



# CITY COUNCIL AGENDA ITEM

REQUESTED COUNCIL MEETING DATE 5-20-08

**SUBJECT:** Change Order #1 to the Professional Pipeline Services Purchase Order for Additional Pigging of Major Sanitary Sewer Force mains

**DEPARTMENT:** PUBLIC UTILITIES

**RECOMMENDED MOTION:** To authorize Change order #1 for \$34,443 to be issued to Professional Piping Services, Inc., under our existing purchase order, waiving the normal bidding procedures, and piggy-backing a competitively bid contract with Pinellas County for sanitary sewer pipeline rehabilitation work, and authorizing the Mayor and City Manager to sign and execute all required contract documents.

**SUMMARY:**

Last year we contracted with Professional Pipeline Services piggybacking an existing competitively bid contract with Pinellas County, Florida. This work authorization was to pig the sewer forcemain from the Lacosta Lift Station to the Herbert – Nova Lift Station and to also pig the forcemain from the Southwinds Lift Station to Willow Run Blvd. At that time they ran into some difficulty in pigging the 10" force main where it ties into the Willow Run forcemain due to the existing condition of our Willow Run force main. This was evidenced by the higher than anticipated operating pressures recorded along this section of the forcemain during the pigging/cleaning process. In response to that issue we then requested that they submit a written proposal, attached, to come back and clean the additional section of 16" forcemain which begins at the Taylor Road and eventually terminates after almost 4 miles near the Police Station.

Sewage force mains should be cleaned every 5 – 10 years in order to insure that excessive sediments do not accumulate and create sewage blockages. Partial or complete sewage blockages may contribute to excessive pipeline pressures which in turn may cause pipes and pump station failures. These higher operating pressures also will contribute to higher electrical bills and eventually could contribute to overall failures of our sewer collection system. Professional Piping Services, Inc. has successfully completed pipeline rehabilitation work for us in past years. They specialize in the pigging method to clean and rehabilitate pressure mains and are currently the "pigging experts" in this field. This quote is consistent with and equivalent with the unit pricing provided to us last year under our existing purchase order. We request your approval at this time to waive the normal purchasing and bidding procedures and approve Change Order #1 to the Professional Piping Services, Inc. Purchase Order in an amount not to exceed \$34,443 for the required sanitary sewer system rehabilitation efforts. Funds are currently available in the Sewer System Rehabilitation Project #URH001 to cover this required work.

**ATTACHMENTS:**  Ordinance  Resolution  Budget Resolution

Other  Support Documents/Contracts Available for Review in the Public Utilities Office

DEPARTMENT HEAD	<i>Rogers</i>	Fred W. Griffith	<i>Fred W. Griffith</i>	Date	5/20/08
FINANCE DEPARTMENT	<i>W. J. Smith</i>	Approved as to Budget Requirements		Date	
CITY ATTORNEY	<i>W.A.</i>	Approved as to Form and Legality		Date	N/A
CITY MANAGER	<i>W.A.</i>	Approved Agenda Item For:			5/20/08

**COUNCIL ACTION:**  Approved as Recommended  Disapproved  Tabled Indefinitely  
 Continued to Date Certain  Approved with Modification:

# PROFESSIONAL PIPING SERVICES, INC.

*The Piping System Cleaning Specialists*

Certified Underground Utility Contractor  
License No. CU-C055717

February 11, 2008

Mr. Fred Griffith  
Public Utilities Engineer  
City of Port Orange  
1000 City Center Circle  
Pt Orange, FL 32129

Dear Fred,

Back in September of 2007 we had cleaned 2.12 miles of force main piping starting at LaCosta. We had begun the cleaning of another section when an obvious inline problem was discovered in the Willow Run section of the system which called for a change in the original planning as to which systems now required cleaning and in which sequence. To hopefully clarify what happened, I am enclosing a copy of a letter I sent to Rob Poust on September 28, 2007, which may help to explain what occurred at that time.

On October 22, 2007, you called my office and said that you wanted to postpone continuing this work until after the first of the year.

Well, here is it February and I want to suggest that we come back to restart this urgent rehabilitation of these force mains, i.e.,

- a) Willow Run - 19,350 plus or minus linear feet
- b) Completion of the 11,000 plus or minus linear feet of 10" force main.

The work to start on Monday, March 17, 2008. This work should be still covered by our purchase order #057584.

I hope our suggested time to return fits in with your scheduling. If not just give me a holler and we will try to accommodate your timing requirements.

Thank you and I look forward to hearing from you soon.

Cordially,



Roger M Cimborra, Sr.  
General Manager

P. O. Box 7337, Zephyrhills, Florida 33543

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# PROFESSIONAL PIPING SERVICES, INC.

*The Piping System Cleaning Specialists*

Certified Underground Utility Contractor

License No. CU-C055717

September 28, 2007

Mr. Rob Poust  
Line Maintenance Supervisor  
City of Pt Orange  
1000 City Center Circle  
Port Orange, FL 32129

Dear Mr. Poust,

Here is a brief synopsis of what has occurred and what we found since the cleaning and restoration to maximum flow capacity of section of the Cities wastewater force main piping systems was begun on Monday, September 21, 2007.

1. 11,200 plus or minus linear feet, (2.12 miles), of 8", 10" and 12" piping starting at LaCosta was successfully rehabilitated and completed as demonstrated by the following data.

	<b>PRE-CLEANING</b>	<b>POST CLEANING</b>
Static Pressure	26 PSI	0 PSI
Residual Pressure	37-42 PSI	28-32 PSI

2. The second section contracted to be done, i.e., 11,000 plus or minus linear feet, (2.08 miles), of 10" piping was started with one only exploratory 8" swab sent completely through the system.

**NOTE:** We are confident that after extensive checking this first swab is in the 16" portion of the system where it poses absolutely no present or future threat to the operation of the system.

3. Immediately after starting the cleaning of this second section it was apparent that there was a major problem in the Willow Run portion of the system. When flow was directed into this section of the system, pressures rose dramatically, i.e., 0-8 PSI went to over 40 PSI and flow volume was reduced significantly as well.

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Changing and checking these flow patterns by opening and closing the valving simply confirmed that this was the situation, as you know first hand. There can be no question that the 12"-16" piping is very dirty as demonstrated by the following data.

	<b>SYSTEM IN MARCH 1998 AFTER CLEANING</b>	<b>CURRENT DATA CHECKED SEPTEMBER 2007</b>
Static	0-2.5 PSI	14-16 PSI
Residual	9-12 PSI	24-26 PSI

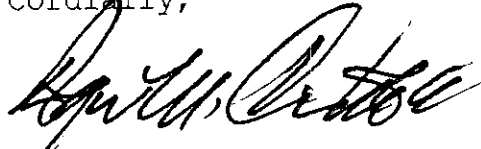
4. The cleaning of the 10" force main cannot be completed until the Willow Run piping will allow it. Therefore we are strongly recommending that this be done as soon as possible.
5. We will not expect the City to pay us for work not completed. Accordingly we are submitting an invoice as follows.
  - a) 11,200' X 8" Payment in full, i.e.,  
11,200' X 8" @ \$1.78/ft - \$19,936.00
  - b) 11,000' X 10" payment of half i.e.,  
11,000' X 10" @ \$1.78 - \$19,580.00 @ 50% \$9,790.00

Amount Due - \$29,726.00
6. We are proposing to clean the 19,350 ~~plus or minus~~ linear feet of the Willow Run system for the same unit pricing as we have charged for the smaller diameter piping, i.e., \$1.78/ft., and with the Willow Run system cleaned we will then be able to complete the cleaning of the 10" piping for the remainder of the contracted amount of \$9,790.00.  $+ 1.78 = \underline{\$39,473}$
7. If the City will agree to the necessary cleaning of the Willow run system we will then schedule it to be done, starting Monday, October 22, 2007.
8. I have received today, a somewhat confusing purchase order, copy enclosed. The purchase order number 057584, is correct, but it is apparently in turn a copy of the purchase order issued to us in 2000. Plus it's dated 2-22-07. Could you check and find out what's what with this purchase order?

*JJ*

Thank you and I look forward to hearing from you soon.

Cordially,

A handwritten signature in black ink, appearing to read "Roger M. Cimborra". The signature is written in a cursive style with a large initial "R" and "C".

Roger M Cimborra  
General Manager

REPORT  
CITY OF PORT ORANGE

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The following is a report on the poly pig cleaning of the Willow Run wastewater force main for the City of Port Orange.

The piping cleaned consisted of 10,600' of twelve inch PVC and DIP and 8,750' of connecting sixteen inch PVC and DIP, for a total of 19,350', (3.66 miles).

This system was cleaned in its entirety in one contiguous operation. Actual field work was started on Monday, March 9, 1998 and completed on Tuesday, March 17, 1998.

The results of the cleaning of this force main are as follows.

	<u>PRE-CLEANING</u>	<u>POST CLEANING</u>
Static Head Pressure	9-12 PSI	0-2.5 PSI
Residual or Operating Pressure	17-22 PSI	9-12 PSI

NOTE: As this force main receives and transports the flow from thirteen separate lift stations, inline flow velocity measurements could not be accurately established due to the variables created by this field condition. As the conduits are now cleaned and restored to their maximum flow capacity and inline resistance to flow has been eliminated, this improvement should result in consequential reductions in pump(s) run time with a corresponding decrease in energy usage.