



DEPARTMENT OF THE ARMY

LOS ANGELES DISTRICT, CORPS OF ENGINEERS

P.O. BOX 532711

LOS ANGELES, CALIFORNIA 90053-2325

December 2, 1997

3-104 / SEVEN OAKS DAM

Office of the Chief
Design Branch

Ms. Vana Olson
Chief, Federal Projects Engineering Division
Public Works Group
San Bernardino County
Transportation/Flood Control Department
825 Third Street
San Bernardino, CA 92415-0385

RECEIVED
DEC 08 1997
FEDERAL PROJECTS/
FLOOD CONTROL ENGINEERING

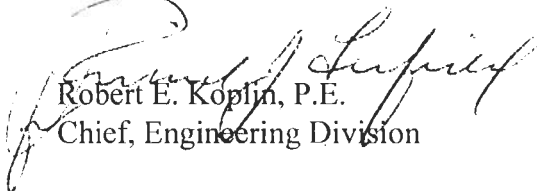
Dear Ms. Olson:

Reference Seven Oaks Dam construction Contract No. DACW09-94-C-0021, San Bernardino County, California.

Enclosed are four sets of revised contract drawings and specifications for your use. The revisions document design changes on abutment and foundation excavations, embankment zone changes (including raising the blanket drain for potential water conservation), embankment gutter, location of inclinometers and hydrologic instrument pipe, Outlet Works Access Road and Intake Structure Access Road redesigns, new Outlet Works equipment room, and various clarifications on mechanical gate details. These changes are annotated on the drawings as M1 or M2 inscribed in rectangle.

If you have any questions, please contact Robert Kwan, Design Section A, at (213) 452-3639.

Sincerely,


Robert E. Koplín, P.E.
Chief, Engineering Division

Enclosure

**TRANSPORTATION/FLOOD CONTROL
DEPARTMENT - COUNTY SURVEYOR**



COUNTY OF SAN BERNARDINO
PUBLIC WORKS GROUP

825 East Third Street • San Bernardino, CA 92415-0835 • (909) 387-2800
Fax No. (909) 387-2667

KEN A. MILLER
Director

December 2, 1996

File: 3-104/1.00

Mr. Louis Fletcher, General Manager
San Bernardino Valley Municipal Water District
1350 South E Street
San Bernardino, CA 92412

Re: Zone 3, Seven Oaks Dam
Water Conservation,
Extension of Blanket Drain

Dear Louis:

We are in receipt of the attached letter and memorandum from the Corps of Engineers Los Angeles District, which identifies an estimated cost of \$40,000 to design the blanket drain between Elevation 2300 and Elevation 2418. Funding in the specified amount will enable the Corps to develop a design package including the estimated cost to accomplish the construction work.

In reviewing our agreement of November 23, 1993 relative to the Seven Oaks Dam Water Conservation Study, the additionally requested funding would be considered "Local Sponsor Costs". If you concur, please remit \$40,000 for this additional design work and we will in turn request the Corps of Engineers to proceed with the development of the design package and cost estimate. We would also appreciate your coordination of this with the Western Municipal Water District.

If you have any further questions or comments, please call me at (909) 387-2623.

Sincerely,

Ken A. Miller

KEN A. MILLER
Flood Control Engineer

KAM:rc

Attachment as noted

cc: Vana Olson



DEPARTMENT OF THE ARMY

LOS ANGELES DISTRICT, CORPS OF ENGINEERS

P.O. BOX 2711

LOS ANGELES, CALIFORNIA 90053-2325

November 14, 1996

REPLY TO
ATTENTION OF:

Office of the Chief
Santa Ana River Project Branch



Mr. Ken A. Miller
Flood Control Engineer
Transportation/Flood Control Department - County Supervisor
County of San Bernardino
Public Works Group
825 East Third Street
San Bernardino, California 92415

Dear Mr. Miller:

This letter is in response to your letter dated October 31, 1996 regarding the Seven Oaks Dam construction project.

The design for extending the blanket drain from El 2,300 to El 2,418 can be accomplished. The estimated cost for design of the blanket drain and coordination with Portland District is \$40,000. San Bernardino County will provide up-front financing for the design. A timely decision concerning implementation of the blanket drain design process is necessary to minimize cost and delay impacts to the current Seven Oaks Dam construction project.

Upon receipt of the \$40,000 in the Los Angeles District, we will develop a design package and provide a cost estimate to accomplish the work. The cost estimate will be provided at completion of the design phase. If, after your review of the cost estimate, you decide this work should be added to the construction contract, you would be required to deposit an amount equal to the cost estimate in the escrow account. We will enter into negotiations with the contractor after an agreement has been reached concerning the added work and we have the necessary funding.

If you have questions regarding this matter, please contact Mr. Girish J. Desai at (213) 452-4005.

Sincerely,

Brian M. Moore
Deputy District Engineer
for Project Management

November 12, 1996

MEMORANDUM FOR RECORD

SUBJECT: Acceptance of "Other Non-Federal Funds"; Santa Ana River Mainstem Project, Seven Oaks Dam, San Bernardino County.

1. The San Bernardino County Flood Control District (SBCFCD) has requested that Los Angeles District perform the design for extending the blanket drain from El 2,300 to El 2,418 for the Seven Oaks Dam construction contract. This request was forwarded by their October 31, 1996 letter.
2. Elevation 2,418 is considerably above that of the current Locally Preferred Plan (LPP) elevation 2,300 for water conservation behind Seven Oaks Dam. However, it would be cost effective and prudent to make necessary changes now under the current construction contract that would allow for potential higher water conservation pool levels in the future. The project local sponsor has offered to pay the entire cost of the performance of this work in advance, including engineering, design, construction cost estimate, and coordination with Portland District. These costs are estimated at \$40,000.
3. Completion of this work by the Corps of Engineers will help the local sponsor to determine if they want to extend the blanket drain to a higher elevation for water conservation. This will also help the Resident Engineer to negotiate a change order with the contractor if one is eventually requested.
4. Acceptance of "Other Non-Federal Funds" from the project local sponsors is authorized in an amount sufficient to pay all costs of accomplishing the non-Federal work mentioned above, including related Federal government costs.



Robert L. Davis
Lieutenant Colonel,
Corps of Engineers
District Engineer

MINUTES OF THE BOARD OF SUPERVISORS
C. SAN BERNARDINO COUNTY, CALIFORNIA

FCD, Gen'l.
FCD, All River
Agree. No. 93-1118

November 23, 1993

FROM: **KEN A. MILLER, Director**
Transportation/Flood Control

SUBJECT: **AGREEMENT WITH SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT AND WESTERN MUNICIPAL WATER DISTRICT FOR SEVEN OAKS DAM WATER CONSERVATION FEASIBILITY STUDY**

RECOMMENDATION: Acting as the governing body of the San Bernardino County Flood Control District (SBCFCD), approve agreement with San Bernardino Valley Municipal Water District (SBVMWD) and Western Municipal Water District of Riverside County (WMWD).

BACKGROUND: The CORPS has completed a reconnaissance study for water conservation at Seven Oaks and Prado Dams and has determined to pursue a Feasibility Phase Study to investigate water conservation potential at the Seven Oaks Dam. This agreement outlines funding mechanisms for Seven Oaks Dam Water Conservation Feasibility Study that will be performed by the U.S. Army Corps of Engineers (CORPS). The SBCFCD, representing the three sponsors (Riverside County, Orange County and San Bernardino County) of the Santa Ana River Mainstem Project, will act as the Local Sponsor to the CORPS for this feasibility study.

REASON FOR RECOMMENDATION: Board approval is required to enact this agreement.

REVIEW BY OTHER DEPARTMENTS: This agreement was reviewed by Deputy County Counsel Charles Scolastico on November 4, 1993 and executed by San Bernardino Valley Municipal Water District on October 19, 1993.

FINANCIAL DATA: There will be no financial impact to the Department. The feasibility study requires the Local Sponsor to provide 50 percent of the total study costs to the CORPS. This agreement outlines Local Sponsor funding to be provided by SBVMWD (72.05%) and WMWD (27.95%) for the total commitment of \$1,090,000.

PRESENTER: Ken A. Miller

cc: Flood Control Dist. w/3 Agr.
S.B. Muni. Water Dist.
and Western Muni. Water Dist.
c/o Flood Control District
Auditor, w/agr.
Human Res./Af. Action
Risk Management
PWG
File w/agr.

vg

Action of the Board of Supervisors

AGREEMENT NO. 93-1118

APPROVED BOARD OF SUPERVISORS
COUNTY OF SAN BERNARDINO

MOTION	MOVE	AYE	AYE	SECOND	ABSENT
	1	2	3	4	5

EARLENE SPROAT, CLERK OF THE BOARD

BY *Earlene Sproat*

DATED : NOVEMBER 23, 1993

ITEM 34



FOR COUNTY USE ONLY

SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT

F A S

CONTRACT TRANSMITTAL

<input type="checkbox"/> E <input type="checkbox"/> M <input checked="" type="checkbox"/> X		Vendor Code 	SC	A	Contract Number 93-1118			
County Department Trans/Flood Control			Dept. 097	Orgn. 097	Contractor's License No.			
Flood Control District Contract Representative Mina Ghaly				Ph. Ext. 387-2571	Amount of Contract			
Fund	Dept.	Organization	Appr.	Obj/Rev Source	Activity	GRC/PROJ/JOB Number		
Commodity Code			Estimated Payment Total by Fiscal Year					
			FY	Amount	I/D	FY	Amount	I/D
Project Name								
Seven Oaks Dam Water Conservation Feasibility Study								

CONTRACTOR See Signatures

Birth Date _____ Federal ID No. or Social Security No. _____

Contractor's Representative _____

Address _____ Phone _____

Nature of Contract: *(Briefly describe the general terms of the contract)*

An agreement between San Bernardino County Flood Control District (Flood Control), acting as Local Sponsor, and San Bernardino Valley Municipal Water District (San Bernardino Valley) and Western Municipal Water District of Riverside County (Western) that outlines funding responsibilities for the Seven Oaks Dam Water Conservation Feasibility Study.

COUNTY OF SAN BERNARDINO
 RECEIVED
 NOV 11 1993

(Attach this transmittal to all contracts not prepared on the "Standard Contract" form.)

Approved as to Legal Form County Counsel Date <u>11-9-93</u>	Reviewed as to Affirmative Action Date <u>11-9-93</u>	Reviewed for Processing Agency Administrator/CAO Date _____
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AGREEMENT

BETWEEN THE SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT AND
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT AND
WESTERN MUNICIPAL WATER DISTRICT OF RIVERSIDE COUNTY
SEVEN OAKS DAM WATER CONSERVATION STUDY

THIS AGREEMENT, entered into this 23rd day of November 1993, by and among the SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT (hereinafter referred to as "FLOOD CONTROL"), acting as Local Sponsor, and SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT (hereinafter referred to as "SAN BERNARDINO VALLEY") and WESTERN MUNICIPAL WATER DISTRICT OF RIVERSIDE COUNTY (hereinafter referred to as "WESTERN") to provide funding of the Local Sponsors 50% share for a "Feasibility Phase Study".

WHEREAS, Flood Control on behalf of the Santa Ana River Mainstem Sponsors (Orange County Flood Control, referred to as "ORANGE"; Riverside County Flood Control and Water Conservation District, referred to as "RIVERSIDE"; and FLOOD CONTROL) was agreed upon by the Water Agencies to be the local sponsor for the Seven Oaks Dam Water Conservation.

WHEREAS, the C/E has conducted a reconnaissance study of water conservation along the Santa Ana River at Seven Oaks under the authority of the Water Resources Development Act of 1986, Public Law 99-662, Section 903 (b), and has determined that further study in the nature of a "Feasibility Phase Study" (hereinafter called the "STUDY") is required to fulfill the intent of the study authority and to complete the extent of the federal interest in studying the feasibility of providing water conservation at Seven Oaks Dam, California.

WHEREAS, FLOOD CONTROL, the sponsor, and the "CORPS" will enter into an agreement, referred herein after as C/E's Agreement, to fund the study, where it was agreed that the authorized "Total Study Costs" shall be shared and funded 50 percent by the "CORPS" and 50 percent by the Local Sponsor; and

WHEREAS, SAN BERNARDINO VALLEY AND WESTERN will comply with the C/E's agreement; and

WHEREAS, study is currently estimated to be completed in approximately forty (40) months and the total study costs are currently estimated to be \$2,180,000 and thereby the Local Sponsors 50% share is estimated to be \$1,090,000; and

WHEREAS, Local Sponsors share is to be totally funded by "SAN BERNARDINO VALLEY" at Seventy-Two and Five Hundredths (72.05) percent and "WESTERN" at Twenty-Seven and Ninety-Five Hundredths (27.95) percent, and FLOOD CONTROL desires to establish and guarantee in advance, funding of the Local Sponsor costs.

NOW, THEREFORE, it is agreed by "SAN BERNARDINO VALLEY", "WESTERN" and FLOOD CONTROL as follows:

1. For purposes of this Agreement the following terms are defined:
 - a. The term "STUDY" shall mean the Seven Oaks Dam Water Conservation Study that is being performed by the "CORPS".
 - b. The term "Total Study Costs" shall refer to all costs incurred by the CORPS in the execution of the scope of work as has been outlined by the CORPS in the "Initial Projects Management Plan".

- c. The term "LOCAL SPONSOR COSTS" shall mean all funds requested by the CORPS and collected by FLOOD CONTROL from "SAN BERNARDINO VALLEY" AND "WESTERN" and contributed towards the completion of the study whether they be forwarded as cash or in-kind services.
2. FLOOD CONTROL shall execute the C/E's Agreement after review and consent from SAN BERNARDINO VALLEY and WESTERN.
3. FLOOD CONTROL shall request funds each government fiscal year from "SAN BERNARDINO VALLEY" AND "WESTERN" in an amount sufficient to satisfy the Local Sponsors Cost share as requested by the "CORPS" and make such funds available to the government within Ninety (90) days of said "CORPS" request.
4. "SAN BERNARDINO VALLEY" shall pay its 72.05% share of Local Sponsor costs to FLOOD CONTROL within Forty-Five (45) days of receipt of request from FLOOD CONTROL.
5. "WESTERN" shall pay its 27.95% share of Local Sponsor costs to FLOOD CONTROL within Forty-Five (45) days of receipt of request of funds from FLOOD CONTROL.
6. "SAN BERNARDINO VALLEY" and "WESTERN" funds forwarded to the Government by FLOOD CONTROL that are not dispersed or utilized by the "CORPS" for the Study within the Government fiscal year shall be carried over and applied as credit to the local sponsor cost of the succeeding fiscal year at the same 72.05/27.95 pro rata contribution rates.
7. Should either "SAN BERNARDINO VALLEY", "WESTERN" or both fail to forward the requested yearly amounts to FLOOD CONTROL within the Forty-Five (45) days specified time shall be cause of termination of the agreement as provided for under Section 9 herein.
8. FLOOD CONTROL shall keep books, records, documents and all other evidences pertaining to study costs and expenses incurred pursuant to this agreement to the extent and in such detail as will properly reflect total project costs. FLOOD CONTROL shall maintain said documents and make them available for review on demand by the parties of this agreement for a period of 3 years after completion of the study or termination of the agreement.
9. This Agreement shall be binding upon all parties hereto and upon their successors and assigns and shall terminate after completion of the "study" as provided for under Section 10; provided that prior to such time and upon thirty (30) days written notice, any party to this agreement may terminate or suspend this agreement without penalty.
10. Within One Hundred Twenty (120) days after termination of this agreement, FLOOD CONTROL shall provide a final accounting of Total Study Costs. Within Forty-Five (45) days thereafter FLOOD CONTROL will either request an additional funding amount from "SAN BERNARDINO VALLEY" and "WESTERN" or subject to reimbursement by the "CORPS", return any contributions given by "SAN BERNARDINO VALLEY" AND "WESTERN" over the Fifty (50) percent local sponsor share of total project costs at the Seventy-Two and Five Hundredths (72.05)/Twenty-Seven and Ninety-Five Hundredths (27.95) pro rata share of the total study costs.
11. This agreement shall become effective when executed by FLOOD CONTROL and SAN BERNARDINO VALLEY. WESTERN may execute this agreement at the same time or some future date after the necessary payment arrangements have been made with the other plaintiffs in the 1969 Western - San Bernardino settlement. SAN BERNARDINO VALLEY shall pay 100% of the Local Sponsor costs as billed by FLOOD

CONTROL until WE has executed this agreeme After executing the agreement, WESTERN shall pay 27.95% of any further al Sponsor costs and WESTERN shall repay SAN BERNARDINO VALLEY 27.95% of any Local Sponsor costs which were paid 100% by SAN BERNARDINO VALLEY.

- 12. FLOOD CONTROL shall notify SAN BERNARDINO VALLEY and WESTERN of any meetings related to the STUDY and provide copies of communications, reports, or other documents from the C/E's related to the STUDY. FLOOD CONTROL shall provide periodic reports on the progress of the STUDY.
- 13. FLOOD CONTROL shall notify ORANGE and RIVERSIDE of any meetings and provide them with copies of communications, reports or other documents related to the STUDY and coordinate progress and obtain comments of preliminary reports prior to approval of final documents.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first above written and they have the authority to sign on behalf of the respective parties.

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

By: [Signature]
Dated: October 19, 1993

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT

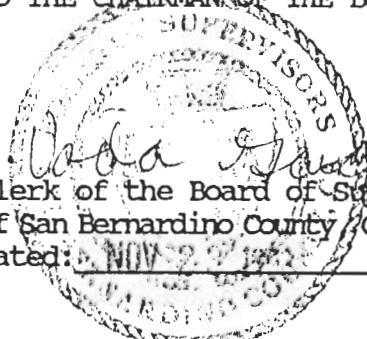
By: [Signature]
Chairman, Board of Supervisors
Dated: NOV 23 1993

93-1118

SIGNED AND CERTIFIED THAT A COPY OF THIS AGREEMENT HAS BEEN DELIVERED TO THE CHAIRMAN OF THE BOARD

WESTERN MUNICIPAL WATER DISTRICT

By: [Signature]
Dated: 11-18-93
By: _____



Deputy Clerk of the Board of Supervisors of San Bernardino County California
Dated: NOV 23 1993

APPROVED AS TO LEGAL FORM

By: [Signature]
County Counsel of San Bernardino County
Dated: 11-9-93

TRANSPORTATION/FLOOD CONTROL DEPARTMENT - COUNTY SURVEYOR



COUNTY OF SAN BERNARDINO
PUBLIC WORKS GROUP

325 East Third Street • San Bernardino, CA 92415-0835 • (909) 387-2800
Fax No. (909) 387-2867

KEN A. MILLER
Director

October 31, 1996

File: 3-104/1.00

Mr. Bob Joe
U.S. Army Corps of Engineers
Los Angeles District Office
P. O. Box 2711
Los Angeles, CA 90053

Dear Mr. Joe:

Reference is made to the Seven Oaks Dam Water Conservation Study that is currently underway. It our meeting in August, it was indicated by your staff that it would be necessary to provide additional construction amenities if water conservation storage in the future were to be taken as high as elevation 2418. This elevation is considerably above that of the current locally recommended plan, however, we believe it would be cost effective and prudent to make necessary changes now that would allow for potential higher conservation pool levels. It was further indicated that it would be necessary to extend blanket drains on each abutment with the current dam construction in order to make water conservation viable at the higher 2418 elevation. As the current top of dam construction is approaching elevation 2200, it would appear that there is ample time to address the extension of the blanket drains. It is our understanding that elevation of 2300 will not be reached until late in 1997. Accordingly, we would ask that the Corps initiate necessary review and processing for the extension of blanket drains above the currently planned elevation 2300. Attached is a letter of support from the San Bernardino Valley Municipal Water District for this proposed change.

If you need any further information from us on this matter, please advise. Also, it would be very important to the local sponsors to be provided with a cost estimate for extending the blanket drains as well as any requirements that will be necessary to effect the change.

Sincerely,

Ken A. Miller
KEN A. MILLER
Flood Control Engineer

KAM:rc

Attachment as noted

cc: Barbara Cram Riordan
G. Louis Fletcher

Post-It® Fax Note		7671	Date 10-31	# of pages 1
To	G. Louis Fletcher		From	Ken Miller
Co./Dept.	SB Valley Wtr Dist		Co.	Trans/Flood
Phone #			Phone #	387-2623
Fax #	387-9247		Fax #	



San Bernardino Valley Municipal Water District

1350 SOUTH "E" STREET - P. O. BOX 5906 - SAN BERNARDINO, CALIFORNIA 92412-5906 - (909) 387-9200
FAX (909) 387-9247

August 29, 1996

Ken A. Miller, Director
San Bernardino County
Transportation/Flood Control Department
825 East Third Street
San Bernardino CA 92415-0835

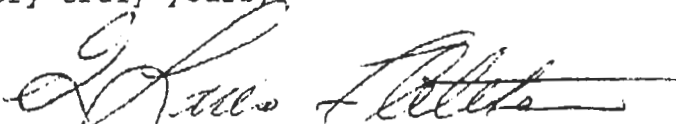
Dear Ken:

Thank you for hosting the Seven Oaks Dam Water Conservation Study status meeting yesterday. The Study continues to look very promising with regard to the potential for water conservation at Seven Oaks Dam.

During the meeting Jill Zoiss presented information regarding additional construction features which would be necessary to allow water conservation storage at the 2375 and 2418 elevation levels in the future. Most of those features can be installed as retrofits to the completed project. One feature which would need to be installed during construction is continuation of the blanket drain on each abutment up to elevation 2418. Current construction plans call for the blanket drain on the abutments to stop at elevation 2300. The Corps has indicated that extension of the abutment blanket drain to elevation 2418 may be feasible as a change order to the existing construction contract. The Corps will perform further review and design work on this item given an indication of local interest in proceeding.

The District requests that you, as the local sponsor, ask the Corps to further review the feasibility of extending the abutment blanket drains during construction of the dam.

Very truly yours,


G. Louis Fletcher
General Manager
and Chief Engineer

Directors and Officers

EDWARD B. KILLGORE
Division I

GEORGE A. AGUILAR
Division II

C. PATRICK MILLIGAN
Division III

JOAN DOTSON
Division IV

MARGARET C. WRIGHT
Division V

G. LOUIS FLETCHER
General Manager
and Chief Engineer