



## COUNCIL WORKSHOP ITEM

**ITEM:** Irrigation System Installation in Phase III of CBD Redevelopment

**DATE:** January 18, 2001

**PREPARED BY:** Kerstin G. von der Heide, Village Forester

**PURPOSE:** Review recommendation and place on agenda for Council approval

### **DISCUSSION:**

Within the planting areas located in Phases I and II of the CBD Redevelopment project, irrigation systems were installed last spring. These drip style irrigation systems, composed of tubing with emitter holes, performed well all summer and into fall. This coming spring, staff is requesting the same type of irrigation systems be installed in the planting beds in Phase III. Similar to what has already been installed in Phases I and II, each bed or series of beds in Phase III would have a battery-operated control box controlling the timing and distribution of water to the irrigation tubing within an area. A decorative stone approximately 3-foot by 2-foot would cover the control box and legally required backflow preventer with plantings to obscure the stone. At each stone, there will be quick connects for water hoses and other water needs such as during Heritage Festival. Benefits of a drip irrigation system include the ability to put water closest to plant roots for more efficient absorption, keep soil at a more constant moisture level, reduce evaporation and waste of water sprayed onto foliage, and eliminate any overspray of water onto surrounding sidewalks and cars. Drip irrigation also eliminates showering unsuspecting pedestrians if gusty winds or malfunctioning irrigation heads were to occur.

The following lists the price quotes that staff obtained for installing a new drip irrigation system in the planting beds in Phases III. The lowest quote is from Controlled Irrigation, a company who performed well while repairing the irrigation system at Village Hall, and who also installed the systems in Phases I and II.

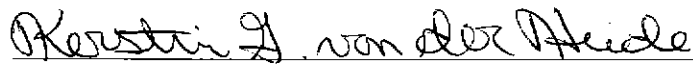
Controlled Irrigation	\$15,575.00
Alpine Irrigation Co	\$17,305.00
Goodenough Inc	\$17,975.00

For the systems already installed, staff has found the annual maintenance costs to be as low as expected and in the range of \$2,000. The drip tubing is constructed out of hard rubber, which is durable and can be sectioned and fitted should it be damaged. Other costs came from batteries and annual testing and certification of the backflow preventers. Staff needs were generally a few hours every week for one person to inspect the system, reset controllers and make any corrections as needed.

**RECOMMENDATION:**

Public Works staff is recommending that Village Council approve the proposed irrigation systems for Phase III and award the work to Controlled Irrigation in the amount of \$15,575.00. I have discussed these recommendations with Jack Bajor, Dave Conley, and Steve Ruffolo, and they are all in agreement. I have discussed budget numbers with Marty Lyons, and he indicates there are enough funds available in the TIF account for other improvement (107.529.0000.5711).

Please let me know if any additional data is needed.



Kerstin G. von der Heide