



## **Staff Report**

---

RESOLUTION APPROVING PLANS AND SPECIFICATIONS, AUTHORIZING ADVERTISEMENT FOR SEALED BIDS, APPROVING AWARD OF CONTRACT TO THE LOWEST RESPONSIBLE BIDDER FOR AN AMOUNT NOT TO EXCEED \$680,000, APPROVING A CONSTRUCTION CONTINGENCY NOT TO EXCEED \$68,000 AND AUTHORIZING THE CITY MANAGER TO EXECUTE A CONTRACT FOR THE SANITARY SEWER REHABILITATION PROJECT – PIPELINING AND SPOT REPAIR WITH PIPE BURSTING – BASINS 7 AND 8, CITY CONTRACT NUMBER 485

Honorable Mayor and Council Members:

### **Summary**

The Department of Public Works staff requests City Council approval for City Contract Number 485, the Sanitary Sewer Rehabilitation Project, Pipelining and Spot Repair with Pipe Bursting, Basins 7 and 8, authorization to advertise this project for bid and award this project to the lowest responsible bidder. Staff also requests approval of a construction contingency equal to ten percent of the contract award price.

### **Background**

The City of Belmont, Department of Public Works is managing a City-wide sanitary sewer assessment and rehabilitation program to improve the sewer system's structural integrity and capacity and reduce infiltration and inflow of stormwater. Public Works began this program in 1991 with a sewer condition assessment and over the past 15 years completed the first round of sewer improvements.

The City has been routinely video inspecting existing sewer lines to identify defects for future rehabilitation projects to prevent sanitary sewer overflows and deterioration in order to extend the service life of this publicly owned asset, as well as to comply with current and anticipated future public health and environmental regulations.

Lining of original clay sewer pipe with thin PVC plastic or resin-impregnated fiber is used to rehabilitate sewer mains where the existing pipe is still holding its shape, but has cracks, open joints and root intrusion. The pipe is cleaned and televised prior to lining and any laterals protruding into the interior of the sewer main are cut off to make a smooth surface for the liner.

For installation, the liner material is heated to give it sufficient flexibility and pressurized while

warm to form it tightly against the existing clay pipe. Once cooled, it sets to a rigid, strong, and smooth lining that stabilizes further deterioration of the clay pipe and generally improves the flow and capacity of the sewer main. Lateral connections are reopened by grinding out the liner wall. The liner has an expected useful life of 50 years or more, eliminating the need for further rehabilitation for decades.

### **Discussion**

The sewer lines located in Basins 7 and 8 are among the oldest lines within the City of Belmont. In 1995 and 1999, the City conducted sewer pipelining and spot repair rehabilitation projects in these basins.

The pipelining and spot repair with pipe bursting for Basin 7 will take place in the Chula Vista neighborhood along Maywood Drive. Basin 8 the repairs are east of Alameda de las Pulgas and north of Ralston Avenue to the City limits.

City staff have video-inspected the sanitary sewers in Basins 7 and 8 to identify defects requiring repairs. The design engineer analyzed the inspection results and designed a pipelining/pipe bursting/spot repair rehabilitation project to take place in this fiscal year.

However, due to budget constraints, the project's scope of work needed to be decreased to match the available funding. Therefore, City staff divided the project into three separate projects with the intention to address the worst sewer lines first. City staff conducted some sewer spot repairs in-house to reduce the project cost. Most of the sewer pipes will be pipelined with a spot repair prior to lining. Pipe bursting will be done on sewers in deteriorated condition, while others in poor condition outside of the Basins 7 and 8 boundaries will be rehabilitated.

The proposed bid opening date is April 9, 2008. Once awarded, construction can start in May and continue through Fall 2008, depending on the weather.

### **General Plan/Vision Statement**

This project is consistent with the General Plan Public Facilities and Services Goals section (Paragraph 2041), which states "To provide public services at a level adequate to ensure public safety, health and welfare at the lowest possible cost; to establish and maintain all essential public services and facilities in a manner that ensures continued operation in time of emergency."

### **Fiscal Impact**

The engineer's estimated cost for City Contract Number 485 is \$680,000. Funding will be obtained from the CIP FY 2007/08 Project Account 503-4326-7057-9030. Another \$68,000 will be reserved as a ten percent construction contingency to be used as needed by to address unforeseen conditions that would prevent contract completion.

**Public Contact**

Publication and posting of City Council agenda.

**Recommendation**

It is recommended that the City Council approve plans and specifications, authorize advertisement for sealed bids, approve award of contract to the lowest responsible bidder for an amount not to exceed \$680,000, approve a construction contingency not to exceed \$68,000, and authorize the City Manager to execute a contract for the Sanitary Sewer Rehabilitation Project – Pipelining, and Spot Repair with Pipe Bursting, Basins 7 And 8, City Contract Number 485

**Alternatives**

1. Take no action.
2. Refer back to staff for further information.

**Attachments**

- A. Resolution

Respectfully submitted,

---

Bozhena Palatnik  
Associate Civil Engineer  
Phone: (650) 595-7463  
bpalatnik@belmont.gov

---

Raymond E. Davis III, PE, PTOE  
Director of Public Works

---

Jack R. Crist  
City Manager

RESOLUTION NO. \_\_\_\_\_

**RESOLUTION APPROVING PLANS AND SPECIFICATIONS, AUTHORIZING ADVERTISEMENT FOR SEALED BIDS, APPROVING AWARD OF CONTRACT TO THE LOWEST RESPONSIBLE BIDDER FOR AN AMOUNT NOT TO EXCEED \$680,000, APPROVING A CONSTRUCTION CONTINGENCY NOT TO EXCEED \$68,000 AND AUTHORIZING THE CITY MANAGER TO EXECUTE A CONTRACT FOR THE SANITARY SEWER REHABILITATION PROJECT – PIPELINING AND SPOT REPAIR WITH PIPE BURSTING, BASINS 7 AND 8, CITY CONTRACT NUMBER 485**

**WHEREAS**, as part of the Citywide sanitary sewer rehabilitation program, Basins 7 and 8 in the Country Club, Cipriani and Chula Vista Neighborhoods are scheduled for rehabilitation; and,

**WHEREAS**, the pipelining and spot repair with pipe bursting for Basin 7 will take place in the Chula Vista neighborhood along Maywood Drive and Basin 8 repairs are east of Alameda de las Pulgas and north of Ralston Avenue to the City limits; and,

**WHEREAS**, the Department of Public Works has prepared plans and specifications for this work; and,

**WHEREAS**, the Sewer Enterprise Fund has been budgeted in Fiscal Year 2008 for this project.

**NOW, THEREFORE, BE IT RESOLVED that:**

1. City Council approves City Contract Number 485 plans and specifications.
2. City Council authorizes advertisement for sealed bids for this work.
3. City Council approves award of contract to the lowest responsible bidder for an amount not to exceed \$680,000, and approves a ten percent construction contingency not to exceed \$68,000.
4. City Council authorizes the City Manager to execute a contract to the lowest responsible bidder.
5. Funding shall be from the FY2007/08 budget, project account 503-4326-7057-9030.

\* \* \* \* \*

I hereby certify that the foregoing Resolution was duly and regularly passed and adopted by the City Council of the City of Belmont at a regular meeting thereof held on March 11, 2008 by the following vote:

AYES, COUNCILMEMBERS: \_\_\_\_\_

NOES, COUNCILMEMBERS: \_\_\_\_\_

ABSTAIN, COUNCILMEMBERS: \_\_\_\_\_

ABSENT, COUNCILMEMBERS: \_\_\_\_\_

\_\_\_\_\_  
CLERK of the City of Belmont

APPROVED:

\_\_\_\_\_  
MAYOR of the City of Belmont