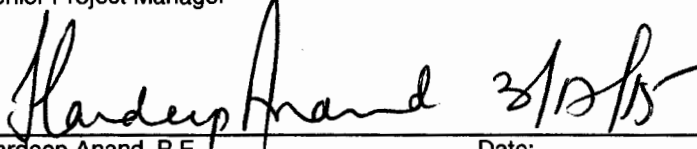
Chris Andreoni - Branch Manager
Print Name and Title

CITY SIGNATURES:

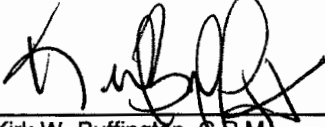
Task Order No.: 12
Contract No.: 636-11225
Project No.: P11770
Contractor: Professional Service Industries, Inc
\$ 1667.50

 3/13/15

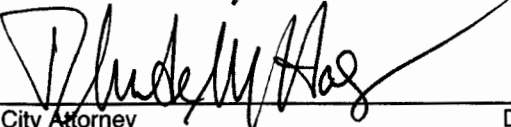
Scott A. Teschky, CCM, LEED AP BD+C Date:
Senior Project Manager

 3/12/15

Hardeep Anand, P.E., Date:
Director of Public Works

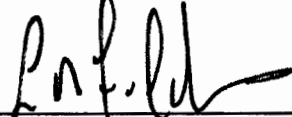
 3/30/15

Kirk W. Buffington, C.P.M. Date:
Director of Finance

 4.7.15

Rhodella Hoag Date:
City Attorney

CITY OF FORT LAUDERDALE, a Florida municipality:

By:  4/8/15

LEE R. FELDMAN, City Manager Date:

Professional Service Industries, Inc.

Contract No. 636-11225

Contract Term: 1/22/14 -1/21/16

W.O. No.	Amount Expended	Contract Amount	Remaining Allocation
1	\$ 21,115.00		
2	6,290.00		
T.O. No.			
3	3,242.50		
4	2,962.50		
5	4,980.00	Processed as an RA.	
6	375.00		
7	380.00		
8	12,520.00		
9	975.00		
10	335.00		
11	3,961.50		
12	1,667.50		
	\$ 58,804.00	\$ 200,000.00	\$ 141,196.00

Professional Service Industries, Inc.

Contract No. 636-11225

Contract Term: 1/22/14 -1/21/16

W.O. No.	Amount Expended	Contract Amount	Remaining Allocation
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12	1,667.50		
	\$ 58,804.00	\$ 200,000.00	\$ 141,196.00

TASK ORDER #: 12

CONTRACTOR: PSI (PROFESSIONAL SERVICE INDUSTRIES, INC) 1901 S. MYERS RD, 4TH FL OAKBROOK TER, IL 60181 Phone: (954) 267-0965 Fax: (954) 267-0944	CONTRACT NUMBER: 636-11225 CONTRACT DESC: 2 YR CONTRACT FOR GEOTECHNICAL ENGINEERING & LABORATORY CONTRACT - P11895 CC AWARD: 1/22/14,PUR-2,CAM#14-0112 UNIT COST: \$200,000 CONTRACT CAP
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TO: City of Fort Lauderdale 100 North Andrews Avenue Fort Lauderdale, FL 33301	CITY CONTACT: Jean Examond PHONE: (954)828-4507 FAX: (954)828-5074
--	---

PROJECT NAME: <u>P11770- SE 17th St. Large Water Main</u> PROJECT LOCATION: SE 17th St. Large Water Main	FUNDING SOURCE: P11770.454-6599 TASK ORDER DATE: 2/13/2015
---	---

SUMMARY OF WORK :


Provide geotechnical testing services at SE 17th St. Large Water Main for Project P11770. Testing services include, but not limited to, field density tests.

SO, DENSITY-NUCLEAR (EA)	22	EACH	\$25.00	\$550.00
SO, LBR (EA)	2	EACH	\$225.00	\$450.00
ENGINEERING TECHNICIAN (HR)	10	HOUR	\$45.00	\$450.00
ENGINEER, PROF/REG (HR)	1.5	HOUR	\$100.00	\$150.00
SECRETARY/CLERICAL (HR)	1.5	HOUR	\$45.00	\$67.50

Total Bid Price Included in Contract: \$1,667.50

Professional Service Industries

Contractor:

By:  Date: 2/18/15

Authorized Signature

Date:

Chris Andreoni - Branch Manager

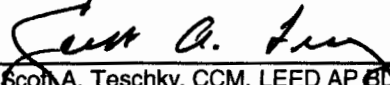
Print Name and Title

24 FEB 15 10:00AM

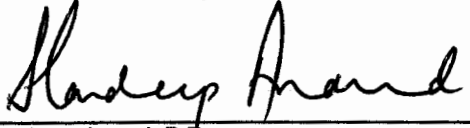
Task Order No.: 12
Contract No.: 636-11225
Project No.: P11770
Contractor: Professional Service Industries, Inc

1667^{SD}

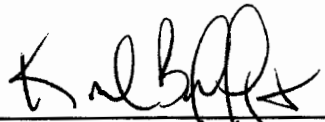
CITY SIGNATURES:

 3/13/15

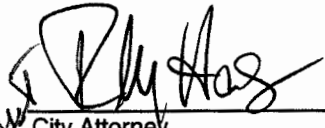
Scott A. Teschky, CCM, LEED AP BD+C Date:
Senior Project Manager

 3/17/15

Hardeep Anand, P.E., Date:
Director of Public Works

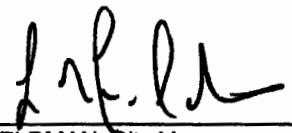
 3/30/15

Kirk W. Buffington, C.P.M. Date:
Director of Finance

 4.7.15

City Attorney Date:

CITY OF FORT LAUDERDALE, a Florida municipality:

By:  4/8/15

LEE R. FELDMAN, City Manager Date:

24 FEB 15 10:00 AM



FORT LAUDERDALE CS DEPT
 FORT LAUDERDALE, FL 33309
 (954) 267-0965

Federal ID 37-0962090

Professional Service Industries, Inc.
 www.psiusa.com

ATTN: Maria Donald
 CITY OF FORT LAUDERDALE
 100 NORTH ANDREWS AVENUE
 4TH FLOOR - ENGINEERING
 FORT LAUDERDALE FL 33301
 USA

CITY OF FORT LAUDERDALE
 100 NORTH ANDREWS AVENUE
 4TH FLOOR - ENGINEERING
 FORT LAUDERDALE FL 33301

Customer #	Purchase Order	PSI Project Number	Date	Invoice #	Page
1101205	11770	0225662	01/31/15	00345070	0001

Project: 11770- SE 17TH STREET LARGE WM

Date	Work Order Nbr	Description	Quantity	Unit Cost	Amount
		Services for January 2015			
01/07/15	0225662-2	ENGINEERING TECH (HR)	3.00	45.00	135.00
01/07/15	0225662-2	SO, DENSITY-NUCLEAR (EA)	6.00	25.00	150.00
01/07/15	0225662-2	SO, LBR (EA)	2.00	225.00	450.00
01/12/15	0225662-3	ENGINEERING TECH (HR)	2.00	45.00	90.00
01/12/15	0225662-3	SO, DENSITY-NUCLEAR (EA)	5.00	25.00	125.00
01/15/15	0225662-4	ENGINEERING TECH (HR)	2.00	45.00	90.00
01/15/15	0225662-4	SO, DENSITY-NUCLEAR (EA)	4.00	25.00	100.00
01/27/15	0225662-7	ENGINEERING TECH (HR)	3.00	45.00	135.00
01/27/15	0225662-7	SO, DENSITY-NUCLEAR (EA)	7.00	25.00	175.00
01/31/15	0225662-1	ADMIN/CLERICAL (HR)	1.50	45.00	67.50
Invoice Total:					*Continued*

TERMS: NET 30 DAYS. A SERVICE CHARGE OF 1.5% PER MONTH, WHICH IS AN ANNUAL PERCENTAGE RATE OF 18% WILL BE ADDED TO ALL PAST DUE ACCOUNTS.

To assure proper credit to your account, please return with your check made payable to PSI.

Please mail remittance to:

Customer #	Invoice #	Project Number	Amount Enclosed
1101205	00345070	0225662	

Professional Service Industries, Inc.
 7192 Solutions Center
 Chicago, IL 60677-7001

24FEB 15 9:57AM



FORT LAUDERDALE CS DEPT
 FORT LAUDERDALE, FL 33309
 (954) 267-0965

Federal ID 37-0962090

Professional Service Industries, Inc.
 www.psiusa.com

ATTN: Marla Donald
 CITY OF FORT LAUDERDALE
 100 NORTH ANDREWS AVENUE
 4TH FLOOR - ENGINEERING
 FORT LAUDERDALE FL 33301
 USA

CITY OF FORT LAUDERDALE
 100 NORTH ANDREWS AVENUE
 4TH FLOOR - ENGINEERING
 FORT LAUDERDALE FL 33301

Customer #	Purchase Order	PSI Project Number	Date	Invoice #	Page
1101205	11770	0225662	01/31/15	00345070	0002

Project: 11770- SE 17TH STREET LARGE WM

Date	Work Order Nbr	Description	Quantity	Unit Cost	Amount
01/31/15	0225662-1	ENGINEER, PROF/REG (HR)	1.50	100.00	150.00

Invoice Total:	\$1,667.50
Balance Due:	\$1,667.50

TERMS: NET 30 DAYS. A SERVICE CHARGE OF 1.5% PER MONTH, WHICH IS AN ANNUAL PERCENTAGE RATE OF 18% WILL BE ADDED TO ALL PAST DUE ACCOUNTS.

To assure proper credit to your account, please return with your check made payable to PSI.

Please mail remittance to:

Customer #	Invoice #	Project Number	Amount Enclosed
1101205	00345070	0225662	

Professional Service Industries, Inc.
 7192 Solutions Center
 Chicago, IL 60677-7001

24FEB 15 9:57AM



Professional Service Industries, Inc.
 6500 N.W. 12th Avenue, Suite 116
 Fort Lauderdale, FL 33309
 Eng Certificate Of Authorization 3684
 Phone: (954) 267-0965
 Fax: (954) 267-0944

Field Density Test Report

Report No: FDR:0225662-2

Issue No: 1

Client: CITY OF FORT LAUDERDALE
 100 NORTH ANDREWS AVENUE,
 4TH FLOOR - ENGINEERING
 FORT LAUDERDALE, FL 33301

CC:

Project: 11770- SE 17TH STREET LARGE WM
 FORT LAUDERDALE, FL

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc. If a non-compliance appears on this report, to the extent that the reported non-compliance impacts the project, the resolution is outside the PSI scope of engagement.

Approved Signatory: Christopher Andreoni (Branch Manager)
 Date of Issue: 1/12/2015

Testing Details

Tested By: Jean Martin
Date Tested: 1/7/2015
Field Methods: ASTM D 6938
Gauge Type: Troxler
Model Number: 3430
Serial Number: 61412

Test Mode: Direct Transmission
Standard Count: Density: 2384
Standard Count: Moisture: 609

Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft ³)	OMC (%)
0225662-2-S8	On Site	Light gray sand with rocks	AASHTO T 180 (FM 5-515)	104	15
0225662-2-S7	On Site	Light gray sand with rocks	AASHTO T 180 (FM 5-515)	111	12

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Moisture Content (%)	OMC Var	Dry Density (lb/ft ³)	Comp (%)	Comp Spec	Results
1	0225662-2-S8	12	113.2	8.7	-6.3	104.1	100.1	≥98	A
2	0225662-2-S8	12	111.4	8.9	-6.1	102.3	98.4	≥98	A
3	0225662-2-S7	6	113.4	7.1	-4.9	105.9	95.4	≥98	B
4	0225662-2-S7	6	117.8	7.2	-4.8	109.9	99.0	≥98	A
5	0225662-2-S7	6	112.8	5.9	-6.1	106.5	95.9	≥98	B
6	0225662-2-S7	6	111.8	6.1	-5.9	105.4	95.0	≥98	B

Location

General Location: Large Water Main Pipe Run at SE17th Street and Andrews Avenue

Test No.	Field Sample ID	Location	Test Elev/Depth
1	2-S1	Station #53+31	1st Lift
2	2-S2	Station #52+00	1st Lift
3	2-S3	Station #53+31	2nd Lift
4	2-S4	Station #52+00	2nd Lift
5	2-S5	Station #52+50	3rd Lift
6	2-S6	Station #53+00	3rd Lift

24 FEB 15 9:57AM

Comments

Legend

OMC = Optimum Moisture Content
 MDD = Maximum Dry Density
 A = TEST RESULTS COMPLY WITH SPECIFICATION
 B = COMPACTION PERCENTAGE DOES NOT COMPLY WITH SPECIFICATIONS



Professional Service Industries, Inc.
 6500 N.W. 12th Avenue, Suite 116
 Fort Lauderdale, FL 33309
 Eng Certificate Of Authorization 3684
 Phone: (954) 267-0965
 Fax: (954) 267-0944

Field Density Test Report

Report No: FDR:0225662-3

Issue No: 1

Client: CITY OF FORT LAUDERDALE CC:
 100 NORTH ANDREWS AVENUE,
 4TH FLOOR - ENGINEERING
 FORT LAUDERDALE, FL 33301

Project: 11770- SE 17TH STREET LARGE WM
 FORT LAUDERDALE, FL

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Approved Signatory: Christopher Andreoni (Branch Manager)
 Date of Issue: 1/19/2015

Testing Details

Tested By: Lucet Jonassaint
 Date Tested: 1/12/2015
 Field Methods: ASTM D 6938
 Gauge Type: Troxler Test Mode: Direct Transmission
 Model Number: 3430 Standard Count: Density: 2457
 Serial Number: 61412 Standard Count: Moisture: 635

Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft ³)	OMC (%)
0225662-2-S7	On Site	Light gray sand with rocks	AASHTO T 180 (FM 5-515)	111	12

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Moisture Content (%)	OMC Var	Dry Density (lb/ft ³)	Comp (%)	Comp Spec	Results
1	0225662-2-S7	6	117.2	6.4	-5.6	110.2	99.3	≥98	A
2	0225662-2-S7	6	120.4	7.6	-4.4	111.9	100.8	≥98	A
3	0225662-2-S7	6	122.2	7.6	-4.4	113.6	102.3	≥98	A
4	0225662-2-S7	6	119.0	8.2	-3.8	110.0	99.1	≥98	A
5	0225662-2-S7	6	139.3	7.0		130.2		≥98	A

Location

General Location: Water Main Backfill (Subgrade) Retest

Test No.	Field Sample ID	Location
1	3-S1	Station 53+30
2	3-S2	Station 51+90
3	3-S3	Station 53+25
4	3-S4	Station 51+95
5	3-S5	Station 52+40

24 FEB 15 9:58AM

Comments

Legend

OMC = Optimum Moisture Content
 MDD = Maximum Dry Density
 A = TEST RESULTS COMPLY WITH SPECIFICATION



Professional Service Industries, Inc.
 6500 N.W. 12th Avenue, Suite 116
 Fort Lauderdale, FL 33309
 Eng Certificate Of Authorization 3684
 Phone: (954) 267-0965
 Fax: (954) 267-0944

Field Density Test Report

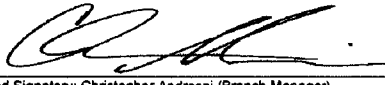
Report No: FDR:0225662-4

Issue No: 1

Client: CITY OF FORT LAUDERDALE CC:
 100 NORTH ANDREWS AVENUE,
 4TH FLOOR - ENGINEERING
 FORT LAUDERDALE, FL 33301

Project: 11770- SE 17TH STREET LARGE WM
 FORT LAUDERDALE, FL

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Approved Signatory: Christopher Andreoni (Branch Manager)
 Date of Issue: 1/19/2015

Testing Details

Tested By: Lucet Jonassaint
 Date Tested: 1/15/2015
 Field Methods: ASTM D 6938
 Gauge Type: Troxler Test Mode: Direct Transmission
 Model Number: 3430 Standard Count: Density: 3038
 Serial Number: 31077 Standard Count: Moisture: 686

Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft ³)	OMC (%)
0225662-2-S7	On Site	Light gray sand with rocks	AASHTO T 180 (FM 5-515)	111	12

Test Results

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1	0225662-2-S7	12	126.9	11.1	-0.9	114.2	102.9	≥98	A
2	0225662-2-S7	12	127.9	10.8	-1.2	115.4	104.0	≥98	A
3	0225662-2-S7	6	127.8	10.9	-1.1	115.2	103.8	≥98	A
4	0225662-2-S7	6	126.4	11.9	-0.1	113.0	101.8	≥98	A

Location

General Location: Pipe Backfill water Main

Test No.	Field Sample ID	Location
1	4-S1	Station 53+75
2	4-S2	Station 53+72
3	4-S3	Station 53+68
4	4-S4	Station 53+65

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Comments

Legend

OMC = Optimum Moisture Content
 MDD = Maximum Dry Density
 A = TEST RESULTS COMPLY WITH SPECIFICATION



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 Phone: (954) 267-0965
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Field Density Test Report

Report No: FDR:0225662-7

Issue No: 1

Client: CITY OF FORT LAUDERDALE CC:
 100 NORTH ANDREWS AVENUE,
 4TH FLOOR - ENGINEERING
 FORT LAUDERDALE, FL 33301

Project: 11770- SE 17TH STREET LARGE WM
 FORT LAUDERDALE, FL

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Approved Signatory: Christopher Andreoni (Branch Manager)
 Date of Issue: 1/30/2015

Testing Details

Tested By: Jean Martin
 Date Tested: 1/27/2015
 Field Methods: ASTM D 6938
 Gauge Type: Troxler Test Mode: Direct Transmission
 Model Number: 3430 Standard Count: Density: 2507
 Serial Number: 61412 Standard Count: Moisture: 651

Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft ³)	OMC (%)
0225662-2-S7	On Site	Light gray sand with rocks	AASHTO T 180 (FM 5-515)	111	12
0225662-7-S8	On Site	LIMEROCK	ASTM D 1557 (ASTM)	128.5	8.5

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Moisture Content (%)	OMC Var	Dry Density (lb/ft ³)	Comp (%)	Comp Spec	Results
1	0225662-2-S7	12	129.2	10.8	-1.2	116.6	105.0	≥98	A
2	0225662-2-S7	12	122.5	8.0	-4.0	113.4	102.2	≥98	A
3	0225662-2-S7	6	124.6	11.2	-0.8	112.1	101.0	≥98	A
4	0225662-2-S7	6	125.5	10.7	-1.3	113.4	102.2	≥98	A
5	0225662-7-S8	6	135.2	5.6	-2.9	128.0	99.6	≥98	A
6	0225662-7-S8	6	138.2	4.0	-4.5	132.9	103.4	≥98	A
7	0225662-7-S8	6	137.6	3.9	-4.6	132.4	103.0	≥98	A

Location

General Location: 11770-SE 17th street Large Water Main

Test No.	Field Sample ID	Location	Test Elev/Depth
1	7-S1	Station #50+75	1st Lift
2	7-S2	Station #50+70	2nd Lift
3	7-S3	Station #50+67	3rd Lift
4	7-S4	Station #50+65	4th Lift
5	7-S5	Station #53+00	Base
6	7-S6	Station #52+00	Base
7	7-S7	Station #51+00	Base

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Comments

Legend

OMC = Optimum Moisture Content
 MDD = Maximum Dry Density
 A = TEST RESULTS COMPLY WITH SPECIFICATION



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Limerock Bearing Ratio Test Report

Report No: LBR:0225662-2-S7

Issue No: 1

Client: CITY OF FORT LAUDERDALE CC:
 100 NORTH ANDREWS AVENUE,
 4TH FLOOR - ENGINEERING
 FORT LAUDERDALE, FL 33301

Project: 11770- SE 17TH STREET LARGE WM
 FORT LAUDERDALE, FL

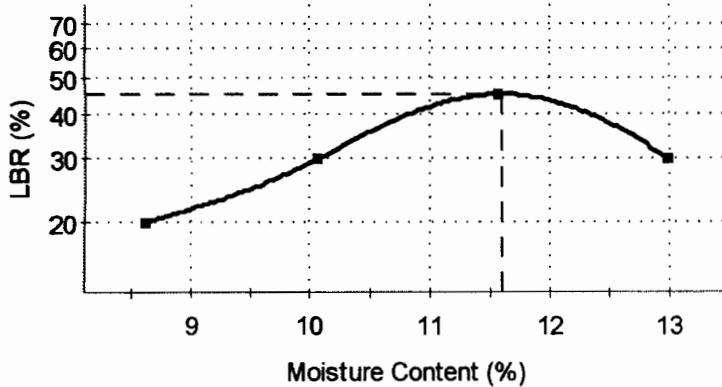
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Approved Signatory: Christopher Andreoni (Branch Manager)
 Date of Issue: 1/12/2015

Sample Details

Sample ID:	0225662-2-S7	Date Sampled:	1/7/2015
Client Sample ID:	2-S7	Sampling Method:	Stockpiles/Trans - AASHTO T 2 - 5.3.3
Source:	SUBGRADE	Material:	Light gray sand with rocks
Specification:	Subgrade	Location:	Stockpile
Tested By:	Deibbys Rodriguez	Date Tested:	1/12/2015

Moisture vs LBR

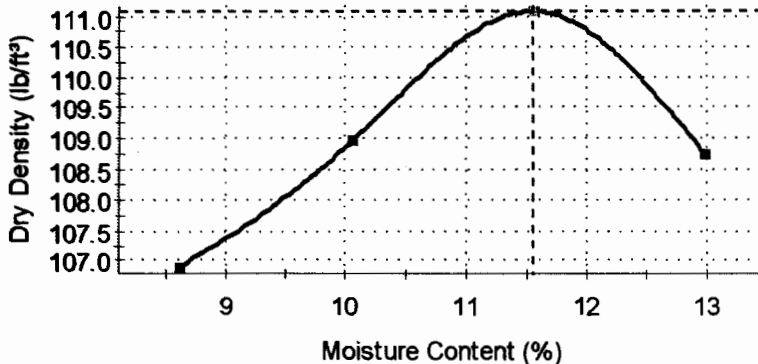


Test Results

FM 5-515

Required LBR (%):	40
Maximum LBR (%):	45
MDD (lb/ft ³):	111
OMC (%):	12

Moisture vs Dry Density



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Comments



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Limerock Bearing Ratio Test Report

Report No: LBR:0225662-2-S8

Issue No: 1

Client: CITY OF FORT LAUDERDALE CC:
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 4TH FLOOR - ENGINEERING
 FORT LAUDERDALE, FL 33301

Project: 11770- SE 17TH STREET LARGE WM
 FORT LAUDERDALE, FL

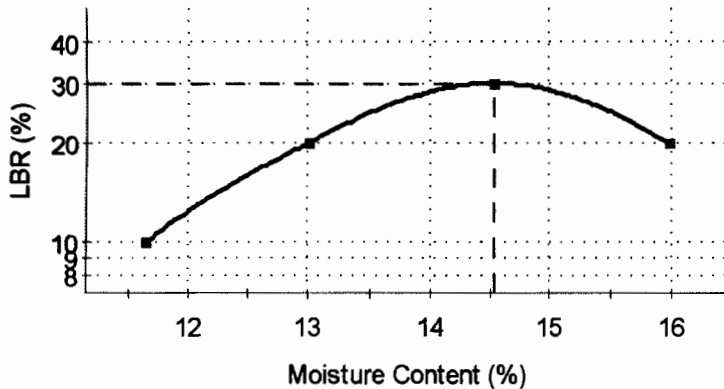
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Approved Signatory: Christopher Andreoni (Branch Manager)
 Date of Issue: 1/12/2015

Sample Details

Sample ID:	0225662-2-S8	Date Sampled:	1/7/2015
Client Sample ID:	2-S8	Sampling Method:	Stockpiles/Trans - AASHTO T 2 - 5.3.3
Source:	SUBGRADE	Material:	Light gray sand with rocks
Specification:	Subgrade	Location:	Stockpile
Tested By:	Deibbys Rodriguez	Date Tested:	1/12/2015

Moisture vs LBR

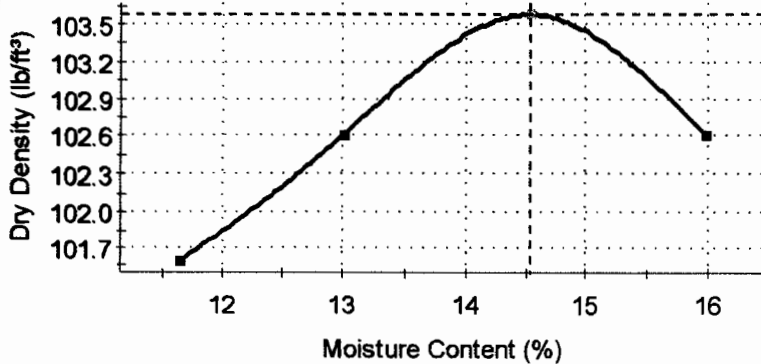


Test Results

FM 5-515 _____

Required LBR (%): 40
 Maximum LBR (%): 30
 MDD (lb/ft³): 104
 OMC (%): 15

Moisture vs Dry Density



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Comments



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Material Test Report

Report No: MAT:0225662-2-S7

Issue No: 1

Client: CITY OF FORT LAUDERDALE CC:
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 FORT LAUDERDALE, FL 33301

Project: 11770- SE 17TH STREET LARGE WM
 FORT LAUDERDALE, FL

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Approved Signatory: Christopher Andreoni (Branch Manager)
 Date of Issue: 1/12/2015

Sample Details

Sample ID: 0225662-2-S7
 Client Sample ID: 2-S7
 Date Sampled: 01/07/15
 Sampled By: Jean Martin
 Specification: Subgrade
 Supplier: On Site
 Source: SUBGRADE
 Material: Light gray sand with rocks
 Sampling Method: Stockpiles/Trans - AASHTO T 2 - 5.3.3
 General Location: Large Water Main Pipe Run at SE17th Street and Andrews Avenue
 Location: Stockpile
 Lift:

Particle Size Distribution

Other Test Results

Description	Method	Result	Limits
	AASHTO T 180		
Method		FM 5-515	
Maximum Dry Density (lb/ft ³)		111	
Adjusted Maximum Dry Density (lb/ft ³)		111	
Optimum Moisture Content (%)		12	
Adjusted Optimum Moisture Content (%)		12	
Oversize Material (%)		5	
Tested By Others			
Date Tested		1/12/2015	

Chart

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Comments

N/A



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Material Test Report

Report No: MAT:0225662-2-S8

Issue No: 1

Client: CITY OF FORT LAUDERDALE CC:
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 4TH FLOOR - ENGINEERING
 FORT LAUDERDALE, FL 33301

Project: 11770- SE 17TH STREET LARGE WM
 FORT LAUDERDALE, FL

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Approved Signatory: Christopher Andreoni (Branch Manager)
 Date of Issue: 1/12/2015

Sample Details

Sample ID: 0225662-2-S8
 Client Sample ID: 2-S8
 Date Sampled: 01/07/15
 Sampled By: Jean Martin
 Specification: Subgrade
 Supplier: On Site
 Source: SUBGRADE
 Material: Light gray sand with rocks
 Sampling Method: Stockpiles/Trans - AASHTO T 2 - 5.3.3
 General Location: Large Water Main Pipe Run at SE17th Street and Andrews Avenue
 Location: Stockpile
 Lift:

Particle Size Distribution

Other Test Results

Description	Method	Result	Limits
	AASHTO T 180		
Method		FM 5-515	
Maximum Dry Density (lb/ft ³)		104	
Adjusted Maximum Dry Density (lb/ft ³)		104	
Optimum Moisture Content (%)		15	
Adjusted Optimum Moisture Content (%)		15	
Oversize Material (%)		0	
Tested By Others			
Date Tested		1/12/2015	

Chart

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Comments

N/A