



CITY OF MARTINEZ

**CITY COUNCIL AGENDA
July 23, 2008**

TO: Mayor and City Council
FROM: City Engineer
SUBJECT: Muir Oaks Reservoir Repair
DATE: July 11, 2008

RECOMMENDATION:

Adopt resolution allocating \$175,000 of Water Reserve funds to repair the Muir Oaks Reservoir.

BACKGROUND:

Muir Oaks Reservoir is a 0.5 million gallon pre-stressed concrete tank built in 1961 located on Kendall Court in Muir Oaks. During a routine inspection of the reservoir, Water Treatment Plant staff discovered sprawling of stucco near the top of the tank wall at several locations. Operating water levels were lowered in the tank to reduce stress at the top of the tank. At the request of staff, DYK, a company with expertise in concrete tank design and construction, performed a detailed inspection of the tank. They found several pre-stressed wires were corroded and broken. DYK provided four options the City should explore to correct the problem. The repairs ranged from a “band-aid” stop gap repair to complete replacement of the tank ranging in cost from \$50,000 to replacement at over \$1,000,000.

Due to the age of the tank, staff does not believe it is prudent to invest large sums of money for a major overhaul. The Water System Master Plan anticipates this tank to be taken out of service in ten to fifteen years. Staff believes with an adequate repair the tank can be restored to its original design and capacity. The proposed repair would include clamping of existing sound wires to the wall of the tank to prevent further unwinding. Manually applied wire strand tendon units would be applied where the broken wires are removed. Shotcrete will be applied once the tendons are installed to prevent future corrosion.

DYK designs and builds new tanks only. They indicated the City would need to find another consultant to provide plans and specification for the repair. The City solicited a proposal from Jeff Lewandowski, PHD, PE to provide this work. The City has worked with Mr. Lewandowski on several other projects. He formed a team of experts to design the repair of our tank and inspect the specialty work with the assistance of our Construction Division. If the City Council adopts the attached resolution a standard consultant agreement will be executed by the City Manager. It is anticipated the repair work would be completed prior to winter.

FISCAL IMPACT:

An allocation of \$180,000 from water reserves is required to complete the project. The existing fund balance is approximately \$3,700,000.

Projected expenses:

Design	\$ 35,000
Administration	\$ 5,000
Construction	\$110,000
Inspection	<u>\$ 25,000</u>
Total	\$175,000

ACTION:

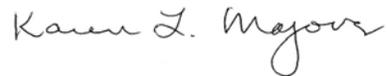
Motion to adopt a resolution allocating \$175,000 of Water Reserve funds to repair the Muir Oaks Reservoir.

APPROVED BY:



City Manager

APPROVED BY:



Assistant City Manager Community & Economic Development

RESOLUTION NO. -08

ALLOCATING \$175,000 WATER RESERVE FUNDS
FOR THE REPAIR OF MUIR OAKS RESERVOIR

WHEREAS, the City of Martinez owns, operates and maintains Muir Oaks Reservoir (Reservoir); and

WHEREAS, the Reservoir is in need of critical repairs to prevent further deterioration; and

WHEREAS, the reservoir can be restored to its original design with a proper repair; and

WHEREAS, City Council of the City of Martinez desires to restore this critical facility to its original design.

NOW, THEREFORE, IT BE RESOLVED by the City Council of the City of Martinez, that \$175,000 be allocated from Water Reserve funds for the repair of the Muir Oaks Reservoir.

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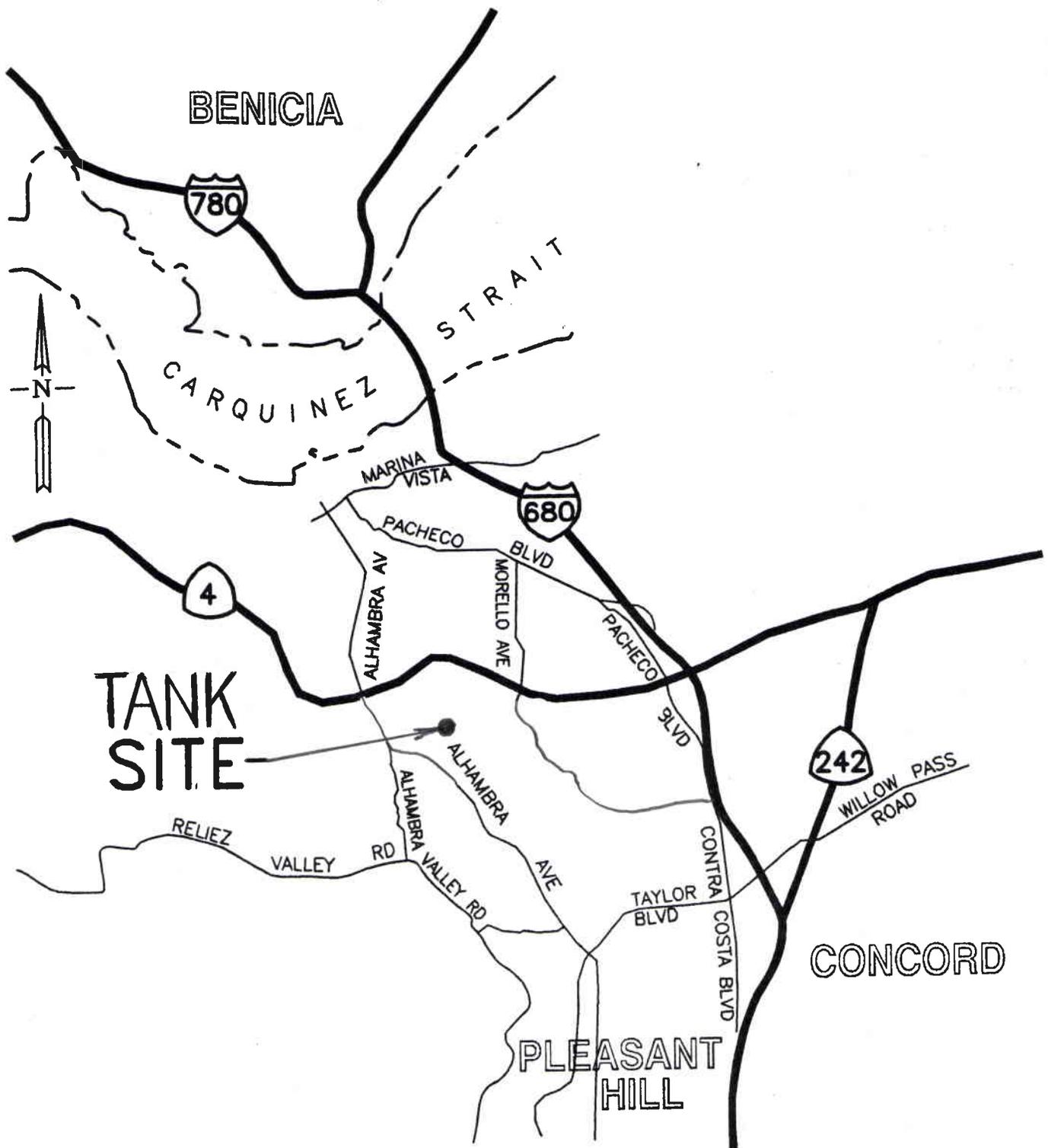
I HEREBY CERTIFY that the foregoing is a true and correct copy of a resolution duly adopted by the City Council of the City of Martinez at an Adjourned Regular Meeting of said Council held on the 23rd day of July, 2008 by the following vote:

AYES:

NOES:

ABSENT:

RICHARD G. HERNANDEZ, CITY CLERK
CITY OF MARTINEZ



VICINITY MAP

N.T.S.