

January 26, 2006

To: John Szerlag, City Manager

From: Brian Murphy, Assistant City Manager / Services
Steve Vandette, City Engineer
Timothy Richnak, Public Works Director

Subject: **Agenda Item** - Informal Quotation Process
Award of Emergency Water Main Repair at Maple and Research Drive

RECOMMENDATION

City Management recommends that City Council authorize emergency repair work for the installation of a 12" water gate valve and replacement of a leaking 24" X 12" water tapping sleeve and valve at Maple Road and Research Drive. This repair work would be done on time and material basis for an estimated cost of approximately \$72,000, which includes labor, materials, traffic control, and temporary repair of road and sidewalk.

Due to the nature of this work, it is possible that unforeseen underground conditions may exist that could cause the scope of the project to be expanded. Due to these unforeseen conditions, such as pipe joint location, deterioration of the 24" and/or 12" water main, relocation or protection of other utilities, soil conditions, etc. we also seek authorization to expend additional funds up to 25% (\$18,000) of the estimated project cost. The total expenditure authorized requested is \$90,000.

SUMMARY

The Water and Sewer Department recently discovered a leaking tapping sleeve and valve on a 24" concrete water main at the intersection of Maple Road and Research Drive. The 24" water main runs east and west, is approximately 14' in depth and is located in the green belt area at the northwest corner of the intersection. Inspection has determined that the tapping sleeve and valve requires replacement.

The repair work is expected to take 4 to 5 days, which is longer than a typical water main repair due to the pipe's location, type of pipe, large size, deep burial depth and it's close proximity to many fiber optic utility lines and a utility pole. In order to maintain fire protection and water service to the surrounding businesses, it will be necessary to first install an additional water gate valve and well north of this location on a 12" water main.

In the three weeks that has elapsed since the discovery of the leaking tapping sleeve and valve, the volume of water loss has increased. We do not expect this situation to

turn into a major leak or main break, but there is an increased potential that one of these might occur. Icing, due to water leaking onto the road and winter weather conditions, makes this a potentially dangerous situation. The 24" water main has been isolated to reduce water loss and businesses are being back fed water from another connection to the 12" water main. At this time we can adequately serve water to the area.

We have concerns that by the time we put a bid package together, conclude the bidding and approval process and start construction; 3 to 4 months will have passed. In addition to the potential for the situation to deteriorate, the expense of labor to monitor and secure the site area for safety reasons will outweigh the benefit of the bid process. Additionally and more importantly, we also may not be able to adequately provide water service and fire protection to the area as volume and pressure requirements increase in the spring.

The Engineering and Public Works departments consider the repair specialty work, which requires a contractor with considerable experience with large diameter concrete water pipe and deep excavations. The city currently has two such contractors under contract that are qualified and experienced to perform this type of work. Troelson Contracting has declined to give a quote. Dan's Excavating has provided labor and equipment rates at an estimate of \$72,000 to complete the scope of work. The rates were reviewed by the Engineering department and found to be competitive with the prevailing labor and equipment rates for our area.

BUDGET

Funds are budgeted in the Water and Sewer budget account # 548.7801.010