

NOTICE OF PUBLIC MEETING

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT

MARCH 9, 1989

8:45 A.M.

CITY OF LAS VEGAS CITY HALL
COUNCIL CHAMBERS
400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101

FOR ADDITIONAL INFORMATION CONTACT:
VIRGINIA BAX-VALENTINE, P.E., GENERAL MANAGER
301 EAST CLARK STREET, SUITE 300
LAS VEGAS, NEVADA 89101
455-3139

POSTED: March 3, 1989

CITY OF NORTH LAS VEGAS
CLARK COUNTY BRIDGER BUILDING
CITY OF LAS VEGAS CITY HALL
REGIONAL FLOOD CONTROL DISTRICT

BY: AJ MYLES

BRD:NOTICE

AGENDA

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
MARCH 9, 1989

ACTION ITEMS:

- 1) ACTION TO WAIVE THE TIMELINESS REQUIREMENT FOR A MOTION TO RECONSIDER UNDER ROBERT'S RULES OF ORDER TO ALLOW A MOTION TO RECONSIDER THE LAKE AT LAS VEGAS VARIANCE
- 2) POSSIBLE ACTION TO CONSIDER A MOTION TO RECONSIDER THE LAKE AT LAS VEGAS VARIANCE REQUEST
- 3) POSSIBLE ACTION TO RECONSIDER THE VARIANCE REQUEST FOR THE LAKE AT LAS VEGAS
- 4) APPROVAL OF MINUTES
 - a. Regular meeting of February 9, 1989
- 5) ACTION TO SELECT A CONSULTING FIRM TO PREPARE THE DESIGN MANUAL AND AUTHORIZE STAFF TO NEGOTIATE A CONTRACT
- 6) ACTION TO AUTHORIZE STAFF TO NEGOTIATE AN AGREEMENT WITH THE LAS VEGAS VALLEY WATER DISTRICT TO COOPERATIVELY FUND A STUDY OF GROUNDWATER RECHARGE IN DETENTION BASINS
- 7) AUTHORIZE STAFF TO SOLICIT PROPOSALS FOR ENGINEERING SERVICES TO PREPARE A MASTER PLAN UPDATE OF THE BRIDGE CANYON WATERSHED IN LAUGHLIN, NEVADA
- 8) ACTION TO APPROVE SUPPLEMENTAL INTERLOCAL AGREEMENTS:
 - a) Supplemental Interlocal Agreement for the Western Tributary of the Las Vegas Wash between Craig Ranch Golf Course and Craig Road (Upper Mendenhall Channel)
 - b) Supplemental Interlocal Agreement for the Western Tributary of the Las Vegas Wash between Craig Road and Alexander Road (Southern Nevada Industrial Channel)
 - c) Supplemental Interlocal Agreement for Warm Springs Bridge and Stephanie Street Structure (Pittman Wash Channel)
- 9) ACTION TO APPROVE AWARD OF BIDS:
 - a) Western Tributary of the Las Vegas Wash Between Craig Ranch Golf Course and Craig Road (Upper Mendenhall Channel)
 - b) Western Tributary of the Las Vegas Wash between Craig Road and Alexander Road (Southern Nevada Industrial Channel)
 - c) Meadows Detention Basin, Phase II and III (CLVV6)
- 10) STATUS REPORT REGARDING IMPLEMENTATION OF THE MASTER PLAN

AGENDA

**CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
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- 11) ACTION TO APPROVE THE STUDENT INTERNSHIP PROGRAM
- 12) ACTION TO AUTHORIZE A CONTRACT MODIFICATION FOR THE MASTER PLAN EIS
- 13) CITIZENS ADVISORY COMMITTEE REPORT AND ACTION TO APPROVE FLOOD AWARENESS WEEK ACTIVITIES
- 14) PROJECT STATUS REPORTS
 - a) Projects managed by the District - February 14, 1989
 - b) City of Las Vegas - February 10, 1989
 - c) City of North Las Vegas - February 14, 1989
 - d) Corps of Engineers - February 1, 1989
- 15) FINANCIAL REPORTS
 - a) Fund Balance Reports
 - b) Monthly Expenditure Report
 - c) Project Expense Summary
 - d) Revenue Report

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

301 E. Clark Avenue, Suite 300

Las Vegas, Nevada 89101

(702) 455-3139

VIRGINIA BAX-VALENTINE, P.E.
General Manager

MEMORANDUM

TO: Board of Directors, Regional Flood Control District

FROM: Virginia Bax-Valentine, P.E., General Manager/Chief Engineer

SUBJECT: Meeting of March 9, 1989

DATE: March 2, 1989

ACTION ITEMS:

- 1) ACTION TO WAIVE THE TIMELINESS REQUIREMENT FOR A MOTION TO RECONSIDER UNDER ROBERT'S RULES OF ORDER TO ALLOW A MOTION TO RECONSIDER THE LAKE AT LAS VEGAS VARIANCE:
In November of 1988, the Board adopted policies and procedures which require that the Board use Robert's Rules of Order for the official transaction of business. The District Attorney's office is of the opinion that a motion to reconsider, under Robert's Rules of Order, must be made within a reasonable time following the action to be reconsidered. Since a considerable amount of time has elapsed since the variance was denied, the DA's office recommends that the Board waive the timeliness requirement under Robert's Rules of Order to allow a motion to reconsider the Lake at Las Vegas Variance request.
- 2) POSSIBLE ACTION TO CONSIDER A MOTION TO RECONSIDER THE LAKE AT LAS VEGAS VARIANCE REQUEST:
The variance requested for the Lake at Las Vegas by the City of Henderson was denied by the Board at its January 12, 1989 meeting. According to Robert's Rules of Order the motion to reconsider must be made by a member who previously voted with the majority. Action on this item does not constitute action on the variance request, but it is necessary to comply with the procedural requirements to allow reconsideration of the variance request. No action may be taken on this item unless Item 1 passes. If the motion to reconsider the variance fails, then no action may be taken on Item 3.
- 3) POSSIBLE ACTION TO RECONSIDER THE VARIANCE REQUEST FOR THE LAKE AT LAS VEGAS:
Favorable action on Item 2 of this agenda allows the Board to reconsider the variance request at this meeting, however the Board is not required to take any action at this time. The Board may hold this item until the next regular meeting, set a special meeting, or proceed with action on the item during this meeting.

Board Members

Bruce L. Woodbury, *Chairman*, Clark County • Chris Christensen, *Vice-Chairman*, City of Boulder City
Carlton Lawrence, *Secretary*, City of Henderson • Paul J. Christensen, Clark County • Theron Goynes, City of North Las Vegas
Craig Pulsipher, City of Mesquite • Ron Lurie, City of Las Vegas • Bob Nolen, City of Las Vegas

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

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Board of Directors
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The variance requested for the Lake at Las Vegas by the City of Henderson was denied by the Board at its January 12, 1989 meeting. A list of possible variance conditions, including execution of several agreements, was developed for consideration at that meeting. The conditions and agreements have been included in the backup material for your reconsideration. Since that time, no new information or revisions to the conditions have been submitted.

- 4) **APPROVAL OF MINUTES:**
Staff requests approval of the minutes for the regularly scheduled meeting of February 9, 1989.
- 5) **ACTION TO SELECT A CONSULTING FIRM TO PREPARE THE DESIGN MANUAL AND AUTHORIZE STAFF TO NEGOTIATE A CONTRACT:**
The District received Statements of Qualifications from eleven consulting engineering firms. The proposals were evaluated by a Selection Committee made up of representatives of the City of Las Vegas, City of North Las Vegas, City of Henderson, Clark County, and District staff.

A list of the firms which submitted proposals is included in the backup material. The four top-ranked firms in alphabetical order are:

Boyle Engineers
Montgomery Engineers
Simons and Li/Wallace Engineers
WRC/The Mark Group

Staff recommends that the Board select one of the top-ranked firms and authorize the Chief Engineer to negotiate a contract with the selected firm.

- 6) **ACTION TO AUTHORIZE STAFF TO NEGOTIATE AN AGREEMENT WITH THE LAS VEGAS VALLEY WATER DISTRICT TO COOPERATIVELY FUND A STUDY OF GROUNDWATER RECHARGE IN DETENTION BASINS:**
Staff has received several inquiries regarding the potential for groundwater recharge in flood control detention basins. While it appears that groundwater recharge with runoff is technically feasible, no studies have been performed locally to evaluate the economic feasibility of using detention basins for recharge.

The Las Vegas Valley Water District (LVVWD) has extensive technical experience and expertise in groundwater recharge and also stands to benefit directly from recharge projects. Both

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

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the funding and management of any such study should be a cooperative effort between the District and the LVVWD.

At the last meeting, staff requested authorization to negotiate an agreement with the LVVWD to cooperatively fund an economic and engineering study of groundwater recharge using stormwater in detention basins. The Board withheld action on this item and requested that the staff research the issue and report on the feasibility of recharging with stormwater at this meeting.

Staff has contacted several flood control districts in the southwest and found that no other flood control districts are using stormwater runoff for recharge. In a study conducted in Albuquerque, New Mexico, the conclusion indicated that such recharge was not presently economically feasible. The flood control districts contacted generally felt that recharge with stormwater was not feasible and cited the following reasons:

1. High cost of infiltration wells and storage capacity compared to low cost of water,
2. Low volume of runoff available, and the unreliable and unpredictable nature of runoff,
3. Water quality problems with runoff from urban areas and potential groundwater contamination.

Based on this information and the comments made by the LVVWD General Manager at the last Board Meeting, staff recommends that the Board table this item indefinitely. The Board may want to reconsider this item at a future date if the LVVWD indicates an interest in pursuing the feasibility study.

7) **AUTHORIZE STAFF TO SOLICIT PROPOSALS FOR ENGINEERING SERVICES TO PREPARE A MASTER PLAN UPDATE OF THE BRIDGE CANYON WATERSHED IN LAUGHLIN, NEVADA:**

NRS 543.596 requires that the District's Master Plan be updated every five (5) years, taking into consideration any new information which is relevant to the Plan. Work will soon be completed under a District contract for the preparation of a flood control facilities plan for Hiko Springs Wash and Unnamed Wash in Laughlin. It is anticipated that the report prepared under this contract will be suitable for inclusion in a master plan update. The preparation of an update for the Bridge Canyon drainage basin would then complete the update

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

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for the Laughlin area for the current 5-year period. A preliminary scope of work for this update is included in the backup for your review.

Staff recommends that the Board authorize the General Manager to solicit proposals for the master plan update of Laughlin.

8) ACTION TO APPROVE SUPPLEMENTAL INTERLOCAL AGREEMENTS:
a) SUPPLEMENTAL INTERLOCAL AGREEMENT FOR THE WESTERN TRIBUTARY OF THE LAS VEGAS WASH BETWEEN CRAIG RANCH COURSE AND CRAIG ROAD (UPPER MENDENHALL):

The City of North Las will be opening bids on the construction of the Western Tributary of the Las Vegas Wash between Craig Ranch Golf Course and Craig Road. This reach of the Channel is also known as the Upper Mendenhall Channel and is part of Northern Las Vegas Valley Facility No. 1 (NLVV1). This channel joins the channel identified under agenda Item 8.b. at Craig Road.

The bid opening is set for March 3, 1989. The results of the bid opening were not available in time to include in your backup. The results will be reported at the meeting. Sufficient funding may be available for the project under the existing Interlocal Agreements, however the exact project cost will not be known until after the bids are opened. A special technical committee meeting will be held on March 9, 1989, before the Board meeting to consider action on this item.

A Supplemental Interlocal Agreement to provide additional funding, if needed, for the project is included in the backup. The dollar amounts in the Agreement have been left blank and will be filled in after the bids are opened. The staff and Technical Advisory Committee recommendations will be given at the meeting.

b) SUPPLEMENTAL INTERLOCAL AGREEMENT FOR THE WESTERN TRIBUTARY OF THE LAS VEGAS WASH BETWEEN CRAIG ROAD AND ALEXANDER ROAD (SOUTHERN NEVADA INDUSTRIAL CHANNEL):

The City of North Las Vegas will be opening bids on the construction of the Western Tributary of the Las Vegas Wash between Craig Road and Alexander Road. This reach of the channel is also known as the Southern Nevada Industrial Channel and is part of Northern Las Vegas Valley Facility No.1 (NLVV1). This channel joins the channel identified under agenda Item 8.a. at Craig Road.

A Supplemental Interlocal Agreement to provide additional funding, if needed for the project, is included in the

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

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backup. The dollar amounts in the Agreement have been left blank and will be filled in after bids are opened. The staff and Technical Advisory Committee recommendations will be given at the meeting.

The bid opening is set for March 3, 1989. The results of the bid opening were not available in time to include in your backup. The results will be reported at the meeting. Sufficient funding may be available for the project under the existing Interlocal Agreements, however the exact project cost will not be known until after the bids are opened. A special technical committee meeting will be held on March 9, 1989, before the Board meeting to consider action on this item.

- c) SUPPLEMENTAL INTERLOCAL AGREEMENT FOR WARM SPRINGS BRIDGE AND STEPHANIE STREET STRUCTURE (PITTMAN WASH CHANNEL):
The City of Henderson has an existing Interlocal Agreement for \$916,000 for the construction of the Warm Springs Bridge and the Stephanie Street Structure on Pittman Wash. The City is requesting an additional \$165,400 based upon the engineers cost estimate and the need for construction of channel improvements associated with the bridges.

The Supplemental Interlocal Agreement is included in the backup for your review. Staff recommends approval of the Agreement.

9) ACTION TO APPROVE AWARD OF BIDS:

- a) WESTERN TRIBUTARY OF THE LAS VEGAS WASH BETWEEN CRAIG RANCH GOLF COURSE AND CRAIG ROAD (UPPER MENDENHALL CHANNEL):
North Las Vegas will be receiving bids for the construction of the Western Tributary of the Las Vegas Wash between Craig Ranch Golf Course and Craig Road before the Technical Committee meets. The results of the bid opening will be presented at the Special Technical Advisory Committee meeting set for March 9, 1989. The staff recommendation will be given at the meeting.
- b) WESTERN TRIBUTARY OF THE LAS VEGAS WASH BETWEEN CRAIG ROAD AND ALEXANDER ROAD (SOUTHERN NEVADA INDUSTRIAL CHANNEL):
North Las Vegas will be receiving bids for the construction of the Western Tributary of the Las Vegas Wash between Craig Road and Alexander Road before the Technical Advisory Committee meets. The results of the bid opening will be presented at the Special Technical Advisory Committee meeting set for March 9, 1989. The staff recommendation will be given at the meeting.

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- c) MEADOWS DETENTION BASIN, PHASE II AND III (CLVV6):
The City of Las Vegas has opened bids on the construction of Phases II and III of the Meadows Detention Basin. This project is part of Central Las Vegas Valley Facility No. 6 (CLVV6) as identified in the District's Master Plan. District funds, in the amount of \$226,893.09, will be utilized for that portion of the project that will be constructed through the Alta Drive/Valley View Boulevard intersection.

The remaining portions of the project will be funded by interest earnings on the Clark County Flood Control Bonds. Included in your backup is the Bid Abstract. Staff recommends approval of the award of bid to Las Vegas Paving, with the low bid of \$2,649,592.

- 10) STATUS REPORT REGARDING IMPLEMENTATION OF THE MASTER PLAN:
Commissioner Woodbury requested that staff and the District's advisory committees develop a plan to shorten the implementation time required so that more projects are constructed over a shorter time period. The Citizens Advisory Committee and Technical Advisory Committee have held meetings with staff to discuss ways to speed up the implementation process. The Chairmen from both committees will present their recommendations at the meeting. A memorandum summarizing their recommendations is included in the backup.

Staff recommends that the Board direct the Technical Advisory Committee and staff to implement the recommendation during the update of the 10-year program.

- 11) ACTION TO APPROVE THE STUDENT INTERNSHIP PROGRAM:
The establishment of a student internship program will provide quality clerical and/or technical assistance to the staff of the District and provide a Nevada student with job training in a professional environment. A UNLV engineering student is currently working for the District on a part-time temporary basis performing a variety of duties in the office. Included in your backup is the Student Internship Program guidelines. Provisions were made for this program in the FY 88/89 budget, and were proposed in the FY 89/90 budget.

Staff recommends the approval of the Student Internship Program.

- 12) ACTION TO APPROVE A CONTRACT MODIFICATION FOR THE MASTER PLAN EIS:
Dames and Moore, the consultant preparing the Flood Control

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Master Plan EIS, has requested contract adjustments totaling \$10,018 for work not included under the existing contract. This work includes: 1) United States Fish and Wildlife Service (USFWS) coordination, and 2) Section 106 consultation.

The USFWS has requested a detailed briefing by the District to describe the project to their staff, answer questions and elicit their concerns. Also expected to be discussed is whether Fish and Wildlife Coordination Act studies or any Section 7 consultation procedures are required for the EIS. Dames and Moore estimates that the cost of preparing the necessary materials, making the presentation, and having a biologist visit representative facilities with USFWS staff will not exceed \$4,018.

Also, the EIS should state that the District intends to comply with Section 106 of the National Historic Preservation Act and describe how compliance will be achieved. The preferred alternative appears to be entering into a Programmatic Agreement with the Nevada State Historic Preservation Office (SHPO) which would detail the types of actions required for District projects to be in compliance. Dames & Moore estimates that the cost of preparing a presentation for SHPO and assisting the District in this initial consultation will be approximately \$6,000.

Consultation for compliance with Section 7 and Section 106 is outside of the requirements of the National Environmental Policy Act (NEPA), however, such compliance is mandatory, under other Federal regulations, before construction of regional facilities can commence. These issues can be adequately addressed in the EIS.

The contract amendment for \$10,018 is included in the backup for your review. Staff recommends that the Board approval of the amendment and authorize the Chairman to sign.

- 13) CITIZENS ADVISORY COMMITTEE REPORT AND ACTION TO APPROVE FLOOD AWARENESS WEEK ACTIVITIES:
Ann Zorn will present a report on the Citizens Advisory Committee activities at the meeting, including the proposed Flood Awareness Week programs.

Staff recommends approval of the program.

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14) **PROJECT STATUS REPORTS:**

The following monthly Project Status reports are included in the backup for your review:

- a) Projects managed by the District - February 14, 1989
- b) City of Las Vegas - February 10, 1989
- c) City of North Las Vegas - February 14, 1989
- d) Corps of Engineers --February 1, 1989

15) **FINANCIAL REPORTS:**

The following monthly financial reports are included for your review:

- a) Monthly Expenditure Report (286)
- b) Fund Balance Reports (286 & 443)
- c) Project Expense Summary Fund (443)
- d) Sales Tax Revenue Report


For Virginia Bax-Valentine, P.E.
General Manager/Chief Engineer

MINUTES
CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
February 9, 1989

MEETING NOTICES: Public Notices of this meeting were posted February 3, 1989, by Mr. A.J. Myles of the Clark County Regional Flood Control District in the following locations: North Las Vegas City Hall, Las Vegas City Hall, Clark County Bridger Building, and the Regional Flood Control District Offices.

CALL TO ORDER: The meeting was called to order at 8:55 a.m. by Chairman Bruce Woodbury in the City of Las Vegas Council Chambers with the following members present:

MEMBERS PRESENT: Bruce Woodbury, Chairman, Clark County
Ron Lurie, City of Las Vegas
Paul Christensen, Clark County
Bob Nolen, City of Las Vegas
Theron Goynes, City of North Las Vegas
Carlton Lawrence, City of Henderson
Chris Christensen, City of Boulder
Craig Pulsipher, City of Mesquite

STAFF: Virginia Bax-Valentine, P.E., General Manager/Chief Engineer
Gale Fraser, Assistant General Manager
Ellen Keller, Assistant to the General Manager
Melvin R. Whipple, Deputy District Attorney

MEMBERS ABSENT: None

INTERESTED PARTIES: Pat Pine, Las Vegas Valley Water District

APPROVAL OF MINUTES: Upon a motion by Mr. C. Christensen, the minutes of the regularly scheduled meeting of January 12, 1989 were unanimously approved.

ACTION TO AUTHORIZE STAFF TO NEGOTIATE AN AGREEMENT WITH THE LAS VEGAS VALLEY WATER DISTRICT TO COOPERATIVELY FUND A STUDY OF GROUNDWATER RECHARGE IN DETENTION BASINS: Ms. Bax-Valentine stated that staff has received numerous inquiries regarding the potential for groundwater discharge in flood control detention basins. She stated that this item was placed on the agenda for the Board to authorize staff to negotiate with the Las Vegas Valley Water District (LVVWD) to cooperatively fund a study to address the energy feasibility and the economics of groundwater recharge for stormwater.

Ms. Bax-Valentine stated that it is important to have the LVVWD's involvement because of their extensive technical experience and expertise in groundwater recharge.

In response to Mr. Lurie, Ms. Bax-Valentine replied that the recharge study would cost approximately \$40,000. The District would commit to \$20,000 and the LVVWD would match that amount. Chairman Woodbury questioned whether it is realistic to spend this amount of money on a recharge study at this time. Ms. Bax-Valentine stated that with the cost of water as such, it may not be economic at this time. Studies have been done in other areas where it was determined not to be economically feasible; however, it may become feasible in the future when water becomes scarce.

Discussion was held on the economic feasibility and benefits of cooperatively funding a recharge study. Mr. Woodbury stated that this issue was brought up numerous times during the campaign for approval of the funding source for the District.

In response to Mr. Lurie, Ms. Bax-Valentine explained that there is not a great deal of information regarding recharge available, particularly in arid regions such as the Las Vegas Valley. One of the purposes of the study is to provide information regarding the economics of recharge.

Mr. Pat Pine, Las Vegas Valley Water District, approached the Board. Chairman Woodbury asked if the LVVWD has a great deal of interest in using stormwater for groundwater recharge. Mr. Pine replied that the LVVWD has received numerous inquiries regarding recharge using flood control facilities. The LVVWD's preliminary opinion, without the study, is that its not likely to be economic under the present situation, and they have some concerns regarding water quality. He stated that he is not opposed to the study, but it is not high on the LVVWD's list of possible research alternatives regarding water management. Discussion followed.

Mr. Lurie made the motion to hold this item until the next meeting in order for additional information to be submitted to the Board.

Vote: 8 ayes, 0 nays
Motion Carried.

ACTION TO
APPROVE THE
FY 89-90 BUDGET
AND AUTHORIZE
STAFF TO SUBMIT:

Ms. Bax-Valentine stated that the proposed FY 89-90 budget was included in the backup material. She explained that the District is required by statute to update the Master Plan at least once every five years. The proposed budget includes funding for Master Plan updates of several areas. Revenues are expected to be approximately \$19,000,000. Approximately \$18,000,000 will comprise the budget for the Capital Improvement Program.

Mr. Lurie made the motion to approve the budget.

Vote: 8 ayes, 0 nays
Motion Carried.

PROJECT STATUS
REPORTS:

Ms. Bax-Valentine stated that the monthly status reports were included in the backup material.

No action was taken on this item.

FINANCIAL
REPORTS:

Ms. Bax-Valentine reported that the monthly expenditure report and fund balance reports were included in the backup for review. A list of projects funded to date was included along with a project expense summary. A summary report of revenues collected to date was also included for review.

Mr. Lurie made the motion to approve the financial reports.

Vote: 8 ayes, 0 nays
Motion Carried.

ADJOURNMENT:

The meeting adjourned at 9:08 a.m.

Respectfully submitted,


VIRGINIA BAX-VALENTINE, P.E.
General Manager/Chief Engineer

ATTEST: _____, 1989

BRUCE WOODBURY, Chairman

REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY
AGENDA ITEM

Subject: WAIVER OF THE TIMELINESS REQUIREMENT FOR A MOTION TO RECONSIDER UNDER ROBERT'S RULES OF ORDER TO ALLOW A MOTION TO RECONSIDER THE LAKE AT LAS VEGAS VARIANCE REQUEST
Petitioner BOULDER CITY COUNCILMAN CHRIS CHRISTENSEN
Recommendation: THAT THE BOARD WAIVE THE TIMELINESS REQUIREMENT FOR A MOTION TO RECONSIDER UNDER ROBERT'S RULES OF ORDER TO ALLOW A MOTION TO RECONSIDER THE LAKE AT LAS VEGAS VARIANCE REQUEST

Fiscal Impact:

NONE

Background:

This item has been placed on the agenda along with item 2 to meet the procedural requirements necessary to reconsider the Lake at Las Vegas variance request. The District Attorney's office is writing a formal opinion regarding the procedural requirements for the reconsideration, which will be distributed to you under separate cover.

Respectfully submitted,

CHRIS CHRISTENSEN
Board Member

T.C. AGENDA ITEM # Date:	FCD AGENDA ITEM # 1 Date: 3-09-89
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REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY
AGENDA ITEM

Subject: MOTION TO RECONSIDER THE LAKE AT LAS VEGAS VARIANCE REQUEST
Petitioner: BOULDER CITY COUNCILMAN CHRIS CHRISTENSEN
Recommendation: THAT THE BOARD APPROVE THE MOTION TO RECONSIDER THE LAKE AT LAS VEGAS VARIANCE REQUEST

Fiscal Impact:

NONE

Background:

This item has been placed on the agenda along with item 1 to meet the procedural requirements necessary to reconsider the Lake at Las Vegas variance request. The District Attorney's office is writing a formal opinion regarding the procedural requirements for the reconsideration, which will be distributed to you under separate cover.

Respectfully submitted,

T.C. AGENDA ITEM # . Date:	FCD AGENDA ITEM # 2 Date: 3-09-89
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CHRIS CHRISTENSEN
Board Member

REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY
AGENDA ITEM

Subject: RECONSIDERATION OF THE VARIANCE FOR THE LAKE AT LAS VEGAS
Petitioner: BOULDER CITY COUNCILMAN CHRIS CHRISTENSEN
Recommendation: THAT THE BOARD GRANT THE VARIANCE

Fiscal Impact:

NONE

Background:

The conditions and agreements discussed at the January 12, 1989 meeting are attached for your reconsideration. No new submittals have been received. Action on the variance request first appeared on the December 1988 Board agenda. Action was delayed until the January meeting at the request of the developer to allow them time to respond to Harza Engineer's review of the project. During the December meeting, the Board directed Harza to review the subsequent submittals prior to the January meeting. Harza has billed the District \$92,700 for their review. The developers have agreed to pay \$75,000 of that amount. The Board may want to consider requesting reimbursement of the additional \$17,700 review costs from the developer as a condition of the variance.

Respectfully submitted,

CHRIS CHRISTENSEN
Board Member

T.C. AGENDA ITEM # Date:	FCD AGENDA ITEM # 3 Date: 3-09-89
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CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

301 E. Clark Avenue, Suite 300

Las Vegas, Nevada 89101

(702) 455-3139

VIRGINIA BAX-VALENTINE, P.E.
General Manager

MEMORANDUM

TO: BOARD OF DIRECTORS, CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

FROM: VIRGINIA BAX-VALENTINE², P.E., GENERAL MANAGER/CHIEF ENGINEER

SUBJECT: LAKE AT LAS VEGAS - HARZA ENGINEERING CONTRACT

DATE: FEBRUARY 24, 1989

Harza Engineering has requested additional compensation for the expanded scope of services performed on the "Lake at Las Vegas" project review. Presented herewith is a summary of the background on the Harza contract, additional services performed, and staff's recommendation to resolve this issue.

The Board made a finding at its September 9, 1988 meeting that the District's Master Plan need not be amended to include the "Lake at Las Vegas" project. The Board determined at this meeting that a portion of the "Lake at Las Vegas" project is a floodway of the District and therefore a variance from the Uniform Regulations for the Control of Drainage will be required.

The Board, at its October 13, 1988 meeting, selected the consulting firm of Harza Engineering to review the "Lake at Las Vegas" project, authorized the Chief Engineer to negotiate a contract for engineering services with Harza Engineering, and authorized the Chief Engineer to negotiate a contract with the owner of the "Lake at Las Vegas" project for reimbursement of the review costs. The above authorization came in light of the need to conduct a review in a very short period of time and the unique nature of the project. Staff at this time had not received the application for the variance. However, it was apparent that upon the receipt of the application for the variance the District would have to respond within 60 days per the Uniform Regulations for the Control of Drainage.

The City of Henderson submitted a variance application on October 14, 1988. The submittal of the application on this date required that the Board respond by December 14, 1988, per the Uniform Regulations for the Control of Drainage. Staff had requested that due to the nature of this project more time be given to conduct a review. The developer and the City of Henderson were not amenable to staff's request.

The Board, at its November 10, 1988 meeting, approved agreements with the Lake at Las Vegas Joint Venture (LLVJV) and Harza Engineering. The Agreement between the District and the LLVJV contained provisions for \$67,700 to be deposited with the District for the cost of the Harza Engineering review. LLVJV also agreed to fund additional costs, up to and including a total cost for the review of \$75,000. The Agreement between the District and Harza Engineering was for a maximum amount of \$67,700 and included a Scope of Work with a schedule indicating a final presentation to the Board at the December meeting.

Board Members

Bruce L. Woodbury, *Chairman*, Clark County • Chris Christensen, *Vice-Chairman*, City of Boulder City
Carlton Lawrence, *Secretary*, City of Henderson • Paul J. Christensen, Clark County • Theron Goynes, City of North Las Vegas
Craig Pulsipher, City of Mesquite • Ron Lurie, City of Las Vegas • Bob Nolen, City of Las Vegas

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

Memorandum
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Page 2

Harza's draft report on the review of the "Lake at Las Vegas" project was received on December 2, 1988, and distributed immediately thereafter to members of the Citizens Advisory Committee, Technical Advisory Committee, and the Board. The draft report noted several deficiencies in the proposed design.

At the December 8, 1988 Board meeting, a representative of Harza Engineering was present to report on the results of their review of the "Lake at Las Vegas" project. The City of Henderson and the LLVJV approached the Board and requested that the Board continue the hearing on the variance request until the January 12, 1989 regular meeting. Reasons given to support the request for a continuance were to afford the City of Henderson and the LLVJV an opportunity to review the Harza report and address any possible concerns contained within the report. The Board also requested that the variance request be reconsidered by the Technical and Citizens Advisory Committees, and that Harza Engineering review the conditions of the variance prior to the January 12, 1989 meeting. The LLVJV verbally agreed at the meeting that any additional costs associated with Harza Engineering conducting further review would be borne by the LLVJV. Staff fully expected that the work covered under the contract with Harza Engineering would be completed by the December meeting. Since the request for a continuance was made at the meeting, a contract modification with Harza Engineering was not anticipated and could not be acted upon by the Board prior to the February meeting. Furthermore, there could not be, at this time, a good understanding of what further work would be required by Harza Engineering because the work required would be contingent upon the subsequent submittals by the LLVJV.

The month following the December 8, 1988 meeting required considerable time of staff and Harza Engineering based upon the numerous submittal by the LLVJV.

A listing of the submittals that required further review is as follows:

1. 12/09/88 - monitoring/maintenance cost estimate
2. 12/12/88 - bypass intake weir
3. 12/12/88 - dam and fuse plug embankment slopes
4. 12/14/88 - geologic explorations
5. 12/15/88 - water quality
6. 12/15/88 - inflow design flood
7. 12/16/88 - operation and maintenance manual
8. 12/16/88 - design details
9. 12/19/88 - routing and fuse plug configuration
10. 12/20/88 - design details (energy dissipator)
11. 12/20/88 - design details (battery to walls)
12. 12/20/88 - design details (auxiliary spillway)
13. 12/20/88 - design details (service spillway)
14. 12/23/88 - operation and maintenance manual
15. 12/23/88 - inflow design flood
16. 12/29/88 - response to telephone conference call
17. 12/30/88 - fuse plug
18. 12/30/88 - construction contract change orders
19. 01/04/89 - final comments on the technical review

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

Memorandum

February 24, 1989

Page 3

The previously listed submittals required additional review by staff and Harza Engineering. In the month following the December 8, 1988 meeting, various meetings were held by Harza Engineering and staff with LLVJV and the Technical and Citizens Advisory Committees. Harza also attended the January Board meeting. The work performed by Harza, as listed above, was beyond the scope of work contained within Harza's contract.

The District received a proposed contract amendment for expanded scope of services from Harza on January 30, 1989. The proposed amendment indicates an increase in compensation by \$25,000 from \$67,700 to \$92,700. The LLVJV has agreed, based upon the agreement with the District, to fund a total cost of up to \$75,000. Therefore, at this time, the amount not covered by the LLVJV for the Harza review is \$17,700 ($\$92,700 - \$75,000 = \$17,700$).

Mr. Walt Anderson, Harza's project manager, was out of the country on another project through February 20, 1989. Staff has withheld any action on the proposed contract amendment until discussions with Mr. Anderson can take place.

Staff recommends that the following actions be pursued in order to justly compensate Harza Engineering for the work performed in reviewing the "Lake at Las Vegas" project:

1. Staff will conduct conversations with Harza Engineering in an attempt to negotiate the \$97,700 downward.
2. Staff will ask that the LLVJV pay the difference between Harza's Contract and the amount negotiated for the additional work directly to Harza Engineers. The proposed contract amendment would then not need to be presented to the Board for their action. Payment for the additional contract work should be a condition of the variance if approved.

Staff will keep you abreast of the progress made in resolving the Harza Engineering fees.

CONDITIONS

- A.1. Agreement by the City of Henderson to own, maintain, and operate the dam.**
Submitted: No submittal to date
Not Submitted: No submittal to date
Agreed to submit: The developer, its successors or assignees will own, maintain, and operate the dam. This language will be provided in a contract between as yet undesignated parties. It is understood that if the Developer, its successors or assignees do not perform the maintenance and operation required, then the City of Henderson will intervene. Staff recommends that the contract stipulate that Henderson will be ultimately responsible
- A.2. Agreement by the City of Henderson to grant to the District and its entities the right to increase or decrease flood flows and sediment into the Lake.**
Submitted: The Developer agrees that the District has the right to increase or decrease flood flows and sediment into the Lake in accordance with the District's Master Plan and its amendments and will permit the District to do so. (Attached Agreement, No.1)
Not submitted: The City of Henderson granting to the District and its entities this right.
Agreed to submit: The Developer, its successors, or assignees agree that the District, Clark County, City of Henderson, City of Las Vegas, City of North Las Vegas, and other future entities established within the hydrographic area of the project have the right to increase or decrease stormwater flows, flood flows, sediment, and treated wastewater discharges into the Lake.
- A.3. Agreement by the City of Henderson to design the bridge over the inlet works to pass a 100-year event and to accomodate the 1/2 PMP event and the bridges over the spillways to handle the spillway design capacity.**
Submitted: The Developer agrees to design the bridge near the inlet works to pass a 100-year event and to not impede the 1/2 PMP event. (Attached Agreement, No.2) As required by the U.S. Army Corps of Engineers, the Developer agrees to design the bridges over the spillways to handle the spillway design capacity. (Attached Agreement, No. 3)
Not submitted: Agreement by City of Henderson to enforce this condition.
Agreed to submit: The developer, its successors or assignees will enforce this condition.
- A.4. Agreement by the City of Henderson to not request construction, repair, operation, and maintenance funds from the Regional Flood Control District for the lake, dam, spillways, bridges, and appurtenant facilities.**
Submitted: No submittal to date
Not submitted: No submittal to date
Agreed to submit: Nothing. The Developer and the City agree that since the project was found not be a flood control facility and cannot be included in the District's Master Plan, the project, by state statute does not and will not qualify for existing or future funding by the District.

- A.5. Agreement by the City of Henderson to meet any state and federal requirements for stormwater discharge permits at the Lake.**
Submitted: The Developer agrees to meet state and federal requirement for storm water discharge permits at the Lake. (Attached Agreement No. 4)
Not Submitted: Agreement by the City of Henderson to ensure that this condition is met. In the agreement submitted the word "any" has been omitted by the Developer.
Agreed to submit: Language stating that the Developer, its successors or assignees will ensure compliance with this condition. Also, the attorneys will resolve the word "any". In place of the word "any" the following words or phrases may be substituted.
- a. Applicable
 - b. Current or future
- A.6. Agreement by the City of Henderson to meet any current or future requirements of any applicable dam safety regulations.**
Submitted: The Developer agrees to comply with applicable dam safety regulations.
(Attached Agreement, No. 5)
Not Submitted: Agreement by the City of Henderson to meet this condition. Future requirements were omitted from the language submitted.
Agreed to submit: Language stating that the Developer, its successor or assignees will ensure this condition. Also, the attorney's will resolve the omission of the word "future". In its place, the following words or phrases may be substituted:
- a. any
 - b. applicable
 - c. current or future
- A.7. Agreement by the City of Henderson to address the impact of the Lake project on the cumulative environment impacts addressed in the Master Plan EIS.**
Submitted: Nothing
Not Submitted: Condition A.7
Agreed to submit: Nothing. The BLM found that the project was not a not to be a flood control facility and therefore did not require evaluation in the District's Environmental Impact Statement (EIS). This condition would have been necessary if the project had been in the District's Master Plan.
- A.8 Approval and acceptance by the City of Henderson of conditions A1-7 notwithstanding the variance condition, prior to granting a variance from the Uniform Regulations.**
Submitted: See other conditions
Not submitted: See other conditions
Agreed to submit: Nothing. This condition would have applied if the project was found to be a flood control facility and had been included in the Master Plan.

- B.1. Preparation of a dam break analysis and inundation maps upstream and downstream of the dam.
Submitted: "Dam Break Analysis of the Lake at Las Vegas Project," Tipton and Kalmbach, Inc. September, 1988.
Not submitted: Submitted materials were complete
Agreed to be submitted: Resolve issues identified in the Harza Report.
- B.2. Dedication of easements to the City of Henderson for inundation and sediment deposition within the inundation area.
Submitted: No submittal to date
Not submitted: No submittal to date
Agreed to submit: Preparation and execution of appropriate easements prior to issuance of and granting of construction permits by the City of Henderson (Attorney's are still determining who should be a party to the easements).
- B.3. Acquisition by the Developer of any easements or additional rights-of-way required as a result of backwater from the dam.
Submitted: "Engineering Report in Support of Flood Control Variance for Lake at Las Vegas Project," James M. Montgomery, Consulting Engineers, Inc., October 1988.
Not Submitted: Easement or rights-of-way required.
Agreed to submit: The Developer is preparing an agreement with Clark County to:
a. Fund Clark County's purchase of the upstream impacted levels for inclusion into a Wetland park.
b. Clark County will grant an inundation easement to the Developer
c. The Developer will provide maintenance of the land within the inundation area.
The City of Henderson will not issue any permits for the works at the head of the reservoir until right of occupancy has been resolved.
- B.4. Development of Flood Hazard Boundary Maps for the development surrounding the Lake, Base Flood Elevations (BFE's) and Federal Emergency Management Agency (FEMA) approval of these maps.
Submitted: "Engineering Report in Support of Flood Control Variance for The Lake at Las Vegas Project," James M. Montgomery, Consulting Engineers, Inc., October, 1988.
Not submitted: Federal Emergency Management Agency (FEMA) approval of these maps.
Agreed to submit: Resolve issues identified in Harza report. Obtain conditional letter of Map Revision (LLOMR) and/or letter of belief from FEMA within six months.
- B.5. Agreement by the City of Henderson that the City will not allow any changes to the stage, storage and discharge characteristics at the Lake project or modify the capacity of the inlet without the written permission of the District.
Submitted: No submittal to date
Not submitted: No submittal to date
Agreed to be submitted: Language that the Developer, its successors or assignees will address this condition.

- B.6. Development of regulatory elevation requirements above the BFE's for development surrounding the Lake.**
Submitted: "Engineering Report in Support of Flood Control Variance for Lake at Las Vegas Project," James M. Montgomery, Consulting Engineers, Inc., October, 1988
Not submitted: Submittals were complete
Agreed to submit: Resolve issues identified in the Harza Report
- B.7. A draft operation and maintenance manual acceptable to the District for the dam including the operating levels, impacts of various n-year floods on pond level, impact of sediment deposition in lake and inlet works, assessment of impact on frequency of spillway flows assuming failure or blockage of inlet works.**
Submitted: Draft operation and maintenance manual, Tipton and Kalmbach, Inc.,
Not submitted: Submittal was complete
Agreed to submit: Resolve issues identified in the Harza Report Include all operation and maintenance items in one manual. This will require the inclusion, as a minimum, the water quality plan and water monitoring program. The water quality plan and water monitoring program must be approved by the Clark County 208 Water Quality Board and other appropriate agencies.

New Condition:

Resolve all issues and/or design criteria brought forth in Harza Engineers report entitled "Technical Review of the Lake at Las Vegas Project." The resolution of these issues shall be to the District and Harza Engineers satisfaction.

VARIANCE CONDITIONS

LAKE AT LAS VEGAS

January 12, 1989

1. Execution of the AGREEMENT "Attachment 1" between the City of Henderson and the Lake at Las Vegas Joint Venture.
2. The AGREEMENT labeled "Attachment 1" must not be changed without the written consent of the District.
3. Execution of the EASEMENT "Attachment 2" as required as a condition of the Clark County 208 Amendment as presented today with the exception of paragraph 5, dealing with right-of-entry and reimbursement of funds, which paragraph can be modified but which must be finalized and approved by the Board of County Commissioners including a legal description identifying those areas for which the easement is granted below the elevation of 1,418 MSL.
4. Execution of the HOLD HARMLESS AGREEMENT "Attachment 3" which addresses the quality of the water in the lake.
5. Implement all the recommendations made in the HARZA Report dated January 5, 1989.
6. Acquisition by the developer of any lands or easements for property which floods as a results of the backwaters of the dam or bypass under flood conditions and execution of easements for and such lands in favor of the District and affected entities.
7. All the requirements of these Conditions must be satisfied prior to the issuance of any building or grading permits.

AGREEMENT

THIS AGREEMENT, entered this ____ day of January, 1989, by and between the City of Henderson, Nevada ("Henderson"), and the Lake at Las Vegas Joint Venture ("Developer").

WITNESSETH:

WHEREAS, the Developer proposes to develop a real estate project ("Project") on approximately 2243 acres within the city limits of Henderson which Project will include a dam and bypass system ("Dam and Bypass System") creating a recreational lake ("Lake"), hotel complexes, commercial and residential developments, golf courses, and ancillary facilities required for an integrated community; and

WHEREAS, the Clark County Regional Flood Control District ("District") requires the Developer to obtain a variance (the "Variance") from the Uniform Regulations for the Control of Drainage ("Regulations") in order to construct the Dam and Bypass System and Lake; and

WHEREAS, Henderson, having approved the Project, desires to enter into this Agreement with the Developer for the purpose of satisfying various conditions required by the District, an intended third-party beneficiary of this Agreement, as a prerequisite for the approval of the Variance.

NOW, THEREFORE, IN CONSIDERATION of the mutual promises and agreements contained herein, the parties hereto agree as follows:

1. Henderson and the Developer, its successors and assigns agree that the District, Clark County, Henderson, the City of Las Vegas, the City of North Las Vegas, and other future entities established within the hydrographic area of the Project, have the

right to increase or decrease wastewater discharges which meet the discharger's N.P.D.E.S. permit, stormwater flows, flood flows and sediment into the Lake.

2. The Developer, its successors and assigns agree to own, maintain and operate the dam and the Lake in accordance with the Conditions, Covenants and Restrictions as reviewed and approved by Henderson. Henderson agrees to enforce the Conditions, Covenants and Restrictions should intervention become necessary. Henderson and the Developer, its successors and assigns agree to obtain the approval of any local, state or federal agency having jurisdiction prior to implementation of any modifications or amendments to the Conditions, Covenants and Restrictions directly relating to the maintenance and operation of the dam and the Lake.

3. The Developer agrees to design the bridge near the inlet works to pass a one hundred-year storm event and to not impede the runoff from the one-half PMP (Probable Maximum Precipitation) event.

4. The Developer agrees to design the bridges over the spillways to handle the spillway design capacity as approved by the State Engineer.

5. The Developer, its successors and assigns agree to meet any applicable current or future State and Federal requirements for stormwater discharge permits at the Lake.

6. Henderson and the Developer, its successors and assigns will not request construction, repair, operation and maintenance funds from the District for the Lake, dam, spillways, bridges and appurtenant facilities inasmuch as the Project does not qualify for District funding.

7. The Developer, its successors and assigns agree to meet any applicable current or future dam safety regulations.

8. Henderson and the Developer agree that after the completion of the Dam and Bypass System, the Developer shall submit to Henderson record drawings certified by the Developer's engineer.

9. The Developer agrees to prepare an operation and maintenance manual relative to the Dam and Bypass System, a water quality monitoring program and a water quality plan and to submit the same to Henderson for Henderson's approval after completion of the Dam and Bypass System. Henderson agrees that it will not unreasonably withhold such approval.

10. The Developer agrees to dedicate an easement to Henderson, upon the District's granting of the Variance, for inundation and sediment deposition within the inundation area prior to the issuance by Henderson of any construction or building permits. Henderson will then dedicate such easement to the District, Clark County, the City of Las Vegas and the City of North Las Vegas in accordance with the conditions attached to the 208 amendment.

11. Henderson agrees to assist the Developer in the creation of Base Flood Elevations for the Lake and Flood Hazard Boundary Maps for the development surrounding the Lake and to assist the Developer in obtaining a Conditional Letter of Map Revision (CLOMR) from the Federal Emergency Management Agency (FEMA) for any revision of said maps. Henderson and the Developer agree to immediately seek such CLOMR and to make a reasonable attempt to secure such CLOMR within six (6) months of the District's granting of the Variance.

12. The Developer agrees to construct the Dam and Bypass System according to the plans submitted to the District and reviewed and modified as a result of the independent review conducted by Harza Engineering. Henderson and the Developer acknowledge that the District is not responsible for review or approval of such construction nor for ensuring compliance with such plans. Henderson and the Developer agree that any issues identified by Harza Engineering in their review of the Project, but remaining unresolved at the time of the granting of the Variance, will be resolved to the satisfaction of Henderson and the State Engineer.

13. The Developer agrees to abide by the hold-harmless Agreement attached hereto as Exhibit "___."

14. Henderson agrees to establish a sinking fund to be used to fund costs for stormwater treatment in the event that the Federal Environmental Protection Agency determines that more stringent stormwater treatment standards are required solely as a result of the creation of the Lake at Las Vegas. This sinking fund will be created by the diversion of a percentage of the tax revenues generated solely by the Lake at Las Vegas Project as herein described. The percentage of tax revenues diverted will be in an amount sufficient to generate Twenty Million Dollars (\$20,000,000) which is the amount that Henderson agrees to contribute to the costs for stormwater treatment as hereinabove described. The sinking fund will be maintained for a period of fifteen years commencing in 1989. At the end of the fifteen years herein identified, the City of Henderson will be allowed to utilize the fund proceeds.

15. The Developer agrees to contribute Two Million Dollars (\$2,000,000), in a manner to be agreed upon by the parties, in consideration of Henderson's agreeing to the establishment of the fund as herein described.

IN WITNESS WHEREOF, the undersigned parties have executed this Agreement in manner and form sufficient to bind them as of the date first written above.

LAKE AT LAS VEGAS JOINT VENTURE

TransNeva Limited Partnership
Managing General Partner

TransNeva Corporation
Managing General Partner

By: _____

Its: _____

THE CITY OF HENDERSON, NEVADA

By: _____

Its: _____

ATTEST:

Its: _____

Approved: _____

EASEMENT

THIS AGREEMENT made this _____ day of _____, 1989, by and between Lake at Las Vegas Joint Venture (hereinafter referred to as "Grantor"), the County of Clark (hereinafter referred to as "Grantee"), and the City of Henderson. The Clark County Sanitation District, the Clark County Regional Flood Control District, the City of Las Vegas and the City of North Las Vegas are Third Party Beneficiaries to this Easement Agreement.

WHEREAS, Grantor is the fee owner of certain real estate situated in the City of Henderson, County of Clark, State of Nevada, which real estate is legally described on Exhibit "A" attached hereto and incorporated herein by reference (hereinafter referred to as the "Property"; and

WHEREAS, a portion of the Property is located and serves as the present natural flow of the Las Vegas Wash and all of the wash and stream tributaries including nuisance water and wastewater discharges from the City of Las Vegas Sanitation Plant and the Clark County Sanitation District Plant which enter the Las Vegas Wash; and

WHEREAS, the Grantor desires to construct a dam and thereby create a lake in a location which will alter the natural flow of the existing Las Vegas Wash and its tributaries; and

WHEREAS, the Grantor further desires to construct an artificial mechanism to transport the nuisance, wastewater, natural and flood water flow of the Las Vegas Wash under the dam and lake which the Grantor desires to erect in the natural washbed; and

WHEREAS, per the Grantor's request, the Clark County 208 Water Quality Management Plan was amended to allow for construction of a Dam and Lake, however, as a condition of the Amendment to the 208 Water Quality Management Plan, Clark County has expressly required the Grantor to grant an easement for all

present and future flows of the Las Vegas Wash and all of the wash and stream tributaries including flood water, nuisance water and wastewater discharges.

NOW, THEREFORE, in consideration of the foregoing, and other good and valuable consideration, the receipt of which is hereby acknowledged, the parties agree as follows:

1. Grantor hereby grants and conveys to the County of Clark (Grantee) the City of Henderson, the Clark County Sanitation District, the Clark County Regional Flood Control District, the City of Las Vegas and the City of North Las Vegas, a perpetual easement of and over the easement premises for drainage and sedimentation deposit purposes including but not limited to all of the natural and flood water drainage, nuisance water and wastewater discharge from the City of Las Vegas and the Clark County Sanitation District that could occur in a maximum inundation including all objects which could be carried by natural and floodwater flow such as by way of example and not limitation, rocks, sediment, wastewater, plants, garbage or any other object capable of being moved or transported by a water flow, in, along and upon the easement premises.

2. The easement premises shall consist of all real property legally described in Exhibit "A" under a base elevation of 1418 feet above mean seal level.

3. The Grantor shall maintain and keep in good repair all of the easement premises including, but not limited to any artificial water flow mechanism, bypass pipelines or channel, installed to transport the flows described in Paragraph 1. Furthermore, the Grantor shall maintain the entire easement premises in a manner not to interfere or impede any and all nuisance, wastewater, natural or floodwater flows which may transverse the property together with the objects described in Paragraph 1.

4. Should the Grantor fail in its obligation to maintain the easement premises or any artificial water flow mechanism, bypass pipeline or artificial channel, the City of Henderson will immediately take action to maintain or repair the easement premises or the artificial water flow mechanism, bypass pipeline or artificial channel and in this regard the City of Henderson shall have the right to enter and remain on the easement premises to take any action necessary or to construct any structures which would fulfill the Grantor's obligation to keep the easement premises open to the flows described in Paragraph 1.

5. Without assuming any maintenance obligation, the Grantee, the Clark County Sanitation District and the Clark County Regional Flood Control District, shall have the right to enter and remain on the easement premises to take any emergency action necessary or to construct any structures needed in an emergency to insure that the flows described in Paragraph 1 are unimpeded. In the event that the Grantee, the Clark County Sanitation District, or the Clark County Flood Control District enter the property to take such emergency action necessary or to construct any structures needed in an emergency to insure that the flows described in Paragraph 1 are unimpeded, the City of Henderson and the Grantor shall be jointly and independently liable and responsible for all damages incurred and all costs of entry, maintenance and construction.

Further, without assuming any maintenance obligation, the Grantee, the Clark County Sanitation District, or the Clark County Regional Flood Control District shall in a non-emergency situation, have the right to enter and remain on the easement premises to take any action necessary or to construct any structures to insure that the flows described in Paragraph 1 are unimpeded. However, prior to exercising the right in a non-

emergency situation, the Grantee, the Clark County Sanitation District, or the Clark County Regional Flood Control District shall provide the Grantor and the City of Henderson with ninety (90) days advance notice. In the event that the Grantor or the City of Henderson provide notice to the Grantee, and subsequently begin and complete such action or construction necessary as defined by the Grantee within 180 days unless extended by Grantee, then the Grantee, the Clark County Sanitation District and the Clark County Regional Flood Control District shall not exercise their right to enter the premises. In the event these time periods are not met, the Grantee, the Clark County Sanitation District, or the Clark County Flood Control District may elect to enter the property to take any action necessary or to construct any structures to insure that the flows described in Paragraph 1 are unimpeded. In such an event, the City of Henderson and the Grantor shall be jointly and independently liable and responsible for all damages incurred and all costs of entry, maintenance and construction. For purposes of this section, an emergency shall be defined as any partial obstruction or blockage of the pipeline, bypass or intake facility, or dangerous condition regarding the dam. A non-emergency shall be defined as a increase in the flows described in Paragraph 1, which cause the pipes, bypass or intake facility to be unable to perform their required or approved function or a mandate or regulation from a State or Federal Agency requiring increased pollution treatment of sewage or stormwater which can be satisfied by increasing the capacity of the bypass system within the time frame specified to cure a non-emergency.

6. Grantor shall have the right to erect improvements, buildings and structures including a dam and a lake within the easement premises, however, Grantee, the Clark County Sanitation District, the Clark County Regional Flood Control District,

the City of Las Vegas and the City of North Las Vegas shall not be liable for any damage to the improvements, buildings or structures which may occur during the use of this easement from the flows or objects described in Paragraph 1.

7. All rights, title and privileges herein granted, including all benefits and burdens, shall run with the land and shall be binding upon and inure to the benefit of the parties hereto, their respective heirs, executors, administrators, successors, assigns and legal representatives.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the day and year first hereinabove written.

COUNTY OF CLARK

BY _____
CHAIRMAN, Board of County Commissioners

ATTEST:

LORETTA BOWMAN, County Clerk

CITY OF HENDERSON

BY _____
MAYOR

ATTEST:

CITY CLERK

LAKE AT LAS VEGAS JOINT VENTURE

BY _____
GENERAL MANAGER

STATE OF NEVADA)
)ss:
COUNTY OF CLARK)

On this _____ day of _____, 1988, personally appeared before me, a Notary Public in and for said County and State, _____, known to me to be the General

Manager of LAKE AT LAS VEGAS JOINT VENTURE, that executed the foregoing instrument, and who acknowledged to me that he did so freely and voluntarily and for the uses and purposes therein mentioned.

WITNESS my hand and official seal.

NOTARY PUBLIC in and for said
County and State, .

A G R E E M E N T

Lake at Las Vegas Joint Venture ("LLVJV"), in consideration of and, contingent upon, the Clark County Regional Flood Control District granting LLVJV a variance from Section 10.020(b)(3) and Section 10.020(b)(4) of the Uniform Regulations for the Control of Drainage relative to the Lake at Las Vegas Project (the "Project"), hereby agrees as follows:

1. LLVJV shall have no claim of any kind or nature against Clark County, the Clark County Sanitation District, the Clark County Regional Flood Control District, the City of Henderson, the City of Las Vegas, Boulder City and the City of North Las Vegas (herein individually and collectively referred to as the "Named Entities") arising out of or resulting from debris, waste water discharge or storm water entering the lake to be constructed on the Project (the "Lake").
2. LLVJV agrees to pay and shall indemnify and hold harmless the Named Entities against all costs and expenses of cleaning up the Lake as a result of discharges described in Paragraph 1 above into the Lake.
3. LLVJV shall execute in recordable form and shall deliver to the Named Entities for recording an easement in the form of Exhibit A attached hereto.
4. This Agreement shall be binding upon the successors and assigns of LLVJV.

Dated: January ____, 1989.

Lake at Las Vegas Joint Venture

by: TransNeva Limited Partnership
its Managing General Partner

by: TransNeva Corporation
its Managing General Partner

by: _____
Gregory G. Kreizenbeck
Chief Executive Officer

REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY

AGENDA ITEM

Subject: CONSULTANT SELECTION FOR A HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL
Petitioner: VIRGINIA BAX-VALENTINE, P.E., GENERAL MANAGER/CHIEF ENGINEER
Recommendation: SELECT A CONSULTING FIRM AND AUTHORIZE THE CHIEF ENGINEER TO NEGOTIATE A CONTRACT

Fiscal Impact:

\$150,000 (estimated)

Background:

The development and adoption of a Hydrologic and Drainage Design Manual is necessary to provide uniformity in drainage planning and design within the District, to improve the urban environment, and to provide a sound basis for the expenditure of future private, public, and regional monies.

The development of hydrologic criteria is an integral step in resolving the parameters required in generating discharge values for Flood Insurance purposes. Without the hydrologic criteria being thoroughly analyzed and appropriate parameters generated, staff expects that the issue of adopting discharge values for Flood Insurance purposes may never be resolved. The private and public engineers have recognized the need to adopt discharge values for Flood Insurance purposes that are consistent and that have no regard to corporate limits. The development of the manual will resolve this issue.

The manual will be used by governmental designers and reviewers, and consulting engineers. A draft scope of work for the manual is attached for your review.

T.C. AGENDA ITEM # 2 Date: 2-23-89	FCD AGENDA ITEM # 5 Date: 3-09-89
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Item
Technical Advisory Committee
February 14, 1989
Revised - March 2, 1989
Page 2

The District earmarked \$150,000 in the FY 88-89 budget for the development of this manual. Earlier in this fiscal year a Consulting Engineers Council (CEC) Subcommittee approached staff and offered their services in developing the manual at no charge. CEC has presented various drafts to staff and these drafts have been reviewed by staff and the Floodplain Management Committee. CEC has generated a useable working draft of the manual. However, clarification of the local and regional hydrologic parameters has been requested and the clarification of this complex issue can only be resolved by employing expertise in the fields of climatology, meteorology, hydrology and engineering.

Staff has received eleven Statements of Qualifications from consulting firms to prepare the Design Manual. An alphabetical listing of the firms submitting proposals is attached for your review. The proposals were evaluated by a Selection Committee made up of representatives of the City of Las Vegas, City of North Las Vegas, City of Henderson, Clark County and District staff. A short list of the top-ranked firms are listed alphabetically below:

- 1) Boyle Engineering Corporation
- 2) James M. Montgomery Consulting Engineers, Inc.
- 3) Simons, Li and Associates Inc./Wallace Engineers
- 4) WRC Engineering Inc./The Mark Group

STAFF RECOMMENDATION:

Staff recommends that the Board select one of the top-ranked firms and authorize the Chief Engineer to negotiate a contract with the selected firm.

Respectfully submitted,



VIRGINIA BAX-VALENTINE, P.E.
General Manager/Chief Engineer

T.C. AGENDA ITEM # 2 Date: 2-23 89	FCD AGENDA ITEM # 5 Date: 3-09-89
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HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

CONSULTANT SELECTION

Statements of Qualifications were received from eleven consulting firms. They are listed below alphabetically.

Boyle Engineering Corporation
CH2M Hill
Church Engineering, Inc.
CRS Consulting/McLaughlin Water Engineers, Inc.
Dames & Moore
James M. Montgomery Consulting Engineers, Inc.
The Keith Companies
Simons, Li and Associates, Inc.
Williamson and Schmid
Willdan Associates
WRC Engineering, Inc.

The four top ranked firms along with their subconsultants are alphabetically listed below.

TOP RANKED FIRMS

SUBCONSULTANTS

Boyle Engineering Corporation

None

James M. Montgomery Consulting Engineers, Inc.

Dr. James Cardle, UNLV
Dr. Evangelos Yfantis, UNLV
John James, UNR
Dr. Richard French, DRI

Simons, Li & Associates, Inc.

G.C. Wallace, Inc.

WRC Engineering, Inc.

The Mark Group
Dr. Richard Heggen, UNM
Loren Crow, Meteorologist

SCOPE OF WORK

"Hydrologic Criteria and Drainage Design Manual"

I. Goals

- A. To develop consistent uniform criteria for the development of rainfall-runoff models in Clark County and to provide specific and detailed criteria for design of flood control and drainage facilities.
- B. To reduce the effort required to prepare and review flood studies and designs by simplifying the methodologies and procedures and by providing example problems and solutions.
- C. To provide the necessary information required to prepare or review a drainage design within a single document that is complete, organized, easily referenced, and consistent within Clark County.
- D. To provide a hydrologic modeling and design criteria to assist engineers and designers in solving existing flood problems and preventing future drainage problems within the goals and objectives of the local communities and the District.

II. General

- A. Research by visitation and/or questionnaires with each governmental entity in Clark County.
- B. Research by visitation and/or questionnaires with private engineers designing flood control facilities for private and public clients within Clark County.
- C. The development of the manual will be directed by a technical review committee established for this purpose.
- D. Information hearings will be held during the development of the manual.
- E. A workshop for users of the manual will be given after the manual is adopted by the District.

III. Hydrologic Criteria

- A. Background
Numerous consultants have developed and/or reviewed hydrologic parameters developed over recent time. Local engineers feel that rainfall data, soil loss rates, and the discharge and volume values these parameters produce is excessive, especially for smaller watersheds.
- B. Research and review hydrologic data collected by the United States Geological Survey, Corps of Engineers, Nevada Division of Water Resources, and National Weather Service.
- C. Review previous studies and reports which include analyses of hydrologic data and use of hydrologic criteria.
- D. Develop hydrologic modeling parameters that are appropriate for watersheds of various sizes. Conduct test runs to verify similar results for recommended methods and parameters.

REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY
AGENDA ITEM

Subject: FEASIBILITY STUDY OF THE USE OF DETENTION BASINS AS GROUNDWATER RECHARGE SITES
Petitioner: VIRGINIA BAX-VALENTINE, P.E., GENERAL MANAGER/CHIEF ENGINEER
Recommendation: THAT THE BOARD INDEFINITELY TABLE THIS ITEM

Fiscal Impact:

NONE

Background:

It has been suggested that detention basins identified in the Master Plan could be designed to serve as sites for groundwater recharge using stormwater runoff. While such a scheme may be possible from an engineering point of view, questions regarding the economics of recharge, the potential for groundwater pollution, the legal ownership of storm runoff, and others remain largely unanswered. It may be beneficial at the early stages of implementing the Master Plan to determine if the use of flood control basins for groundwater recharge is practical.

The Las Vegas Valley Water District can provide more experience and expertise than the District in areas related to groundwater, and should be included in any undertaking to determine the potential for recharge. Given their expertise, it may also be appropriate that the Water District also manage the contract for such a study. Discussions with other flood control districts indicate that this practice is probably not feasible at this time. The LVVWD is not optimistic about recharge possibilities and does not perceive that they will benefit from such a study.

A study of groundwater recharge using stormwater was prepared for Albuquerque, New Mexico. The abstract of this study is attached for your review. This is the only study of its kind that the staff was able to locate. Estimates prepared by staff of the volume of runoff generated by storms have been attached for your information.

Respectfully submitted,

T.C. AGENDA ITEM # 2 Date: 1-26-89	FCD AGENDA ITEM # 6 Date: 3-09-89
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for 
VIRGINIA BAX-VALENTINE, P.E.
General Manager/Chief Engineer

SUMMARY OF ALBUQUERQUE, NEW MEXICO GROUNDWATER RECHARGE STUDY

In the early 1970's the Albuquerque Planning Department adopted a policy in favor of on-site detention storage and stormwater infiltration. This policy was adopted by the Albuquerque Metropolitan Flood Control Authority. A subsequent study determined "that this policy statement was well intended but generally not feasible."

The study investigated the use of spreading basins, recharge pits and recharge wells. In analyzing all the factors involved, the study concluded that infiltration of stormwater was not a suitable alternative for stormwater drainage. Included in the list of problems associated with this alternative were environmental problems (polluted sediments, dissolved chemicals, pesticides, and bacteriological pollutants), insect control, unappealing aesthetics, and safety considerations.

Technically, the study determined that the infiltration methods investigated were unpredictable in terms of performance. Economically, the cost of an infiltration system was estimated to be significantly higher than an open-channel drainage system. The study concluded that groundwater recharge with stormwater runoff was not an acceptable method.

DISC5:RECHARGE

Red Rock Detention Basin

Drainage area: 53 square miles

Storage capacity: 1700 Aft

CN: 90

Depth area reduction factor: .70

	<u>10-year</u>	<u>25-year</u>	<u>100-year</u>
point ppt	1.58"	2.05"	2.77"
reduced ppt	1.11"	1.44"	1.94"
excess ppt	0.40"	0.60"	1.03"
direct runoff	1130 Aft	1700 Aft	2911 Aft
	1.8M cu yds	2.7M cu yds	4.7M cu yds

Angel Park

Drainage area: 24 square miles

Storage Capacity: 1400 Aft

CN: 88

Depth-area reduction factor: .76

	<u>10-year</u>	<u>25-year</u>	<u>100-year</u>
point ppt	1.58"	2.05"	2.77"
reduced ppt	1.20"	1.56"	2.11"
excess ppt	0.40"	0.60"	1.00"
direct runoff	512 Aft	768 Aft	1280 Aft
	.83M cu yds	1.2M cu yds	2.21 cu yds

Drainage area: 200 square miles

CN: 85

Depth-area reduction factor: .605

	<u>10-year</u>	<u>25-year</u>	<u>100-year</u>
point ppt	1.58"	2.05"	2.77"
reduced ppt	0.96"	1.24"	1.68"
excess ppt	0.15"	0.30"	0.58"
direct runoff	1600 Aft	3200 Aft	6187 Aft
	2.6M cu yds	5.2M cu yds	10.0M cu yds

REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY

AGENDA ITEM

Subject: MASTER PLAN UPDATE FOR LAUGHLIN, NEVADA
Petitioner: VIRGINIA BAX-VALENTINE, P.E. GENERAL MANAGER/CHIEF ENGINEER
Recommendation: THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO SOLICIT PROPOSALS FOR THE PREPARATION OF A MASTER PLAN UNDATE FOR LAUGHLIN, NEVADA

Fiscal Impact:

\$100,000 - Flood Control Fund 286
95,000 - Remaining from AB 494 appropriation of Fort Mohave Funds

Background:

NRS 543.596 requires that the District's Master Plan be updated every five (5) years, taking into consideration any new information which is relevant to the Plan.

The Flood Control Facilities Plan for Hiko Springs Wash and Unnamed Wash in Laughlin will soon be completed. It is anticipated that the report prepared under that contract will be incorporated into a Master Plan update. The preparation of a Master Plan update for Bridge Canyon Wash would then complete the updates for the Laughlin area for the current 5-year period. A preliminary scope of work for this update is included for your review.

Respectfully submitted,

T.C. AGENDA ITEM # 4 Date: 2-23-89	FCD AGENDA ITEM # 7 Date: 3-09-89
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for 

VIRGINIA BAX-VALENTINE, P.E.
General Manager/Chief Engineer

DISC4:BDITM3-4

TECHNICAL ADVISORY COMMITTEE RECOMMENDATIONS

The Technical Advisory Committee is concerned that updates to the Master Plan might not provide more detail on flooding problems and recommended solutions than already exists in the Master Plan. With this in mind, Mr. Manning has requested that if this update is authorized, it present an analysis at the preliminary engineering design level of detail. He has further requested that the study address and attempt to resolve the flood hazard issues arising from FEMA's proposed mapping of the Bridge Canyon and Hiko Springs fans.

STAFF RECOMMENDATIONS

Staff concurs with Mr. Manning's requests and will ensure that members of his staff are afforded the opportunity to be actively involved in this study. Within the limits of the funds budgeted for this study, we are committed to having the most useful report produced as is possible.

It has been suggested that the Master Plan update of Laughlin include Area 3. However, inasmuch as there does not appear to be sufficient water available to allow that area to develop, its inclusion in the update would not be appropriate at this time.

PRELIMINARY BRIDGE CANYON WASH MASTER PLAN UPDATE
SCOPE OF WORK

A. Reconnaissance:

- (1) Collect existing topography, development flood studies and other data.
- (2) Collect right-of-way and land ownership information.
- (3) Coordinate with State, County and Federal agencies to develop out-fall alternatives
- (4) Review Master Plan alternatives and recommended plan.
- (5) Review Hiko Springs Wash and Unnamed Wash Facilities Plan

B. Hydraulic Analysis:

- (1) Verify Master Plan hydrology; evaluate hydrologic parameters.
- (2) Determine impact of flows from Bridge Canyon on Hiko Springs Wash.
- (3) Based on B.2 above, verify constructability of Bridge Canyon Detention Basin(s) and determine best site.
- (4) Recommend modifications to Hiko Springs Facilities Plan to accommodate flows from Bridge Canyon if appropriate.
- (5) Recommend approximate size, depth, storage, and configuration of basin(s), and appurtenant structures (levels, cut-off channels, outlet, spillway, etc.).
- (6) Determine approximate outflow hydrograph and 100-year peak flow for post-detention flows:
 - (a) Below basin.
 - (b) At each combining sub-basin for post-development conditions from the detention basin to the Colorado River (sub-basins will be delineated based on post-development drainage patterns).
- (7) Identify the need for sediment basin, energy dissipaters or other hydraulic structures.

C. Prepare Recommendations and Reports:

- (1) Describe work completed under Tasks 1.A and 1.B
- (2) Based on 1.B., recommend channel alignment and right-of-way requirements, provide map and legal descriptions or recommended facilities.

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT

AGENDA ITEM

Subject: THIRD SUPPLEMENTAL INTERLOCAL AGREEMENT FOR THE CONSTRUCTION OF A FLOOD CONTROL CHANNEL ON THE WESTERN TRIBUTARY OF THE LAS VEGAS WASH BETWEEN CRAIG RANCH GOLF COURSE AND CRAIG ROAD

**Petitioner:
GARY W. HOLLER, P.E.
DIRECTOR OF PUBLIC WORKS**

Recommendation:

IT IS RECOMMENDED THAT THE SUBJECT THIRD SUPPLEMENTAL INTERLOCAL AGREEMENT BE APPROVED.

Fiscal Impact:

THE EXISTING SECOND SUPPLEMENTAL INTERLOCAL AGREEMENT WILL BE INCREASED BY \$_____.

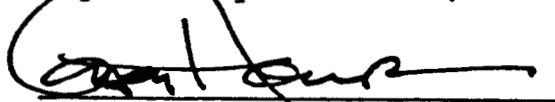
Background:

By Interlocal Agreement dated March 1, 1988, the Clark County Regional Flood Control District agreed to fund the construction of the Western Tributary of the Las Vegas Wash between Craig Ranch Golf Course and Craig Road. The District is to provide \$595,350 under the Interlocal Agreement which is to be matched with \$643,200 from an EDA grant.

By letter dated March 8, 1988 the Federal Emergency Management Agency notified North Las Vegas of its intention to use Corps of Engineers rainfall/runoff data rather than the data that had been generated locally. This FEMA decision had the effect of increasing the flows in the subject project.

(Continued on Page 2)

Respectfully submitted,



T.C. AGENDA	CCRFCD AGENDA
ITEM # 5a	ITEM # 8 a
Date 2-23-89	Date 3-09-89

Third Supplemental Interlocal Agreement
Flood Control Channel - Las Vegas Wash
Craig Road and Alexander Road
Page 2

Subsequently, the Interlocal Agreement was modified to allow for redesign of the Western Tributary to accommodate the anticipated increased flows. The amount of funding provided by the Interlocal Agreement was not increased.

A Second Supplemental Interlocal Agreement provided the necessary engineering and construction funds for the increased channel size. The funds were obtained by reducing the scope of the Las Vegas Wash ("A" Channel) project (NLVV-6) by an amount equivalent to the total increased cost. The original amount of \$1,000,000 was increased by \$247,560 to \$1,247,560.

Bids have been received and the low bidder has exceeded the amount budgeted by \$_____. It is therefore recommended that the previous interlocal agreements be modified to provide this amount plus contingencies.

ccfcd3rd.sni

THIRD SUPPLEMENTAL INTERLOCAL AGREEMENT

THIS AGREEMENT made and entered into as of the _____ day of _____, 1988 by and between the Clark County Regional Flood Control District hereinafter referred to as "DISTRICT", the County of Clark hereinafter referred to as "COUNTY", the City of Las Vegas, a municipal corporation, the City of Henderson, a municipal corporation, and the City of North Las Vegas, a municipal corporation hereinafter referred to as "CITY".

W I T N E S S E T H

WHEREAS, pursuant to Chapter 543 of the Nevada Revised Statutes a project for the construction of a flood control channel on the Western Tributary of the Las Vegas Wash between Craig Ranch Golf Course and Craig Road, located totally within the CITY has been approved by the DISTRICT; and,

WHEREAS, pursuant thereto, an INTERLOCAL AGREEMENT was entered into during March 1988 between the Clark County Regional Flood Control District, the County of Clark and the City of North Las Vegas; and,

WHEREAS, a SUPPLEMENTAL INTERLOCAL AGREEMENT was entered into during month of May, 1988 between the Clark County Regional Flood Control District, the County of Clark, the City of Las Vegas and the City of North Las Vegas; and,

WHEREAS a SECOND SUPPLEMENTAL AGREEMENT was entered into during month of June, 1988 between the Clark County Regional Flood Control District, the County of Clark, the City of Las Vegas and the City of North Las Vegas; and,

WHEREAS, it is desired to supplement the aforementioned SECOND SUPPLEMENTAL INTERLOCAL AGREEMENT to provide additional funds for construction.

NOW THEREFORE, in consideration of the premises and the terms contained herein, the Clark County Regional Flood Control District agrees to modify the SECOND SUPPLEMENTAL INTERLOCAL AGREEMENT as follows:

1. SECTION II - PROJECT COSTS is deleted in its entirety and the following is inserted in lieu thereof:

1. Cost of construction of the herein described project as funded by this INTERLOCAL AGREEMENT shall not exceed \$_____ including change orders and supplemental agreements.
2. Engineering design and right of way acquisition shall not to exceed \$39,000. Funds not used for this purpose may be applied to construction cost as long as the total amount covered by this INTERLOCAL AGREEMENT does not exceed \$_____.
3. Contract supervision and administration, field staking, construction inspection and testing to insure compliance with contract documents of a cost not to exceed \$80,000 or eight percent (8%) of the actual cost of construction, whichever is less. Funds not used for this purpose may be applied to construction cost as long as the total amount covered by this INTERLOCAL AGREEMENT does not exceed \$_____.
4. No funds provided by this INTERLOCAL AGREEMENT shall be used for construction until after July 1, 1988. If it becomes necessary to increase any of the amounts specified above, a written request with justification will be submitted to the DISTRICT. If approved, a supplemental agreement will be executed. In any event, however, the maximum amount to be funded by the DISTRICT by this INTERLOCAL AGREEMENT shall not exceed the sum of \$_____.

2. The City of Henderson in signing this THIRD SUPPLEMENTAL INTERLOCAL AGREEMENT, is also ratifying and confirming the provisions of the INTERLOCAL AGREEMENT of March 1988, the SUPPLEMENTAL INTERLOCAL AGREEMENT of May 1988 and the SECOND SUPPLEMENTAL INTERLOCAL AGREEMENT dated June 1988.

3. The remainder of the original INTERLOCAL AGREEMENT, the SUPPLEMENTAL INTERLOCAL AGREEMENT and the SECOND SUPPLEMENTAL INTERLOCAL AGREEMENT shall remain unchanged.

CLARK COUNTY

Date of Commission Action:

BY:

BRUCE WOODBURY
Chairman

ATTEST:

LORETTA BOWMAN
County Clerk

CITY OF NORTH LAS VEGAS

Date of Council Action:

BY:

JAMES K. SEASTRAND
Mayor

ATTEST:

ESTHER V. BORDEN
City Clerk

CITY OF LAS VEGAS

Date of Commission Action:

BY:

RON LURIE
Mayor

ATTEST:

Kathleen M. Tighe
City Clerk

CITY OF HENDERSON

Date of Commission Action:

BY:

LORNA KESTERSON
Mayor

ATTEST:

Dorothy Vondenbrink
City Clerk

CLARK COUNTY REGIONAL FLOOD
CONTROL DISTRICT

Date of District Action:

BY:

BRUCE WOODBURY
Chairman

ATTEST:

MELVIN R. WHIPPLE
Deputy District Attorney

3SUPAGR.UMC

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT

AGENDA ITEM

Subject: THIRD SUPPLEMENTAL INTERLOCAL AGREEMENT FOR THE CONSTRUCTION OF A FLOOD CONTROL CHANNEL ON THE WESTERN TRIBUTARY OF THE LAS VEGAS WASH BETWEEN CRAIG ROAD AND ALEXANDER ROAD

**Petitioner:
GARY W. HOLLER, P.E.
DIRECTOR OF PUBLIC WORKS**

Recommendation:

IT IS RECOMMENDED THAT THE SUBJECT THIRD SUPPLEMENTAL INTERLOCAL AGREEMENT BE APPROVED.

Fiscal Impact:

THE EXISTING SECOND SUPPLEMENTAL INTERLOCAL AGREEMENT WILL BE INCREASED BY \$ _____.

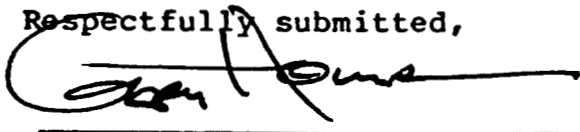
Background:

By Interlocal Agreement dated December 1, 1987, the Clark County Regional Flood Control District agreed to fund the construction of the Western Tributary of the Las Vegas Wash between Craig Road and Alexander Road. The District is to provide \$1,000,000 under the Interlocal Agreement.

By letter dated March 8, 1988 the Federal Emergency Management Agency notified North Las Vegas of its intention to use Corps of Engineers rainfall/runoff data rather than the data that had been generated locally. This FEMA decision had the effect of increasing the flows in the subject project.

(Continued on Page 2)

Respectfully submitted,



T.C. AGENDA
ITEM # 5b
Date 2-23-89

CCRFCD AGENDA
ITEM # 8b
Date 3-09-89

Second Supplemental Interlocal Agreement
Flood Control Channel - Las Vegas Wash
Craig Ranch Golf Course and Craig Road
Page 2

Subsequently, the Interlocal Agreement was modified to allow for redesign of the Western Tributary to accommodate the anticipated increased flows. The amount of funding provided by the Interlocal Agreement was not increased.

A Second Supplemental Interlocal Agreement provided the necessary engineering and construction funds for the increased channel size. The funds were obtained by reducing the scope of the Las Vegas Wash ("A" Channel) project (NLVV-6) by an amount equivalent to the total increased cost. The original amount of \$595,300 was increased by \$256,000 to \$851,300.

Bids have been received and the low bidder has exceeded the amount budgeted by \$_____. It is therefore recommended that previous interlocal agreements be modified to provide this amount plus contingencies.

CCFCD3RD.UMC

THIRD SUPPLEMENTAL INTERLOCAL AGREEMENT

THIS AGREEMENT made and entered into as of the _____ day of _____, 1988 by and between the Clark County Regional Flood Control District hereinafter referred to as "DISTRICT", the County of Clark hereinafter referred to as "COUNTY", the City of Las Vegas, a municipal corporation, the City of Henderson, a municipal corporation, and the City of North Las Vegas, a municipal corporation hereinafter referred to as "CITY".

W I T N E S S E T H

WHEREAS, pursuant to Chapter 543 of the Nevada Revised Statutes a project for the construction of a of a flood control channel on the Western Tributary of the Las Vegas Wash between Craig Road and Alexander Road, located totally within the CITY has been approved by the DISTRICT; and,

WHEREAS, pursuant thereto, an INTERLOCAL AGREEMENT was entered into during December 1987 between the Clark County Regional Flood Control District, the County of Clark and the City of North Las Vegas; and,

WHEREAS, a SUPPLEMENTAL INTERLOCAL AGREEMENT was entered into during month of May, 1988 between the Clark County Regional Flood Control District, the County of Clark, the City of Las Vegas and the City of North Las Vegas; and,

WHEREAS, a SECOND SUPPLEMENTAL AGREEMENT was entered into during month of June, 1988 between the Clark County Regional Flood Control District, the County of Clark, the City of Las Vegas, and the City of North Las Vegas; and,

WHEREAS, it is desired to supplement the aforementioned SECOND SUPPLEMENTAL INTERLOCAL AGREEMENT to provide additional funds for construction.

NOW THEREFORE, in consideration of the premises and the terms contained herein, the Clark County Regional Flood Control District agrees to modify the SECOND SUPPLEMENTAL INTERLOCAL AGREEMENT as follows:

1. SECTION II - PROJECT COSTS is deleted in its entirety and the following is inserted in lieu thereof:

1. Cost of construction of the herein described project as funded by this INTERLOCAL AGREEMENT shall not exceed \$ _____ including change orders and supplemental agreements.
2. Engineering design not to exceed \$26,000. Funds not used for this purpose may be applied to construction cost as long as the total amount covered by this INTERLOCAL AGREEMENT does not exceed \$ _____.
3. Contract supervision and administration, field staking, construction inspection and testing to insure compliance with contract documents of a cost not to exceed \$80,000 or eight percent (8%) of the actual cost of construction, whichever is less. Funds not used for this purpose may be applied to construction cost as long as the total amount covered by this INTERLOCAL AGREEMENT does not exceed \$ _____.
4. No funds provided by this INTERLOCAL AGREEMENT shall be used for construction until after July 1, 1988. If it becomes necessary to increase any of the amounts specified above, a written request with justification will be submitted to the DISTRICT. If approved, a supplemental agreement will be executed. In any event, however, the maximum amount to be funded by the DISTRICT by this INTERLOCAL AGREEMENT shall not exceed the sum of \$ _____.

2. The City of Henderson in signing this THIRD SUPPLEMENTAL INTERLOCAL AGREEMENT, is also ratifying and confirming the provisions of the INTERLOCAL AGREEMENT of December 1987, the SUPPLEMENTAL INTERLOCAL AGREEMENT of May 1988 and the SECOND SUPPLEMENTAL INTERLOCAL AGREEMENT dated June 1988.

3. The remainder of the original INTERLOCAL AGREEMENT, the SUPPLEMENTAL INTERLOCAL AGREEMENT, and the SECOND SUPPLEMENTAL INTERLOCAL AGREEMENT shall remain unchanged.

Date of Commission Action:

CLARK COUNTY

BY: _____
BRUCE WOODBURY
Chairman

ATTEST:

LORETTA BOWMAN
County Clerk

Date of Council Action:

CITY OF NORTH LAS VEGAS

BY: _____
JAMES K. SEASTRAND
Mayor

ATTEST:

ESTHER V. BORDEN
City Clerk

Date of Council Action:

CITY OF LAS VEGAS

BY: _____
RON LURIE
Mayor

ATTEST:

Kathleen M. Tighe
City Clerk

Date of Commission Action:

CITY OF HENDERSON

BY: _____
LORNA KESTERSON
Mayor

ATTEST:

Dorothy Vondenbrink
City Clerk

CLARK COUNTY REGIONAL FLOOD
CONTROL DISTRICT

Date of District Action:

BY:

BRUCE WOODBURY
Chairman

ATTEST:

MELVIN R. WHIPPLE
Deputy District Attorney

3SUPAGR.SNI

REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY

AGENDA ITEM

Subject:

SUPPLEMENTAL INTERLOCAL AGREEMENT FOR WARM SPRINGS BRIDGE AND STEPHANIE STREET STRUCTURE - PITTMAN WASH CHANNEL

Petitioner:

MARK CALHOUN, PUBLIC WORKS DIRECTOR

Recommendation:

THAT THE CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT APPROVE THE SUPPLEMENTAL INTERLOCAL AGREEMENT

Fiscal Impact:

The existing Interlocal Agreement will be increased by \$165,400.

Background:

This Agreement is to increase the amount of funding for the Stephanie Street structure and the Warm Springs Road Bridge across the Pittman Wash Channel. This increase results from the need for construction of channel improvements associated with the Stephanie Street Structure and an increase in the cost estimate from the design engineers for both bridges.

The Interlocal Agreement was for \$916,000. The Supplemental Interlocal Agreement will be for \$1,081,400, or an increase of \$165,400.

Respectfully submitted,



MARK CALHOUN
Public Works Director

T.C. AGENDA	FCD AGENDA
ITEM# 5c	ITEM# 8c
Date: 2-23-89	Date: 3-09-89

AMENDMENT TO INTERLOCAL AGREEMENT

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3 THIS AMENDMENT TO INTERLOCAL AGREEMENT (the "Amendment" herein), made and
4 entered into this _____ day of March, 1989, by and between the CLARK COUNTY
5 REGIONAL FLOOD CONTROL DISTRICT, a flood control district duly created,
6 organized and existing under and by virtue of Chapter 543 of the Nevada
7 Revised Statutes (hereinafter referred to as the "District"), and the City of
8 Henderson, a municipal corporation hereinafter referred to as "City".

W I T N E S S E T H

9
10 WHEREAS, the District and the City have heretofore, on the 21st day of
11 June, 1988, entered into that certain Interlocal Agreement (the "Agreement"
12 herein) pursuant to which the District agreed to finance, and the City agreed
13 to design and construct two bridges associated with the Pittman Wash Channel.
14 The basic improvements shall consist of flood water facilities including a
15 bridge across Stephanie Street (A2-09-17,2612), a bridge across Warm Springs
16 Road (A2-09-31,2608), channel structures and channel access and other
17 appurtenances as may be necessary to control floodwaters; and

18 WHEREAS, the final design for the project has been completed, the City
19 desires to proceed with the construction of the improvements included in the
20 Agreement, and the District desires to finance such construction in accordance
21 with the terms and conditions that are hereinafter set forth; and

22 WHEREAS, the Agreement provides for a total construction cost of the
23 Stephanie Street structure to be not in excess of \$558,000; and

24 WHEREAS, the cost estimate for the construction of this structure is
25 \$691,500; and

26 WHEREAS, the Agreement provides for a total construction cost of the Warm
27 Springs Road Bridge to be not in excess of \$358,000; and

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WHEREAS, the cost estimate for the construction of this bridge is \$389,000; and

WHEREAS, the Agreement provides that a supplemental agreement will be executed, if funds in excess of those specified in Section II of the Agreement are needed, upon approval of a written request to the District from the City; and

WHEREAS, a written request along with justification for an increase in funding has been provided to the District;

NOW, THEREFORE, for and in consideration of the premises and the terms contained herein, the parties agree as follows:

1. Section II of the Agreement is hereby amended to read as follows:

SECTION II - PROJECT COSTS

The DISTRICT agrees to fund project costs within the limits specified below:

- 1. Construction costs of the Stephanie Street structure shall not exceed \$691,500.
- 2. Construction costs of the Warm Springs Bridge shall not exceed \$389,000.

The construction cost for this project shall be as follows:

	<u>Construction</u>
Stephanie Street Structure	\$691,500
Warm Springs Bridge	\$389,000

If it becomes necessary to increase any of the amounts specified above, a written request with justification will be submitted to the District. If approved, a supplemental agreement will be executed. In any event, however, the maximum amount to be funded by the District by this Interlocal Agreement shall not exceed the sum of \$1,081,400.

CONFIDENTIAL

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2. Except as the same is hereinabove expressly amended, the Agreement, and each of the provisions thereof, shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused this Amendment to be executed by their duly authorized representatives the day and year first above written.

CLARK COUNTY

Date of Commission Action:

BY: _____
BRUCE WOODBURY

ATTEST:

LORETTA BOWMAN, County Clerk

CITY OF HENDERSON

Date of Council Action:

BY: _____
LORNA KESTERSON, Mayor

ATTEST:

DOROTHY A. VONDENBRINK,
City Clerk

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

Date of District Action:

BY: _____
BRUCE WOODBURY, Chairman

ATTEST:

VIRGINIA BAX-VALENTINE
General Manager, CCRPCD

APPROVED AS TO FORM:

MELVIN WHIPPLE
Deputy District Attorney

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM

Subject: AWARD OF BID TO CONSTRUCT A FLOOD CONTROL CHANNEL ON THE WESTERN TRIBUTARY OF THE LAS VEGAS WASH BETWEEN CRAIG RANCH GOLF COURSE AND CRAIG ROAD

Petitioner:

GARY W. HOLLER, P.E.
DIRECTOR OF PUBLIC WORKS

Recommendation:

THE RECOMMENDED AWARD WILL BE PROVIDED AT THE FEBRUARY 23, 1989 CCRFCD TECHNICAL COMMITTEE MEETING

Fiscal Impact:

BID TABULATIONS WILL BE PROVIDED AT THE CCRFCD TECHNICAL COMMITTEE MEETING.

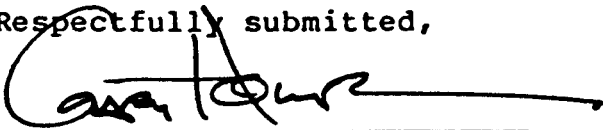
Background:

The subject flood control channel is funded by a \$643,200 EDA grant and \$851,350 from the CCRFCD. A supplemental interlocal agreement has been included in the February 23, 1989 CCRFCD Technical Committee agenda in the event that the bids exceed these amounts.

Bids for this concrete lined channel will be opened on March 3, 1989.

CCFCDAWD.MEN

Respectfully submitted,



T.C. AGENDA ITEM # 6a Date 2-23-89	CCRFCD AGENDA ITEM #9 a Date 3-09-89
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CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT

AGENDA ITEM

Subject: AWARD OF BID TO CONSTRUCT A FLOOD CONTROL CHANNEL ON THE WESTERN TRIBUTARY OF THE LAS VEGAS WASH BETWEEN CRAIG ROAD AND ALEXANDER ROAD

Petitioner:
GARY W. HOLLER, P.E.
DIRECTOR OF PUBLIC WORKS

Recommendation:

THE RECOMMENDED AWARD WILL BE PROVIDED AT THE FEBRUARY 23, 1989 CCRFCD TECHNICAL COMMITTEE MEETING

Fiscal Impact:

BID TABULATIONS WILL BE PROVIDED AT THE CCRFCD TECHNICAL COMMITTEE MEETING.

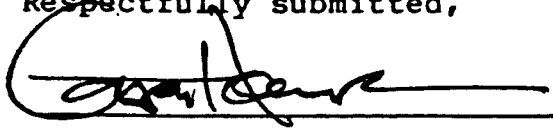
Background:

The subject flood control channel is funded by the CCRFCD. \$1,247,560 has been assigned to the construction of this channel by interlocal agreements. A supplemental interlocal agreement has been included in the February 23, 1989 CCRFCD Technical Committee agenda in the event that the bids exceed the budgeted amount.

Bids for this concrete lined channel will be opened on March 3, 1989.

CCFCDAWD.SNI

Respectfully submitted,



T.C. AGENDA
ITEM #6b
Date 2-23-89

CCRFCD AGENDA
ITEM # 9b
Date 3-09-89

REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY

AGENDA ITEM

Subject:

MEADOWS DETENTION BASIN - PHASE II & III

Petitioner:

CITY OF LAS VEGAS

Recommendation:

Award of bid to Las Vegas Paving in the amount of \$2,649,592.00

Fiscal Impact:

Clark County Bond Issue -- \$ 2,422,698.91
CCRFCD -- \$ 226,893.09

Background:

Meadows Detention Basin Phase II & III is the collection system for the Meadows Detention Basin Phase I. That portion of the collection system in the Alta Drive/Valley View Blvd. intersection will be funded by CCRFCD.

Respectfully submitted,

T.C. AGENDA	FCD AGENDA
ITEM# 6c	ITEM# 9c
Date:	Date:
2-23-89	3-9-89

BID ABSTRACT & AWARD RECOMMENDATION

PAGE # 1

BID TITLE: MEADOWS DETENTION BASIN PHASES 2 & 3		LAS VEGAS PAVING		D.A. RINGS CONST.		TAB CONTRACTORS		
BID # 89.1715.01		1770 Industrial Rd. Las Vegas, NV 89102		2600 L.V. Blvd. No. H.L.V. NV 89030		3617 H. 5th Street H.L.V. NV 89030		
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
REVISED BID SCHEDULE PHASE 2 AND PHASE 3								
BASE BID ITEMS								
1.	N/A	Construction Conflicts and Additional Work-Phase 2 & 3		100,000.00		100,000.00		100,000.00
2.	L.S.	Mobilization-Phase 2 & 3		250,000.00		293,500.00		140,000.00
3.	L.S.	Construction Surveying		12,000.00		11,000.00		20,000.00
SUBTOTAL ITEMS 1 THRU 3:				362,000.00		404,500.00		260,000.00
BID SCHEDULE PHASE 2.								
201	38 LF	84-Inch RCP from Sta. 14+ 25 to 14 + 63, complete and in place for the unit price of:	357.00	13,566.00	300.00	11,400.00	410.00	15,580.00
2-2	L.S.	Fulton N & S Drop Inlets & man- hole at Sta. 14 + 62.95, complete and in place for the lump sum amount of:		30,300.00		48,000.00		40,000.00
2-3	482 LF	78" RCP, Sta. 14 + 63 to 14 + 93.32 & Sta. 14 + 93.32 to 19 + 45, complete and in place for the unit price of:	301.00	145,082.00	300.00	144,000.00	420.00	202,440.00

BID ABSTRACT & AWARD RECOMMENDATION

PAGE #1 A

BID TITLE: MEADOWS DETENTION BASIN PHASES 2 & 3	FREHNER CONSTRUCTION 124 W. Brooks Ave. N.L.V. NV 89030	WELLS CARGO, INC. 7770 W. Spring Mtn. Las Vegas, NV 89117	WESTERN UTILITY CONTR. 800 S. Main Pleasant Grove, UT 84062
BID # 89-1715-01			

ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
REVISED BID SCHEDULE PHASE 2 AND PHASE 3								
BASE BID ITEMS								
1.	N/A	Construction Conflicts and Additional Work-Phase 2 & 3		100,000.00		100,000.00		100,000.00
2.	L.S.	Mobilization-Phase 2 & 3		279,950.00		50,000.00		375,000.00
3.	L.S.	Construction Surveying		35,000.00		9,905.00		20,000.00
SUBTOTAL ITEMS 1 THRU 3:				414,950.00		159,905.00		495,000.00
BID SCHEDULE PHASE 2								
2-1	38 LF	84-Inch RCP from Sta. 14+ 25 to 14 + 63, complete and in place for the unit price of:	306.00	11,628.00	310.00	11,780.00	370.00	14,060.00
2-2	L.S.	Fulton N & S Drop Inlets & man-hole at Sta. 14 + 62.95, complete and in place for the lump sum amount of:		50,400.00		40,000.00		30,000.00
2-3	482 LF	78" RCP, Sta. 14 + 63 to 14 + 93.32 & Sta. 14 + 93.32 to 19 + 45, complete and in place for the unit price of:	315.00	151,830.00	300.00	144,600.00	320.00	154,240.00

BID ABSTRACT & AWARD RECOMMENDATION

PAGE # 2

BID TITLE: MEADOWS DETENTION BASIN PHASES 2 & 3			LAS VEGAS PAVING		WAX RIGGS CONST.		TAB CONTRACTORS	
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
2-4	L.S.	Precast 78" RCP bend, Sta. 14 + 93.32 complete and in place for the lump sum amount of:		3,000.00		3,200.00		3,000.00
2-5	L.S.	Rrecast 78" RCP tee with Type A manhole Sta. 19 + 32 and Precast transition, 78" RCP to 6' x 5' RCB, Sta. 19 + 45, complete and in place for the lump sum amount of:		6,400.00		6,100.00		10,000.00
2-6	186 LF	6' x 5' RCB; Sta. 19 + 45 to 21 + 30.70, complete and in place for the unit amount of:	328.00	61,008.00	283.00	52,638.00	390.00	72,540.00
2-7	L.S.	Precast 6' x 5' RCB bend, Sta. 20 + 76.60, complete and in place for the lump sum amount of:		2,700.00		3,000.00		3,000.00
2-8	L.S.	Junction box structure at Sta. 21 + 30.70 complete and in place for the lump sum amount of:		11,300.00		24,500.00		20,000.00
2-9	54 LF	Precast 6' x 3' RCB culvert across Fulton Place connecting to the junction box structure at Sta. 21 + 30.70, complete and in place for the unit amount of:	305.00	16,470.00	258.00	13,932.00	440.00	23,760.00

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE: MEADOWS DETENTION BASIN PHASES 2 & 3			FREHNER CONSTRUCTION		WELLS CARGO		WESTERN UTILITY CONTR.	
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
2-4	L.S.	Precast 70" RCP bend, Sta. 14 + 93.32 complete and in place for the lump sum amount of:		3,360.00		4,000.00		7,000.00
2-5	L.S.	Precast 78" RCP tee with Type A manhole Sta. 19 + 32 and Precast transition, 78" RCP to 6' x 5' RCB, Sta. 19 + 45, complete and in place for the lump sum amount of:		6,400.00		10,000.00		10,000.00
2-6	186 LF	6' x 5' RCB; Sta. 19 + 45 to 21 + 30.70, complete and in place for the unit amount of:	308.00	57,288.00	400.00	74,400.00	290.00	53,940.00
2-7	L.S.	Precast 6' x 5' RCB bend, Sta. 20 + 76.60, complete and in place for the lump sum amount of:		3,150.00		4,000.00		6,000.00
2-8	L.S.	Junction box structure at Sta. 21 + 30.70 complete and in place for the lump sum amount of:		25,725.00		27,500.00		20,000.00
2-9	54 LF	Precast 6' x 3' RCB culvert across Fulton Place connecting to the junction box structure at Sta. 21 + 30.70, complete and in place for the unit amount of:	271.00	14,634.00	600.00	32,400.00	260.00	14,040.00

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE: MEADOWS DETENTION BASIN PHASES 2 & 3			TRIAD WESTERN CONSTR.					
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
2-4	L.S.	Precast 78" RCP bend, Sta. 14' + 93.32 complete and in place for the lump sum amount of:		5,000.00				
2-5	L.S.	Precast 78" RCP tee with Type A manhole Sta. 19 + 32 and Precast transition, 78" RCP to 6' x 5' RCB, Sta. 19 + 45, complete and in place for the lump sum amount of:		9,500.00				
2-6	186 LF	6' x 5' RCB; Sta. 19 + 45 to 21 + 30.70, complete and in place for the unit amount of:	550.00	102,300.00				
2-7	L.S.	Precast 6' x 5' RCB bend, Sta. 20 + 76.60, complete and in place for the lump sum amount of:		6,500.00				
2-8	L.S.	Junction box structure at Sta. 21 + 30.70 complete and in place for the lump sum amount of:		19,000.00				
2-9	54 LF	Precast 6' x 3' RCB culvert across Fulton Place connecting to the junction box structure at Sta. 21 + 30.70, complete and in place for the unit amount of:	500.00	27,000.00				

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE: BID # 89.1715.01			LAS VEGAS PAVING		MAX RIGGS CONST.		TAB CONTRACTORS	
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
2-10	L.S.	Transition from 6' x 3' RCB culvert to existing 8' x 4' concrete masonry box culvert complete and in place for the lump sum amount of:		6,000.00		9,000.00		15,000.00
2-11	2 Ea.	Type "A" drop inlets, complete and in place for the unit amount of:	2,250.00	4,500.00	2,400.00	4,800.00	2,500.00	5,000.00
2-12	65 LF	18" RCP, complete and in place for the unit amount of:	50.00	3,250.00	32.00	2,080.00	110.00	7,150.00
2-13	147 Ea.	24" RCP, complete and in place for the unit amount of:	112.00	16,464.00	59.00	8,673.00	120.00	17,640.00
2-14	17 LF	30" RCP, complete and in place for the unit amount of:	130.00	2,210.00	83.00	1,411.00	150.00	2,550.00
2-15	115 LF	36" RCP, complete and in place for the unit amount of:	140.00	16,100.00	113.00	12,995.00	150.00	17,250.00
2-16	102 LF	42" RCP, complete and in place for the unit amount of:	155.00	15,810.00	115.00	11,730.00	190.00	19,360.00
2-17	1363 LF	10' x 6' RCB, Sta. 21 + 30.70 to 34 + 94.18, complete and in place for the unit price of:	333.00	453,879.00	415.00	565,645.00	450.00	613,350.00

BID ABSTRACT & AWARD RECOMMENDATION

PAGE # 3A

BID TITLE: BID # 89.1715.01			FREHNER CONSTRUCTION		WELLS CARGO		WESTERN UTILITY CONTR.	
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
2-10	L.S.	Transition from 6' x 3' RCB culvert to existing 8' x 4' concrete masonry box culvert complete and in place for the lump sum amount of:		9,450.00		20,000.00		12,000.00
2-11	2 Ea.	Type "A" drop inlets, complete and in place for the unit amount of:	2,520.00	5,040.00	7,000.00	14,000.00	5,500.00	11,000.00
2-12	65 LF	18" RCP, complete and in place for the unit amount of:	34.00	2,210.00	80.00	5,200.00	150.00	9,750.00
2-13	147 Ea.	24" RCP, complete and in place for the unit amount of:	62.00	9,114.00	80.00	11,760.00	130.00	19,110.00
2-14	17 LF	30" RCP, complete and in place for the unit amount of:	90.00	1,530.00	90.00	1,530.00	270.00	4,590.00
2-15	115 LF	36" RCP, complete and in place for the unit amount of:	119.00	13,685.00	95.00	10,925.00	300.00	34,500.00
2-16	102 LF	42" RCP, complete and in place for the unit amount of:	121.00	12,342.00	100.00	10,200.00	230.00	23,460.00
2-17	1363 LF	10' x 6' RCB, Sta. 21 + 30.70 to 34 + 94.18, complete and in place for the unit price of:	430.00	586,090.00	475.00	647,425.00	418.00	569,734.00

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE:			TRIAD WESTERN CONSTR.					
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
2-10	L.S.	Transition from 6' x 3' RCB culvert to existing 8' x 4' concrete masonry box culvert complete and in place for the lump sum amount of:		10,000.00				
2-11	2 Ea.	Type "A" drop inlets, complete and in place for the unit amount of:	3,900.00	7,800.00				
2-12	65 LF	18" RCP, complete and in place for the unit amount of:	115.00	7,475.00				
2-13	147 Ea.	24" RCP, complete and in place for the unit amount of:	200.00	2,940.00				
2-14	17 LF	30" RCP, complete and in place for the unit amount of:	112.00	1,904.00				
2-15	115 LF	36" RCP, complete and in place for the unit amount of:	160.00	18,400.00				
2-16	102 LF	42" RCP, complete and in place for the unit amount of:	300.00	30,600.00				
2-17	1363 LF	10' x 6' RCB, Sta. 21 + 30.70 to 34 + 94.18, complete and in place for the unit price of:	530.00	722,390.00				

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE: BID # 89.1715.01			LAS VEGAS PAVING		MAX RIGGS CONST.		TAB CONTRACTORS	
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
2-18	303 LF	Concrete lined channel, Sta. 34 + 47.26 to 37 + 50, complete and in place for the unit price of:	314.00	95,142.00	200.00	60,600.00	370.00	112,110.00
2-19	L.S.	Two concrete lined channel transition sections and 12' x 6' RCB bridge, Sta. 37 + 50 to 39 + 40, complete and in place for the lump sum amount of:		127,300.00		59,700.00		150,000.00
2-20	690 LF	Concrete lined channel, Sta. 39 + 40 to 46 + 30.33, complete and in place for the unit amount of:	250.00	172,500.00	200.00	138,000.00	270.00	186,300.00
2-21	L.S.	Concrete lined channel transition Sta. 46 + 30.33 to 46 + 50.33, complete and in place for the lump sum amount of:		7,800.00		4,000.00		5,000.00
2-22	L.S.	Concrete lined channel transition section between Sta. 49 + 30 and 49 + 50, complete and in place for the lump sum amount of:		6,100.00		4,000.00		5,550.00
2-23	280 LF	10' x 6' RCB, Sta. 46 + 50.33 to 49 + 30, complete and in place for the unit amount of:	333.00	93,240.00	400.00	128,000.00	550.00	154,000.00

BID ABSTRACT & AWARD RECOMMENDATION

PAGE # 4A

BID TITLE:			FREHNER CONSTRUCTION		WELLS CARGO		WESTERN UTILITY CONST.	
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
2-18	303 LF	Concrete lined channel, Sta. 34 + 47.26 to 37 + 50, complete and in place for the unit price of:	350.00	106,050.00	350.00	106,050.00	380.00	115,140.00
2-19	L.S.	Two concrete lined channel transition sections and 12' x 6' RCB bridge, Sta. 37 + 50 to 39 + 40, complete and in place for the lump sum amount of:		112,200.00		250,000.00		60,000.00
2-20	690 LF	Concrete lined channel, Sta. 39 + 40 to 46 + 30.33, complete and in place for the unit amount of:	340.00	234,600.00	325.00	224,250.00	370.00	255,300.00
2-21	L.S.	Concrete lined channel transition Sta. 46 + 30.33 to 46 + 50.33, complete and in place for the lump sum amount of:		7,000.00		15,000.00		12,000.00
2-22	L.S.	Concrete lined channel transition section between Sta. 49 + 30 and 49 + 50, complete and in place for the lump sum amount of:		7,000.00		15,000.00		12,000.00
2-23	280 LF	10' x 6' RCB, Sta. 46 + 50.33 to 49 + 30, complete and in place for the unit amount of:	695.00	194,600.00	600.00	168,000.00	520.00	145,600.00

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE:		TRIAD WESTERN CONSTR.						
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
2-18	303 LF	Concrete lined channel, Sta. 34 + 47.26 to 37 + 50, complete and in place for the unit price of:	270.00	81,810.00				
2-19	L.S.	Two concrete lined channel transition sections and 12' x 6' RCB bridge, Sta. 37 + 50 to 39 + 40, complete and in place for the lump sum amount of:		203,000.00				
2-20	690 LF	Concrete lined channel, Sta. 39 + 40 to 46 + 30.33, complete and in place for the unit amount of:	270.00	186,300.00				
2-21	L.S.	Concrete lined channel transition Sta. 46 + 30.33 to 46 + 50.33, complete and in place for the lump sum amount of:		11,000.00				
2-22	L.S.	Concrete lined channel transition section between Sta. 49 + 30 and 49 + 50, complete and in place for the lump sum amount of:		12,000.00				
2-23	280 LF	10' x 6' RCB, Sta. 46 + 50.33 to 49 + 30, complete and in place for the unit amount of:	1,000.00	280,000.00				

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE:

BID # 89.1715.01

LAS VEGAS PAVING

MAX RIGGS CONST.

TAB CONTRACTORS

ITEM	QTY.	DESCRIPTION	LAS VEGAS PAVING		MAX RIGGS CONST.		TAB CONTRACTORS	
			U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
2-24	2 Ea.	Drop inlets along Valley View Blvd complete and in place for the unit amount of:	10,500.00	21,000.00	15,000.00	30,000.00	14,000.00	28,000.00
2-25	1 Ea.	Drop inlet along Alta Drive, complete and in place for the unit amount of:	7,850.00	7,850.00	11,500.00	11,500.00	9,000.00	9,000.00
2-26	L.S.	Remove existing Manhole approximately 44' west of Sta. 34 + 27, remove approximately 330' of 12-inch sanitary sewer, install new deeper Manhole and install approximately 330' of 18-inch sanitary sewer, complete and in place for the lump sum amount of:		43,500.00		48,000.00		65,000.00
2-27	LS	Install 60 LF of 39-inch RCP sleeve beneath RCB at Sta. 33 + 82 + for the lump sum amount of:		11,100.00		8,300.00		16,000.00
2-28	L.S.	Traffic signalization at the intersection of Valley View Blvd. and Alta Drive complete and in place for the lump sum amount of:		18,000.00		16,114.50		42,000.00
2-29	1 Ea.	Replace nail & shiner with Type I Monument & cover in northeast quadrant in Valley View Blvd. - Alta Drive intersection, complete	500.00	500.00	500.00	500.00	400.00	400.00

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE:			FREHNER CONSTRUCTION		WELLS CARGO		WESTERN UTILITY CONTR.	
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
-24	2 Ea.	Drop inlets along Valley View Blvd complete and in place for the unit amount of:	15,750.00	31,500.00	18,000.00	36,000.00	17,000.00	34,000.00
-25	1 Ea.	Drop inlet along Alta Drive, complete and in place for the unit amount of:		12,075.00		12,000.00		11,000.00
-26	L.S.	Remove existing Manhole approximately 44' west of Sta. 34 + 27, remove approximately 330' of 12-inch sanitary sewer, install new deeper Manhole and install approximately 330' of 18-inch sanitary sewer, complete and in place for the lump sum amount of:		50,400.00		50,000.00		85,000.00
-27	LS	Install 60 LF of 39-inch RCP sleeve beneath RCB at Sta. 33 + 82 + for the lump sum amount of:		8,715.00		15,000.00		22,000.00
-28	L.S.	Traffic signalization at the intersection of Valley View Blvd. and Alta Drive complete and in place for the lump sum amount of:		17,000.00		42,000.00		44,000.00
-29	1 Ea.	Replace nail & shiner with Type I Monument & cover in northeast quadrant in Valley View Blvd. - Alta Drive intersection, complete	400.00	400.00	1,000.00	1,000.00	500.00	500.00

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE:		TRIAD WESTERN CONSTR.						
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
2-24	2 Ea.	Drop inlets along Valley View Blvd complete and in place for the unit amount of:	16,700.00	33,400.00				
2-25	1 Ea.	Drop inlet along Alta Drive, complete and in place for the unit amount of:	10,000.00	10,000.00				
2-26	L.S.	Remove existing Manhole approximately 44' west of Sta. 34 + 27, remove approximately 330' of 12-inch sanitary sewer, install new deeper Manhole and install approximately 330' of 18-inch sanitary sewer, complete and in place for the lump sum amount of:		102,000.00				
2-27	LS	Install 60 LF of 39-inch RCP sleeve beneath RCB at Sta. 33 + 82 + for the lump sum amount of:		10,900.00				
2-28	L.S.	Traffic signalization at the intersection of Valley View Blvd. and Alta Drive complete and in place for the lump sum amount of:		20,000.00				
2-29	1 Ea.	Replace nail & shiner with Type I Monument & cover in northeast quadrant in Valley View Blvd. - Alta Drive intersection, complete	1,100.00	1,100.00				

BID ABSTRACT & AWARD RECOMMENDATION

PAGE # 6

BID TITLE:			LAS VEGAS PAVING		MAX RIGGS CONST.		TAB CONTRACTORS	
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
		and in place for the unit amount of:						
2-30	300 CY	Over-excavation & backfill with Type II aggregate, complete and in place for the unit amount of:	25.00	7,500.00	30.00	9,000.00	20.00	6,000.00
2-31	L.S.	Sawcutting, surveying, pavement removal and permanent removal and permanent replacement in the interscction of Valley View Blvd. and Alta Drive and for specifications up the streets complete and in place for the lump sum amount of:		39,700.00		45,000.00		50,000.00
		SUBTOTAL PHASE 2:		\$1,461,271.00		\$1,487,218.50		\$1,917,000.00
		BID SCHEDULE PHASE 3						
3-1	L.S.	Charleston Blvd. N and S drop inlets (3 structures total), and three 60" x 38" HE-RCP, complete and in place for the lump sum amount of:		275,300.00		300,000.00		311,000.00
3-2	86 LF	8' x 5' RCB, Station 1 + 05.12 to 1 + 91.51 complete and in place for the unit price of:	490.00	42,140.00	391.00	33,626.00	390.00	33,540.00

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE:		FREHNER CONSTRUCTION		WELLS CARGO		WESTERN UTILITY CONTR,		
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
2-30	300 CY	and in place for the unit amount of: Over-excavation & backfill with Type II aggregate, complete and in place for the unit amount of:	35.00	10,500.00	50.00	15,000.00	76.00	22,800.00
2-31	L.S.	Sawcutting, surveying, pavement removal and permanent removal and permanent replacement in the interscetion of Valley View Blvd. and Alta Drive and for specifications up the streets complete and in place for the lump sum amount of:		36,900.00		35,075.00		10,000.00
		SUBTOTAL PHASE 2:		1,792,816.00		2,054,095.00		1,822,764.00
		BID SCHEDULE PHASE 3						
3-1	L.S.	Charleston Blvd. N and S drop inlets (3 structures total), and three 60" x 38" HE-RCP, complete and in place for the lump sum amount of:		325,050.00		335,000.00		330,000.00
3-2	86 LF	8' x 5' RCB, Station 1 + 05.12 to 1 + 91.51 complete and in place for the unit price of:	410.00	35,260.00	500.00	43,000.00	450.00	38,700.00

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE:		TRIAD WESTERN CONSTR.						
BID # 89,1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
		and in place for the unit amount of:						
2-30	300 CY	Over-excavation & backfill with Type II aggregate, complete and in place for the unit amount of:	24.00	7,200.00				
2-31	L.S.	Sawcutting, surveying, pavement removal and permanent removal and permanent replacement in the intersection of Valley View Blvd. and Alta Drive and for specifications up the streets complete and in place for the lump sum amount of:		46,280.00				
		SUBTOTAL PHASE 2:		2,328,939.00				
		BID SCHEDULE PHASE 3						
3-1	L.S.	Charleston Blvd. N and S drop inlets (3 structures total), and three 60" x 38" HE-RCP, complete and in place for the lump sum amount of:		340,000.00				
3-2	86 LF	8' x 5' RCB, Station 1 + 05.12 to 1 + 91.51 complete and in place for the unit price of:	500.00	43,000.00				

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE:			LAS VEGAS BAYING		MAX RIGGS CONST.		TAB CONTRACTORS	
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
3-3	L.S.	Precast reinforced concrete transition from 8' x 5' RCB to 84" RCP, Sta. 1+91.51, complete and in place for the lump sum amount of:		4,800.00		6,625.00		4,230.00
3-4	1233 LF	84" RCP, Station 1 + 91.51 to 14 + 25, complete and in place for the unit price of:	357.00	440,181.0	319.00	393,327.00	410.00	505,530.00
3-5	L.S.	Precast 84" RCP tee with Type "A" manhole Station 6 + 69, complete and in place for the lump sum amount of:		4,800.00		3,350.00		2,600.00
3-6	L.S.	Precast 84" tee with Type "A" manhole Station 11 + 00, complete and in place for the lump sum amount of:		4,800.00		3,350.00		2,600.00
3-7	L.S.	Traffic signalization at intersection of Hinson Street and Charleston Blvd., complete and in place for the lump sum amount of:		25,900.00		23,550.00		50,000.00
3-8	L.S.	Furnish and install Fire Hydrant on the northwest corner of the Charleston Blvd. and Hinson Street intersection, complete and in place		10,000.00		3,000.00		7,500.00

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE: BID # 89.1715.01			FREHNER CONSTRUCTION		WELLS CARGO		WESTERN UTILITY CONTR.	
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
1-3	L.S.	Precast reinforced concrete transition from 8' x 5' RCB to 84" RCP, Sta. 1+91.51, complete and in place for the lump sum amount of:		7,000.00		10,000.00		10,000.00
1-4	1233 LF	84" RCP, Station 1 + 91.51 to 14 + 25, complete and in place for the unit price of:	334.00	411,822.00	310.00	382,230.00	395.00	487,035.00
-5	L.S.	Precast 84" RCP tee with Type "A" manhole Station 6 + 69, complete and in place for the lump sum amount of:		3,500.00		5,000.00		8,000.00
-6	L.S.	Precast 84" tee with Type "A" manhole Station 11 + 00, complete and in place for the lump sum amount of:		3,500.00		5,000.00		8,000.00
-7	L.S.	Traffic signalization at intersection of Hinson Street and Charleston Blvd., complete and in place for the lump sum amount of:		24,800.00		44,770.00		40,000.00
-8	L.S.	Furnish and install Fire Hydrant on the northwest corner of the Charleston Blvd. and Hinson Street intersection, complete and in place		3,150.00		10,000.00		6,000.00

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE:		BID # 89.1715.01		TRIAD WESTERN CONSTR.					
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL	
3-3	L.S.	Precast reinforced concrete transition from 8' x 5' RCB to 84" RCP, Sta. 1+91.51, complete and in place for the lump sum amount of:		4,200.00					
3-4	1233 LF	84" RCP, Station 1 + 91.51 to 14 + 25, complete and in place for the unit price of:	430.00	530,190.00					
3-5	L.S.	Precast 84" RCP tee with Type "A" manhole Station 6 + 69, complete and in place for the lump sum amount of:		5,800.00					
3-6	L.S.	Precast 84" tee with Type "A" manhole Station 11 + 00, complete and in place for the lump sum amount of:		5,800.00					
3-7	L.S.	Traffic signalization at intersection of Hinson Street and Charleston Blvd., complete and in place for the lump sum amount of:		28,000.00					
3-8	L.S.	Furnish and install Fire Hydrant on the northwest corner of the Charleston Blvd. and Hinson Street intersection, complete and in place		7,700.00					

BID ABSTRACT & AWARD RECOMMENDATION

PAGE # 8

BID TITLE:			LAS VEGAS PAVING		MAX RIGGS CONST.		TAB CONTRACTORS	
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
		for the lump sum amount of:						
3-9	L.S.	Relocate 2-inch natural gas line Hinson Street - from Charleston Blvd. to Sta. 6 + 75 +/-, complete and in place for the lump sum amount of:		19,200.00		13,100.00		26,000.00
		SUBTOTAL PHASE 3:		826,321.00		779,928.00		943,000.00
		TOTAL BID:		2,649,592.00		2,671,646.50		2,999,200.00
		<u>SUBCONTRACTORS</u>	NONE					
		REINFORCING STEEL				STEEL ENGINEERS		
		TRAFFIC CONTROL				HIGHWAY RENTALS		
		ELECTRICAL				STETSON ELECTRIC		
		ENGINEERING				C.D.S. ENGINEERING		
		UNDERGROUND & PIPE				C & S COMPANY		
		FENCING				THE TIBERTI CO.		
		LAWN RESEED						
		CONCRETE						
		A.C. PAVING						
							SEDILLO LANDSCAPE	
							LAS VEGAS CONCRETE	
							WELLS CARCO	

BID ABSTRACT & AWARD RECOMMENDATION

PAGE # 8A

BID TITLE: BID # 89.1715.01			FREHNER CONSTRUCTION		WELLS- CARGO		WESTERN UTILITY CONTR.	
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
		for the lump sum amount of:						
3-9	L.S.	Relocate 2-inch natural gas line Hinson Street - from Charleston Blvd. to Sta. 6 + 75 +/-, com- plete and in place for the lump sum amount of:		13,755.00		15,000.00		15,000.00
		SUBTOTAL PHASE 3:		827,837.00		850,000.00		942,735.00
		TOTAL BID:		3,035,603.00		3,064,000.00		3,260,499.00
		<u>SUBCONTRACTORS</u>						
		TRAFFIC						
		ELECTRICAL						
		UNDERGROUND						
		REINFORCING						
		CONCRETE						
		TRAFFIC SIGNALS						
			HIGHWAY RENTALS					
			STETSON ELECTRIC					
			C & S COMPANY					
			STEEL ENGINEERS					
					STEWART & SUNDELL			
					AMERICAN ELECTRIC			
							NONE	

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE:			TRIAD WESTERN CONSTR.					
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
		for the lump sum amount of:						
3-9	L.S.	Relocate 2-inch natural gas line Hinson Street - from Charleston Blvd. to Sta. 6 + 75 +/-, com- plete and in place for the lump sum amount of:		11,000				
		SUBTOTAL PHASE 3:		975,690.00				
		TOTAL BID:		3,622,629.00				
		<u>SUBCONTRACTORS</u>						
		PAVING:	LAS VEGAS	PAVING				
		TRAFFIC CONTROL:	SOUTHWEST	ROADWAY, INC.				
		ELECTRICAL:	STETSON					
		REINFORCING:	STEEL ENGINEERING					

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE: MEADOWS DETENTION BASIN PHASES 2 & 3			LAS VEGAS PAVING		MAX RIGGS CONST.		TAB CONTRACTORS	
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
		<u>SUBCONTRACTOR'S CON'T</u>						
		<u>MINORITY CONTRACTORS</u>			NONE			
		LANDSCAPING CONCRETE	HARDING	LANDSCAPE MAX RIGGS CONST.			SEDILLO LANDSCAPE A & E CONCRETE, KLINE'S CONCRETE, C & E CONCRETE, R & R CONCRETE	
		TRAFFIC CONTROL SIGNALS & TRAFFIC LOOPS AC PAVING	MUTOFF &	SONS			TWT ELECTRIC ACE PAVING	

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE: MEADOWS DETENTION BASIN PHASES 2 & 3			FREHNER CONSTRUCTION		WELLS. CARGO		WESTERN UTILITY CONTR.	
BID # 89.1715.01								
ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
		<u>SUBCONTRACTOR'S CON'T</u>						
		<u>MINORITY CONTRACTORS</u>						
		ELECTRICAL			NONE			
		TRAFFIC CONTROL						
		REINFORCING STEEL						
		TRAFFIC CONTROL						
		UNDERGROUND PIPE						
		TRUCKING						
			DESERT CONSTRUCTION					
			STETSON ELECTRIC					
			INTERSTATE ENTERPRISES					
			ALCO STEEL					
			AMALGAMATED SAFETY					
			MUTOFF & SONS					
							WESLEY TRUCKING	

BID ABSTRACT & AWARD RECOMMENDATION

BID TITLE: MEADOWS DETENTION BASIN PHASES 2 & 3

TRIAD WESTERN CONSTR.

BID # 89.1715.01

ITEM	QTY.	DESCRIPTION	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL
		<u>SUBCONTRACTOR'S CON'T</u>						
		<u>MINORITY CONTRACTORS</u>						
		CONCRETE:	NOT AVAILABLE					

REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY
AGENDA ITEM

Subject: STATUS REPORT REGARDING IMPLEMENTATION OF THE MASTER PLAN
Petitioner: VIRGINIA BAX-VALENTINE, P.E., GENERAL MANAGER/CHIEF ENGINEER
Recommendation: NONE

Fiscal Impact:

NONE

Background:

Commissioner Woodbury has requested that staff and the District's advisory committees develop a plan to shorten the implementation time required so that more projects are constructed over a shorter time period. At its December 29, 1988 meeting, the Technical Advisory Committee members agreed that the Floodplain Managers Committee should meet to formulate recommendations to speed up the implementation process. A Subcommittee of the Citizens Advisory Committee has also been meeting to discuss this issue. The Committees' progress will be reported at the meeting.

Respectfully submitted,


VIRGINIA BAX-VALENTINE, P.E.
General Manager/Chief Engineer

T.C. AGENDA ITEM # 7 Date: 2-23-89	FCD AGENDA ITEM # 10 Date: 3-09-89
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DISC4:BDITM3-7

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

301 E. Clark Avenue, Suite 300

Las Vegas, Nevada 89101

(702) 455-3139

VIRGINIA BAX-VALENTINE, P.E.
General Manager

TO: CITIZENS ADVISORY COMMITTEE

FROM: SUBCOMMITTEE ON IMPLEMENTING MASTER PLAN PROJECTS

SUBJECT: SUBCOMMITTEE RECOMMENDATIONS

DATE FEBRUARY 22, 1989
REVISED, FEBRUARY 28, 1989

Background: At the direction of the Board, the Citizens Advisory Committee formed a Subcommittee of Ann Zorn, Les MacFarlane, M.J. Harvey, and Don Bigger to study the delay in implementing Master Plan projects. The Subcommittee met on February 10, 1989, to discuss possible causes of delays in implementing projects and to formulate possible solutions for recommendations to the Board.

Probable Causes of Delays: The Subcommittee discussed at length the findings of the Floodplain Management Committee and also discussed the perceived causes of project delays. The Subcommittee identified the following causes of delays:

1. Not enough money available
2. Project required acquisition of BLM land and could not be constructed until the EIS is completed
3. Changes in hydrologic criteria
4. Time required to obtain approval of interlocal agreements by all required entities
5. Coordination with all impacted entities is time consuming
6. The program is new, the entities are still getting up to speed and have not developed a backlog of projects

Possible solutions and Subcommittee Recommendations: The Subcommittee discussed in detail revisions to the present prioritization system which might shorten the time required to implement projects and also discussed various incentives and motivation techniques. The Subcommittee offers the following recommendations to the Board:

1. Prioritize each construction project on the ten-year plan and assign each a number according to priority.
2. Identify the design projects available during each fiscal year for funding at the beginning of each fiscal year.
3. Fund construction projects as funds become available on a first come first funded basis. In the event that not enough funds are available to cover all requests the lowest numbered project would be funded. No

Board Members

Bruce L. Woodbury, *Chairman*, Clark County • Chris Christensen, *Vice-Chairman*, City of Boulder City
Carlton Lawrence, *Secretary*, City of Henderson • Paul J. Christensen, Clark County • Theron Goynes, City of North Las Vegas
Craig Pulsipher, City of Mesquite • Ron Lurie, City of Las Vegas • Bob Nolen, City of Las Vegas

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

Recommendation

March 3, 1989

Page 2

entity would be allowed to advance further than 2 years into the 10-year construction program before the District began reserving funds for entities which were behind schedule.

4. While each of the entities perceive that lack of sufficient funding is available, the District has never denied funding to any project. The Subcommittee recommends that any entities which perceive a lack of available funds request a supplemental interlocal agreement as soon as funding limitations are identified.

An example of different funding scenarios is attached to illustrate how the proposed recommendations would work if adopted.

EXAMPLE PRIORITY LIST

<u>YEAR</u>	<u>NAME OF PROJECT</u>	<u>ENTITY</u>	<u>PHASE</u>
1	1. Gowan Road	CLV	Design
	2. "A" Channel	NLV	Design
	3. Georgia Channel	Boulder	Design
	4. Upper Flamingo Detention Basin	CC	Design
	5. Pittman Wash	Henderson	Design
	6. Las Vegas Wash	NLV	Design
	7. Upper Flamingo Detention Basin	CC	Construction
	8. Pittman Wash Phase I	Henderson	Construction
	9. Town Wash Detention Basin	Mesquite	Design/Const.
YEAR			
2	10. Rawhide Channel	CC	Design
	11. Western Tributary	NLV	Design
	12. Gowan Road	CLV	Design
	13. "A" Channel	NLV	Construction
	14. Georgia Avenue	Boulder	Construction
	15. Meadows Detention Basin	CLV	Construction
	16. Pittman Wash, Phase II	Henderson	Construction
YEAR			
3	17. Sahara Oakey Detention Basin	CLV	Design
	18. I-15 Collection System	CLV	Design
	19. Van Buskirk Channel	CC	Design
	20. Duck Creek Channel	CC	Design
	21. Sahara Oakey Detention Basin	CLV	Construction
	22. I-15 Collection System	CLV	Construction
	23. Town Wash Det. Basin, Phase II	Mesquite	Construction
	24. Duck Creek Channel	CC	Construction

DISC4:PRIORITY

REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY
AGENDA ITEM

Subject: STUDENT INTERNSHIP PROGRAM
Petitioner: VIRGINIA BAX-VALENTINE, P.E., GENERAL MANAGER/CHIEF ENGINEER
Recommendation: THAT THE BOARD APPROVE THE ESTABLISHMENT OF A STUDENT INTERNSHIP PROGRAM

Fiscal Impact:

Provisions were made for this program in the FY 88/89 budget, and was proposed in the FY 89/90 budget.

Background:

The establishment of a student internship program will provide quality clerical and/or technical assistance to the staff of the District and provide a Nevada student with job training in a professional environment. A UNLV engineering student is currently working for the District on a part time temporary basis performing a variety of duties in the office. Included in your backup is the Student Internship Program guidelines. Provisions were made for this program in the FY 88/89 budget, and were proposed in the FY 89/90 budget.

Staff recommends the approval of the Student Internship Program.

Respectfully submitted,

T.C. AGENDA ITEM # 8 Date: 2-23-89	FCD AGENDA ITEM # 11 Date: 3-09-89
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fr 
VIRGINIA BAX-VALENTINE, P.E.
General Manager/Chief Engineer

DISC4:BDITM3-8

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
STUDENT INTERNSHIP PROGRAM

Purpose

To specify the guidelines for a supervised student internship program. Said program will 1) provide quality clerical or technical assistance to the staff of the Clark County Regional Flood Control District and 2) provide a Nevada student with pertinent job training in a civil engineering environment.

Scope of Work

The student intern must be able to perform a variety of duties within the office and on field assignments. Examples of such duties are in two categories.

Student Intern (Engineering):

Drafting	Field Investigation
Research	Hydrology and Hydraulic
Filing	Computations
Data Impact	Other Duties as Assigned
Field Reviews	

Student Intern (Clerical):

Typing	Duplicating
Filing	Runner
Sorting	Other Duties as Assigned
Compiling	

Qualifications

Student Intern (Engineering):

The student must be enrolled in a college level course of study comparable to the type of work assignments and environment that he/she will encounter. It is preferable that the student have at least junior status. Each student should be able to demonstrate a basic understanding of the principles/activities involved in the engineering work of the District.

Student Intern (Clerical):

The student must be knowledgeable of and have some experience in the type of work assignments that he/she will encounter. The student should be able to perform basic clerical work involving office machines/activities.

Job Specifications

Scheduling:

It is the students' responsibility to inform his/her supervisor of their availability for work. The District will work to accommodate each student's work and school schedules in order to fulfil both the District and students' needs. Each student should provide the supervisor with a copy of their proposed classes prior to completing pre-registration.

Work Days:

The District operates Monday through Friday from 8:00 a.m. to 5:00 p.m. The work program will be continuous throughout the school year including Christmas, Spring and Summer vacation periods.

Fall and Spring Terms:	20 hours/week: 13 weeks/semester estimated (2 semesters)
Summer (15 weeks):	20 hours/week 8:00 a.m. to 12:00 p.m./1:00 p.m. to 4:00 p.m.
Christmas Break (6 weeks):	20 hours/week 8:00 a.m. to 12:00 p.m./1:00 p.m. to 4:00 p.m.
Spring Break (1 week):	20 hours/week 8:00 a.m. to 12:00 p.m./1:00 p.m. to 4:00 p.m.

Note: There are 80 additional hours within course of calendar year which will allow extended work periods during any week of choice.

A student can work up to a maximum of 1,040 hours/year.

Breaks:

Students will be entitled to a 15 minute break for each four hour day. Longer part-time days (greater than 4 hours) will require a lunch break of 1 hour in addition to a break. Any deviation from these guidelines will need approval of the immediate supervisor and General Manager.

Benefits:

Students will be classified as part-time hourly for the duration of employment as a student intern. No sick/vacation or insurance benefits are applicable. Employer paid retirement contributions would only apply in instances where part-time hourly students work 40 hours or more in a given week. Holidays are not worked nor paid.

Attire:

Clark County Regional Flood Control District is a professional work environment. Students will be required to dress appropriately. When field work is scheduled, casual dress is allowed.

Rate Schedule:

		<u>Rate</u>
Student Intern (Engineering)	I	6.64
	II	7.10
	III	7.60
	IV	8.13
	V	8.70
	VI	9.31

		<u>Rate</u>
Student Intern (Clerical)	I	6.05
	II	6.29
	III	6.54
	IV	6.81
	V	7.07
	VI	7.37

FCWD2:STUDENT:dks

REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY

AGENDA ITEM

Subject: CONTRACT MODIFICATION FOR MASTER PLAN EIS
Petitioner: VIRGINIA BAX-VALENTINE, P.E., GENERAL MANAGER/CHIEF ENGINEER
Recommendation: THAT THE BOARD APPROVE THE MODIFICATION TO THE SCOPE OF WORK AND TOTAL COST OF THE MASTER PLAN EIS CONTRACT

Fiscal Impact:

\$10,018

Background:

Dames & Moore (D&M), the consultant preparing the Master Plan EIS, has requested that the scope of work for this contract be modified to address areas of concern which may require additional effort. The additional work includes 1) U.S. Fish and Wildlife Service (USFWS) coordination and 2) Section 106 (SHPO) consultation.

USFWS has requested an informal meeting to brief them on the Master Plan, elicit their concerns, and discuss whether any Fish and Wildlife Coordination Act studies or Section 7 consultation procedures are required for the EIS. D&M's activities will include making a presentation of their EIS related activities, assisting the District in addressing USFWS concerns and having a biologist visit representative facility sites with USFWS staff to discuss potential problems and possible mitigation strategies. Dames & Moore estimated the cost for this service to be \$4018.

Also, the EIS should describe how the District will comply with Section 106 of the National Historic Presentation Act. Two options may be available to the District. The first is a complete cultural resource inventory covering the pro-

Continued.....

T.C. AGENDA ITEM # 9 Date: 2-23-89	FCD AGENDA ITEM # 12 Date: 3-09-89
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Item
Technical Advisory Committee
February 14, 1989
Page 2

ject area, followed by a consultation with SHPO regarding the significance and effect of the inventory. The second option is to develop a Programatic Agreement with SHPO detailing the types of actions required for District projects to be in compliance. The conditions of the agreement would then be applied on a project-by-project basis prior to construction. The preferred alternative appears to be the latter of the two. D&M estimated the cost for this initial consultation to be \$6000.

Consultation for compliance with Section 7 and Section 106 is outside of the requirement of the National Environmental Policy Act (NEPA). However, such compliance is mandatory before construction of regional facilities and can be adequately addressed in the EIS to avoid future delays in projects.

Staff Recommendation:

Staff recommends approval of the contract modification for the Master Plan EIS.

Respectfully submitted,

for 
VIRGINIA BAX-VALENTINE, P.E.
General Manager/Chief Engineer

T.C. AGENDA	FCD AGENDA
ITEM # 9	ITEM # 12
Date:	Date:
2-23-89	3-09-89

DISC4:BITM2-9A

SUPPLEMENT TO AGREEMENT FOR PROFESSIONAL SERVICES
CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT AND
DAMES & MOORE, A PROFESSIONAL LIMITED PARTNERSHIP

This Agreement supplement, made and entered into this ____ of _____, 1989, supplements the August 18, 1988 agreement between the Clark County Regional Flood Control District (District) and Dames & Moore, a Professional Limited Partnership (Consultant), and authorizes services and associated compensation in addition to that authorized under the original agreement as follows:

Specifically, these services may include; consultant's participation in a meeting with the U.S. Fish and Wildlife Service to assist District staff with the presentation of the proposed project and discuss potential Endangered Species Act Section 7 consultation procedures for technical investigation requirements beyond those included in the present EIS scope; and, preparation of a project presentation and participation in a meeting with the State Historic Preservation Office staff to discuss the District's options and preferred approach to comply with Section 106 of the National Historic Preservation Act.

Consultant has estimated a total cost of no more than \$17,018 to accomplish these efforts, and total authorized compensation under the August 18, 1988 agreement is hereby increased to \$17,018 in accordance with this amount. The schedule of performance of these additional services shall be in accordance with written instructions from the District's General Manager, and shall not commence until such instructions are received by Consultant.

exception of the scope of services, compensation, provisions referred to above, all other terms and the August 18, 1988 agreement remain unchanged by

WHEREOF, the parties have caused this SUPPLEMENT to be executed the day and year first above written.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

By: _____ Date
BRUCE L. WOODBURY, Chairman

DAMES & MOORE
A Professional Limited Partnership

A. Folks


By: *[Signature]* _____ 3-1-89
DEAN HARGIS, Partner (Ltd.) Date

LEGALITY ONLY:

LE
Attorney

Date

157.1/19-2

 **DAMES & MOORE**

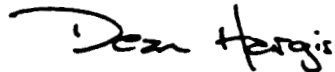
Clark County Regional Flood Control District
February 8, 1989
Page 3

If the Flood Control District decides to authorize our completion of this effort, we believe a contract amendment for the total \$8000 expense is appropriate. If the report is to be completed using other data sources, no adjustment to our current budget is required, but the report scope will be modified to reflect the available data.

* * *

We hope this information provides you with the detail required to complete your review of our contract amendment request. If you have any additional questions please contact us.

Sincerely,
Dames & Moore



Dean Hargis
Partner (Ltd.)

CRIS

111



January 26, 1988

Mr. Tim Sutko
Clark County Regional Flood Control District
P.O. Box 396
Las Vegas, NV 89125

Re: Project Scope Modifications and Cost
Adjustment Request
Environmental Impact Statement
Flood Control Master Plan for the
Clark County Regional Flood Control District

Dear Tim:

As per our previous discussions, Dames & Moore has identified three areas of concern that may require additional effort and/or input for completion of the Clark County Regional Flood Control Master Plan Environmental Impact Statement (EIS) that are not part of our current scope of work. These items include: 1) Fish & Wildlife Service coordination, 2) Section 106 consultation, and 3) additional efforts needed by our land use staff to access the CCRIS database.

We also evaluated the possible use of new base maps from Landis for the report presentation, but have concluded that the costs required to use the new photographs is not justified.

FISH & WILDLIFE COORDINATION

Ms. Mary Joe Elpus of the USFWS has requested an informal briefing to describe project to her staff in detail, answer questions, and elicit her concerns. Apparently the prior USFWS response to the scoping letter was a pro forma response and they would now like additional information. We will need to respond to her concerns if they are not already in the EIS. We do not presently expect to modify the EIS scope as a result of this interaction.

We recommend that the meeting be attended by BLM, Clark County Flood Control District and Dames & Moore. The Corps should also be asked to participate in the meeting. Prior to this meeting copies of the draft biology maps and DEIS text could be made available for her review.

One of the purposes of the meeting should be to discuss if any Fish & Wildlife Coordination Act studies by USFWS are required for EIS and any Section 7 consultation procedures. It is unlikely that Fish & Wildlife Coordination Act studies will be required. It also appears that Section 7 consultation will not

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be required. However, BLM needs to follow up meeting with formal letter to USFWS regarding these items.

Costs

We estimate that costs for this consultation will be \$4,000. This cost includes assembling DEIS materials on biology, preparing a brief presentation for the meeting, and an additional day for the Dames & Moore biologist to visit representative facilities with the USFWS.

SECTION 106 CONSULTATION

The DEIS should state that CCRFCD intends to comply with Section 106 and describe generally how compliance will be achieved. Based on discussions between Dames & Moore archaeologists and the Nevada state historic preservation officer (SHPO) there are two different compliance trajectories that may be appropriate.

dep

The first plan would be to initiate a cultural resource inventory for the entire project. This would involve: 1) meeting with the lead Federal agency and the state historic preservation officer (SHPO) to determine inventory requirements, 2) conducting the inventory, and 3) consulting regarding significance and affect following completion of the inventory. Technically, all three steps should be complete prior to the granting of the Federal permits.

The second alternative plan is to enter into a Programmatic Agreement (PA) under 36 C FR 800. The PA would spell out the compliance procedures that CCRFCD will undertake and would provide a general timetable under which these actions will occur. Through the PA, CCRFCD could defer Section 106 compliance on project components which are not planned to be constructed in the near future. Prior to construction of each project component, procedures set forth in the PA would be followed to identify, evaluate and mitigate any potential adverse impacts to cultural resources.

The decision on the appropriate 106 trajectory will ultimately be made by BLM in consultation with SHPO. CCRFCD, however, is in a position to influence this decision via consultation with the various agencies which are party to the 106 process. Dames & Moore has many years of experience in assisting non-Federal agencies through the Section 106 process and could provide guidance to CCRFCD.

At a minimum Dames & Moore recommends the following initial services:

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- 1) Compile background information and prepare an informational presentation addressing available data and likely resources in the vicinity of the 10-year plan facilities.

2) Meet with CCRFCD to provide further explanation of the Section 106 options and discuss Ccrfcds overall schedule and budgetary constraints. On the basis of this meeting Dames & Moore will Recommend an appropriate 106 compliance strategy to the District.

3) Coordinate a meeting with BLM, Corps, and SHPO to discuss Section 106 compliance. Dames & Moore would then assist CCRFCD in presenting its case for its preferred compliance plan.

4) Follow-up coordination with SHPO and the CCRFCD to resolve details and finalize the approach to satisfying Section 106 requirements.

Depending on the outcome of this initial set of consulting services, Dames & Moore would provide additional assistance in drafting a PA; reviewing an agency-drafted PA on the behalf of CCRFCD; coordinating agency review and comment; and assisting in PA revisions.

Costs

We estimate that the cost of the initial consultation and meeting will be \$6,000. An estimate for the remaining items is contingent upon the outcome of the initial consultation and depends on the amount of field study required by the SHPO.

LAND USE ANALYSIS

Dames & Moore requests additional funds for the completion of the Clark County Flood Control Master Plan EIS, due to changes in the land use scope of work. Because land use data could not be provided to Dames & Moore in hard copy by the Clark County Comprehensive Planning Department, attempts were made to access these data through the CCRIS data base. However, a departmental change in computer systems from Prime to Vax, resulted in a temporary suspension of operations and the department has been unable to provide the necessary data maps for the study. Dames & Moore then agreed to acquire the data in a DLG tape format to produce the maps on Dames & Moore's GIS system on the assumption that these data were readily accessible.

Numerous difficulties have arisen attempting to retrieve these data which were previously unanticipated, including that fact that the data was in a different format than expected. Discussion with the Comprehensive Planning Department have not resulted in the identification of the problem. As a result, additional funds are needed to manipulate and format the data to produce maps from our system.

The study team can still complete the project, although there will be many assumptions and data interpretations made due to the lack of information. This would require an extension of the

schedule for field checking and data collection for the specific land use information. The procedure taken to perform the study without this computer data information would be manually labor intensive and would create potential inaccurate data.

The access to this data would allow for a more efficient assessment process and provide more detailed data for the ten-year plan. General land use data is available at this time for the programmatic analysis. However, more specific information is needed to discuss the impacts relative to the specific facilities included in the ten-year plan. The CCRIS data base will provide this level of detailed information and we were specifically advised to use these data in scoping sessions with the Clark County Comprehensive Planning Department.

Costs

Additional work required to complete this effort and access the CCRIS land use data will result in a cost increase of \$8,000. This additional expense will allow us to provide a more accurate and credible impact assessment and is considered appropriate.

* * *

In summary, additional project efforts not previously anticipated when our scope of services was prepared will result in a project cost increase of \$18,000. Please let us know if you would like any additional information concerning this request. It is a pleasure to be working with you on this project and we look forward to hearing from you soon.

Sincerely,
DAMES & MOORE



Dean Hargis
Partner (Ltd.)

cc: Ms. Virginia Bax-Valentine
Mr. Frank Maxwell

REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY

AGENDA ITEM

Subject: CITIZENS ADVISORY COMMITTEE REPORT AND ACTION TO APPROVE FLOOD AWARENESS WEEK ACTIVITIES
Petitioner: VIRGINIA BAX-VALENTINE, GENERAL MANAGER/CHIEF ENGINEER
Recommendation: THAT THE BOARD APPROVE THE ACTIVITIES PLANNED FOR FLOOD AWARENESS WEEK AND AUTHORIZE THE GENERAL MANAGER TO EXPEND FUNDS FOR THESE ACTIVITIES

Fiscal Impact:

\$4259

Background:

As part of the District's Public Education Program, the Citizens Advisory Committee has organized a Flood Awareness Week again this year. Scheduled for June 9-16, the date has been set to coincide with the State's Flood Awareness Week.

Included in this year's activities is a poster contest for participating sixth grade centers. The art classes at these schools were encouraged to create posters which would best depict the need for flood awareness. The winning artist at each school will be recognized with a certificate of accomplishment. Four hundred (200 mounted and 200 unmounted) copies of the winning poster will be reproduced at a cost of \$612 and distributed to libraries, schools and businesses throughout the County for public display. Additionally, this poster will be featured on the front panel of this year's flood awareness brochure.

The District is having 80,000 copies of the flood awareness brochure printed at a cost of \$3647. Presenting information on Do's and Don'ts of reacting to a flash flood, as well as public agencies to contact for information and assistance, these pamphlets will be distributed via a bulk mailing. Subject to Board approval, the brochures will also list the current members of the Flood Control District Board.

Continued.....

T.C. AGENDA ITEM # Date:	FCD AGENDA ITEM # 13 Date: 3-09-89
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Agenda Item
Board of Directors
March 2, 1989
Page 2

The District staff and the Citizens Advisory Committee are in the process of developing a speaker's bureau and slide show with the intention of keeping the District activities and the need for flood control in the public eye. Speakers will be available to make presentations to any civic-minded group which expresses an interest.

Once again, officials from each of the local entities and the District Board will be requested to issue proclamations establishing June 9-16 as Flood Awareness Week.

Respectfully submitted,


VIRGINIA BAX-VALENTINE, P.E.
General Manager/Chief Engineer

T.C. AGENDA ITEM # Date:	FCD AGENDA ITEM # 13 Date: 3-09-89
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REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY
AGENDA ITEM

Subject: PROJECT STATUS REPORTS
Petitioner: VIRGINIA BAX-VALENTINE, P.E. GENERAL MANAGER/CHIEF ENGINEER
Recommendation: THAT BOARD ACCEPT THE MONTHLY STATUS REPORTS

Fiscal Impact:

NONE

Background:

The following monthly status reports are included in the backup for your review:

- a) Projects managed by the District - February 14, 1989
- b) City of Las Vegas - February 10, 1989
- c) City of North Las Vegas - February 14, 1989
- d) Corps of Engineers - February 1, 1989

Respectfully submitted,


VIRGINIA BAX-VALENTINE, P.E.
General Manager/Chief Engineer

T.C. AGENDA ITEM # 10 Date: 2-23-89	FCD AGENDA ITEM # 14 Date: 3-09-89
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PROJECT NO. _____
ASSIGNED BY THE DISTRICT _____

MONTHLY PROJECT STATUS REPORT

PROJECT DESCRIPTION: Hiko Springs and Unnamed Wash, Laughlin, Facilities
Development Plan.

LEAD ENTITY: CCRFC DATE OF STATUS REPORT 2-14-89

PROJECT CONSISTS OF: (Check appropriate boxes)
 PRE-DESIGN DESIGN
 RIGHT-OF-WAY CONSTRUCTION
 OTHER _____

INTERLOCAL AGREEMENT: DATE _____ AMOUNT _____
SUPPLEMENTAL AGREEMENT(S): DATE _____ AMOUNT _____
DATE _____ AMOUNT _____
DATE _____ AMOUNT _____

LIST OTHER FUNDING SOURCES AND AMOUNTS: A. B. 494 \$300,000

CONSULTANT: ENTITY OTHER Boyle Engineering Corporation
CONSULTANT AGREEMENT: DATE April 14, 1988 AMOUNT 205,014
LIST SUBCONSULTANT(S): 1) _____
2) _____
3) _____

SUBCONSULTANT AGREEMENT(S) 1) DATE _____ AMOUNT _____
2) DATE _____ AMOUNT _____
3) DATE _____ AMOUNT _____

CONTRACTOR: _____

CONSTRUCTION CONTRACT: DATE _____ AMOUNT _____

- PROJECT STATUS:
- 1) Progress to date: Draft report submitted in November, 1988 and results presented to Laughlin Townboard January, 1989.
 - 2) Problems and/or changes required: In late January a Laughlin developer on whose land the debris basin is partially located requested that this location be reevaluated. The final report is on hold pending the results of this evaluation.
 - 3) Estimated amount expended to date: \$181,096
 - 4) Estimated next month's progress and expenditures: \$12,000
 - 5) Anticipated project completion date: April, 1989
 - 6) Other: _____

PROJECT NO. _____
ASSIGNED BY THE DISTRICT _____

MONTHLY PROJECT STATUS REPORT

PROJECT DESCRIPTION: Flood Control Master Plan EIS

LEAD ENTITY: CCRFC DATE OF STATUS REPORT 2-14-89

PROJECT CONSISTS OF: (Check appropriate boxes)

- PRE-DESIGN DESIGN
 RIGHT-OF-WAY CONSTRUCTION
 OTHER Environmental Impact Statement

INTERLOCAL AGREEMENT: DATE _____ AMOUNT _____
SUPPLEMENTAL AGREEMENT(S): DATE _____ AMOUNT _____
DATE _____ AMOUNT _____
DATE _____ AMOUNT _____

LIST OTHER FUNDING SOURCES AND AMOUNTS: _____

CONSULTANT: ENTITY OTHER Dames & Moore
CONSULTANT AGREEMENT: DATE 8-18-88 AMOUNT \$317,000
LIST SUBCONSULTANT(S): 1) _____
2) _____
3) _____

SUBCONSULTANT AGREEMENT(S) 1) DATE _____ AMOUNT _____
2) DATE _____ AMOUNT _____
3) DATE _____ AMOUNT _____

CONTRACTOR: _____

CONSTRUCTION CONTRACT: DATE _____ AMOUNT _____

PROJECT STATUS:

- 1) Progress to date: The consultant is preparing the administrative draft of the EIS. Project is 2-3 weeks behind schedule due to difficulties accessing land-use data from computer tape provided by Comprehensive Planning. ADEIS expected in mid April, 1989.
- 2) Problems and/or changes required: Consultant has requested \$10,000 for initial Section 7 and Section 106 consultation.
- 3) Estimated amount expended to date: \$213,306
- 4) Estimated next month's progress and expenditures: \$30,000
- 5) Anticipated project completion date: October, 1989
- 6) Other: _____

STATUS-REP

PROJECT NO. _____
ASSIGNED BY THE DISTRICT _____

MONTHLY PROJECT STATUS REPORT

PROJECT DESCRIPTION: Data Collection/Flood Warning System

LEAD ENTITY: CCRECD DATE OF STATUS REPORT 2-14-89

PROJECT CONSISTS OF: (Check appropriate boxes)

- PRE-DESIGN DESIGN
 RIGHT-OF-WAY CONSTRUCTION
 OTHER On-going project

INTERLOCAL AGREEMENT:	DATE _____	AMOUNT _____
SUPPLEMENTAL AGREEMENT(S):	DATE _____	AMOUNT _____
	DATE _____	AMOUNT _____
	DATE _____	AMOUNT _____

LIST OTHER FUNDING SOURCES AND AMOUNTS: _____

CONSULTANT: ENTITY OTHER _____
CONSULTANT AGREEMENT: DATE _____ AMOUNT _____
LIST SUBCONSULTANT(S): 1) _____
2) _____
3) _____

SUBCONSULTANT AGREEMENT(S)	1) DATE _____	AMOUNT _____
	2) DATE _____	AMOUNT _____
	3) DATE _____	AMOUNT _____

CONTRACTOR: _____

CONSTRUCTION CONTRACT: DATE _____ AMOUNT _____

PROJECT STATUS:

- 1) Progress to date: A new precipitation/streamflow station has been installed on the Muddy River near Moapa. This gives us a total of 11 stations
- 2) Problems and/or changes required: We are still waiting for clearance from BLM to install a repeater on Mt. Potosi.
- 3) Estimated amount expended to date: _____
- 4) Estimated next month's progress and expenditures: _____
- 5) Anticipated project completion date: _____
- 6) Other: _____

STATUS-REP

FEB 13 1989

RENEWAL
FLOOD CONTROL DIST.

PROJECT NO. _____
ASSIGNED BY THE DISTRICT _____

MONTHLY PROJECT STATUS REPORT

PROJECT DESCRIPTION: CCRFCO CENTRAL LAS VEGAS VALLEY
PHASE I, PROJECTS 1,2&3 ANGEL PK-GOWAN SYSTEM

LEAD ENTITY: CITY OF LAS VEGAS DATE OF STATUS REPORT FEB. 10, 1989

PROJECT CONSISTS OF: (Check appropriate boxes)

- PRE-DESIGN
- RIGHT-OF-WAY
- OTHER
- DESIGN
- CONSTRUCTION

INTERLOCAL AGREEMENT:	DATE	_____	AMOUNT	<u>312,900</u>
SUPPLEMENTAL AGREEMENT(S):	DATE	_____	AMOUNT	_____
	DATE	_____	AMOUNT	_____
	DATE	_____	AMOUNT	_____

LIST OTHER FUNDING SOURCES AND AMOUNTS: NONE

CONSULTANT: ENTITY OTHER G.C. WALLACE, INC.

CONSULTANT AGREEMENT: DATE _____ AMOUNT _____

LIST SUBCONSULTANT(S):

- 1) _____
- 2) _____
- 3) _____

SUBCONSULTANT AGREEMENT(S)	1) DATE	<u>1-20-88</u>	AMOUNT	<u>274,950</u>
	2) DATE	_____	AMOUNT	_____
	3) DATE	_____	AMOUNT	_____

CONTRACTOR: _____

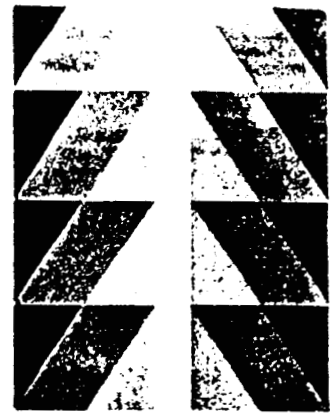
CONSTRUCTION CONTRACT: DATE _____ AMOUNT _____

PROJECT STATUS:

- 1) Progress to date: FINAL DRAFT OF PRE-DESIGN
REPORT DUE ABOUT MAR. 1, 1989
- 2) Problems and/or changes required: _____
- 3) Estimated amount expended to date: 95%
- 4) Estimated next month's progress and expenditures: 5%
- 5) Anticipated project completion date: 3/30/89
- 6) Other: _____

STATUS-REP

98



February 14, 1989

Virginia Bax-Valentine, P.E.
General Manager
Clark County Regional Flood Control District
P.O. Box 396
Las Vegas, NV 89125

City of
North Las Vegas

2200 Civic Center Drive
P.O. Box 4086
North Las Vegas, Nevada 89030
(702) 649-5811

Dear Virginia:

The following is a current status report of CCRFCD projects in progress in the City of North Las Vegas:

Mayor
James K. Seastrand
Councilmen
Theron H. Goynes
Mary J. Kincaid
William E. Robinson
W. Brent Hardy
City Manager
Michael Dyal

A. LAS VEGAS WASH, I-15 TO PECOS ROAD

1. Description: Hydrologic analysis, sediment yield analysis, development alternatives for the best facilities to control drainage contributing to the Las Vegas Wash.
2. Status: A modified contract with Black and Veach was entered into in October, 1988. The entire study should be complete by March 1989.
3. Cost: Not to exceed \$324,000
4. Funding:
\$304,380 - CCRFCD interlocal dated 4 August 1987.
\$ 20,000 - NLV Revenue Sharing Funds.

B. LAS VEGAS WASH, CRAIG ROAD TO CIVIC CENTER DRIVE (King Charles Diversion)

1. Description: Flood channel from Craig Road to Las Vegas Wash parallel to the UPRR.

2. Status: Phase 1 from the UPRR bridge to the Las Vegas Wash is complete.
The UPRR bridge is substantially complete.
CALNEV pipe line lowering is complete.

Phase 2 - James M. Montgomery Engineers is in the process of completing the improvement plans and bid documents. The plans are being routed to local entities and the UPRR for final review.

3. Cost: The cost of Phase 2 is estimated at \$866,450.

4. Funding:

\$1,575,000 - Clark County Bond Issue, interlocal dated 18 December 1984 to fund this project and the "N" Channel improvements.

\$1,000,000 - CCRFCD interlocal dated 15 September 1987.

\$ 600,000 - Clark County Bond Issue, supplemental interlocal dated 3 March 1987.

C. WESTERN TRIBUTARY TO THE LAS VEGAS WASH. CRAIG RANCH GOLF COURSE TO CRAIG ROAD.

1. Description: A concrete lined flood control channel from the northeast corner of the Craig Ranch Golf Course southeasterly to Craig Road.

2. Status: All plans and specifications are complete and all right-of-way has been obtained. All approvals have been obtained. The project was to be advertised for bids January 22, 1989. Bids will be opened on February 17, 1989.

3. Cost: \$1,494,550 estimated.

4. Funding:

\$ 643,200 - EDA grant

\$ 595,300 - CCRFCD interlocal dated 1 March 1988

No Change - CCRFCD supplemental dated 3 May 1988 to allocate more for engineering design.

\$ 296,000 - CCRFCD second supplemental dated 21 June 1988.

D. WESTERN TRIBUTARY TO THE LAS VEGAS WASH, CRAIG ROAD TO ALEXANDER ROAD

1. Description: Concrete lined channel from Craig Road to Alexander Road.
2. Status: All plans and specifications are complete and all right-of-way has been obtained. All approvals have been obtained. The project was advertised for bids on January 22, 1989. Bids will be opened on February 17, 1989.
3. Cost: \$1,247,560 estimated.
4. Funding:
 - \$1,000,000 - CCRFCD interlocal dated 1 December 1987.
 - No Change - CCRFCD supplemental dated 3 May 1988 to allocate more for engineering design.
 - \$ 247,560 - CCRFCD second supplemental dated 21 June 1988.

E. WEST RANGE WASH DETENTION BASIN PREDESIGN

1. Description: Hydrologic analysis, sediment yield analysis, development alternatives for the best facilities to control drainage from the West Range Wash.
2. Status: A contract with Boyle Engineers was entered into on 18 January 1989. The predesign study is to be complete within 180 days.
3. Cost: Not to exceed \$245,000 (\$215,000 for this study and \$30,000 for the study of the East Range Wash Detention Basin System).
4. Funding:
 - \$ 330,000 - CCRFCD by interlocal dated 3 May 1988.

F. EAST RANGE WASH DETENTION BASIN PREDESIGN

1. Description: Hydrologic analysis, sediment yield analysis, development alternatives for the best facilities to control drainage from the East Range Wash.
2. Status: A contract with Boyle Engineers was entered into on 18 January 1989. The predesign study is to be complete within 180 days.
3. Cost: Not to exceed \$245,000 (\$30,000 for this study and \$215,000 for the study of the West Range Wash Detention Basin system).
4. Funding:

\$30,000 - CCRFCD by interlocal dated 3 May 1988.

Very truly yours,



GARY W. HOLLER, P.E.
DIRECTOR OF PUBLIC WORKS

bk

LAS VEGAS WASH AND TRIBUTARIES
(Tropicana and Flamingo Washes)

Study Team
(Executive and Study Management Committees,
and other key personnel)

Project Manager: Paul R. Blakey (602) 241-2003

LOS ANGELES DISTRICT

CESPL-DE	Dist. Engr.	ONO	(213) 894-5300
CESPL-DD-P	Dpty. DE (Proj. Mgt.)	MOORE/SCHUBEL	-0541
CESPL-PD	Planning Div.	JOE	-7962
CESPL-PD-W	Water Res. Br.	YOUNG	-5435
CESPL-PD-WE	Economics Sec.	MANIEY/CONNOR	-7915/2027
CESPL-PD-WF	Fld. Plain Sec.	GRIGORIAN	-5375
CESPL-PD-WC	Plng. Sec. C	DIXON/BLAKEY	(602) 241-2003
CESPL-PD-R	Environ. Res. Br.	VILLALOBOS	(213) 894-5413
CESPL-PD-RL	Environ. Supt. Sec	MACIAS/STEVENS	-6088/6079
CESPL-ED	Engineering Div.	ENSON	-5470
CESPL-ED-H	Hydro./Hydrau. Br.	EVELYN	-5520
CESPL-ED-HE	Hydrology Sec.	MARFICE/PEDERSON	-4753/4759
CESPL-ED-HH	Hydraulics Sec.	TRACEY/MASHEURN	-5524/5497
CESPL-ED-D	Design Br.	HALL	-5466
CESPL-ED-DB	Design Sec. B	FORD/KARAKAWA	-5530/2245
CESPL-ED-G	Geotech. Br.	LAURO	-5477
CESPL-ED-GG	Geol. Sec.	MINOR/EASTERLY	-5479/5487
CESPL-ED-GI	Matl. Invest. Sec.	GUTSCHOW/HALCZAK	-5489/5485
CESPL-ED-GD	Soils Sec.	ROODSARI/SWIER	-5453/3090
CESPL-RE-A	Real Est. Apprsl. Br.	RAYBURN/SOBCZYK	-3226/3223
CESPL-PB	Prog. and Budgt. Br.	GRABLIN	-5482
CESPL-PB	Plan Form. Sec.	NAGAI	-0944
CESPL-PB	Plan Exec. Sec.	VIBAR/YIP	-0940/5430
CESPL-RM-F	Finance / Acctg. Br.	LOO	-5364

SOUTH PACIFIC DIVISION

CESPL-PD	Planning	DUNN	(415) 556-1154
CESPL-PD-P	Plan Form.	YAMAMOTO/WALKER	-7342

SACRAMENTO DISTRICT

CESPK-CO-O	Regulatory	CHAMP/JAUNELL/DONALDSON	(916) 551-2275/2268/2275
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CLARK COUNTY REGIONAL

<u>FLOOD CONTROL DISTRICT</u>			(702) 455-3139
BOARD OF DIRECTORS		BRUCE WOODBURY	
GENERAL MANAGER		VIRGINIA BAX-VALENTINE	

U.S. ARMY CORPS OF ENGINEERS
Los Angeles District

LAS VEGAS WASH AND TRIBUTARIES
STUDY STATUS
1 February 1989

I. STATUS

Phase I of Tropicana/Flamingo study is on schedule. Specific technical section status items include:

HYDROLOGY - Reevaluating subbasin boundaries and modifying without project discharges as per the development of overflows on the alluvial fan in the west valley and the hydraulic reevaluation of downstream constraints.

HYDRAULICS - Alluvial fan evaluation continues to include development of overflows and sediment transport analysis. Evaluation of all existing constraints (channels, pipes, bridges, embankments, etc.) is also under way.

ECONOMICS - Field work in January included determining structure elevations in the Tropicana and Flamingo overflow areas. Interviews were held with representatives from casinos in the overflow areas to determine potential damages.

ENVIRONMENTAL - Draft notice for Federal Register prepared. Contacts continue with BLM and Dames and Moore for Master Plan EIS. Public Workshop for Master Plan EIS attended on 4 January. Environmental scoping meeting for the Corps' study on Tropicana/Flamingo washes is tentatively scheduled for last week in March 1989.

STUDY MANAGEMENT - Study Management Committee met in Los Angeles on 27 January 1989. Planning Section C has met with BLM, City of Las Vegas, and Clark County for purposes of developing a land use plan on the alluvial fans. This plan will be used to evaluate "flood inundation reduction", "savings in cost of local protection", and "location" benefits on the fan.

GEOTECHNICAL - Working with CCRFCD to obtain permits for geotechnical explorations that will be conducted in Phase II.

II. PROGRESS

All activities reported to be on schedule. Completion of all Phase I activities will be complete by 10 March 1989. Between 10 March and 25 March 1989, the entire study team will be involved in developing the "Corps Plan" that will be analyzed in Phases II and III. Please be available.

Phase II is programmed to start on 26 March 1989. The entire study team is requested to provide the study manager with hired labor estimates, a listing of specific technical activities that will be accomplished and a proposed scope and schedule for these activities. This will help facilitate the development of Phase II ESRs. The study manager will provide a definitive "scope of study" for the team, but this will not be available until the close of Phase I.

III. FUNDING

The CCRFCD has provided in full, their required cash contribution for FY 89. As a result, there are currently enough funds to conduct Phase II. The District is in the process of obtaining its required balance of FY 89 funds. These additional federal funds will be needed by July 1989 to maintain the March 1990 completion date.

IV. SCHEDULE

Schedule remains as distributed last month. Phase II will be initiated on 26 March 1989. All technical sections will be expected to initiate work on the "Corps Plan".

V. UPCOMING MEETINGS

21 February 1989 - Study Management Committee Meeting in Los Angeles. Again, all technical sections, please be available to participate in the plan formulation of the "Corps plan" between 10 March and 25 March 1989.


PAUL R. BLAKEY
Project Manager

**CLARK COUNTY
REGIONAL
FLOOD CONTROL
DISTRICT
FLOOD CONTROL
MASTER PLAN**

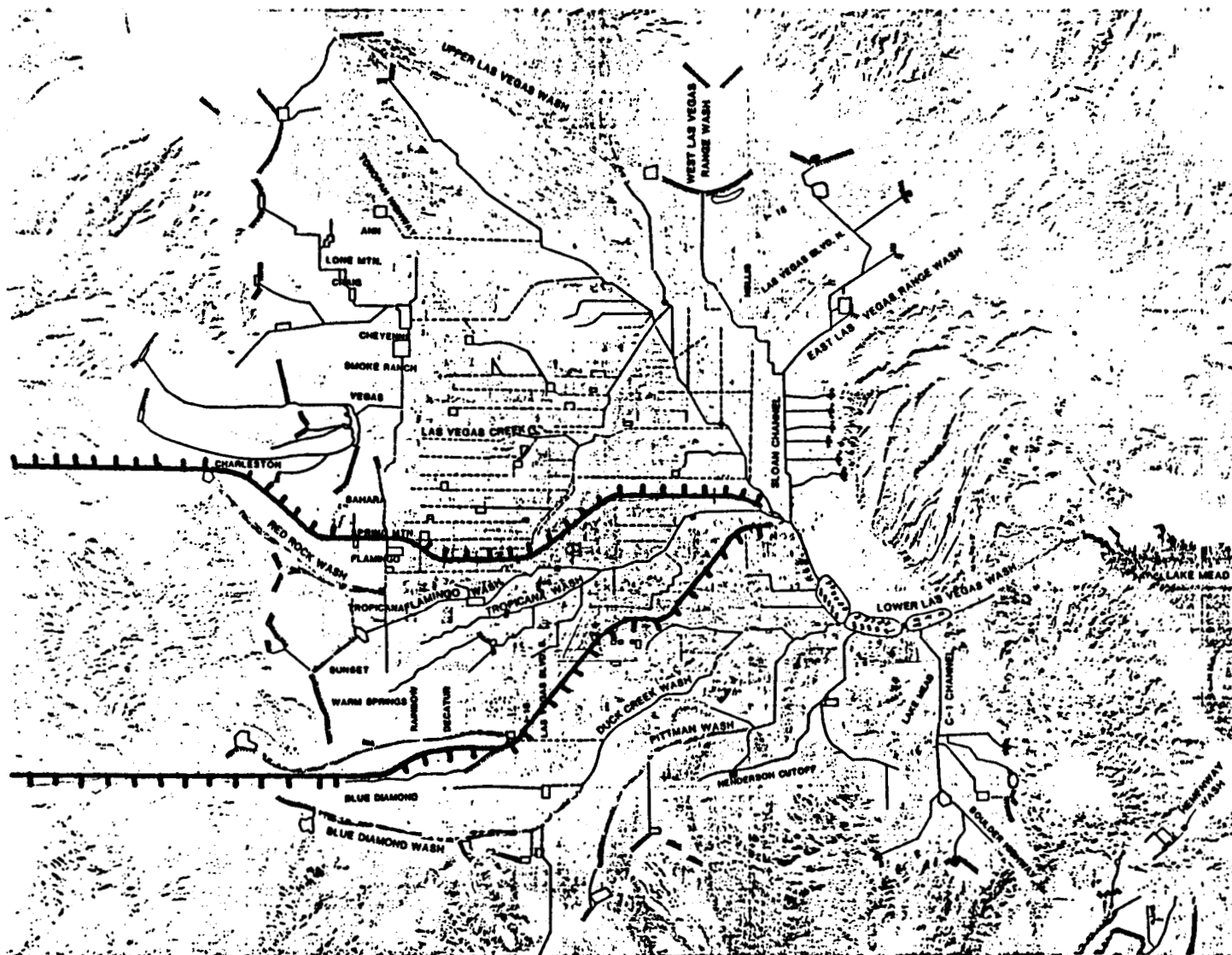


LEGEND

- CHANNEL
- PIPELINE/BOX CONDUIT
- DIKE/LEVEE
- DETENTION/RETENTION BASIN
- DEBRIS BASIN
- FLOODWAY
- BRIDGE/CULVERT
- FACILITIES IN GREEN DESIGNATE PHASE 1 FACILITIES
- FACILITIES IN BLACK DESIGNATE PHASE 2 FACILITIES

**RECOMMENDED
FLOOD CONTROL
ALTERNATIVE
PHASE 1 AND 2
FACILITIES
LAS VEGAS VALLEY
FIGURE 4**

J M
JAMES M. MONTGOMERY
CONSULTING ENGINEERS, INC.



APPROXIMATE STUDY AREA BOUNDARY
LAS VEGAS WASH AND TRIBUTARIES
(TROPICANA AND FLAMINGO WASHES), NV

REGIONAL FLOOD CONTROL DISTRICT
OF
CLARK COUNTY
AGENDA ITEM

Subject: FINANCIAL REPORTS
Petitioner: VIRGINIA BAX-VALENTINE, P.E., GENERAL MANAGER/CHIEF ENGINEER
Recommendation: NO ACTION REQUIRED

Fiscal Impact:

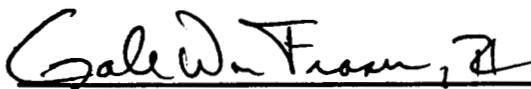
NONE

Background:

The following financial reports are submitted for your review:

- a) Fund Balance Reports (286 & 443)
- b) Monthly Expenditure Report (286)
- c) Project Expense Summary
- d) Revenue Report

Respectfully submitted,



for VIRGINIA BAX-VALENTINE, P.E.
General Manager/Chief Engineer

T.C. AGENDA ITEM # 11 Date: 2-23-89	FCD AGENDA ITEM 15 Date: 3-09-89
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REGIONAL PLANNING CONTROL DISTRICT
FUND 286 BALANCE

JANUARY 31, 1989

CURRENT ASSETS

\$ 14,220,118.31

Receipts

1.	Sales tax	1,410,685.72
2.	Interest Earnings	69,345.48
3.	Sale of Materials	720.00
4.	FEMA Workshop Registration Fees	75.00

1,480,826.20

TOTAL ASSETS

\$ 15,700,944.51

CURRENT LIABILITIES

Payments: January 1989

1.	RTC Payroll	106.78
2.	Administrative Expenditures	40,286.14
3.	Professional Services	486,801.00
4.	Transfer to Fund 443	0.00

TOTAL LIABILITIES

\$ 527,193.92

FUND BALANCE

\$ 15,173,750.59

Add: RTC Payroll
Comptrollers Adjustment

106.78

70.00

FUND BALANCE TOTAL

\$ 15,173,927.37

OTHER RESOURCES:

Cost Sharing Escrow Account Balance
as of January 31, 1989

\$

4,766.19

REGIONAL FLOOD CONTROL DISTRICT
FUND 443 BALANCE

JANUARY 31, 1989

CURRENT ASSETS

Beginning cash balance January 1 \$ 9,282,464.55

Receipts:

1. No entries 0.00

TOTAL ASSETS JANUARY 31 \$ 9,282,464.55

CURRENT LIABILITIES

Payments: January 1989

1. Comptroller's Payments \$ 544,554.33

TOTAL LIABILITIES JANUARY 30 \$ 544,554.33

FUND BALANCE TOTAL \$ 8,737,910.22

REGIONAL FLOOD CONTROL DISTRICT
 MONTHLY EXPENDITURE REPORT
 FUND 286 CLAIMS PAID BY COMPTROLLER
 JANUARY 31, 1989

EXPENSE CLASS	DATE	VENDOR	REFERENCE	AMOUNT
7010	04-Jan-89	Star West Systems	P041385	52.48
7010	31-Jan-89	Central Supply	December	373.60
7060	10-Jan-89	E & M Hardware	150080	93.33
7060	10-Jan-89	StarWest System	380	79.95
7110	15-Dec-88	Automotive	27933	661.84
7110	12-Jan-89	Automotive	27950	30.63
7120	04-Jan-89	Clark Place Asc	December	111.60
7120	10-Jan-89	Nimbus Engineer	FEMA Wrkshop	226.75
7140	05-Jan-89	Telecommunications	12/88	518.90
7160	06-Jan-89	Comprehen.Liab.Ins.	28182	5,000.00
7250	12-Jan-89	Mail Services	28556	366.30
7270	28-Dec-88	Dazey Travel	33553	265.00
7270	28-Dec-88	Reimb. VBV	12/11/88	273.44
7270	29-Dec-88	Reimb. GWF, Reno	12/1/88	5.36
7270	29-Dec-88	Dazey Travel	33749	240.00
7270	03-Jan-89	Treas/Compt.	GWF, Sacramento	150.00
7270	30-Jan-89	AVIS	Journal Entry	56.96
7280	28-Dec-88	Cent. Duplicating	28161	58.32
7280	06-Jan-89	Cent. Duplicating	December	9.56
7280	12-Jan-89	Cent. Duplicating	28163	689.90
7280	06-Jan-89	Pro Process	8061	53.76
7280	10-Jan-89	Pro Process	8093	29.88
8040	29-Dec-88	Lee Office Equip.	P072027	130.00
8040	29-Dec-88	Mercury Blueprint	P072314	130.00
8040	04-Jan-89	Sarret Office	P072313	248.00
8040	04-Jan-89	Star West System	P072113	1,879.75

				11,735.31

PROFESSIONAL SERVICES:

7210	12-Jan-89	Joseph C. Hill	FEMA Wrkshop	101.00
7210	10-Jan-89	FIB Trust Dept.	Escrow	486,000.00
7210	10-Jan-89	Michael J.Baker	FEMA Wrkshop	700.00

				486,801.00
	January 89	Payroll		22,299.75
	January 89	Insurance & Benefits		6,251.08

				28,550.83

\$ 527,087.14
 =====

FUND 443
 REGIONAL FLOOD CONTROL DISTRICT
 PROJECT EXPENSE/INTERLOCAL AGREEMENT BALANCE
 JANUARY 31, 1989

PROJECT NUMBER	PROJECT NAME	INTERLOCAL AGREEMENT AMOUNT	PURCHASE ORDER AMOUNT	INTERLOCAL AGREEMENT BALANCE	VENDOR	CURRENT MONTH PAYMENTS	TOTAL EXPENDITURES	PURCHASE ORDER BALANCE
A 01 A	W. Trib. L.V. Wash Craig/Alexander	1,247,560.00	1,247,560.00	0.00	C/N. Las Vegas	0.00	22,971.00	1,224,589.00
A 01 B	W. Trib. L.V. Wash Golf course/Craig Rd.	851,350.00	851,350.00	0.00	C/N. Las Vegas	0.00	38,945.64	812,404.36
A 06 A	Las Vegas Wash I-15 to Pecos Rd.	304,380.00	304,380.00	0.00	C/N. Las Vegas	0.00	59,209.71	245,170.29
A 06 B	Realignment-LV Wash	1,000,000.00	1,000,000.00	0.00	C/N. Las Vegas	40,000.00	443,584.95	556,415.05
A 10 A	W. Rg. Wash Det. Basin	360,000.00	0.00	360,000.00	NLV	0.00	0.00	0.00
A 12 A	E. Rg. Wash Det. Basin	30,000.00	0.00	30,000.00	NLV	0.00	0.00	0.00
B 01 A	Angel Park Outflow Structure	2,700.00	2,350.00 350.00	0.00	B.C. Wallace C/Las Vegas	0.00 189.72	2,294.00 189.72	56.00 160.28
B 02 A	Angel Park/Gowan Det. Basin	94,200.00	82,400.00 11,800.00	0.00	B.C. Wallace C/Las Vegas	0.00 474.54	73,093.57 474.54	9,306.43 11,325.46
B 03 A	Gowan Road Detention System	216,000.00	190,200.00 25,000.00	800.00	B.C. Wallace C/Las Vegas	0.00 3,396.12	167,714.21 3,437.70	2,485.79 21,562.30
B 05 A	Oakey Blvd. Storm Drain	126,000.00	110,234.00 15,700.00	66.00	Kennedy/Jenks C/Las Vegas	0.00 153.24	110,234.00 872.72	0.00 14,827.28
B 06 A	Meadows Detention	120,000.00	120,000.00	0.00	Boyle Engr.	0.00	120,000.00	0.00
B 06 B	Meadows Det. Bas. II	3,818,700.00	3,497,973.00 280,766.45	39,960.55	Boulder Constr C/Las Vegas	448,522.21 0.00	1,643,571.70 0.00	1,854,401.30 280,766.45
B 07 A	Maj. Convey. System West of I-15	311,900.00	271,200.00 39,000.00	1,700.00	M.E.A. C/Las Vegas	0.00 379.52	228,131.34 842.25	43,068.66 38,157.75
B 08 A	Maj. Convey. System East of I-15	39,600.00	33,000.00 5,000.00	1,600.00	M.E.A. C/Las Vegas	0.00 189.72	28,773.53 248.97	4,226.47 4,751.03

FUND 443
 REGIONAL FLOOD CONTROL DISTRICT
 PROJECT EXPENSE/INTERLOCAL AGREEMENT BALANCE
 JANUARY 31, 1989

PROJECT NUMBER	PROJECT NAME	INTERLOCAL AGREEMENT AMOUNT	PURCHASE ORDER AMOUNT	INTERLOCAL AGREEMENT BALANCE	VENDOR	CURRENT MONTH PAYMENTS	TOTAL EXPENDITURES	PURCHASE ORDER BALANCE
C 03 A	Pittman Wash Channel	522,000.00	512,225.00 9,775.00	0.00	C/Henderson TransMap	0.00 0.00	47,000.40 9,775.00	465,224.60 0.00
C 03 B	Warm Spr. Rd. /Steph. Brdg.	916,000.00	0.00	916,000.00	C/Henderson	0.00	0.00	0.00
D 02 A	Hemenway Wash	205,000.00	168,736.00	36,264.00	J. H. Montgomery	5,596.99	30,157.10	138,578.90
D 05 A	Buchanan Blvd. Channel	300,000.00	11,000.00	289,000.00	Kennedy/Jenks	2,200.00	6,600.00	4,400.00
D 06 A	Georgia Ave. Channel	300,000.00	14,000.00	286,000.00	Kennedy/Jenks	2,800.00	8,400.00	5,600.00
D 07 A	Hemenway Wash Debris Bas	145,000.00	0.00	145,000.00	C/Boulder City	0.00	0.00	0.00
E 02 A	Town Wash Det. Bas.	10,000.00	0.00	10,000.00	C/Mesquite	0.00	0.00	0.00
F 01 A	Up. Flamingo Det. Bas.	440,000.00	370,000.00 70,000.00	0.00	Black & Veatch C.C. Treasurer	0.00 4,158.19	153,720.79 4,158.19	216,279.21 65,841.81
F 24 A	Rawhide Channel	70,000.00	70,000.00	0.00	Clark County	646.54	686.54	69,313.46
F 25 A	Van Buskirk Channel	150,000.00	150,000.00	0.00	Clark County	419.41	460.41	149,539.59
J 01 A	Nelson F.C. Improvements	70,000.00	0.00	70,000.00	C/Nelson	0.00	0.00	0.00
K 01 A	Goodsprings F.C. Impr.	99,000.00	0.00	99,000.00	C/Goodsprings	0.00	0.00	0.00
L 01 A	Searchlight F.C. Impr.	172,000.00	0.00	172,000.00	C/Searchlight	0.00	0.00	0.00
TOTALS		11,921,390.00	9,463,999.45	2,457,390.55		509,126.20	3,225,547.98	6,238,451.47
THE LAKES AT LAS VEGAS		0.00	67,700.00	0.00	Harza Engineer	44,999.26	44,999.26	22,700.74
						554,125.46		

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
SALES TAX REVENUES

MONTH REVENUE GENERATED	MONTH SALES TAX RECEIVED	1/4 CENT SALES TAX ESTIMATE	SALES TAX REVENUES	CUMULATIVE TOTAL	DIFFERENCE OVER/(UNDER)
SUBTOTAL-FY 86-87		\$3,142,683.00	\$3,515,643.20	\$3,515,643.20	\$372,960.20
SUBTOTAL-FY 87/88		\$13,108,371.00	\$15,199,769.94	\$18,715,413.14	\$2,091,398.94
JUNE	AUGUST	\$1,305,847.00	\$1,399,564.05	\$20,114,977.19	\$93,717.05
JULY	SEPTEMBER	\$1,232,067.00	\$1,368,029.42	\$21,475,006.61	\$127,962.42
AUGUST	OCTOBER	\$1,242,936.00	\$1,416,013.83	\$22,891,020.44	\$173,077.83
SEPTEMBER	NOVEMBER	\$1,323,853.00	\$1,467,500.97	\$24,358,521.41	\$143,647.97
OCTOBER	DECEMBER	\$1,292,347.00	\$1,400,199.81	\$25,758,721.22	\$107,852.81
NOVEMBER	JANUARY	\$1,112,399.00	\$1,410,685.72	\$27,169,406.94	\$298,286.72
DECEMBER	FEBRUARY	\$1,341,838.00			
JANUARY	MARCH	\$1,052,007.00			
FEBRUARY	APRIL	\$1,064,192.00			
MARCH	MAY	\$1,264,695.00			
APRIL	JUNE	\$1,200,714.00			
MAY	JULY	\$1,277,105.00			
SUBTOTAL-FY 88/89		\$14,710,000.00	\$8,453,993.00		

VARIANCE CONDITIONS

LAKE AT LAS VEGAS

March 8, 1989

1. Execution of the AGREEMENT between the City of Henderson and the Lake at Las Vegas Joint Venture.
2. Execution of the EASEMENT, Exhibit "B" of the AGREEMENT, which must be finalized and approved by the Board of County Commissioners including a legal description, Exhibit "C" OF THE AGREEMENT, identifying those areas for which the easement is granted below the elevation of 1,418 MSL (Exhibit "C" is not yet available).
3. Execution of the HOLD HARMLESS AGREEMENT, Exhibit "A" of the AGREEMENT.
4. Implement all the recommendations made in the Harza Report dated January 5, 1989.
5. Acquisition by the developer of any lands or easements for property which floods as a result of the backwaters of the dam or bypass under flood conditions and execution of easements for and such lands in favor of the District and affected entities.
6. All the requirements of these Conditions must be satisfied prior to the issuance of any building or grading permits by the City of Henderson.

DISC5:VARCOND3-8