

# Brevard Waterworks, Inc.

February 25, 2015

Office of Commission Clerk  
Public Service Commission  
2540 Shumard Oak Blvd.  
Tallahassee, FL 32399

RECEIVED-FPSC  
15 MAR -3 AM 9:06  
COMMISSION  
CLERK

*Re: Docket No. 140186-WU - Application of Brevard Waterworks, Inc. for Staff Assisted Rate Case in Brevard County – Staff Third Data Request Response*

Dear Commission Clerk,

Please find attached for submission and consideration, Brevard Waterworks, Inc. response to Staff's Third Data Request dated January 27, 2015.

1. According to the Utility's response to item No. 3 of staff's second data request, the projected cost of the pipe replacement project is \$835,437. The following items relate to this project:
  - a. Please provide all support documentation (i.e. contractor quotes, support calculations, and/or work papers) associated with the projected costs for engineering and pavement/asphalt replacement in the amounts of \$50,000 and \$25,000 respectively.

**Response:** See attached work papers for the support of these amounts. The cost of engineering, without permits, totals \$48,900, excluding any markup for overhead and profit. The work paper provides the scope of work and costs. The hourly rates for the U.S. Water personnel are obtained from the attached Schedule of Service Fees effective May 1, 2014. The GRP/GPS locates is calculated using the hourly rate of the Maintenance Mechanic. These costs are less than the outside quote from GHD (Ground Hound Detection Service, Inc.) for a similar project (attached). GHD charges \$1,700 per day for Ground Penetrating Radar (GPR). The professional engineering costs are obtained using the Registered Professional Engineer fees; and the CAD operator fees are also listed.

For the Schedule of Service Fees, USW used the RSMeans® Heavy Construction Cost Data to conduct cost analysis. Typically the fees charged by USW are under the RSMeans® costs. RSMeans is a construction estimation database that is used by professional estimators for up to date labor, materials and overhead costs for specific project types and locations. Since 1942, RS Means has been actively engaged in construction cost publishing and consulting throughout North America. RS Means collects data from all facets of the industry, including both the private and public sectors, including federal, state, and municipal agencies, corporations, institutions, construction management firms, hospitals, and associations.

RS Means is the national leader for custom database development to fit any construction or facilities management situation. RS Means has developed and maintains a global cost estimating database for the

Brevard Waterworks, Inc.  
Staff's Third Data Request

U.S. Army Corps of Engineers and the Department of Defense. Means has developed a cost index for various building types for the U.S. Department of Labor, Bureau of Labor Statistics.

Below is a cost comparison for the Maintenance Technician:

	<u>UWSC</u>	<u>RSMeans®</u>
Maintenance Technician (Skilled Worker)	\$52.01	\$73.25

For the asphalt repairs, it is estimated that at a minimum there would be approximately 25 locations of street and/or driveway replacements. The cost per ton of asphalt is \$175 per ton for 85 square feet. (Attached) Each location would require a 20 ft x 20 ft replacement. The milling cost is \$1,000 with 4 hour minimum. The project is estimated to take a minimum of 7 days. Total replacement costs are \$23,471, excluding any markup for overhead and profit.

- b. Please provide any supporting documentation for the original date of any corresponding retirements associated with the pipe replacement project.

**Response:** Please see PSC Order No. PSC-14-0326-PAA-WU, issued June 25, 2014. On page 2 of the Order, it indicates that the original certificate was issued on January 27, 1971 in Order No. 5033. Brevard Waterworks is unable to obtain a copy of Order No. 5033. The certificate was then transferred in March 17, 1981 by Order No. 9886. Brevard Waterworks believes that the water mains and services have been in place since the original water system was installed. At a minimum the mains have been in service since the January 27, 1971 date. The previous owner, Aqua Utilities Florida, Inc. replaced the water meters sometime around 2008 or 2009. If required, the retirements would be made by crediting the plant accounts for the mains and services and debiting accumulated depreciation for the same accounts in the same amounts.

**Additional Actions Taken on Unaccounted For Water:**

From a historical perspective, the Oakwood system is a very old distribution system with numerous galvanized services from the water main to the water meter. The majority of the mains are composed of Asbestos Cement Pipe (AC) pipe. AC pipe was first introduced in North America in the late 1920s and became a common choice for potable water main construction from the 1940s to the 1970s. The use of AC pipe was largely discontinued in North America in the early 1980s but AC pipe is still a significant portion of the water distribution systems in many North American cities. One of the main disadvantages of AC pipe is that it is brittle and tends to crack under stress. In addition, AC pipe is subject to break failure due to soil differential movement or inadequate bedding support. The water table in this area is very high. Based on Brevard Waterworks field investigations discussed further below, it has been determined that the water in the soil is a mere 3 foot from the surface. Thus the AC pipe in Oakwood is submerged in water and is waterlogged. AC pipe is subject to structural failure due to joint leaks, poor bedding, and pipe movements. Further, AC pipe is prone to leaks due to loss of soil support and bending failure.

Over time, AC pipe undergoes gradual degradation in the form of corrosion (i.e., internal calcium leaching due to conveyed water and/or external leaching due to groundwater). Such leaching leads to reduction in effective cross-section, which results in pipe softening and loss of mechanical strength.

Brevard Waterworks, Inc.  
Staff's Third Data Request

Accordingly, as the water distribution system ages, the number of AC pipe failures increases with time. Based on Brevard Waterworks thorough field investigation, it was determined that there is 10,825 LF of AC pipe in Oakwood. As stated previously, this system has been in service since 1971. (See Order No. 5033)

In PSC Order No. PSC-93-0423-FOF-WS, issued March 22, 1993, the Commission stated:

*Oakwood*

*In its MFRs, the utility estimated that there were approximately 1,200 pipe joints leaking at a rate of 120,000 gallons per month.*

In Order No. PSC-09-0385-FOF-WS, issued May 29, 2009, involving this system there were no excessive unaccounted for water adjustments made. In the subsequent order, Order No. PSC-11-0256-PAA-WS, issued June 13, 2011, the Commission found the unaccounted for water to be 9.21%. However, the previous owner did not address the condition of the system or propose any possible resolution nor discuss the potential impact pursuant to Rule 25-30.4325(10), Florida Administrative Code. As previously addressed, Brevard Waterworks has identified that the only viable solution of replacing the water distribution system is not economically feasible for this small system and customer base.

Brevard Waterworks has taken numerous additional actions in the Oakwood system in an attempt to identify and potentially isolate the unaccounted for water issues. There has been dedicated field staff conducting several thorough field investigations throughout the entire Oakwood subdivisions several times beginning in February, June, September, and December 2014 and continuing through January 2015. On at least three occasions, a minimum of 2 people has walked the entire Oakwood subdivision. During these field audits, the staff has taken the following actions:

- examined each water meter
- examined each service piping and connection
- identify piping size and location
- tested the water meters for accuracy
- examined and tested the bulk water meter of Brevard County
- investigated and discovered any "jumpers" or tampered water connections (mainly for disconnected homes)
- looked for usage on meters disconnected
- looked for private homes on wells
- investigated vacant homes
- investigated connections not in the billing system

The field investigation audit concluded that the individual water meters are accurate; as well as the County's bulk water meter was accurate. Door tags were distributed to homes where water usage was detected on disconnected accounts. As previously stated, the majority of the water mains and water meter connections are located in the back of the homeowners' properties. The majority of the homes have fences around the yards with numerous large dogs. In addition, numerous homes have backyard buildings and/or sheds, large trees, piles of debris, boats and/or cars over water meters.

Brevard Waterworks, Inc.  
Staff's Third Data Request

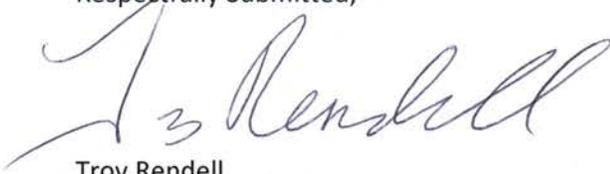
The old galvanized service connections are covered with rust and have small drips throughout the service area. (See attached photos) There also are some 2" galvanized mains. These pipes build up with sediment on the inside, making the inside diameter of the pipe smaller and smaller over time, eventually to the point where water flow is unusable. These pipes also corrode at the joints, which can lead to leaks. Galvanized steel pipe was often used for water supply piping in homes until the early 1970s. It is rarely used today because corrosion problems limit its useful lifespan to between 40 and, at best, 50 years. Rust-corrosion accumulates inside the pipe and causes a plumbing version of arteriosclerosis, with the gradual hardening-of-the-arteries narrowing the diameter of the pipe in horizontal runs to the size of a soda-straw in places. Essentially, it rusts from the inside out. This restricts the flow of water to faucets and showers and, eventually, the corrosion causes the pipe to spring leaks.

It is very difficult to locate the numerous small leaks in waterlogged soil with a water table of 3 feet deep. The majority of the water meter boxes are filled with water as well. In addition, the Utility Manager went to Oakwood on January 13 – 14, 2015 in an attempt to quantify leaks in the system after the repairs below were made. The purpose of this investigation was to observe the County's bulk meter at times of customer usage and at a time when there should be no usage by customers. The meter was read on 1/13/15 at 3:30 P.M. and the flow from meter was 12.6 gallons per minute (gpm). The meter was then read on 1/14/15 at 2:00 A.M. and the flow from meter was 4.8 gpm. This was a time that there should be no to little usage since it was at 2 o'clock in the morning. The Utility Manager went through the neighborhood and found only 7 houses with lights on, mostly bathroom lights, where were probably night lights. He then read the meter on 1/14/15 at 8:00 AM and the flow from meter was 12.8 gpm. This would indicate that the leaks throughout the system was at a minimum of 4.8 gpm or 207,360 gallons per month (4.8 gpm X 60 minutes X 24 hours X 30 days).

In October 2014, Brevard Waterworks did discover two large main and service breaks. These repairs were made and the attached invoices reflect the costs of repairs. Brevard Waterworks has calculated the leak amounts to be 207,360 gallons per month.

Brevard Waterworks requests that (a) the pro forma cost of repairs be considered in the SARC; and, (b) the amount of water leak be considered for each month in the test year.

Respectfully Submitted,



Troy Rendell  
Manager of Regulated Utilities  
// for Brevard Waterworks, Inc.

**Brevard Waterworks, Inc.**

Docket No. 140186-WU

Replacement of water mains:

**Engineering Costs:**

**Preconstruction:**

> includes utility locates of existing mains and soft digs	
> 40 - 50 potential soft dig locates	
> 2 Maintenance Mechanics, 8 hours day, 7 1/2 days @ \$52/hour (6 digs/day)	\$ 6,241.20
GPR locates including roadway and utilities	
> \$200/hr x 8 hours x 5 days	\$ 8,000.00
GPR locates all facilities for prep of engineering drawings	
> \$1,000/day x 8 days	\$ 8,000.00
Cad Operator	
> prepare plans 14,000 LF	
> \$66.99/hr x 8 hrs x 14 days	\$ 7,502.88
Registered Engineer	
> \$130.25/hr x 40 hours	\$ 5,211.20
Consumables LS	\$ 500.00
Pre bid, precon meetings LS	\$ 1,000.00

**Post Construction:**

Field locating/GPS and prep of as built drawings	
RCT Surveying & Mapping	\$ 8,000.00
Contingencies (10%)	\$ 4,445.53
Total Engineering (not including permits)	<u>\$ 48,900.81</u>

**Pavement/Ashpalt Replacement:**

> 25 locations pavement replacement	
> 20 ft X 20 Ft replacement	
> \$175/ ton = 85 SF (see attached quote)	\$ 16,470.59
Milling > \$1000 with 4 hour minimum	
> 7 days minimum	\$ 7,000.00
	<u>\$ 23,470.59</u>

# U.S. Water Services Corporation

## ATTACHMENT G

### SCHEDULE OF SERVICE FEES

**Effective May 1, 2014**

1	Principal	\$166.52 per hour
2	Director of Engineering Services: (Registered Professional Engineer)	\$145.89 per hour
3	Engineer III (Registered Professional Engineer)	\$130.28 per hour
4	Engineer II	\$106.82 per hour
5	Engineer I	\$ 84.33 per hour
6	Sr. Environmental Consultant	\$125.70 per hour
7	Hydrogeologist (Registered Professional Geologist)	\$118.17 per hour
8	Sr. Project Manager /Utility Manager, CIP or PSC Filings	\$139.66 per hour
9	Project Manager	\$ 98.92 per hour
10	Field Inspector	\$ 95.86 per hour
11	Engineering Technician	\$ 62.14 per hour
12	Cad Operator	\$ 66.99 per hour
13	Instrumentation/Control Technician/Maintenance Supervisor/Chief Mechanic	\$ 89.43 per hour
14	Lab Tech/Collection Capture	\$ 42.66 per hour
15	Tradesman	\$ 57.91 per hour
16	Maintenance Technician	\$ 52.01 per hour
17	Welder/Fabricator	\$ 65.00 per hour
18	Utility Electrician	\$ 67.82 per hour
19	Certified Cross Connection Control Technician (Backflow Prevention Technician)	\$ 73.37 per hour
20	Water and Wastewater Plant Operator (LEAD)	\$ 79.01 per hour
21	Water and Wastewater Plant Operator	\$ 58.19 per hour
22	Administrative Support	\$ 52.37 per hour
23	Materials and reimbursable expenses will be billed at actual cost plus: 18%	18%
24	Automobile Travel Mileage Reimbursement Associated With Consulting Services	\$ 0.55 per mile
25	Disposal Fee for Disposal of Non Hazardous Material and Debris.	\$ 13.99 per visit
26**	Labor Rates of 1.5 times the regular hourly rate will apply under the following circumstances: **Monday - Friday from 4:00pm to 7:00am and Weekends at All Hours	
27	Labor Rates of 2.0 times the regular hourly rate will apply on holidays recognized by US Water.	
28	Operations Supplies provided will be billed at actual cost plus 18%.	

#### EQUIPMENT

29	Confined Space Entry – With Permit and Equipment	\$110.00 per/entry
30	Diaphragm Pump Rental	\$ 52.37 per/day
31	Submersible Bypass Pump Rental	\$ 79.01 per/day
32	Cut Saw Rental	\$ 29.11 per/day
33	Cut Saw Blades	\$ 11.65 each
34	RPZ Certification	\$145.60 each
35	Lift Station Calibration and Testing	\$368.78 each
36	Pressure Washer	\$ 28.04 per/hour
37	Pressure Jetter	\$ 84.68 per/day
38	Cutting Torches	\$ 84.68 per/day
39	Crane Truck	\$138.12 per/hour
40	VacTruck/Residuals Hauler	\$317.51 per/hour
41	Residual Liquid Hauled	\$ 0.39 per/gallon
42	Pump Hoist	\$ 78.08 per/day
43	TV Camera	\$ 88.52 per/foot

Fees are subject to change without notice and are updated annually at a minimum.

Invoices may be subject to fuel surcharges.

END

RCT SURVEYING & MAPPING, INC.  
18832 ARIPEKA RD  
P.O. BOX 145  
ARIPEKA, FL 34679

Project Proposal

2/23/2015

Client: US Water Services Corp.

Project Location: Oakwood – Brevard Waterwork, Inc.

Scope of Work:

Locate existing ACP 4” water main. Approximately 14,000 linear feet.

2 man survey crew :

Cost \$100.00 per hour at approximately 40 hours. ----- \$4,000.00

Licensed Surveyor:

Cost \$100.00 per hour at approximately 20 hours ----- \$2,000.00

CAD Drafting / Office work:

Cost \$50.00 per hour at approximately 40 hours ----- \$2,000.00

Please sign below to proceed with said Scope of Work

\_\_\_\_\_

An e-mail with approval is also accepted as an electronic signature.



A Professional Utility Locating Service

November 23, 2010

Mr. Mark Mickshaw  
US Water Services Corporation  
6915 Perrine Ranch Road  
New Port Richey, FL 34655  
[MMickshaw@uswatercorp.com](mailto:MMickshaw@uswatercorp.com)  
727-243-0856

Re: Wastewater Treatment Plant; 2850 Seven Springs Blvd., New Port Richey, FL 34655

Mr. Mickshaw,

Ground Hound Detection Services, Inc. (GHD) is pleased to provide the following proposal for utility locating services at the above referenced project. A subsurface Ground Penetrating Radar (GPR) unit will be used in addition to Electromagnetic induction (EM) to attempt to perform/verify the locations of underground utilities along one of the two proposed paths for a new water line as indicated in the provided site plans. As an option, included is a cost for GHD to locate BOTH proposed routes. During the same mobilization, Vacuum Excavation will be utilized to uncover utilities in conflict with the preferred trench line. Test hole data sheets of our vertical discoveries will be provided. Not to scale sketches of our horizontal discoveries will also be provided. The client will survey our discoveries and restore the hard surface after the vacuum excavations are completed..

#### DESCRIPTION OF SERVICES:

Electromagnetic induction is a method in which a transmitter signal is applied by directly coupling to a target. As long as the target is metallic, a receiver is used to detect the transmitted signal. Passive detection is another technique used to locate naturally occurring magnetic fields that exist on power cables generating a 50/60 Hz signal. Additionally, passive VLF signals can be detected on other metallic utilities that are typically long in length and are well grounded electrically.

A GPR unit can assist in identifying nonmetallic utilities and other structures that are unidentifiable using traditional electromagnetic techniques. The GPR method transmits electromagnetic waves, which are pulsed at discrete distance/time intervals. The transmitted pulse radiates through the earth whereby a portion of the energy is reflected from interfaces of contrasting electrical properties (e.g. pavement and soil interface, soil stratigraphic changes, and buried metallic objects) while the remaining energy continues until reaching additional reflectors where the process is repeated. Reflected energy is received by the antennae and recorded for later processing and interpretation. Factors such as soil moisture, clay content, and variations in the dielectric constants of materials control the effectiveness of the GPR method. Wet conductive soils severely attenuate GPR signals and thus affect the depth of exploration.

Vacuum excavation is a non-destructive technique used to safely expose utilities using a combination of compressed and vacuum air. Once the utility has been exposed, vertical elevation, diameter and material type can be obtained. Conditions such as groundwater, hard, rocky soils, sub-surface obstructions and targets at deep elevations can limit the performance of vacuum excavation. Targets beyond the limitations of the Vacuum system may be "probed" with an air lance. This technique is effective in determining elevation but may be ineffective for determining outside diameter and material type. Duct banks, large diameter targets and structures often require multiple excavations in order to acquire desired information.

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Mr. Mark Mickshaw  
November 23, 2010

Incorporated herein: Locating underground utilities is not an exact science. Therefore, Ground Hound Detection Services, Inc. ("GHD") expresses no guarantees that using one or any of the available technologies for identifying utilities/structures will identify all utilities/structures and/or meet the objective of each individual project. US Water Services Corporation understands that limitations within the available technology, the complexity of site conditions and circumstances beyond the control of GHD may limit the performance/results of the GHD's services. The services provided by GHD shall be performed in accordance with generally accepted professional practices as related to the nature of services performed. GHD cannot guarantee that all utilities within any given survey area will be identified as a result of inherent limitations within the technology and existing site conditions. Project Owners, US Water Services Corporation and any of its subcontractors shall hold harmless and indemnify GHD against any and all losses as a result of inability to locate or mislocate due to limitations within the available technology, the complexity of site conditions and circumstances beyond its control, but not against negligence on the part of GHD or its employees. Hand digging is required in all situations when excavating within 24" of Ground Hound Detection Services, Inc. markings. The services provided by GHD shall be performed in accordance with generally accepted professional practices as related to the nature of services performed. Payment to GHD shall not be contingent upon its performance or results due to any limiting condition as described.

**This proposal constitutes the entire agreement between the parties. The agreement may not be altered, modified or conditioned in any respect without the prior written consent of all parties. Documents such as but not limited to "change orders", "purchase orders", sub-contract agreements, and statements of terms and conditions of work shall require prior written acceptance by GHD to be binding. Payment to GHD for work performed pursuant to this proposal shall not be contingent upon GHD's consent to any proposed alteration, modification or condition to the agreement.**

#### CONDITIONS – Locating of underground utilities for pre-excavation/design purposes:

- Utility locations are being provided in an attempt to prevent or reduce the likelihood of damage during excavation and /or provide design information.
- Any available as-builts, engineered or other record drawings must be supplied to GHD prior to commencement of field work.
- Areas to be surveyed must be relatively level and free of obstructions.
- Results are dependent upon field conditions at the time of locating services.
- GHD's inability to complete the project due to delays, conditions outside GHD's control does not void this contract.
- If GHD is to produce a map (optional additional fee), customer is responsible for providing an electronic AutoCad file for GHD to map its discoveries. If a file is not available, additional costs and time to produce the drawing are likely.
- Maps produced by GHD are not considered to be "survey grade" drawings. GHD will include dimensions from a fixed feature in the field/drawing to the horizontal position of the target being depicted. Drawings are not prepared by a licensed Engineer, Surveyor or Draftsman. In addition, drawings are not prepared to any State survey or drafting standard.
- If GHD reviews its discoveries with others responsible for mapping/data collection, a copy of the file must be provided to GHD to review for errors and omissions.
- APWA standards are used for marking.
- GHD is not responsible for, moved, altered, obliterated or maintaining marks. GHD will impose an additional fee to relocate/remark facilities.
- If underground facilities are damaged, whether marked by GHD or not, it is your obligation to notify a representative of GHD within 48 hours of the damage.
- GHD is not responsible for errors and omissions of recorded utility information.
- GHD is not a substitute for Chapter 556 of the FL State Statue (Underground Facility Damage Prevention & Safety Act). Prior to project construction, excavating contractor is responsible for securing locations of public utilities through Sunshine State One Call of Florida (811).
- The performance of GHD's services is limited to full and unobstructed access to include but not limited to: mechanical rooms, manholes, hand holes, vaults, meter rooms, telecom rooms, fixtures (plumbing, electrical, communication), dispensers, fenced compounds, tanks and structures. Full cooperation from the on site personnel is necessary to perform a complete survey.

Page Three  
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**COST ESTIMATE**

EM & GPR Field Survey

- Perform/verify horizontal locations of existing utilities using EM & GPR.
- Mark targets on the ground surface as necessary.
- Provided test hole data sheets of vertical discoveries.
- Review all discoveries with client/surveyors in the field.

Em/Gpr	\$1700 per day x 1 day (either route 1 or 2)	\$1700 OR
Em/Gpr	\$1700 per day x 1.5 days (both routes)	\$2550
Vacuum Excavations	\$265 per excavation (minimum of 5)	TBD
Mobilization	\$75 per hour x 4 hours	\$300
Overnight fee	lump sum per night	\$135

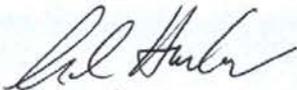
**\* A \$950 deposit is required prior to commencement of services for all first time cliental**

*The above cost is effective for 30 days from the date of this proposal. Costs are subject to change upon unforeseen condition including, but is not limited to: restoration requirements, Maintenance-of-Traffic (MOT) and/or any other requirements set forth by any governing agencies which may have jurisdiction over the project. Any changes will be negotiated accordingly. All service rates include a two man crew. Field time may be reduced by using added crews. Additional crew members are billed out at \$100/man hr.*

*Payment to GHD shall be made no later than 45 days from submission of its invoice, irrespective of Contractor's receipt of payment from Owner.*

Mr. Mickshaw, thank you for allowing us to present this proposal. Should you have any questions please contact me at: **407-658-1030**.

Sincerely,



Al Harlow  
Central Florida Director  
Ground Hound Detection Services, Inc.

Accepted by \_\_\_\_\_

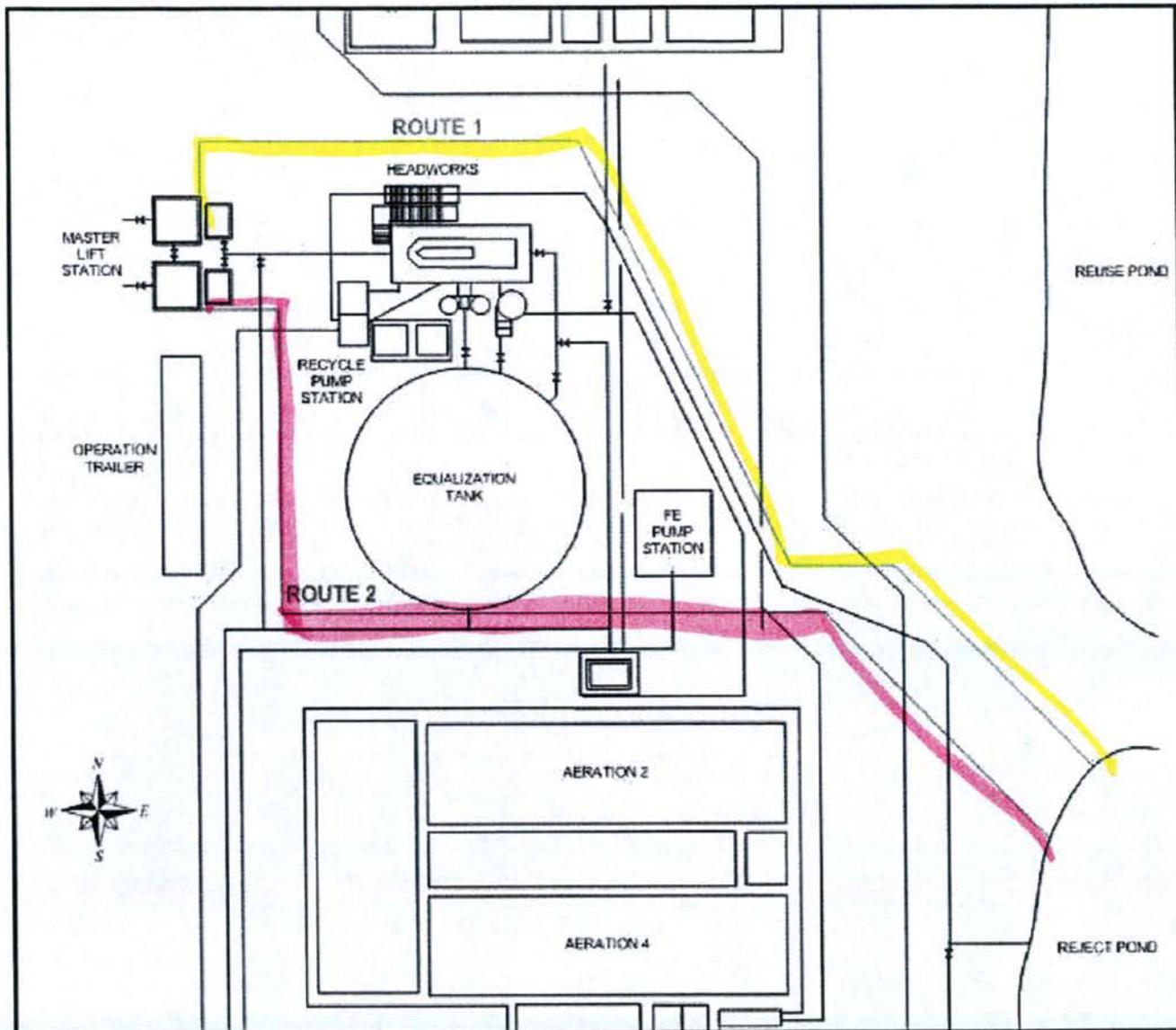
Print Name of Signor \_\_\_\_\_

Title & Company \_\_\_\_\_

Date \_\_\_\_\_

Re: Wastewater Treatment Plant; 2850 Seven Springs Blvd., New Port Richey, FL 34655 (US Water Services Corporation)

Figure 3-1 Site Plan with Alternate Routes to Reject Pond



# MacSweeney Paving, Inc.

POST OFFICE BOX 911  
CRYSTAL BEACH, FL 34681  
OFFICE (727)786-2258 FAX(727)786-5296  
email macpaving@hotmail.com

## PROPOSAL

January 31, 2012

TO: US Water Services

JOB: General asphalt road repair pricing

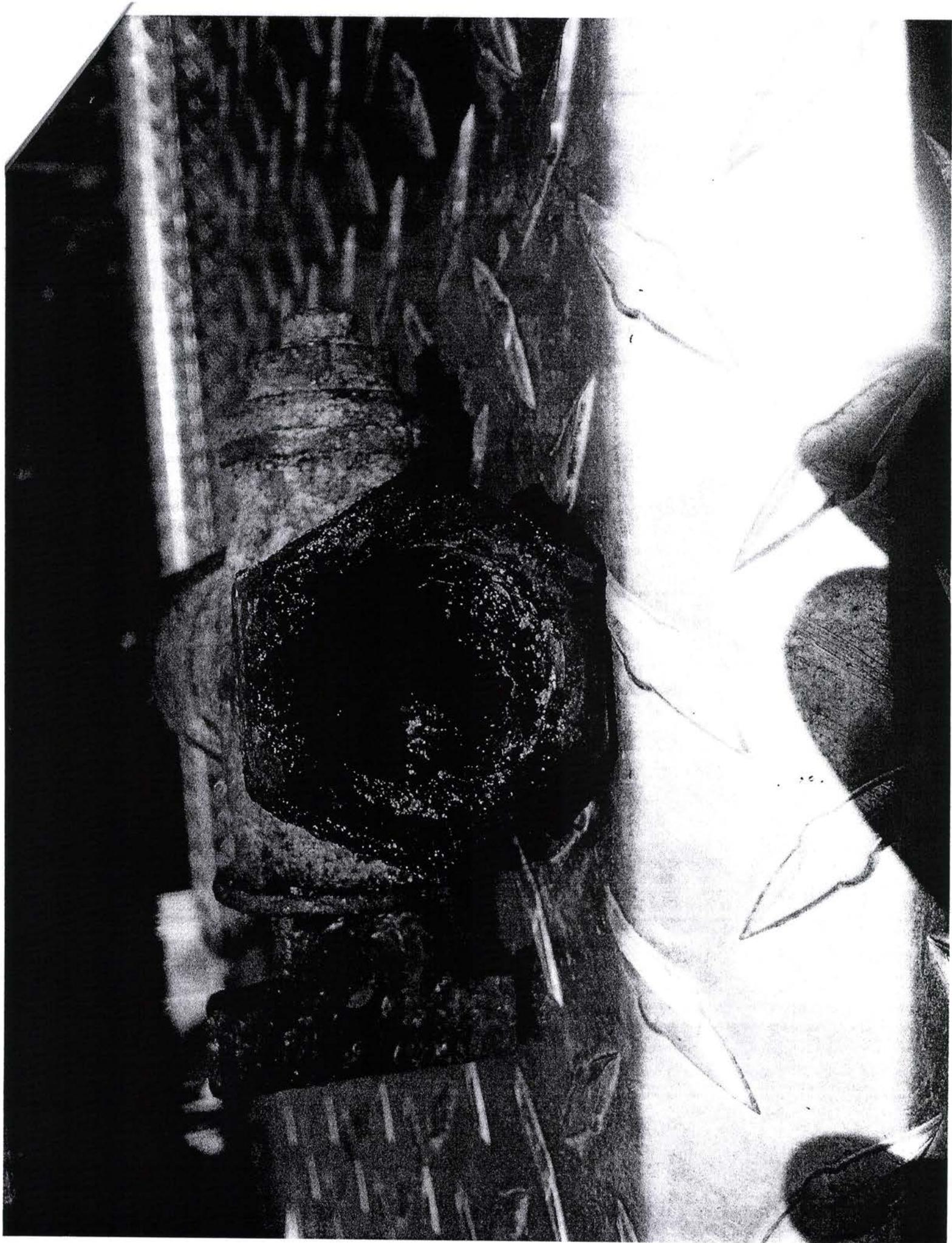
ATTENTION: Mark

- 
1. One ton asphalt at \$175.00 per ton. One ton asphalt will cover 85 square feet at 2".
  2. Milling is \$1000.00 with a 4 hour minimum. Price per patch could be less if 2 or more patches could be ready to mill at the same time.
  3. Above pricing conditional on road patches being cut, based, and ready for asphalt

ALL WORK TO BE PERFORMED IN A PROFESSIONAL MANNER ACCORDING TO STANDARD PRACTICES. OUR WORKERS ARE FULLY COVERED BY WORKERS COMPENSATION INSURANCE.







# U.S. Water<sup>®</sup>

## Services Corporation

4939 Cross Bayou Blvd.  
New Port Richey, FL 34652

# Invoice

Invoice #	804114
Date	11/30/2014
Due Date	12/30/2014
Account #	706
P.O. No.	

Bill To
Brevard Waterworks, Inc. Attn: Joe Gabay 4939 Cross Bayou Boulevard New Port Richey, FL 34652

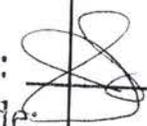
All service pricing anticipates payment by Check or ACH. Due to additional costs incurred, services paid by credit card will require an additional "pass through" 3% processing fee in order to be accepted.

Project
706-13 Service Leak at Oakwood Mims

Date	Description	Qty or Hrs	Unit	Rate	Amount
10/2/2014	Service leak at Oakwood Mims 3450 Brockett Dr. Replaced service and curb stops due to leak in galvanized line. Hand excavated broken quad service, found broken 1" and 1-1/4" galvanized pipe broken in several places. Removed all 4 meters. Hand excavated 4" AC main and found no corp stop. Installed new 1-1/4" corp at saddle. Re-piped all 4 meters, 20L.F. of 1" pipe and fittings. Installed new corp stops, backfill and reinstalled meter boxes. Tradesman Materials and Labor to Complete Scope of Service	6 1	Hours LS	57.91 2,321.06	347.46 2,321.06
10/8/2014	Service leak at 3155 Leigh Rd. Hand excavated and located existing 4" main. Found 4" AC pipe, heavy ground water and had to install kelly well. Finally exposed main to install tapping saddle and tap main. Checked water for chlorine, possible main leak. Installed new service. Backfill and cleaned up area. Materials and Labor to Complete Scope of Service	1	LS	1,811.30	1,811.30

OK @  
COA ~~333~~

12-10-14

Entered:   
COA Code: \_\_\_\_\_  
Approved: \_\_\_\_\_  
Paid: NOT  
Date: 2/5/15

Please remit payment to the above address. We appreciate your business!

Phone #	Fax #
727-848-8292	727-848-7701

<b>Total</b>	\$4,479.82
<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	\$4,479.82

# Oxford Pipeline Inc.

Underground Utilities/Pipe Rehabilitation

P.O. Box 86  
Oxford, FL 34844  
Phone: 352-504-8750 Fax: 352-330-0473  
Email: cbarrette@oxfordpipeline.com  
FL LIC#: CUC1224062

RECEIVED  
NOV 07 2014

BY: .....



Date: Oct. 8, 2014

Customer ID: A101

Prepared by: Craig Barrette

Brevard Water Works  
4939 Cross Bayou Blvd.  
New Port Richey, FL 34652

Invoice # 902-10-08-14-0444

## INVOICE

Oakwood QTP / 3155 Leigh Rd (Mims, FL) Job #706-13

Description	Amount
<p>Hand excavate and locate existing 4" main. Found 4" A.C. pipe, heavy ground water, had to install Kelly well, too much water, finally exposed main to install tapping saddle and tap main. Checked water for Chlorine (possible main leak). Install new service. Backfill and clean up area.</p> <p>System GL: US Water Services Acct <u>5020.1</u> Total \$ <u>1535.00</u> Job # <u>706-13</u> Class <u>M-Rp</u> Billable <input checked="" type="checkbox"/> Non-Billable <input type="checkbox"/> Aprvd _____ Date _____ Entrd <u>[Signature]</u> Date <u>11-7-14</u></p> <p>Man hours= 32 Equipment= Truck w/ tools, &amp; pump. Materials OPI supplied=4" x 1" saddle, 1" corp., 1" poly pipe, &amp; 1" curb stop. Materials= (U.S. Water supplied all other Materials) Service requested by=John Worrell</p>	
Thank you for your business!	TOTAL \$1535.00

Note: net terms 30

AJ & John Worrell

# Oxford Pipeline Inc.

Underground Utilities/Pipe Rehabilitation

P.O. Box 86  
 Oxford, FL 34844  
 Phone: 352-504-8750 Fax: 352-330-0473  
 Email: cbarrette@oxfordpipeline.com  
 FL LIC#: CUC1224062

NOV 07 2014

BY: .....



Date: Oct. 02, 2014

Customer ID: A101

Brevard Water Work  
 4939 Cross Bayou Blvd.  
 New Port Richey, FL 34652

Prepared by: Craig Barrette

Invoice # 902-10-02-14-0443

## INVOICE

Oakwood WTP / 3450 Brockett Dr.

Job #706-13

Description	Amount
<p>Hand excavate broken quad service, found broken 1" &amp; 1 1/4" galv.-pipe broken in several places. Removed all 4 meters. Hand excavated 4" a c main, found no corp. Installed new 1 1/4" corp. at saddle. Re-piped all 4 meters 20 L.F. of 1" Pipe and fittings. Installed new curb stops. Backfill and reinstalled meter boxes.</p>	
<p>System GL: US Water Services                      Acct <u>5020.1</u> Total \$ <u>1967.00</u>                      Job # <u>706-13</u> Class <u>RR-R6</u>                      Billable <input checked="" type="checkbox"/> Non-Billable <input type="checkbox"/>                      Aprvd _____ Date _____                      Entrd <u>[Signature]</u> Date <u>11-7-14</u></p>	
<p>Man hours= 34                      Equipment= Truck w/ tools</p>	
<p>Materials OPI supplied=1" Poly, 1 1/4" corp. 2-1" brass pack joint tees, 4-1" curb stops, 4-meter spuds, and misc. fittings.</p>	
<p>Materials= (U.S. Water supplied all other Materials)                      Service requested by=John Worrell</p>	

Thank you for your business!

TOTAL \$1967.00

Note: net terms 30

AJ & John Worrell

Name: Richard Sullo  
Date: 10/2/2014  
Hours: 7:30am 8:30am  
Hours: 8:30am 2:30pm  
Hours: 2:30pm 3:30pm  
Hours: \_\_\_\_\_  
Hours: \_\_\_\_\_  
Hours: \_\_\_\_\_

*6 hours*

JOB NO: 306-6  
JOB NO: 706-13  
JOB NO: 306-6  
JOB NO: \_\_\_\_\_  
JOB NO: \_\_\_\_\_  
JOB NO: \_\_\_\_\_

Is Project Complete Today? Yes  No

JOB Name: \_\_\_\_\_  
JOB Name: Service Leak Oakwood Mims  
JOB Name: \_\_\_\_\_  
JOB Name: \_\_\_\_\_  
JOB Name: \_\_\_\_\_  
JOB Name: \_\_\_\_\_

Start /End Time (AM or PM)  
Fr: 7:30am To: 3:30pm

Break Time Used

Total Hrs Worked  
8

REASON WE ARE ON SITE TODAY:

Signed Lump Sum Proposal \_\_\_\_\_ Emergency Call \_\_\_\_\_

Time & Material Project \_\_\_\_\_ NOTE:  
Project: \_\_\_\_\_

Is this an Abnormal Event? Yes \_\_\_\_\_ NO \_\_\_\_\_ If so call office: 239-543-1005 / Toll Free 866-753-8292

WORK PERFORMED TODAY:

Customer service

replaced service our side and curb stops due to leak in galvanized line in Oakwood Mims Bervard Co was repaired by contractor

MATERIALS PURCHASED or DELIVERED TODAY:

Vendor Name	Description of Items	Ticket #	Quantity	Reordered?	\$\$ Amount \$\$
from stock					
	2- 1 inch male pack joint adaptors				\$24.00

MATERIALS USED FROM TRUCK OR OTHER COMPANY STOCK TODAY:

Taken From	Description of Items	Quantity	Reordered?
inventory			
		1967 - #2321 06	y n
		1535 - #1811 30	y n

EQUIPMENT RENTED TODAY:

Item #1 \_\_\_\_\_ From: \_\_\_\_\_ Cost: \_\_\_\_\_  
Item #2 \_\_\_\_\_ From: \_\_\_\_\_ Cost: \_\_\_\_\_

COMPANY OWNED EQUIPMENT USED TODAY:

Item #1 colirado From: \_\_\_\_\_ Cost: \_\_\_\_\_  
Item #2 \_\_\_\_\_ From: \_\_\_\_\_ Cost: \_\_\_\_\_

SUBCONTRACTORS and VENDORS ON SITE TODAY:

Name: \_\_\_\_\_ Purpose: \_\_\_\_\_  
Name: \_\_\_\_\_ Purpose: \_\_\_\_\_

ANY VISITORS TO SITE? Yes \_\_\_\_\_ (if so list) No \_\_\_\_\_ List: \_\_\_\_\_

WEATHER CONDITIONS: Fair:  Rain: \_\_\_\_\_ Ground Water: \_\_\_\_\_ Other: \_\_\_\_\_

ANY PROBLEMS WITH COMPANY VEHICLES? \_\_\_\_\_

ADDITIONAL NOTES: \_\_\_\_\_

SIGNATURE: Richard Sullo Date: 10/2/2014

Supervisor's Signature \_\_\_\_\_ Date: 10/2/2014

*Sullo*  
*\$4,479.82*