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DEPARTMENT OF  
UTILITIES  
  
ENGINEERING SERVICES

CITY OF SACRAMENTO  
CALIFORNIA

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SACRAMENTO, CA  
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December 17, 1993

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**APPROVED**  
BY THE CITY COUNCIL

City Council  
Sacramento, California

JAN 4 1994

HONORABLE MEMBERS IN SESSION:

OFFICE OF THE  
CITY CLERK  
AG 94-002

**SUBJECT: DRAINAGE MASTER PLANNING (PN:WE76); AGREEMENT WITH WEST YOST & ASSOCIATES (\$196,223)**

**LOCATION AND COUNCIL DISTRICT:**

Drainage Master Planning will be performed for a drainage area located in Council District 2.

**RECOMMENDATION:**

Staff recommends that Council approve the attached resolution, authorizing the City Manager and City Clerk to sign and execute a Consultant and Professional Services Agreement for Drainage Master Planning with the engineering firm of West Yost & Associates.

**CONTACT PERSON:** Terry Paxton, Supervising Engineer, 433-6619

**FOR COUNCIL MEETING OF:** January 4, 1994

**SUMMARY:**

In April 1993, Council adopted long range goals for improving City drainage systems, and directed staff to begin a Master Planning program. In response, staff developed a detailed scope of work and selected engineering consulting firms to conduct the initial Master Plans. Staff requests that Council authorize the City Manager and City Clerk to execute an agreement with one of these firms. The cost of this study is \$196,223. Adequate funding is available in the Department of Utilities' Capital Improvements Program budget.

**COMMITTEE/COMMISSION ACTION:**

None.

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## **BACKGROUND INFORMATION:**

On April 6, 1993, Council adopted Resolution 93-164 accepting the Department of Utilities' Infrastructure Report and directing staff to proceed with a master planning program. The City's current drainage systems were built using design criteria that are not on a par with the common standards of today. The system generally provides less than a 100-year level of flood protection, and less than a 10-year level of street drainage. This results in a potential threat to public health and safety.

Under the Master Planning program, each of the drainage basins will be studied in detail, and a master plan will be prepared showing the least-cost combination of pumping plants, detention facilities, pipelines, and control structures which will be needed to meet both long-range and short-range drainage goals.

As defined in the infrastructure report, the long range goals are to determine what improvements to existing drainage facilities are needed to prevent street flooding during a 10-year rainstorm and to prevent flooding of structures during a 100-year rainstorm. The short range goals are to identify rehabilitation needs that are necessary to allow the existing drainage system to operate as originally designed, and to implement any immediate changes that will result in significant improvements in drainage.

The components of the long-range plans will be used to develop "interim" projects. Such interim projects will be designed to relieve the most onerous flooding conditions, while providing tangible improvements in the areas of system reliability, flexibility, emergency operations, water quality, and public amenities. However, in most cases, construction of new facilities will occur only when existing facilities are retired at life-cycle. The master plan will show the proper size and configuration of replacement facilities.

Recently, staff requested qualifications from fifty (50) engineering consultants to provide master planning services. In response to the request, the following sixteen (16) consultants submitted their qualifications:

Black and Veatch  
Boyle Engineering  
Camp Dresser and McKee  
CH2M Hill  
Dewante & Stowell  
Ensign and Buckley  
Greiner Inc. (Bissell & Karn)  
HDR Engineering

Kennedy Jenks Consultants  
Montgomery Watson Inc.  
Parsons Brinckerhoff  
Mark Thomas and Company  
Vail Engineering  
West Yost and Associates  
Willdan Associates  
Robert E. Young Engineers

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A selection committee reviewed the qualifications of these consultants. The top five (5) consultants on the list were requested to provide detailed scopes of work and budgets for developing master plans. The basins that will be studied are those identified in the Infrastructure Report as highest priority and are listed below.

<u>BASIN NUMBER(S)</u>	<u>COUNCIL DISTRICT(S)</u>
151	2
159	2
37, 43	6
5, 8, 19, 96	5,6
31	6

Black & Veatch, Camp Dresser & McKee, and Kennedy/Jenks were selected to perform the three studies in Council Districts 5 and 6. Council approved their contracts on December 14. Dewante & Stowell has been selected to master plan Basin 159, but a specific scope of work has not yet been completed. A contract for this work is expected to be forwarded for Council approval later in January.

Consultants who submitted adequate qualifications, but who were not among the top five, will be called upon to perform future master planning work, as funding is identified.

**FINANCIAL CONSIDERATIONS:**

Storm Drainage Funding for this agreement is available in CIP #WE76, (425-500-WE76-4802), which had an unobligated balance of \$348,250 as of December 20, 1993. The contract with West Yost and Associates to master plan Basin 151 is for a not-to-exceed amount of \$196,223.

**POLICY CONSIDERATIONS:**

This action is consistent with policy adopted in Resolution 93-164 on April 6, 1993.

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**MBE/WBE EFFORTS:** The consultant has met the City's MBE/WBE goals by using the services of certified MBE/WBE sub-consultants. MBE/WBE utilization is estimated as follows:

MBE/WBE UTILIZATION FOR DRAINAGE MASTER PLANNING				
Prime Contractor	MBE Subcontractor	Utili- zation	WBE Subcontractor	Utili- zation
West Yost	Beyaz & Patel España Geotech. Terada Engrg.	6 % 2 % 3 %	Hughes Environ.	10 %

Respectfully submitted,



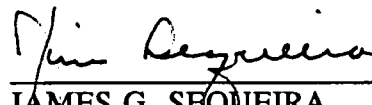
GARY A. REENTS  
Acting Engineering Services Manager

RECOMMENDATION APPROVED:



WILLIAM H. EDGAR  
City Manager

APPROVED:



JAMES G. SEQUEIRA  
Director of Utilities

**RESOLUTION NO.** 94-007

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF \_\_\_\_\_

**RESOLUTION TO AUTHORIZE AND EXECUTE CONSULTANT SERVICES AGREEMENT WITH WEST YOST & ASSOCIATES**

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO THAT:

The City Manager and City Clerk are hereby authorized to sign and execute a consultant services agreement for drainage master planning with West Yost & Associates for an amount not to exceed \$196,223.00

\_\_\_\_\_  
MAYOR

ATTEST:

\_\_\_\_\_  
CITY CLERK

**APPROVED**  
BY THE CITY COUNCIL

JAN 4 1994

OFFICE OF THE  
CITY CLERK

**FOR CITY CLERK USE ONLY**

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

DATE ADOPTED: \_\_\_\_\_