



BURGESS & NIPLE

Mr. George Jackson
Water Resources Engineer
City of Gahanna
200 South Hamilton Road
Gahanna, OH 43230

Re: Proposal No. 03-7011
College Park/Heritage Subdivision
2-Step Joint Grouting Program Inspection

April 24, 2003

Dear Mr. Jackson:

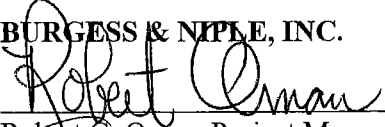
Burgess & Niple, Limited
5085 Reed Road
Columbus, OH 43220
614 459.2050
Fax 614 451.1385

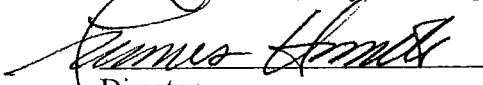
The Physical Manhole Inspection Program and Flow Monitoring Program that were undertaken during April and May, 2002 provided little evidence to substantiate that flooded basements in the above referenced Subdivision are a direct result of stormwater intrusion into the Subdivision's sanitary sewer system. On February 3, 2003 approximately 2,537 feet of sanitary sewer were actually televised which substantiated the suspicion that obstructions were present in the form of extensive root growth intrusion. Ten sections of sewers totaling 2,342 linear feet were cleaned and retelevised on March 7 and 13, 2003. All the light, medium and heavy root growths in the main sewer joints were removed. Root fragments were still observed in 58 pipe joints. Root growth was also observed in 11 laterals that were identified in the report entitled *Sewer Cleaning and Televising Program* dated April 4, 2003.


In order to prevent the regrowth of roots in these designated sections of sanitary sewers, it is recommended that the City of Gahanna undertake a 2-Step Joint Grouting Program. The first step would entail the application of an aquatic foaming herbicidal formula that would be applied in these designated sewer sections in July or August of 2003 with the step two phase, pipe joint grouting, being accomplished in March or April of 2004.

The cost for Burgess & Niple, Inc. to accomplish the 2-Step Joint Grouting Program would not exceed \$33,000.

Respectfully,

BURGESS & NIPLE, INC.

Robert G. Oman, Project Manager


Director


Director

CITY OF GAHANNA, OHIO

Date

EXHIBIT A



BURGESS & NIPLE

Mr. George Jackson
Water Resources Engineer
City of Gahanna
200 South Hamilton Road
Gahanna, OH 43230

Re: Proposal No. 03-7012
College Park/Heritage Subdivision
Expanded Sewer Cleaning and Televising
Program

April 24, 2003

Burgess & Niple, Limited

5085 Reed Road
Columbus, OH 43220
614 459.2050
Fax 614 451.1385

Dear Mr. Jackson:

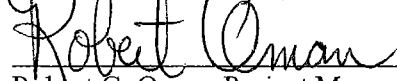
On February 3, 2003 approximately 2,537 feet of certain designated sanitary sewers in the College Park/Heritage Subdivision were actually televised which substantiated the suspicion that obstructions were present in the form of extensive root growth intrusion. Ten sections of sewers totaling 2,342 linear feet were cleaned and retelevised on March 7 and 13, 2003. All the light, medium and heavy root growths in the main sewer joints were removed. Root fragments were still observed in 58 pipe joints. Root growth was also observed in 11 laterals that were identified in the report entitled *Sewer Cleaning and Televising Program* dated April 4, 2003.

In order to minimize the potential of other basement flooding incidents within the Subdivision, it is recommended that the City of Gahanna undertake an expanded sewer cleaning and televising program pertaining to the remaining sections of sanitary sewers within the College Park/Heritage Subdivision.

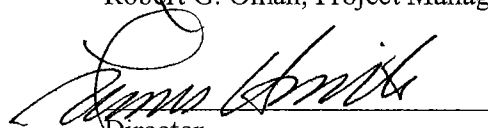
The cost for Burgess & Niple, Inc. to solicit bids and to perform the Expanded Sewer Cleaning and Televising Program on the remaining 20,000 linear feet of sanitary sewers in the College Park/Heritage Subdivision would not exceed \$71,000.

Respectfully,

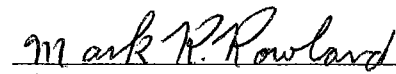
BURGESS & NIPLE, INC.


Robert G. Oman, Project Manager

CITY OF GAHANNA, OHIO


Director

_____ Date


Director