



CITY COUNCIL AGENDA REPORT

MEETING DATE: August 2, 2004

ITEM NUMBER:

SUBJECT: TEWINKLE PARK LANDSCAPE IRRIGATION MAINLINE REHABILITATION - CITY PROJECT NO. 04-10

DATE: JULY 22, 2004

FROM: PUBLIC SERVICES DEPARTMENT/ENGINEERING DIVISION

PRESENTATION BY: WILLIAM J. MORRIS, DIRECTOR OF PUBLIC SERVICES

FOR FURTHER INFORMATION CONTACT: FARIBA FAZELI, ACTING CITY ENGINEER,
(714) 754-5343

RECOMMENDATION:

1. Approve Budget Adjustment No. 05-008 (Attachment 1) in the amount of \$200,000.
2. Award a construction contract to P & D Landscape Management Services, 999 Town & Country Road, 4th Floor, Orange, CA 92868, in the amount of \$224,445 (base bid only).
3. Authorize the Mayor and the Deputy City Clerk to execute the Public Works Agreement.

BACKGROUND:

In the 2002-03 Fiscal Year Budget, Maintenance Services requested and was granted funding in the amount of \$75,000 to design and install a new irrigation mainline at TeWinkle Park. The existing irrigation mainline system is a combination of pipelines that existed when the property was part of the Santa Ana Airbase and additional lines that were installed when the park was constructed in the 1960's. Many of the irrigation mainlines are at unknown depths and locations. Some are made of cast iron, while others are concrete/asbestos pipes. The cast iron lines are becoming very difficult to repair. The newer lines (1960's) are plastic (PVC) pipe. Due to the age and the fragile condition of the entire mainline system, park maintenance staff experiences frequent pipe leaks/breaks. When this occurs, the entire park mainline must be shut down. There are no isolation valves throughout the park to allow for just one area to be controlled. Frequently, when the system is re-energized, another leak occurs due to the strain of re-pressuring the old pipelines. Locating and repairing mainline leaks requires the entire park irrigation system to be shut down and drained. This is very time consuming and usually creates some damage to turf, when no water is applied for several days. Complicating the matter, some sections of the mainline have been found to be over ten feet below the surface, requiring expensive excavation and shoring techniques.



CITY OF COSTA MESA

CALIFORNIA 92628-1200

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FROM THE OFFICE OF THE CITY CLERK

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