

REGIONAL FLOOD CONTROL DISTRICT



NOTICE OF PUBLIC MEETING

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT BOARD OF DIRECTORS

NOVEMBER 08, 2018
8:30 A.M.

CLARK COUNTY COMMISSION CHAMBERS
500 SOUTH GRAND CENTRAL PARKWAY
LAS VEGAS, NV 89155

**FOR ADDITIONAL INFORMATION CONTACT:

SHERRY ALLEN, BOARD SECRETARY
600 SOUTH GRAND CENTRAL PARKWAY, SUITE 300
LAS VEGAS, NEVADA 89106
(702) 685-0000

TT/TDD: Relay Nevada toll free (800) 326-6868

This meeting has been properly noticed and posted at the following locations:

Clark County Regional Flood Control District 600 South Grand Central Parkway Las Vegas, Nevada 89106	Clark County Regional Flood Control District Worldwide Website www.regionalflood.org
Clark County Government Center 500 South Grand Central Parkway Las Vegas, Nevada 89155	City of Boulder City 401 California Boulder City, Nevada 89005
City of Henderson 240 Water Street Henderson, Nevada 89015	City of Las Vegas 495 S. Main Street Las Vegas, Nevada 89101
City of Mesquite 10 East Mesquite Boulevard Mesquite, Nevada 89027	City of North Las Vegas 2250 Las Vegas Boulevard North Ste. 800 North Las Vegas, Nevada 89030
The Notice, Agenda, and Agenda Full-Backup have been posted on the District's Website at www.regionalflood.org	The Notice has been posted on the State of Nevada Public Notice Website at https://notice.nv.gov/

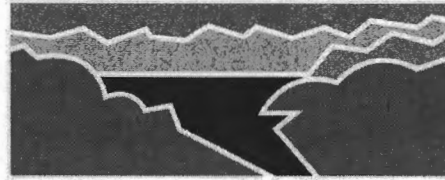
By: *Dorothy Davis*

**Supporting material available upon request.

1. **Comments By the General Public**

This is a period devoted to comments by the general public about items on **this** agenda. If you wish to speak to the Regional Flood Control District Board of Directors about items within its jurisdiction but not appearing on this agenda, you must wait until the "Comments By the General Public" period listed at the end of this agenda. Comments will be limited to three minutes. Please step up to the speaker's podium, clearly state your name and address and please **spell** your last name for the record. If any member of the Regional Flood Control District Board of Directors wishes to extend the length of a presentation, this will be done by the Chairman, or the Regional Flood Control District Board of Directors by majority vote.

REGIONAL FLOOD CONTROL DISTRICT



**CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
BOARD OF DIRECTORS
NOVEMBER 8, 2018
8:30 A.M.**

- Items on the agenda may be taken out of order.
- The Regional Flood Control District Board of Directors may combine two or more agenda items for consideration.
- The Regional Flood Control District Board of Directors may remove an item from the agenda or delay discussion relating to an item on the agenda at any time.

I. Call to Order

1. Comments By the General Public

This is a period devoted to comments by the general public about items on **this** agenda. If you wish to speak to the Regional Flood Control District Board of Directors about items within its jurisdiction but not appearing on this agenda, you must wait until the "Comments By the General Public" period listed at the end of this agenda. Comments will be limited to three minutes. Please step up to the speaker's podium, clearly state your name and address and please **spell** your last name for the record. If any member of the Regional Flood Control District Board of Directors wishes to extend the length of a presentation, this will be done by the Chairman, or the Regional Flood Control District Board of Directors by majority vote.

2. Action to approve the agenda with deletion of any items (*For possible action*)
3. Action to approve the minutes of the October 11, 2018 meeting (*For possible action*)
4. Discuss General Manager's Monthly Report

II. *Consent Agenda – Items #05 through #15 are considered by the Regional Flood Control District to be routine and may be acted upon in one motion. However, the Board of Directors may discuss any consent item individually if requested by a Board member or a citizen when the consent agenda is considered for approval. Items considered for approval include the staff recommendation.**

Administration

5. Action to accept the financial reports *(For possible action)*
6. Action to adopt amendments to the Ten Year Construction Program *(For possible action)*
7. Action to accept the Fiscal Year 2017-18 Maintenance Work Program final accounting reports and close out the interlocal contracts *(For possible action)*
8. Action to accept the Fiscal Year 2018-19 Maintenance Work Program status reports as submitted by the entities *(For possible action)*
9. Action to approve and authorize the Chairman to sign the interlocal agreement between Clark County Regional Flood Control District and Clark County to establish an equitable funding mechanism for routine maintenance of channels through the Club at Sunrise Golf Course *(For possible action)*
10. Flood Threat Recognition System ALERT2 Upgrade *(For possible action)*
 - a. Action to approve an upgrade of the Flood Threat Recognition System to the ALERT2 protocol and authorize the General Manager/Chief Engineer to sign the Letter of Intent
 - b. Action to approve and authorize the Chairman to sign the professional services agreement with Water and Earth Technologies for an upgrade of the Flood Threat Recognition System to the ALERT2 protocol
11. Action to approve and authorize the Chairman to sign the consultant contract with Louis Berger U.S., Inc., to prepare a Master Plan Update for the Outlying Areas of Clark County, including Blue Diamond, Coyote Springs, Goodsprings, Indian Springs, Jean, Laughlin, Mount Charleston, Nelson, Primm, and Searchlight *(For possible action)*

Design and Construction

12. Action to approve the requests to reallocate funding within the interlocal contracts for design for the following projects *(For possible action)*:
 - a. Duck Creek, Las Vegas Boulevard – Clark County
 - b. Las Vegas Wash – Sloan Channel to Bonanza Road and Flamingo Wash below Nellis Boulevard – Clark County

13. Action to approve change order no. 2 for construction for Horizon Ridge Detention Basin – City of Henderson *(For possible action)*
14. Receive a report on the award of bid for construction for Range Wash – Ann Branch, Phase I – City of North Las Vegas
15. Hollywood System, Dunes South Detention Basin to Centennial Parkway – Phase I – City of North Las Vegas
 - a. Action to approve and authorize the Chairman to sign the first supplemental interlocal contract for construction to decrease funding *(For possible action)*
 - b. Receive a report on the award of bid for construction

***** End of Consent Agenda**

III. Discussion Items

Design and Construction

16. LVW – Moccasin, Skye Canyon Park to Upper LVW – City of Las Vegas *(For possible action)*
 - a. Action to accept the project presentation
 - b. Action to approve and authorize the Chairman to sign the interlocal contract for construction
17. Action to adopt the Flood Control Master Plan Update for the City of Boulder City as an amendment to the Master Plan *(For possible action)* – **THIS IS A PUBLIC HEARING**

Administration

18. Discussion and possible action to appoint a committee to evaluate the performance of the General Manager – 2018 review *(For possible action)*
19. **Comments By the General Public**

A period devoted to comments by the general public about matters relevant to the Regional Flood Control District Board of Directors jurisdiction will be held. No vote may be taken on a matter not listed on the posted agenda. Comments will be limited to three minutes. Please step up to the speaker's podium, clearly state your name and address and please **spell** your last name for the record. If any member of

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the Regional Flood Control District Board of Directors wishes to extend the length of a presentation, this will be done by the Chairman, or the Regional Flood Control District Board of Directors by majority vote.

All comments by speakers should be relevant to the Regional Flood Control District Board of Directors action and jurisdiction.

REGIONAL FLOOD CONTROL DISTRICT



Steven C. Parrish, P.E.
General Manager/Chief
Engineer

BOARD OF DIRECTORS

Lawrence L. Brown, III
Chairman
Clark County

Mayor Debra March
Vice-Chairman
City of Henderson

David Ballweg
City of Mesquite

Chris Giunchigliani
Clark County

Mayor Carolyn Goodman
City of Las Vegas

Mayor John J. Lee
City of North Las Vegas

Dr. Lois Tarkanian
City of Las Vegas

Mayor Rodney Woodbury
City of Boulder City

MEMORANDUM
NOVEMBER 8, 2018

TO: BOARD OF DIRECTORS

FROM: STEVEN C. PARRISH, P.E.
GENERAL MANAGER/CHIEF ENGINEER

DATE: October 30, 2018

I. Call to Order

1. Comments By the General Public

This is a period devoted to comments by the general public about items on **this** agenda. If you wish to speak to the Regional Flood Control District Board of Directors about items within its jurisdiction but not appearing on this agenda, you must wait until the "Comments By the General Public" period listed at the end of this agenda. Comments will be limited to three minutes. Please step up to the speaker's podium, clearly state your name and address and please **spell** your last name for the record. If any member of the Regional Flood Control District Board of Directors wishes to extend the length of a presentation, this will be done by the Chairman, or the Regional Flood Control District Board of Directors by majority vote.

2. Action to approve the agenda with deletion of any items (*For possible action*)

The agenda is in order for approval.

3. Action to approve the minutes of the October 11, 2018 meeting (*For possible action*)

The minutes are in order for approval.

4. Discuss General Manager's Monthly Report

Receive the report.



Memorandum

Clark County Regional Flood Control District

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- II. *****Consent Agenda – Items #05 through #15 are considered by the Regional Flood Control District to be routine and may be acted upon in one motion. However, the Board of Directors may discuss any consent item individually if requested by a Board member or a citizen when the consent agenda is considered for approval. Items considered for approval include the staff recommendation.**

Administration

5. Action to accept the financial reports (For possible action)

The financial reports are in order for acceptance.

6. Action to adopt amendments to the Ten-Year Construction Program (For possible action)

In accordance with Policies and Procedures Section II.B.9 general amendments can be processed to address scheduling changes and/or the need for additional funding. This agenda item addresses requested changes in funding, positive and negative, associated with this agenda as they impact the Ten-Year Construction Program (TYCP). Clark County has also submitted an amendment request. Staff, TAC and CAC recommend approval.

7. Action to accept the Fiscal Year 2017-18 Maintenance Work Program final accounting reports and close out the interlocal contracts (For possible action)

Final accounting reports have been prepared for the fiscal year 2017-18 Maintenance Work Program, ending June 30, 2018. The reports represent an accurate accounting of the charges and the remaining balances. Any maintenance work that was not completed during fiscal year 2017-18 has been reprogrammed within each entity's fiscal year 2018-19 program.

Staff, TAC and CAC recommend approval and closeout the interlocal contracts for FY 2017-18.

8. Action to accept the Fiscal Year 2018-19 Maintenance Work Program status reports as submitted by the entities (For possible action)

In accordance with the Board's direction, the entities have submitted the First Quarter Status Reports for the FY 2018-19 Maintenance Work



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Program (MWP). The reports indicate the status of work completed under the program through September 30, 2018, although the figures below represent only those expenses which have been submitted to the District for payment.

Staff recommend accepting the reports.

9. Action to approve and authorize the Chairman to sign the interlocal agreement between Clark County Regional Flood Control District and Clark County to establish an equitable funding mechanism for routine maintenance of channels through the Club at Sunrise Golf Course (*For possible action*)

On October 10, 2013, the Board of Directors approved an interlocal contract to fund the construction and construction management of the Las Vegas Wash – Sloan Channel to Bonanza Road and Flamingo Wash below Nellis Boulevard project. Construction of the project was completed in March 2015. This project included improvements to increase the storm carrying capacity of a section of the Las Vegas Wash and a section of the Flamingo Wash through the Desert Rose Golf Course, now known as the Club at Sunrise Golf Course.

The design of the project was completed by Clark County Public Works (CCPW) with input from Clark County Parks and Recreation (CC P&R) to conform to the existing land use of a public golf course. The channels were engineered with a reinforced turf lining. A maintenance and operation plan was developed by Clark County's consultant to define the maintenance responsibilities of CCPW and CC P&R regarding the channels through the golf course and the golf course itself.

Annually, the District establishes a budget for the maintenance and operations of completed flood control facilities, subject to approval by the District Board of Directors. This Interlocal Agreement (ILA) will establish an equitable funding mechanism for routine maintenance of the channels through the Club at Sunrise Golf Course utilizing the funds allocated in the separate annual operations and maintenance interlocal agreement with Clark County. Funding for continued maintenance and operations of these channels shall be requested by Clark County in accordance with this ILA in their



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annual interlocal agreement maintenance budget request, subject to approval of the District's Board of Directors.

It is requested that the District Board of Directors approve this Interlocal Agreement setting forth the responsibilities of the District and Clark County to maintain the Las Vegas Wash and the Flamingo Wash through the Club at Sunrise Golf Course.

Staff, TAC and CAC recommend approval.

10. Flood Threat Recognition System ALERT2 Upgrade (*For possible action*)

a. Action to approve an upgrade of the Flood Threat Recognition System to the ALERT2 protocol and authorize the General Manager/Chief Engineer to sign the Letter of Intent

Since 1989, the District has operated and maintained a Flood Threat Recognition System (FTRS). The FTRS consists of more than 200 weather stations and rain gauges throughout Clark County. The FTRS is designed to provide real-time weather data for the purpose of detecting situations which could cause flooding. The FTRS is a critical part of efforts to protect life and property from the adverse impacts of flooding in Southern Nevada. Data is used to notify emergency responders, the National Weather Service, the United States Geological Survey, and other stakeholders when conditions for flooding are developing or occurring.

Data transmissions from the FTRS gauges use a protocol called the Automated Local Evaluation in Real Time (ALERT). Originally developed in the 1970s, this protocol is increasingly being phased out by users and equipment vendors and being replaced by a protocol referred to as ALERT2. ALERT2 is the next generation protocol that has substantial advantages over the ALERT system currently being deployed for the FTRS. One of the principle benefits of upgrading to the ALERT2 protocol is that it increases the reliability and accuracy of data transmitted resulting from built in error checking. Under the current ALERT system,



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multiple sites may attempt to send data at the same time resulting in data collisions that can cause data errors or prevent any data from being received during large storm events when numerous stations are transmitting at the same time. The ALERT2 protocol transmits data such that collisions do not occur, resulting in more reliable data.

At this time, the District is requesting approval to utilize HydroLynx Systems, Inc. for the purchase of hardware necessary to adopt the ALERT2 protocol for the FTRS.

Pursuant to NRS 332.115, the items purchased are exempted from the requirements of the competitive bidding process. The backup includes the quotes listing the various equipment to be purchased. Purchases in excess of \$50,000 require approval of the Board of Directors. Sufficient funds are available for this purchase.

Staff, TAC and CAC recommend approval.

b. Action to approve and authorize the Chairman to sign the professional services agreement with Water and Earth Technologies for an upgrade of the Flood Threat Recognition System to the ALERT2 protocol

Since 1989, the District has operated and maintained a Flood Threat Recognition System (FTRS). The FTRS consists of more than 200 weather stations and rain gauges throughout Clark County. The FTRS is designed to provide real-time weather data for the purpose of detecting situations which could cause flooding. The FTRS is a critical part of efforts to protect life and property from the adverse impacts of flooding in Southern Nevada. Data is used to notify emergency responders, the National Weather Service, the United States Geological Survey, and other stakeholders when conditions for flooding are developing or occurring.

Data transmissions from the FTRS gauges use a protocol called the Automated Local Evaluation in Real Time (ALERT). Originally developed in the 1970s, this protocol is increasingly being phased out by users and equipment



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vendors and being replaced by a protocol referred to as ALERT2. ALERT2 is the next generation protocol that has substantial advantages over the ALERT system currently being deployed for the FTRS. One of the principle benefits of upgrading to the ALERT2 protocol is that it increases the reliability and accuracy of data transmitted resulting from built in error checking. Under the current ALERT system, multiple sites may attempt to send data at the same time resulting in data collisions that can cause data errors or prevent any data from being received during large storm events when numerous stations are transmitting at the same time. The ALERT2 protocol transmits data such that collisions do not occur, resulting in more reliable data.

At this time, the District is requesting approval to utilize Water and Earth Technologies, Inc., for the purchase, installation and configuration of hardware and training necessary to adopt the ALERT2 protocol for the FTRS.

Pursuant to NRS 332.115, the items purchased are exempted from the requirements of the competitive bidding process. The backup includes the quotes listing the various hardware and services to be purchased. Purchases in excess of \$50,000 require approval of the Board of Directors. Sufficient funds are available for this purchase.

Staff, TAC and CAC recommend approval.

11. **Action to approve and authorize the Chairman to sign the consultant contract with Louis Berger U.S., Inc., to prepare a Master Plan Update for the Outlying Areas of Clark County, including Blue Diamond, Coyote Springs, Goodsprings, Indian Springs, Jean, Laughlin, Mount Charleston, Nelson, Primm, and Searchlight (*For possible action*)**

The District is required by statute (NRS 543.596) to update the Master Plan at least once every five years. The Master Plan for Outlying Areas of Clark County was last updated and adopted by the Board on April 10, 2014. At the May 24, 2018 meeting, the Board authorized the General Manager to solicit proposals, select a consultant, and negotiate a professional services contract to prepare



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a Master Plan Update for the Outlying Areas of Clark County.

Two (2) proposals were received prior to the deadline on June 14, 2018. A review committee was formed consisting of staff from the Regional Flood Control District and Clark County Public Works. Based on the committee rankings of the written proposals, staff has selected Louis Berger U.S., Inc., and has completed contract negotiations. Funding is available in the FY 2018-2019 budget approved by the Board on April 12, 2018. The contract has been reviewed by the District Attorney and is included in the backup.

Staff, TAC and CAC recommend approval.

Design and Construction

12. Action to approve the requests to reallocate funding within the interlocal contracts for design for the following projects (*For possible action*):

a. Duck Creek, Las Vegas Boulevard – Clark County

Clark County has submitted a request to reallocate funding within the interlocal contract for design engineering, right-of-way and environmental mitigation dated September 12, 2013 and supplemented June 14, 2018 for the Duck Creek, Las Vegas Boulevard project.

The County now requests additional funds to pay for in-house labor costs used to acquire Right-of-Way. Staff, TAC and CAC recommend approval.

b. Las Vegas Wash – Sloan Channel to Bonanza Road and Flamingo Wash below Nellis Boulevard – Clark County

Clark County has submitted a request to reallocate funding within the interlocal contract for design engineering, right-of-way, environmental mitigation, preconstruction services and a Conditional Letter of Map Revision/Letter of Map Revision (CLOMR/LOMR) dated June 14, 2012 and supplemented December 13, 2012, May 16, 2013, February 13, 2014 and June 8, 2017 for the Las Vegas Wash – Sloan



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Channel to Bonanza Road and Flamingo Wash below Nellis Boulevard project.

The County now requests additional funding to complete the LOMR with FEMA. Staff, TAC and CAC recommend approval.

13. Action to approve change order no. 2 for construction for Horizon Ridge Detention Basin – City of Henderson (*For possible action*)

The City of Henderson has submitted a request to approve construction change order no. 2 in the amount of \$64,980 for the Horizon Ridge Detention Basin project.

Change Order No. 2 represents an increase of \$64,980 due to an extension of line item 203.02, Cutoff Trench. Engineering consultant estimated the total yards for cut-off trench based on excavating and re-compacting approximate 7 to 10 feet of native material to the depth of bedrock. The actual depth to bedrock on east slope was up to 30-feet, much greater than planned. The line item increase was a result of the additional excavation and re-compaction required.

The Interlocal Contract dated April 14, 2016 and Supplemental Interlocal Contracts dated January 11, 2018 and October 11, 2018 include sufficient funds to support this request. Staff, TAC and CAC recommend approval.

14. Receive a report on the award of bid for construction for Range Wash – Ann Branch, Phase I – City of North Las Vegas

On April 25, 2018, bids were open for Range Wash – Ann Branch, Phase I project. Five (5) bids were received ranging in cost from \$9,491,902.50 to \$11,226,082.50. With one bid rejected, the recommended best bid was to Las Vegas Paving Corporation in the amount of \$9,789,090.00 or 18.43% higher than the engineer's estimate of \$8,014,743.85 presented to the District Board in February 2018.

The Interlocal Contract dated February 8, 2018 between the District and the City allocates \$2,470,00.00 for construction of this project.



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A cash flow projection, estimated construction schedule, and a tabulation of base bid was provided to the District. Staff, TAC and CAC recommend to receiving the report.

15. Hollywood System, Dunes South Detention Basin to Centennial Parkway – Phase I – City of North Las Vegas

a. Action to approve and authorize the Chairman to sign the first supplemental interlocal contract for construction to decrease funding (*For possible action*)

The City of North Las Vegas has submitted a request to approve a first supplemental interlocal contract for construction and construction engineering to decrease funding in the amount of \$1,360,000 for the Hollywood System, Dunes South Detention Basin to Centennial Parkway – Phase I project.

The decrease is due to favorable bids. The District Attorney has reviewed the contract. Staff, TAC and CAC recommend approval subject to approval of the Ten-Year Construction Program Amendment item on this agenda.

b. Receive a report on the award of bid for construction

On May 9, 2018, bids were opened for the Hollywood System, Dunes South Detention Basin to Centennial Parkway – Phase I project. Seven (7) bids were received ranging in cost from \$11,164,234.00 to \$14,759,940.05. The recommended best bid was to TAB Contractors in the amount of \$11,164,234.00 or 9.9% lower than the engineer's estimate of \$12,397,490.00 presented to the District Board on November 9, 2017.

The Interlocal Contract dated November 9, 2017 between the District and the City allocates \$13,650,000.00 for construction of this project. There is an item on this agenda for approval to decrease construction funding to \$12,290,000.00.



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A cash flow projection, estimated construction schedule, and a tabulation of base bid was provided to the District. Staff, TAC and CAC recommend receiving the report.

***** End of Consent Agenda**

III. Discussion Items

Design and Construction

16. LVW – Moccasin, Skye Canyon Park to Upper LVW – City of Las Vegas (*For possible action*)

a. Action to accept the project presentation

The LVW – Moccasin, Skye Canyon Park to Upper LVW is described in the 2013 Master Plan Update as Facility Number LVMO 0000. It is further identified in the Regional Flood Control District's Ten-Year Construction Program with construction scheduled to begin in FY 2019-2020. The proposed improvements include construction of a 16' x 9' RCB and associated collection facilities along Moccasin Road from Skye Canyon Park Drive to the Upper Las Vegas Wash just east of Squirrels Nest Street.

Design drawings and specifications are at 90% complete, right-of-way has been obtained and all necessary permits for project acquired.

Representatives from the City of Las Vegas will be available to respond to any questions following the brief presentation. Staff, TAC and CAC recommend accepting the project presentation.

b. Action to approve and authorize the Chairman to sign the interlocal contract for construction

The City of Las Vegas has submitted a request to approve an interlocal contract in the amount of \$15,393,582 for construction and construction engineering for the LVW – Moccasin, Skye Canyon Park to Upper LVW project.



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The LVW – Moccasin, Skye Canyon Park to Upper LVW is described in the 2013 Master Plan Update as Facility Number LVMO 0000. It is further identified in the Regional Flood Control District's Ten-Year Construction Program with construction scheduled to begin in FY 2019-2020. The proposed improvements include construction of a 16' x 9' RCB and associated collection facilities along Moccasin Road from Skye Canyon Park Drive to the Upper Las Vegas Wash just east of Squirrels Nest Street.

With the total project construction cost of \$13.1 million, approximately 156 jobs will be created or sustained with this project.

This project is included in Year 2 of the Ten-Year Construction Program. The District Attorney has reviewed the contract. Staff, TAC and CAC recommend approval subject to approval of the Ten-Year Construction Program Amendment item on this agenda.

17. Action to adopt the Flood Control Master Plan Update for the City of Boulder City as an amendment to the Master Plan (*For possible action*) – THIS IS A PUBLIC HEARING

In accordance with Nevada Revised Statutes (NRS), NRS 543.596, the District is required to review its Master Plans every five years to add any new information relevant to the plan, assess progress toward fulfillment of the plan during the five-year period, identify any major obstacles to completion of the plan, and recommend amendments to the Master Plan.

On December 14, 2017, the District contracted with Atkins North America, Inc. to update the Master Plan for the City of Boulder City. This study was coordinated with representatives of the District and the Boulder City Department of Public Works, who were closely involved with the development of the Master Plan Update (MPU).

This study updated the Master Plan hydrology for Boulder City in conformance with the most current hydrologic practices and the



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District's *Hydrologic Criteria and Drainage Design Manual*. Completed flood control facilities were incorporated into the Plan, and proposed facilities were modified as necessary to complete the updated Plan.

The total plan recommended for the City of Boulder City in the 2018 MPU is estimated to cost approximately \$37,285,000. The total cost estimate presented in the 2013 plan was \$35,363,142.

A public notice has been issued to notify interested parties that a public hearing will be held to consider adoption of this amendment to the Master Plan. Copies of the Master Plan Update are available for review in the District office and at Boulder City's City Hall. Upon finding that the MPU is the most cost effective structural and regulatory means for correcting existing problems of flooding within the area and dealing with the probable effects of future development (NRS 543.590), the MPU will be adopted by the Board. Upon adoption by the Board, the MPU will be forwarded to the affected governing body to be considered for adoption in accordance with NRS 543.597 (5,6). The MPU will not become effective until it is adopted as an amendment by the City of Boulder City.

Included in the backup is the Executive Summary from the Boulder City Master Plan Update.

Staff, TAC and CAC recommend that the Board find that the Master Plan Update (MPU) is the most effective structural and regulatory means for correcting existing problems of flooding within the area and dealing with the probable effects of future development and adopt the MPU for the City of Boulder City as an amendment to the Master Plan. The MPU will not become effective until it is adopted as an amendment by the City of Boulder City.

Administration

18. Discussion and possible action to appoint a committee to evaluate the performance of the General Manager – 2018 review
(For possible action)

It is the policy of the Board to evaluate the performance of the General Manager. In keeping with the Board's past practice, it is

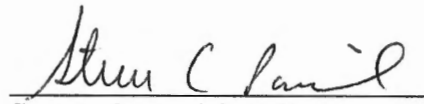


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Clark County Regional Flood Control District
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recommended that the Board consider appointing a committee of its members to review the General Manager's performance for 2018 and to recommend goals and objectives for 2019. The committee's recommendations will be presented to the Board for consideration. Staff recommends that the Board appoint a committee.

19. Comments By the General Public

Respectfully submitted,



Steven C. Parrish, P.E.
General Manager/Chief Engineer

MINUTES
CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
BOARD OF DIRECTORS
OCTOBER 11, 2018
8:34 A.M.

These minutes are prepared in compliance with NRS 241.035. Text is in summarized rather than verbatim format. For complete contents, please refer to meeting tapes on file at the Regional Flood Control District.

MEETING NOTICES: Public Notices of this meeting were properly posted by Dorothy Davis of the Regional Flood Control District in the following locations: Boulder City City Hall, Clark County Government Center, Henderson City Hall, Las Vegas City Hall, Mesquite City Hall, North Las Vegas City Hall, Clark County Regional Flood Control District Offices and the Clark County Regional Flood Control District Worldwide Website (www.regionalflood.org) and the State of Nevada Public Notice Website (<https://notice.nv.gov/>).

MEMBERS PRESENT: Lawrence L. Brown, III, Chairman, Clark County
Debra March, Vice Chair, City of Henderson
Carolyn G. Goodman, City of Las Vegas
Chris Giunchigliani, Clark County
David Ballweg, City of Mesquite
Rodney S. Woodbury, City of Boulder City

MEMBERS ABSENT: John J. Lee, City of North Las Vegas
Dr. Lois Tarkanian, City of Las Vegas

STAFF: Steven C. Parrish, General Manager/Chief Engineer
Andrew Trelease, Assistant General Manager
Christopher Figgins, Chief Deputy District Attorney
Jeanine Pitts-Dilworth, Administrative Services Director
Erin Neff, Public Information Manager
Abigail Mayrena, Principal Civil Engineer
Brian Rowley, Principal Civil Engineer
Edward Demars, Associate Engineer
Jessica Butte, Fiscal Services Administrator
Deanna Hughes, Senior Management Analyst
Chris Russo, Management Analyst II
Beatriz Martinez, Public Information Coordinator
Cristle Ramey, Senior Office Specialist

INTERESTED PARTIES: Matt Baird, P.E., Atkins North America, Inc.

I. Call to Order

Commissioner Lawrence Brown called the meeting to order at 8:34 a.m. in the Clark County Board of County Commissioners Chambers, 500 South Grand Central Parkway, Las Vegas, Nevada.

1. Comments By the General Public

There was no response to the call for Comments By the General Public.

2. Action to approve the agenda with deletion of any items (*For possible action*)

Upon a motion by Mayor Debra March, the agenda was approved.

VOTE: 5 AYES – 0 NAYS

3. Action to approve the minutes of the September 13, 2018 meeting (*For possible action*)

Upon a motion by Commissioner Chris Giunchigliani, the minutes of the September 13, 2018 meeting were approved.

VOTE: 5 AYES – 0 NAYS

4. Discuss General Manager's Monthly Report

Mr. Parrish stated there are two projects that will complete construction in October. The first project called the Washington Avenue Storm Drain started in June 2017. It was located in the City of Las Vegas, between Martin Luther King and Rancho Drive and the bid amount was \$10,032,340.00. This project was located in a developed area and it was a potential detour for project NEON. Mr. Parrish stated coordination occurred between the City of Las Vegas and Nevada Department of Transportation (NDOT) to minimize the impact to the traveling public. Mr. Parrish continued by stating that this project was designed by Atkins North America, Inc., constructed by Tand Construction and Construction Management was provided by HDR Engineering. A lateral was constructed north in Tonopah to collect flood flows impacting a nearby school.

Mr. Parrish stated 5,200 feet of box culvert was installed in the roadway along with 2,550 feet of circular pipes of various sizes, 18 drop inlets and 21 manholes. Mr. Parrish commended Mr. Mike Janssen, Director of Public Works, City of Las Vegas and staff of the City of Las Vegas for the remarkable execution of the project.

The second project was the Katie Avenue Storm Drain, with a bid amount of \$1,370,424.00, which began in July 2018 and completed October 2018, approximately 4 months. It was a local drainage project that was connected into a regional facility located in Katie Avenue between Fort Apache and Grand Canyon. Mr. Parrish stated this project was cost shared between the Regional Flood Control District and Clark County public Works. Regional Flood Control District's cost was in the amount of \$994,017.00 and Clark County Public Works cost was in the amount of \$376,407.00.

Mr. Parrish stated following the changes made to the Nevada Revised Statutes (NRS) and the District's policies to allow a portion of funding to be utilized for local drainage projects located near a regional facility that may require improvement, the District is able to attempt to have facilities installed to correct issues that are present. Mr. Parrish continued by stating the project construction was managed and, designed by Clark County Public Works and contracted by Meadow Valley Contractors.

Mayor Carolyn Goodman asked whether the project ran on a twenty-four (24) hour schedule or a normal work day schedule, and what is the general policy regarding projects outside of or situated near a residential area. Mr. Parrish replied that in order to not cause a disruption to the nearby residential communities, construction was not performed on a twenty-four (24) hour basis. Mr. Parrish continued that although performing on a twenty-four (24) hour schedule is rare, there has been instances where night work was completed, for example the Rancho and Washington project was performed at night in order to avoid traffic congestion and did not raise the issue of public disturbance since it was in a commercial area.

Commissioner Chris Giunchigliani asked whether the box culverts are fabricated locally, to which Mr. Parrish confirmed that they are. Commissioner Chris Giunchigliani followed by extending thanks to the District on behalf of Mr. Jim McGaughey for pursuing the naming of the next Detention basin in his honor, in recognition that he contributed to the legislation that allowed for the creation of the Regional Flood Control District.

- II. *****Consent Agenda – Items #05 through #16 are considered by the Regional Flood Control District to be routine and may be acted upon in one motion. However, the Board of Directors may discuss any consent item individually if requested by a Board member or a citizen when the consent agenda is considered for approval. Items considered for approval include the staff recommendation.**
Administration

5. Action to accept the financial reports (*For possible action*)
6. Action to adopt amendments to the Ten Year Construction Program (*For possible action*)
7. Action to accept the first amendment to the final accounting reports and project closeouts for the following projects (*For possible action*):
 - a. Red Rock Channel, Naples Branch (construction) (CLA19D03)
 - b. Tropicana Wash at Swenson Street (construction) (CLA10G12)
 - c. Flamingo Diversion – Rainbow Branch (construction) (CLA27D13)
8. Action to adopt amendments to the RFCD Policies and Procedures Manual – 2018 Annual Review/Update (*For possible action*)
9. Action to approve and authorize the Chairman to sign the second amendment to the professional services agreement with Atkins North American, Inc., to prepare a Master Plan Update for the Las Vegas Valley (*For possible action*)
10. Self-Funded Group Medical and Dental Plan (*For possible action*)
 - a. Action to approve and authorize the Chairman to sign an amendment to the interlocal agreement among Clark County, Clark County Water Reclamation District, University Medical Center of Southern Nevada, Las Vegas Convention and Visitors Authority, Las Vegas Valley Water District, Clark County Regional Flood Control District, Regional Transportation Commission of Southern Nevada, Southern Nevada Health District, Henderson District Public Libraries, Mount Charleston Fire Protection District and the Las Vegas Metropolitan Police Department adopting an amended Self-Funded Group Medical and Dental Benefits Plan, effective, January 1, 2019

- b. Action to approve and authorize the Chairman to sign an amendment to the interlocal agreement among Clark County, Clark County Water Reclamation District, University Medical Center of Southern Nevada, Las Vegas Convention and Visitors Authority, Las Vegas Valley Water District, Clark County Regional Flood Control District, Regional Transportation Commission of Southern Nevada, Southern Nevada Health District, Henderson District Public Libraries, Mount Charleston Fire Protection District and the Las Vegas Metropolitan Police Department establishing new rates for the Self-Funded Group Medical and Dental Benefits Plan, effective January 1, 2019
11. Action to approve and authorize the General Manager/Chief Engineer to sign the interlocal agreement for a Revocable License for the installation of a weather station in Sandy Valley (*For possible action*)

Design and Construction

12. Action to approve the requests to reallocate funding within the interlocal contract for design for the following contracts (*For possible action*):
- a. Windmill Wash Detention Basin Expansion – Clark County
 - b. Fairgrounds Detention Basin – Clark County
13. Action to approve and authorize the Chairman to sign the supplemental interlocal contracts for design and construction to extend the project completion date for the following projects (*For possible action*):
- a. Fourteenth Supplemental – Pittman North Detention Basin and Outfall – City of Henderson
 - b. Fourth Supplemental – Pittman, Horizon Ridge Detention Basin – City of Henderson
 - c. Second Supplemental – Horizon Ridge Detention Basin – City of Henderson
14. Gowan North – El Capitan Branch, Lone Mountain to Ann Road – City of Las Vegas
- a. Receive a report on the award of bid for construction
 - b. Action to approve change order no. 1 for construction (*For possible action*)

15. Action to approve and authorize the Chairman to sign the first supplemental interlocal contract for construction to increase funding for SR 163 at Casino Drive – Clark County (*For possible action*)
16. Action to approve and authorize the Chairman to sign the second supplemental interlocal contract for design to increase funding for Hollywood System, Centennial Parkway to Speedway #2 Detention Basin – City of North Las Vegas (*For possible action*)

Upon a motion by Mayor Debra March, the consent agenda was approved.

VOTE: 5 AYES – 0 NAYS

****** End of Consent Agenda***

III. Discussion Items

Design and Construction

17. Flamingo – Boulder Highway North – Boulder Hwy., Sahara to Charleston – City of Las Vegas (*For possible action*)
 - a. Action to accept the project presentation

Mr. Matt Baird, P.E., Atkins North America, Inc, made the presentation.

Mayor Carolyn Goodman asked whether the entire cost of the waterline was paid for by the Southern Nevada Water Authority. Mr. Matt Baird, P.E, Atkins North America Inc., replied the cost of the waterline is paid for by the Las Vegas Valley Water District. Commissioner Chris Giunchigliani expressed her gratitude to the City of Las Vegas for accelerating the development of the project. Commissioner Giunchigliani continued by stating constituents in the mobile park community located in the area of Mohave and Boulder Highway, were affected by an overflow of water throughout the Park that was linked to an old culvert that was not properly secured and this will be resolved by the completion of this project.

Commissioner Giunchigliani asked whether the design and construction of this project would negatively affect the survey of the Boulder Highway conducted by the Nevada Department of Transportation (NDOT) and

Regional Transportation Commission (RTC). Mr. Baird and Mr. Parrish confirmed the Nevada Department of Transportation (NDOT) and Regional Transportation Commission (RTC) have coordinated their design into this project.

Commissioner Giunchigliani inquired what is the general lead time for completion of the design phase of a project. Mr. Parrish replied it generally takes between eight (8) months to one (1) year and would depend on the project and requirements for example, permits required.

Mayor Debra March asked whether the District coordinated with the various entities and agencies during construction, to accommodate the implementation and development of smart cities in the future, for example the City of Las Vegas have begun using driverless vehicles which require and utilize grounded cabling. Mr. Parrish replied the District does not, however, the Regional Flood Control District designed all facilities to accommodate increase in population and development in the area. Therefore, the facilities are usually developed oversize with the assumption the area will be developed in the future.

Mayor March recommended the District to consider coordinating with agencies such as the Regional Transportation Commission (RTC) to determine if they will be interested in imbedding redundant cabling during project construction to accommodate future technology. Mr. Parrish responded that he would be open to imbedding empty conduits into the culverts in order to avoid future excavation of the box culverts. Mr. Parrish stated the District have not investigated longitudinal conduits but generally imbed sleeves for utilities under the box culvert and is open to exploring the notion.

***** Mayor Rodney S. Woodbury arrived at 8:44 a.m.**

Staff recommends accepting the project presentation.

Commissioner Chris Giunchigliani moved to accept the project presentation.

VOTE: 6 AYES – 0 NAYS

- b. Action to approve and authorize the Chairman to sign the interlocal contract for construction

Mr. Parrish stated that this is an interlocal contract in the amount of \$26,115,786.00 for construction. There are sufficient funds available for this project.

Staff recommends approval.

Mayor Debra March moved to follow staff recommendation.

VOTE: 6 AYES – 0 NAYS

Administration

18. Action to adopt the Fiscal Year 2017-18 Annual Report and Mini Summary Report and authorize the General Manager to provide copies to the public at no cost (***For possible action***)

Mr. Parrish stated per Nevada Revised Statutes (NRS), it is required to provide an Annual Report to the public at no cost. In an effort to stay green and environmentally sensitive, the District has produced a paper copy of the summary report, made up of eight (8) pages and the full report is included on the USB drive attached to the mini report.

Commissioner Chris Giunchigliani inquired whether the District accumulated statistics on the impact of Regional Flood Control District's Media Campaign on the public. Mr. Parrish replied the District conducts a survey with residents every other year. The next campaign is scheduled for the year 2019.

Staff recommends approval.

Commissioner Chris Giunchigliani moved to follow staff recommendation.

VOTE: 6 AYES – 0 NAYS

19. **Comments By the General Public**

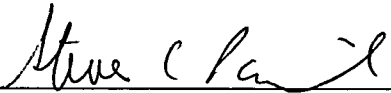
There was no response to the call for Comments By the General Public.

Clark County Regional Flood Control District
Board of Directors Minutes
October 11, 2018
Page 9

ADJOURNMENT

The meeting adjourned at 8:51 a.m.

Respectfully submitted,



Steven C. Parrish, P.E.
General Manager/Chief Engineer

Lawrence L. Brown, III
Chairman

Attest _____, 2018

Sherry Allen
Board Secretary

/cr

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

GENERAL MANAGER'S MONTHLY REPORT

RECOMMENDATION SUMMARY

STAFF:

Receive the report.

**RFCD AGENDA
ITEM #04
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT

AGENDA ITEM

SUBJECT:

GENERAL MANAGER'S MONTHLY REPORT

PETITIONER:

STEVEN C. PARRISH, P.E., GENERAL MANAGER/CHIEF ENGINEER

RECOMMENDATION OF PETITIONER:

DISCUSS GENERAL MANAGER'S MONTHLY REPORT

FISCAL IMPACT:

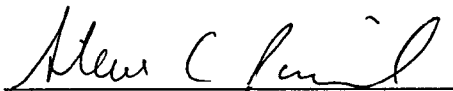
None.

BACKGROUND:

Discuss the General Manager's monthly report:

- Construction project progress

Respectfully submitted,



Steven C. Parrish, P.E.
General Manager/Chief Engineer

RFCD AGENDA
ITEM #04
Date: 11/08/18

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

FINANCIAL REPORTS – SEPTEMBER 2018

RECOMMENDATION SUMMARY

STAFF: Accept the reports.

TECHNICAL ADVISORY: Accept the reports.

CITIZENS ADVISORY: Accept the reports.

**RFCD AGENDA
ITEM #05
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT

AGENDA ITEM

SUBJECT:
FINANCIAL REPORTS – SEPTEMBER 2018
PETITIONER:
STEVEN C. PARRISH, P.E., GENERAL MANAGER/CHIEF ENGINEER
RECOMMENDATION OF PETITIONER:
ACCEPT THE REPORTS (FOR POSSIBLE ACTION)

FISCAL IMPACT: None

BACKGROUND: The financial reports for September 2018, are submitted for your review:

<u>Section</u>	<u>Description</u>	<u>Page(s)</u>
A - Fund 2860	Fund Balance Report	1
	Appropriation Balance Report – FY 2017-18	2
	Appropriation Balance Report – FY 2018-19	3
	Sales Tax Revenue Report – FY 2017-18	4
	Sales Tax Revenue Report – FY 2018-19	5
	Monthly Expenditure Summary Report	6
B - Fund 2870	Fund Balance Report	7
	Maintenance Work Program Monthly Expenditures	8-11
	Maintenance Work Program Status Report – FY 2018	12-13
	Maintenance Work Program Status Report – FY 2019	14-15
C - Fund 3300	Fund Balance Report	16
D - Fund 4430	Fund Balance Report	17
	Monthly Expenditure Report	18-19
E - Fund 4440	Fund Balance Report	20
	Monthly Expenditure Report	21


TAC AGENDA ITEM # DATE: 10/25/2018	RFCD AGENDA ITEM # 05 DATE: 11/08/2018
CAC AGENDA ITEM # DATE: 10/29/2018	

F - Summary

- Pay-As-You Go – Current Project Expense Summary..... 22-50
- Bond Funded – Current Project Expense Summary 51-54
- Capital Improvement Program – Open Projects Summary55
- Pay-As-You Go CIP – Cumulative Reporting 56-68
- Bond Funded CIP – Cumulative Reporting..... 69-73
- FY 2018-19 Projects Funded Summary 74-75
- FY 2018-19 Estimated Funding Schedule.....76

G – State Quarterly Economic Condition Report (Per NRS 354.6015) 77-78

Respectfully submitted,


 Jeanine Pitts-Dilworth
 Administrative Services Director

TAC AGENDA ITEM # DATE: 10/25/2018	RFCD AGENDA ITEM # 05 DATE: 11/08/2018
CAC AGENDA ITEM # DATE: 10/29/2018	

REGIONAL FLOOD CONTROL DISTRICT
 FUND 2860 - OPERATING FUND
 FUND BALANCE REPORT
 SEPTEMBER 2018

BEGINNING CASH BALANCE:	13,542,829.20	
Accruals/Adjustments	<u>(3,166.82)</u>	
	TOTAL BEGINNING BALANCE	\$13,539,662.38
REVENUES:		
Sales Tax Revenue	8,812,912.62	
Interest Earnings	8,368.76	
Fund 4430 - Transfer In Interest Earnings	61,538.46	
Build America Bonds Rebate	1,366,162.90	
Sale of Materials	0.00	
Miscellaneous Other Revenue	0.00	
Petty Cash Reimbursements	0.00	
Miscellaneous Accruals/Adjustments	<u>16,844.42</u>	
	TOTAL REVENUES	\$10,265,827.16
EXPENDITURES:		
Salaries & Benefits	(324,686.86)	
Services & Supplies	(62,342.79)	
Professional Services	(201,625.31)	
Capital Expenditures	0.00	
Fund 2870 - Transfer Out Maintenance Work Program	(1,667,400.00)	
Fund 3300 - Transfer Out Debt Service	(3,302,766.04)	
Fund 4430 - Transfer Out Budgeted Transfers	(8,920,000.00)	
Accruals/Adjustments		
Accounts Payable	45,522.80	
Miscellaneous Accruals/Adjustments	<u>0.00</u>	
	TOTAL EXPENSES	<u>(\$14,433,298.20)</u>
ENDING CASH BALANCE:		<u><u>\$9,372,191.34</u></u>

REGIONAL FLOOD CONTROL DISTRICT
 FUND 2860 - OPERATING FUND
 APPROPRIATION BALANCE REPORT
 FISCAL YEAR 2017-18

REVENUES/FINANCING SOURCES

	BUDGET	ACTUAL	ENCUMBRANCE/ ILC	UNREALIZED	% UNREALIZED
Revenues	\$ 103,754,635.00	\$ 106,654,825.67	N/A	\$ (2,900,190.67)	-3%
Other Sources	\$ 635,262.00	\$ 635,262.00	N/A	\$ -	0%
TOTAL	\$ 104,389,897.00	\$ 107,290,087.67	N/A	\$ (2,900,190.67)	-3%

EXPENDITURES/TRANSFERS

	BUDGET	ACTUAL	ENCUMBRANCE/ ILC	AVAILABLE	% AVAILABLE
Expenditures	\$ 8,949,078.00	\$ 7,059,911.05	\$ -	\$ 1,889,166.95	21%
Transfers Out					
Debt Service	\$ 39,651,400.00	\$ 39,651,399.32	\$ -	\$ 0.68	0%
MWP	\$ 8,000,000.00	\$ 8,000,000.00	\$ -	\$ -	0%
CIP (1)	\$ 55,000,000.00	\$ 55,000,000.00	\$ -	\$ -	0%
TOTAL	\$ 111,600,478.00	\$ 109,711,310.37	\$ -	\$ 1,889,167.63	2%

Notes:

(1) Includes Local Drainage program.

REGIONAL FLOOD CONTROL DISTRICT
 FUND 2860 - OPERATING FUND
 APPROPRIATION BALANCE REPORT
 FISCAL YEAR 2018-19

REVENUES/FINANCING SOURCES

	BUDGET	ACTUAL	ENCUMBRANCE/ ILC	UNREALIZED	% UNREALIZED
Revenues	\$ 108,309,352.00	\$ 10,311,417.78	N/A	\$ 97,997,934.22	90.48%
Other Sources	\$ 800,000.00	\$ 184,615.40	N/A	\$ 615,384.60	77%
TOTAL	\$ 109,109,352.00	\$ 10,496,033.18	N/A	\$ 98,613,318.82	90%

EXPENDITURES/TRANSFERS

	BUDGET	ACTUAL	ENCUMBRANCE/ ILC	AVAILABLE	% AVAILABLE
Expenditures	\$ 9,348,604.00	\$ 1,482,400.48	\$ 1,936,195.02	\$ 5,930,008.50	63%
Transfers Out					
Debt Service	\$ 39,270,425.00	\$ 13,211,064.16	\$ -	\$ 26,059,360.84	66%
MWP	\$ 12,000,000.00	\$ 1,000,000.00	\$ -	\$ 11,000,000.00	92%
CIP (1)	\$ 52,000,000.00	\$ 4,300,000.00	\$ -	\$ 47,700,000.00	92%
TOTAL	\$ 112,619,029.00	\$ 19,993,464.64	\$ 1,936,195.02	\$ 90,689,369.34	81%

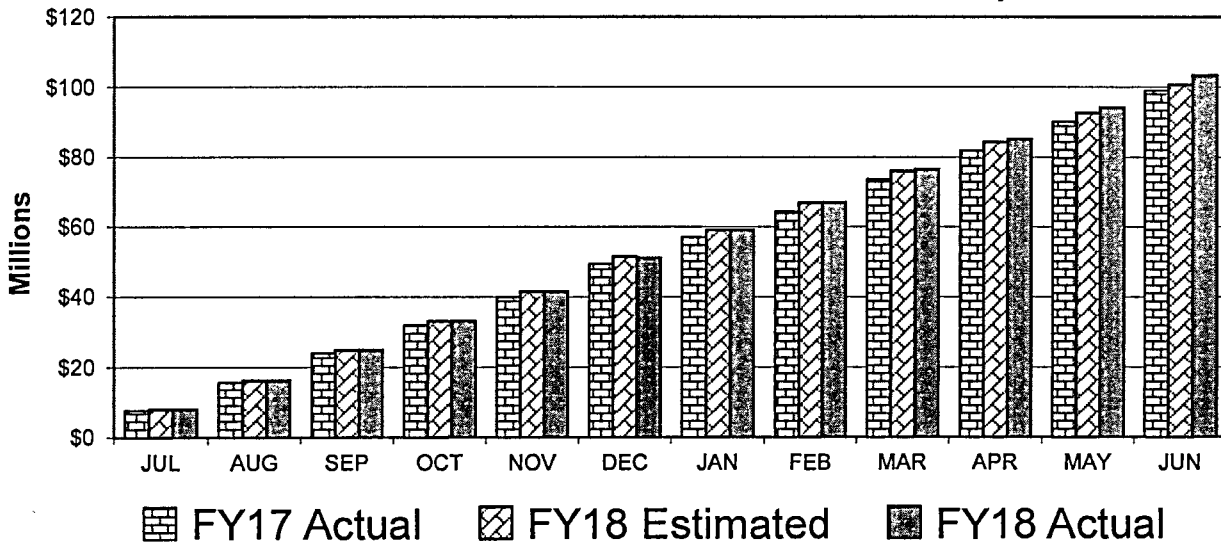
Notes:

(1) Includes Local Drainage program.

SALES TAX REVENUE REPORT
 REGIONAL FLOOD CONTROL DISTRICT
 FISCAL YEAR 2017-18
 MODIFIED ACCRUAL BASIS

MONTH SALES TAX COLLECTED BY MERCHANT	1/4 CENT SALES TAX ESTIMATE (as approved April 13, 2017)	ACTUAL SALES TAX REVENUES	DIFFERENCE OVER/(UNDER) ESTIMATE	PERCENT +/- FROM ESTIMATE
JULY	8,079,345.77	8,094,384.88	15,039.11	0.19%
AUGUST	8,203,982.32	8,255,778.90	51,796.58	0.63%
SEPTEMBER	8,557,326.01	8,581,751.61	24,425.60	0.29%
OCTOBER	8,172,375.00	8,237,649.83	65,274.83	0.80%
NOVEMBER	8,471,775.21	8,327,302.09	(144,473.12)	-1.71%
DECEMBER	9,983,768.26	9,577,458.25	(406,310.01)	-4.07%
JANUARY	7,603,708.26	8,094,419.86	490,711.60	6.45%
FEBRUARY	7,801,049.35	7,798,723.71	(2,325.64)	-0.03%
MARCH	9,118,685.91	9,541,162.04	422,476.13	4.63%
APRIL	8,233,361.78	8,679,967.10	446,605.32	5.42%
MAY	8,435,509.85	8,983,388.24	547,878.39	6.49%
JUNE	8,039,112.28	9,256,067.76	1,216,955.48	15.14%
TOTAL:	\$ 100,700,000.00	\$ 103,428,054.27	\$ 2,728,054.27	2.71%

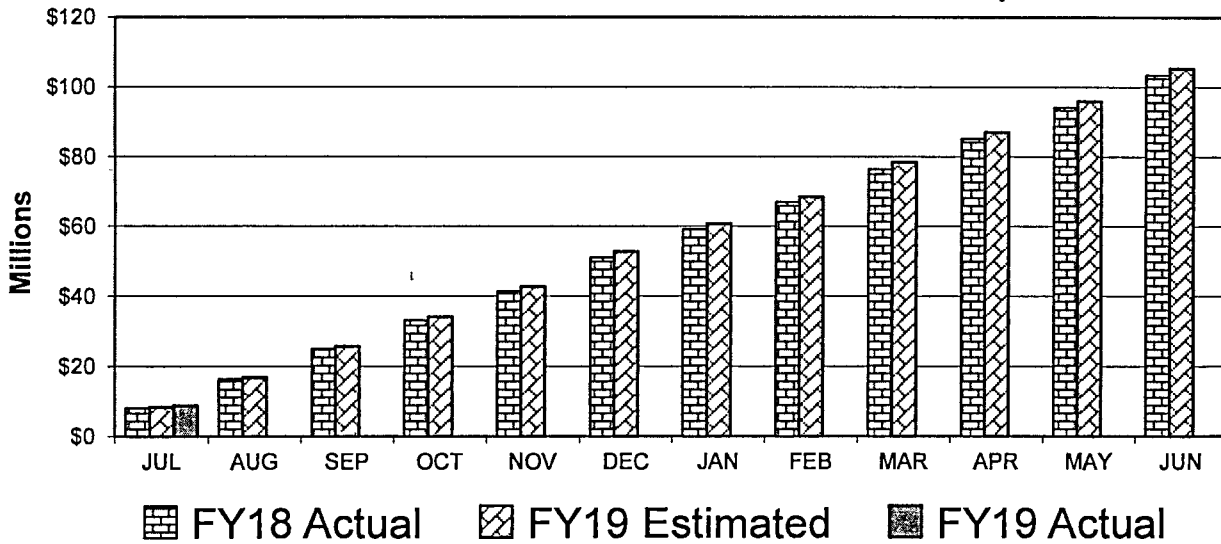
Estimated vs Actual Cumulative Sales Tax Receipts



SALES TAX REVENUE REPORT
 REGIONAL FLOOD CONTROL DISTRICT
 FISCAL YEAR 2018-19
 MODIFIED ACCRUAL BASIS

MONTH SALES TAX COLLECTED BY MERCHANT	1/4 CENT SALES TAX ESTIMATE (as approved April 12, 2018)	ACTUAL SALES TAX REVENUES	DIFFERENCE OVER/(UNDER) ESTIMATE	PERCENT +/- FROM ESTIMATE
JULY	8,337,216.43	8,812,912.62	475,696.19	5.71%
AUGUST	8,503,452.27			
SEPTEMBER	8,856,367.66			
OCTOBER	8,501,254.62			
NOVEMBER	8,610,430.36			
DECEMBER	9,901,526.75			
JANUARY	8,053,625.31			
FEBRUARY	7,802,944.08			
MARCH	9,978,678.81			
APRIL	8,474,253.85			
MAY	8,895,566.19			
JUNE	9,384,683.67			
TOTAL:	\$ 105,300,000.00	\$ 8,812,912.62	\$ 475,696.19	5.71%

Estimated vs Actual Cumulative Sales Tax Receipts



Schedule of Monthly Expenditures - Summary
Fund 2860 - Operating Fund
9/1/2018 to 9/30/2018

<u>Fiscal Year</u>	<u>Account #</u>	<u>Account Name</u>	<u>Amount</u>
2019	61*/62*	Salaries and Benefits	324,686.86
	630000	Other Professional Services	196,625.31
	636000	Pro Svcs-Audit	5,000.00
	640310	R & M-Facilities	14,874.27
	640320	R & M-Equipment	3,590.00
	640340	R & M-Vehicles	1,168.48
	644050	Photography Services	4,275.00
	645000	Other Insurance	194.91
	646100	Telephone-Local	214.38
	646120	Cell Phones/Beepers	346.96
	648100	Printing/Reproduction	2,703.50
	649100	Airfare	791.92
	649200	Lodging	1,042.79
	649300	Auto	23.00
	649400	Meals	384.00
	649510	Travel/Training	2,560.00
	649600	Mileage	91.88
	663000	Operating Supplies	25,338.60
	663400	Office Supplies	582.34
	663500	Wearing Apparel	50.16
	670100	Electricity	2,775.07
	670500	Disposal	68.69
	679220	Software Licenses	407.88
	679300	Dues	265.00
	679310	Subscriptions	44.95
	679600	Postage	549.01
		Fiscal Year Total	\$588,654.96
		Grand Total	\$588,654.96

REGIONAL FLOOD CONTROL DISTRICT
 FUND 2870 - FACILITIES MAINTENANCE FUND
 FUND BALANCE REPORT
 SEPTEMBER 2018

BEGINNING CASH BALANCE:	5,715,031.35	
Accruals/Adjustments	<u>0.00</u>	
TOTAL BEGINNING CASH BALANCE:		\$5,715,031.35
REVENUES:		
Interest Income	7,051.84	
Fund 2860 - Transfer In Maintenance Work Program	1,667,400.00	
Miscellaneous Other Revenue/Adjustments	<u>5,106.26</u>	
TOTAL MONTHLY REVENUES		\$1,679,558.10
EXPENDITURES:		
Services & Supplies	0.00	
Maintenance Work Program Expenditures	(361,731.19)	
Accruals/Adjustments		
Miscellaneous Accruals/Adjustments	(5,106.26)	
Contract Retention Payable	0.00	
Contract Retention Interest Payable	0.00	
Accounts Payable	<u>0.00</u>	
TOTAL MONTHLY EXPENSES		<u>(\$366,837.45)</u>
ENDING CASH BALANCE:		<u><u>\$7,027,752.00</u></u>

**Regional Flood Control District
 Monthly Expenditures
 Maintenance Work Program
 9/1/2018 to 9/30/2018**

Fiscal Year - 2018

<u>Vendor</u>	<u>Facility</u>	<u>Invoice No.</u>	<u>Inv. Date</u>	<u>P.O. Number</u>	<u>Date Paid</u>	<u>Amount</u>
REGIONAL FLOOD CONTROL	RF.NL01	1118001588	06/30/2018	none	09/14/2018	\$273.47
REGIONAL FLOOD CONTROL	RF.NL02	1118001588	06/30/2018	none	09/14/2018	\$273.47
REGIONAL FLOOD CONTROL	RF.NL03	1118001588	06/30/2018	none	09/14/2018	\$273.47
REGIONAL FLOOD CONTROL	RF.NL06	1118001588	06/30/2018	none	09/14/2018	\$55,373.00
REGIONAL FLOOD CONTROL	RF.NL11	1118001588	06/30/2018	none	09/14/2018	\$273.47
REGIONAL FLOOD CONTROL	RF.NL13	1118001588	06/30/2018	none	09/14/2018	\$273.46
Total Expenditures						\$56,740.34

Fiscal Year -2019

<u>Vendor</u>	<u>Facility</u>	<u>Invoice No.</u>	<u>Inv. Date</u>	<u>P.O. Number</u>	<u>Date Paid</u>	<u>Amount</u>
CITY OF HENDERSON	RF.HN65	MSC5029959	08/30/2018	4500286838	09/12/2018	\$2,067.75
CITY OF HENDERSON	RF.HN65	MSC5029960	08/30/2018	4500286838	09/12/2018	\$114.70
CITY OF HENDERSON	RF.HN65	MSC5029960	08/30/2018	4500286838	09/12/2018	\$933.75
CITY OF HENDERSON	RF.HN65	MSC5029960	08/30/2018	4500286838	09/12/2018	\$798.46
CITY OF HENDERSON	RF.HN65	MSC5030074	09/20/2018	4500286838	09/28/2018	\$3,877.97
CITY OF HENDERSON	RF.HN65	MSC5030075	09/20/2018	4500286838	09/28/2018	\$695.92
CITY OF HENDERSON	RF.HN65	MSC5030075	09/20/2018	4500286838	09/28/2018	\$321.20
CITY OF HENDERSON	RF.HN65	MSC5030075	09/20/2018	4500286838	09/28/2018	\$685.23
CITY OF HENDERSON	RF.HN65	MSC5030075	09/20/2018	4500286838	09/28/2018	\$723.51
CITY OF HENDERSON	RF.HN66	MSC5029959	08/30/2018	4500286838	09/12/2018	\$6,187.59
CITY OF HENDERSON	RF.HN66	MSC5029960	08/30/2018	4500286838	09/12/2018	\$514.74
CITY OF HENDERSON	RF.HN66	MSC5029960	08/30/2018	4500286838	09/12/2018	\$2,003.24
CITY OF HENDERSON	RF.HN66	MSC5029960	08/30/2018	4500286838	09/12/2018	\$279.10
CITY OF HENDERSON	RF.HN66	MSC5029960	08/30/2018	4500286838	09/12/2018	\$4,347.74
CITY OF HENDERSON	RF.HN66	MSC5029960	08/30/2018	4500286838	09/12/2018	\$2,294.03
CITY OF HENDERSON	RF.HN66	MSC5030074	09/20/2018	4500286838	09/28/2018	\$4,183.75
CITY OF HENDERSON	RF.HN66	MSC5030075	09/20/2018	4500286838	09/28/2018	\$535.33
CITY OF HENDERSON	RF.HN66	MSC5030075	09/20/2018	4500286838	09/28/2018	\$160.60
CITY OF HENDERSON	RF.HN66	MSC5030075	09/20/2018	4500286838	09/28/2018	\$667.21
CITY OF HENDERSON	RF.HN66	MSC5030075	09/20/2018	4500286838	09/28/2018	\$148.31
CITY OF HENDERSON	RF.HN67	MSC5029959	08/30/2018	4500286838	09/12/2018	\$1,426.03
CITY OF HENDERSON	RF.HN67	MSC5029960	08/30/2018	4500286838	09/12/2018	\$57.58
CITY OF HENDERSON	RF.HN67	MSC5029960	08/30/2018	4500286838	09/12/2018	\$1,986.29
CITY OF HENDERSON	RF.HN67	MSC5029960	08/30/2018	4500286838	09/12/2018	\$5,385.00
CITY OF HENDERSON	RF.HN67	MSC5029960	08/30/2018	4500286838	09/12/2018	\$495.74
CITY OF HENDERSON	RF.HN67	MSC5030074	09/20/2018	4500286838	09/28/2018	\$1,795.01
CITY OF HENDERSON	RF.HN67	MSC5030075	09/20/2018	4500286838	09/28/2018	\$53.52

**Regional Flood Control District
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CITY OF HENDERSON	RF.HN68	MSC5029959	08/30/2018	4500286838	09/12/2018	\$968.80
CITY OF HENDERSON	RF.HN68	MSC5029960	08/30/2018	4500286838	09/12/2018	\$673.71
CITY OF HENDERSON	RF.HN68	MSC5030074	09/20/2018	4500286838	09/28/2018	\$1,006.41
CITY OF HENDERSON	RF.HN68	MSC5030075	09/20/2018	4500286838	09/28/2018	\$231.11
CITY OF HENDERSON	RF.HN69	MSC5029959	08/30/2018	4500286838	09/12/2018	\$1,217.44
CITY OF HENDERSON	RF.HN69	MSC5029960	08/30/2018	4500286838	09/12/2018	\$115.16
CITY OF HENDERSON	RF.HN69	MSC5029960	08/30/2018	4500286838	09/12/2018	\$115.16
CITY OF HENDERSON	RF.HN69	MSC5029960	08/30/2018	4500286838	09/12/2018	\$529.64
CITY OF HENDERSON	RF.HN69	MSC5029960	08/30/2018	4500286838	09/12/2018	\$101.12
CITY OF HENDERSON	RF.HN69	MSC5029960	08/30/2018	4500286838	09/12/2018	\$3,450.98
CITY OF HENDERSON	RF.HN69	MSC5029960	08/30/2018	4500286838	09/12/2018	\$1,646.20
CITY OF HENDERSON	RF.HN69	MSC5029960	08/30/2018	4500286838	09/12/2018	\$1,836.09
CITY OF HENDERSON	RF.HN69	MSC5030074	09/20/2018	4500286838	09/28/2018	\$2,260.21
CITY OF HENDERSON	RF.HN69	MSC5030075	09/20/2018	4500286838	09/28/2018	\$267.67
CITY OF HENDERSON	RF.HN69	MSC5030075	09/20/2018	4500286838	09/28/2018	\$10,147.31
CITY OF HENDERSON	RF.HN69	MSC5030075	09/20/2018	4500286838	09/28/2018	\$9,559.37
CITY OF HENDERSON	RF.HN69	MSC5030075	09/20/2018	4500286838	09/28/2018	\$2,230.48
CITY OF HENDERSON	RF.HN69	MSC5030075	09/20/2018	4500286838	09/28/2018	\$734.48
CITY OF HENDERSON	RF.HN69	MSC5030075	09/20/2018	4500286838	09/28/2018	\$9,610.41
CITY OF HENDERSON	RF.HN69	MSC5030075	09/20/2018	4500286838	09/28/2018	\$439.87
CITY OF HENDERSON	RF.HN70	MSC5029959	08/30/2018	4500286838	09/12/2018	\$1,050.02
CITY OF HENDERSON	RF.HN70	MSC5029960	08/30/2018	4500286838	09/12/2018	\$563.13
CITY OF HENDERSON	RF.HN70	MSC5030074	09/20/2018	4500286838	09/28/2018	\$828.49
CITY OF HENDERSON	RF.HN71	MSC5029959	08/30/2018	4500286838	09/12/2018	\$978.84
CITY OF HENDERSON	RF.HN71	MSC5029960	08/30/2018	4500286838	09/12/2018	\$115.15
CITY OF HENDERSON	RF.HN71	MSC5029960	08/30/2018	4500286838	09/12/2018	\$250.31
CITY OF HENDERSON	RF.HN71	MSC5030074	09/20/2018	4500286838	09/28/2018	\$828.49
CITY OF HENDERSON	RF.HN72	MSC5029959	08/30/2018	4500286838	09/12/2018	\$826.44
CITY OF HENDERSON	RF.HN72	MSC5029960	08/30/2018	4500286838	09/12/2018	\$172.76
CITY OF HENDERSON	RF.HN72	MSC5029960	08/30/2018	4500286838	09/12/2018	\$254.85
CITY OF HENDERSON	RF.HN72	MSC5029960	08/30/2018	4500286838	09/12/2018	\$182.01
CITY OF HENDERSON	RF.HN72	MSC5030074	09/20/2018	4500286838	09/28/2018	\$828.49
CITY OF HENDERSON	RF.HN73	MSC5029959	08/30/2018	4500286838	09/12/2018	\$719.66
CITY OF HENDERSON	RF.HN73	MSC5029960	08/30/2018	4500286838	09/12/2018	\$129.69
CITY OF HENDERSON	RF.HN73	MSC5030074	09/20/2018	4500286838	09/28/2018	\$828.49
CITY OF LAS VEGAS	RF.LV51	264317	08/13/2018	4500289796	09/27/2018	\$2,996.30
CITY OF LAS VEGAS	RF.LV51	269917	09/17/2018	4500289796	09/27/2018	\$94.96

**Regional Flood Control District
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<u>Vendor</u>	<u>Facility</u>	<u>Invoice No.</u>	<u>Inv. Date</u>	<u>P.O. Number</u>	<u>Date Paid</u>	<u>Amount</u>
CITY OF LAS VEGAS	RF.LV51	269917	09/17/2018	4500289796	09/27/2018	\$9,987.07
CITY OF LAS VEGAS	RF.LV52	264317	08/13/2018	4500289796	09/27/2018	\$2,947.81
CITY OF LAS VEGAS	RF.LV52	269917	09/17/2018	4500289796	09/27/2018	\$2,905.84
CITY OF LAS VEGAS	RF.LV53	264317	08/13/2018	4500289796	09/27/2018	\$2,947.81
CITY OF LAS VEGAS	RF.LV53	269917	09/17/2018	4500289796	09/27/2018	\$2,711.88
CITY OF LAS VEGAS	RF.LV54	264317	08/13/2018	4500289796	09/27/2018	\$482.00
CITY OF LAS VEGAS	RF.LV54	264317	08/13/2018	4500289796	09/27/2018	\$3,768.08
CITY OF LAS VEGAS	RF.LV54	269917	09/17/2018	4500289796	09/27/2018	\$889.50
CITY OF LAS VEGAS	RF.LV54	269917	09/17/2018	4500289796	09/27/2018	\$4,265.35
CITY OF LAS VEGAS	RF.LV55	264317	08/13/2018	4500289796	09/27/2018	\$494.50
CITY OF LAS VEGAS	RF.LV55	264317	08/13/2018	4500289796	09/27/2018	\$1,239.73
CITY OF LAS VEGAS	RF.LV55	269917	09/17/2018	4500289796	09/27/2018	\$678.91
CITY OF LAS VEGAS	RF.LV56	264317	08/13/2018	4500289796	09/27/2018	\$137.14
CITY OF LAS VEGAS	RF.LV56	264317	08/13/2018	4500289796	09/27/2018	\$1,430.00
CITY OF LAS VEGAS	RF.LV56	264317	08/13/2018	4500289796	09/27/2018	\$290.97
CITY OF LAS VEGAS	RF.LV57	264317	08/13/2018	4500289796	09/27/2018	\$4,964.98
CITY OF LAS VEGAS	RF.LV57	269917	09/17/2018	4500289796	09/27/2018	\$1,318.80
CITY OF LAS VEGAS	RF.LV57	269917	09/17/2018	4500289796	09/27/2018	\$3,902.27
CITY OF NORTH LAS VEGAS	RF.NL01	352726	06/30/2018	none	09/17/2018	\$273.47
CITY OF NORTH LAS VEGAS	RF.NL01	352746	08/30/2018	4500286117	09/07/2018	\$351.60
CITY OF NORTH LAS VEGAS	RF.NL02	352726	06/30/2018	none	09/17/2018	\$273.47
CITY OF NORTH LAS VEGAS	RF.NL02	352746	08/30/2018	4500286117	09/07/2018	\$1,385.10
CITY OF NORTH LAS VEGAS	RF.NL03	352726	06/30/2018	none	09/17/2018	\$273.47
CITY OF NORTH LAS VEGAS	RF.NL03	352746	08/30/2018	4500286117	09/07/2018	\$8,585.32
CITY OF NORTH LAS VEGAS	RF.NL06	352726	06/30/2018	none	09/17/2018	\$55,373.00
CITY OF NORTH LAS VEGAS	RF.NL06	352746	08/30/2018	4500286117	09/07/2018	\$1,602.27
CITY OF NORTH LAS VEGAS	RF.NL06	352746	08/30/2018	4500286117	09/07/2018	\$87,323.26
CITY OF NORTH LAS VEGAS	RF.NL06	352746	08/30/2018	4500286117	09/07/2018	\$903.68
CITY OF NORTH LAS VEGAS	RF.NL07	352746	08/30/2018	4500286117	09/07/2018	\$7,026.17
CITY OF NORTH LAS VEGAS	RF.NL11	352726	06/30/2018	none	09/17/2018	\$273.47
CITY OF NORTH LAS VEGAS	RF.NL11	352746	08/30/2018	4500286117	09/07/2018	\$619.03
CITY OF NORTH LAS VEGAS	RF.NL13	352726	06/30/2018	none	09/17/2018	\$273.46
CITY OF NORTH LAS VEGAS	RF.NL13	352746	08/30/2018	4500286117	09/07/2018	\$4,014.46
CITY OF NORTH LAS VEGAS	RF.NL13	352746	08/30/2018	4500286117	09/07/2018	\$1,478.70
CITY OF NORTH LAS VEGAS	RF.NL14	352746	08/30/2018	4500286117	09/07/2018	\$296.12
CITY OF NORTH LAS VEGAS	RF.NL16	352746	08/30/2018	4500286117	09/07/2018	\$1,987.83
CITY OF NORTH LAS VEGAS	RF.NL16	352746	08/30/2018	4500286117	09/07/2018	\$2,019.10

**Regional Flood Control District
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<u>Vendor</u>	<u>Facility</u>	<u>Invoice No.</u>	<u>Inv. Date</u>	<u>P.O. Number</u>	<u>Date Paid</u>	<u>Amount</u>
CITY OF NORTH LAS VEGAS	RF.NL18	352746	08/30/2018	4500286117	09/07/2018	\$12,224.41
IMPACT SAND & GRAVEL INC	RF.HN69	545203	08/15/2018	4500289208	09/26/2018	\$135.00
IMPACT SAND & GRAVEL INC	RF.HN69	545306	08/16/2018	4500289208	09/26/2018	\$450.00
IMPACT SAND & GRAVEL INC	RF.HN69	545717	08/20/2018	4500289208	09/26/2018	\$450.00
L R NELSON CONSULTING ENGINEERS	RF.HN65	5-010B	08/06/2018	4500286848	09/05/2018	\$2,592.00
PUBLIC WORKS/CC TREAS	RF.CC01	4019000032	09/30/2018	none	09/30/2018	\$10,600.00
PUBLIC WORKS/CC TREAS	RF.CC02	4019000033	09/30/2018	none	09/30/2018	\$850.00
PUBLIC WORKS/CC TREAS	RF.CC03	4019000034	09/30/2018	none	09/30/2018	\$3,289.00
PUBLIC WORKS/CC TREAS	RF.CC05	4019000035	09/30/2018	none	09/30/2018	\$3,266.16
PUBLIC WORKS/CC TREAS	RF.CC05	4019000036	09/30/2018	none	09/30/2018	\$5,106.26
PUBLIC WORKS/CC TREAS	RF.CC05	4019000042	09/30/2018	none	09/30/2018	(\$5,106.26)
PUBLIC WORKS/CC TREAS	RF.CC06	4019000037	09/30/2018	none	09/30/2018	\$3,650.00
PUBLIC WORKS/CC TREAS	RF.CC09	4019000038	09/30/2018	none	09/30/2018	\$450.00
PUBLIC WORKS/CC TREAS	RF.CC16	4019000039	09/30/2018	none	09/30/2018	\$850.00
PUBLIC WORKS/CC TREAS	RF.CC19	4019000040	09/30/2018	none	09/30/2018	\$850.00
PUBLIC WORKS/CC TREAS	RF.CC21	4019000041	09/30/2018	none	09/30/2018	\$850.00
REGIONAL FLOOD CONTROL	RF.NL01	1119000404	09/14/2018	none	09/14/2018	(\$273.47)
REGIONAL FLOOD CONTROL	RF.NL02	1119000404	09/14/2018	none	09/14/2018	(\$273.47)
REGIONAL FLOOD CONTROL	RF.NL03	1119000404	09/14/2018	none	09/14/2018	(\$273.47)
REGIONAL FLOOD CONTROL	RF.NL06	1119000404	09/14/2018	none	09/14/2018	(\$55,373.00)
REGIONAL FLOOD CONTROL	RF.NL11	1119000404	09/14/2018	none	09/14/2018	(\$273.47)
REGIONAL FLOOD CONTROL	RF.NL13	1119000404	09/14/2018	none	09/14/2018	(\$273.46)
Total Expenditures						\$304,990.85
Grand Total						\$361,731.19

Regional Flood Control District

Maintenance Work Program Status Report - Fiscal Year 2018

Boulder City

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.BC01	Hemenway Watershed	\$150,000.00	\$135,467.38	\$14,532.62
RF.BC02	Georgia/Buchanan Watershed	\$87,350.00	\$48,022.28	\$39,327.72
RF.BC03	North Railroad Watershed	\$36,650.00	\$8,495.81	\$28,154.19
RF.BC04	West Airport Watershed	\$26,000.00	\$17,584.63	\$8,415.37
		<u>\$300,000.00</u>	<u>\$209,570.10</u>	<u>\$90,429.90</u>

Clark County

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.CC01	Flamingo Wash	\$1,167,200.00	\$688,012.00	\$479,188.00
RF.CC02	Las Vegas Wash	\$111,500.00	\$29,874.22	\$81,625.78
RF.CC03	Duck Creek	\$533,000.00	\$363,756.22	\$169,243.78
RF.CC05	Las Vegas Range Wash	\$497,800.00	\$240,268.08	\$257,531.92
RF.CC06	Tropicana Wash	\$276,500.00	\$162,724.70	\$113,775.30
RF.CC07	Airport Channel	\$48,000.00	\$34,600.79	\$13,399.21
RF.CC08	Monson Channel	\$94,700.00	\$7,561.30	\$87,138.70
RF.CC09	Rawhide Channel	\$80,000.00	\$10,401.59	\$69,598.41
RF.CC10	Van Buskirk Channel	\$40,000.00	\$33,288.37	\$6,711.63
RF.CC11	Flamingo Wash North Fork	\$44,000.00	\$32,937.23	\$11,062.77
RF.CC14	Laughlin Washes	\$36,000.00	\$7,887.99	\$28,112.01
RF.CC15	Moapa Valley	\$137,800.00	\$98,602.72	\$39,197.28
RF.CC16	Blue Diamond Wash	\$264,000.00	\$210,332.79	\$53,667.21
RF.CC17	Searchlight	\$2,000.00	\$678.40	\$1,321.60
RF.CC18	Bunkerville	\$33,200.00	\$17,918.90	\$15,281.10
RF.CC19	Pittman Wash	\$42,500.00	\$15,505.52	\$26,994.48
RF.CC20	Indian Springs	\$9,000.00	\$2,007.92	\$6,992.08
RF.CC21	Northern Beltway Channels	\$70,000.00	\$15,942.01	\$54,057.99
		<u>\$3,487,200.00</u>	<u>\$1,972,300.75</u>	<u>\$1,514,899.25</u>

Henderson

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.HN65	C1 North	\$242,002.92	\$242,002.92	\$0.00
RF.HN66	C1 South	\$1,081,291.27	\$861,925.37	\$219,365.90
RF.HN67	Pittman Central NE	\$147,276.12	\$147,276.12	\$0.00
RF.HN68	Pittman Central SE	\$108,419.35	\$48,419.35	\$60,000.00
RF.HN69	Pittman Central NW	\$219,810.38	\$219,810.38	\$0.00
RF.HN70	Pittman Central SW	\$97,488.42	\$97,488.42	\$0.00
RF.HN71	Pittman Anthem Inspirada	\$36,433.98	\$35,535.45	\$898.53
RF.HN72	Pittman Seven Hills	\$134,129.57	\$133,231.05	\$898.52
RF.HN73	Pittman West Henderson	\$10,697.99	\$10,697.99	\$0.00
		<u>\$2,077,550.00</u>	<u>\$1,796,387.05</u>	<u>\$281,162.95</u>

Las Vegas

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.LV51	Cedar Ave Channel/Nellis System	\$213,000.00	\$53,344.78	\$159,655.22
RF.LV52	Gowan/Angel Pk/Lone Mtn System	\$600,000.00	\$503,506.46	\$96,493.54
RF.LV53	Lake Mead/Smoke Ranch/Washington Sys	\$50,000.00	\$38,601.67	\$11,398.33

Regional Flood Control District

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<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.LV54	Las Vegas Wash System	\$576,000.00	\$493,399.82	\$82,600.18
RF.LV55	Meadows/Oakey System	\$247,000.00	\$216,224.40	\$30,775.60
RF.LV56	Washington Ave/LV Creek	\$54,000.00	\$21,536.60	\$32,463.40
RF.LV57	US95/Outer Beltway/Ann Road System	\$1,085,000.00	\$1,013,863.37	\$71,136.63
		\$2,825,000.00	\$2,340,477.10	\$484,522.90

Mesquite

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.ME01	Mesquite Town Wash	\$21,308.00	\$21,308.00	\$0.00
RF.ME02	Abbott Wash Channel	\$20,516.15	\$20,516.15	\$0.00
RF.ME04	Town Wash Detention Basin	\$188,993.61	\$188,993.61	\$0.00
RF.ME07	Pulsipher Wash	\$14,966.44	\$14,966.44	\$0.00
RF.ME08	Abbott Wash Detention Basin	\$69,007.25	\$69,007.25	\$0.00
RF.ME09	Pulsipher Wash Detention Basin	\$20,008.55	\$20,008.55	\$0.00
		\$334,800.00	\$334,800.00	\$0.00

North Las Vegas

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.NL01	LV Wash "N" Channel	\$46,698.34	\$46,471.81	\$226.53
RF.NL02	Las Vegas Wash-Middle	\$156,779.65	\$156,553.12	\$226.53
RF.NL03	LV Wash-King Charles Channel	\$23,100.39	\$22,873.86	\$226.53
RF.NL04	Vandenberg Detention Basin	\$619,271.90	\$619,271.90	\$0.00
RF.NL05	North Las Vegas Detention Basin	\$3,971.04	\$3,971.04	\$0.00
RF.NL06	Upper LVW DB & Moccasin Levee	\$130,877.16	\$128,750.16	\$2,127.00
RF.NL07	Carey/Lake Mead Detention Basin	\$37,260.85	\$37,260.85	\$0.00
RF.NL08	Gowan Outfall Channel	\$18,696.40	\$18,696.40	\$0.00
RF.NL10	Upper Las Vegas Wash	\$5,367.29	\$5,367.29	\$0.00
RF.NL11	Clayton Street Channel	\$11,782.31	\$11,555.78	\$226.53
RF.NL12	Lower Las Vegas Detention Basin	\$101,367.81	\$101,367.81	\$0.00
RF.NL13	West Trib-Ranch House to Lower LV DB	\$78,790.88	\$78,564.34	\$226.54
RF.NL14	Trib to Western Trib @ Craig Rd	\$33,579.64	\$33,579.64	\$0.00
RF.NL15	Las Vegas Wash-Smoke Ranch	\$11,056.43	\$11,056.43	\$0.00
RF.NL16	Upper Las Vegas Wash Channel	\$29,783.27	\$29,783.27	\$0.00
RF.NL17	Range Wash-LVW Diversion & Levee	\$466.15	\$466.15	\$0.00
RF.NL18	Cheyenne Peaking Basin	\$18,876.30	\$18,876.30	\$0.00
RF.NL19	LVW-Middle, Cheyenne Ave to Owens Ave	\$449,774.19	\$449,573.69	\$200.50
		\$1,777,500.00	\$1,774,039.84	\$3,460.16

Program Total **\$10,802,050.00** **\$8,427,574.84** **\$2,374,475.16**

**Regional Flood Control District
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Boulder City

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.BC01	Hemenway Watershed	\$182,000.00	\$0.00	\$182,000.00
RF.BC02	Georgia/Buchanan Watershed	\$65,000.00	\$0.00	\$65,000.00
RF.BC03	North Railroad Watershed	\$20,000.00	\$0.00	\$20,000.00
RF.BC04	West Airport Watershed	\$33,000.00	\$0.00	\$33,000.00
		<u>\$300,000.00</u>	<u>\$0.00</u>	<u>\$300,000.00</u>

Clark County

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.CC01	Flamingo Wash	\$881,500.00	\$21,400.00	\$860,100.00
RF.CC02	Las Vegas Wash	\$313,000.00	\$1,700.00	\$311,300.00
RF.CC03	Duck Creek	\$455,500.00	\$6,578.00	\$448,922.00
RF.CC05	Las Vegas Range Wash	\$2,609,500.00	\$4,966.16	\$2,604,533.84
RF.CC06	Tropicana Wash	\$265,000.00	\$7,300.00	\$257,700.00
RF.CC07	Airport Channel	\$48,500.00	\$0.00	\$48,500.00
RF.CC08	Monson Channel	\$1,854,700.00	\$0.00	\$1,854,700.00
RF.CC09	Rawhide Channel	\$63,500.00	\$900.00	\$62,600.00
RF.CC10	Van Buskirk Channel	\$37,000.00	\$0.00	\$37,000.00
RF.CC11	Flamingo Wash North Fork	\$45,000.00	\$0.00	\$45,000.00
RF.CC14	Laughlin Washes	\$39,500.00	\$0.00	\$39,500.00
RF.CC15	Moapa Valley	\$120,500.00	\$0.00	\$120,500.00
RF.CC16	Blue Diamond Wash	\$147,500.00	\$1,700.00	\$145,800.00
RF.CC17	Searchlight	\$7,500.00	\$0.00	\$7,500.00
RF.CC18	Bunkerville	\$14,500.00	\$0.00	\$14,500.00
RF.CC19	Pittman Wash	\$41,500.00	\$1,700.00	\$39,800.00
RF.CC20	Indian Springs	\$13,500.00	\$0.00	\$13,500.00
RF.CC21	Northern Beltway Channels	\$34,000.00	\$1,700.00	\$32,300.00
		<u>\$6,991,700.00</u>	<u>\$47,944.16</u>	<u>\$6,943,755.84</u>

Henderson

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.HN65	C1 North	\$1,036,000.00	\$13,926.49	\$1,022,073.51
RF.HN66	C1 South	\$547,500.00	\$186,878.23	\$360,621.77
RF.HN67	Pittman Central NE	\$78,800.00	\$11,199.17	\$67,600.83
RF.HN68	Pittman Central SE	\$30,000.00	\$2,880.03	\$27,119.97
RF.HN69	Pittman Central NW	\$109,500.00	\$45,802.19	\$63,697.81
RF.HN70	Pittman Central SW	\$26,500.00	\$2,441.64	\$24,058.36
RF.HN71	Pittman Anthem Inspirada	\$70,900.00	\$2,172.79	\$68,727.21
RF.HN72	Pittman Seven Hills	\$112,500.00	\$2,264.55	\$110,235.45
RF.HN73	Pittman West Henderson	\$26,300.00	\$1,677.84	\$24,622.16
		<u>\$2,038,000.00</u>	<u>\$269,242.93</u>	<u>\$1,768,757.07</u>

Las Vegas

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.LV51	Cedar Ave Channel/Nellis System	\$100,000.00	\$13,078.33	\$86,921.67
RF.LV52	Gowan/Angel Pk/Lone Mtn System	\$700,000.00	\$5,853.65	\$694,146.35
RF.LV53	Lake Mead/Smoke Ranch/Washington Sys	\$100,000.00	\$5,659.69	\$94,340.31

Regional Flood Control District

Maintenance Work Program Status Report - Fiscal Year 2019

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.LV54	Las Vegas Wash System	\$700,000.00	\$9,404.93	\$690,595.07
RF.LV55	Meadows/Oakey System	\$100,000.00	\$2,413.14	\$97,586.86
RF.LV56	Washington Ave/LV Creek	\$225,000.00	\$1,858.11	\$223,141.89
RF.LV57	US95/Outer Beltway/Ann Road System	\$900,000.00	\$10,186.05	\$889,813.95
		\$2,825,000.00	\$48,453.90	\$2,776,546.10

Mesquite

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.ME01	Mesquite Town Wash	\$19,000.00	\$0.00	\$19,000.00
RF.ME02	Abbott Wash Channel	\$14,300.00	\$0.00	\$14,300.00
RF.ME04	Town Wash Detention Basin	\$292,400.00	\$0.00	\$292,400.00
RF.ME07	Pulsipher Wash	\$29,400.00	\$0.00	\$29,400.00
RF.ME08	Abbott Wash Detention Basin	\$60,000.00	\$0.00	\$60,000.00
RF.ME09	Pulsipher Wash Detention Basin	\$29,700.00	\$0.00	\$29,700.00
		\$444,800.00	\$0.00	\$444,800.00

North Las Vegas

<u>Facility</u>	<u>Facility Name</u>	<u>Budget</u>	<u>Amount Spent</u>	<u>Amount Remaining</u>
RF.NL01	LV Wash "N" Channel	\$67,575.00	\$586.00	\$66,989.00
RF.NL02	Las Vegas Wash-Middle	\$142,571.00	\$3,130.63	\$139,440.37
RF.NL03	LV Wash-King Charles Channel	\$57,071.00	\$10,500.58	\$46,570.42
RF.NL04	Vandenberg Detention Basin	\$155,747.74	\$0.00	\$155,747.74
RF.NL05	North Las Vegas Detention Basin	\$147,500.00	\$2,280.94	\$145,219.06
RF.NL06	Upper LVW DB & Moccasin Levee	\$285,851.84	\$216,065.60	\$69,786.24
RF.NL07	Carey/Lake Mead Detention Basin	\$103,071.00	\$20,759.41	\$82,311.59
RF.NL08	Gowan Outfall Channel	\$57,571.00	\$0.00	\$57,571.00
RF.NL10	Upper Las Vegas Wash	\$21,000.00	\$2,018.95	\$18,981.05
RF.NL11	Clayton Street Channel	\$47,571.00	\$853.43	\$46,717.57
RF.NL12	Lower Las Vegas Detention Basin	\$84,071.00	\$0.00	\$84,071.00
RF.NL13	West Trib-Ranch House to Lower LV DB	\$58,071.00	\$12,532.22	\$45,538.78
RF.NL14	Trib to Western Trib @ Craig Rd	\$49,571.00	\$296.12	\$49,274.88
RF.NL15	Las Vegas Wash-Smoke Ranch	\$45,571.00	\$0.00	\$45,571.00
RF.NL16	Upper Las Vegas Wash Channel	\$180,374.04	\$6,077.23	\$174,296.81
RF.NL17	Range Wash-LVW Diversion & Levee	\$146,241.38	\$0.00	\$146,241.38
RF.NL18	Cheyenne Peaking Basin	\$68,071.00	\$12,224.41	\$55,846.59
		\$1,717,500.00	\$287,325.52	\$1,430,174.48

Program Total	\$14,317,000.00	\$652,966.51	\$13,664,033.49
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REGIONAL FLOOD CONTROL DISTRICT
 FUND 3300 - BOND DEBT SERVICE FUND
 FUND BALANCE REPORT
 SEPTEMBER 2018

BEGINNING CASH BALANCE	21,220,083.64	
<u>Accruals/Adjustments</u>	<u>0.00</u>	
TOTAL BEGINNING CASH BALANCE		\$21,220,083.64
REVENUES:		
Interest Income	28,465.18	
Fund 2860 - Transfer In Debt Service	3,302,766.04	
Bonds Issued	0.00	
Premium on Bonds Issued	0.00	
Miscellaneous Other Revenue	0.00	
Accruals/Adjustments		
Miscellaneous Accruals/Adjustments	<u>0.00</u>	
TOTAL MONTHLY REVENUES		\$3,331,231.22
EXPENDITURES:		
Professional Services	0.00	
Debt Service Payments*	0.00	
Payments to Escrow Agent	0.00	
Transfers Out to Other Funds	0.00	
Accruals/Adjustments		
Miscellaneous Accruals/Adjustments	<u>0.00</u>	
TOTAL MONTHLY EXPENSES		<u>\$0.00</u>
ENDING CASH BALANCE:		<u><u>\$24,551,314.86</u></u>

*Principal payments paid annually (November); Interest payments paid semi-annually (May and November)

**REGIONAL FLOOD CONTROL DISTRICT
 FUND 4430 - CONSTRUCTION FUND
 FUND BALANCE REPORT
 SEPTEMBER 2018**

BEGINNING CASH BALANCE:

Cash in Custody of Treasurer	116,002,789.11
Custodial Account Cash Balance	10,521,305.04
Accruals/Adjustments	<u>0.00</u>

TOTAL BEGINNING CASH BALANCE **\$126,524,094.15**

REVENUES:

Fund 2860 - Transfer In Budgeted Transfer	8,920,000.00
Fund 3300 - Transfer In Bond Proceeds	0.00
Custodial Account - Transfer In to Treasurer	0.00
Interest Earnings	137,385.48
Custodial Account Interest Earnings	0.00
Proceeds from Bonds and Loans	0.00
Miscellaneous Other Revenue	0.00
Accruals/Adjustments	0.00
Miscellaneous Accruals/Adjustments	<u>0.00</u>

TOTAL MONTHLY REVENUES **\$9,057,385.48**

EXPENDITURES:

Capital Improvement Program	(4,609,213.32)
Professional Services	0.00
Project Reimbursements	0.00
Fund 2860 - Transfer Out Interest Earnings	(61,538.46)
Fund 2860 - Transfer Out ILA Closeout/Reductions	0.00
Custodial Account - Transfer Out to Treasurer	0.00
Accruals/Adjustments	0.00
Contracts Retention Payable	86,830.32
Contracts Retention Interest Payable	0.00
Accounts Payable	0.00
Miscellaneous Accruals/Adjustments	<u>0.00</u>

TOTAL MONTHLY EXPENDITURES **(\$4,583,921.46)**

ENDING CASH BALANCE:

Cash in Custody of Treasurer	120,476,253.13
Custodial Account Cash Balance	<u>10,521,305.04</u>

ENDING CASH BALANCE: **\$130,997,558.17**

**Regional Flood Control District
Monthly Expenditures
Capital Improvement Program
9/1/2018 to 9/30/2018**

Fund 4430

Fiscal Year 2018

<u>Vendor</u>	<u>Project</u>	<u>Invoice No.</u>	<u>Inv. Date</u>	<u>P.O. Number</u>	<u>Date Paid</u>	<u>Amount</u>
REGIONAL FLOOD CONTROL	RF.MOA01F10	1118001586	06/30/2018	none	09/13/2018	\$621.16
REGIONAL FLOOD CONTROL	RF.MOA01F10	1118001586	06/30/2018	none	09/13/2018	\$155.93
Fiscal Year Total						\$777.09

Fiscal Year 2019

<u>Vendor</u>	<u>Project</u>	<u>Invoice No.</u>	<u>Inv. Date</u>	<u>P.O. Number</u>	<u>Date Paid</u>	<u>Amount</u>
CEEC INC	RF.HEN16F17	#3	09/04/2018	4800008797 00010	09/25/2018	\$39,261.25
CITY OF HENDERSON	RF.HEN05E09	MSC5029967	08/30/2018	4800002768 00010	09/12/2018	\$1,519.85
CITY OF HENDERSON	RF.HEN05E09	MSC5030082	09/20/2018	4800002768 00010	09/28/2018	\$420.64
CITY OF HENDERSON	RF.HEN06H09	MSC5029965	08/30/2018	4800002480 00010	09/12/2018	\$72.16
CITY OF HENDERSON	RF.HEN06H09	MSC5030081	09/20/2018	4800002480 00010	09/28/2018	\$118.85
CITY OF HENDERSON	RF.HEN07F18	MSC5029969	08/30/2018	4800008975 00010	09/12/2018	\$195.43
CITY OF HENDERSON	RF.HEN07F18	MSC5030085	09/20/2018	4800008975 00010	09/28/2018	\$1,894.40
CITY OF HENDERSON	RF.HEN16A01	MSC5029961	08/30/2018	4800001182 00010	09/12/2018	\$2,005.22
CITY OF HENDERSON	RF.HEN16A01	MSC5030076	09/20/2018	4800001182 00010	09/28/2018	\$1,692.55
CITY OF HENDERSON	RF.HEN16A01	MSC5030077	09/20/2018	4800001182 00010	09/28/2018	\$133.40
CITY OF HENDERSON	RF.HEN16F17	MSC5029968	08/30/2018	4800008512 00010	09/12/2018	\$6,373.17
CITY OF HENDERSON	RF.HEN16F17	MSC5030084	09/20/2018	4800008512 00010	09/28/2018	\$15,753.73
CITY OF HENDERSON	RF.HEN22A09	MSC5029962	08/30/2018	4800002398 00010	09/12/2018	\$72.16
CITY OF HENDERSON	RF.HEN22A09	MSC5030078	09/20/2018	4800002398 00010	09/28/2018	\$133.41
CITY OF HENDERSON	RF.HEN23A09	MSC5029963	08/30/2018	4800002478 00010	09/12/2018	\$72.16
CITY OF HENDERSON	RF.HEN23A09	MSC5030079	09/20/2018	4800002478 00010	09/28/2018	\$157.46
CITY OF HENDERSON	RF.HEN05G16	MSC5029966	08/30/2018	4800007531 00010	09/12/2018	\$6,881.72
CITY OF HENDERSON	RF.HEN05G16	MSC5030083	09/20/2018	4800007531 00010	09/28/2018	\$5,827.47
CITY OF LAS VEGAS	RF.LAS14C11	269937	09/17/2018	4800004218 00010	09/26/2018	\$2,342.22
CITY OF LAS VEGAS	RF.LAS16P15	270058	09/17/2018	4800007389 00010	09/26/2018	\$3,623.30
CITY OF LAS VEGAS	RF.LAS16Q18	270179	09/17/2018	4800008811 00010	09/26/2018	\$584.28
CITY OF LAS VEGAS	RF.LAS23G15	270097	09/17/2018	4800007191 00010	09/26/2018	\$793.90
CITY OF LAS VEGAS	RF.LAS23H15	270017	09/17/2018	4800007390 00010	09/26/2018	\$3,175.48
CITY OF LAS VEGAS	RF.LAS23I17	270117	09/17/2018	4800008135 00010	09/26/2018	\$579.05
CITY OF LAS VEGAS	RF.LAS24H13	269977	09/17/2018	4800005747 00020	09/26/2018	\$5,816.82
CITY OF LAS VEGAS	RF.LAS24I15	270057	09/17/2018	4800007188 00010	09/26/2018	\$231.62
CITY OF LAS VEGAS	RF.LAS24J15	270077	09/17/2018	4800007189 00010	09/26/2018	\$6,666.49
CITY OF LAS VEGAS	RF.LAS24K17	270177	09/17/2018	4800008331 00010	09/26/2018	\$61,452.70
CITY OF LAS VEGAS	RF.LAS24K17	270177	09/17/2018	4800008331 00020	09/26/2018	\$1,037,772.22

**Regional Flood Control District
 Monthly Expenditures
 Capital Improvement Program
 9/1/2018 to 9/30/2018**

<u>Vendor</u>	<u>Project</u>	<u>Invoice No.</u>	<u>Inv. Date</u>	<u>P.O. Number</u>	<u>Date Paid</u>	<u>Amount</u>
CITY OF LAS VEGAS	RF.LAS24L17	270178	09/17/2018	4800008446 00010	09/26/2018	\$231.62
CITY OF LAS VEGAS	RF.LAS24M17	270157	09/17/2018	4800008554 00010	09/26/2018	\$17,960.85
CITY OF LAS VEGAS	RF.LAS28C12	269957	09/17/2018	4800005013 00010	09/26/2018	\$339.44
CITY OF LAS VEGAS	RF.LAS29B15	270037	09/17/2018	4800007391 00010	09/26/2018	\$9,535.72
CITY OF LAS VEGAS	RF.LAS29C16	268377	09/05/2018	4500255470 00010	09/13/2018	\$2,100.49
CITY OF LAS VEGAS	RF.LAS29D17	270137	09/17/2018	4800008455 00010	09/26/2018	\$561.91
CITY OF LAS VEGAS	RF.LAS14D14	269997	09/17/2018	4800006033 00010	09/26/2018	\$185,934.70
CITY OF LAS VEGAS	RF.LAS14D14	269997	09/17/2018	4800006033 00020	09/26/2018	\$13,174.32
FISHER SAND & GRAVEL CO	RF.HEN16F17	HEN16F17#2	08/31/2018	4800008656 00010	09/25/2018	\$1,736,606.34
NINYO AND MOORE	RF.HEN05G16	220743	08/30/2018	4800008838 00010	09/28/2018	\$14,467.50
PUBLIC WORKS/CC TREAS	RF.CLA08R13	1519031373	09/18/2018	none	09/18/2018	\$58,757.39
PUBLIC WORKS/CC TREAS	RF.CLA10H13	1519027441	09/07/2018	none	09/07/2018	\$20,129.13
PUBLIC WORKS/CC TREAS	RF.CLD19A17	1519028097	09/10/2018	none	09/10/2018	\$249,394.35
PUBLIC WORKS/CC TREAS	RF.LAU04A08	1519027442	09/07/2018	none	09/07/2018	\$529.30
PUBLIC WORKS/CC TREAS	RF.SEA03B17	1519033291	09/21/2018	none	09/21/2018	\$565,607.50
PUBLIC WORKS/CC TREAS	RF.CLA04W16	1519028410	09/11/2018	none	09/11/2018	\$509,720.00
PUBLIC WORKS/CC TREAS	RF.CLA15E13	1519026005	09/04/2018	none	09/04/2018	\$18,539.65
REGIONAL FLOOD CONTROL	RF.MOA01F10	1119000403	09/13/2018	none	09/14/2018	(\$621.16)
REGIONAL FLOOD CONTROL	RF.MOA01F10	1119000403	09/13/2018	none	09/14/2018	(\$155.93)
Fiscal Year Total						\$4,608,436.23
Fund Total						\$4,609,213.32

REGIONAL FLOOD CONTROL DISTRICT
 FUND 4440 - CAPITAL IMPROVEMENTS BOND FUND
 FUND BALANCE REPORT
 SEPTEMBER 2018

BEGINNING CASH BALANCE:	10,492,618.05	
Accruals/Adjustments	<u>0.00</u>	
TOTAL BEGINNING CASH BALANCE		\$10,492,618.05
REVENUES:		
Interest Income	12,115.30	
Proceeds from Bonds and Loans	0.00	
Other	<u>0.00</u>	
TOTAL MONTHLY REVENUES		\$12,115.30
EXPENDITURES:		
Capital Improvement Program	(142,450.91)	
Professional Services	0.00	
Project Reimbursements	0.00	
Fund 4430 - Transfer Out Reallocated Expenses	0.00	
Accruals/Adjustments		
Contracts Retention Payable	6,304.82	
Contracts Retention Interest Payable	0.00	
Accounts Payable	0.00	
Miscellaneous Accruals/Adjustments	<u>0.00</u>	
TOTAL MONTHLY EXPENDITURES		<u>(\$136,146.09)</u>
ENDING CASH BALANCE:		<u><u>\$10,368,587.26</u></u>

**Regional Flood Control District
 Monthly Expenditures
 Capital Improvement Program
 9/1/2018 to 9/30/2018**

Fund 4440

Fiscal Year 2018

<u>Vendor</u>	<u>Project</u>	<u>Invoice No.</u>	<u>Inv. Date</u>	<u>P.O. Number</u>	<u>Date Paid</u>	<u>Amount</u>
REGIONAL FLOOD CONTROL	RF.CLA27D13	1118001586	06/30/2018	none	09/13/2018	(\$24,376.40)
Fiscal Year Total						(\$24,376.40)

Fiscal Year 2019

<u>Vendor</u>	<u>Project</u>	<u>Invoice No.</u>	<u>Inv. Date</u>	<u>P.O. Number</u>	<u>Date Paid</u>	<u>Amount</u>
CITY OF HENDERSON	RF.HEN23B16	MSC5029964	08/30/2018	4800008134 00010	09/12/2018	\$10,675.28
CITY OF HENDERSON	RF.HEN23B16	MSC5030080	09/20/2018	4800008134 00010	09/28/2018	\$5,679.41
LAS VEGAS PAVING CORP	RF.HEN23B16	HEN23B16#1	07/31/2018	4800008137 00010	09/19/2018	\$119,002.92
LAS VEGAS PAVING CORP	RF.HLD06A15	HLD06A15#7	07/31/2018	4800008138 00010	09/19/2018	\$7,093.30
REGIONAL FLOOD CONTROL	RF.CLA27D13	1119000403	09/13/2018	none	09/14/2018	\$24,376.40
Fiscal Year Total						\$166,827.31
Fund Total						\$142,450.91

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

ENTITY: Boulder City

BOU01C10

Hemenway System, Phase II Improvements

Interlocal Amount \$745,000.00

Original Funding Date 02/11/2010

Expiration Date 01/14/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$730,000.00	\$623,869.77	\$106,130.23
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$15,000.00	\$7,726.67	\$7,273.33
Other	\$0.00	\$0.00	\$0.00
Total	\$745,000.00	\$631,596.44	\$113,403.56

BOU01D17

Hemenway System, Phase IIA Improvements

Interlocal Amount \$2,495,000.00

Original Funding Date 02/09/2017

Expiration Date 02/09/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$2,200,000.00	\$0.00	\$2,200,000.00
Const Engineering	\$295,000.00	\$0.00	\$295,000.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$2,495,000.00	\$0.00	\$2,495,000.00

BOU05J10

North Railroad Conveyance

Interlocal Amount \$530,000.00

Original Funding Date 02/11/2010

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$515,000.00	\$501,735.55	\$13,264.45
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$15,000.00	\$7,726.67	\$7,273.33
Other	\$0.00	\$0.00	\$0.00
Total	\$530,000.00	\$509,462.22	\$20,537.78

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

BOU05M18

North Railroad Conveyance, Phase II

Interlocal Amount \$2,843,962.00

Original Funding Date 06/14/2018

Expiration Date 06/28/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$2,585,420.00	\$0.00	\$2,585,420.00
Const Engineering	\$258,542.00	\$0.00	\$258,542.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$2,843,962.00	\$0.00	\$2,843,962.00

ENTITY: Clark County

CLA04E99

Flamingo Wash, McLeod Dr to Maryland PKWY

Interlocal Amount \$2,980,000.00

Original Funding Date 08/12/1999

Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$741,500.00	\$637,505.24	\$103,994.76
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,877,500.00	\$1,538,905.61	\$338,594.39
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$339,000.00	\$315,950.17	\$23,049.83
Other	\$22,000.00	\$17,086.99	\$4,913.01
Total	\$2,980,000.00	\$2,509,448.01	\$470,551.99

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

CLA08Q13

Duck Creek at Dean Martin
Interlocal Amount \$480,000.00

Original Funding Date 09/12/2013
Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$50,500.00	\$42,319.67	\$8,180.33
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$414,000.00	\$360,225.48	\$53,774.52
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$15,500.00	\$10,865.00	\$4,635.00
Other	\$0.00	\$0.00	\$0.00
Total	\$480,000.00	\$413,410.15	\$66,589.85

CLA08R13

Duck Creek, Las Vegas Boulevard
Interlocal Amount \$485,000.00

Original Funding Date 09/12/2013
Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$1,000.00	\$0.00	\$1,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$483,000.00	\$398,261.41	\$84,738.59
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$1,000.00	\$0.00	\$1,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$485,000.00	\$398,261.41	\$86,738.59

CLA08S13

Silverado Ranch Detention Basin and Outfall Facilities
Interlocal Amount \$1,370,000.00

Original Funding Date 09/12/2013
Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$31,000.00	\$13,185.99	\$17,814.01
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,248,000.00	\$663,658.37	\$584,341.63
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$81,000.00	\$32,001.46	\$48,998.54
Other	\$10,000.00	\$0.00	\$10,000.00
Total	\$1,370,000.00	\$708,845.82	\$661,154.18

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

CLA08W16

Duck Creek at Dean Martin

Interlocal Amount \$3,787,357.00

Original Funding Date 10/13/2016

Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$3,472,857.00	\$2,751,559.14	\$721,297.86
Const Engineering	\$314,500.00	\$0.00	\$314,500.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$3,787,357.00	\$2,751,559.14	\$1,035,797.86

CLA10F10

Flamingo Wash, Industrial Road to Hotel Rio Drive

Interlocal Amount \$46,000.00

Original Funding Date 04/08/2010

Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$10,500.00	\$6,574.40	\$3,925.60
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$32,000.00	\$18,553.85	\$13,446.15
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$3,500.00	\$2,618.17	\$881.83
Other	\$0.00	\$0.00	\$0.00
Total	\$46,000.00	\$27,746.42	\$18,253.58

CLA10H13

Airport Channel - Naples

Interlocal Amount \$1,150,000.00

Original Funding Date 09/12/2013

Expiration Date 06/30/2023

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$2,000.00	\$1,088.00	\$912.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,101,000.00	\$272,802.79	\$828,197.21
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$47,000.00	\$0.00	\$47,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,150,000.00	\$273,890.79	\$876,109.21

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

CLA15D12

LVW Sloan-Bonanza, Flam W below Nellis

Interlocal Amount \$6,122,000.00

Original Funding Date 06/14/2012

Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$22,000.00	\$9,552.24	\$12,447.76
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$5,291,000.00	\$4,672,763.02	\$618,236.98
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$220,000.00	\$94,464.74	\$125,535.26
Other	\$589,000.00	\$538,421.23	\$50,578.77
Total	\$6,122,000.00	\$5,315,201.23	\$806,798.77

CLA21A00

Orchard Detention Basin

Interlocal Amount \$1,799,700.00

Original Funding Date 07/13/2000

Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$448,000.00	\$382,123.56	\$65,876.44
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,073,000.00	\$802,900.43	\$270,099.57
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$251,900.00	\$172,595.02	\$79,304.98
Other	\$26,800.00	\$20,081.83	\$6,718.17
Total	\$1,799,700.00	\$1,377,700.84	\$421,999.16

CLA27C08

Flamingo Diversion - Rainbow Branch

Interlocal Amount \$1,030,000.00

Original Funding Date 08/14/2008

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$33,000.00	\$11,521.30	\$21,478.70
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$897,000.00	\$768,717.56	\$128,282.44
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$10,000.00	\$8,791.09	\$1,208.91
Other	\$90,000.00	\$71,702.65	\$18,297.35
Total	\$1,030,000.00	\$860,732.60	\$169,267.40

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

CLA36A18

Owens Detention Basin, Collection & Outfall
Interlocal Amount \$382,870.00

Original Funding Date 06/14/2018
Expiration Date 06/30/2023

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$382,870.00	\$0.00	\$382,870.00
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$382,870.00	\$0.00	\$382,870.00

CLD19A17

Katie Avenue Storm Drain - Local Drainage
Improvements
Interlocal Amount \$767,277.50

Original Funding Date 07/13/2017
Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$767,277.50	\$652,886.75	\$114,390.75
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$767,277.50	\$652,886.75	\$114,390.75

SEA03B17

Searchlight-South, Encinitas St. Storm Drain
Interlocal Amount \$2,530,000.00

Original Funding Date 08/10/2017
Expiration Date 06/30/2022

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$2,330,000.00	\$565,607.50	\$1,764,392.50
Const Engineering	\$200,000.00	\$11,087.20	\$188,912.80
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$2,530,000.00	\$576,694.70	\$1,953,305.30

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

ENTITY: Clark County Outlying

BUN01D11

Windmill Wash Detention Basin Expansion

Original Funding Date 02/10/2011

Interlocal Amount \$880,000.00

Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$41,000.00	\$32,052.15	\$8,947.85
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$656,000.00	\$595,571.05	\$60,428.95
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$179,000.00	\$171,547.97	\$7,452.03
Other	\$4,000.00	\$0.00	\$4,000.00
Total	\$880,000.00	\$799,171.17	\$80,828.83

GSP01B10

Goodsprings - Phase I

Original Funding Date 03/11/2010

Interlocal Amount \$83,400.00

Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$57,500.00	\$50,397.24	\$7,102.76
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$25,400.00	\$19,668.97	\$5,731.03
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$500.00	\$0.00	\$500.00
Other	\$0.00	\$0.00	\$0.00
Total	\$83,400.00	\$70,066.21	\$13,333.79

LAU04A08

SR 163 at Casino Drive

Original Funding Date 10/09/2008

Interlocal Amount \$473,500.00

Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$11,500.00	\$3,643.86	\$7,856.14
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$386,500.00	\$321,072.69	\$65,427.31
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$75,500.00	\$67,559.46	\$7,940.54
Other	\$0.00	\$0.00	\$0.00
Total	\$473,500.00	\$392,276.01	\$81,223.99

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

MOA01B89

Muddy River West Levee, Moapa Valley
Interlocal Amount \$13,501,000.00

Original Funding Date 05/11/1989
Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$10,811,200.00	\$10,810,530.39	\$669.61
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$2,448,000.00	\$1,826,342.42	\$621,657.58
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$132,500.00	\$130,581.84	\$1,918.16
Other	\$109,300.00	\$108,590.00	\$710.00
Total	\$13,501,000.00	\$12,876,044.65	\$624,955.35

MOA01F10

Muddy River Logandale Levee
Interlocal Amount \$1,753,000.00

Original Funding Date 03/11/2010
Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$566,500.00	\$565,975.14	\$524.86
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$970,000.00	\$958,949.92	\$11,050.08
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$83,500.00	\$76,115.20	\$7,384.80
Other	\$133,000.00	\$113,960.31	\$19,039.69
Total	\$1,753,000.00	\$1,715,000.57	\$37,999.43

MOA01H15

Muddy River Logandale Levee
Interlocal Amount \$8,500,000.00

Original Funding Date 01/08/2015
Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$7,900,000.00	\$7,693,360.36	\$206,639.64
Const Engineering	\$600,000.00	\$376,582.18	\$223,417.82
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$8,500,000.00	\$8,069,942.54	\$430,057.46

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

MOA03A11

Fairgrounds Detention Basin

Interlocal Amount \$964,000.00

Original Funding Date 02/10/2011

Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$74,500.00	\$23,485.05	\$51,014.95
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$700,000.00	\$489,010.45	\$210,989.55
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$172,500.00	\$146,365.41	\$26,134.59
Other	\$17,000.00	\$0.00	\$17,000.00
Total	\$964,000.00	\$658,860.91	\$305,139.09

SEA03A09

Searchlight - South, Encinitas St Storm Drain

Interlocal Amount \$138,000.00

Original Funding Date 08/13/2009

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$500.00	\$0.00	\$500.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$137,000.00	\$31,272.42	\$105,727.58
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$500.00	\$0.00	\$500.00
Other	\$0.00	\$0.00	\$0.00
Total	\$138,000.00	\$31,272.42	\$106,727.58

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

ENTITY: COE/Clark County

COEG294

Tropicana & Flamingo Washes

Interlocal Amount \$36,259,348.00

Original Funding Date 01/12/1995

Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$26,846,216.04	\$26,518,772.39	\$327,443.65
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$9,413,131.96	\$9,363,742.46	\$49,389.50
Total	\$36,259,348.00	\$35,882,514.85	\$376,833.15

ENTITY: Henderson

HEN05E09

Pittman, Horizon Ridge Detention Basin

Interlocal Amount \$792,285.00

Original Funding Date 12/10/2009

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$49,003.78	\$49,003.78	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$654,803.05	\$597,484.33	\$57,318.72
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$88,478.17	\$88,478.17	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$792,285.00	\$734,966.28	\$57,318.72

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

HEN06H09

Equestrian Detention Basin Expansion

Interlocal Amount \$346,797.00

Original Funding Date 08/13/2009

Expiration Date 12/31/2018

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$29,013.00	\$29,013.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$285,236.00	\$272,954.12	\$12,281.88
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$12,818.00	\$12,818.00	\$0.00
Other	\$19,730.00	\$18,780.50	\$949.50
Total	\$346,797.00	\$333,565.62	\$13,231.38

HEN07F18

Whitney Ranch Channel Replacement Project

Interlocal Amount \$448,800.00

Original Funding Date 08/09/2018

Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$336,800.00	\$2,089.83	\$334,710.17
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$50,000.00	\$0.00	\$50,000.00
Other	\$62,000.00	\$0.00	\$62,000.00
Total	\$448,800.00	\$2,089.83	\$446,710.17

HEN16A01

Pittman North Detention Basin & Outfall

Interlocal Amount \$2,181,514.00

Original Funding Date 07/12/2001

Expiration Date 12/31/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$108,800.68	\$108,800.68	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,592,369.22	\$1,521,162.53	\$71,206.69
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$401,827.10	\$400,224.90	\$1,602.20
Other	\$78,517.00	\$49,131.32	\$29,385.68
Total	\$2,181,514.00	\$2,079,319.43	\$102,194.57

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

HEN16F17

Pittman North Detention Basin & Outfall, Phase III
Interlocal Amount \$25,700,000.00

Original Funding Date 07/13/2017
Expiration Date 12/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$205.80	(\$205.80)
Construction	\$24,500,000.00	\$2,219,275.80	\$22,280,724.20
Const Engineering	\$1,200,000.00	\$103,758.46	\$1,096,241.54
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$25,700,000.00	\$2,323,240.06	\$23,376,759.94

HEN22A09

Anthem Pkwy Channel, Horizon Ridge to Sienna Heights
Interlocal Amount \$179,474.00

Original Funding Date 07/09/2009
Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$169,474.00	\$88,854.46	\$80,619.54
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$10,000.00	\$5,000.00	\$5,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$179,474.00	\$93,854.46	\$85,619.54

HEN23A09

Center Street Storm Drain
Interlocal Amount \$584,255.00

Original Funding Date 08/13/2009
Expiration Date 12/31/2018

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$13,870.00	\$13,870.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$548,855.00	\$528,166.26	\$20,688.74
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$21,530.00	\$21,530.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$584,255.00	\$563,566.26	\$20,688.74

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

ENTITY: Las Vegas

LAS14C11

Freeway Channel-Washington, MLK to Rancho Drive

Interlocal Amount \$1,073,510.00

Original Funding Date 07/14/2011

Expiration Date 12/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$5,000.00	\$1,792.87	\$3,207.13
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,063,510.00	\$1,010,997.23	\$52,512.77
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$5,000.00	\$0.00	\$5,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,073,510.00	\$1,012,790.10	\$60,719.90

LAS16O13

Rancho Rd System-Elkhorn, Fort Apache to Grand Canyon

Interlocal Amount \$2,358,400.00

Original Funding Date 12/12/2013

Expiration Date 01/01/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$2,174,100.00	\$2,028,395.77	\$145,704.23
Const Engineering	\$184,300.00	\$160,227.76	\$24,072.24
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$2,358,400.00	\$2,188,623.53	\$169,776.47

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

LAS16P15

Rancho Road System - Elkhorn, Grand Canyon to
Hualapai
Interlocal Amount \$654,000.00

Original Funding Date 07/09/2015

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$2,000.00	\$0.00	\$2,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$650,000.00	\$581,159.89	\$68,840.11
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$2,000.00	\$0.00	\$2,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$654,000.00	\$581,159.89	\$72,840.11

LAS16Q18

Rancho Road System-Elkhorn, Grand Canyon to
Hualapai
Interlocal Amount \$5,125,760.00

Original Funding Date 03/08/2018

Expiration Date 01/31/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$4,790,430.00	\$0.00	\$4,790,430.00
Const Engineering	\$335,330.00	\$584.28	\$334,745.72
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$5,125,760.00	\$584.28	\$5,125,175.72

LAS22S13

Brent Drainage System-Floyd Lamb Park to Durango
Drive
Interlocal Amount \$533,365.00

Original Funding Date 07/11/2013

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$1,000.00	\$0.00	\$1,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$530,365.00	\$435,783.71	\$94,581.29
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$2,000.00	\$0.00	\$2,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$533,365.00	\$435,783.71	\$97,581.29

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

LAS22T15

Brent Drainage System - Floyd Lamb Park to Durango Drive

Interlocal Amount \$4,900,700.00

Original Funding Date 08/13/2015

Expiration Date 12/31/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$4,600,000.00	\$4,316,960.10	\$283,039.90
Const Engineering	\$300,700.00	\$119.12	\$300,580.88
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$4,900,700.00	\$4,317,079.22	\$583,620.78

LAS23E13

Centennial Pkwy Channel West-CC 215, Pioneer Way to US95

Interlocal Amount \$1,070,687.00

Original Funding Date 07/11/2013

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$2,000.00	\$604.38	\$1,395.62
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,063,687.00	\$818,045.21	\$245,641.79
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$5,000.00	\$0.00	\$5,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,070,687.00	\$818,649.59	\$252,037.41

LAS23F14

Centennial Parkway Channel West-CC215, Pioneer Way to US95

Interlocal Amount \$13,900,000.00

Original Funding Date 11/13/2014

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$12,800,000.00	\$12,552,817.62	\$247,182.38
Const Engineering	\$1,100,000.00	\$57,065.13	\$1,042,934.87
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$13,900,000.00	\$12,609,882.75	\$1,290,117.25

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

LAS23G15

Centennial Parkway Channel West-US95, CC215 to Durango

Interlocal Amount \$1,261,471.00

Original Funding Date 07/09/2015

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$4,000.00	\$0.00	\$4,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,253,471.00	\$993,660.59	\$259,810.41
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$4,000.00	\$0.00	\$4,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,261,471.00	\$993,660.59	\$267,810.41

LAS23H15

Centennial Parkway Channel West-US95, Durango to Grand Teton

Interlocal Amount \$985,231.00

Original Funding Date 07/09/2015

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$2,000.00	\$0.00	\$2,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$981,231.00	\$559,094.10	\$422,136.90
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$2,000.00	\$0.00	\$2,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$985,231.00	\$559,094.10	\$426,136.90

LAS23I17

Cent Pkwy Chnl West-US95, CC215 to Grand Teton, Kyle Cyn

Interlocal Amount \$26,425,221.00

Original Funding Date 03/09/2017

Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$23,825,221.00	\$11,618,144.98	\$12,207,076.02
Const Engineering	\$2,600,000.00	\$5,763.60	\$2,594,236.40
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$26,425,221.00	\$11,623,908.58	\$14,801,312.42

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

LAS24H13

Gowan North-Buffalo Branch,Lone Mtn to Washburn Rd

Interlocal Amount \$992,000.00

Original Funding Date 07/11/2013

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$30,000.00	\$6,219.61	\$23,780.39
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$960,000.00	\$927,275.37	\$32,724.63
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$2,000.00	\$0.00	\$2,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$992,000.00	\$933,494.98	\$58,505.02

LAS24I15

Gowan Box Canyon - Lone Mountain Road

Interlocal Amount \$704,000.00

Original Funding Date 07/09/2015

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$2,000.00	\$0.00	\$2,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$700,000.00	\$367,024.79	\$332,975.21
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$2,000.00	\$0.00	\$2,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$704,000.00	\$367,024.79	\$336,975.21

LAS24J15

Gowan North - El Capitan Branch, Lone Mountain to Ann Road

Interlocal Amount \$785,478.00

Original Funding Date 07/09/2015

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$2,000.00	\$0.00	\$2,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$781,478.00	\$710,625.90	\$70,852.10
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$2,000.00	\$0.00	\$2,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$785,478.00	\$710,625.90	\$74,852.10

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

LAS24K17

Gowan North-Buffalo Branch, Lone Mtn to Washburn Rd

Interlocal Amount \$9,232,062.00

Original Funding Date 05/18/2017

Expiration Date 04/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$8,179,100.00	\$6,611,501.68	\$1,567,598.32
Const Engineering	\$1,052,962.00	\$460,431.60	\$592,530.40
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$9,232,062.00	\$7,071,933.28	\$2,160,128.72

LAS24L17

Gowan North-El Capitan Branch, Ann Rd to Centennial Pkwy

Interlocal Amount \$861,670.00

Original Funding Date 08/10/2017

Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$2,000.00	\$0.00	\$2,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$857,670.00	\$1,588.53	\$856,081.47
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$2,000.00	\$0.00	\$2,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$861,670.00	\$1,588.53	\$860,081.47

LAS24M17

Gowan North-El Capitan Branch, Lone Mtn to Ann Rd.

Interlocal Amount \$9,630,600.00

Original Funding Date 10/12/2017

Expiration Date 09/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$8,700,500.00	\$0.00	\$8,700,500.00
Const Engineering	\$930,100.00	\$32,877.67	\$897,222.33
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$9,630,600.00	\$32,877.67	\$9,597,722.33

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

LAS25B13

Cedar Avenue Channel Improvements
Interlocal Amount \$831,489.00

Original Funding Date 07/11/2013
Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$2,000.00	\$0.00	\$2,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$827,489.00	\$689,566.15	\$137,922.85
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$2,000.00	\$0.00	\$2,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$831,489.00	\$689,566.15	\$141,922.85

LAS28C12

Las Vegas Wash - Sloan Channel to Cedar Avenue
Interlocal Amount \$110,000.00

Original Funding Date 06/14/2012
Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$110,000.00	\$85,100.60	\$24,899.40
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$110,000.00	\$85,100.60	\$24,899.40

LAS29B15

Flamingo-Boulder HWY N-Boulder HWY Sahara to Charleston
Interlocal Amount \$1,726,003.00

Original Funding Date 12/10/2015
Expiration Date 12/31/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$34,000.00	\$0.00	\$34,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,673,003.00	\$1,256,922.66	\$416,080.34
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$19,000.00	\$0.00	\$19,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,726,003.00	\$1,256,922.66	\$469,080.34

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

LAS29C16

Flamingo-Bldr Hwy, N Charleston-Maryland Pkwy System

Interlocal Amount \$2,488,829.00

Original Funding Date 09/08/2016

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$5,000.00	\$0.00	\$5,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$2,478,829.00	\$895,989.42	\$1,582,839.58
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$5,000.00	\$0.00	\$5,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$2,488,829.00	\$895,989.42	\$1,592,839.58

LAS29D17

Flamingo-Boulder Hwy North, Charleston, Main to Maryland

Interlocal Amount \$1,529,674.00

Original Funding Date 08/10/2017

Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$2,000.00	\$0.00	\$2,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,525,674.00	\$1,749.39	\$1,523,924.61
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$2,000.00	\$0.00	\$2,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,529,674.00	\$1,749.39	\$1,527,924.61

LAS29E18

Flamingo - Boulder Hwy North - Boulder Hwy, Sahara to Charleston

Interlocal Amount \$26,115,786.00

Original Funding Date 10/11/2018

Expiration Date 01/31/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$24,407,277.00	\$0.00	\$24,407,277.00
Const Engineering	\$1,708,509.00	\$0.00	\$1,708,509.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$26,115,786.00	\$0.00	\$26,115,786.00

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

LAS30A13

Gowan-Alexander Rd., Rancho Drive to Decatur
Boulevard
Interlocal Amount \$711,938.00

Original Funding Date 07/11/2013

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$3,000.00	\$0.00	\$3,000.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$706,938.00	\$260,779.40	\$446,158.60
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$2,000.00	\$0.00	\$2,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$711,938.00	\$260,779.40	\$451,158.60

LAS31A17

LVW-Moccasin, Skye Canyon Park to Upper LVW
Interlocal Amount \$60,000.00

Original Funding Date 12/14/2017

Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$60,000.00	\$0.00	\$60,000.00
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$60,000.00	\$0.00	\$60,000.00

LLD10B13

Buckskin Avenue Storm Drain
Interlocal Amount \$1,200,000.00

Original Funding Date 07/11/2013

Expiration Date 12/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$1,200,000.00	\$0.00	\$1,200,000.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,200,000.00	\$0.00	\$1,200,000.00

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

LLD19A18

Luning Drive Storm Drain

Interlocal Amount \$1,201,965.00

Original Funding Date 07/12/2018

Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$1,201,965.00	\$0.00	\$1,201,965.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,201,965.00	\$0.00	\$1,201,965.00

ENTITY: Mesquite

MES01E17

Town Wash-Mesa Boulevard, El Dorado to Town Wash

Interlocal Amount \$416,516.00

Original Funding Date 09/14/2017

Expiration Date 09/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$391,516.00	\$244,572.90	\$146,943.10
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$25,000.00	\$0.00	\$25,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$416,516.00	\$244,572.90	\$171,943.10

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

MES04A15

Virgin River Flood Wall

Interlocal Amount \$1,433,903.00

Original Funding Date 11/12/2015

Expiration Date 07/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$18,680.00	\$0.00	\$18,680.00
Pre-Design	\$208,278.00	\$207,278.00	\$1,000.00
Design	\$886,060.00	\$107,933.67	\$778,126.33
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$157,630.00	\$0.00	\$157,630.00
Other	\$163,255.00	\$0.00	\$163,255.00
Total	\$1,433,903.00	\$315,211.67	\$1,118,691.33

ENTITY: North Las Vegas

NLD14A15

Oak Island Drive Storm Drain

Interlocal Amount \$497,750.00

Original Funding Date 07/09/2015

Expiration Date 12/31/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$497,750.00	\$0.00	\$497,750.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$497,750.00	\$0.00	\$497,750.00

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

NLV01H13

Las Vegas Wash - "N" Channel, Cheyenne to Gowan
Interlocal Amount \$317,990.00

Original Funding Date 10/10/2013
Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$38,500.00	\$34,533.51	\$3,966.49
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$235,880.00	\$225,125.73	\$10,754.27
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$23,030.00	\$22,583.97	\$446.03
Other	\$20,580.00	\$19,830.00	\$750.00
Total	\$317,990.00	\$302,073.21	\$15,916.79

NLV03E13

Hollywood System, Dunes South DB to Centennial
Parkway
Interlocal Amount \$2,706,972.00

Original Funding Date 10/10/2013
Expiration Date 12/31/2018

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$1,116,972.00	\$54,521.52	\$1,062,450.48
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,580,000.00	\$1,522,860.86	\$57,139.14
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$10,000.00	\$0.00	\$10,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$2,706,972.00	\$1,577,382.38	\$1,129,589.62

NLV03F17

Range Wash - Ann Branch
Interlocal Amount \$1,081,889.00

Original Funding Date 03/09/2017
Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$250,000.00	\$16,680.92	\$233,319.08
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$821,889.00	\$251,134.22	\$570,754.78
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$10,000.00	\$0.00	\$10,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,081,889.00	\$267,815.14	\$814,073.86

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

NLV03G17

Hollywood System, Centennial Pkwy-Speedway #2 DB
 Interlocal Amount \$1,586,850.00

Original Funding Date 03/09/2017
 Expiration Date 06/30/2022

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$507,125.00	\$28,120.00	\$479,005.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,069,725.00	\$335,104.97	\$734,620.03
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$10,000.00	\$0.00	\$10,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,586,850.00	\$363,224.97	\$1,223,625.03

NLV03H17

Hollywood System, Dunes S DB to Centennial Pkwy-
 Phase I
 Interlocal Amount \$14,469,000.00

Original Funding Date 11/09/2017
 Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$13,650,000.00	\$0.00	\$13,650,000.00
Const Engineering	\$819,000.00	\$14,380.09	\$804,619.91
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$14,469,000.00	\$14,380.09	\$14,454,619.91

NLV03I18

Range Wash - Ann Branch, Phase I
 Interlocal Amount \$2,668,000.00

Original Funding Date 02/08/2018
 Expiration Date 12/31/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$2,470,000.00	\$0.00	\$2,470,000.00
Const Engineering	\$198,000.00	\$7,213.33	\$190,786.67
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$2,668,000.00	\$7,213.33	\$2,660,786.67

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

NLV04K17

Gowan Outfall, Alexander Rd - Decatur to Simmons Street
 Interlocal Amount \$1,931,156.00

Original Funding Date 02/09/2017

Expiration Date 06/30/2022

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$1,921,156.00	\$545,994.84	\$1,375,161.16
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$10,000.00	\$0.00	\$10,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,931,156.00	\$545,994.84	\$1,385,161.16

NLV09E11

Vandenberg North Detention Basin & Outfall
 Interlocal Amount \$1,268,000.00

Original Funding Date 04/14/2011

Expiration Date 06/30/2022

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$44,673.77	\$39,596.43	\$5,077.34
Pre-Design	\$123,326.23	\$123,326.23	\$0.00
Design	\$1,095,000.00	\$810,285.95	\$284,714.05
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$5,000.00	\$0.00	\$5,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,268,000.00	\$973,208.61	\$294,791.39

NLV09I13

Beltway Detention Basin and Channel
 Interlocal Amount \$1,334,000.00

Original Funding Date 10/10/2013

Expiration Date 06/30/2022

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$400,000.00	\$115,225.13	\$284,774.87
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$924,000.00	\$623,129.32	\$300,870.68
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$10,000.00	\$1,185.69	\$8,814.31
Other	\$0.00	\$0.00	\$0.00
Total	\$1,334,000.00	\$739,540.14	\$594,459.86

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

NLV17C16

Fifth Street Collector, Centennial Pkwy to Deer Springs Way

Interlocal Amount \$726,079.00

Original Funding Date 11/10/2016

Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$259,088.00	\$7,481.16	\$251,606.84
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$456,991.00	\$291,062.59	\$165,928.41
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$10,000.00	\$0.00	\$10,000.00
Other	\$0.00	\$0.00	\$0.00
Total	\$726,079.00	\$298,543.75	\$427,535.25

NLV17D18

Fifth St Collector, Centennial Pkwy to Deer Spgs Way

Interlocal Amount \$5,124,000.00

Original Funding Date 09/13/2018

Expiration Date 06/30/2022

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$4,658,000.00	\$0.00	\$4,658,000.00
Const Engineering	\$466,000.00	\$0.00	\$466,000.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$5,124,000.00	\$0.00	\$5,124,000.00

NLV18B07

Brooks Channel

Interlocal Amount \$595,749.00

Original Funding Date 09/13/2007

Expiration Date 06/30/2020

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$10,000.00	\$9,616.85	\$383.15
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$545,839.00	\$544,842.91	\$996.09
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$24,910.00	\$24,752.87	\$157.13
Other	\$15,000.00	\$8,250.00	\$6,750.00
Total	\$595,749.00	\$587,462.63	\$8,286.37

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

NLV18F13

Central Freeway Channel At Cheyenne

Interlocal Amount \$772,549.00

Original Funding Date 12/12/2013

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$5,000.00	\$270.36	\$4,729.64
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$767,549.00	\$691,762.23	\$75,786.77
Construction	\$0.00	\$0.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$772,549.00	\$692,032.59	\$80,516.41

NLV18H14

Brooks Channel

Interlocal Amount \$4,726,000.00

Original Funding Date 09/11/2014

Expiration Date 07/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$4,490,000.00	\$4,465,399.37	\$24,600.63
Const Engineering	\$236,000.00	\$224,571.56	\$11,428.44
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$4,726,000.00	\$4,689,970.93	\$36,029.07

Current Project Expense Summary

PAY-AS-YOU-GO FUNDED PROJECTS

NLV18I16

Central Freeway Channel at Cheyenne

Interlocal Amount \$11,300,000.00

Original Funding Date 12/08/2016

Expiration Date 12/31/2018

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$10,690,000.00	\$9,289,670.05	\$1,400,329.95
Const Engineering	\$610,000.00	\$373,684.02	\$236,315.98
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$11,300,000.00	\$9,663,354.07	\$1,636,645.93

Pay-As-You-Go Totals

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$42,697,142.27	\$39,624,076.82	\$3,073,065.45
Pre-Design	\$331,604.23	\$330,604.23	\$1,000.00
Design	\$49,873,757.27	\$33,664,372.22	\$16,209,385.05
Construction	\$172,089,897.50	\$64,765,579.12	\$107,324,318.38
Const Engineering	\$13,408,943.00	\$1,828,346.00	\$11,580,597.00
Environmental	\$2,581,123.27	\$1,821,482.47	\$759,640.80
Other	\$10,773,313.96	\$10,329,577.29	\$443,736.67
Total	\$291,755,781.50	\$152,364,038.15	\$139,391,743.35
Construction Projects = 23 Design / Other Projects = 55			

Current Project Expense Summary

BOND FUNDED PROJECTS

ENTITY: Clark County

CLA04W16

Flamingo Wash, Eastern Avenue

Interlocal Amount \$1,420,000.00

Original Funding Date 05/19/2016

Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$1,315,000.00	\$631,150.00	\$683,850.00
Const Engineering	\$105,000.00	\$0.00	\$105,000.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$1,420,000.00	\$631,150.00	\$788,850.00

CLA08T14

Duck Creek, Las Vegas Boulevard

Interlocal Amount \$7,400,000.00

Original Funding Date 09/11/2014

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$6,700,000.00	\$6,337,901.83	\$362,098.17
Const Engineering	\$700,000.00	\$638,828.35	\$61,171.65
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$7,400,000.00	\$6,976,730.18	\$423,269.82

CLA15E13

LVW-Sloan to Stewart-Flam Wash below Nellis

Interlocal Amount \$84,184,000.00

Original Funding Date 10/10/2013

Expiration Date 06/30/2023

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$73,952,000.00	\$71,935,126.87	\$2,016,873.13
Const Engineering	\$7,432,000.00	\$6,667,773.98	\$764,226.02
Environmental	\$0.00	\$0.00	\$0.00
Other	\$2,800,000.00	\$235,889.73	\$2,564,110.27
Total	\$84,184,000.00	\$78,838,790.58	\$5,345,209.42

Current Project Expense Summary

BOND FUNDED PROJECTS

CLA15F16

Las Vegas Wash - Water Reclamation Channel

Interlocal Amount \$3,400,000.00

Original Funding Date 05/19/2016

Expiration Date 06/30/2021

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$3,400,000.00	\$3,400,000.00	\$0.00
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$3,400,000.00	\$3,400,000.00	\$0.00

ENTITY: Clark County Outlying

LAU04B17

SR 163 at Casino Drive

Interlocal Amount \$2,000,000.00

Original Funding Date 07/13/2017

Expiration Date 06/30/2022

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$1,835,000.00	\$0.00	\$1,835,000.00
Const Engineering	\$165,000.00	\$0.00	\$165,000.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$2,000,000.00	\$0.00	\$2,000,000.00

Current Project Expense Summary

BOND FUNDED PROJECTS

ENTITY: Henderson

HEN05G16

Horizon Ridge Detention Basin

Interlocal Amount \$7,506,000.00

Original Funding Date 04/14/2016

Expiration Date 06/30/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$6,950,000.00	\$3,916,281.00	\$3,033,719.00
Const Engineering	\$556,000.00	\$146,592.47	\$409,407.53
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$7,506,000.00	\$4,062,873.47	\$3,443,126.53

HEN23B16

Center Street Storm Drain

Interlocal Amount \$9,731,435.15

Original Funding Date 03/10/2016

Expiration Date 12/31/2018

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$8,915,326.25	\$7,987,555.51	\$927,770.74
Const Engineering	\$816,108.90	\$205,762.88	\$610,346.02
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$9,731,435.15	\$8,193,318.39	\$1,538,116.76

HLD06A15

Appaloosa Storm Drain, Local Drainage Project

Interlocal Amount \$925,834.35

Original Funding Date 07/09/2015

Expiration Date 12/31/2018

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$925,834.35	\$925,332.15	\$502.20
Const Engineering	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$925,834.35	\$925,332.15	\$502.20

Current Project Expense Summary

BOND FUNDED PROJECTS

ENTITY: Las Vegas

LAS14D14

Freeway Channel-Washington, MLK to Rancho Drive

Original Funding Date 02/13/2014

Interlocal Amount \$11,405,343.00

Expiration Date 12/31/2019

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$10,500,343.00	\$8,267,583.19	\$2,232,759.81
Const Engineering	\$905,000.00	\$898,582.50	\$6,417.50
Environmental	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00
Total	\$11,405,343.00	\$9,166,165.69	\$2,239,177.31

Bond Totals

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$114,493,503.60	\$103,400,930.55	\$11,092,573.05
Const Engineering	\$10,679,108.90	\$8,557,540.18	\$2,121,568.72
Environmental	\$0.00	\$0.00	\$0.00
Other	\$2,800,000.00	\$235,889.73	\$2,564,110.27
Total	\$127,972,612.50	\$112,194,360.46	\$15,778,252.04
Construction Projects = 9 Design / Other Projects = 0			

Capital Improvement Program - Open Projects Summary

Pay-As-You-Go And Bond Totals

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$42,697,142.27	\$39,624,076.82	\$3,073,065.45
Pre-Design	\$331,604.23	\$330,604.23	\$1,000.00
Design	\$49,873,757.27	\$33,664,372.22	\$16,209,385.05
Construction	\$286,583,401.10	\$168,166,509.67	\$118,416,891.43
Const Engineering	\$24,088,051.90	\$10,385,886.18	\$13,702,165.72
Environmental	\$2,581,123.27	\$1,821,482.47	\$759,640.80
Other	\$13,573,313.96	\$10,565,467.02	\$3,007,846.94
Total	\$419,728,394.00	\$264,558,398.61	\$155,169,995.39
Construction Projects = 32 Design / Other Projects = 55			

Pay-As-You-Go Totals

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$42,697,142.27	\$39,624,076.82	\$3,073,065.45
Pre-Design	\$331,604.23	\$330,604.23	\$1,000.00
Design	\$49,873,757.27	\$33,664,372.22	\$16,209,385.05
Construction	\$172,089,897.50	\$64,765,579.12	\$107,324,318.38
Const Engineering	\$13,408,943.00	\$1,828,346.00	\$11,580,597.00
Environmental	\$2,581,123.27	\$1,821,482.47	\$759,640.80
Other	\$10,773,313.96	\$10,329,577.29	\$443,736.67
Total	\$291,755,781.50	\$152,364,038.15	\$139,391,743.35
Construction Projects = 23 Design / Other Projects = 55			

Bond Totals

Category	ILC Funding Allocation	Amount Spent	Total Remaining
Right of Way	\$0.00	\$0.00	\$0.00
Pre-Design	\$0.00	\$0.00	\$0.00
Design	\$0.00	\$0.00	\$0.00
Construction	\$114,493,503.60	\$103,400,930.55	\$11,092,573.05
Const Engineering	\$10,679,108.90	\$8,557,540.18	\$2,121,568.72
Environmental	\$0.00	\$0.00	\$0.00
Other	\$2,800,000.00	\$235,889.73	\$2,564,110.27
Total	\$127,972,612.50	\$112,194,360.46	\$15,778,252.04
Construction Projects = 9 Design / Other Projects = 0			

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Pay-As-You-Go Funding**

Boulder City

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
BOU01A87	Hemenway Wash	Closed	\$4,649,000.00
BOU01B88	Hemenway Wash Debris Basin	Closed	\$0.00
BOU01C10	Hemenway System, Phase II Improvements	Open	\$745,000.00
BOU01D17	Hemenway System, Phase IIA Improvements	Open	\$2,495,000.00
BOU02A88	Georgia Avenue Channel	Closed	\$613,590.23
BOU03A88	Buchanan Blvd. Channel	Closed	\$412,719.91
BOU03B98	Buchanan Watershed Facilities	Closed	\$420,240.41
BOU03C10	Buchanan Blvd., Phase III Improvements	Closed	\$344,263.01
BOU03D11	Buchanan Blvd., Phase III Improvements	Closed	\$0.00
BOU03E12	Buchanan Blvd., Phase III Improvements	Closed	\$4,689,402.24
BOU04A96	West Airport Watershed	Closed	\$128,138.69
BOU04B97	West Airport Watershed Construction	Closed	\$1,839,686.60
BOU04C01	Hemenway Wash	Closed	\$101,580.75
BOU05A98	North Railroad Watershed (Industrial Road Facility)	Closed	\$448,873.75
BOU05B00	North Railroad Watershed, Veteran Memorial Dr Culvert	Closed	\$129,206.79
BOU05G07	Yucca Street Drainage	Closed	\$71,036.09
BOU05H07	Bootleg Canyon Detention Basin Outfall	Closed	\$521,408.23
BOU05J10	North Railroad Conveyance	Open	\$530,000.00
BOU05K11	Bootleg Canyon Detention Basin, Phase II	Closed	\$829,854.43
BOU05L11	North Railroad Conveyance	Closed	\$3,503,502.20
BOU05M18	North Railroad Conveyance, Phase II	Open	\$2,843,962.00
BOU06A99	Ville Drive Flood Control Facilities	Closed	\$144,261.08
BOU06B01	Ville Drive Flood Control Facilities	Closed	\$747,314.67
			<u>\$26,208,041.08</u>

Clark County

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
CLA01A87	Upper Flamingo Wash Detention Basin & Outfall	Closed	\$6,932,932.63
CLA01B04	F4 Patrick Lane/Ft Apache Road Lateral	Closed	\$482,000.00
CLA01D07	Flamingo Hacienda	Closed	\$4,037,385.53
CLA02A88	Rawhide Channel	Closed	\$69,932.30
CLA02B90	Rawhide Channel/Eastern Av Drainage Structure	Closed	\$155,540.00
CLA02C90	Rawhide Channel/Eastern Outfall	Closed	\$115,000.00
CLA02D90	Rawhide Channel/Eastern-Topaz	Closed	\$1,069,252.07
CLA02E91	Rawhide Channel/McLeod-Mtn Vista	Closed	\$166,990.74
CLA02G99	Rawhide Channel at Sagebrush Street	Closed	\$441,753.51
CLA03A88	Van Buskirk Channel - Predesign	Closed	\$118,463.30
CLA03B90	Van Buskirk Channel Outfall	Closed	\$3,332,227.08
CLA03C90	Van Buskirk Channel - ROW	Closed	(\$202,889.63)
CLA03D91	Van Buskirk System/Spencer-Rochelle	Closed	\$808,963.97
CLA03H93	Van Buskirk Channel / Phases IIA & VI Construction	Closed	\$6,112,843.32
CLA04A89	Flamingo Wash Bridge @ Eastern	Closed	\$61,900.00
CLA04B89	Flamingo Wash Bridge @ Arville	Closed	\$294,818.61
CLA04C90	Flamingo Wash Bridge @ Paradise & Palos Verde	Closed	\$1,711,276.60
CLA04D93	Flamingo Wash - Winnick Ave. Improvements	Closed	\$2,739,120.64

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Pay-As-You-Go Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
CLA04E99	Flamingo Wash, McLeod Dr to Maryland PKWY	Open	\$2,980,000.00
CLA04F99	Flamingo Wash, I-515 to McLeod Dr	Closed	\$1,252,537.43
CLA04G00	Flamingo Wash at Boulder Highway	Closed	\$860,102.20
CLA04H00	Flamingo Wash, Boulder Highway to Mojave Rd	Closed	\$6,284,809.40
CLA04I01	Flamingo Wash, Spencer Street Bridge & Approach Channel	Closed	\$2,436,743.83
CLA04M06	Flamingo - Boulder HWY N, Sahara Ave to Flamingo Wash	Closed	\$1,027,029.82
CLA04Q08	Flamingo Wash, Nellis Blvd to I-515	Closed	\$995,990.90
CLA04R08	Flamingo Wash, Desert Inn to Eastern Avenue	Closed	\$7,869,248.66
CLA04U10	Flamingo-Boulder Highway North, Sahara Ave to Flamingo Wash	Closed	\$10,933,404.28
CLA04V10	Flamingo Wash, Nellis Boulevard to I-515	Closed	\$11,132,175.16
CLA05A91	Duck Creek Bridges @ Tomiyasu & La Casita	Closed	\$814,243.47
CLA06A91	Range Wash Confluence Detention Basin Facilities	Closed	\$479,952.25
CLA07A92	Sloan Channel (Las Vegas Wash to Owens)	Closed	\$4,820,788.11
CLA07B01	Sloan Channel, Las Vegas Wash to Charleston	Closed	\$340,747.81
CLA08A92	Lower Duck Creek Detention Basin Predesign	Closed	\$807,918.53
CLA08B93	Lower Duck Creek DB ROW	Closed	\$5,921,794.42
CLA08C98	Lower Duck Creek Detention Basin & Outfall Channel	Closed	(\$11,828.26)
CLA08D01	Duck Creek, Lower Detention Basin to I-15	Closed	\$9,691,844.67
CLA08F03	Duck Creek, Lower Detention Basin to Silverado Ranch Blvd	Closed	\$3,717,281.04
CLA08H05	Duck Creek, Railroad Detention Basin	Closed	\$673,683.44
CLA08K07	Duck Creek Channel, Silverado Ranch Blvd to Las Vegas Blvd	Closed	\$8,698,135.53
CLA08M08	Duck Creek, Railroad Detention Basin	Closed	\$13,302,732.94
CLA08Q13	Duck Creek at Dean Martin	Open	\$480,000.00
CLA08R13	Duck Creek, Las Vegas Boulevard	Open	\$485,000.00
CLA08S13	Silverado Ranch Detention Basin and Outfall Facilities	Open	\$1,370,000.00
CLA08W16	Duck Creek at Dean Martin	Open	\$3,787,357.00
CLA09A97	Durango Collector (Hacienda to Twain)	Closed	\$366,253.18
CLA09B99	Durango Collector (Twain to Hacienda)	Closed	\$100,005.00
CLA09C06	Durango Collector (Twain to Hacienda)	Closed	\$1,126.53
CLA10A97	Tropicana Wash (Paradise Road to Koval Lane)	Closed	\$228,665.56
CLA10D07	Tropicana Wash at Swenson Street	Closed	\$1,253,646.20
CLA10F10	Flamingo Wash, Industrial Road to Hotel Rio Drive	Open	\$46,000.00
CLA10G12	Tropicana Wash at Swenson Street	Closed	\$7,081,755.52
CLA10H13	Airport Channel - Naples	Open	\$1,150,000.00
CLA12A97	Desert Inn Detention Basin & Collection System	Closed	\$346,843.68
CLA12B98	Desert Inn Detention Basin & Collection System/DI Lateral	Closed	\$43,197.00
CLA12C99	Desert Inn Detention Basin & Collection System	Closed	\$689.01

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Pay-As-You-Go Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
CLA13A97	Lakes Detention Basin, Collection System, & Outfall	Closed	\$531,803.87
CLA13B98	Lakes Detention Basin Collection System & Outfall	Closed	\$788,631.74
CLA13C98	Lakes DB Collection System	Closed	\$783,619.03
CLA14A97	Duck Creek (Hollywood to Stephanie Street)	Closed	\$138,962.97
CLA14B99	Duck Creek Channel (Hollywood Blvd to Stephaine St)--ROWA	Closed	\$375,552.00
CLA14C99	Duck Creek, Sunset Road to Eastern Ave	Closed	\$560,650.99
CLA14D99	Duck Creek, Hollywood Blvd to Stephanie Street	Closed	\$1,651,449.79
CLA14E99	Duck Creek, Stephanie St to Green Valley PKWY	Closed	\$321,054.87
CLA14F00	Duck Creek, Emerald Avenue to Stephanie St	Closed	\$5,987,176.80
CLA14G00	Duck Creek at Robindale Road	Closed	\$1,066,974.02
CLA14H00	Duck Creek, Tomiyasu Lane to Topaz St	Closed	\$3,548,160.77
CLA14I02	Duck Creek, US 95 Branch	Closed	\$1,107,637.45
CLA14L02	Duck Creek, Phase II and Lower Pittman	Closed	\$13,651,024.74
CLA14R04	Duck Creek, Mountain Vista Street to Green Valley PKWY	Closed	\$707,824.31
CLA14S07	Duck Creek, Eldorado Lane to Spencer Street	Closed	\$6,139,169.42
CLA14U09	Duck Creek, Robindale to I-215	Closed	\$23,516.83
CLA14V10	Duck Creek, Mtn. Vista to Green Valley Parkway	Closed	\$8,976,052.51
CLA15B99	Colorado Avenue Storm Drain System	Closed	(\$41,517.92)
CLA15C09	Las Vegas Wash, Sloan Lane to Stewart Ave	Closed	\$193,555.23
CLA15D12	LVW Sloan-Bonanza, Flam W below Nellis	Open	\$6,122,000.00
CLA16A98	Upr Duck Ck, Ctrl Duck Ck, Lwr Blue Diamond & Bird Sp/ROW	Closed	\$2,226,784.41
CLA16B00	Upr Duck, Ctrl Duck, Lower Blue Dia, & Bird Springs DB	Closed	\$1,363,624.69
CLA16F04	Lower Blue Diamond Detention Basin Collector Channel	Closed	\$8,060,995.11
CLA16G05	Blue Diamond Wash Wigwam, UPRR to Jones Boulevard	Closed	\$535,000.00
CLA16H06	Blue Dia Wash S Rainbow, Pebble - Raven & Wigwam - Ford	Closed	\$2,444,155.20
CLA16I07	Lower Blue Diamond Detention Basin Outfall	Closed	\$1,694,368.59
CLA16J07	Blue Diamond Wash Wigwam, Jones Blvd to Rainbow	Closed	\$357,603.89
CLA16K07	Upper Duck Creek Detention Basin	Closed	\$3,000,000.00
CLA17E04	Blue Diamond Channel, Rainbow Branch	Closed	\$1,495,409.16
CLA19A99	Red Rock Channel, Naples Branch	Closed	\$1,333,173.93
CLA19C02	Red Rock Channel, Naples Branch - Flamingo Connector	Closed	\$674,561.31
CLA20A99	Washington Collection System	Closed	\$69,701.68
CLA20B00	Washington Collection System	Closed	\$680,964.62
CLA21A00	Orchard Detention Basin	Open	\$1,799,700.00
CLA21B12	Orchard Detention Basin	Closed	\$4,929,886.35
CLA22A00	Flamingo Diversion - Jones Branch	Closed	\$100,001.71
CLA22B03	Flamingo Diversion - Jones Branch	Closed	\$1,100,000.00
CLA26C08	Flam Div - South Buffalo Branch, Flamingo Wash to Patrick Lane	Closed	\$776,336.79

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Pay-As-You-Go Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
CLA27C08	Flamingo Diversion - Rainbow Branch	Open	\$1,030,000.00
CLA35A11	Tropicana Avenue Conveyance, LVW to Mtn. Vista	Closed	\$249,789.19
CLA36A18	Owens Detention Basin, Collection & Outfall	Open	\$382,870.00
CLD02A11	Annie Oakley Drive at Rawhide Channel Storm Drain	Closed	\$84,203.00
CLD04A08	Twain at Pecos-McLeod Storm Drain	Closed	\$442,521.57
CLD07A07	Sunrise Area Storm Drain	Closed	\$914,982.31
CLD07B08	Carey Avenue Storm Drain	Closed	\$1,351,525.62
CLD07C10	Sunrise Ave. Storm Drain, Fogg St. to Clayton St.	Closed	\$154,935.40
CLD07D12	Toiyabe Street Storm Drain	Closed	\$0.00
CLD14A10	Tunis Ave and Karvel Street Storm Drain	Closed	\$189,391.53
CLD15A09	Olive Street Storm Drain, US-95 to Palm Street	Closed	\$800,286.13
CLD17A09	Las Vegas Blvd/Serene Ave Storm Drain	Closed	\$133,338.79
CLD19A17	Katie Avenue Storm Drain - Local Drainage Improvements	Open	\$767,277.50
CLD20A12	Washington/Hollywood Storm Drain	Closed	\$259,862.20
CLD98A06	Hickam Avenue Storm Drain	Closed	\$465,091.07
CLD99A05	Red Coach Ave/Cimarron Rd Improvements	Closed	\$388,200.00
SEA03B17	Searchlight-South, Encinitas St. Storm Drain	Open	\$2,530,000.00
			<u>\$235,637,226.15</u>

Clark County Outlying

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
BUN01A90	Bunkerville Channel (aka Windmill Channel)	Closed	\$817,795.45
BUN01B98	Bunkerville Flood Control Improvements	Closed	\$5,734,536.80
BUN01C05	Windmill Wash Outfall	Closed	\$2,839,135.00
BUN01D11	Windmill Wash Detention Basin Expansion	Open	\$880,000.00
GSP01A88	Goodsprings Flood Control Improvements	Closed	\$72,275.84
GSP01B10	Goodsprings - Phase I	Open	\$83,400.00
IND01A98	Indian Springs Flood Control Improvements	Closed	\$579,193.24
LAU01A89	Unnamed Wash, Laughlin	Closed	\$349,995.99
LAU02A89	Hiko Springs, Laughlin	Closed	\$369,974.40
LAU02B92	Hiko Springs, Laughlin, Remap	Closed	\$8,000.00
LAU03A96	Hiko Springs Outfall Channel	Closed	\$7,771,291.25
LAU04A08	SR 163 at Casino Drive	Open	\$473,500.00
MOA01A89	Cooper Ave. Crossing - Moapa Valley	Closed	\$185,000.00
MOA01B89	Muddy River West Levee, Moapa Valley	Open	\$13,501,000.00
MOA01C06	Muddy River, Gubler Avenue Bridge	Closed	\$745,638.67
MOA01D07	Muddy River, Gubler Avenue Bridge	Closed	\$5,319,472.98
MOA01E08	Muddy River & Trib - Cooper Ave to Yamashita St	Closed	\$966,120.32
MOA01F10	Muddy River Logandale Levee	Open	\$1,753,000.00
MOA01G11	Muddy River, Cooper Street Bridge	Closed	\$15,793,908.74
MOA01H15	Muddy River Logandale Levee	Open	\$8,500,000.00
MOA02A89	Logan Wash (aka Benson), Moapa Valley	Closed	\$235,040.74
MOA02B92	Logan Wash Construction	Closed	\$3,510,528.60
MOA03A11	Fairgrounds Detention Basin	Open	\$964,000.00
NEL01A88	Nelson Flood Control Improvements	Closed	\$2,961.95
SEA01A88	Searchlight Flood Control Improvements	Closed	\$861,099.97
SEA01B99	Searchlight Flood Control Improvements	Closed	\$5,500.00

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Pay-As-You-Go Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
SEA02A07	Searchlight - West, US-95	Closed	\$162,000.00
SEA03A09	Searchlight - South, Encinitas St Storm Drain	Open	\$138,000.00
			<u>\$72,622,369.94</u>

COE/Clark County

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
COEESCRO	COE Escrow Account	Closed	\$15,126,215.56
COEG194	COE General Project Information	Closed	\$97,744.28
COEG294	Tropicana & Flamingo Washes	Open	\$36,259,348.00
COETF	TROPFLAM-Haz Mat	Closed	\$280,550.00
			<u>\$51,763,857.84</u>

Henderson

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
HEN01A87	Pittman Wash Channel Design (Phases I, II, III)	Closed	\$533,554.14
HEN01B87	Warm Springs & Stephanie Street Bridges	Closed	\$1,660,108.81
HEN01C90	Pittman Wash Channel - Phase I Construction	Closed	\$2,744,110.10
HEN01F00	Pittman Wash Lower Reach	Closed	\$324,343.79
HEN01H09	Pittman Wash, Duck Creek at I-515	Closed	\$349,813.57
HEN01I14	Pittman Wash, Duck Creek at I-515	Closed	\$2,295,044.97
HEN02A89	Green Valley Parkway Bridge	Closed	\$1,128,513.78
HEN03A91	UPRR Channel	Closed	\$117,073.57
HEN04A91	C-1 Predesign / Mission Hills Design	Closed	\$1,009,074.06
HEN04B93	C-1 Channel / Lake Mead Dr. to Burkholder Design	Closed	\$173,333.98
HEN04E96	Mission Hills Western Interceptor Diversion	Closed	\$2,636,599.02
HEN04F97	Black Mountain Detention Basin	Closed	\$275,048.92
HEN04I98	C-1 Channel (Culvert) at Lake Mead	Closed	\$907,210.00
HEN04K99	Upper and Middle Reaches of the C-1 Channel	Closed	\$521,871.29
HEN04O09	C-1, Four Kids Wash - Lake Mead to Eagle Rock	Closed	\$22,905.46
HEN04P09	Racetrack Channel, Drake to Burkholder	Closed	\$76,414.93
HEN04Q15	Racetrack Channel, Drake to Burkholder	Closed	\$833,948.46
HEN05A92	Sunset D B, Collection Sys, & Outfall (Pioneer DB)	Closed	\$3,749,294.23
HEN05C01	Pioneer Detention Basin	Closed	\$4,323,566.57
HEN05D09	Pioneer Detention Basin Expansion and Inflow	Closed	\$325,840.81
HEN05E09	Pittman, Horizon Ridge Detention Basin	Open	\$792,285.00
HEN06A93	Equestrian Drive Detention Basin	Closed	\$388,624.49
HEN06B95	Equestrian Detention Basin	Closed	\$6,128,895.08
HEN06C02	Equestrian Detention Basin Outfall	Closed	\$681,288.27
HEN06D05	C-1 Equestrian Tributary	Closed	\$227,591.57
HEN06F08	C-1 Equestrian Tributary	Closed	\$2,711,795.15
HEN06G08	Equestrian Detention Basin Outfall - Heritage Channel	Closed	\$4,200,444.03
HEN06H09	Equestrian Detention Basin Expansion	Open	\$346,797.00
HEN06I09	Equestrian Tributary Phase II	Closed	\$405,636.14
HEN07A96	Pittman Park Detention Basin	Closed	\$1,546,249.59
HEN07B09	Pittman Wash, UPRR to Santiago	Closed	\$843,016.21
HEN07D09	Whitney Wash Channel	Closed	\$130,264.67
HEN07E11	Pittman Wash, UPRR to Santiago	Closed	\$8,796,470.83
HEN07F18	Whitney Ranch Channel Replacement Project	Open	\$448,800.00

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Pay-As-You-Go Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
HEN08A96	Railroad East Detention Basin	Closed	\$6,416,341.47
HEN08B08	Pittman Railroad East Conveyance	Closed	\$444,380.89
HEN08C08	Pittman Railroad East Conveyance	Closed	\$8,518,517.91
HEN09A99	Pittman East Detention Basin (collapse with HEN09A97)	Closed	\$119,918.19
HEN09B00	Pittman Eastern Detention Basin	Closed	\$6,099,436.41
HEN09D09	Pittman Seven Hills Park Channel	Closed	\$0.00
HEN10B99	South Pittman Detention Basin	Closed	\$3,202,101.72
HEN12A99	Gibson Channel at Sunset Road	Closed	\$40,125.00
HEN12B01	Gibson Channel Culvert at Sunset Road	Closed	\$364,211.76
HEN12C02	Gibson Conveyance System	Closed	\$237,718.78
HEN12F05	Pittman Gibson, Warm Springs Road to Kelso Dunes Avenue	Closed	\$10,000.00
HEN12GO6	Pittman Wash - Burns	Closed	\$4,251,084.08
HEN12H09	Pittman Burns, Sunset to Galleria	Closed	\$770,231.86
HEN12I09	Pittman, West Horizon - Palm Hills	Closed	\$249,028.80
HEN13A00	Boulder Highway Channel	Closed	\$360,070.00
HEN14A00	Pittman Pecos West Conveyance & Eastern Ave Tributary	Closed	\$2,355,800.39
HEN14B06	Pittman Pecos West Conveyance & Eastern Ave Tributary	Closed	\$6,787,948.72
HEN15A00	Pittman Wash Railroad Channel	Closed	\$568,801.51
HEN16A01	Pittman North Detention Basin & Outfall	Open	\$2,181,514.00
HEN16D15	Pittman North Detention Basin and Outfall, Phase 1	Closed	\$3,458,916.31
HEN16E15	Pittman North DB & Outfall, Phase II - Starr Avenue	Closed	\$1,865,136.31
HEN16F17	Pittman North Detention Basin & Outfall, Phase III	Open	\$25,700,000.00
HEN19B06	Northeast Detention Basin Outfall	Closed	\$337,852.88
HEN19C07	Northeast Detention Basin, Levee and Outfall	Closed	\$13,366,601.89
HEN21A05	Pittman Railroad, MacDonald Ranch Channel	Closed	\$253,025.49
HEN21B08	Pittman Railroad, MacDonald Ranch Channel	Closed	\$2,025,749.22
HEN22A09	Anthem Pkwy Channel, Horizon Ridge to Sienna Heights	Open	\$179,474.00
HEN23A09	Center Street Storm Drain	Open	\$584,255.00
HEN24A11	Duck Creek, Sunset to Sandhill	Closed	\$535,983.84
HEN24B13	Duck Creek, Sunset to Sandhill	Closed	\$3,475,829.83
HLD15A06	Blackridge Road Storm Drain System	Closed	\$529,071.04
			\$146,944,955.79

Las Vegas

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
LAS01A87	Angel Park Detention Basin Outflow Structure	Closed	\$397,978.73
LAS01B95	Angel Park Detention Basin Expansion	Closed	\$1,356,534.40
LAS01D09	Angel Park North - Detention Basin	Closed	\$597,382.00
LAS02A87	Buffalo Channel	Closed	\$4,167,183.73
LAS02B91	Buffalo Channel/Summerlin PKWY - Vegas Drive	Closed	\$126,491.20
LAS02C91	Buffalo Channel/Westcliff-Summerlin Pkwy	Closed	\$471,594.88
LAS02D92	Buffalo Channel/Doe Av.-Westcliff Dr	Closed	\$84,175.72
LAS02F93	Buffalo Channel / Doe-Westcliff	Closed	\$1,685,430.55
LAS03A89	Gowan Rd Detention System	Closed	\$195,685.16

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Pay-As-You-Go Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
LAS03B89	Gowan Detention Basin & Outfall	Closed	\$4,813,519.80
LAS03D98	Gowan South Detention Basin Expansion	Closed	\$126,398.42
LAS03E00	Gowan South DB Expansion	Closed	\$2,609,639.23
LAS04A87	Oakey Boulevard System	Closed	\$111,106.72
LAS04B90	Oakey BI System	Closed	\$631,418.63
LAS04C91	Oakey BI System/Decatur BI Crossing	Closed	\$35,000.00
LAS04E94	Oakey Conveyance Phase II	Closed	\$1,083,848.86
LAS05A87	Meadows Detention Basin	Closed	\$120,000.00
LAS05B87	Meadows Detention Basin	Closed	\$3,432,123.00
LAS05C00	Meadows Detention Basin Expansion (Resol 00-2)	Closed	\$150,000.00
LAS05D01	Meadows Detention Basin Expansion (Resol 01-3)	Closed	\$3,422,258.00
LAS05H08	Alta Parallel System	Closed	\$8,165,350.58
LAS05I08	Oakey-Meadows Storm Drain, Phase I	Closed	\$12,686,286.59
LAS05J10	Oakey Meadows Storm Drain-Phase II	Closed	\$9,822,984.14
LAS06A87	Major Conveyance System West of I-15	Closed	\$229,005.59
LAS06B87	Major Conveyance System East of I-15	Closed	\$29,022.50
LAS06C93	Freeway Channel/Sahara - Ivanhoe	Closed	\$670,067.29
LAS07A89	Durango Storm Drain	Closed	\$596,059.22
LAS08A89	Carey Ave./Lake Mead Detention & Conveyance System	Closed	\$6,148,651.98
LAS09A89	Washington Ave. System	Closed	\$313,726.91
LAS09B91	Washington Ave. System/Sandhill-Bruce	Closed	\$497,000.00
LAS09D92	Washington Ave./Sandhill-Virgil	Closed	\$1,594,925.69
LAS09F93	Washington/Sagman-LV Creek Right-of-Way	Closed	\$245,428.78
LAS09G94	Washington Ave. / Lena-Eastern (LOMR)	Closed	\$4,643,824.92
LAS09H94	Upper Washington Channel & Freeway Channel	Closed	\$1,206,684.74
LAS09I96	Washington/Eastern-Sagman	Closed	\$3,078,027.28
LAS09J97	Freeway Channel System - Alta Drive to UPRR	Closed	\$13,839,202.95
LAS09K97	Upper Washington Avenue - Sagman to Bonanza	Closed	\$4,421,963.25
LAS09L98	Freeway Channel - Alta Dr to Sahara Avenue	Closed	\$2,778,531.48
LAS09M98	Freeway Channel North/ Washington Avenue - Vegas Drive	Closed	\$257,916.45
LAS09O99	Freeway Channel - Alta Dr to Sahara Ave & Bypass Facility	Closed	(\$5,613.65)
LAS09P00	Freeway Channel - Alta to Sahara & Bypass Facilities (CM)	Closed	\$2,280,263.22
LAS09R01	Las Vegas Creek Channel - Parallel System at Decatur Blvd (Resol 01-4)	Closed	\$247,000.00
LAS09U05	Las Vegas Creek Channel - Parallel System	Closed	\$5,628,281.00
LAS09V05	Oakey Drain, Birch Street to Cahlan Drive	Closed	\$851,548.86
LAS09W08	Oakey Drain, Birch Street to Cahlan Drive	Closed	\$6,500,607.90
LAS09Y09	Oakey Drain - Cahlan Dr to Barnard Dr	Closed	\$370,483.19
LAS10A91	Gowan North Channel	Closed	\$110,000.00
LAS10B93	CAM-10 & Lone Mtn. Detention Basins Predesign	Closed	\$212,800.00
LAS10C94	Lone Mtn. Detention Basin	Closed	\$905,972.72
LAS10D95	Gowan North Channel - Gowan North Detention Basin	Closed	\$904,292.71

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Pay-As-You-Go Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
LAS10E97	Gowan North Channel - Gowan Detention Basin to Buffalo	Closed	\$3,150,210.59
LAS10F97	Gowan Outfall Lone Mtn Branch - Ferrell St to Kenny Way	Closed	\$111,327.87
LAS10H98	Gowan North Buffalo Branch (Chnl) - Atwood to Lone Mtn Rd	Closed	\$285,859.78
LAS10J98	Gowan North Chnl-Alexander Dr to Lone Mtn Rd & LM Outfall	Closed	\$651,405.16
LAS10K99	CAM 10 Detention Basin (aka Ann Road DB)	Closed	\$682,577.04
LAS10L99	Gowan North-Buffalo Branch	Closed	\$162,106.81
LAS10M00	Gowan North - Buffalo Branch (Gowan Road & Buckskin Ave)	Closed	\$608,179.39
LAS10N00	Gowan Outfall, Lone Mountain Branch (Allen Lane-Ferrell)	Closed	\$1,545,053.54
LAS10P00	Gowan/Lone Mountain System - Gilmore Channel (CM)	Closed	\$8,492.19
LAS10Q01	Gowan/Lone Mountain System - Gilmore Channel (Developer Participation)	Closed	\$1,383,723.00
LAS10R00	Gowan North - Buffalo Branch (Cheyenne Avenue to Lone Mtn Road)	Closed	\$2,462,085.23
LAS10Y05	Gowan Lone Mountain System - Cliff Shadows Park	Closed	\$1,549,850.67
LAS11A92	Rampart Storm Drain (Angel Park-Peccole 1)	Closed	\$44,809.03
LAS11B93	Rampart Storm Drain Construction	Closed	\$185,842.34
LAS12A92	Alta Storm Drain (Meadows V)	Closed	\$851,465.76
LAS13A92	Cheyenne Channel / Buffalo - Gowan Design	Closed	\$86,475.85
LAS13B94	Cheyenne Channel Crossings Developer Participation	Closed	\$709,000.00
LAS13C93	Cheyenne Channel / Buffalo - Gowan	Closed	\$1,107,787.47
LAS14A95	Washington Avenue - I-15 to Martin Luther King	Closed	\$74,429.00
LAS14B00	Washington Avenue & Freeway Channel North	Closed	\$4,887,278.94
LAS14C11	Freeway Channel-Washington, MLK to Rancho Drive	Open	\$1,073,510.00
LAS15A95	Oakey Storm Drain - I-15 to Decatur Blvd	Closed	\$391,238.42
LAS16A98	Ann Road Channel West/ Allen Lane - Rancho Drive	Closed	\$657,583.31
LAS16B99	Rancho Road System/Centennial PKWY to Rancho DB	Closed	\$1,198,151.00
LAS16C99	Rancho Road System/Centennial PKWY to Rancho DB	Closed	\$17,697.53
LAS16G07	Rancho Detention Basin, Phase II	Closed	\$3,953,168.82
LAS16H07	Rancho Drive System - El Campo Grande Storm Drain	Closed	\$4,634,244.76
LAS16I09	Ann Rd Channel West - Rainbow Blvd	Closed	\$475,475.33
LAS16J09	Rancho System - Beltway to Elkhorn	Closed	\$927,245.27
LAS16L11	Rancho Road System - Elkhorn, Ft Apache to Grand Canyon	Closed	\$394,023.05
LAS16M12	Ann Road Channel West - Rainbow Boulevard	Closed	\$3,474,459.19
LAS16N13	Rancho System - Beltway to Elkhorn Road	Closed	\$8,681,088.21
LAS16O13	Rancho Rd System-Elkhorn, Fort Apache to Grand Canyon	Open	\$2,358,400.00
LAS16P15	Rancho Road System - Elkhorn, Grand Canyon to Hualapai	Open	\$654,000.00

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Pay-As-You-Go Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
LAS16Q18	Rancho Road System-Elkhorn, Grand Canyon to Hualapai	Open	\$5,125,760.00
LAS17A98	Las Vegas Wash/ Rancho Drive System (Peak Dr - Lake Mead)	Closed	\$419,095.42
LAS17D02	Las Vegas Wash - Rancho Drive System (Carey/Lake Mead DB to Peak Dr)	Closed	\$6,273,291.56
LAS17F07	Peak Drive System (Jones Blvd to Michael Way)	Closed	\$4,501,941.03
LAS18A98	Las Vegas Wsh/Smoke Ranch Sys: Peak Dr/Torrey Pines-Jones	Closed	\$147,617.92
LAS18B00	Las Vegas Wash - Smoke Ranch System (Peak Drive: Torrey Pines - Jones)	Closed	\$1,782,103.78
LAS19A99	Owens Avenue System: Rancho Drive to I-15	Closed	\$292,162.08
LAS19B01	Owens Avenue System (Rancho Drive to I-15)	Closed	\$4,430,278.94
LAS19D11	Vegas Dr Storm Drain - Rancho to Shadow Mountain	Closed	\$10,997,022.53
LAS20A00	Rancho Rd System: Durango to US-95 Interchange	Closed	\$448,364.70
LAS22B05	Las Vegas Wash - Jones Blvd, Elkhorn Rd to Farm Rd	Closed	\$92,244.72
LAS22C06	Las Vegas Wash - Elkhorn (Rainbow Blvd to Torrey Pines Drive)	Closed	\$274,272.89
LAS22D06	N & S Environ Enhancement Areas - Floyd Lamb Park	Closed	\$2,252,837.16
LAS22E06	Las Vegas Wash - Decatur Blvd (Centennial PKWY to Farm Road)	Closed	\$2,454,915.36
LAS22F07	Las Vegas Wash - Rainbow (Elkhorn Road to Grand Teton Drive)	Closed	\$951,355.17
LAS22G07	Elkhorn Springs and Buffalo Storm Drain	Closed	\$280,782.51
LAS22H07	Las Vegas Wash - Elkhorn Rd, Rainbow Blvd to Torrey Pines Dr	Closed	\$6,561,592.06
LAS22I08	Las Vegas Wash - Decatur Blvd (Elkhorn Rd to Farm Rd)	Closed	\$2,950,783.84
LAS22J08	Las Vegas Wash - Jones Blvd, Elkhorn to Farm	Closed	\$1,683,390.48
LAS22K08	LVW - Grand Teton, Mountain Spa to Durango Drive	Closed	\$850,522.21
LAS22L08	LVW - Grand Teton, Buffalo Drive to Durango Drive	Closed	\$172,513.02
LAS22R12	LVW-Grand Teton, Mountain Spa to Durango Drive	Closed	\$12,250,368.51
LAS22S13	Brent Drainage System-Floyd Lamb Park to Durango Drive	Open	\$533,365.00
LAS22T15	Brent Drainage System - Floyd Lamb Park to Durango Drive	Open	\$4,900,700.00
LAS23C08	Horse Drive Interchange	Closed	\$5,392,419.91
LAS23D13	Centennial Parkway Channel West - US95 Crossing	Closed	\$1,411,812.73
LAS23E13	Centennial Pkwy Channel West-CC 215, Pioneer Way to US95	Open	\$1,070,687.00
LAS23F14	Centennial Parkway Channel West-CC215, Pioneer Way to US95	Open	\$13,900,000.00
LAS23G15	Centennial Parkway Channel West-US95, CC215 to Durango	Open	\$1,261,471.00
LAS23H15	Centennial Parkway Channel West-US95, Durango to Grand Teton	Open	\$985,231.00

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Pay-As-You-Go Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
LAS23I17	Cent Pkwy Chnl West-US95, CC215 to Grand Teton, Kyle Cyn	Open	\$26,425,221.00
LAS24B06	Gowan North Channel - El Capitan Way to the Western Beltway	Closed	\$7,636,880.18
LAS24D06	Gowan Lone Mountain System - Branch 4	Closed	\$2,824,592.10
LAS24E07	Gowan Outfall - Lone Mountain Branch (Rancho Drive to Decatur Boulevard)	Closed	\$1,595,874.26
LAS24H13	Gowan North-Buffalo Branch,Lone Mtn to Washburn Rd	Open	\$992,000.00
LAS24I15	Gowan Box Canyon - Lone Mountain Road	Open	\$704,000.00
LAS24J15	Gowan North - El Capitan Branch, Lone Mountain to Ann Road	Open	\$785,478.00
LAS24K17	Gowan North-Buffalo Branch, Lone Mtn to Washburn Rd	Open	\$9,232,062.00
LAS24L17	Gowan North-El Capitan Branch, Ann Rd to Centennial Pkwy	Open	\$861,670.00
LAS24M17	Gowan North-El Capitan Branch, Lone Mtn to Ann Rd.	Open	\$9,630,600.00
LAS25B13	Cedar Avenue Channel Improvements	Open	\$831,489.00
LAS26A07	Grand Teton Overpass - Storm Drain	Closed	\$612,614.83
LAS26B08	Grand Teton Overpass - Storm Drain	Closed	\$1,936,755.45
LAS26C13	Grand Teton - Hualapai to Tee Pee	Closed	\$401,560.15
LAS27A09	Boulder HWY Sahara Ave - Mojave Rd to Boulder HWY	Closed	\$411,967.68
LAS28B11	Oakey Drain - Cahlan to Barnard	Closed	\$5,372,969.90
LAS28C12	Las Vegas Wash - Sloan Channel to Cedar Avenue	Open	\$110,000.00
LAS29A10	Flamingo Wash, Boulder Highway North-Main Street	Closed	\$346,572.69
LAS29B15	Flamingo-Boulder HWY N-Boulder HWY Sahara to Charleston	Open	\$1,726,003.00
LAS29C16	Flamingo-Bldr Hwy, N Charleston-Maryland Pkwy System	Open	\$2,488,829.00
LAS29D17	Flamingo-Boulder Hwy North, Charleston, Main to Maryland	Open	\$1,529,674.00
LAS29E18	Flamingo - Boulder Hwy North - Boulder Hwy, Sahara to Charleston	Open	\$26,115,786.00
LAS30A13	Gowan-Alexander Rd., Rancho Drive to Decatur Boulevard	Open	\$711,938.00
LAS31A17	LVW-Moccasin, Skye Canyon Park to Upper LVW	Open	\$60,000.00
LLD04A03	Holmby Channel	Closed	\$621,698.68
LLD04B07	Oakey Boulevard & Tenaya Way Storm Drain	Closed	\$574,017.45
LLD05A08	Jones Blvd - Alta to Borden Storm Drain	Closed	\$716,389.74
LLD08A11	Lexington Street Storm Drain	Closed	\$926,610.34
LLD09A04	Bruce Street Storm Drain	Closed	\$431,221.89
LLD10A05	Jay Avenue Improvements	Closed	\$548,443.62
LLD10B13	Buckskin Avenue Storm Drain	Open	\$1,200,000.00
LLD12A04	Brush Street Storm Drain	Closed	\$411,351.53
LLD13A02	Crystal Water Way, Lake South Dr to Desert Inn Rd	Closed	\$227,132.20
LLD18A02	Peak Drive, Rainbow Blvd to Torrey Pines Dr	Closed	\$371,781.85
LLD19A18	Luning Drive Storm Drain	Open	\$1,201,965.00

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Pay-As-You-Go Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
LLD99A09	Gilmore Ave - Decatur Blvd to Thom Blvd Storm Drain	Closed	\$410,867.01
			\$369,921,228.95

Mesquite

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
MES01A88	Town Wash Detention Basin (Right-of-Way)	Closed	\$9,600.50
MES01B89	Town Wash Detention Basin (Design & Construction)	Closed	\$660,000.00
MES01C02	Town Wash Conveyance, I-15 to Virgin River	Closed	\$977,665.86
MES01E17	Town Wash-Mesa Boulevard, El Dorado to Town Wash	Open	\$416,516.00
MES02A00	Abbott Wash Channel, I-15 to Virgin River	Closed	\$632,380.00
MES04A15	Virgin River Flood Wall	Open	\$1,433,903.00
			\$4,130,065.36

North Las Vegas

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
NLD14A15	Oak Island Drive Storm Drain	Open	\$497,750.00
NLV01A87	Las Vegas Wash/I-15 to Pecos (Facility Study)	Closed	\$304,000.00
NLV01B87	Las Vegas Wash/Craig-Civic Center (King Charles)	Closed	\$2,415,411.73
NLV01C00	Upper Las Vegas Wash	Closed	\$2,590,459.93
NLV01E07	Tropical Parkway Channel East	Closed	\$1,161,535.61
NLV01G11	Ann Road Channel East, ULVW to Fifth Street	Closed	\$960,970.98
NLV01H13	Las Vegas Wash - "N" Channel, Cheyenne to Gowan	Open	\$317,990.00
NLV01J15	Las Vegas Wash - "N" Channel, Cheyenne to Gowan	Closed	\$3,044,495.91
NLV02A87	W. Trib Las Vegas Wash/Craig -Alexander	Closed	\$1,268,170.85
NLV02B88	W. Trib Las Vegas Wash/Craig Ranch Golf Course-Craig	Closed	\$1,057,430.33
NLV03A88	West Range Wash Detention Basin (Facility Study)	Closed	\$273,068.12
NLV03B88	East Range Wash Detention Basin (Facility Study)	Closed	\$30,000.00
NLV03C91	West Range Wash Diversion Dike	Closed	\$339,338.71
NLV03E13	Hollywood System, Dunes South DB to Centennial Parkway	Open	\$2,706,972.00
NLV03F17	Range Wash - Ann Branch	Open	\$1,081,889.00
NLV03G17	Hollywood System, Centennial Pkwy-Speedway #2 DB	Open	\$1,586,850.00
NLV03H17	Hollywood System, Dunes S DB to Centennial Pkwy-Phase I	Open	\$14,469,000.00
NLV03I18	Range Wash - Ann Branch, Phase I	Open	\$2,668,000.00
NLV04A89	Gowan Outfall Structure	Closed	\$13,373,572.56
NLV04B00	Gowan Outfall, Craig to Channel	Closed	\$301,821.67
NLV04C01	Gowan Outfall, Craig to Channel	Closed	\$1,566,299.84
NLV04F07	Simmons Street Drainage Improvements - Carey to Craig	Closed	\$2,110,016.45
NLV04G07	Gowan Outfall - Lone Mountain Branch, Decatur Blvd to Channel	Closed	\$15,057,798.44
NLV04I11	Simmons Street - Phase II, Carey to Cheyenne	Closed	\$5,464,819.43

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Pay-As-You-Go Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
NLV04K17	Gowan Outfall, Alexander Rd - Decatur to Simmons Street	Open	\$1,931,156.00
NLV05A89	Upper Las Vegas Wash Detention Basin	Closed	\$1,342,892.36
NLV06A91	Kyle Detention Basin	Closed	\$601,126.71
NLV06B93	Kyle Detention Basin	Closed	\$8,452,713.96
NLV07A92	Camino Al Norte Culvert	Closed	\$86,191.00
NLV08A94	Lower Las Vegas Wash Detention Basin	Closed	\$2,650,037.50
NLV08B97	Lower Las Vegas Wash Detention Basin Construction	Closed	\$3,316,222.35
NLV09A94	Range Wash Chnl W Trib/Confl DB-LV Blvd. + Vandenberg DB	Closed	\$2,299,092.06
NLV09C03	Range Wash - Lamb Blvd Storm Drain	Closed	\$337,143.54
NLV09D07	Range Wash - Lamb Blvd Storm Drain	Closed	\$5,733,340.83
NLV09E11	Vandenberg North Detention Basin & Outfall	Open	\$1,268,000.00
NLV09F13	Beltway Detention Basin and Channel	Closed	\$0.00
NLV09G13	Centennial Collector	Closed	\$50,086.74
NLV09I13	Beltway Detention Basin and Channel	Open	\$1,334,000.00
NLV10A97	A - Channel/Lake Mead Blvd. - Alexander Road	Closed	\$1,822,067.69
NLV10B99	Cheyenne Peaking Basin	Closed	\$3,445,309.49
NLV10F02	Las Vegas Wash Main Branch, Cheyenne Avenue to Lake Mead Boulevard	Closed	\$353,900.87
NLV10H07	Las Vegas Wash - Lake Mead Blvd to Las Vegas Blvd	Closed	\$2,069,215.34
NLV10I09	Las Vegas Wash - Las Vegas Blvd to Cheyenne Ave	Closed	\$697,124.80
NLV10K11	LVW - LV Blvd to Cheyenne Avenue	Closed	\$6,382,656.86
NLV11A97	W. Trib Las Vegas Wash (Camino Al Norte to Ann Rd)	Closed	\$1,494,634.14
NLV11B97	W. Trib Las Vegas Wash, Ph II (Ann Rd to Centennial PKWY)	Closed	\$2,154,439.86
NLV12A97	Clayton Channel- WTLVW >Centennial PKWY> Allen Ln	Closed	\$40,408.90
NLV13A98	Tributary to the Western Tributary @ Craig Rd	Closed	\$801,419.92
NLV13B02	Tributary to the Western Tributary at Craig Road	Closed	\$5,443,730.21
NLV14A00	Tributary to the Western Tributary @ Alexander Rd	Closed	\$735,930.14
NLV15A00	Las Vegas Wash - Losee Project	Closed	\$87,613.81
NLV16A00	Simmons Street Channel	Closed	\$1,013,785.70
NLV17A00	Centennial Parkway Channel East	Closed	\$2,486,927.42
NLV17B08	Centennial Parkway Channel East	Closed	\$19,334,832.52
NLV17C16	Fifth Street Collector, Centennial Pkwy to Deer Springs Way	Open	\$726,079.00
NLV17D18	Fifth St Collector, Centennial Pkwy to Deer Spgs Way	Open	\$5,124,000.00
NLV18A07	Colton Channel	Closed	\$1,175,047.77
NLV18B07	Brooks Channel	Open	\$595,749.00
NLV18C07	Freeway Channel - Owens Avenue to Miller Avenue	Closed	\$1,528,308.05
NLV18D09	Freeway Channel - Owens Ave to Miller Ave, Phase I	Closed	\$4,389,989.00
NLV18E11	Freeway Channel - Owens Ave to Miller Avenue - Phase II	Closed	\$6,441,348.71

**Regional Flood Control District
 Capital Improvement Projects - Cumulative Reporting
 Pay-As-You-Go Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
NLV18F13	Central Freeway Channel At Cheyenne	Open	\$772,549.00
NLV18H14	Brooks Channel	Open	\$4,726,000.00
NLV18I16	Central Freeway Channel at Cheyenne	Open	\$11,300,000.00
			<u>\$189,192,732.81</u>
		Grand Total	<u><u>\$1,096,420,477.92</u></u>

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Bond Funding**

Boulder City

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
BOU01A87	Hemenway Wash	Closed	\$867,000.00
BOU04D02	West Airport Facilities	Closed	\$568,602.56
BOU04E03	Valley View, Red Mountain and DD Facilities	Closed	\$76,468.23
BOU04F05	Valley View and DD Facilities	Closed	\$632,017.12
BOU05D04	Veterans Memorial Detention Basin	Closed	\$3,236,343.92
BOU05E04	Yucca Debris Basin, Collection & Outfall	Closed	\$69,028.25
BOU05F04	Bootleg Canyon Facilities	Closed	\$365,646.88
BOU05I10	Yucca Debris Basin, Collection and Outfall	Closed	\$1,189,960.47
			\$7,005,067.43

Clark County

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
CLA02F92	Rawhide Channel Improv/McLeod-Mtn Vista	Closed	\$2,678,784.24
CLA03E92	Van Buskirk Channel/ Phase III Construction	Closed	\$884,145.27
CLA03F92	Van Buskirk Channel/Phase V/Harmon-Harrison & Tropicana	Closed	\$1,318,316.18
CLA03G92	Van Buskirk Channel / Phase IV	Closed	\$949,302.79
CLA03H93	Van Buskirk Channel / Phases IIA & VI Construction	Closed	\$7,076,269.80
CLA04J03	Flamingo Wash, Algonquin Dr to Maryland Parkway	Closed	\$3,708,620.21
CLA04K03	Flamingo Wash, I-515 to Boulder Highway	Closed	\$4,358,838.58
CLA04L03	Lower Flamingo Detention Basin	Closed	\$1,078,896.68
CLA04T09	Lower Flamingo Detention Basin	Closed	\$3,387,621.44
CLA04W16	Flamingo Wash, Eastern Avenue	Open	\$1,420,000.00
CLA06B93	Range Wash Confluence DB ROW & Construction	Closed	\$9,575,705.90
CLA07C03	Sloan Channel, Las Vegas Wash to Charleston	Closed	\$11,371,793.05
CLA08C98	Lower Duck Creek Detention Basin & Outfall Channel	Closed	\$12,823,423.07
CLA08T14	Duck Creek, Las Vegas Boulevard	Open	\$7,400,000.00
CLA09B99	Durango Collector (Twain to Hacienda)	Closed	\$9,485,138.68
CLA10B99	Tropicana Wash, Paradise Road to Koval Lane	Closed	\$2,087,199.75
CLA10C03	Tropicana North Branch Detention Basin	Closed	\$3,763,800.00
CLA10E09	Tropicana North Branch Detention Basin	Closed	\$950,229.12
CLA12C99	Desert Inn Detention Basin & Collection System	Closed	\$5,327,982.96
CLA13C98	Lakes DB Collection System	Closed	\$17,986,141.42
CLA14B99	Duck Creek Channel (Hollywood Blvd to Stephaine St)--ROWA	Closed	\$1,598,918.50
CLA14M03	Duck Creek, Broadbent Blvd Bridge and Channel	Closed	\$2,176,640.38
CLA14N03	Duck Creek, Broadbent Blvd to Boulder Highway	Closed	\$5,832,117.22
CLA14P03	Duck Creek, Eldorado Lane to Spencer Street	Closed	\$343,994.59
CLA14Q04	Duck Creek, Topaz Street to Eastern Avenue	Closed	\$2,119,552.08
CLA14W11	Duck Creek, Robindale to I-215	Closed	\$650,561.15
CLA15B99	Colorado Avenue Storm Drain System	Closed	\$15,259,421.39
CLA15E13	LVW-Sloan to Stewart-Flam Wash below Nellis	Open	\$84,184,000.00
CLA15F16	Las Vegas Wash - Water Reclamation Channel	Open	\$3,400,000.00

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Bond Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
CLA16L09	Lower Blue Diamond Detention Basin	Closed	\$2,581,701.25
CLA16M09	Blue Diamond Wash Wigwam, UPRR to Rainbow Blvd	Closed	\$5,067,171.04
CLA16N09	Blue Diamond Wash Wigwam, UPRR to Jones Blvd	Closed	\$0.00
CLA17A98	Blue Diamond Chnl/Durango Dr - Rainbow Blvd (Beltway 7B)	Closed	\$1,021,760.73
CLA17D04	Blue Diamond Channel - Jones Branch	Closed	\$641,602.04
CLA18A98	Red Rock Channel/Russell Rd - Hualapai Way	Closed	\$1,793,162.82
CLA19D03	Red Rock Channel, Naples Branch	Closed	\$9,885,005.24
CLA26D11	Flamingo Diversion-South Buffalo Branch, Flamingo Wash to Sunset Rd	Closed	\$7,030,263.37
CLA27D13	Flamingo Diversion - Rainbow Branch	Closed	\$9,654,169.07
			<u>\$260,872,250.01</u>

Clark County Outlying

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
IND01B04	Indian Springs Detention Basin	Closed	\$2,650,794.34
LAU01B92	Unnamed Wash, Laughlin	Closed	\$2,577,722.08
LAU02C94	Hiko Springs, Laughlin	Closed	\$1,200,000.00
LAU04B17	SR 163 at Casino Drive	Open	\$2,000,000.00
			<u>\$8,428,516.42</u>

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Bond Funding**

Henderson

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
HEN01D91	Pittman Wash Channel - Phase II Construction	Closed	\$2,071,148.80
HEN01E93	Pittman Wash Channel Phase IIIA Construction	Closed	\$776,682.83
HEN03B92	UPRR Channel Construction	Closed	\$2,149,477.47
HEN04C93	Mission Hills System Construction	Closed	\$5,503,671.37
HEN04D94	C-1 Channel / Lake Mead Dr. - Burkholder	Closed	\$3,398,432.50
HEN04E96	Mission Hills Western Interceptor Diversion	Closed	\$2,100,000.00
HEN04J99	Black Mountain Detention Basin & Outfall	Closed	\$5,233,184.00
HEN04L01	C-1 Chnl, Mdl & Upr Reaches-PhI: Burkholder - Boulder HWY	Closed	\$4,784,787.10
HEN04M03	C-1 Channel, Upper & Middle Reaches - Vermillion Dr - Boulder HWY	Closed	\$3,689,653.67
HEN05B98	Pioneer DB Outfall	Closed	\$2,952,988.96
HEN05F12	Pioneer Detention Basin Expansion and Inflow	Closed	\$1,330,852.11
HEN05G16	Horizon Ridge Detention Basin	Open	\$7,506,000.00
HEN06J13	Equestrian Detention Basin Expansion	Closed	\$1,025,764.52
HEN06K13	Equestrian Tributary, Phase II	Closed	\$2,147,066.76
HEN07C11	Pittman Park Peaking Basin Modification	Closed	\$0.00
HEN12D03	Pittman Wash - Burns	Closed	\$257,326.75
HEN12E05	Gibson Conveyance System	Closed	\$2,164,571.54
HEN12J16	Palm Hills Channel	Closed	\$1,880,256.03
HEN13B03	Boulder Highway Channel	Closed	\$6,534,523.99
HEN15B02	Pittman Wash Railroad Channel, Phase I (Resol. No. 02-6)	Closed	\$1,989,679.32
HEN15C04	Pittman Wash Railroad Channel, US-95 to Major Avenue	Closed	\$5,537,919.81
HEN18A03	Drake Channel	Closed	\$75,265.32
HEN19A03	Northeast Detention Basin and Levee	Closed	\$1,134,804.61
HEN20B04	C-1 Channel, US-95 Tributary 1	Closed	\$1,522,849.50
HEN23B16	Center Street Storm Drain	Open	\$9,731,435.15
HLD06A15	Appaloosa Storm Drain, Local Drainage Project	Open	\$925,834.35
			\$76,424,176.46

Las Vegas

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
LAS01E13	Angel Park Detention Basin Expansion	Closed	\$4,085,640.34
LAS02E92	Buffalo Channel/Summerlin Pkwy-Vegas Dr.	Closed	\$1,911,377.65
LAS03C91	Gowan Detention Basin	Closed	\$7,184,517.75
LAS04D92	Oakey Detention Basin & Conveyance	Closed	\$6,887,121.59
LAS05E03	Oakey - Meadows Storm Drain	Closed	\$5,221,885.40
LAS05F03	Alta Parallel System	Closed	\$2,093,934.39
LAS05K15	Oakey-Meadows Storm Drain, Phase III	Closed	\$24,265,142.63
LAS09C91	Washington Ave./Sandhill Outlet	Closed	\$1,496,312.93
LAS09E93	Washington Ave. / Virgil-Lena	Closed	\$2,862,675.33
LAS09N99	Upr Wash Ave Conv Sys, Ph II: Veterans Memorial Dr - UPRR	Closed	\$6,279,449.66
LAS09O99	Freeway Channel - Alta Dr to Sahara Ave & Bypass Facility	Closed	\$36,285,968.75

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Bond Funding**

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
LAS09T04	Freeway Channel, Charleston Lateral	Closed	\$4,336,897.56
LAS10C94	Lone Mtn. Detention Basin	Closed	\$315,482.25
LAS10I98	Gowan North Channel, Ph II/Durango Dr	Closed	\$5,455,374.03
LAS10T02	Gowan North System - Ph III: Alexander Rd to Lone Mtn Rd	Closed	\$7,539,040.96
LAS10V03	GNC - Lone Mountain Road (El Capitan Way to the Western Beltway)	Closed	\$634,984.37
LAS10W04	Lone Mountain System, Lone Mtn DB Outfall to Durango	Closed	\$2,734,160.02
LAS10X05	Ann Road Detention Basin Facilities (CAM 10 DB)	Closed	\$9,317,720.04
LAS14D14	Freeway Channel-Washington, MLK to Rancho Drive	Open	\$11,405,343.00
LAS16D01	Ann Road, Allen Lane to Rancho Drive	Closed	\$7,069,867.82
LAS16E04	Rancho Detention Basin, Phase II	Closed	\$464,510.86
LAS16F04	Rancho Road System (El Campo Grande Storm Drain)	Closed	\$573,652.99
LAS17E03	Peak Drive System (Jones Blvd to Michael Way)	Closed	\$456,338.90
LAS19C05	Owens Avenue System (Vegas Dr Storm Drain) - Michael Way to Rancho Drive	Closed	\$1,596,671.67
LAS21A03	Upper Las Vegas Wash Facility Study	Closed	\$243,392.60
LAS22A03	Decatur/Elkhorn/Rainbow System Predesign	Closed	\$368,594.70
LAS22M09	Las Vegas Wash - Rainbow (Elkhorn Rd to Grand Teton Dr)	Closed	\$7,696,565.04
LAS22N09	Las Vegas Wash - Decatur & Elkhorn, CC 215	Closed	\$25,788,320.03
LAS22O09	N & S Environ Enhancement Areas - Floyd Lamb Park	Closed	\$25,314,907.94
LAS22P09	Elkhorn Springs & Buffalo Storm Drain	Closed	\$1,567,520.54
LAS24F10	Gowan Outfall - Lone Mountain Branch (Rancho to Decatur)	Closed	\$10,109,824.95
LAS26D14	Grand Teton - Hualapai to Tee Pee	Closed	\$6,245,247.37
LAS28A10	Langtry Channel Bonanza to Washington Avenue	Closed	\$1,002,676.43
			\$228,811,120.49

Mesquite

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
MES01B89	Town Wash Detention Basin (Design & Construction)	Closed	\$3,692,545.65
MES01D10	Town Wash Conveyance, I-15 to the Virgin River	Closed	\$7,366,966.99
MES02B03	Abbott Wash Conveyance System, Pioneer Blvd to the Virgin River	Closed	\$10,625,472.16
			\$21,684,984.80

**Regional Flood Control District
Capital Improvement Projects - Cumulative Reporting
Bond Funding**

North Las Vegas

<u>PROJECT</u>	<u>NAME</u>	<u>STATUS</u>	<u>TOTAL</u>
NLV01D03	Upper Las Vegas Wash	Closed	\$31,132,709.75
NLV01F09	Tropical Parkway Channel East	Closed	\$5,900,026.83
NLV01I14	Ann Road Channel East, ULVW to Fifth Street	Closed	\$5,580,349.42
NLV03D93	West Range Wash Diversion Dike	Closed	\$2,251,608.79
NLV04D04	Gowan Outfall - Lone Mountain Branch, Decatur Blvd to Channel	Closed	\$1,179,589.48
NLV04H09	Simmons Street Drainage Improvements - Gowan Outfall	Closed	\$2,280,988.68
NLV04J14	Simmons Street Drainage Impvments-Alexander to Gowan Outfall	Closed	\$14,878,224.09
NLV05B92	Upper Las Vegas Wash Detention Basin Construction	Closed	\$8,010,318.87
NLV06B93	Kyle Detention Basin	Closed	\$5,037,000.00
NLV08B97	Lower Las Vegas Wash Detention Basin Construction	Closed	\$4,433,240.98
NLV09B99	Vandenberg Detention Basin	Closed	\$5,347,006.76
NLV09H14	Centennial Collector	Closed	\$2,256,922.92
NLV10E03	"A" Channel Three Bridges Project (Cheyenne Ave, Las Vegas Blvd, and Carey Ave)	Closed	\$9,966,315.63
NLV10G03	Cheyenne Peaking Basin, Collection & Outfall - Alexander Rd to Cheyenne Ave	Closed	\$15,482,525.64
NLV10J10	LV Wash Main Branch-LV Blvd. to Lake Mead Blvd.	Closed	\$21,161,048.84
NLV11C98	W. Trib Las Vegas Wash Chnl, Ph I (Ann Rd - Clayton St)	Closed	\$7,898,144.87
NLV11D99	W. Trib Las Vegas Wash, Ph III (LLVWDB to Camino Al Norte)	Closed	\$2,499,963.56
NLV11E99	W. Trib of the Las Vegas Wash, Ph II (Ann to Centennial)	Closed	\$7,772,320.98
NLV14B03	Tributary to the Western Tributary @ Alexander Rd	Closed	\$7,636,332.88
NLV15B03	Las Vegas Wash - Losee Road	Closed	\$1,142,595.43
NLV16B03	Simmons Street Channel	Closed	\$4,885,102.93
NLV18G14	Colton Avenue Flood Control Improvements	Closed	\$6,811,918.64
			<u>\$173,544,255.97</u>
	Grand Total		<u><u>\$776,770,371.58</u></u>

FY 2018-19 PROJECTS FUNDED SUMMARY

Facility Description	Project Number	Project Scope (1)	Year-1 Programmed (2)	Year-2/Year-3 Programmed (2)/(3)	Funding Amount (4)	Approval Date	Item #
HENDERSON (Southeast Las Vegas Valley)							
Anthem Parkway Channel - Horizon Ridge to Sienna Heights		Construction	0.00	933,046.00			
Whitney Wash Channel Replacement Project	HEN07F18	Design	448,800.00	0.00	448,800.00	8/9/2018	12
Whitney Wash Channel		Construction	0.00	7,810,235.00			
Pittman North DB & Outfall, Phase II - Starr Avenue Closeout	HEN16E15	Construction	(135,184.69)	0.00	(135,184.69)	8/9/2018	7
		Henderson Total	\$313,615.31	\$8,743,281.00	\$313,615.31		
HENDERSON 3-YEAR TOTALS:		PROJECTS PROGRAMMED	\$9,056,896.31				
		ESTIMATED RESOURCES	\$11,788,651.00				
		REMAINING RESOURCES	\$11,475,035.69				

Facility Description	Project Number	Project Scope (1)	Year-1 Programmed (2)	Year-2/Year-3 Programmed (2)/(3)	Funding Amount (4)	Approval Date	Item #
LAS VEGAS (Central Las Vegas Valley)							
Flamingo - Boulder Highway North, Charleston - Main to Maryland Parkway		Construction	0.00	4,916,089.00			
Flamingo - Boulder Highway North - Boulder Hwy., Sahara to Charleston	LAS29E18	Construction	0.00	26,115,786.00	26,115,786.00	10/11/2018	17b
Flamingo - Boulder Hwy. North, Charleston - Boulder Hwy. to Maryland Parkway and Maryland Pkwy. System		Construction	0.00	25,732,897.00			
Gowan Outfall - Alexander Rd., Decatur Blvd. to Simmons Street		Construction	0.00	32,001,616.00			
Gowan Outfall - El Capitan Branch, Ann Road to Centennial		Construction	0.00	8,243,755.00			
Gowan - Alexander Rd., Rancho to Decatur		Construction	0.00	12,172,711.00			
LVW - Moccasin, Skye Canyon Park to Upper LVW	LAS31B18	Construction	0.00	15,393,582.00	15,393,582.00	11/8/2018	
Simmons Street Drainage Improvements - Carey to Craig - Amended Closeout	NLV04F07	Design	6,455.00	0.00	6,455.00	9/13/2018	7
Rancho Road System - Eikhorn, Grand Canyon to Hualapai - Second Supplemental		Design	100,000.00	0.00	100,000.00	8/9/2018	13
		Las Vegas Total	\$106,455.00	\$124,576,436.00	\$41,615,823.00		
LAS VEGAS 3-YEAR TOTALS:		PROJECTS PROGRAMMED	\$124,682,891.00				
		ESTIMATED RESOURCES	\$127,209,468.00				
		REMAINING RESOURCES	\$85,593,645.00				

Facility Description	Project Number	Project Scope (1)	Year-1 Programmed (2)	Year-2/Year-3 Programmed (2)/(3)	Funding Amount (4)	Approval Date	Item #
NORTH LAS VEGAS (Northern Las Vegas Valley)							
Fifth Street Collector - Centennial Parkway to Deer Springs Way	NLV17D18	Construction	0.00	5,124,000.00	5,124,000.00	9/13/2018	15b
Orchard Collector - Charleston to Linden		Construction	3,210,000.00	0.00			
Owens Detention Basin & Outfall		ROW	0.00	595,440.00			
Range Wash - Alto Conveyance, Confluence DB to Los Feliz		Design	323,490.00	0.00			
Range Wash - Alto Conveyance, Confluence DB to Los Feliz		ROW	0.00	465,825.00			
Range Wash - Beltway Conveyance		Design	174,789.00	0.00			
Range Wash - Beltway Conveyance		ROW	233,051.00	0.00			
Range Wash - Beltway Conveyance		Construction	0.00	2,446,643.00			
Vandenberg North Detention Basin, Collection & Outfall		Construction	0.00	24,758,255.00			
Beltway Collection System - Pecos		Design	486,425.00	0.00			
Beltway Collection System - Pecos		Construction	0.00	6,808,831.00			
Hollywood System, Dunes South Detention Basin to Centennial Parkway - Phase I - 1st Supplemental	NLV03H17	Construction	(1,360,000.00)	0.00	(1,360,000.00)	11/8/2018	
Hollywood System, Dunes South Detention Basin to Centennial Pkwy. - Phase 2		Construction	15,361,413.00	0.00			
Range Wash - Ann Branch, Phase 2		Construction	0.00	9,998,188.00			
Hollywood System, Centennial Pkwy. to Speedway #2 Detention Basin - 2nd Supplemental	NLV03G17	Design	689,380.00	0.00	689,380.00	10/11/2018	16
Hollywood System, Centennial Pkwy. to Speedway #2 Detention Basin		Construction	0.00	5,799,754.00			
		North Las Vegas Total	\$19,118,548.00	\$55,996,936.00	\$4,453,380.00		
NORTH LAS VEGAS 3-YEAR TOTALS:		PROJECTS PROGRAMMED	\$75,115,484.00				
		ESTIMATED RESOURCES	\$82,890,222.00				
		REMAINING RESOURCES	\$78,436,842.00				

Facility Description	Project Number	Project Scope (1)	Year-1 Programmed (2)	Year-2/Year-3 Programmed (2)/(3)	Funding Amount (4)	Approval Date	Item #
CLARK COUNTY (Southwest Las Vegas Valley and Outlying Areas)							
Airport Channel - Naples		Construction	9,549,217.00	0.00			
Flamingo Wash - Industrial Road to Hotel Rio Drive		Construction	1,400,000.00	0.00			
Wagon Trail Channel - Sunset to Teco		Design	130,207.00	0.00			
Wagon Trail Channel - Sunset to Teco		ROW	173,609.00	0.00			
Wagon Trail Channel - Sunset to Teco		Construction	0.00	1,769,508.00			
Flamingo Wash, Maryland to Palos Verde		Design	199,149.00	0.00			
Flamingo Wash, Maryland to Palos Verde		Construction	0.00	2,706,430.00			
Tropicana Avenue Conveyance - Las Vegas Wash to Boulder Hwy.		Design	670,000.00	0.00			
Tropicana Avenue Conveyance - Las Vegas Wash to Boulder Hwy.		Construction	0.00	18,925,790.00			
Blue Diamond Wash - Arville to I-15		Design	372,390.00	0.00			
Blue Diamond Wash - Arville to I-15		Construction	0.00	5,060,784.00			
Duck Cr./Blue Diamond, Bermuda to Las Vegas Blvd.		Design	374,780.00	0.00			
Duck Cr./Blue Diamond, Bermuda to Las Vegas Blvd.		ROW	499,707.00	0.00			
Duck Cr./Blue Diamond, Bermuda to Las Vegas Blvd.		Construction	0.00	5,246,061.00			
Duck Creek Jones Boulevard		Construction	2,243,302.00	0.00			
Silverado Ranch Detention Basin and Outfall Facilities		Construction	0.00	23,554,540.00			
Blue Diamond Channel 02, Decatur - Le Baron to Richmar		Construction	3,500,000.00	0.00			
Blue Diamond Wash Railroad		ROW	352,286.00	0.00			

FY 2018-19 PROJECTS FUNDED SUMMARY

Facility Description	Project Number	Project Scope (1)	Year-1 Programmed (2)	Year-2/Year-3 Programmed (2)/(3)	Funding Amount (4)	Approval Date	Item #
CLARK COUNTY (Southwest Las Vegas Valley and Outlying Areas) - Continued							
Duck Creek Wash Tributary 4 - Detention Basin to Jones		Design	379,757.00	0.00			
Duck Creek Wash Tributary 4 - Detention Basin to Jones		Construction	0.00	5,315,718.00			
Duck Creek, Sunset Park		Design	1,020,882.00	0.00			
Duck Creek Wash, Torrey Pines to Rainbow		Construction	600,000.00	0.00			
Duck Creek Haven Street		Construction	4,146,462.00	0.00			
Tropicana Wash at Swenson Street - Amended Closeout	CLA10G12	Construction	(2,042.55)	0.00	(2,042.55)	10/11/2018	07b
Red Rock Channel, Naples Branch - Amended Closeout	CLA19D03	Construction	(231.56)	0.00	(231.56)	10/11/2018	07a
Flamingo Diversin - Rainbow Branch - Amended Closeout	CLA27D13	Construction	(24,376.40)	0.00	(24,376.40)	10/11/2018	07c
SR 163 at Casino Drive - 1st Supplemental	LAU04B17	Construction	848,000.00	0.00	848,000.00	10/11/2018	15
Goodsprings - Phase I		ROW	68,939.00	0.00			
Goodsprings - Phase I		Construction	0.00	919,494.00			
Fairgrounds - Detention Basin (Whipple Street)		Construction	10,405,257.00	0.00			
Clark County Total			\$36,907,293.49	\$63,498,325.00	\$821,349.49		
CLARK COUNTY 3-YEAR TOTALS:		PROJECTS PROGRAMMED	\$100,405,618.49				
		ESTIMATED RESOURCES	\$120,790,934.00				
		REMAINING RESOURCES	\$119,969,584.51				

CITY OF MESQUITE							
Town Wash - Mesa Boulevard, El Dorado to Town Wash		Construction	0.00	5,142,665.00			
Town Wash - Mesa Boulevard, El Dorado to Town Wash - 1st Supplemental	MES01E17	Design	50,000.00	0.00	50,000.00	7/12/2018	11
Town Wash - Mesa Boulevard, El Dorado to Town Wash - 2nd Supplemental	MES01E17	Design	26,213.00	0.00	26,213.00	9/13/2018	13
Virgin River Flood Wall		Construction	0.00	8,560,000.00			
City of Mesquite Total			\$76,213.00	\$13,702,665.00	\$76,213.00		
MESQUITE 3-YEAR TOTALS:		PROJECTS PROGRAMMED	\$13,778,878.00				
		ESTIMATED RESOURCES	\$10,395,893.00				
		REMAINING RESOURCES	\$10,319,680.00				

BOULDER CITY							
Hemenway System, Phase IIB Improvements		Construction	0.00	729,416.00			
Boulder City Total			\$0.00	\$729,416.00	\$0.00		
BOULDER CITY 3-YEAR TOTALS:		PROJECTS PROGRAMMED	\$729,416.00				
		ESTIMATED RESOURCES	\$4,776,677.00				
		REMAINING RESOURCES	\$4,776,677.00				

SUMMARY	
TOTAL 3-YEAR PROJECTS PROGRAMMED⁽²⁾	
\$323,769,183.80	
TOTAL ESTIMATED RESOURCES (Year-1)	
\$76,622,748.00	
TOTAL REMAINING DESIGN PROJECTS (Year-1)	
\$4,131,869.00	
TOTAL PROJECTS FUNDED (Year-1)	
\$47,280,380.80	
CURRENT AVAILABLE CONSTRUCTION RESOURCES (Year-1)	
\$25,210,498.20	

LOCAL DRAINAGE (5)							
Luning Drive Storm Drain	LLD19A18	Construction	1,201,965.00	0.00	1,201,965.00	7/12/2018	12
Local Drainage Total			\$1,201,965.00	\$0.00	\$1,201,965.00		

- Notes:
- (1) Construction typically includes Construction and/or Construction Administration. Design typically includes Predesign, Design, Right-of-way, Environmental, and/or Other.
 - (2) Includes amendments to the Ten-Year Construction Program.
 - (3) Year-2/Year-3 do not include design projects. Design projects are not eligible for acceleration.
 - (4) Action is being taken in current month on projects in bold/italics.
 - (5) Local Drainage projects are not part of the Ten-Year Construction Program.

ESTIMATED FUNDING SCHEDULE

Month-Year	Funding Requests Received			Estimated Resources for CIP		Priority Date	Notes
	Facility Description	Project #	Amount	Resources (1)	Available (1)		
	FISCAL YEAR 2018-19						
Nov-18	ESTIMATED REMAINING FISCAL YEAR CIP RESOURCES				\$15,888,214		
	LVW - Moccasin, Skye Canyon Park to Upper LVW	LAS31B18	\$15,393,582		\$494,632		
	Hollywood System, Dunes South Detention Basin to Centennial Parkway - Phase I - 1st Supplemental	NLV03H17	-\$1,360,000		\$1,854,632		
	No Projects Awaiting Funding		\$ -				

Notes: (1) Estimated CIP resources are from the FY2018-19 Ten-Year Construction Program and may be adjusted for current economic conditions

ENTITY: Clark County Regional Flood Control District

QUARTER ENDING: 30-Sep-18

DATE PREPARED: 9-Oct-18

QUESTIONS REGARDING ECONOMIC CONDITIONS

- | Yes | No | Since the last filing: |
|--|--------------------------|---|
| 1. * Clark County <input type="checkbox"/> | <input type="checkbox"/> | Has any employer that accounts for 15 % or more of the employment in the area closed or significantly reduced operations since the previous report? If yes, please provide details on page 2. |
| 2. * Clark County <input type="checkbox"/> | <input type="checkbox"/> | Has your entity experienced a cumulative increase or decrease of 10% or more in population or assessed valuation in the past two years? If yes, please provide details on page 2. |
| 3. * Clark County <input type="checkbox"/> | <input type="checkbox"/> | Has there been any significant event(s) in the region which could affect your entity positively? If yes, please provide details on page 2. |
| 4. * Clark County <input type="checkbox"/> | <input type="checkbox"/> | Has there been any significant event(s) in the region which could affect your entity negatively? If yes, please provide details on page 2. |
| 5. * Clark County <input type="checkbox"/> | <input type="checkbox"/> | Has anything significant occurred which could affect your expected level of revenues? If yes, please provide details on page 2. |
- * See page 2, Questions 1 - 5

QUESTIONS REGARDING OPERATIONS

- | | | |
|-------------------------------------|-------------------------------------|---|
| 6. CCRFCD <input type="checkbox"/> | <input checked="" type="checkbox"/> | Has the ending fund balance in your general (principal operating) fund had an unexplained, unbudgeted, or unanticipated decline for the past two fiscal years? If yes, please provide details on page 2. |
| 7. CCRFCD <input type="checkbox"/> | <input checked="" type="checkbox"/> | Has the entity entered into any new debt arrangements since the previous report? If yes, please provide details on page 2. |
| 8. CCRFCD <input type="checkbox"/> | <input checked="" type="checkbox"/> | Has the entity borrowed money to pay for current operations? If yes, please provide details on page 2. |
| 9. CCRFCD <input type="checkbox"/> | <input checked="" type="checkbox"/> | Has the entity made an interfund loan(s) to pay for current operations? If yes, please provide details on page 2. |
| 10. CCRFCD <input type="checkbox"/> | <input checked="" type="checkbox"/> | Has the entity failed to pay timely any contributions to governmental agencies for the benefits of its employees, (for example, PERS, Workmen's Comp or Federal taxes)? If yes, please provide details on page 2. |
| 11. CCRFCD <input type="checkbox"/> | <input checked="" type="checkbox"/> | Has the entity failed to make timely payments for debt service, to vendors or others? If yes, please provide details on page 2. |
| 12. CCRFCD <input type="checkbox"/> | <input checked="" type="checkbox"/> | Has the entity augmented the appropriated expenses for any proprietary fund since the previous report? If yes, please provide details on page 2. |

13. Cash and cash equivalents (unaudited) as of quarter ending 06/30/2018:
(Enterprise Fund(s) Only)

(CCRFCD)	<u>Prior Year</u>	<u>Current Year</u>
	N/A	N/A

14. General Fund Ending Balance (unaudited) as of quarter ending 06/30/2018:

(CCRFCD)	<u>Prior Year</u>	<u>Current Year</u>
	\$11,083,247.78	\$9,293,406.72

15. Cash and cash equivalents (unaudited) as of quarter ending 06/30/2018:
(General Fund Only)

(CCRFCD)	<u>Prior Year</u>	<u>Current Year</u>
	\$11,236,473.34	\$9,372,191.34

QUARTERLY ECONOMIC SURVEY
 DETAILS OF POSITIVE RESPONSES TO QUESTIONS ON PAGE 1

1-5 (Clark County) **Question 1**
 * - Question 1 through Question 5, data not available from Clark County as of the date of this report.

(Clark County) **Question 2**

	CLARK COUNTY	Population	Assessed Value
	FY 2017 (Actual)	-	-
	FY 2018 (Estimate)	-	-
	FY 2019 (Budget)	-	-
	Cumulative Increases/Decreases	-	-

(Clark County) **Question 3**

(Clark County) **Question 4**

(Clark County) **Question 5**

6. (CCRFCD)

7. (CCRFCD)

Date	Type	Amount

8. (CCRFCD)

Date	Lender	Amount \$

9. (CCRFCD)

Date	From Fund	To Fund	Amount \$

10-11. (CCRFCD)

12. (CCRFCD)

Date	Fund	Amount \$

13-15. (CCRFCD)
 Regarding our operations fund balance, there are inherent timing differences between the receipt of resources, payment of expenditures and transfers of resources to other funds. The current (FY 2018-19) fund balance and cash represented on lines 14 & 15 (page 1) of this report, is in line with 8% to 10% of our budgeted operational obligations. The District maintains sufficient fund balance to support operational obligations such as debt services, maintenance work and capital improvements to ensure that all commitments can be made on a timely basis.

PREPARED BY: Chris Ruso - Management Analyst II Signature
 Name/Title
 PERSON SIGNING CERTIFIES ALL INFORMATION PROVIDED IS TRUE & CORRECT FOR THE PERIOD INDICATED.
 REVIEWED BY: Jeanine Pitts-Dilworth - Administrative Services Director Signature
 Name/Title

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

TEN YEAR CONSTRUCTION PROGRAM AMENDMENTS

RECOMMENDATION SUMMARY

STAFF: Approve.

TECHNICAL ADVISORY: Approve.

CITIZENS ADVISORY: Approve.

**RFCD AGENDA
ITEM #06
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT

AGENDA ITEM

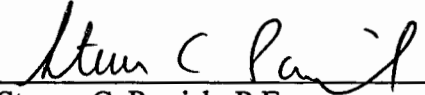
SUBJECT:
TEN YEAR CONSTRUCTION PROGRAM AMENDMENTS
PETITIONER:
STEVEN C. PARRISH, P.E., GENERAL MANAGER/CHIEF ENGINEER
RECOMMENDATION OF PETITIONER:
ADOPT AMENDMENTS TO THE TEN YEAR CONSTRUCTION PROGRAM (FOR POSSIBLE ACTION)

FISCAL IMPACT: None.

BACKGROUND: In accordance with Policies and Procedures Section II.B.9 general amendments can be processed to address scheduling changes and/or the need for additional funding. This agenda item addresses requested changes in funding, positive and negative, associated with this agenda as they impact the Ten Year Construction Program (TYCP). Also attached are amendments requested from Clark County. Amendments to the TYCP are shown for:

Project Description	Project Number	Item No. / Action	Current TYCP Amount	Requested Amendment Amount
LVW – Moccasin, Skye Canyon Park to Upper LVW	LAS31B18	Item # 16b Original	\$13,423,790.00	\$15,393,582.00
Hollywood System, Dunes South Detention Basin to Centennial Parkway – Phase I	NLV03H17	Item #15a 1 st Supplemental	\$ 0.00	(\$1,360,000.00)

Respectfully submitted,


 Steven C. Parrish, P.E.
 General Manager/Chief Engineer

TAC AGENDA ITEM #05 Date: 10/25/18	RFCD AGENDA ITEM # 06 Date: 11/08/18
CAC AGENDA ITEM #05 Date: 10/29/18	

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:	Date: 10/15/18
TEN YEAR CONSTRUCTION PROGRAM AMENDMENTS	
In accordance with Policies and Procedures Section II.B.9 general amendments can be processed to address scheduling changes and/or the need for additional funding. This agenda item addresses requested changes in funding, positive and negative, associated with this agenda as they impact the Ten Year Construction Program (TYCP). Also attached are amendments requested from Clark County.	
Staff Recommendation:	
Approve.	
Discussion by Technical Advisory Committee:	AGENDA #05 Date: 10/25/18
Recommendation:	
Approve.	
Discussion by Citizens Advisory Committee:	AGENDA #05 Date: 10/29/18
Recommendation:	
Approve.	

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM

SUBJECT:
TEN YEAR CONSTRUCTION PROGRAM AMENDMENT

PETITIONER: DENIS CEDERBURG, DIRECTOR
CLARK COUNTY PUBLIC WORKS

RECOMMENDATION OF PETITIONER:
IT IS RECOMMENDED THAT THE CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT ADOPT AMENDMENTS TO THE TEN YEAR CONSTRUCTION PROGRAM (FOR POSSIBLE ACTION)

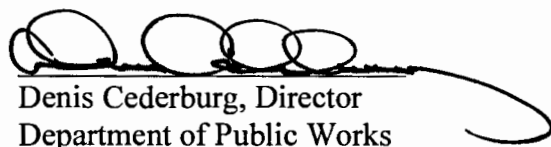
FISCAL IMPACT: None by this action.

BACKGROUND:

Clark County requests the following changes to the current Ten--Year Construction Program:

1. Goodsprings – Phase I (GSEA 0000, GSRV 0019, GSPA 0027 & 0029) – Move Construction Management and Construction from FY18/19 to FY19/20.

Respectfully submitted,


Denis Cederburg, Director
Department of Public Works

TAC AGENDA ITEM # 05 Date: 10/25/2018	RFCD AGENDA ITEM # 06 Date: 11/08/2018
CAC AGENDA ITEM # 05 Date: 10/29/2018	

EXHIBIT C

CITY OF LAS VEGAS
10-YEAR CONSTRUCTION PROGRAM
Amended November 8, 2018

TOTAL PLAN	Fac. ID Mile Range	Existing Value/ Comments	Project Cost Per MPU	Total Plan	FIRST FIVE YEARS 7/2018 THRU 6/2023			Board Date	Amount	Amendment?	Project No.
					(Year 1) FY 18/19	(Year 2) FY 19/20	(Year 3) FY 20/21				
TOTAL PLAN			Annual Resources	\$913,426,313	\$49,548,970	\$237,862,133	\$43,366,964				
Unencumbered from previous year	\$27,073,778		Cumulative Available Resources	\$854,651,644	\$20,100,623	\$37,257,151	\$25,465,230				
ENTITY RESOURCES			Annual Resources	\$345,726,730	\$18,384,647	\$92,043,477	\$16,781,344				
Unencumbered from previous year	(\$786,895)		Cumulative Available Resources		\$18,278,192	\$2,242,494	\$1,660,085				
ENTITY TOTAL				\$957,137,971	\$684,948,614	\$329,134,045	\$106,455	\$108,079,175	\$17,363,753		\$41,615,823
HYDROGRAPHIC BASIN: GOWAN		\$293,217,265	\$158,747,407	\$102,260,252	\$6,455	\$40,836,911	\$12,447,664		\$6,455		
SYSTEM: Gowan North		\$166,668,680	\$158,433,211	\$102,260,252	\$6,455	\$40,836,911	\$12,447,664		\$6,455		
PROJECT: Simmons Street Drainage Improvements											
Amend CLOSEOUT	Design/Admin			\$6,455	\$6,455			9/13/2018	\$6,455	YES	NLVD4F07
Right-of-way	Construction										
PROJECT: Gowan Box Canyon - Lone Mountain Road											
Design/Admin			Design started in 15/16	\$544,616							
Right-of-way	GOBX 0015	LAS24F15		\$435,893				10/11/2018		Moved	
Construction				\$3,004,007				10/11/2018		Moved	
PROJECT: Gowan Outfall - Alexander Rd., Decatur Blvd. to Simmons Street											
Design/Admin			Design started 16/17	\$2,944,788		\$1,568,565					
Right-of-way	GOOF 0275, 0285	NLVD4K17		\$2,355,830							
Construction	0025, 0375			\$22,853,410		\$30,433,031					
PROJECT: Gowan North - El Capitan Branch, Lone Mtn to Ann Road											
Design/Admin			Design started in 15/16	\$1,052,891							
Right-of-way	GOEC 0000 thru 0076	LAS24J15		\$842,313							
Construction				\$7,528,174							
PROJECT: Gowan Outfall - Clayton Branch											
Design/Admin				\$1,340,021							
Right-of-way	GOCL 0000			\$1,072,016							
Construction				\$9,581,151							
PROJECT: Gowan Outfall - El Capitan Branch, Ann Road to Centennial											
Design/Admin			Design Started in 17/18	\$819,943		\$436,755					
Right-of-way	GOEC 0100, 0128,	LAS24L17		\$655,955							
Construction	0152, 0178			\$5,862,597		\$7,807,000					
PROJECT: Gowan - Alexander Rd., Rancho to Decatur											
Design/Admin			Design Started in 13/14	\$1,175,463			\$644,912				
Right-of-way	GOAL 0000	LAS30A13		\$940,370							
Construction		Eng'r's Est.		\$8,404,560			\$11,527,799				
PROJECT: Gowan - Rancho, Craig to Alexander											
Design/Admin				\$740,352		\$591,540					
Right-of-way	GOAL 0100, 0111			\$592,262							
Construction				\$5,293,519							
PROJECT: Gowan - Alexander Branch											
Design/Admin				\$334,099			\$274,953				
Right-of-way	GOA2 0000			\$267,279							
Construction				\$2,368,808							
PROJECT: Gowan - Craig and US-95											
Design/Admin				\$1,032,239							
Right-of-way	GOAL 0168, 0247			\$825,791							
Construction				\$7,360,512							
HYDROGRAPHIC BASIN: UPPER NORTHERN LV WASH		\$260,198,919	\$141,046,165	\$24,205,965	\$100,000	\$15,393,582	\$0		\$15,493,582		
SYSTEM: Ann Road		\$71,879,876	\$13,931,771	\$100,000	\$100,000	\$0	\$0		\$100,000		
PROJECT: Rancho Road System - Elkhorn, Grand Canyon to Hualapai											
2nd Supplement	Design/Admin		Design Started in 15/16	\$430,021	\$100,000			8/9/2018	\$100,000	YES	LAS16P15
Right-of-way	RCHB 0295	LAS16P15		\$344,017							
Construction				\$3,074,648							
SYSTEM: Upper Western Tributary		\$156,679,079	\$62,671,081	\$8,712,383	\$0	\$0	\$0		\$0		
PROJECT: Brent Drainage System - Durango to El Capitan											
Design/Admin				\$676,524							
Right-of-way	BRDB 0107, 0157			\$541,220							
Construction				\$4,837,190							
SYSTEM: Kyle Canyon		\$0	\$74,543,312	\$15,393,582	\$0	\$15,393,582	\$0		\$15,393,582		
PROJECT: LVW - Moccasin, Skye Canyon Park to Upper LVW											
Design/Admin			Design start in 17/18	\$1,335,162		\$1,007,057		11/8/2018	\$1,007,057	YES	LAS31B18
Right-of-way	LVMO 0000	LAS31A17		\$1,068,130							
Construction				\$9,546,409		\$14,386,525		11/8/2018	\$14,386,525	YES	LAS31B18

EXHIBIT C

**CITY OF NORTH LAS VEGAS
10-YEAR CONSTRUCTION PROGRAM
Amended November 8, 2018**

	Fac. ID Mile Range	Existing Value/ Comments	Project Cost Per MPU	Total Plan	FIRST FIVE YEARS 7/2018 THRU 6/2023			Board Date	Amount	Amendment?	Project No.
					(Year 1) FY 18/19	(Year 2) FY 19/20	(Year 3) FY 20/21				
					Annual Resources	Annual Resources	Annual Resources				
TOTAL PLAN				\$913,426,313	\$49,548,970	\$237,862,133	\$43,368,964				
Unencumbered from previous year	\$27,073,778			\$854,651,644	\$20,100,623	\$37,257,151	\$25,465,230				
ENTITY RESOURCES				\$191,420,410	\$28,840,587	\$45,714,905	\$8,334,730				
Unencumbered from previous year	\$19,317,733				\$9,722,038	\$8,695,481	\$7,374,470				
ENTITY TOTAL		\$488,547,325	\$340,609,220	\$171,115,315	\$19,118,549	\$46,741,462	\$9,655,742		\$4,453,380		
HYDROGRAPHIC BASIN: LOWER NORTHERN LV WASH		\$258,586,054	\$151,646,075	\$35,229,844	\$0	\$5,124,000	\$400,268		\$5,124,000		
SYSTEM: LV Wash Craig		\$109,468,557	\$40,950,363	\$10,390,161	\$0	\$5,124,000	\$400,268		\$5,124,000		
PROJECT: North Las Vegas Detention Basin Upgrade											
Design/Admin			\$486,372				\$400,268				
Right-of-way	LVUP 0406		\$389,097	\$5,266,161							
Construction			\$3,051,982								
PROJECT: Fifth Street Collector - Centennial to Deer Springs											
Design/Admin			\$470,561			\$466,000		9/13/2018	\$466,000	YES	NLV17D18
Right-of-way	LVSC 0002, 0050		\$385,432	\$5,124,000							
Construction			\$3,444,794			\$4,658,000		9/13/2018	\$4,658,000	YES	NLV17D18
SYSTEM: Cheyenne Lamb Nellis		\$51,204,489	\$92,939,441	\$24,839,683	\$0	\$0	\$0		\$0		
PROJECT: Lake Mead Drain to Las Vegas Wash											
Design/Admin			\$1,054,874								
Right-of-way	LVE 0000, 0047		\$843,900	\$14,020,837							
Construction			\$7,542,353								
PROJECT: Las Vegas Boulevard Drain											
Design/Admin			\$965,296								
Right-of-way	LVLV 0000		\$692,237	\$10,818,846							
Construction			\$6,186,866								

EXHIBIT C

CITY OF NORTH LAS VEGAS
10-YEAR CONSTRUCTION PROGRAM
Amended November 8, 2018

					FIRST FIVE YEARS 7/2018 THRU 6/2023								
		Fac. ID Mile Range	Existing Value/ Comments	Project Cost Per MPU	Total Plan	(Year 1) FY 18/19	(Year 2) FY 19/20	(Year 3) FY 20/21					
TOTAL PLAN					Annual Resources	\$913,426,313	\$49,548,970	\$237,862,133	\$45,366,964				
Unencumbered from previous year		\$27,073,778	Cumulative Available Resources		\$854,651,644	\$20,100,623	\$37,257,151	\$25,465,230					
ENTITY RESOURCES					Annual Resources	\$191,420,410	\$28,840,587	\$45,714,905	\$8,334,730	Funding Requests 18/19			
Unencumbered from previous year		\$19,317,733	Cumulative Available Resources		\$171,115,315	\$9,722,038	\$8,695,481	\$7,374,470	Board Date	Amount	Amendment?	Project No.	
ENTITY TOTAL					\$488,547,325	\$340,609,220	\$171,115,315	\$19,118,549	\$46,741,462	\$9,655,742			
HYDROGRAPHIC BASIN: RANGE			\$126,569,409	\$162,096,557	\$135,885,471	\$19,118,549	\$41,617,462	\$9,255,474		(\$670,620)			
SYSTEM: Lower Range			\$65,749,662	\$24,394,411	\$15,533,708	\$3,533,490	\$1,061,265	\$0		\$0			
PROJECT: Range Wash - Alto Conveyance, Confluence DB to Los Feliz													
Design/Admin				\$437,260		\$323,490							
Right-of-way	RWAL 0000, 0068			\$349,807	\$5,453,279		\$465,825						
Construction				\$3,126,408									
PROJECT: Orchard Collector - Charleston to Linden													
Design/Admin			Design Started 00/01	\$34,705		\$210,000							
Right-of-way	SLOR 0158		CLA21A00	\$27,785	\$3,210,000								
Construction			Est.	\$205,629		\$3,000,000							
PROJECT: Owens Detention Basin & Outfall													
Design/Admin				\$558,925									
Right-of-way	SLWA 0130 thru 0175 & SLOW 0000, 0005			\$447,140	\$6,318,998		\$595,440						
Construction				\$3,827,758									
PROJECT: Range Wash - Sloan Channel, Stewart Bridge													
Design/Admin				\$60,043									
Right-of-way	RWSL 0188				\$551,431								
Construction				\$300,214									
SYSTEM: West Range			\$58,235,363	\$101,410,556	\$74,068,686	\$894,265	\$24,758,255	\$9,255,474		\$0			
PROJECT: Beltway Detention Basin & Channel													
Design/Admin			Design Started 13/14	\$879,720									
Right-of-way	RWRR 0107 thru 0261 & RWBE 0000		NLV09113	\$703,778	\$12,205,061								
Construction			Eng. Est.	\$6,002,580									
PROJECT: Nellis Storm Drain - Sloan Channel to Craig													
Design/Admin				\$1,858,202									
Right-of-way	SLNL 0000, 0084			\$1,486,562	\$25,387,555								
Construction				\$13,286,145									
PROJECT: Las Vegas Boulevard Storm Drain - Nellis to Range													
Design/Admin				\$1,643,608									
Right-of-way	SLLV 0000			\$1,314,886	\$1,568,078								
Construction				\$11,751,798									
PROJECT: Range Wash - Beltway Conveyance													
Design/Admin				\$236,261		\$174,789		\$129,624					
Right-of-way	RWBW 0030, RWW 0493 & 0517			\$189,009	\$2,854,464	\$233,051							
Construction				\$1,689,267				\$2,317,020					
PROJECT: Vandenberg North Detention Basin, Collection & Outfall													
Design/Admin			PreDesign Started 10/11	\$1,428,097				\$1,000,000					
Right-of-way	RWWE 0362, 0397 thru 0439		NLV09E11	\$1,142,479	\$24,758,255								
Construction			Eng. Est.	\$9,826,121				\$23,758,255					
PROJECT: Beltway Collection System - Pecos													
Design/Admin				\$657,496		\$486,425		\$360,733					
Right-of-way	RWW 0463 & RWWB 0000			\$525,998	\$7,296,255								
Construction				\$4,701,108				\$6,448,096					
SYSTEM: East Range			\$2,584,385	\$36,291,689	\$46,283,076	\$14,690,793	\$15,797,942	\$0		(\$670,620)			
PROJECT: Hollywood System, Dunes South Detention Basin to Centennial Parkway, Phase 1													
Design/Admin			Design Started 13/14	\$2,088,226									
Right-of-way	RWHW 0174, 0201, 0277		NLV03E13	\$1,670,581	(\$1,360,000)								
Construction			Eng. Est.	\$14,930,825		(\$1,360,000)			11/8/2018	(\$1,360,000)	YES	NLV03H17	
1st Supplement													
PROJECT: Hollywood System, Dunes South Detention Basin to Centennial Pkwy, Ph 2													
Design/Admin			Design Started 13/14	\$1,282,887		\$181,000							
Right-of-way	RWHW 0000, 0038, 0080, 0136, 0173		NLV03E13	\$1,026,309	\$15,361,413								
Construction			Eng. Est.	\$8,843,901		\$15,180,413							
PROJECT: Range Wash - Ann Branch, Phase 2													
Design/Admin			Design started 16/17	\$1,259,809				\$671,050					
Right-of-way	RWAN 0000, 0050		NLV03F17	\$1,007,847	\$9,096,186								
Construction				\$9,007,636				\$9,327,132					
PROJECT: Hollywood System, Centennial Pkwy to Speedway #2 Detention Basin													
2nd Supplement			Design started 16/17	\$583,000		\$689,380		\$310,544		10/11/2018	\$689,380	YES	NLV03G17
Design/Admin				\$466,399	\$6,489,134								
Right-of-way	RWHW 0300, 0355, 0369, 0410, 0412		NLV03G17	\$4,122,073				\$5,489,210					
Construction													
PROJECT: Speedway North Detention Basin and Outfall													
Design/Admin				\$1,181,318									
Right-of-way	RWHW 0459, 0486, 0499, 0500			\$945,055	\$15,794,341								
Construction				\$7,657,736									

EXHIBIT C

CLARK COUNTY
10-YEAR CONSTRUCTION PROGRAM

Amended November 8, 2018

				FIRST FIVE YEARS 7/2018 THRU 6/2023									
		Fac. ID Mile Range	Existing Value/ Comments	Project Cost Per MPU	Total Plan	(Year 1) FY 18/19	(Year 2) FY 19/20	(Year 3) FY 20/21	Funding Requests 18/19				
TOTAL PLAN				Annual Resources	\$913,426,313	\$49,548,970	\$237,862,133	\$43,366,864					
Unencumbered from previous year		\$27,073,778			Cumulative Available Resources	\$20,100,623	\$37,257,151	\$25,465,230					
ENTITY RESOURCES				Annual Resources	\$288,076,737	\$37,480,136	\$70,483,847	\$12,846,951					
Unencumbered from previous year		\$22,801,839			Cumulative Available Resources	\$572,844	\$16,077,879	\$18,023,050	Board Date	Amount	Amendment?	Project No.	
ENTITY TOTAL					\$1,066,286,455	\$547,373,058	\$279,614,876	\$36,907,293	\$54,958,812	\$10,901,779		\$821,349	
HYDROGRAPHIC BASIN: Tropicana/ Flamingo					\$693,370,426	\$158,884,827	\$127,630,895	\$12,095,531	\$23,401,728	\$340,000		(\$26,651)	
SYSTEM: Tropicana Flamingo Project					\$362,797,746	\$19,573,293	\$15,498,031	(\$24,608)	\$0	\$0		(\$24,608)	
PROJECT: Blue Diamond - Buffalo Branch													
	Design/Admin			\$785,575									
	Right-of-way	BDBF 0010, 0078, 0125		\$629,259	\$10,150,229								
	Construction			\$5,624,008									
PROJECT: Red Rock Channel, Naples Branch													
	Design/Admin		RRNA 00000-0097										
	Right-of-way		RRNN 0000-0022										
	Construction		RRNS 0000-0010										
	AMEND CLOSEOUT												
PROJECT: Flamingo - Cimarron Branch													
	Design/Admin			\$428,816									
	Right-of-way	FLCM 0003, 0040		\$343,052	\$6,372,410								
	Construction			\$3,066,031									
PROJECT: Flamingo Diversion - Rainbow Branch													
	Design/Admin		Design Started 06/09										
	Right-of-way	FLRB 0050 thru 0062	CLA27C08										
	Construction		Eng. Est.										
	AMEND CLOSEOUT												
SYSTEM: Flamingo Decatur					\$71,846,977	\$2,669,957	\$0	\$0	\$0	\$0		\$0	
SYSTEM: Lower Flamingo					\$241,571,216	\$107,037,196	\$67,896,013	\$11,450,139	\$4,475,938	\$0		(\$2,043)	
PROJECT: Wagon Trail Channel - Sunset to Teco													
	Design/Admin			\$176,000			\$130,207	\$93,749					
	Right-of-way	WGTR 0111		\$140,800	\$2,073,324		\$173,609						
	Construction			\$1,256,396				\$1,675,759					
PROJECT: Flamingo Wash, Maryland to Palos Verde													
	Design/Admin			\$269,188			\$199,149	\$143,367					
	Right-of-way	FLWA 0621 & 0673		\$215,351	\$2,905,579								
	Construction			\$1,924,694				\$2,563,043					
PROJECT: Las Vegas Wash - Christy													
	Design/Admin			\$1,970,430									
	Right-of-way	LVCH 0000, 0114		\$1,576,344	\$24,738,127								
	Construction			\$14,086,579									
PROJECT: Flamingo Wash Maryland - UNLV													
	Design/Admin			\$590,847									
	Right-of-way	FLMR 0000		\$472,878	\$7,417,897								
	Construction			\$4,224,557									
PROJECT: Airport Channel - Naples													
	Design/Admin		Design Started 13/14	\$328,199			\$184,051						
	Right-of-way	TRMC 0013, 0031, 0033	CLA10H13	\$262,559	\$9,549,217								
	Construction		Eng. Est.	\$2,346,621			\$9,365,166						
PROJECT: Tropicana Wash at Swenson													
	Design/Admin		Design Started 07/08										
	Right-of-way		CLA10D07										
	Construction												
	AMEND CLOSEOUT												
PROJECT: Vegas Valley Drive - Flamingo Wash to Pecos													
	Design/Admin			\$760,512									
	Right-of-way	VAVD 0000 & 0025		\$608,410	\$9,813,812								
	Construction			\$5,437,663									
PROJECT: Flamingo Wash - Industrial Rd. to Hotel Rio Dr.													
	Design/Admin		Design Started 09/10	\$32,099			\$100,000						
	Right-of-way	FLWA 0693 & 0696	CLA10F10	\$25,679	\$1,400,000								
	Construction		Eng. Est.	\$229,504			\$1,300,000						
SYSTEM: Lower LV Wash Tributaries					\$17,154,487	\$29,604,381	\$54,236,850	\$670,000	\$18,925,790	\$340,000		\$0	
PROJECT: Tropicana Avenue Conveyance - Morris to Mountain Vista													
	Design/Admin			\$421,501									
	Right-of-way	LV01 0151		\$337,201	\$5,270,056								
	Construction			\$3,013,735									
PROJECT: Las Vegas Wash - Boulder Highway													
	Design/Admin			\$1,225,497									
	Right-of-way	LVBH 0000		\$980,397	\$1,240,382								
	Construction			\$8,762,304									

EXHIBIT C

CLARK COUNTY
10-YEAR CONSTRUCTION PROGRAM
Amended November 8, 2018

TOTAL PLAN	Fac. ID Mile Range	Existing Value/ Comments	Project Cost Per MPU	Total Plan	FIRST FIVE YEARS 7/2018 THRU 6/2023			Board Date	Amount	Amendment?	Project No.
					(Year 1) FY 18/19	(Year 2) FY 19/20	(Year 3) FY 20/21				
					Annual Resources	Cumulative Available Resources	Annual Resources				
TOTAL PLAN				\$913,426,313	\$49,548,970	\$237,862,133	\$43,366,964				
Unencumbered from previous year	\$27,073,778				\$20,100,623	\$37,267,151	\$25,465,230				
ENTITY RESOURCES				\$288,076,737	\$37,480,136	\$70,463,847	\$12,846,951				
Unencumbered from previous year	\$22,801,839				\$572,844	\$16,077,879	\$18,023,050				
ENTITY TOTAL				\$1,066,286,455	\$547,373,058	\$279,614,876	\$36,907,293	\$54,958,812	\$10,901,779		\$821,349
PROJECT: Tropicana Avenue Conveyance - Las Vegas Wash to Boulder Hwy											
Design/Admin	LV01 0001, 0038, 0040		\$1,006,260	\$19,595,700		\$670,000	\$725,790				
Right-of-way	0078, 0080, 0117, 0118		\$805,010								
Construction		Eng. Est from CLA35A11	\$7,194,768				\$18,200,000				
PROJECT: Tropicana Avenue Conveyance - Boulder Hwy. to Morris											
Design/Admin	LV01 0135		\$268,969	\$9,702,895					\$340,000		
Right-of-way			\$215,175								
Construction		Eng. Est from CLA35A11	\$1,923,130								
PROJECT: Las Vegas Wash - Branch 02 - Monson Chnl - Las Vegas Wash to Boulder Hwy.											
Design/Admin	LV02 0001 thru 0294		\$1,415,886	\$18,427,727							
Right-of-way			\$1,132,709								
Construction			\$9,907,874								
HYDROGRAPHIC BASIN: Duck Creek/ Blue Diamond											
			\$302,474,814	\$201,718,434	\$82,502,165	\$13,489,566	\$30,483,142	\$10,561,779		\$0	
SYSTEM: Blue Diamond Tributaries											
			\$45,918,214	\$47,534,900	\$22,461,546	\$1,246,878	\$6,643,251	\$5,246,061		\$0	
PROJECT: Blue Diamond Wash - Arville to I-15											
Design/Admin	BDWA 0276		\$503,358	\$5,433,174		\$372,390	\$268,121				
Right-of-way			\$402,686								
Construction			\$3,599,007				\$4,792,663				
PROJECT: Duck Cr. / Blue Diamond, Bermuda to Las Vegas Blvd.											
Design/Admin	DCBD 0075, 0082 & 0084		\$506,588	\$8,120,548		\$374,780		\$277,937			
Right-of-way			\$405,271			\$499,707					
Construction			\$3,622,105				\$4,968,124				
PROJECT: Blue Diamond Channel, Amigo to Rancho Destino											
Design/Admin	BDWA 0087 thru 0174		\$848,814	\$10,907,824			\$678,201				
Right-of-way			\$679,051				\$904,267				
Construction			\$6,069,022								
SYSTEM: Upper Duck Creek											
			\$66,782,047	\$74,969,770	\$39,554,582	\$6,475,344	\$23,839,891	\$5,315,718		\$0	
PROJECT: Duck Creek Jones Boulevard											
Design/Admin	DCJB 0000, 0043	RTC Project	\$831,705	\$2,243,302		\$410,204					
Right-of-way			\$665,364								
Construction			\$5,946,690			\$1,833,096					
PROJECT: Silverado Ranch Detention Basin and Outfall Facilities											
Design/Admin	BD02 0125 thru 0312 & 0359 and 0385	Design Started 13/14 CLA08S13	\$1,857,765	\$23,554,540			\$589,506				
Right-of-way			\$1,486,212								
Construction			\$13,190,259				\$22,564,973				
PROJECT: Blue Diamond Channel 02, Decatur - Le Baron to Richmar											
Design/Admin	BD02 0334, 0358	RTC Project No Design	\$430,297	\$3,500,000		\$500,000					
Right-of-way			\$344,239								
Construction			\$3,076,628			\$3,000,000					
PROJECT: Blue Diamond Wash Railroad											
Design/Admin	BDW5 0026		\$357,137	\$4,561,265			\$285,351				
Right-of-way			\$295,709			\$352,296					
Construction			\$2,553,531								
PROJECT: Duck Creek Wash Tributary 4 - Detention Basin to Jones											
Design/Admin	DCW4 0298		\$513,315	\$5,685,475		\$378,757		\$281,627			
Right-of-way			\$410,652								
Construction			\$3,670,199						\$5,034,091		
SYSTEM: Lower Duck Creek											
			\$165,125,232	\$22,786,422	\$15,739,574	\$1,020,882	\$0	\$0		\$0	
PROJECT: Duck Creek, Sunset Park											
Design/Admin	DCSP 0000		\$1,379,919	\$15,739,574		\$1,020,882					
Right-of-way			\$1,103,935								
Construction			\$9,666,422								
SYSTEM: Central Duck Creek											
			\$24,649,321	\$56,428,342	\$4,746,462	\$4,746,462	\$0	\$0		\$0	
PROJECT: Duck Creek Wash, Torrey Pines to Rainbow											
Design/Admin	DCWA 1775, 1803, 1827	Developer Participation	\$387,474	\$600,000							
Right-of-way			\$309,979								
Construction			\$2,770,438			\$600,000					
PROJECT: Duck Creek Haven Street											
Design/Admin	DCHV 0028, 0050, 0057	RTC Project No Design	\$445,410	\$4,146,462		\$219,680					
Right-of-way			\$356,329								
Construction			\$3,184,684			\$3,926,782					

EXHIBIT C

CLARK COUNTY
10-YEAR CONSTRUCTION PROGRAM
Amended November 8, 2018

	Fac. ID Mile Range	Existing Value/ Comments	Project Cost Per MPU	Total Plan	FIRST FIVE YEARS 7/2018 THRU 6/2023			Board Date	Amount	Amendment?	Project No.
					(Year 1) FY 18/19	(Year 2) FY 19/20	(Year 3) FY 20/21				
TOTAL PLAN			Annual Resources	\$913,426,313	\$49,548,970	\$237,862,133	\$43,366,964				
Unencumbered from previous year	\$27,073,778		Cumulative Available Resources	\$854,651,644	\$20,100,623	\$37,257,151	\$25,465,230				
ENTITY RESOURCES			Annual Resources	\$288,076,737	\$37,480,136	\$70,463,847	\$12,846,951				
Unencumbered from previous year	\$22,801,839		Cumulative Available Resources		\$572,844	\$16,077,879	\$18,023,050				
ENTITY TOTAL		\$1,066,286,455	\$547,373,058	\$279,614,876	\$36,907,293	\$54,958,812	\$10,901,779		\$821,349		
HYDROGRAPHIC BASIN: Outlying Areas		\$70,441,215	\$186,769,797	\$69,481,816	\$11,322,196	\$1,073,942	\$0		\$848,000		
SYSTEM: Goodsprings		\$64,849	\$2,701,170	\$988,433	\$68,939	\$919,494	\$0		\$0		
PROJECT: Goodsprings - Phase I											
Design/Admin	GSEA 0000	Design Started 09/10	\$91,455		\$0	\$48,715		11/8/2018		Moved	
Right-of-way	GSPA 0027 & 0029	GSP01B10	\$55,910	\$988,433	\$68,939						
Construction	GSRV 0019		\$653,904		\$0	\$870,779		11/8/2018		Moved	
SYSTEM: Muddy River & Tributaries		\$25,323,000	\$118,862,000	\$45,633,876	\$10,405,257	\$0	\$0		\$0		
PROJECT: Fairgrounds - Detention Basin (Whipple Street)											
Design/Admin	FGWS 0000, 0075, 0105,	Design Started 10/11	\$1,197,000		\$564,678						
Right-of-way	0128, 0164, 0165, 0166	MOA03A11	\$0	\$10,405,257							
Construction			\$8,344,000		\$9,840,580						
PROJECT: Muddy River - Cooper to Yamashita											
Design/Admin	MRLV 0395 thru 0508	MOA01B89	\$1,267,000								
Right-of-way			\$1,141,713	\$16,992,927							
Construction			\$9,281,000								
PROJECT: Bryner Avenue to Lewis											
Design/Admin	MRLV 0198, 0240,	MOA01B89	\$1,395,000								
Right-of-way	0298, 0278		\$0	\$18,235,691							
Construction			\$9,978,000								
SYSTEM: Mount Charleston		\$304,564	\$894,337	\$1,498,459	\$0	\$0	\$0		\$0		
PROJECT: Rainbow Canyon Boulevard Bridge											
Design/Admin	MTCH 0001		\$118,849								
Right-of-way			\$0	\$1,498,459							
Construction			\$75,488								
SYSTEM: Laughlin		\$33,124,938	\$58,328,851	\$18,577,191	\$848,000	\$154,448	\$0		\$848,000		
PROJECT: Bridge Canyon Detention Basin											
Design/Admin	LUHS 0415, 0416, 0417		\$1,110,088								
Right-of-way			\$0	\$12,413,474							
Construction			\$8,969,201								
PROJECT: Bridge Canyon Outfall											
Design/Admin	LUHS 0315, 0316, 0317		\$252,575								
Right-of-way			\$0	\$3,283,716							
Construction			\$1,863,212								
PROJECT: Hiko Detention Basin Expansion											
Design/Admin	LUHS 0244		\$193,302			\$154,448					
Right-of-way			\$0	\$2,032,000							
Construction			\$1,212,966								
PROJECT: SR 163 at Casino Drive											
1st Supplement Design/Admin	LUBC 0000, 0001, 0006	Design Started 05/09	\$96,081		\$73,000			10/11/2018	\$73,000	YES	LAU04817
Right-of-way		LAU04A08	\$24,526	\$848,000							
Construction		Eng. Est.	\$778,578		\$775,000			10/11/2018	\$775,000	YES	LAU04817
SYSTEM: Searchlight		\$1,411,509	\$3,224,834	\$2,783,858	\$0	\$0	\$0		\$0		
PROJECT: Searchlight - West											
Design/Admin	SRWE 0001 thru 0091		\$222,430								
Right-of-way			\$0	\$2,783,858							
Construction			\$1,588,526								

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

**MAINTENANCE WORK PROGRAM
FISCAL YEAR 2017-18 FINAL ACCOUNTING REPORTS AND PROJECT CLOSEOUTS**

RECOMMENDATION SUMMARY

STAFF: Approve and closeout the interlocal contracts for FY 2017-18.

TECHNICAL ADVISORY: Approve and closeout the interlocal contracts for FY 2017-18.

CITIZENS ADVISORY: Approve and closeout the interlocal contracts for FY 2017-18.

**RFCD AGENDA
ITEM #07
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM

SUBJECT:
FISCAL YEAR 2017-18 MAINTENANCE WORK PROGRAM – FINAL ACCOUNTING REPORTS AND PROJECT CLOSEOUTS
PETITIONER:
STEVEN C. PARRISH, P.E., GENERAL MANAGER/CHIEF ENGINEER
RECOMMENDATION OF PETITIONER:
THAT THE BOARD ACCEPT THE FINAL ACCOUNTING REPORTS AND CLOSEOUT THE FISCAL YEAR 2017-18 MAINTENANCE WORK PROGRAM INTERLOCAL CONTRACT WITH EACH ENTITY (FOR POSSIBLE ACTION)

FISCAL IMPACT: \$2,374,475.16 – Reprogram for the Maintenance Work Program

BACKGROUND: Final accounting reports have been prepared for the fiscal year 2017-18 Maintenance Work Program ending June 30, 2018. The attached reports represent an accurate accounting of the charges and the remaining balances. Any maintenance work that was not completed during fiscal year 2017-18 has been reprogrammed within each entity’s fiscal year 2018-19 program. The final accounting reports have been approved by the corresponding entities:

ENTITY	FY 2017-18 BUDGET	EXPENDED	UNEXPENDED
Boulder City	\$ 300,000.00	\$ 209,570.10	\$ 90,429.90
Clark County	3,487,200.00	1,972,300.75	1,514,899.25
Henderson	2,077,550.00	1,796,387.05	281,162.95
Las Vegas	2,825,000.00	2,340,477.10	484,522.90
Mesquite	334,800.00	334,800.00	0.00
North Las Vegas	1,777,500.00	1,774,039.84	3,460.16
Totals	\$10,802,050.00	\$8,427,574.84	\$2,374,475.16

Respectfully submitted,


 Jeanine Pitts-Dilworth
 Administrative Services Director

TAC AGENDA ITEM #06 Date: 10/25/18	RFCD AGENDA ITEM # 07 Date: 11/08/18
CAC AGENDA ITEM #06 Date: 10/29/18	

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:

Date: 10/15/18

**FISCAL YEAR 2017-18 MAINTENANCE WORK PROGRAM
FINAL ACCOUNTING REPORTS AND PROJECT CLOSEOUTS**

Final accounting reports have been prepared for the fiscal year 2017-18 Maintenance Work Program, ending June 30, 2018. The reports represent an accurate accounting of the charges and the remaining balances. Any maintenance work that was not completed during fiscal year 2017-18 has been reprogrammed within each entity's fiscal year 2018-19 program. The final accounting reports have been approved by the corresponding entities:

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Boulder City	\$ 300,000.00	\$ 209,570.10	\$ 90,429.90
Clark County	3,487,200.00	1,972,300.75	1,514,899.25
Henderson	2,077,550.00	1,796,387.05	281,162.95
Las Vegas	2,825,000.00	2,340,477.10	484,522.90
Mesquite	334,800.00	334,800.00	0.00
North Las Vegas	1,777,500.00	1,774,039.84	3,460.16
Totals	\$10,802,050.00	\$8,427,574.84	\$2,374,475.16

Staff Recommendation:

Approve and closeout the interlocal contracts for FY 2017-18.

Discussion by Technical Advisory Committee:

AGENDA
#06 Date: 10/25/18

Recommendation:

Approve and closeout the interlocal contracts for FY 2017-18.

Discussion by Citizens Advisory Committee:

AGENDA
#06 Date: 10/29/18

Recommendation:

Approve and closeout the interlocal contracts for FY 2017-18.

Boulder City
FISCAL YEAR 2018 MAINTENANCE WORK PROGRAM
FINAL ACCOUNTING REPORT
As of 9/25/2018

VENDOR	P.O. NUMBER	P.O. AMOUNT	TOTAL EXPENDED	P.O. BALANCE
CITY OF BOULDER CITY	4500269641 00010	216,927.25	216,927.25	0.00
Various Vendors	None	0.00	(7,357.15)	7,357.15
Totals		\$216,927.25	\$209,570.10	\$7,357.15

FY 2018 INTERLOCAL AMOUNT/BUDGET	\$300,000.00	Total Encumbered	\$216,927.25
Total Encumbered	\$216,927.25	Total Expended	\$209,570.10
Total Unencumbered	<u>\$83,072.75</u>	Total Unexpended	<u>\$7,357.15</u>

Total Authorized	\$300,000.00
Expended	\$209,570.10
Amount to Reprogram for MWP	<u>\$90,429.90</u>

Prepared By:
Clark County Regional Flood Control District

Deana Hughes 10/15/18
DATE

Approved By:

Jim Keane 10/1/18
DATE

I certify that the above described maintenance was performed in accordance with the criteria/standards contained in the District's Operations and Maintenance Manual. Further, the information contained in this Final Accounting Report accurately reflects those costs incurred during the performance of this work. If there are any maintenance problems that have implications for the District as a whole, such as significant deterioration of major conveyance system components or failure of system components to perform as intended, a detailed description will accompany this report as an attachment.

Clark County
FISCAL YEAR 2018 MAINTENANCE WORK PROGRAM
FINAL ACCOUNTING REPORT
As of 9/25/2018

VENDOR	P.O. NUMBER	P.O. AMOUNT	TOTAL EXPENDED	P.O. BALANCE
Various Vendors	None	0.00	1,972,300.75	(1,972,300.75)
Totals		\$0.00	\$1,972,300.75	(\$1,972,300.75)

FY 2018 INTERLOCAL AMOUNT/BUDGET	\$3,487,200.00	Total Encumbered	\$0.00
Total Encumbered	\$0.00	Total Expended	\$1,972,300.75
Total Unencumbered	<u>\$3,487,200.00</u>	Total Unexpended	<u>(\$1,972,300.75)</u>

Total Authorized	\$3,487,200.00
Expended	\$1,972,300.75
Amount to Reprogram for MWP	<u>\$1,514,899.25</u>

Prepared By:
Clark County Regional Flood Control District

Deanna Hughes 10/15/18
DATE

Approved By:

KEH 10-8-18
DATE

I certify that the above described maintenance was performed in accordance with the criteria/standards contained in the District's Operations and Maintenance Manual. Further, the information contained in this Final Accounting Report accurately reflects those costs incurred during the performance of this work. If there are any maintenance problems that have implications for the District as a whole, such as significant deterioration of major conveyance system components or failure of system components to perform as intended, a detailed description will accompany this report as an attachment.

Henderson
FISCAL YEAR 2018 MAINTENANCE WORK PROGRAM
FINAL ACCOUNTING REPORT
As of 9/25/2018

<u>VENDOR</u>	<u>P.O. NUMBER</u>	<u>P.O. AMOUNT</u>	<u>TOTAL EXPENDED</u>	<u>P.O. BALANCE</u>
CITY OF HENDERSON	4500266163 00010	843,934.66	843,934.66	0.00
CH2M HILL ENGINEERS	4500266501 00010	56,891.67	56,891.67	0.00
ATKINS NORTH AMERICA INC	4500267163 00010	26,162.34	26,162.34	0.00
L R NELSON	4500270376 00010	13,049.50	13,049.50	0.00
HORROCKS ENGINEERS INC	4500272662 00010	4,500.00	4,500.00	0.00
SLATER HANIFAN GROUP INC	4500279372 00010	11,013.00	11,013.00	0.00
L R NELSON	4500280072 00010	4,146.00	4,146.00	0.00
IMPACT SAND & GRAVEL INC	4500280490 00010	20,657.19	20,657.19	0.00
CASHMAN EQUIPMENT COMPANY	4500282297 00010	19,687.23	19,687.23	0.00
COASTLINE EQUIPMENT	4500282299 00010	477.80	477.80	0.00
Various Vendors	None	0.00	795,867.66	(795,867.66)
Totals		\$1,000,519.39	\$1,796,387.05	(\$795,867.66)

FY 2018 INTERLOCAL AMOUNT/BUDGET	\$2,077,550.00	Total Encumbered	\$1,000,519.39
Total Encumbered	\$1,000,519.39	Total Expended	\$1,796,387.05
Total Unencumbered	<u>\$1,077,030.61</u>	Total Unexpended	<u>(\$795,867.66)</u>

Total Authorized	\$2,077,550.00
Expended	\$1,796,387.05
Amount to Reprogram for MWP	<u>\$281,162.95</u>

Prepared By:
 Clark County Regional Flood Control District

Deanna Hughes 10/15/18
 _____ DATE

Approved By:

[Signature] 10/4/18
 _____ DATE

I certify that the above described maintenance was performed in accordance with the criteria/standards contained in the District's Operations and Maintenance Manual. Further, the information contained in this Final Accounting Report accurately reflects those costs incurred during the performance of this work. If there are any maintenance problems that have implications for the District as a whole, such as significant deterioration of major conveyence system components or failure of system components to perform as intended, a detailed description will accompany this report as an attachment.

Las Vegas
FISCAL YEAR 2018 MAINTENANCE WORK PROGRAM
FINAL ACCOUNTING REPORT
As of 9/25/2018

VENDOR	P.O. NUMBER	P.O. AMOUNT	TOTAL EXPENDED	P.O. BALANCE
CITY OF LAS VEGAS	4500268889 00010	1,703,233.75	1,703,233.75	0.00
Various Vendors	None	0.00	637,243.35	(637,243.35)
Totals		\$1,703,233.75	\$2,340,477.10	(\$637,243.35)

FY 2018 INTERLOCAL AMOUNT/BUDGET	\$2,825,000.00	Total Encumbered	\$1,703,233.75
Total Encumbered	\$1,703,233.75	Total Expended	\$2,340,477.10
Total Unencumbered	<u>\$1,121,766.25</u>	Total Unexpended	<u>(\$637,243.35)</u>

Total Authorized	\$2,825,000.00
Expended	\$2,340,477.10
Amount to Reprogram for MWP	<u>\$484,522.90</u>

Prepared By:
Clark County Regional Flood Control District

Seanna Hughes 10/15/18
DATE

Approved By:

Mike Janssen for 10-10-18
DATE

I certify that the above described maintenance was performed in accordance with the criteria/standards contained in the District's Operations and Maintenance Manual. Further, the information contained in this Final Accounting Report accurately reflects those costs incurred during the performance of this work. If there are any maintenance problems that have implications for the District as a whole, such as significant deterioration of major conveyance system components or failure of system components to perform as intended, a detailed description will accompany this report as an attachment.

Mesquite
FISCAL YEAR 2018 MAINTENANCE WORK PROGRAM
FINAL ACCOUNTING REPORT
As of 9/25/2018

<u>VENDOR</u>	<u>P.O. NUMBER</u>	<u>P.O. AMOUNT</u>	<u>TOTAL EXPENDED</u>	<u>P.O. BALANCE</u>
CITY OF MESQUITE	4500272705 00010	284,844.53	284,844.53	0.00
Various Vendors	None	0.00	49,955.47	(49,955.47)
Totals		\$284,844.53	\$334,800.00	(\$49,955.47)

FY 2018 INTERLOCAL AMOUNT/BUDGET	\$334,800.00	Total Encumbered	\$284,844.53
Total Encumbered	\$284,844.53	Total Expended	\$334,800.00
Total Unencumbered	\$49,955.47	Total Unexpended	(\$49,955.47)

Total Authorized	\$334,800.00
Expended	\$334,800.00
Amount to Reprogram for MWP	\$0.00

Prepared By:
Clark County Regional Flood Control District

Deanna Hughes 10/15/18
DATE

Approved By:

Bill T... 10-2-18
DATE

I certify that the above described maintenance was performed in accordance with the criteria/standards contained in the District's Operations and Maintenance Manual. Further, the information contained in this Final Accounting Report accurately reflects those costs incurred during the performance of this work. If there are any maintenance problems that have implications for the District as a whole, such as significant deterioration of major conveyence system components or failure of system components to perform as intended, a detailed description will accompany this report as an attachment.

North Las Vegas
FISCAL YEAR 2018 MAINTENANCE WORK PROGRAM
FINAL ACCOUNTING REPORT
As of 9/25/2018

VENDOR	P.O. NUMBER	P.O. AMOUNT	TOTAL EXPENDED	P.O. BALANCE
CITY OF NORTH LAS VEGAS	4500267167 00010	1,717,299.50	1,717,299.50	0.00
Various Vendors	None	0.00	56,740.34	(56,740.34)
Totals		\$1,717,299.50	\$1,774,039.84	(\$56,740.34)

FY 2018 INTERLOCAL AMOUNT/BUDGET	\$1,777,500.00	Total Encumbered	\$1,717,299.50
Total Encumbered	\$1,717,299.50	Total Expended	\$1,774,039.84
Total Unencumbered	<u>\$60,200.50</u>	Total Unexpended	<u>(\$56,740.34)</u>

Total Authorized	\$1,777,500.00
Expended	\$1,774,039.84
Amount to Reprogram for MWP	<u>\$3,460.16</u>

Prepared By:
Clark County Regional Flood Control District

Seanna Hughes 10/15/18
DATE

Approved By:

[Signature] 10-2-18
DATE

I certify that the above described maintenance was performed in accordance with the criteria/standards contained in the District's Operations and Maintenance Manual. Further, the information contained in this Final Accounting Report accurately reflects those costs incurred during the performance of this work. If there are any maintenance problems that have implications for the District as a whole, such as significant deterioration of major conveyance system components or failure of system components to perform as intended, a detailed description will accompany this report as an attachment.

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

**MAINTENANCE WORK PROGRAM
FISCAL YEAR 2018-19 FIRST QUARTER STATUS REPORTS**

RECOMMENDATION SUMMARY

STAFF: Accept the reports.

TECHNICAL ADVISORY: Accept the reports.

CITIZENS ADVISORY: Accept the reports.

**RFCD AGENDA
ITEM #08
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM

SUBJECT:

MAINTENANCE WORK PROGRAM (MWP) – FIRST QUARTER FISCAL YEAR 2018-19 STATUS REPORTS

PETITIONER:

STEVEN C. PARRISH, P.E., GENERAL MANAGER/CHIEF ENGINEER

RECOMMENDATION OF PETITIONER:

THAT THE BOARD ACCEPT THE MAINTENANCE WORK PROGRAM FIRST QUARTER FISCAL YEAR 2018-19 STATUS REPORTS AS SUBMITTED BY THE ENTITIES (FOR POSSIBLE ACTION)

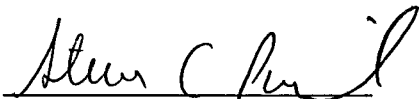
FISCAL IMPACT: None.

BACKGROUND: In accordance with the Board’s direction, the entities have submitted the First Quarter Status Reports for the FY 2018-19 Maintenance Work Program (MWP). The reports indicate the status of work completed under the program through September 30, 2018, although the figures below represent only those expenses which have been submitted to the District for payment.

Below is a summary, by entity, of the First Quarter Maintenance Work Program expenditures and the funding balance available by each Interlocal Contract for Fiscal Year 2018-19.

	FY 2018-19 Budget	Amount Spent	Funds Available
Boulder City	\$ 300,000.00	\$ 0.00	\$ 300,000.00
Clark County	6,991,700.00	47,944.16	6,943,755.84
Henderson	2,038,000.00	269,242.93	1,768,757.07
Las Vegas	2,825,000.00	48,453.90	2,776,546.10
Mesquite	444,800.00	0.00	444,800.00
North Las Vegas	1,717,500.00	287,325.52	1,430,174.48
Totals	\$14,317,000.00	\$652,966.51	\$13,664,033.49

Respectfully submitted,


Steven C. Parrish, P.E.
General Manager/Chief Engineer

TAC AGENDA ITEM # Date: 11/29/18	RFCD AGENDA ITEM #08 Date: 11/08/18
CAC AGENDA ITEM # Date: 12/03/18	

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:

Date: 10/30/18

**MAINTENANCE WORK PROGRAM
FIRST QUARTER FISCAL YEAR 2018-19 STATUS REPORTS**

In accordance with the Board's direction, the entities have submitted the First Quarter Status Reports for the FY 2018-19 Maintenance Work Program (MWP). The reports indicate the status of work completed under the program through September 30, 2018, although the figures below represent only those expenses which have been submitted to the District for payment.

Below is a summary, by entity, of the First Quarter Maintenance Work Program expenditures and the funding balance available by each Interlocal Contract for Fiscal Year 2018-19.

	FY 2018-19 Budget	Amount Spent	Funds Available
Boulder City	\$ 300,000.00	\$ 0.00	\$ 300,000.00
Clark County	6,991,700.00	47,944.16	6,943,755.84
Henderson	2,038,000.00	269,242.93	1,768,757.07
Las Vegas	2,825,000.00	48,453.90	2,776,546.10
Mesquite	444,800.00	0.00	444,800.00
North Las Vegas	1,717,500.00	287,325.52	1,430,174.48
Totals	\$14,317,000.00	\$652,966.51	\$13,664,033.49

Staff Recommendation:

Accept the reports.

Discussion by Technical Advisory Committee:

AGENDA
Date: 11/29/18

Recommendation:

Discussion by Citizens Advisory Committee:

AGENDA
Date: 12/03/18

Recommendation:

REGIONAL FLOOD CONTROL DISTRICT
 MAINTENANCE WORK PROGRAM
 QUARTERLY STATUS REPORT FY 2018-2019

MWP Facility #: BC01
 Facility Name: Hemenway Watershed

Entity: City of Boulder City
 Date Prepared: _____
 Quarter: 1st

MP Facility ID: HMFL - 0000, HMKY - 0000, 0019, HMLM - 0000, 0001, 0002, 0003, 0025, 0027, 0040, 0044, 0064, 0065, 0066, 0077, 0080, 0081, 0082, 0085, 0096, HMLV - 0000, 0001, 0003, 0005, 0006, 0018, 0019, 0031, 0055, 0060, 0065, HMNH - 0000, 0001, HMPC - 0000, 0011, 0018, 0026, HMRB - 0000, HMTH - 0000, 0025, 0026, 0027, 0033, 0034, 0040, 0041, 0054, 0064, 0076, HMLV - 0000, 0001, 0002, 0003, 0004, 0015, 0022, 0027, 0028, 0030, 0041, 0042, 0058, 0064, 0065, 0066, 0074, 0088, HMWA - 0000, 0004, 005, 0012, 0013, 0068, 0069, 0103, 0104, 0105, 0126, 0127, 0147, 0148, 0154, 0155, 0156, 0157, 0158, 0160, 0172, 0173, 0175, 0176, 0178, 0181, 0182, 0184, 0185

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00	500.00	0.00	0%	Jun-19
	5 Inspect Channels	500.00	500.00	0.00	0%	Jun-19
	6 Inspect Levees/Detention and Debris Basins	500.00	500.00	0.00	0%	Jun-19
	8 Species Survey and Removal	0.00	0.00	0.00	#DIV/0!	Jun-19
	10 Clean and Reshape Channels/Levees	5,000.00	5,000.00	980.68	20%	Jun-19
	15 Repair Lined Channel	2,000.00	2,000.00	0.00	0%	Jun-19
	20 Erosion Control and Repair	1,300.00	1,300.00	0.00	0%	Jun-19
	21 Provide/Maintain Dust Control	500.00	500.00	0.00	0%	Jun-19
	25 Clean Detention Debris Basins	5,000.00	5,000.00	0.00	0%	Jun-19
	35 Fence Repair	1,000.00	1,000.00	0.00	0%	Jun-19
	40 Vegetation Control - Chemical	3,000.00	3,000.00	1,580.81	53%	Jun-19
	45 Vegetation Control - Mechanical	69,000.00	69,000.00	20,719.81	30%	Jun-19
	50 Maintain Access Road	2,000.00	2,000.00	0.00	0%	Jun-19
	55 Clean & Inspect Inlet/Outlet Structures	2,500.00	2,500.00	1,336.79	53%	Jun-19
	60 Repair Inlet/Outlet Structures	1,200.00	1,200.00	0.00	0%	Jun-19
	65 Clean Storm Sewer Lines	500.00	500.00	0.00	0%	Jun-19
	70 Storm Sewer Repair	0.00	0.00	0.00	#DIV/0!	Jun-19
	75 Clean/Flush Culverts & Bridges	500.00	500.00	0.00	0%	Jun-19
	80 Miscellaneous Work Activities	50,000.00	50,000.00	8,294.63	17%	Jun-19
	85 Engineering	37,000.00	37,000.00	0.00	0%	Jun-19
	90 Homeless Encampment Cleanup	0.00	0.00	0.00	#DIV/0!	Jun-19
TOTALS		\$182,000.00	\$182,000.00	\$32,912.72	18%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Consultant/
 Contractor:
 Project
 Manager: *Joni Keane* Phone Number: 702-303-3008

REGIONAL FLOOD CONTROL DISTRICT
 MAINTENANCE WORK PROGRAM
 QUARTERLY STATUS REPORT FY 2018-2019

MWP Facility #: BC02
 Facility Name: Georgia/Buchanan Watershed
 MP Facility ID: GBAP - 0000, 0001, 0047, 0048, 0049, 0087, 0114, GBBC - 0001, 0002, 0003, 0030, 0031, 0047, 0048, 0062, 0063, 0108, 0109, 0110, 0146, 0148, 0149, 0150, 0151, 0152, 0153, 0155, 0172, GBGM - 0000, 0004, 0011, GBGR - 0000, 0001, 0002, 0036, 0040, 0100, 0111, 0112, 0130, 0131, 0188, 0203, 0215, 0217

Entity: City of Boulder City
 Date Prepared: _____
 Quarter: 1st

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00	500.00	0.00	0%	Jun-19
	5 Inspect Channels	500.00	500.00	0.00	0%	Jun-19
	6 Inspect Levees/Detention and Debris Basins	0.00	0.00	0.00	#DIV/0!	Jun-19
	8 Species Survey and Removal	0.00	0.00	0.00	#DIV/0!	Jun-19
	10 Clean and Reshape Channels/Levees	18,000.00	18,000.00	0.00	0%	Jun-19
	15 Repair Lined Channel	15,000.00	15,000.00	0.00	0%	Jun-19
	20 Erosion Control and Repair	9,000.00	9,000.00	0.00	0%	Jun-19
	21 Provide/Maintain Dust Control	500.00	500.00	0.00	0%	Jun-19
	25 Clean Detention Debris Basins	0.00	0.00	0.00	#DIV/0!	Jun-19
	35 Fence Repair	500.00	500.00	0.00	0%	Jun-19
	40 Vegetation Control - Chemical	500.00	500.00	0.00	0%	Jun-19
	45 Vegetation Control - Mechanical	10,000.00	10,000.00	0.00	0%	Jun-19
	50 Maintain Access Road	500.00	500.00	0.00	0%	Jun-19
	55 Clean & Inspect Inlet/Outlet Structures	2,000.00	2,000.00	0.00	0%	Jun-19
	60 Repair Inlet/Outlet Structures	1,000.00	1,000.00	0.00	0%	Jun-19
	65 Clean Storm Sewer Lines	1,000.00	1,000.00	0.00	0%	Jun-19
	70 Storm Sewer Repair	1,000.00	1,000.00	0.00	0%	Jun-19
	75 Clean/Flush Culverts & Bridges	2,000.00	2,000.00	0.00	0%	Jun-19
	80 Miscellaneous Work Activities	2,000.00	2,000.00	0.00	0%	Jun-19
	85 Engineering	1,000.00	1,000.00	0.00	0%	Jun-19
	90 Homeless Encampment Cleanup	0.00	\$0.00	0.00	#DIV/0!	Jun-19
	TOTALS	\$ 65,000.00	\$65,000.00	\$0.00	0%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Consultant/ Contractor: _____
 Project Manager: Jimi Keane
 Phone Number: 702-303-3008

REGIONAL FLOOD CONTROL DISTRICT
 MAINTENANCE WORK PROGRAM
 QUARTERLY STATUS REPORT FY 2018-2019

MWP Facility #: BC03

Facility Name: North Railroad Watershed

MP Facility ID: NRBL - 0000, 0091, 0092, 0093, 0094, 0095, 0096, NRCN - 0000, NRIN - 0000, 0003, 0004, 0013, 0017, 0025, 0032, 0038, 0040, 0044, 0052, 0053, 0055, 0056, 0063, 0064, 0065, 0066, 0067, 0068, 0069, 0070, 0071, 0087, 0135, NRRR 0000, 0049, 0050, 0070, 0089,

Entity: City of Boulder City

Date Prepared: _____

Quarter: 1st

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	450.00	450.00	0.00	0%	Jun-19
	5 Inspect Channels	100.00	100.00	0.00	0%	Jun-19
	6 Inspect Levees/Detention and Debris Basins	100.00	100.00	0.00	0%	Jun-19
	8 Species Survey and Removal	0.00	0.00	0.00	#DIV/0!	Jun-19
	10 Clean and Reshape Channels/Levees	1,500.00	1,500.00	0.00	0%	Jun-19
	15 Repair Lined Channel	100.00	100.00	0.00	0%	Jun-19
	20 Erosion Control and Repair	5,000.00	4,500.00	1,775.94	39%	Jun-19
	21 Provide/Maintain Dust Control	100.00	100.00	0.00	0%	Jun-19
	25 Clean Detention Debris Basins	5,000.00	2,800.00	0.00	0%	Jun-19
	35 Fence Repair	150.00	150.00	0.00	0%	Jun-19
	40 Vegetation Control - Chemical	1,000.00	1,000.00	0.00	0%	Jun-19
	45 Vegetation Control - Mechanical	1,000.00	4,500.00	4,367.03	97%	Jun-19
	50 Maintain Access Road	500.00	500.00	0.00	0%	Jun-19
	55 Clean & Inspect Inlet/Outlet Structures	1,000.00	1,000.00	239.79	24%	Jun-19
	60 Repair Inlet/Outlet Structures	500.00	700.00	662.26	95%	Jun-19
	65 Clean Storm Sewer Lines	500.00	500.00	0.00	0%	Jun-19
	70 Storm Sewer Repair	\$0.00	0.00	0.00	#DIV/0!	Jun-19
	75 Clean/Flush Culverts & Bridges	500.00	500.00	0.00	0%	Jun-19
	80 Miscellaneous Work Activities	2,000.00	1,000.00	278.45	28%	Jun-19
	85 Engineering	500.00	500.00	0.00	0%	Jun-19
	90 Homeless Encampment Cleanup	\$0.00	0.00	0.00	#DIV/0!	Jun-19
	TOTALS	\$20,000.00	\$20,000.00	\$7,323.47	37%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Consultant/
 Contractor:
 Project
 Manager:

Jim Keane

Phone Number: 702-303-3008

REGIONAL FLOOD CONTROL DISTRICT
 MAINTENANCE WORK PROGRAM
 QUARTERLY STATUS REPORT FY 2018-2019

MWP Facility #: BC04
 Facility Name: West Airport Watershed
 MP Facility ID: WAAD - 0000, 0043, 0046, 0063, 0064, 0085, 0086, 0094, 0106, 0122,
WAAP - 0035, 0111, 0171, WABB - 0071, WADD - 0167, WAGN - 0000,
0015, 0020, WAGR - 0000, 0034, WARM - 0000,

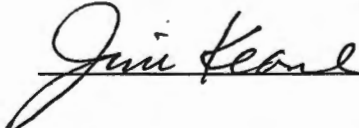
Entity: City of Boulder City
 Date Prepared: _____
 Quarter: 1st

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	500.00	500.00	0.00	0%	Jun-19
	5 Inspect Channels	500.00	500.00	0.00	0%	Jun-19
	6 Inspect Levees/Detention and Debris Basins	0.00	0.00	0.00	#DIV/0!	Jun-19
	8 Species Survey and Removal	0.00	0.00	0.00	#DIV/0!	Jun-19
	10 Clean and Reshape Channels/Levees	500.00	500.00	0.00	0%	Jun-19
	15 Repair Lined Channel	20,000.00	20,000.00	0.00	0%	Jun-19
	20 Erosion Control and Repair	2,000.00	2,000.00	0.00	0%	Jun-19
	21 Provide/Maintain Dust Control	500.00	500.00	0.00	0%	Jun-19
	25 Clean Detention Debris Basins	500.00	500.00	0.00	0%	Jun-19
	35 Fence Repair	500.00	500.00	0.00	0%	Jun-19
	40 Vegetation Control - Chemical	2,000.00	2,000.00	0.00	0%	Jun-19
	45 Vegetation Control - Mechanical	3,000.00	3,000.00	938.32	31%	Jun-19
	50 Maintain Access Road	500.00	500.00	0.00	0%	Jun-19
	55 Clean & Inspect Inlet/Outlet Structures	500.00	500.00	0.00	0%	Jun-19
	60 Repair Inlet/Outlet Structures	500.00	500.00	0.00	0%	Jun-19
	65 Clean Storm Sewer Lines	0.00	0.00	0.00	#DIV/0!	Jun-19
	70 Storm Sewer Repair	0.00	0.00	0.00	#DIV/0!	Jun-19
	75 Clean/Flush Culverts & Bridges	500.00	500.00	0.00	0%	Jun-19
	80 Miscellaneous Work Activities	500.00	500.00	0.00	0%	Jun-19
	85 Engineering	500.00	500.00	0.00	0%	Jun-19
	90 Homeless Encampment Cleanup	0.00	0.00	0.00	#DIV/0!	Jun-19
	TOTALS	\$33,000.00	\$33,000.00	\$938.32	3%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Consultant/Contractor/Project Manager:  Phone Number: 702-303-3008

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: **CC 01**
 Facility Name: **Flamingo Wash**
 MP Facility ID: **F1FA 0000-0004 F2NB 0000-0048 F301 0000-0007**
 MP Facility ID: **F401 0000-0003 FLBF 0046-0328 FLBN 0001-0033 FLDI 0000-0105**
 MP Facility ID: **FLDN 0000-0160 FLDR 0000-0179 FLDS 0000-0750 FLF1 0000-0304**
 MP Facility ID: **FLF2 0000-0137 FLF3 0000-0198, FLF4 0000-0355 FLFA 0000-0037 FLCM 0000**
 MP Facility ID: **FLFL 0000-0147 FLHA 0000 FLJO 0000-0076 FLOQ 0000-0050 FLRB 0000-0062**
 MP Facility ID: **FLRO 0000 FLSB 0000-0128 FLSM 0000-0180 FLSP 0000 FLTR 0000-0347**
 MP Facility ID: **FLWA 0001-1443 RRWB 0000 RRFA 0000-0143 RRFC 0000 RRHU 0000-0129**
 MP Facility ID: **RRNA 0000-0097 RRNN 0000-0022 RRNS 0000-0010 RRR4 0000-0160**

Entity: **CLARK COUNTY**
 Date Prepared: **10/29/2018**
 Quarter: **1st Quarter**

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$10,000.00	\$10,000.00	\$0.00		
	5 Inspect Channels	\$15,000.00	\$15,000.00	\$4,275.83		
	6 Inspect Levees, Deten/Debris Basins	\$30,000.00	\$30,000.00	\$1,973.94		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$60,000.00	\$60,000.00	\$5,990.88		
	15 Repair Lined Channel	\$20,000.00	\$20,000.00	\$0.00		
	20 Erosion Control and Repair	\$10,000.00	\$10,000.00	\$0.00		
	21 Provide/Maintain Dust Control	\$100,000.00	\$100,000.00	\$0.00		
	25 Clean Detention/Debris Basins	\$150,000.00	\$150,000.00	\$0.00		
	35 Fence Repair	\$20,000.00	\$20,000.00	\$2,588.14		
	40 Vegetation Control - Chemical	\$20,000.00	\$20,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$5,000.00	\$30,000.00	\$14,259.31		
	50 Maintain Access Road	\$5,000.00	\$5,000.00	\$1,667.49		
	55 Clean & Inspect Inlet/Outlet Structures	\$20,000.00	\$20,000.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$2,500.00	\$2,500.00	\$0.00		
	65 Clean Storm Sewer Lines	\$5,000.00	\$5,000.00	\$0.00		
	70 Storm Sewer Line Repair	\$5,000.00	\$5,000.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$4,000.00	\$4,000.00	\$0.00		
	80 Miscellaneous Work Activities	\$400,000.00	\$200,000.00	\$11,034.02		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$175,000.00	\$30,286.49		
	TOTALS	\$881,500.00	\$881,500.00	\$72,076.10	8%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Clean, Inspect & Repairs to 3 Detention/Debris Basins. General cleaning of channels
 Channel maintenance contract adjacent to beltway. Contract for the removal of silt from Red Rock Detention Basin.

Consultant/
 Contractor:
 Project
 Manager:

Dwayne Ako

Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 02
 Facility Name: Las Vegas Wash
 MP Facility ID: LVMD 0675-0169, 1355
 MP Facility ID: COLM 0000
 MP Facility ID: NLWY 0000-0030
 MP Facility ID: LV01 0000-0116
 MP Facility ID: LVCO 0000-0109
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$3,500.00	\$3,500.00	\$0.00		
	5 Inspect Channels	\$5,000.00	\$5,000.00	\$721.22		
	6 Inspect Levees, Deten/Debris Basins	\$0.00	\$0.00	\$0.00		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$200,000.00	\$200,000.00	\$0.00		
	15 Repair Lined Channel	\$2,500.00	\$2,500.00	\$0.00		
	20 Erosion Control and Repair	\$45,000.00	\$45,000.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$0.00	\$0.00	\$0.00		
	35 Fence Repair	\$2,000.00	\$2,000.00	\$0.00		
	40 Vegetation Control - Chemical	\$10,000.00	\$10,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$25,000.00	\$25,000.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$0.00	\$0.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$15,000.00	\$15,000.00	\$6,359.15		
	85 Engineering	\$5,000.00	\$5,000.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$0.00	\$0.00		
	TOTALS	\$313,000.00	\$313,000.00	\$7,080.37	2%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Misc. maintenance of channels. Vegetation control south of Vegas Valley.
 Maintenance work done by SNWA for weirs along the Las Vegas Wash Wetland area.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako

Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 03
 Facility Name: Duck Creek
 MP Facility ID: BDW5 0000-0025 DC95 0000-0038 DCBD 000-0081, 0176-0273
 MP Facility ID: DCCA 0000-0078 DCCD 0000 DCGL 0000-0086, 0106, 0112, 0138-0179
 MP Facility ID: DCHV 0000-0012 DC11 0000-0031, DCLB 0000 DCPA 0000-0106
 MP Facility ID: DCPI 0000-0032 DCRB 0015 DCSH 0000-0017 DCW1 0000-0132
 MP Facility ID: DCW4 0364-0557, 0665-0786, 0940-0971, DCW5 0000-0059
 MP Facility ID: DCWA 0000-0597, 0702-1657 DCWB 0000-0086 DCWF 0000-0061

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$5,000.00	\$5,000.00	\$0.00		
	5 Inspect Channels	\$5,000.00	\$5,000.00	\$2,301.61		
	6 Inspect Levees, Deter/Debris Basins	\$20,000.00	\$20,000.00	\$1,022.42		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$120,000.00	\$120,000.00	\$64,551.30		
	15 Repair Lined Channel	\$5,000.00	\$5,000.00	\$0.00		
	20 Erosion Control and Repair	\$30,000.00	\$30,000.00	\$0.00		
	21 Provide/Maintain Dust Control	\$75,000.00	\$75,000.00	\$13,413.75		
	25 Clean Detention/Debris Basins	\$15,000.00	\$15,000.00	\$0.00		
	35 Fence Repair	\$8,000.00	\$8,000.00	\$1,324.88		
	40 Vegetation Control - Chemical	\$10,000.00	\$10,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$55,000.00	\$55,000.00	\$0.00		
	50 Maintain Access Road	\$5,000.00	\$5,000.00	\$262.56		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$2,500.00	\$2,500.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$100,000.00	\$50,000.00	\$19,492.48		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$50,000.00	\$13,098.48		
	TOTALS	\$455,500.00	\$455,500.00	\$115,467.48	25%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:
 Misc. maintenance and cleaning of channels

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 05
 Facility Name: Las Vegas Range Wash
 MP Facility ID: RWSL 0000-0728, RWWE 0016-0055
 MP Facility ID: SLBN 0000 FLCH 0000
 MP Facility ID: SLEB 0000-0098 SLER 0000-0086
 MP Facility ID: SLLM 0000 SLNL 0095
 MP Facility ID: SLOR 0000-0148 SLST 0000-0095
 MP Facility ID: SLWA 0000-0091
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$2,000.00	\$2,000.00	\$0.00		
	5 Inspect Channels	\$5,000.00	\$5,000.00	\$1,708.14		
	6 Inspect Levees, Deten/Debris Basins	\$8,000.00	\$8,000.00	\$455.52		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$40,000.00	\$40,000.00	\$20,260.92		
	15 Repair Lined Channel	\$2,000,000.00	\$2,000,000.00	\$0.00		
	20 Erosion Control and Repair	\$0.00	\$0.00	\$0.00		
	21 Provide/Maintain Dust Control	\$50,000.00	\$50,000.00	\$0.00		
	25 Clean Detention/Debris Basins	\$10,000.00	\$10,000.00	\$0.00		
	35 Fence Repair	\$10,000.00	\$10,000.00	\$2,431.72		
	40 Vegetation Control - Chemical	\$9,000.00	\$9,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$5,000.00	\$5,000.00	\$0.00		
	50 Maintain Access Road	\$2,500.00	\$2,500.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$0.00	\$0.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$85,000.00	\$50,000.00	\$24,050.20		
	85 Engineering	\$383,000.00	\$383,000.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$35,000.00	\$3,604.45		
	TOTALS	\$2,609,500.00	\$2,609,500.00	\$52,510.95	2%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:
 Clean, Inspect & Repairs to 1 Detention Basin.
 Misc. maintenance and cleaning of channels.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 06
 Facility Name: Tropicana Wash
 MP Facility ID: TRWA 0000-0454 BDBF 0000-0006 BDFW 0000
 MP Facility ID: BDMO 0000-0010 BDRB 0000-0118
 MP Facility ID: BDRR 0000 BDWS 0000-0007
 MP Facility ID: NBSC 0000 RBMO 0000-0045
 MP Facility ID: TRBD 0000-0930 TRNB 0000-0113
 MP Facility ID: BDMD 0121 BDOJ 0000-0061

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$2,000.00	\$2,000.00	\$0.00		
	5 Inspect Channels	\$3,000.00	\$3,000.00	\$404.09		
	6 Inspect Levees, Deten/Debris Basins	\$15,000.00	\$15,000.00	\$1,136.31		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$15,000.00	\$15,000.00	\$9,051.29		
	15 Repair Lined Channel	\$10,000.00	\$10,000.00	\$0.00		
	20 Erosion Control and Repair	\$5,000.00	\$5,000.00	\$0.00		
	21 Provide/Maintain Dust Control	\$50,000.00	\$50,000.00	\$1,681.55		
	25 Clean Detention/Debris Basins	\$60,000.00	\$60,000.00	\$0.00		
	35 Fence Repair	\$10,000.00	\$10,000.00	\$932.17		
	40 Vegetation Control - Chemical	\$5,000.00	\$5,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$5,000.00	\$5,000.00	\$0.00		
	50 Maintain Access Road	\$5,000.00	\$5,000.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$5,000.00	\$5,000.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$75,000.00	\$50,000.00	\$9,316.12		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$25,000.00	\$1,475.33		
	TOTALS	\$265,000.00	\$265,000.00	\$23,996.86	9%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Misc. work contract maintenance adjacent to beltway.
 Channel Inspection, vegetation control and other work as assigned.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako

Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 07
 Facility Name: Airport Channel
 MP Facility ID: TRMC 0000-0060, 0195-0290
 MP Facility ID: WGTR 0058-0180
 MP Facility ID: _____
 MP Facility ID: _____
 MP Facility ID: _____
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$1,500.00	\$1,500.00	\$0.00		
	5 Inspect Channels	\$1,500.00	\$1,500.00	\$151.84		
	6 Inspect Levees, Deten/Debris Basins	\$0.00	\$0.00	\$0.00		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$7,000.00	\$7,000.00	\$0.00		
	15 Repair Lined Channel	\$10,000.00	\$10,000.00	\$0.00		
	20 Erosion Control and Repair	\$0.00	\$0.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$0.00	\$0.00	\$0.00		
	35 Fence Repair	\$3,000.00	\$3,000.00	\$0.00		
	40 Vegetation Control - Chemical	\$1,000.00	\$1,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$2,500.00	\$2,500.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$2,000.00	\$2,000.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$0.00	\$0.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$20,000.00	\$10,000.00	\$1,967.18		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$10,000.00	\$6,519.67		
	TOTALS	\$48,500.00	\$48,500.00	\$8,638.69	18%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Channel inspection and debris removal; vegetation control and other work as assigned.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako

Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 08
 Facility Name: Monson Channel
 MP Facility ID: LV02 0000-0303
 MP Facility ID: NLFL 0000-0144
 MP Facility ID: VBTW 0000
 MP Facility ID: _____
 MP Facility ID: _____
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$1,200.00	\$1,200.00	\$0.00		
	5 Inspect Channels	\$1,500.00	\$1,500.00	\$37.97		
	6 Inspect Levees, Deten/Debris Basins	\$0.00	\$0.00	\$0.00		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$7,500.00	\$7,500.00	\$0.00		
	15 Repair Lined Channel	\$1,800,000.00	\$1,800,000.00	\$0.00		
	20 Erosion Control and Repair	\$0.00	\$0.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$0.00	\$0.00	\$0.00		
	35 Fence Repair	\$1,500.00	\$1,500.00	\$0.00		
	40 Vegetation Control - Chemical	\$3,000.00	\$3,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$20,000.00	\$20,000.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$0.00	\$0.00	\$0.00		
	70 Storm Sewer Line Repair	\$10,000.00	\$10,000.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$10,000.00	\$10,000.00	\$120.82		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$0.00	\$0.00		
	TOTALS	\$1,854,700.00	\$1,854,700.00	\$158.79	0%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:
 Channel Inspection, vegetation control and other work as assigned.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 09
 Facility Name: Rawhide Channel
 MP Facility ID: DCRH 0000-0305
 MP Facility ID: MCE2 0000
 MP Facility ID: _____
 MP Facility ID: _____
 MP Facility ID: _____
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$1,000.00	\$1,000.00	\$0.00		
	5 Inspect Channels	\$2,500.00	\$2,500.00	\$379.61		
	6 Inspect Levees, Deten/Debris Basins	\$0.00	\$0.00	\$0.00		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$5,000.00	\$5,000.00	\$0.00		
	15 Repair Lined Channel	\$0.00	\$0.00	\$0.00		
	20 Erosion Control and Repair	\$0.00	\$0.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$0.00	\$0.00	\$0.00		
	35 Fence Repair	\$10,000.00	\$10,000.00	\$0.00		
	40 Vegetation Control - Chemical	\$2,000.00	\$2,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$2,000.00	\$2,000.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$1,000.00	\$1,000.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$40,000.00	\$40,000.00	\$80.81		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$0.00	\$0.00		
	TOTALS	\$63,500.00	\$63,500.00	\$460.42	1%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Channel inspection, vegetation control and other work as assigned.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako

Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: **CC 10**
 Facility Name: **Van Buskirk Channel**
 MP Facility ID: **VBCH 0000-0138**
 MP Facility ID: **VBMC 0000-0249**
 MP Facility ID: **VBTM 0000-0174**
 MP Facility ID: **VBVR 0000-0050**
 MP Facility ID: _____
 MP Facility ID: _____

Entity: **CLARK COUNTY**
 Date Prepared: **10/29/2018**
 Quarter: **1st Quarter**

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$2,000.00	\$2,000.00	\$0.00		
	5 Inspect Channels	\$2,000.00	\$2,000.00	\$189.81		
	6 Inspect Levees, Deten/Debris Basins	\$2,000.00	\$2,000.00	\$227.76		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$0.00	\$0.00	\$0.00		
	15 Repair Lined Channel	\$0.00	\$0.00	\$0.00		
	20 Erosion Control and Repair	\$0.00	\$0.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$2,000.00	\$2,000.00	\$0.00		
	35 Fence Repair	\$3,000.00	\$3,000.00	\$0.00		
	40 Vegetation Control - Chemical	\$1,000.00	\$1,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$0.00	\$0.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$0.00	\$0.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$25,000.00	\$10,000.00	\$3,855.61		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$15,000.00	\$4,387.58		
	TOTALS	\$37,000.00	\$37,000.00	\$8,660.76	23%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Channel Inspection, vegetation control and other work as assigned.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako

Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 11
 Facility Name: Flamingo Wash North Fork
 MP Facility ID: FLDY 0000-0013
 MP Facility ID: FLLA 0000-0379
 MP Facility ID: FLMN 0000-0075
 MP Facility ID: FLMS 0000
 MP Facility ID: _____
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$2,500.00	\$2,500.00	\$0.00		
	5 Inspect Channels	\$2,500.00	\$2,500.00	\$189.81		
	6 Inspect Levees, Deten/Debris Basins	\$2,000.00	\$2,000.00	\$75.92		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$5,000.00	\$5,000.00	\$0.00		
	15 Repair Lined Channel	\$0.00	\$0.00	\$0.00		
	20 Erosion Control and Repair	\$0.00	\$0.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$5,000.00	\$5,000.00	\$0.00		
	35 Fence Repair	\$1,500.00	\$1,500.00	\$860.30		
	40 Vegetation Control - Chemical	\$1,500.00	\$1,500.00	\$0.00		
	45 Vegetation Control - Mechanical	\$0.00	\$0.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$5,000.00	\$5,000.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$20,000.00	\$20,000.00	\$3,527.24		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$0.00	\$0.00		
	TOTALS	\$45,000.00	\$45,000.00	\$4,653.27	10%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:
 Channel Inspection, vegetation control and other work as assigned.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 14
 Facility Name: Laughlin Washes
 MP Facility ID: LUBC 0000-0010, 0324
 MP Facility ID: LUED 0000-0008
 MP Facility ID: LUHS 0000-0242, 0250
 MP Facility ID: LUMA 0023-0060
 MP Facility ID: LUUW 0000-0150
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$1,000.00	\$1,000.00	\$0.00		
	5 Inspect Channels	\$1,500.00	\$1,500.00	\$0.00		
	6 Inspect Levees, Deten/Debris Basins	\$7,000.00	\$7,000.00	\$0.00		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$0.00	\$0.00	\$0.00		
	15 Repair Lined Channel	\$8,000.00	\$8,000.00	\$0.00		
	20 Erosion Control and Repair	\$0.00	\$0.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$10,000.00	\$10,000.00	\$0.00		
	35 Fence Repair	\$2,000.00	\$2,000.00	\$0.00		
	40 Vegetation Control - Chemical	\$1,500.00	\$1,500.00	\$0.00		
	45 Vegetation Control - Mechanical	\$1,500.00	\$1,500.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$5,000.00	\$5,000.00	\$0.00		
	65 Clean Storm Sewer Lines	\$0.00	\$0.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$2,000.00	\$2,000.00	\$75.45		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$0.00	\$0.00		
	TOTALS	\$39,500.00	\$39,500.00	\$75.45	0%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Sediment removal from basin area upstream of LUED0008.
 Channel inspection, vegetation control and other work as assigned.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako

Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 15
 Facility Name: Moapa Valley
 MP Facility ID: LWAW 0000
 MP Facility ID: GASD 0000-0058
 MP Facility ID: MRLV 0343-0537, 0725
 MP Facility ID: MRLI 0001-0038
 MP Facility ID: _____
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$1,000.00	\$1,000.00	\$0.00		
	5 Inspect Channels	\$2,500.00	\$2,500.00	\$267.42		
	6 Inspect Levees, Deten/Debris Basins	\$0.00	\$0.00	\$0.00		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$50,000.00	\$50,000.00	\$0.00		
	15 Repair Lined Channel	\$2,000.00	\$2,000.00	\$0.00		
	20 Erosion Control and Repair	\$50,000.00	\$50,000.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$2,000.00	\$2,000.00	\$0.00		
	35 Fence Repair	\$0.00	\$0.00	\$0.00		
	40 Vegetation Control - Chemical	\$2,000.00	\$2,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$1,000.00	\$1,000.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$0.00	\$0.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$10,000.00	\$10,000.00	\$0.00		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$0.00	\$0.00		
	TOTALS	\$120,500.00	\$120,500.00	\$267.42	0%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:
 Channel Inspection, vegetation control and other work as assigned.

Consultant/ Contractor: _____
 Project Manager: Dwayne Ako Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 16
 Facility Name: Blue Diamond Wash
 MP Facility ID: BD02 0000-0109 BD03 0000-0081
 MP Facility ID: BDBE 0000-0134 BDW1 0000-0077
 MP Facility ID: BDW2 0023 BDW3 0000
 MP Facility ID: BDW4 0160-0174
 MP Facility ID: BDWA 0000-0212, 0284-0633
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$2,000.00	\$2,000.00	\$0.00		
	5 Inspect Channels	\$3,500.00	\$3,500.00	\$189.80		
	6 Inspect Levees, Deten/Debris Basins	\$2,000.00	\$2,000.00	\$759.18		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$15,000.00	\$15,000.00	\$0.00		
	15 Repair Lined Channel	\$10,000.00	\$10,000.00	\$0.00		
	20 Erosion Control and Repair	\$15,000.00	\$15,000.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$50,000.00	\$50,000.00	\$0.00		
	35 Fence Repair	\$2,000.00	\$2,000.00	\$0.00		
	40 Vegetation Control - Chemical	\$2,000.00	\$2,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$5,000.00	\$5,000.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$1,000.00	\$1,000.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$0.00	\$0.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$40,000.00	\$10,000.00	\$1,234.72		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$30,000.00	\$13,179.25		
	TOTALS	\$147,500.00	\$147,500.00	\$15,362.95	10%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:
 Channel maintenance contract adjacent to beltway.
 Channel Inspection, vegetation control and other work as assigned.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako

Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 17
 Facility Name: Searchlight
 MP Facility ID: SREA 0000-0065
 MP Facility ID: SRSO 0000-0030
 MP Facility ID: _____
 MP Facility ID: _____
 MP Facility ID: _____
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$500.00	\$500.00	\$0.00		
	5 Inspect Channels	\$1,000.00	\$1,000.00	\$0.00		
	6 Inspect Levees, Deten/Debris Basins	\$0.00	\$0.00	\$0.00		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$0.00	\$0.00	\$0.00		
	15 Repair Lined Channel	\$0.00	\$0.00	\$0.00		
	20 Erosion Control and Repair	\$0.00	\$0.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$0.00	\$0.00	\$0.00		
	35 Fence Repair	\$0.00	\$0.00	\$0.00		
	40 Vegetation Control - Chemical	\$0.00	\$0.00	\$0.00		
	45 Vegetation Control - Mechanical	\$0.00	\$0.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$0.00	\$0.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$1,000.00	\$1,000.00	\$0.00		
	85 Engineering	\$5,000.00	\$5,000.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$0.00	\$0.00		
	TOTALS	\$7,500.00	\$7,500.00	\$0.00	0%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Channel Inspection, vegetation control and other work as assigned.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako

Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: **CC 18**
 Facility Name: **Bunkerville**
 MP Facility ID: **WIWA 0000-0038**
 MP Facility ID: **WIJE 0000-0065**
 MP Facility ID: _____
 MP Facility ID: _____
 MP Facility ID: _____
 MP Facility ID: _____

Entity: **CLARK COUNTY**
 Date Prepared: **10/29/2018**
 Quarter: **1st Quarter**

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$1,000.00	\$1,000.00	\$0.00		
	5 Inspect Channels	\$1,000.00	\$1,000.00	\$267.42		
	6 Inspect Levees, Deten/Debris Basins	\$3,000.00	\$3,000.00	\$267.42		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$0.00	\$0.00	\$0.00		
	15 Repair Lined Channel	\$0.00	\$0.00	\$0.00		
	20 Erosion Control and Repair	\$0.00	\$0.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$5,000.00	\$5,000.00	\$0.00		
	35 Fence Repair	\$2,500.00	\$2,500.00	\$0.00		
	40 Vegetation Control - Chemical	\$1,000.00	\$1,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$0.00	\$0.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$0.00	\$0.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$1,000.00	\$1,000.00	\$0.00		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$0.00	\$0.00		
	TOTALS	\$14,500.00	\$14,500.00	\$534.84	4%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:
Channel Inspection, vegetation control and other work as assigned.

Consultant/ Contractor: _____
 Project Manager: Dwayne Ako Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 19
 Facility Name: Pittman
 MP Facility ID: PTBL 0028-0157
 MP Facility ID: PTDC 0000-0005
 MP Facility ID: PTWA 0477-0738
 MP Facility ID: PTWB 0000-0016
 MP Facility ID: _____
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$1,000.00	\$1,000.00	\$0.00		
	5 Inspect Channels	\$3,000.00	\$3,000.00	\$227.75		
	6 Inspect Levees, Deten/Debris Basins	\$0.00	\$0.00	\$0.00		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$5,000.00	\$5,000.00	\$0.00		
	15 Repair Lined Channel	\$5,000.00	\$5,000.00	\$0.00		
	20 Erosion Control and Repair	\$0.00	\$0.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$0.00	\$0.00	\$0.00		
	35 Fence Repair	\$2,000.00	\$2,000.00	\$694.67		
	40 Vegetation Control - Chemical	\$2,500.00	\$2,500.00	\$0.00		
	45 Vegetation Control - Mechanical	\$5,000.00	\$5,000.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$1,500.00	\$1,500.00	\$0.00		
	70 Storm Sewer Line Repair	\$1,500.00	\$1,500.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$15,000.00	\$15,000.00	\$2,929.01		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$0.00	\$0.00		
	TOTALS	\$41,500.00	\$41,500.00	\$3,851.43	9%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Channel Inspection, vegetation control and other work as assigned.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako

Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

WWP Facility #: CC 20
 Facility Name: Indian Springs
 MP Facility ID: ISWE 0100-1001
 MP Facility ID: _____
 MP Facility ID: _____
 MP Facility ID: _____
 MP Facility ID: _____
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$1,000.00	\$1,000.00	\$0.00		
	5 Inspect Channels	\$2,000.00	\$2,000.00	\$0.00		
	6 Inspect Levees, Deten/Debris Basins	\$2,000.00	\$2,000.00	\$0.00		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$0.00	\$0.00	\$0.00		
	15 Repair Lined Channel	\$0.00	\$0.00	\$0.00		
	20 Erosion Control and Repair	\$5,000.00	\$5,000.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$2,500.00	\$2,500.00	\$0.00		
	35 Fence Repair	\$0.00	\$0.00	\$0.00		
	40 Vegetation Control - Chemical	\$0.00	\$0.00	\$0.00		
	45 Vegetation Control - Mechanical	\$0.00	\$0.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$0.00	\$0.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$1,000.00	\$1,000.00	\$0.00		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$0.00	\$0.00		
	TOTALS	\$13,500.00	\$13,500.00	\$0.00	0%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:
 Channel Inspection, vegetation control and other work as assigned.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako

Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
QUARTERLY STATUS REPORT - FY 2018 - 2019**

MWP Facility #: CC 21
 Facility Name: Northern Beltway
 MP Facility ID: EKEA 0056-0338
 MP Facility ID: RCHB 0083, 0101, 0130, 0149, 0151
 MP Facility ID: GOBW 0000-0048
 MP Facility ID: GONO 0117-0335
 MP Facility ID: _____
 MP Facility ID: _____

Entity: CLARK COUNTY
 Date Prepared: 10/29/2018
 Quarter: 1st Quarter

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$1,000.00	\$0.00	\$0.00		
	5 Inspect Channels	\$2,000.00	\$2,000.00	\$455.51		
	6 Inspect Levees, Deten/Debris Basins	\$0.00	\$0.00	\$0.00		
	8 Species Survey and Removal	\$0.00	\$0.00	\$0.00		
	10 Clean and Reshape Channels/Levees	\$2,000.00	\$0.00	\$0.00		
	15 Repair Lined Channel	\$2,000.00	\$2,000.00	\$0.00		
	20 Erosion Control and Repair	\$10,000.00	\$5,000.00	\$0.00		
	21 Provide/Maintain Dust Control	\$0.00	\$0.00	\$0.00		
	25 Clean Detention/Debris Basins	\$0.00	\$0.00	\$0.00		
	35 Fence Repair	\$5,000.00	\$3,000.00	\$0.00		
	40 Vegetation Control - Chemical	\$2,000.00	\$2,000.00	\$0.00		
	45 Vegetation Control - Mechanical	\$0.00	\$0.00	\$0.00		
	50 Maintain Access Road	\$0.00	\$0.00	\$0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	60 Repair Inlet/Outlet Structures	\$0.00	\$0.00	\$0.00		
	65 Clean Storm Sewer Lines	\$0.00	\$0.00	\$0.00		
	70 Storm Sewer Line Repair	\$0.00	\$0.00	\$0.00		
	75 Clean/Flush Culverts & Bridges	\$0.00	\$0.00	\$0.00		
	80 Miscellaneous Work Activities	\$10,000.00	\$10,000.00	\$1,633.32		
	85 Engineering	\$0.00	\$0.00	\$0.00		
	90 Homeless Cleanup	\$0.00	\$10,000.00	\$2,087.07		
	TOTALS	\$34,000.00	\$34,000.00	\$4,175.90	12%	

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Channel maintenance contract adjacent to beltway.
 Channel inspection, vegetation control and other work as assigned.

Consultant/
 Contractor: _____
 Project
 Manager: Dwayne Ako Phone Number: 702-455-7540

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FY19 1ST QUARTERLY STATUS REPORT**

MWP Facility#: HN65 Entity: CITY OF HENDERSON
 Facility Name: C1 NORTH Date Prepared: 9/30/2018
 C1CH 0000-0441, C1CT 0000-0075, C1DC 0000-0303, C1E1 0000-0065, C1EQ 0000-0297, C1FK 0000-0073, C1HV 0000-0300, C1IT 0273, C1LM 0000-0130, C1RT 0000-0041, LLMW 0000, LLMW 0129, LLMW 0203
 MP Facility ID: 0129, LLMW 0203

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Total Expenditures (\$)	Percent Complete	Scheduled Completion Date
3	Facility Assessment and Inventory	\$150,000.00	\$25,000.00	\$0.00	0%	
5	Inspect Channels	\$5,000.00	\$5,000.00	\$810.62	16%	
6	Inspect Levees/Detention and Debris Basins	\$10,000.00	\$10,000.00	\$321.20	3%	
8	Species Survey and Removal	\$5,000.00	\$5,000.00	\$0.00	0%	
10	Clean and Reshape Channels/Levees	\$55,000.00	\$55,000.00	\$1,618.98	3%	
15	Repair Lined Channel	\$50,000.00	\$583,420.00	\$0.00	0%	
20	Erosion Control and Repair	\$50,000.00	\$50,000.00	\$0.00	0%	
21	Provide/Maintain Dust Control	\$20,000.00	\$20,000.00	\$0.00	0%	
25	Clean Detention/Debris Basins	\$260,000.00	\$260,000.00	\$723.51	0%	
35	Fence Repair	\$20,000.00	\$20,000.00	\$0.00	0%	
40	Vegetation Control - Chemical					
45	Vegetation Control - Mechanical	\$350,000.00	\$211,000.00	\$8,353.19	4%	
50	Maintain Access Road	\$20,000.00	\$20,000.00	\$0.00	0%	
55	Clean & Inspect Inlet/Outlet Structures					
60	Repair Inlet/Outlet Structures					
65	Clean Storm Sewer Lines					
70	Storm Sewer Repair					
75	Clean/Flush Culverts & Bridges	\$6,000.00	\$6,000.00	\$0.00	0%	
80	Miscellaneous Work Activities					
85	Engineering	\$35,000.00	\$72,644.18	\$11,858.70	16%	
90	Homeless Encampment Cleanup	\$0.00	\$5,000.00	\$3,390.46	68%	
TOTALS		\$1,036,000.00	\$1,348,064.18	\$27,076.66		Jun-2019

Delays or Problem Areas:

Work completed during prior fiscal year:

Act 3 - Select a consultant to start the Asset Management Program for Regional Flood Control Facilities. Act 20, Act 21 - 4-Kids Channel (C1FK 0040) repair the erosion upstream of the Unilever site. Other expenditures on this facility were for regular maintenance activities.

Work to be completed during current fiscal year:

Act 3 - Consultant to start the Asset Management Program for Regional Flood Control Facilities. Act 8, Act 20, Act 21, Act 25, Act 85 - Northeast C1 Detention Basin; remove sediment and debris from detention basin and repair erosion on embankments. Act 40, Act 45 - C1 Channel remove vegetation and re-establish flowline in natural portion of C1 Channel downstream of Tuscany subdivision. Other budgeted funding to be expended on this facility for regular maintenance activities

Consultant/
 Contractor: _____
 Project
 Manager: Albert J. Jankowiak (702) 267-3024

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FY19 1ST QUARTERLY STATUS REPORT**

MWP Facility#: HN66

Entity: CITY OF HENDERSON

Facility Name: C1 SOUTH Date Prepared: 9/30/2018

MP Facility ID: C1BH 0000-0214, C1CH 0455-0674, C1CH 0711, C1CH 0742-1138, C1GW 0000-0081, C1U1 0000-0062, C1US 0000-0078

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Total Expenditures (\$)	Percent Complete	Scheduled Completion Date
3	Facility Assessment and Inventory	\$150,000.00	\$25,000.00	\$0.00	0%	
5	Inspect Channels	\$3,500.00	\$2,000.00	\$881.92	44%	
6	Inspect Levees/Detention and Debris Basins	\$5,000.00	\$1,000.00	\$160.60	16%	
8	Species Survey and Removal	\$5,000.00	\$5,300.00	\$5,252.39	99%	
10	Clean and Reshape Channels/Levees		\$514.74	\$514.74	100%	
15	Repair Lined Channel					
20	Erosion Control and Repair	\$30,000.00	\$15,000.00	\$0.00	0%	
21	Provide/Maintain Dust Control	\$10,000.00	\$5,000.00	\$2,003.24	40%	
25	Clean Detention/Debris Basins	\$275,000.00	\$275,000.00	\$160,304.20	58%	
35	Fence Repair	\$8,000.00	\$3,000.00	\$946.31	32%	
40	Vegetation Control - Chemical					
45	Vegetation Control - Mechanical	\$20,000.00	\$20,000.00	\$8,007.99	40%	
50	Maintain Access Road					
55	Clean & Inspect Inlet/Outlet Structures	\$3,000.00	\$3,000.00	\$0.00	0%	
60	Repair Inlet/Outlet Structures					
65	Clean Storm Sewer Lines					
70	Storm Sewer Repair					
75	Clean/Flush Culverts & Bridges	\$1,000.00	\$1,000.00	\$0.00	0%	
80	Miscellaneous Work Activities	\$5,000.00	\$5,000.00	\$0.00	0%	
85	Engineering	\$32,000.00	\$32,000.00	\$11,624.19	36%	
90	Homeless Encampment Cleanup	\$0.00	\$5,000.00	\$2,442.34	49%	
TOTALS		\$547,500.00	\$397,814.74	\$192,137.92		Jun-2019

Delays or Problem Areas:

Due to high bids exceeding Engineer's estimate on Mission Hills Detention Basin, funding was no longer available for asset management.

Work completed during prior fiscal year:

Act 3 - Select a consultant to start the Asset Management Program for Regional Flood Control Facilities. Act 21, Act 25 and Act 85 - Completed Mission Hills Detention Basin debris and sediment removal at C1CH 0854. Other expenditures on this facility were for regular maintenance activities.

Work to be completed during current fiscal year:

Act 3 - Consultant to start the Asset Management Program for Regional Flood Control Facilities. Activities 8, 20, 21, 25 and 85 - Black Mountain DB Sediment and Debris Removal. Other budgeted funding to be expended on this facility for regular maintenance activities

Consultant/
Contractor:
Project
Manager:

Albert J. Jankowak

(702) 267-3024

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FY19 1ST QUARTERLY STATUS REPORT**

MWP Facility#: HN87
 Facility Name: PITTMAN CENTRAL NE
 MP Facility ID: PTBR 0067-0175, PTGB 0058-0249, PTPA 0260, PTWV 0000-0187

Entity: CITY OF HENDERSON
 Date Prepared: 9/30/2018

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Total Expenditures (\$)	Percent Complete	Scheduled Completion Date
3	Facility Assessment and Inventory					
5	Inspect Channels	\$1,800.00	\$1,800.00	\$631.20	35%	
6	Inspect Levees/Detention and Debris Basins	\$2,000.00	\$1,000.00	\$57.58	6%	
8	Species Survey and Removal					
10	Clean and Reshape Channels/Levees	\$20,000.00	\$20,000.00	\$0.00	0%	
15	Repair Lined Channel					
20	Erosion Control and Repair	\$1,000.00	\$1,000.00	\$0.00	0%	
21	Provide/Maintain Dust Control	\$2,000.00	\$2,000.00	\$1,986.29	99%	
25	Clean Detention/Debris Basins	\$20,000.00	\$10,000.00	\$5,385.00	54%	
35	Fence Repair	\$8,000.00	\$5,000.00	\$0.00	0%	
40	Vegetation Control - Chemical					
45	Vegetation Control - Mechanical	\$20,000.00	\$20,000.00	\$11,183.35	56%	
50	Maintain Access Road					
55	Clean & Inspect Inlet/Outlet Structures	\$3,000.00	\$3,000.00	\$0.00	0%	
60	Repair Inlet/Outlet Structures					
65	Clean Storm Sewer Lines					
70	Storm Sewer Repair					
75	Clean/Flush Culverts & Bridges					
80	Miscellaneous Work Activities					
85	Engineering	\$1,000.00	\$5,000.00	\$3,560.98	71%	
90	Homeless Encampment Cleanup					
TOTALS		\$78,800.00	\$68,800.00	\$22,804.40		Jun-2019
Delays or Problem Areas:						
Work completed during prior fiscal year:						
Act 25 - Pioneer Detention Basin (PTWV 0184 - 0185); removed approximately 6,000 cubic yards of sediment and debris. Other expenditures on this facility were for regular maintenance activities.						
Work to be completed during current fiscal year:						
Budgeted funding to be expended on this facility for regular maintenance activities						

Consultant/
 Contractor: _____
 Project
 Manager: Albert J. Jankowiak (702) 267-3024

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FY19 1ST QUARTERLY STATUS REPORT**

MWP Facility#: HN68
Facility Name: PITTMAN CENTRAL SE

Entity: CITY OF HENDERSON
Date Prepared: 9/30/2018

MP Facility ID: PTHR 0000-0210, PTIS 0000-0258, PTPD 0010-0063, PTRR 0000-0135, PTWH 0000-0116

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Total Expenditures (\$)	Percent Complete	Scheduled Completion Date
3	Facility Assessment and Inventory					
5	Inspect Channels	\$2,000.00	\$2,000.00	\$1,302.43	65%	
6	Inspect Levees/Detention and Debris Basins	\$1,000.00	\$0.00	\$0.00	0%	
8	Species Survey and Removal					
10	Clean and Reshape Channels/Levees	\$10,000.00	\$10,000.00	\$606.13	6%	
15	Repair Lined Channel					
20	Erosion Control and Repair					
21	Provide/Maintain Dust Control	\$2,000.00	\$2,000.00	\$0.00	0%	
25	Clean Detention/Debris Basins					
35	Fence Repair	\$5,000.00	\$5,000.00	\$673.71	13%	
40	Vegetation Control - Chemical					
45	Vegetation Control - Mechanical	\$10,000.00	\$10,000.00	\$1,504.39	15%	
50	Maintain Access Road					
55	Clean & Inspect Inlet/Outlet Structures					
60	Repair Inlet/Outlet Structures					
65	Clean Storm Sewer Lines					
70	Storm Sewer Repair					
75	Clean/Flush Culverts & Bridges					
80	Miscellaneous Work Activities					
85	Engineering	\$0.00	\$5,000.00	\$2,315.15	46%	
90	Homeless Encampment Cleanup	\$0.00	\$5,000.00	\$4,141.47	83%	
TOTALS		\$30,000.00	\$39,000.00	\$10,543.28		Jun-2019

Delays or Problem Areas:

Work completed during prior fiscal year:

Act 15, Act 21, Act 45 - I-515 Channel (PTIS 0029-0166); re-establish the channel and repair the reno mattresses along the I-515 near Horizon and Horizon Ridge. Other expenditures on this facility were for regular maintenance activities.

Work to be completed during current fiscal year:

Budgeted funding to be expended on this facility for regular maintenance activities

Consultant/
Contractor:
Project
Manager: Albert J. Jankowiak (702) 267-3024

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FY19 1ST QUARTERLY STATUS REPORT**

MWP Facility#: HN69
 Facility Name: PITTMAN CENTRAL NW
 MP Facility ID: 0000-0476, WWDC 0000-0084

Entity: CITY OF HENDERSON
 Date Prepared: 9/30/2018

DCWA 0646-0670, PTDC 0026-0237, PTPE 0000-0166, PTRW 0000-0170, PTSW 0000-0129, PTWA

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Total Expenditures (\$)	Percent Complete	Scheduled Completion Date
3	Facility Assessment and Inventory					
5	Inspect Channels	\$6,500.00	\$2,000.00	\$613.89	31%	
6	Inspect Levees/Detention and Debris Basins	\$2,000.00	\$1,000.00	\$115.16	12%	
8	Species Survey and Removal					
10	Clean and Reshape Channels/Levees	\$20,000.00	\$20,000.00	\$11,860.97	59%	
15	Repair Lined Channel	\$20,000.00	\$20,000.00	\$0.00	0%	
20	Erosion Control and Repair	\$10,000.00	\$10,000.00	\$9,559.37	96%	
21	Provide/Maintain Dust Control	\$5,500.00	\$5,500.00	\$2,331.60	42%	
25	Clean Detention/Debris Basins	\$2,000.00	\$2,000.00	\$0.00	0%	
35	Fence Repair	\$11,000.00	\$11,000.00	\$4,770.43	43%	
40	Vegetation Control - Chemical	\$5,000.00	\$0.00	\$0.00	0%	
45	Vegetation Control - Mechanical	\$25,000.00	\$25,000.00	\$23,342.16	93%	
50	Maintain Access Road					
55	Clean & Inspect Inlet/Outlet Structures					
60	Repair Inlet/Outlet Structures					
65	Clean Storm Sewer Lines					
70	Storm Sewer Repair					
75	Clean/Flush Culverts & Bridges		\$6,245.12	\$6,245.12	100%	
80	Miscellaneous Work Activities	\$500.00	\$2,000.00	\$1,646.20	82%	
85	Engineering	\$2,000.00	\$6,000.00	\$5,846.93	97%	
90	Homeless Encampment Cleanup	\$0.00	\$2,275.96	\$2,275.96	100%	
TOTALS		\$109,500.00	\$113,021.08	\$68,607.79		Jun-2019

Delays or Problem Areas:

Work completed during prior fiscal year:

Act 15 - Whitney Channel (WWDC 0054-0055); Repair approximately 150 feet of lined channel. Act 15, Act 21, Act 25, Act 50 - East C -1 Detention Basin (C1DC 0302 and C1DC 0303); response to Nevada Division of Water Resources-Dam Safety Engineer's Office requirement of immediate action. Act 85 - Sandwedge Channel (PTSW 0019); Engineering evaluation recommendation and construction estimate for repair on the culvert headwall. Other expenditures on this facility were for regular maintenance activities.

Work to be completed during current fiscal year:

Act 15 - Construction and repair of culvert headwall at Sandwedge Channel. Other budgeted funding to be expended on this facility for regular maintenance activities

Consultant/
Contractor:
Project
Manager:

Albert J. Jankowiak

(702) 267-3024

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FY19 1ST QUARTERLY STATUS REPORT**

MWP Facility#: HN70

Entity: CITY OF HENDERSON

Facility Name: PITTMAN CENTRAL SW

Date Prepared: 9/30/2018

MP Facility ID: PTDW 0000-0088, PTFD 0000-0111, PTLM 0000-0078, PTMR 0000-0399, PTRE 0000-0246, PTST

0000-0170, PTVV 0000-0005

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Total Expenditures (\$)	Percent Complete	Scheduled Completion Date
3	Facility Assessment and Inventory					
5	Inspect Channels	\$2,500.00	\$1,000.00	\$288.84	29%	
6	Inspect Levees/Detention and Debris Basins					
8	Species Survey and Removal					
10	Clean and Reshape Channels/Levees	\$10,000.00	\$10,000.00	\$0.00	0%	
15	Repair Lined Channel					
20	Erosion Control and Repair					
21	Provide/Maintain Dust Control	\$1,000.00	\$1,000.00	\$0.00	0%	
25	Clean Detention/Debris Basins	\$5,000.00	\$0.00	\$0.00	0%	
35	Fence Repair	\$2,000.00	\$2,000.00	\$563.13	28%	
40	Vegetation Control - Chemical					
45	Vegetation Control - Mechanical	\$5,000.00	\$5,000.00	\$0.00	0%	
50	Maintain Access Road					
55	Clean & Inspect Inlet/Outlet Structures					
60	Repair Inlet/Outlet Structures					
65	Clean Storm Sewer Lines					
70	Storm Sewer Repair					
75	Clean/Flush Culverts & Bridges					
80	Miscellaneous Work Activities					
85	Engineering	\$1,000.00	\$3,000.00	\$2,218.45	74%	
90	Homeless Encampment Cleanup					
TOTALS		\$26,500.00	\$22,000.00	\$3,070.42		Jun-2019
Delays or Problem Areas:						
Work completed during prior fiscal year:						
Expenditures on this facility were for regular maintenance activities.						
Work to be completed during current fiscal year:						
Budgeted funding to be expended on this facility for regular maintenance activities						

Consultant/
Contractor:
Project
Manager:

Albert J. Jankowiak

(702) 267-3024

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FY19 1ST QUARTERLY STATUS REPORT**

MWP Facility#: HN71
Facility Name: PITTMAN ANTHEM INSPIRADA

Entity: CITY OF HENDERSON
Date Prepared: 9/30/2018

PTAD 0000-0070, PTAN 0000-0280, PTAT 0000-0007, PTCR 0000-0036, PTDY 0000, PTEA 0493-0773, PTOG 0000-0016, PTPN 0000-0039, PTRD 0000-0065, PTSA 0000-0091, PTSE 0000-0346, PTSN 0000-0063, PTSS 0000-0012, PTWS 0000-0063

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Total Expenditures (\$)	Percent Complete	Scheduled Completion Date
3	Facility Assessment and Inventory					
5	Inspect Channels	\$5,000.00	\$2,000.00	\$0.00	0%	
6	Inspect Levees/Detention and Debris Basins	\$5,000.00	\$2,000.00	\$115.15	6%	
8	Species Survey and Removal					
10	Clean and Reshape Channels/Levees	\$10,000.00	\$5,000.00	\$0.00	0%	
15	Repair Lined Channel					
20	Erosion Control and Repair					
21	Provide/Maintain Dust Control	\$5,000.00	\$2,000.00	\$0.00	0%	
25	Clean Detention/Debris Basins	\$15,000.00	\$5,000.00	\$0.00	0%	
35	Fence Repair	\$5,000.00	\$2,000.00	\$250.31	13%	
40	Vegetation Control - Chemical					
45	Vegetation Control - Mechanical	\$15,000.00	\$5,000.00	\$0.00	0%	
50	Maintain Access Road	\$1,000.00	\$0.00	\$0.00	0%	
55	Clean & Inspect Inlet/Outlet Structures	\$2,500.00	\$500.00	\$0.00	0%	
60	Repair Inlet/Outlet Structures					
65	Clean Storm Sewer Lines	\$1,000.00	\$0.00	\$0.00	0%	
70	Storm Sewer Repair					
75	Clean/Flush Culverts & Bridges	\$2,000.00	\$0.00	\$0.00	0%	
80	Miscellaneous Work Activities	\$400.00	\$0.00	\$0.00	0%	
85	Engineering	\$4,000.00	\$2,500.00	\$2,147.27	86%	
90	Homeless Encampment Cleanup					
TOTALS		\$70,900.00	\$26,000.00	\$2,512.73		Jun-2019
Delays or Problem Areas:						
Work completed during prior fiscal year:						
Expenditures on this facility were for regular maintenance activities.						
Work to be completed during current fiscal year:						
Budgeted funding to be expended on this facility for regular maintenance activities						

Consultant/
Contractor:
Project
Manager: Albert J. Jankowik (702) 267-3024

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FY19 1ST QUARTERLY STATUS REPORT**

MWP Facility#: HN72

Entity: CITY OF HENDERSON

Facility Name: PITTMAN SEVEN HILLS

Date Prepared: 9/30/2018

MP Facility ID: PTAP 0000-0191, PTEA 0000-0230, PTEA 0244, PTEA 0437-0439, PTGV 0000-0073, PTHD 0000-0020, PTPW 0000-0309, PTSH 0011-0084

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Total Expenditures (\$)	Percent Complete	Scheduled Completion Date
3	Facility Assessment and Inventory					
5	Inspect Channels	\$2,500.00	\$1,000.00	\$0.00	0%	
6	Inspect Levees/Detention and Debris Basins	\$6,000.00	\$1,000.00	\$172.76	17%	
8	Species Survey and Removal					
10	Clean and Reshape Channels/Levees	\$10,000.00	\$5,000.00	\$0.00	0%	
15	Repair Lined Channel	\$10,000.00	\$0.00	\$0.00	0%	
20	Erosion Control and Repair					
21	Provide/Maintain Dust Control	\$10,000.00	\$2,000.00	\$0.00	0%	
25	Clean Detention/Debris Basins	\$15,000.00	\$0.00	\$0.00	0%	
35	Fence Repair	\$15,000.00	\$1,000.00	\$254.85	25%	
40	Vegetation Control - Chemical					
45	Vegetation Control - Mechanical	\$40,000.00	\$5,000.00	\$182.01	4%	
50	Maintain Access Road					
55	Clean & Inspect Inlet/Outlet Structures	\$2,000.00	\$1,000.00	\$0.00	0%	
60	Repair Inlet/Outlet Structures					
65	Clean Storm Sewer Lines					
70	Storm Sewer Repair					
75	Clean/Flush Culverts & Bridges					
80	Miscellaneous Work Activities					
85	Engineering	\$2,000.00	\$3,000.00	\$1,994.87	66%	
90	Homeless Encampment Cleanup					
TOTALS		\$112,500.00	\$19,000.00	\$2,604.49		Jun-2019

Delays or Problem Areas:

Work completed during prior fiscal year:

Act 45 - Pittman Anthem Parkway Channel (PTAP 0005-0045); vegetation removal and disposal. Other expenditures on this facility were for regular maintenance activities.

Work to be completed during current fiscal year:

Budgeted funding to be expended on this facility for regular maintenance activities

Consultant/

Contractor:

Project

Manager:

Albert J. Jankowiak

(702) 267-3024

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FY19 1ST QUARTERLY STATUS REPORT**

MWP Facility#: HN73
Facility Name: PITTMAN WEST HENDERSON

Entity: CITY OF HENDERSON
Date Prepared: 9/30/2018

MP Facility ID: PTN1 0000, PTN2 0000, PTN2 0086-0251, PTNO 0180-0182, PTNO 0190-0195, PTWA 0815-0905

Force Account/ Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Total Expenditures (\$)	Percent Complete	Scheduled Completion Date
3	Facility Assessment and Inventory					
5	Inspect Channels	\$300.00	\$300.00	\$0.00	0%	
6	Inspect Levees/Detention and Debris Basins	\$5,000.00	\$1,000.00	\$0.00	0%	
8	Species Survey and Removal					
10	Clean and Reshape Channels/Levees	\$10,000.00	\$0.00	\$0.00	0%	
15	Repair Lined Channel					
20	Erosion Control and Repair					
21	Provide/Maintain Dust Control					
25	Clean Detention/Debris Basins					
35	Fence Repair	\$10,000.00	\$1,000.00	\$129.69	13%	
40	Vegetation Control - Chemical					
45	Vegetation Control - Mechanical					
50	Maintain Access Road					
55	Clean & Inspect Inlet/Outlet Structures					
60	Repair Inlet/Outlet Structures					
65	Clean Storm Sewer Lines					
70	Storm Sewer Repair					
75	Clean/Flush Culverts & Bridges					
80	Miscellaneous Work Activities					
85	Engineering	\$1,000.00	\$2,000.00	\$1,888.09	94%	
90	Homeless Encampment Cleanup					
TOTALS		\$26,300.00	\$4,300.00	\$2,017.78		Jun-2019

Delays or Problem Areas:

Work completed during prior fiscal year:

Expenditures on this facility were for regular maintenance activities.

Work to be completed during current fiscal year:

Budgeted funding to be expended on this facility for regular maintenance activities

Consultant/
Contractor:
Project
Manager: Albert J. Jankowiak (702) 267-3024

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FIRST QUARTER - FY 2018-19**

MWP Facility #: LV51
 Facility Name: Cedar Avenue Channel/Nellis System
 MP Facility ID: CACH 0000 - 0148,
CABZ 0000 - 0010, CACN 0000 - 0049,
LVBZ 0166 - 0223

Entity: City of Las Vegas
 Date Prepared: 10/23/2018

Force Account/Contract	Activity	Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date *
FA 03	Facility Assessment and Inventory	\$5,000.00	\$5,000.00			Jun-19
FA 05	Inspect Channels	\$1,000.00	\$1,000.00			Jun-19
	06 Inspect Levees/Detention and Debris Basins					
	08 Species Survey and Removal	\$10,000.00	\$10,000.00			Jun-19
FA 10	Clean and Reshape Channels/Levees	\$20,000.00	\$1,000.00			Jun-19
FA 15	Repair Lined Channel	\$5,000.00	\$5,000.00			Jun-19
	20 Erosion Control and Repair	\$10,000.00	\$10,000.00			Jun-19
	21 Provide/Maintain Dust Control					
	25 Clean Detention Debris Basins					
	35 Fence Repair	\$10,000.00	\$10,000.00			Jun-19
	40 Vegetation Control - Chemical					
	45 Vegetation Control - Mechanical	\$10,000.00	\$10,000.00			Jun-19
	50 Maintain Access Road					
FA 55	Clean & Inspect Inlet/Outlet Structures	\$10,000.00	\$10,000.00			Jun-19
	60 Repair Inlet/Outlet Structures					
FA 65	Clean Storm Sewer Lines	\$2,000.00	\$2,000.00			Jun-19
FA 70	Storm Sewer Repair	\$1,000.00	\$1,000.00			Jun-19
FA 75	Clean/Flush Culverts & Bridges	\$2,000.00	\$2,000.00	\$94.96		Jun-19
FA 80	Miscellaneous Work Activities	\$13,000.00	\$13,000.00			Jun-19
FA 85	Engineering	\$1,000.00	\$20,000.00	\$16,090.73		Jun-19
TOTALS		\$100,000.00	\$100,000.00	\$16,185.69	16.2%	

Delays or Problem Areas:

Work completed during prior Fiscal Year:

Cleaned Cedar Avenue channel twice a year (CACH 0000-0148) and graffiti removal. Routine maintenance work activities.

Work to be completed during current Fiscal Year:

Inspect and clean storm drain facilities. Clean open channel twice a year (CACH 0000-0148) and graffiti removal. Routine maintenance work activities.

Consultant/Contractor: N/A
 Project
 Manager: Oh Sang Kwon, P.E./Matthew Meyer, P.E. Phone Number: 702-229-6541

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FIRST QUARTER - FY 2018-19**

MWP Facility #: LV52
 Facility Name: Gowan/Angel Pk/Lone Mtn System
 MP Facility ID: GONO 0000 - 0110, GOSO 0000 - 0462, GODU 0000 - 0050, GOL5 0006-0032
GOOF 0427 - 0775, GOCR 0180 - 0201, GOLB 0000 - 0030, GOL3 0000-0115
GOLM 0000 - 0277, GOBU 0000 - 0085, GOBW 0103, GOBX 0000, GOBE 0000-0139
APDG 0000 - 0060, APOF 0000 - 0124, APP1 0000 - 0056, GOTE 0000
GOO2 0000 - 0257, APNO 0015, APNO 0012, GOLO 0152-0275, APNO 0001-0004
APSP 0000 - 0183, APBE 0000 - 0122, APSO 0000, APSO 0020, APFH 0089
APSO 0204, APSO 0254, APSO 0255, APSO 0345, APMD 0027, GOL5 0000, APD2 0000 - 0002
APMD 0132, APMD 0190 - 0258, GOL2 0000 - 0014, APD3 0000 - 0021, GOWC 0000,
GOL3 0128, GOL4 0000 - 0026, APFH 0000 - 0061, APM5 0000, APAD 0000 - 0225, APCB 0000 - 0080

Entity: City of Las Vegas
 Date Prepared: 10/23/2018

Force Account/Contract	Activity	Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date *
FA 03	Facility Assessment and Inventory	\$7,000.00				Jun-19
FA 05	Inspect Channels	\$6,000.00				Jun-19
FA 06	Inspect Levees/Detention and Debris Basins	\$5,000.00				Jun-19
FA 08	Species Survey and Removal	\$20,000.00				Jun-19
	10 Clean and Reshape Channels/Levees	\$10,000.00				Jun-19
FA 15	Repair Lined Channel	\$100,000.00				Jun-19
FA 20	Erosion Control and Repair	\$50,000.00				Jun-19
FA 21	Provide/Maintain Dust Control	\$10,000.00				Jun-19
FA 25	Clean Detention Debris Basins	\$100,000.00				Jun-19
FA 35	Fence Repair	\$50,000.00				Jun-19
	40 Vegetation Control - Chemical	\$2,000.00				Jun-19
FA 45	Vegetation Control - Mechanical	\$20,000.00				Jun-19
	50 Maintain Access Road	\$5,000.00				Jun-19
FA 55	Clean & Inspect Inlet/Outlet Structures	\$40,000.00				Jun-19
FA 60	Repair Inlet/Outlet Structures	\$120,000.00				Jun-19
	65 Clean Storm Sewer Lines	\$10,000.00				Jun-19
FA 70	Storm Sewer Repair	\$40,000.00				Jun-19
FA 75	Clean/Flush Culverts & Bridges	\$45,000.00				Jun-19
FA 80	Miscellaneous Work Activities	\$10,000.00				Jun-19
FA 85	Engineering	\$50,000.00		\$13,555.20		Jun-19
TOTALS		\$700,000.00	\$0.00	\$13,555.20	1.9%	

Delays or Problem Areas:

Work completed during prior Fiscal Year:

Graffiti and trash removed within the Gilmore Channel (GOLM 0150 - 0240). Reseal joints along the beltway channel. Cleaned and inspected detention basins. Removed sediments along the beltway channel. Routine maintenance work activities.

Work to be completed during current Fiscal Year:

Graffiti and trash removal. Vegetation control throughout the detention basins. Repair crack concrete and joint seals in various locations. Repair erosion damages in embankment of the detention basins. Clean and inspect detention basins. Remove sediment along the beltway channel. Routine maintenance work activities.

Consultant/Contractor: N/A
 Project Manager: Oh Sang Kwon, P.E./Matthew Meyer, P.E. Phone Number: 702-229-6541

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FIRST QUARTER - FY 2018-19**

MWP Facility #: LV53
 Facility Name: Lake Mead/Smoke Ranch/Washington System
 MP Facility ID: LVLM 0336 - 0525, LVSR 0312 - 0525,
LV15 0284 - 0474, LVOW 0000 - 0351,
LVRA 0000 - 0066, LVPK 0000 - 0130

Entity: City of Las Vegas
 Date Prepared: 10/23/2018

Force Account/Contract	Activity	Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date *
FA 03	Facility Assessment and Inventory	\$5,000.00	\$5,000.00			Jun-19
FA 05	Inspect Channels	\$10,000.00	\$10,000.00			Jun-19
	06 Inspect Levees/Detention and Debris Basins					
	08 Species Survey and Removal					
FA 10	Clean and Reshape Channels/Levees	\$2,500.00	\$2,500.00			Jun-19
FA 15	Repair Lined Channel	\$3,500.00	\$3,500.00			Jun-19
	20 Erosion Control and Repair					
	21 Provide/Maintain Dust Control					
	25 Clean Detention Debris Basins					
FA 35	Fence Repair	\$2,000.00	\$2,000.00			Jun-19
	40 Vegetation Control - Chemical					
	45 Vegetation Control - Mechanical					
	50 Maintain Access Road					
FA 55	Clean & Inspect Inlet/Outlet Structures	\$16,000.00	\$9,000.00			Jun-19
FA 60	Repair Inlet/Outlet Structures	\$5,000.00	\$5,000.00			Jun-19
FA 65	Clean Storm Sewer Lines	\$2,500.00	\$2,500.00			Jun-19
FA 70	Storm Sewer Repair	\$28,000.00	\$28,000.00			Jun-19
	75 Clean/Flush Culverts & Bridges	\$20,000.00	\$20,000.00			Jun-19
FA 80	Miscellaneous Work Activities	\$2,500.00	\$2,500.00			Jun-19
FA 85	Engineering	\$3,000.00	\$10,000.00	\$8,710.55		Jun-19
TOTALS		\$100,000.00	\$100,000.00	\$8,710.55	8.7%	

Delays or Problem Areas:

Work completed during prior Fiscal Year:

Routine maintenance work activities.

Work to be completed during current Fiscal Year:

Remove debris, clean drop inlets, and repair any damages. Routine maintenance work activities.

Consultant/Contractor: N/A
 Project Manager: Oh Sang kwon, P.E./Matthew Meyer, P.E. Phone Number: 702-229-6541

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FIRST QUARTER - FY 2018-19**

MWP Facility #: LV54
 Facility Name: Las Vegas Wash System
 MP Facility ID: LVMD 1069 - 1354

Entity: City of Las Vegas
 Date Prepared: 10/23/2018

Force Account/Contract	Activity	Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date *
FA 03	Facility Assessment and Inventory	\$25,000.00	\$25,000.00			Jun-19
FA 05	Inspect Channels	\$20,000.00	\$20,000.00			Jun-19
	06 Inspect Levees/Detention and Debris Basins					
FA 08	Species Survey and Removal	\$10,000.00	\$10,000.00			Jun-19
FA 10	Clean and Reshape Channels/Levees	\$75,000.00	\$75,000.00	\$482.00		Jun-19
FA 15	Repair Lined Channel	\$320,000.00	\$250,000.00			Jun-19
	20 Erosion Control and Repair	\$5,000.00	\$5,000.00			Jun-19
	21 Provide/Maintain Dust Control					
	25 Clean Detention Debris Basins					
FA 35	Fence Repair	\$20,000.00	\$20,000.00	\$719.20		Jun-19
	40 Vegetation Control - Chemical					
FA 45	Vegetation Control - Mechanical	\$173,000.00	\$173,000.00			Jun-19
	50 Maintain Access Road	\$2,000.00	\$2,000.00			Jun-19
	55 Clean & Inspect Inlet/Outlet Structures					
	60 Repair Inlet/Outlet Structures					
	65 Clean Storm Sewer Lines					
FA 70	Storm Sewer Repair	\$5,000.00	\$5,000.00			Jun-19
FA 75	Clean/Flush Culverts & Bridges	\$5,000.00	\$5,000.00			Jun-19
FA 80	Miscellaneous Work Activities	\$10,000.00	\$80,000.00	\$70,124.50		Jun-19
FA 85	Engineering	\$30,000.00	\$30,000.00	\$12,974.95		Jun-19
TOTALS		\$700,000.00	\$700,000.00	\$84,300.65	12.0%	

Delays or Problem Areas:

Work completed during prior Fiscal Year:

Bi-annual vegetation control and erosion control along the Las Vegas Wash. Repaired Mat along Las Vegas Wash between Washington Avenue and Stewart Avenue (LVMD 1120 - 1178) for erosion control. Removed sediments and trash.

Work to be completed during current Fiscal Year:

Provide bi-annual vegetation control. Continue with the sediment removal. Routine maintenance work activities.

Consultant/Contractor: N/A
 Project Manager: Oh Sang Kwon, P.E./Matthew Meyer, P.E. Phone Number: 702-229-6541

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FIRST QUARTER - FY 2018-19**

MWP Facility #: LV55
 Facility Name: Meadows/Oakey System
 MP Facility ID: LCME 0000 - 0085, MECH 0059 - 0420,
MEAL 0000 - 0258, MEPA 0000 - 0025, MEOK 0000 - 0217

Entity: City of Las Vegas
 Date Prepared: 10/23/2018

Force Account/Contract	Activity	Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date *
FA	03 Facility Assessment and Inventory	\$10,000.00				Jun-19
	05 Inspect Channels	\$1,000.00				Jun-19
	06 Inspect Levees/Detention and Debris Basins	\$1,000.00				Jun-19
	08 Species Survey and Removal	\$2,000.00				Jun-19
FA	10 Clean and Reshape Channels/Levees	\$10,000.00		\$494.50		Jun-19
FA	15 Repair Lined Channel	\$6,000.00				Jun-19
	20 Erosion Control and Repair	\$10,000.00				Jun-19
	21 Provide/Maintain Dust Control					
FA	25 Clean Detention Debris Basins	\$10,000.00				Jun-19
	35 Fence Repair	\$2,000.00				Jun-19
	40 Vegetation Control - Chemical	\$2,000.00				Jun-19
	45 Vegetation Control - Mechanical	\$5,000.00				Jun-19
FA	50 Maintain Access Road	\$5,000.00				Jun-19
FA	55 Clean & Inspect Inlet/Outlet Structures	\$8,000.00				Jun-19
FA	60 Repair Inlet/Outlet Structures	\$8,000.00				Jun-19
	65 Clean Storm Sewer Lines	\$2,000.00				Jun-19
FA	70 Storm Sewer Repair	\$10,000.00				Jun-19
FA	75 Clean/Flush Culverts & Bridges	\$1,000.00				Jun-19
FA	80 Miscellaneous Work Activities	\$2,000.00				Jun-19
FA	85 Engineering	\$5,000.00		\$2,452.06		Jun-19
TOTALS		\$100,000.00	\$0.00	\$2,946.56	2.9%	

Delays or Problem Areas:

Work completed during prior Fiscal Year:

Removed sediment from Oakey DB and Meadows DB. Repaired spillway erosions at Oakey DB. Vegetation control and repair spalling in the spillway in the Meadows DB. Routine maintenance work activities.

Work to be completed during current Fiscal Year:

Continue to repair and clean storm drain facilities. Remove sediment and vegetation from the detention basins. Repair embankment erosions in the detention basins. Routine maintenance work activities.

Consultant/Contractor: N/A
 Project Manager: Oh Sang Kwon, P.E./Matthew Meyer, P.E. Phone Number: 702-229-6541

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FIRST QUARTER - FY 2018-19**

MWP Facility #: LV56
 Facility Name: Washington Ave/Las Vegas Creek System
 MP Facility ID: LCLT 0000 - 0034, WAPR 0000 - 0132, FWRR 0000-0010
FWUP 0000 - 0100, LVWH 0086 - 0484, FWR2 0000-0020
FW15 0000 - 0301, FWOK 0000 - 0100, FWWL 0000,
FWCH 0000 - 0060, FWSH 0000, LCCH 0513 - 0543,
LCLO 0000 - 0054, WAGC 0000 - 0060, CHRA 0000 - 0014

Entity: City of Las Vegas
 Date Prepared: 10/23/2018

Force Account/Contract	Activity	Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date *
FA 03	Facility Assessment and Inventory	\$10,000.00				Jun-19
FA 05	Inspect Channels	\$10,000.00				Jun-19
06	Inspect Levees/Detention and Debris Basins	\$2,000.00				Jun-19
08	Species Survey and Removal					
FA 10	Clean and Reshape Channels/Levees	\$60,000.00				Jun-19
FA 15	Repair Lined Channel	\$50,000.00				Jun-19
20	Erosion Control and Repair	\$5,000.00				Jun-19
21	Provide/Maintain Dust Control					
25	Clean Detention Debris Basins	\$10,000.00				Jun-19
35	Fence Repair	\$5,000.00				Jun-19
40	Vegetation Control - Chemical	\$2,000.00				Jun-19
45	Vegetation Control - Mechanical	\$2,000.00				Jun-19
50	Maintain Access Road	\$1,000.00				Jun-19
FA 55	Clean & Inspect Inlet/Outlet Structures	\$20,000.00				Jun-19
FA 60	Repair Inlet/Outlet Structures	\$5,000.00		\$137.14		Jun-19
FA 65	Clean Storm Sewer Lines	\$15,000.00		\$1,430.00		Jun-19
FA 70	Storm Sewer Repair	\$10,000.00				Jun-19
FA 75	Clean/Flush Culverts & Bridges	\$5,000.00				Jun-19
FA 80	Miscellaneous Work Activities	\$5,000.00				Jun-19
FA 85	Engineering	\$8,000.00		\$290.97		Jun-19
TOTALS		\$225,000.00	\$0.00	\$1,858.11	0.8%	

Delays or Problem Areas:

Work completed during prior Fiscal Year:

Removed and cleared vegetation from the Rainbow Detention Basins. Fixed embankment erosion in the detention basin. Removed sediments and cleared vegetation from the Freeway Channel openings along I-15 and Veterans Memorial Drive. Routine maintenance work activities.

Work to be completed during current Fiscal Year:

Perform repair and cleaning of storm drain facilities. Remove sediments and clear vegetation from the Freeway Channel openings along I-15 and Veterans Memorial Drive. Clean Las Vegas Creek Channel. Routine maintenance work activities.

Consultant/Contractor: N/A

Project Manager: Oh Sang Kwon, P.E./Matthew Meyer, P.E. Phone Number: 702-229-6541

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
FIRST QUARTER - FY 2018-19**

MWP Facility #: LV57
 Facility Name: US95/OuterBeltway/Ann Road System
 MP Facility ID: RCHO 0000 - 0071, ANWE 0127 - 0385, CNWE 0020-0314
RCHB 0171 - 0275, RCHB 0120, RCHB 0000-0083, RCBC 0000-0140
EKDB 0000 - 0070, GOAN 0000 - 0061, GOAN 0065-0127
CNGT 0000 - 0247, CNKC 0000 - 0024, LVMD 2324 - 2789
EKHU 0000 - 0023, BCHU 0000 - 0054, ANRB 0000
MSNV 0000, LVMJ 0000-0100, LVDE 0000-0027
CN95 0199 - 0333, EKBU 0000, LVMD 3313-3316
RACO 0000-0064, BRDB 0000-0043, TSDB 0000-0012

Entity: City of Las Vegas
 Date Prepared: 10/23/2018

Force Account/Contract	Activity	Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
FA 03	Facility Assessment and Inventory	\$10,000.00	\$10,000.00			Jun-19
05	Inspect Channels	\$5,000.00	\$5,000.00			Jun-19
06	Inspect Levees/Detention and Debris Basins	\$5,000.00	\$5,000.00			Jun-19
08	Species Survey and Removal	\$2,000.00	\$2,000.00			Jun-19
10	Clean and Reshape Channels/Levees	\$5,000.00	\$5,000.00			Jun-19
FA 15	Repair Lined Channel	\$50,000.00	\$50,000.00			Jun-19
FA 20	Erosion Control and Repair	\$105,000.00	\$105,000.00			Jun-19
FA 21	Provide/Maintain Dust Control	\$50,000.00	\$50,000.00			Jun-19
FA 25	Clean Detention Debris Basins	\$400,000.00	\$400,000.00			Jun-19
FA 35	Fence Repair	\$20,000.00	\$20,000.00	\$1,318.80		Jun-19
40	Vegetation Control - Chemical	\$5,000.00	\$5,000.00			Jun-19
45	Vegetation Control - Mechanical	\$5,000.00	\$5,000.00			Jun-19
FA 50	Maintain Access Road	\$50,000.00	\$50,000.00			Jun-19
FA 55	Clean & Inspect Inlet/Outlet Structures	\$20,000.00	\$20,000.00			Jun-19
FA 60	Repair Inlet/Outlet Structures	\$100,000.00	\$90,000.00			Jun-19
FA 65	Clean Storm Sewer Lines	\$20,000.00	\$20,000.00			Jun-19
FA 70	Storm Sewer Repair	\$20,000.00	\$20,000.00			Jun-19
FA 75	Clean/Flush Culverts & Bridges	\$10,000.00	\$10,000.00			Jun-19
FA 80	Miscellaneous Work Activities	\$10,000.00	\$10,000.00			Jun-19
FA 85	Engineering	\$8,000.00	\$18,000.00	\$12,661.92		Jun-19
TOTALS		\$900,000.00	\$900,000.00	\$13,980.72	1.6%	

Delays or Problem Areas:

Work completed during prior Fiscal Year:

Removed debris, sediment, and vegetation control in various detention basins. Provided maintenance access road to the inlets and outlets of the Elkhorn Springs Detention Basin. Repaired embankment erosion in Floyd Lamb DB. Routine maintenance work activities.

Work to be completed during current Fiscal Year:

Sediment and vegetation removal from the detention basins. Repair damaged control of access. Address State Dam Safety repair request. Inspect and repair CC215 Channel. Routine maintenance work activities.

Consultant/Contractor: N/A
 Project Manager: Oh Sang Kwon, P.E./Matthew Meyer, P.E. Phone Number: 702-229-6541

REGIONAL FLOOD CONTROL DISTRICT
 MAINTENANCE WORK PROGRAM
 QUARTERLY STATUS REPORT - FY 2018-2019

MWP Facility #: ME01
 Facility Name: Mesquite Town Wash
 MP Facility ID: TOWA 0000-0201

Entity: City of Mesquite
 Date Prepared: 10/17/2018
 Quarter: 1st Jul/Aug/Sep

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	03 Facility Assessment and Inventory					
	05 Inspect Channels	\$ 300.00		\$ 86.72		
	06 Inspect Levees/Detention and Debris Basins					
	08 Species Survey and Removal					
	10 Clean and Reshape Channels/Levees	\$ 6,900.00		\$ 802.40		
	15 Repair Lined Channel	\$ 3,000.00				
	20 Erosion Control and Repair					
	21 Provide/Maintain Dust Control					
	25 Clean Detention Debris Basins					
	35 Fence Repair					
	40 Vegetation Control - Chemical	\$ 3,800.00				
	45 Vegetation Control - Mechanical	\$ 2,000.00				
	50 Maintain Access Road					
	55 Clean & Inspect Inlet/Outlet Structures					
	60 Repair Inlet/Outlet Structures					
	65 Clean Storm Sewer Lines					
	70 Storm Sewer Repair					
	75 Clean/Flush Culverts & Bridges					
	80 Miscellaneous Work Activities	\$ 3,000.00				
	85 Engineering					
	90 Homeless Encampment Cleanup					
	TOTALS	\$19,000.00	\$0.00	\$889.12	5%	30-Jun-19

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Consultant/ Contractor: N/A
 Project Manager: 
 Bill Tanner - PW Director
 Phone Number: 702-346-5237

REGIONAL FLOOD CONTROL DISTRICT
 MAINTENANCE WORK PROGRAM
 QUARTERLY STATUS REPORT - FY 2018-2019

MWP Facility #: ME02
 Facility Name: Abbott Wash Channel
 MP Facility ID: ABWA 0000-0233


Entity: City of Mesquite
 Date Prepared: 10/24/2018
 Quarter: 1st Jul/Aug/Sep

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	03 Facility Assessment and Inventory					
	05 Inspect Channels	\$ 300.00		\$ 86.72		
	06 Inspect Levees/Detention and Debris Basins					
	08 Species Survey and Removal					
	10 Clean and Reshape Channels/Levees	\$ 3,000.00				
	15 Repair Lined Channel					
	20 Erosion Control and Repair	\$ 3,000.00				
	21 Provide/Maintain Dust Control	\$ 2,000.00				
	25 Clean Detention Debris Basins					
	35 Fence Repair					
	40 Vegetation Control - Chemical	\$ 2,500.00				
	45 Vegetation Control - Mechanical	\$ 1,000.00				
	50 Maintain Access Road					
	55 Clean & Inspect Inlet/Outlet Structures					
	60 Repair Inlet/Outlet Structures					
	65 Clean Storm Sewer Lines					
	70 Storm Sewer Repair					
	75 Clean/Flush Culverts & Bridges	\$ 500.00				
	80 Miscellaneous Work Activities	\$ 2,000.00				
	85 Engineering					
	90 Homeless Encampment Cleanup					
	TOTALS	\$14,300.00	\$0.00	\$86.72	1%	30-Jun-19

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Consultant/ Contractor: N/A
 Project Manager: 
 Bill Tanner - PW Director
 Phone Number: 702-346-5237

REGIONAL FLOOD CONTROL DISTRICT
 MAINTENANCE WORK PROGRAM
 QUARTERLY STATUS REPORT - FY 2018-2019

MWP Facility #: ME04
 Facility Name: Town Wash Detention Basin
 MP Facility ID: TOWA 0237-0267 & MNTP 0000

Entity: City of Mesquite
 Date Prepared: 10/24/2018
 Quarter: 1st Jul/Aug/Sep

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	03 Facility Assessment and Inventory					
	05 Inspect Channels					
	06 Inspect Levees/Detention and Debris Basins	\$ 2,600.00		\$ 350.00		
	08 Species Survey and Removal					
	10 Clean and Reshape Channels/Levees					
	15 Repair Lined Channel					
	20 Erosion Control and Repair					
	21 Provide/Maintain Dust Control	\$ 4,000.00		\$ 4,000.00		
	25 Clean Detention Debris Basins	\$ 275,000.00		\$ 80,360.00		
	35 Fence Repair					
	40 Vegetation Control - Chemical					
	45 Vegetation Control - Mechanical					
	50 Maintain Access Road	\$ 800.00				
	55 Clean & Inspect Inlet/Outlet Structures	\$ 1,000.00				
	60 Repair Inlet/Outlet Structures					
	65 Clean Storm Sewer Lines					
	70 Storm Sewer Repair					
	75 Clean/Flush Culverts & Bridges					
	80 Miscellaneous Work Activities	\$ 4,000.00		\$ 197.05		
	85 Engineering	\$ 5,000.00				
	90 Homeless Encampment Cleanup					
TOTALS		\$292,400.00	\$0.00	\$84,907.05	29%	30-Jun-19

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Consultant/ Contractor: N/A
 Project Manager: 
 Bill Tanner - PW Director
 Phone Number: 702-346-5237

REGIONAL FLOOD CONTROL DISTRICT
 MAINTENANCE WORK PROGRAM
 QUARTERLY STATUS REPORT - FY 2018-2019

MWP Facility #: ME07
 Facility Name: Pulsipher Wash
 MP Facility ID: PUWA 0000-0164

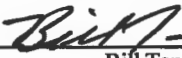
Entity: City of Mesquite
 Date Prepared: 10/24/2018
 Quarter: 1st Jul/Aug/Sep

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	03 Facility Assessment and Inventory					
	05 Inspect Channels	\$ 300.00	\$ 300.00	\$ 86.72		
	06 Inspect Levees/Detention and Debris Basins					
	08 Species Survey and Removal					
	10 Clean and Reshape Channels/Levees	\$ 14,000.00	\$ 14,000.00			
	15 Repair Lined Channel					
	20 Erosion Control and Repair	\$ 7,000.00	\$ 7,000.00			
	21 Provide/Maintain Dust Control	\$ 2,000.00	\$ 2,000.00			
	25 Clean Detention Debris Basins					
	35 Fence Repair					
	40 Vegetation Control - Chemical	\$ 3,000.00	\$ 2,036.34			
	45 Vegetation Control - Mechanical		\$ 963.66	\$ 963.66		
	50 Maintain Access Road					
	55 Clean & Inspect Inlet/Outlet Structures					
	60 Repair Inlet/Outlet Structures					
	65 Clean Storm Sewer Lines					
	70 Storm Sewer Repair					
	75 Clean/Flush Culverts & Bridges					
	80 Miscellaneous Work Activities	\$ 3,100.00	\$ 3,100.00	\$ 149.90		
	85 Engineering					
	90 Homeless Encampment Cleanup					
	TOTALS	\$29,400.00	\$29,400.00	\$1,200.28	4%	30-Jun-19

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Consultant/ Contractor: N/A
 Project Manager: 
 Bill Tanner - PW Director

Phone Number: 702-346-5237

REGIONAL FLOOD CONTROL DISTRICT
 MAINTENANCE WORK PROGRAM
 QUARTERLY STATUS REPORT - FY 2018-2019

MWP Facility #: ME08
 Facility Name: Abbott Wash Detention Basin
 MP Facility ID: ABWA 0234-0236


Entity: City of Mesquite
 Date Prepared: 10/24/2018
 Quarter: 1st Jul/Aug/Sep

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	03 Facility Assessment and Inventory					
	05 Inspect Channels					
	06 Inspect Levees/Detention and Debris Basins	\$ 2,500.00	\$ 2,500.00	\$ 350.00		
	08 Species Survey and Removal					
	10 Clean and Reshape Channels/Levees					
	15 Repair Lined Channel					
	20 Erosion Control and Repair	\$ 5,000.00	\$ 4,400.00			
	21 Provide/Maintain Dust Control	\$ 2,000.00	\$ 2,600.00	\$ 2,600.00		
	25 Clean Detention Debris Basins	\$ 40,000.00	\$ 40,000.00	\$ 16,575.00		
	35 Fence Repair					
	40 Vegetation Control - Chemical	\$ 1,000.00	\$ 1,000.00			
	45 Vegetation Control - Mechanical					
	50 Maintain Access Road	\$ 1,000.00	\$ 1,000.00			
	55 Clean & Inspect Inlet/Outlet Structures	\$ 2,500.00	\$ 2,500.00			
	60 Repair Inlet/Outlet Structures					
	65 Clean Storm Sewer Lines					
	70 Storm Sewer Repair					
	75 Clean/Flush Culverts & Bridges					
	80 Miscellaneous Work Activities	\$ 1,000.00	\$ 1,000.00	\$ 704.28		
	85 Engineering	\$ 5,000.00	\$ 5,000.00			
	90 Homeless Encampment Cleanup					
	TOTALS	\$60,000.00	\$60,000.00	\$20,229.28	34%	30-Jun-19

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Consultant/ Contractor: N/A
 Project Manager: 
 Bill Tanner - PW Director
 Phone Number: 702-346-5237

REGIONAL FLOOD CONTROL DISTRICT
 MAINTENANCE WORK PROGRAM
 QUARTERLY STATUS REPORT - FY 2018-2019

MWP Facility #: ME09
 Facility Name: Pulsipher Wash Detention Basin
 MP Facility ID: PUWA 0166-0168

Entity: City of Mesquite
 Date Prepared: 10/24/2018
 Quarter: 1st Jul/Aug/Sep

Force Account/Contract	Activity	Approved Work Plan Amount (\$)	Amended Work Plan Amount (\$)	Expended To Date (\$)	Percent Complete	Scheduled Completion Date
	03 Facility Assessment and Inventory					
	05 Inspect Channels					
	06 Inspect Levees/Detention and Debris Basins	\$ 2,500.00	\$ 2,500.00	\$ 350.00		
	08 Species Survey and Removal					
	10 Clean and Reshape Channels/Levees					
	15 Repair Lined Channel					
	20 Erosion Control and Repair	\$ 7,700.00	\$ 7,155.54			
	21 Provide/Maintain Dust Control	\$ 2,000.00	\$ 2,000.00	\$ 1,300.00		
	25 Clean Detention Debris Basins	\$ 10,000.00	\$ 10,000.00	\$ 5,100.00		
	35 Fence Repair					
	40 Vegetation Control - Chemical	\$ 1,000.00	\$ 1,000.00			
	45 Vegetation Control - Mechanical	\$ 1,000.00	\$ 1,000.00			
	50 Maintain Access Road					
	55 Clean & Inspect Inlet/Outlet Structures	\$ 2,500.00	\$ 2,500.00			
	60 Repair Inlet/Outlet Structures					
	65 Clean Storm Sewer Lines					
	70 Storm Sewer Repair					
	75 Clean/Flush Culverts & Bridges					
	80 Miscellaneous Work Activities	\$ 1,000.00	\$ 1,544.46	\$ 1,544.46		
	85 Engineering	\$ 2,000.00	\$ 2,000.00			
	90 Homeless Encampment Cleanup					
	TOTALS	\$29,700.00	\$29,700.00	\$8,294.46	28%	30-Jun-19

Delays or problem areas:

Work completed during current quarter:

Work to be completed during next quarter:

Consultant/ Contractor: N/A
 Project Manager: 
 Bill Tanner - PW Director
 Phone Number: 702-346-5237

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV01
 Facility Name: Las Vegas Wash - "N" Channel
 MP Facility ID: LVNC 0001-0164

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ -		\$ -	0.00	0.00		
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ 23,500.00	(7,500.00)	\$ 16,000.00	0.00	16,000.00	0%	
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ -		\$ -	0.00	0.00		
	21 Provide/Maintain Dust Control	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	25 Clean Detention/Debris Basin	\$ -		\$ -	0.00	0.00		
	35 Fence Repair	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	40 Vegetation Control - Chemical	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	45 Vegetation Control - Mechanical	\$ -		\$ -	0.00	0.00		
	50 Maintain Access Road	\$ 7,500.00		\$ 7,500.00	0.00	7,500.00	0%	
	55 Clean & Inspect Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,075.00		\$ 14,075.00	0.00	14,075.00	0%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 1,500.00		\$ 1,500.00	0.00	1,500.00	0%	
	80 Miscellaneous Work Activities	\$ 24,000.00	(2,500.00)	\$ 21,500.00	781.33	20,718.67	4%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 77,575.00	(10,000.00)	\$ 67,575.00	\$ 781.33	66,793.67		06/30/19

Delays or problem areas: Removed many encampments.

Work completed during prior fiscal year: Cleaned the vegetation and reshaped channel, cleaned the outlet structures and provided maintenance of access roads.

Work to be completed during current fiscal year: Clean upper access roadway removing vegetation with mechanical equipment, clean outlet structures. Remove other vegetation and graffiti throughout. Fencing needs will be repaired.

Consultant/
 Contractor:
 Project
 Manager: John Runiks

633-1267

**REGIONAL FLOOD CONTROL DISTRICT
MAINTENANCE WORK PROGRAM
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV02
 Facility Name: Las Vegas Wash - Middle
 MP Facility ID: LVMD 1648-1877

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ -		\$ -	0.00	0.00		
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ 23,500.00	(5,000.00)	\$ 18,500.00	13,371.78	5,128.22	72%	
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	21 Provide/Maintain Dust Control	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	25 Clean Detention/Debris Basin	\$ -		\$ -	0.00	0.00		
	35 Fence Repair	\$ 19,000.00	(5,000.00)	\$ 14,000.00	1,511.13	12,488.87	11%	
	40 Vegetation Control - Chemical	\$ 9,000.00		\$ 9,000.00	0.00	9,000.00	0%	
	45 Vegetation Control - Mechanical	\$ 15,000.00	(5,000.00)	\$ 10,000.00	0.00	10,000.00	0%	
	50 Maintain Access Road	\$ 17,500.00	(5,000.00)	\$ 12,500.00	0.00	12,500.00	0%	
	55 Clean & Inspect Inlet/Outlet Structures	\$ 5,000.00		\$ 5,000.00	0.00	5,000.00	0%	
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,071.00	(5,000.00)	\$ 9,071.00	0.00	9,071.00	0%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 5,000.00		\$ 5,000.00	0.00	5,000.00	0%	
	80 Miscellaneous Work Activities	\$ 36,500.00	(12,405.62)	\$ 24,094.38	6,625.64	17,468.74	27%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 152,571.00	(37,405.62)	\$ 115,165.38	21,508.55	93,656.83		06/30/19

Delays or problem areas: Removed many encarnpments.

Work completed during prior fiscal year: Staff has completed major vegetation removal and maintenance of the access roads and cleaned the trash within the channel. Major fence repairs were required.

Work to be completed during current fiscal year: Staff will clean all of the channels within and provide maintenance of all access roads. Repair fences, concrete, and erosion as needed, and remove vegetation, debris and graffiti throughout.

Consultant/
 Contractor:
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV03
 Facility Name: Las Vegas Wash - King Charles Channel
 MP Facility ID: LVKC 0000-0097

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ -		\$ -	0.00	0.00		
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ 4,000.00		\$ 4,000.00	0.00	4,000.00	0%	
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	21 Provide/Maintain Dust Control	\$ -		\$ -	0.00	0.00		
	25 Clean Detention/Debris Basin	\$ -		\$ -	0.00	0.00		
	35 Fence Repair	\$ 2,000.00		\$ 2,000.00	1,680.86	319.14	84%	
	40 Vegetation Control - Chemical	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	45 Vegetation Control - Mechanical	\$ -		\$ -	0.00	0.00		
	50 Maintain Access Road	\$ 1,000.00		\$ 1,000.00	0.00	1,000.00	0%	
	55 Clean & Inspect Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,071.00		\$ 14,071.00	0.00	14,071.00	0%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	80 Miscellaneous Work Activities	\$ 26,500.00		\$ 26,500.00	9,015.05	17,484.95	34%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	57,071.00	0.00	\$ 57,071.00	\$ 10,695.91	46,375.09		06/30/19
Delays or problem areas: Removed many encampments.								
Work completed during prior fiscal year: General maintenance was completed.								
Work to be completed during current fiscal year: Clean vegetation, graffiti and debris from the channel, repair fencing as needed, and clean inlets and outlets.								

Consultant/
 Contractor:
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV04
 Facility Name: Vandenberg Detention Basin
 MP Facility ID: RWWE 0055-0350, RWWE 0363, RWRR 0000-0092,
 RWWA 0000-0104, RWLA 0000-0647, RWCC 0000

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amerided Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ 1,500.00		\$ 1,500.00	0.00	1,500.00	0%	
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ 4,000.00		\$ 4,000.00	0.00	4,000.00	0%	
	15 Repair Lined Channel	\$ 73,500.00	(38,823.26)	\$ 34,676.74	0.00	34,676.74	0%	
	20 Erosion Control and Repair	\$ 13,000.00	(3,000.00)	\$ 10,000.00	0.00	10,000.00	0%	
	21 Provide/Maintain Dust Control	\$ 10,000.00	(3,000.00)	\$ 7,000.00	0.00	7,000.00	0%	
	25 Clean Detention/Debris Basin	\$ 8,000.00		\$ 8,000.00	0.00	8,000.00	0%	
	35 Fence Repair	\$ 13,000.00	(3,000.00)	\$ 10,000.00	0.00	10,000.00	0%	
	40 Vegetation Control - Chemical	\$ 5,000.00		\$ 5,000.00	757.26	4,242.74	15%	
	45 Vegetation Control - Mechanical	\$ 1,000.00		\$ 1,000.00	0.00	1,000.00	0%	
	50 Maintain Access Road	\$ 1,500.00		\$ 1,500.00	0.00	1,500.00	0%	
	55 Clean & Inspect Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,071.00	(4,000.00)	\$ 10,071.00	0.00	10,071.00	0%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	80 Miscellaneous Work Activities	\$ 23,000.00	(7,500.00)	\$ 15,500.00	459.63	15,040.37	3%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 172,071.00	(59,323.26)	\$ 112,747.74	\$ 1,216.89	111,530.85		06/30/19

Delays or problem areas: Removed many encampments.

Work completed during prior fiscal year: Staff provided erosion control, dust control, fence repairs and vegetation removal along embankment slopes and access roads. Staff cleaned, inspected and maintained channels, inlet and outlet structures, and removed debris and graffiti as needed.

Work to be completed during current fiscal year: Staff will provide erosion control, dust control, fence repairs and vegetation removal along embankment slopes and access roads. Staff will clean, inspect and maintain channels, inlet and outlet structures, and remove debris and graffiti as needed. All the concrete work on the Vandenberg Channel between Lone Mountain & Craig Road will be removed and replaced as it's severely in need of replacement.

Consultant/
 Contractor: _____
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV05
 Facility Name: North Las Vegas Detention Basin
 MP Facility ID: LVUP 0388-0405, EKEA0000,0013

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ 4,500.00		\$ 4,500.00	0.00	4,500.00	0%	
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ -		\$ -	0.00	0.00		
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ -		\$ -	0.00	0.00		
	21 Provide/Maintain Dust Control	\$ 20,000.00	(5,000.00)	\$ 15,000.00	0.00	15,000.00	0%	
	25 Clean Detention/Debris Basin	\$ 80,000.00	(27,000.00)	\$ 53,000.00	0.00	53,000.00	0%	
	35 Fence Repair	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	40 Vegetation Control - Chemical	\$ -		\$ -	0.00	0.00		
	45 Vegetation Control - Mechanical	\$ 43,000.00	(10,517.14)	\$ 32,482.86	0.00	32,482.86	0%	
	50 Maintain Access Road	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	55 Clean & Inspect Inlet/Outlet Structures	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ -		\$ -	0.00	0.00		
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ -		\$ -	0.00	0.00		
	80 Miscellaneous Work Activities	\$ 21,500.00		\$ 21,500.00	2,280.94	19,219.06	11%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 177,500.00	(42,517.14)	\$ 134,982.86	\$ 2,280.94	132,701.92		06/30/19

Delays or problem areas:

Work completed during prior fiscal year: Staff provided erosion control, dust control as needed, fence repairs as needed, provided vegetation removal, cleaned inlets and outlets and maintained access roads.

Work to be completed during current fiscal year: Staff will provide erosion control, maintain dust control, maintain access roads, clean outlets and inlets, remove vegetation and graffiti, and provide fence repairs.

Consultant/
 Contractor: _____
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV06
 Facility Name: Upper Las Vegas Wash Detention Basin and Moccasin Levee
 MP Facility ID: LVUP 0908-1077

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ 5,500.00		\$ 5,500.00	0.00	5,500.00	0%	
	8 Species Survey and Removal	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	10 Clean and Reshape Channel/Levees	\$ 8,000.00		\$ 8,000.00	0.00	8,000.00	0%	
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ 40,000.00	81,787.10	\$ 121,787.10	121,787.10	0.00	100%	
	21 Provide/Maintain Dust Control	\$ 20,000.00		\$ 20,000.00	0.00	20,000.00	0%	
	25 Clean Detention/Debris Basin	\$ 40,000.00	108,081.88	\$ 148,081.88	148,081.88	0.00	100%	
	35 Fence Repair	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	40 Vegetation Control - Chemical	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	45 Vegetation Control - Mechanical	\$ 5,500.00		\$ 5,500.00	0.00	5,500.00	0%	
	50 Maintain Access Road	\$ 1,500.00		\$ 1,500.00	0.00	1,500.00	0%	
	55 Clean & Inspect Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ -		\$ -	0.00	0.00		
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ -		\$ -	0.00	0.00		
	80 Miscellaneous Work Activities	\$ 20,500.00		\$ 20,500.00	2,020.18	18,479.82	10%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 151,500.00	189,868.98	\$ 341,368.98	\$ 271,889.16	69,479.82		06/30/19

Delays or problem areas: Worked with Las Vegas to remove debris being dumped.

Work completed during prior fiscal year: Staff provided erosion control, dust control as needed, fence repairs, vegetation removal, cleaned inlet and outlet structures, maintained access roads and provided scheduled maintenance on the levee.

Work to be completed during current fiscal year: Specific items needing attention include erosion on north side of levee, bottom of DB, and along Decatur; silt build-up inside DB and grading of inside basin access road; and vandalism in outlet structure. Conditions have worsened since Fall 2017 inspection. Staff will provide erosion and dust control, remove vegetation, provide fence repairs, clean outlets and inlets, maintain access roads and inspect/monitor levee.

Consultant/
 Contractor:
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV07
 Facility Name: Carey/Lake Mead Detention Basin
 MP Facility ID: LVLN 0000-0270, LVCS0000-0015

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ -		\$ -	0.00	0.00		
	6 Inspect Levees/Detention Basin & Debris Basins	\$ 1,800.00		\$ 1,800.00	0.00	1,800.00	0%	
	8 Species Survey and Removal	\$ 1,500.00		\$ 1,500.00	0.00	1,500.00	0%	
	10 Clean and Reshape Channel/Levees	\$ -		\$ -	0.00	0.00		
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ 15,000.00	(1,933.17)	\$ 13,066.83	0.00	13,066.83	0%	
	21 Provide/Maintain Dust Control	\$ 10,000.00		\$ 10,000.00	0.00	10,000.00	0%	
	25 Clean Detention/Debris Basin	\$ 12,000.00		\$ 12,000.00	0.00	12,000.00	0%	
	35 Fence Repair	\$ 6,500.00		\$ 6,500.00	0.00	6,500.00	0%	
	40 Vegetation Control - Chemical	\$ 5,000.00		\$ 5,000.00	0.00	5,000.00	0%	
	45 Vegetation Control - Mechanical	\$ 10,000.00		\$ 10,000.00	4,755.24	5,244.76	48%	
	50 Maintain Access Road	\$ -		\$ -	0.00	0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$ 5,000.00		\$ 5,000.00	0.00	5,000.00	0%	
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,071.00	1,933.17	\$ 16,004.17	16,004.17	0.00	100%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	80 Miscellaneous Work Activities	\$ 19,700.00		\$ 19,700.00	0.00	19,700.00	0%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 103,071.00	0.00	\$ 103,071.00	\$ 20,759.41	82,311.59		06/30/19

Delays or problem areas: Removed many encampments.

Work completed during prior fiscal year: Staff provided erosion control, cleaned trash and debris, and removed vegetation from rocky areas. Fencing was repaired, cleaned outlet structures, maintained access road, and provided major dust control. We were able to clean out one of two box culverts due to the size that comes from NLV 15.

Work to be completed during current fiscal year: Staff will provide dust control, vegetation removal, and repair damage fencing as needed. Clean along perimeter fence, and repair erosion along outer slopes. Boxes will be cleaned.

Consultant/
 Contractor: _____
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV08
 Facility Name: Gowan Outfall Channel
 MP Facility ID: GOOF 0000-0224, GOGR 0000-0080,
 GOLO 0000-0100

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ -		\$ -	0.00	0.00		
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ -		\$ -	0.00	0.00		
	21 Provide/Maintain Dust Control	\$ -		\$ -	0.00	0.00		
	25 Clean Detention/Debris Basin	\$ -		\$ -	0.00	0.00		
	35 Fence Repair	\$ 5,000.00		\$ 5,000.00	0.00	5,000.00	0%	
	40 Vegetation Control - Chemical	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	45 Vegetation Control - Mechanical	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	50 Maintain Access Road	\$ -		\$ -	0.00	0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,071.00		\$ 14,071.00	0.00	14,071.00	0%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 8,000.00		\$ 8,000.00	0.00	8,000.00	0%	
	80 Miscellaneous Work Activities	\$ 24,000.00	(4,000.00)	\$ 20,000.00	0.00	20,000.00	0%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 61,571.00	(4,000.00)	\$ 57,571.00	\$ -	57,571.00		06/30/19

Delays or problem areas: Removed many encampments.

Work completed during prior fiscal year: Repaired fencing, provided vegetation removal using mower, and maintained access roads.

Work to be completed during current fiscal year: Staff will remove any trash and debris, repair fencing, maintain access roads, remove vegetation and graffiti and clean inlet and outlet structures.

Consultant/
 Contractor: _____
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV10
 Facility Name: Upper Las Vegas Wash
 MP Facility ID: LVUP 0446-0493

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ -		\$ -	0.00	0.00		
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ -		\$ -	0.00	0.00		
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ -		\$ -	0.00	0.00		
	21 Provide/Maintain Dust Control	\$ -		\$ -	0.00	0.00		
	25 Clean Detention/Debris Basin	\$ -		\$ -	0.00	0.00		
	35 Fence Repair	\$ -		\$ -	0.00	0.00		
	40 Vegetation Control - Chemical	\$ -		\$ -	0.00	0.00		
	45 Vegetation Control - Mechanical	\$ -		\$ -	0.00	0.00		
	50 Maintain Access Road	\$ -		\$ -	0.00	0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ -	2,018.95	\$ 2,018.95	2,018.95	0.00	100%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ -		\$ -	0.00	0.00		
	80 Miscellaneous Work Activities	\$ 22,000.00	(4,018.95)	\$ 17,981.05	0.00	17,981.05	0%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 23,000.00	(2,000.00)	\$ 21,000.00	\$ 2,018.95	18,981.05		06/30/19

Delays or problem areas:

Work completed during prior fiscal year: Staff provided erosion control, dust control, and removed vegetation.

Work to be completed during current fiscal year: Staff will remove any debris and trash, and remove vegetation and provide erosion and dust control within the channel. Maintain restricted access roads by clearing out any vegetation and adding any regrinds to mitigate any dust activities.

Consultant/
 Contractor:
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV11
 Facility Name: Clayton Street Channel
 MP Facility ID: LV03 0000-0131, LVSM 0000-0109

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ -		\$ -	0.00	0.00		
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ 5,000.00		\$ 5,000.00	0.00	5,000.00	0%	
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ -		\$ -	0.00	0.00		
	21 Provide/Maintain Dust Control	\$ -		\$ -	0.00	0.00		
	25 Clean Detention/Debris Basin	\$ -		\$ -	0.00	0.00		
	35 Fence Repair	\$ 4,500.00		\$ 4,500.00	0.00	4,500.00	0%	
	40 Vegetation Control - Chemical	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	45 Vegetation Control - Mechanical	\$ -		\$ -	0.00	0.00		
	50 Maintain Access Road	\$ -		\$ -	0.00	0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,071.00		\$ 14,071.00	1,710.80	12,360.20	12%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 1,000.00		\$ 1,000.00	0.00	1,000.00	0%	
	80 Miscellaneous Work Activities	\$ 22,000.00	(5,000.00)	\$ 17,000.00	1,256.44	15,743.56	7%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 52,571.00	(5,000.00)	\$ 47,571.00	\$ 2,967.24	44,603.76		06/30/19

Delays or problem areas: Removed many encampments.

Work completed during prior fiscal year: Staff repaired fencing, provided vegetation removal, and cleaned inlet and outlet structures.

Work to be completed during current fiscal year: Staff will provide fencing repairs as needed, provide vegetation removal, and clean inlet and outlet structures. Repair erosion at mid channel west side shoulder and at Tropical Parkway at the back of sidewalk.

Consultant/
 Contractor:
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV12
 Facility Name: Lower Las Vegas Detention Basin
 MP Facility ID: LVMD 1905-2055

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	8 Species Survey and Removal	\$ 1,500.00		\$ 1,500.00	0.00	1,500.00	0%	
	10 Clean and Reshape Channel/Levees	\$ -		\$ -	0.00	0.00		
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ 15,000.00	(5,000.00)	\$ 10,000.00	0.00	10,000.00	0%	
	21 Provide/Maintain Dust Control	\$ 10,000.00		\$ 10,000.00	0.00	10,000.00	0%	
	25 Clean Detention/Debris Basin	\$ 10,000.00	27,405.62	\$ 37,405.62	37,405.62	0.00	100%	
	35 Fence Repair	\$ 6,500.00		\$ 6,500.00	0.00	6,500.00	0%	
	40 Vegetation Control - Chemical	\$ 7,000.00		\$ 7,000.00	0.00	7,000.00	0%	
	45 Vegetation Control - Mechanical	\$ -		\$ -	0.00	0.00		
	50 Maintain Access Road	\$ 1,000.00		\$ 1,000.00	0.00	1,000.00	0%	
	55 Clean & Inspect Inlet/Outlet Structures	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,071.00		\$ 14,071.00	0.00	14,071.00	0%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 2,500.00		\$ 2,500.00	0.00	2,500.00	0%	
	80 Miscellaneous Work Activities	\$ 20,500.00	(5,000.00)	\$ 15,500.00	0.00	15,500.00	0%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 94,071.00	17,405.62	\$ 111,476.62	\$ 37,405.62	74,071.00		06/30/19

Delays or problem areas: Removed many encampments.

Work completed during prior fiscal year: Staff provided erosion control, fencing repairs, removed vegetation, cleaned inlet and outlet structures, maintained access roads, and removed large amount of trash and debris from rain events.

Work to be completed during current fiscal year: Staff will remove trash and debris, provide fencing repairs as needed, maintain access roads, clear out vegetation, clean inlet and outlet structures, and remediate any rills within the embankment. Remove/clean vegetation, trash, and debris north of pedestrian bridge, and repair erosion on south abutment slope and north of pedestrian bridge.

Consultant/
 Contractor: _____
 Project
 Manager: John Runiks

633-1267

55

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV13
 Facility Name: West Trib - Ranch House Rd to Lower LV DB
 MP Facility ID: ANWE 0000-0122, CNWE 0000
LVMD 2060-2322, GTEA0000-0139, AVHR0050

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ -		\$ -	0.00	0.00		
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ 6,000.00		\$ 6,000.00	0.00	6,000.00	0%	
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	21 Provide/Maintain Dust Control	\$ -		\$ -	0.00	0.00		
	25 Clean Detention/Debris Basin	\$ -		\$ -	0.00	0.00		
	35 Fence Repair	\$ 4,000.00		\$ 4,000.00	0.00	4,000.00	0%	
	40 Vegetation Control - Chemical	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	45 Vegetation Control - Mechanical	\$ -		\$ -	0.00	0.00		
	50 Maintain Access Road	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	55 Clean & Inspect Inlet/Outlet Structures	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,071.00		\$ 14,071.00	7,850.49	6,220.51	56%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	80 Miscellaneous Work Activities	\$ 21,000.00		\$ 21,000.00	9,884.32	11,115.68	47%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 58,071.00	0.00	\$ 58,071.00	\$ 17,734.81	40,336.19		06/30/19

Delays or problem areas: Removed many encampments.

Work completed during prior fiscal year: Repaired fencing, provided vegetation removal, cleaned inlet and outlet structures, and maintained access roads.

Work to be completed during current fiscal year: Staff will remove any trash and debris, provide fencing repairs, maintain access roads, clear out vegetation, and clean inlets and outlets. Repair continuous access road erosion and rebuild berm at Clayton.

Consultant/
 Contractor:
 Project
 Manager: John Runiks

633-1267

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**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV14
 Facility Name: Tributary to the Western Trib @ Craig Road
 MP Facility ID: LV06 0000-0147, LV05 0000-0131,
 LVBR 0000-0014, LVCL 0000

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ -		\$ -	0.00	0.00		
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ 5,500.00		\$ 5,500.00	0.00	5,500.00	0%	
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ -		\$ -	0.00	0.00		
	21 Provide/Maintain Dust Control	\$ -		\$ -	0.00	0.00		
	25 Clean Detention/Debris Basin	\$ -		\$ -	0.00	0.00		
	35 Fence Repair	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	40 Vegetation Control - Chemical	\$ 4,500.00		\$ 4,500.00	0.00	4,500.00	0%	
	45 Vegetation Control - Mechanical	\$ -		\$ -	0.00	0.00		
	50 Maintain Access Road	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	55 Clean & Inspect Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,071.00		\$ 14,071.00	0.00	14,071.00	0%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	80 Miscellaneous Work Activities	\$ 21,000.00	(5,000.00)	\$ 16,000.00	1,324.30	14,675.70	8%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 54,571.00	(5,000.00)	\$ 49,571.00	\$ 1,324.30	48,246.70		06/30/19

Delays or problem areas: Removed many encampments.

Work completed during prior fiscal year: Repaired fencing, provided vegetation removal, cleaned inlet and outlet structures and maintained access roads.

Work to be completed during current fiscal year: Staff will remove vegetation, trash and debris, provide fencing repairs, maintain access roads, and clean inlet and outlet structures. Repair any concrete damage from NLV02 to NLV12, and maintain the joint seals throughout the channels.

Consultant/
 Contractor:
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2013-2019**

MWP Facility #: NLV15
 Facility Name: Las Vegas Wash - Smoke Ranch
 MP Facility ID: LVSR 0000-0295, LAAT 0000-0204,
 LANO 0000, LAAS 0000-0103

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ -		\$ -	0.00	0.00		
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	21 Provide/Maintain Dust Control	\$ -		\$ -	0.00	0.00		
	25 Clean Detention/Debris Basin	\$ -		\$ -	0.00	0.00		
	35 Fence Repair	\$ -		\$ -	0.00	0.00		
	40 Vegetation Control - Chemical	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	45 Vegetation Control - Mechanical	\$ -		\$ -	0.00	0.00		
	50 Maintain Access Road	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	55 Clean & Inspect Inlet/Outlet Structures	\$ 2,500.00		\$ 2,500.00	0.00	2,500.00	0%	
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,071.00		\$ 14,071.00	0.00	14,071.00	0%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 1,000.00		\$ 1,000.00	0.00	1,000.00	0%	
	80 Miscellaneous Work Activities	\$ 20,000.00	(5,000.00)	\$ 15,000.00	306.42	14,693.58	2%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 50,571.00	(5,000.00)	\$ 45,571.00	\$ 306.42	45,264.58		06/30/19

Delays or problem areas:

Work completed during prior fiscal year: Repaired fencing, removed vegetation, cleaned storm drains, and outlet and inlet structures, and maintained access roads.

Work to be completed during current fiscal year: Staff will remove trash and debris, provide fencing repairs as needed, maintain access roads, remove vegetation, clean inlet and outlet structures, and clean/inspect storm drains. Repair erosion along east side of channel and along entire channel bottom.

Consultant/
 Contractor:
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18**

MWP Facility #: NLV16
 Facility Name: Upper Las Vegas Wash Channel
 MP Facility ID: LVLO 0000-0025, TREA 0000-0134, LVUP 0000-0392,
CNEA 0000-0176, ANEA 0000-0040, LV5C 0000-0063

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ -		\$ -	0.00	0.00		
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ 1,000.00		\$ 1,000.00	0.00	1,000.00	0%	
	15 Repair Lined Channel	\$ 106,573.00	(21,269.96)	\$ 85,303.04	0.00	85,303.04	0%	
	20 Erosion Control and Repair	\$ -		\$ -	0.00	0.00		
	21 Provide/Maintain Dust Control	\$ -		\$ -	0.00	0.00		
	25 Clean Detention/Debris Basin	\$ -		\$ -	0.00	0.00		
	35 Fence Repair	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	40 Vegetation Control - Chemical	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	45 Vegetation Control - Mechanical	\$ -		\$ -	0.00	0.00		
	50 Maintain Access Road	\$ -		\$ -	0.00	0.00		
	55 Clean & Inspect Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,071.00		\$ 14,071.00	3,616.87	10,454.13	26%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 52,000.00		\$ 52,000.00	0.00	52,000.00	0%	
	80 Miscellaneous Work Activities	\$ 20,000.00		\$ 20,000.00	3,267.78	16,732.22	16%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 201,644.00	(21,269.96)	\$ 180,374.04	\$ 6,884.65	173,489.39		06/30/19

Delays or problem areas: Removed many encampments.

Work completed during prior fiscal year: Staff provided trash and debris removal, repaired fencing as needed, maintained access roads, removed vegetation and graffiti as needed, and cleaned storm drains, channels, and culverts. Repaired damaged steps between Deer Springs & Lawrence.

Work to be completed during current fiscal year: Staff will provide trash and debris removal, repair fencing as needed, maintain access roads, remove vegetation and graffiti as needed, and clean storm drains, channels and culverts. Using maintenance funds, the channel between Camino Eldorado & Revere Street will be lined and free of gabion rocks making an easier clean up, and removed the stench from the complaints received from the community.

Consultant/
 Contractor: _____
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV17
 Facility Name: Range Wash - Las Vegas Wash Diversion & Levee
 MP Facility ID: LVRW 0000-0293

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	6 Inspect Levees/Detention Basin & Debris Basins	\$ 1,500.00		\$ 1,500.00	0.00	1,500.00	0%	
	8 Species Survey and Removal	\$ 1,500.00		\$ 1,500.00	0.00	1,500.00	0%	
	10 Clean and Reshape Channel/Levees	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ 106,000.00	(15,758.62)	\$ 90,241.38	47,436.71	42,804.67	53%	
	21 Provide/Maintain Dust Control	\$ 25,000.00		\$ 25,000.00	0.00	25,000.00	0%	
	25 Clean Detention/Debris Basin	\$ -		\$ -	0.00	0.00		
	35 Fence Repair	\$ -		\$ -	0.00	0.00		
	40 Vegetation Control - Chemical	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	45 Vegetation Control - Mechanical	\$ -		\$ -	0.00	0.00		
	50 Maintain Access Road	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	55 Clean & Inspect Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ -		\$ -	0.00	0.00		
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ -		\$ -	0.00	0.00		
	80 Miscellaneous Work Activities	\$ 20,000.00		\$ 20,000.00	0.00	20,000.00	0%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 162,000.00	(15,758.62)	\$ 146,241.38	\$ 47,436.71	98,804.67		06/30/19

Delays or problem areas:

Work completed during prior fiscal year: Staff provided major erosion control, fencing repairs, vegetation removal and dust control.

Work to be completed during current fiscal year: Clear access route into DB, repair erosion on embankment slopes, provide fencing repairs, remove vegetation, and provide dust control as needed. Staff will also maintain access roads, monitor and inspect levee.

Consultant/
 Contractor: _____
 Project
 Manager: John Runiks

633-1267

**Regional Flood Control District
Maintenance Work Program
1st Qtr, Jul'18-Sept'18
FY 2018-2019**

MWP Facility #: NLV18
 Facility Name: Cheyenne Peaking Basin
 MP Facility ID: LVMD 1594-1647

Entity: City of North Las Vegas
 Date Prepared: 10/18/18

Force Account/ Contract	Activity	Requested Work Plan Amount (\$)	Reallocation Amount (\$)	Amended Work Plan Amount (\$)	Expended to Date (\$)	Balance Remaining (\$)	Percent Complete	Scheduled Completion Date
	3 Facility Assessment and Inventory	\$ 500.00		\$ 500.00	0.00	500.00	0%	
	5 Inspect Channels	\$ -		\$ -	0.00	0.00		
	6 Inspect Levees/Detention Basin & Debris Basins	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	8 Species Survey and Removal	\$ -		\$ -	0.00	0.00		
	10 Clean and Reshape Channel/Levees	\$ -		\$ -	0.00	0.00		
	15 Repair Lined Channel	\$ -		\$ -	0.00	0.00		
	20 Erosion Control and Repair	\$ -		\$ -	0.00	0.00		
	21 Provide/Maintain Dust Control	\$ -		\$ -	0.00	0.00		
	25 Clean Detention/Debris Basin	\$ 10,000.00	2,224.41	\$ 12,224.41	12,224.41	0.00	100%	
	35 Fence Repair	\$ 5,000.00		\$ 5,000.00	0.00	5,000.00	0%	
	40 Vegetation Control - Chemical	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	45 Vegetation Control - Mechanical	\$ 3,500.00		\$ 3,500.00	0.00	3,500.00	0%	
	50 Maintain Access Road	\$ 3,000.00		\$ 3,000.00	0.00	3,000.00	0%	
	55 Clean & Inspect Inlet/Outlet Structures	\$ 1,500.00		\$ 1,500.00	0.00	1,500.00	0%	
	60 Repair Inlet/Outlet Structures	\$ -		\$ -	0.00	0.00		
	65 Clean Storm Sewer Lines	\$ 14,071.00		\$ 14,071.00	0.00	14,071.00	0%	
	70 Storm Sewer Repair	\$ -		\$ -	0.00	0.00		
	75 Clean/Flush Culverts & Bridges	\$ 2,000.00		\$ 2,000.00	0.00	2,000.00	0%	
	80 Miscellaneous Work Activities	\$ 23,000.00	(2,224.41)	\$ 20,775.59	0.00	20,775.59	0%	
	90 Homeless Encampment Cleanup	\$ -		\$ -	0.00	0.00		
	TOTALS	\$ 68,071.00	0.00	\$ 68,071.00	\$ 12,224.41	55,846.59		06/30/19

Delays or problem areas: Removed many encampments.

Work completed during prior fiscal year: Staff provided erosion control, dust control, fencing repairs, vegetation removal, cleaned inlet and outlet structures and maintained access roads.

Work to be completed during current fiscal year: Staff will provide dust control as needed, maintain access roads, and clean inlet and outlet structures. Remove/clean trash and debris in dam diverters and in channel, and remove vegetation in basin bottom, basin outlet grate, and on upper road south of Civic Center. Remove graffiti and repair fence at end of Bulloch.

Consultant/
 Contractor:
 Project
 Manager: John Runiks

633-1267

61

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

**INTERLOCAL AGREEMENT
ESTABLISH AN EQUITABLE FUNDING MECHANISM FOR ROUTINE MAINTENANCE
OF CHANNELS THROUGH THE CLUB AT SUNRISE GOLF COURSE**

RECOMMENDATION SUMMARY

STAFF: Approve.

TECHNICAL ADVISORY: Approve.

CITIZENS ADVISORY: Approve.

**RFCD AGENDA
ITEM #09
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT

AGENDA ITEM

SUBJECT: INTERLOCAL AGREEMENT
PETITIONER: STEVEN C. PARRISH, P.E., GENERAL MANAGER/CHIEF ENGINEER
RECOMMENDATION OF PETITIONER: THAT THE BOARD APPROVE AN INTERLOCAL AGREEMENT BETWEEN CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (DISTRICT) AND CLARK COUNTY TO ESTABLISH AN EQUITABLE FUNDING MECHANISM FOR ROUTINE MAINTENANCE OF CHANNELS THROUGH THE CLUB AT SUNRISE GOLF COURSE (FOR POSSIBLE ACTION)

FISCAL IMPACT: \$180,000 annually

BACKGROUND:

On October 10, 2013, the Board of Directors approved an interlocal contract to fund the construction and construction management of the Las Vegas Wash – Sloan Channel to Bonanza Road and Flamingo Wash below Nellis Boulevard project. Construction of the project was completed in March 2015. This project included improvements to increase the storm carrying capacity of a section of the Las Vegas Wash and a section of the Flamingo Wash through the Desert Rose Golf Course, now known as the Club at Sunrise Golf Course.

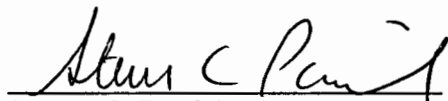
The design of the project was completed by Clark County Public Works (CCPW) with input from Clark County Parks and Recreation (CC P&R) to conform to the existing land use of a public golf course. The channels were engineered with a reinforced turf lining. A maintenance and operation plan was developed by Clark County’s consultant to define the maintenance responsibilities of CCPW and CC P&R regarding the channels through the golf course and the golf course itself.

TAC AGENDA ITEM #07 Date: 10/25/18	RFCD AGENDA ITEM # 09 Date: 11/08/18
CAC AGENDA ITEM #07 Date: 10/29/18	

Annually, the District establishes a budget for the maintenance and operations of completed flood control facilities, subject to approval by the District Board of Directors. This Interlocal Agreement (ILA) will establish an equitable funding mechanism for routine maintenance of the channels through the Club at Sunrise Golf Course utilizing the funds allocated in the separate annual operations and maintenance interlocal agreement with Clark County. Funding for continued maintenance and operations of these channels shall be requested by Clark County in accordance with this ILA in their annual interlocal agreement maintenance budget request, subject to approval of the District's Board of Directors.

It is requested that the District Board of Directors approve this Interlocal Agreement setting forth the responsibilities of the District and Clark County to maintain the Las Vegas Wash and the Flamingo Wash through the Club at Sunrise Golf Course.

Respectfully submitted,



Steven C. Parrish, P.E.
General Manager/Chief Engineer

TAC AGENDA ITEM #07 Date: 10/25/18	RFCD AGENDA ITEM # 09 Date: 11/08/18
CAC AGENDA ITEM #07 Date: 10/29/18	

**INTERLOCAL AGREEMENT
BETWEEN
CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
AND
CLARK COUNTY**

THIS INTERLOCAL AGREEMENT (hereinafter "AGREEMENT") is entered into this _____ day of _____, 20__ by and between the Clark County Regional Flood Control District (hereinafter "CCRFC") and Clark County (hereinafter "COUNTY") through its' Departments of Public Works (hereinafter "CCPW") and Parks and Recreation (hereinafter "CC P&R") and individually referred to as "Party" or collectively referred to as the "Parties."

RECITALS

WHEREAS, CCRFC is a planning and funding agency established in accordance with Nevada Revised Statute 543 with the mission to improve the protection of life and property for existing residents, future residents and visitors from the impacts of flooding while also protecting the environment;

WHEREAS, CCRFC provides funding to entities in Southern Nevada including COUNTY for the design, construction and maintenance of flood control facilities reflected on the 2013 *Las Vegas Valley Master Plan Update* (2013 LVVMPU);

WHEREAS, a project design was initiated by CCPW and input was provided from CC P&R to improve the storm flow carrying capacity of a section of the Las Vegas Wash (LVMD 0908 through 1031 on 2013 LVVMPU) and a section of the Flamingo Wash (FLWA 0001 through 0005 on 2013 LVVMPU) through the Club at Sunrise Golf Course (formerly known as the Desert Rose Golf Course), which is publicly owned and operated by CC P&R;

WHEREAS, COUNTY desired to improve the channels with minimal concrete lining and to utilize reinforced turf lining where allowable based on an engineered design;

WHEREAS, maintenance requirements in terms of clean up after a storm event and control of sediment build up are more difficult and expensive for a reinforced turf channel compared to other channel lining types;

WHEREAS, a maintenance and operation plan was developed by the COUNTY'S consultant that defines the responsibilities of CCPW and CC P&R regarding the channels through the golf course and the golf course itself;

WHEREAS, CCRFC establishes a budget with each member agency including COUNTY for the maintenance and operations of completed flood control facilities, subject to approval by CCRFC Board of Directors;

WHEREAS, CCRFCD and COUNTY enter into an interlocal agreement annually, for maintenance funding to be provided by CCRFCD to COUNTY for the maintenance and operations of the completed flood control facilities;

WHEREAS, it is desirable by all Parties to establish an equitable funding mechanism for the routine maintenance of the channels through the municipal golf course utilizing the funds allocated in the interlocal agreement set forth above and, subject to approval by CCRFCD's Board of Directors, budget funds annually for CCRFCD's share of the maintenance funding for use by COUNTY;

NOW, THEREFORE, the Parties agree as follows:

AGREEMENT

Article I. – BUDGET AND FUNDING

A. A report prepared by CC P&R and/or the Clark County Department of Finance detailing actual expenditures for maintenance and operations for storm cleanup, debris removal and removal of sediment deposition in the Las Vegas Wash and the Flamingo Wash through the Club at Sunrise shall be provided to CCPW as eligible expenditures arise during the fiscal year (July 1 through June 30).

B. CCPW shall submit an invoice voucher along with the report in accordance with the annual maintenance work program interlocal agreement between COUNTY and CCRFCD. CCRFCD agrees to reimburse COUNTY for expenditures detailed in the report required per Article I.A. up to \$60,000 for Flamingo Wash and \$120,000 for Las Vegas Wash. The total reimbursement amount shall not exceed \$180,000 annually. These amounts are based on costs for typical channel maintenance in accordance with the operations and maintenance budget for these washes beyond the limits of the golf course. These dollar amounts shall be included annually by COUNTY in their proposed budget for maintenance and operations. Amounts set forth herein are subject to CCRFCD Board of Director approval on an annual basis. If said funds are not approved by CCRFCD Board of Directors in any particular year, then no funding will be available from CCRFCD for the Las Vegas Wash and Flamingo Wash sections referenced in this AGREEMENT.

C. COUNTY is responsible for transferring funds received to CC P&R. Reimbursement will only be provided within the same fiscal year of the approved budget for that year.

Article II. – LIMITATIONS OF EXPENDITURES

A. Funds received by COUNTY from CCRFCD shall only be used for maintenance and operation activities related to the Flamingo Wash and the Las Vegas Wash through the Club at Sunrise Golf Course. Activities are limited to debris clean up following storm events

throughout the fiscal year and sediment removal within the wash areas to ensure flow carrying capacities of the washes as established in the engineered design for the channels are maintained.

B. Expenditures detailed in CC P&R report required per Article I.A. in excess of the limits identified in Article I.B. will be the responsibility of COUNTY, with no reimbursement from CCRFCD.

C. Funds received by COUNTY shall not be used for maintenance or operations of the golf course or to repair storm related or other damage to the golf course that may occur outside of the limits of the Las Vegas Wash or the Flamingo Wash.

D. Minimum maintenance requirements established in the maintenance and operation plan for the golf course shall be met. Repair of damage to Las Vegas Wash or Flamingo Wash resulting from storm related impacts that affect the integrity of the channel linings and the physical ability of the channels to convey the flow as determined in the engineered design will be completed in accordance with the latest version of CCRFCD's Operations and Maintenance Manual.

Article III. – AMENDMENT, MODIFICATION, TERM AND TERMINATION

A. This AGREEMENT may be modified or amended only by written, mutual agreement of all Parties.

B. This AGREEMENT shall automatically terminate on November 7, 2023 or upon 30 days written notice to the other PARTY with or without cause.

Article IV. – APPLICABLE LAWS

The applicable statutes, regulations, policies, directives, and procedures of the State of Nevada will govern this AGREEMENT and all documents and actions pursuant to it.

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IN WITNESS WHEREOF, this AGREEMENT is executed as of the dates indicated below by CCRFCD, acting by and through its governing board, and by COUNTY, acting by and through its governing board.

Date of District Action:

REGIONAL FLOOD CONTROL DISTRICT

BY: _____
LAWRENCE L. BROWN, III, Chairman

ATTEST:

Sherry Allen
Secretary to the Board

Approved as to Form:

BY: _____
CHRISTOPHER FIGGINS
Chief Deputy District Attorney

Date of Commission Action:

COUNTY OF CLARK

BY: _____
STEVE SISOLAK, Chairman

ATTEST:

Lynn Marie Goya
County Clerk

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

FLOOD THREAT RECOGNITION SYSTEM ALERT2 UPGRADE

RECOMMENDATION SUMMARY

STAFF: Approve.

TECHNICAL ADVISORY: Approve.

CITIZENS ADVISORY: Approve.

**RFCD AGENDA
ITEM #10a
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM

SUBJECT:

FLOOD THREAT RECOGNITION SYSTEM ALERT2 UPGRADE

PETITIONER:

STEVEN C. PARRISH, P.E., GENERAL MANAGER/CHIEF ENGINEER

RECOMMENDATION OF PETITIONER:

THAT THE BOARD APPROVE AN UPGRADE OF THE FLOOD THREAT RECOGNITION SYSTEM TO THE ALERT2 PROTOCOL AND AUTHORIZE THE GENERAL MANAGER/CHIEF ENGINEER TO SIGN THE LETTER OF INTENT (FOR POSSIBLE ACTION)

FISCAL IMPACT: \$405,360.00

BACKGROUND:

Since 1989, the District has operated and maintained a Flood Threat Recognition System (FTRS). The FTRS consists of more than 200 weather stations and rain gauges throughout Clark County. The FTRS is designed to provide real-time weather data for the purpose of detecting situations which could cause flooding. The FTRS is a critical part of efforts to protect life and property from the adverse impacts of flooding in Southern Nevada. Data is used to notify emergency responders, the National Weather Service, the United States Geological Survey, and other stakeholders when conditions for flooding are developing or occurring.

Data transmissions from the FTRS gauges use a protocol called the Automated Local Evaluation in Real Time (ALERT). Originally developed in the 1970s, this protocol is increasingly being phased out by users and equipment vendors and being replaced by a protocol referred to as ALERT2. ALERT2 is the next generation protocol that has substantial advantages over the ALERT system currently being deployed for the FTRS. One of the principle benefits of upgrading to the ALERT2 protocol is that it increases the reliability and accuracy of data transmitted resulting

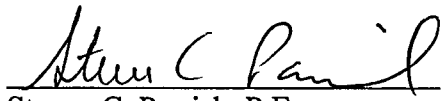
TAC AGENDA ITEM #08a Date: 10/25/18	RFCD AGENDA ITEM #10a Date: 11/08/18
CAC AGENDA ITEM #08a Date: 10/29/18	

from built in error checking. Under the current ALERT system, multiple sites may attempt to send data at the same time resulting in data collisions that can cause data errors or prevent any data from being received during large storm events when numerous stations are transmitting at the same time. The ALERT2 protocol transmits data such that collisions do not occur, resulting in more reliable data.

At this time, the District is requesting approval to utilize HydroLynx Systems, Inc. for the purchase of hardware necessary to adopt the ALERT2 protocol for the FTRS.

Pursuant to NRS 332.115, the items purchased are exempted from the requirements of the competitive bidding process. The backup includes the quotes listing the various equipment to be purchased. Purchases in excess of \$50,000 require approval of the Board of Directors. Sufficient funds are available for this purchase.

Respectfully submitted,


Steven C. Parrish, P.E.
General Manager/Chief Engineer

TAC AGENDA ITEM #08a Date: 10/25/18	RFCD AGENDA ITEM #10a Date: 11/08/18
CAC AGENDA ITEM #08a Date: 10/29/18	



September 27, 2018

Ms. Jessica Butte
Clark County Regional Flood Control District
600 South Grand Central Pkwy, Suite 300
Las Vegas, NV 89106-4511

Tel (702) 685-0000
Email JButte@regionalflood.org

Ref..... Quotation#1806Q504

Dear Jessica,

Attached is Quotation 1806Q504 to provide equipment to upgrade your ALERT1 Flood Threat Recognition System to use ALERT2 HDR technology.

The quotation is broken down into 3 phases:

1. Base station ALERT2 receiver equipment
2. Repeater upgrades to ALERT2 using existing 50386 boards and ALERT1 receiver radios
3. ALERT2 upgrade kits for 5096 and 50386 transmitters, field programming tools, solar panels, and radio programming kits

The total price for all three phases is \$405,360.00. Clark County Regional Flood Control District will order equipment in phases as needed to complete each phase. Payment terms is net 30 days after receipt of equipment, which includes shipping and handling.

The prices are valid for one (1) year from the receipt of the order for this contract only.

Delivery of all equipment in this order will be within 4.5 months from the receipt of each order.

Sincerely,

David C. Leader
Vice President

AGREED TO AND ACKNOWLEDGED BY:

Clark County Regional Flood Control District:

HydroLynx Systems, Inc.:

By: _____ Date: _____
Steven C. Parrish, P.E.
General Manager, Chief Engineer

By: _____ Date: _____
David C. Leader
Vice President



September 27, 2018

Mr. Craig McDougall
Clark County Regional Flood Control District
600 South Grand Central Pkwy, Suite 300
Las Vegas, NV 89106-4511

Tel(702) 685-0000
EmailCMcDougall@regionalflood.org

Ref.....Quotation#1806Q504

Dear Craig,

This quotation is to provide equipment to upgrade your ALERT1 flood warning system to use ALERT2 technology. You will continue to receive ALERT1 data during the upgrade period and after since the Handar ALERT1 stations will not be upgraded. We propose using the new high data rate ALERT2 receiver/decoders, repeaters and transmitters.

The quotation is broken down into 3 phases:

1. Base station ALERT2 receiver equipment
2. Repeater upgrades to ALERT2 using existing 50386 boards and ALERT1 receiver radios
3. ALERT2 upgrade kits for 5096 and 50386 transmitters, field programming tools, solar panels, and radio programming kits

Phase 1 Base station ALERT2 receiver equipment

To provide the most flexible system for future growth, we are recommending three new ALERT2 frequencies, A2F1, A2F2, and A2F3. A2F1 is the transmit frequency of the ALERT2 repeaters received by the base station. A2F2 is the transmit frequency of the local stations that do not go through repeaters and are received by the base station. A2F3 is the transmit frequency of the remote stations received by the repeaters. A1F1 is the existing ALERT1 frequency in use. The frequencies selected are:

A1F1 171.8250 MHz ALERT1 legacy frequency
A2F1 169.5125 MHz ALERT2 repeater transmit to base station
A2F2 169.4750 MHz ALERT2 local station transmit to base station
A2F3 171.8750 MHz ALERT2 remote station transmit to repeater

To receive two ALERT2 frequencies at the base station, you will need two ALERT2 receiver/decoders. The first ALERT2 receiver/decoder for frequency A2F1 169.5125 MHz will include the ALERT1 Option to receive on frequency A1F1 171.8250 MHz. The second ALERT2 receiver/decoder for frequency A2F2 169.4750 MHz does not need the ALERT1 receive option. All three receiver radios will use the existing receiver antenna and cable to the lightning arrestor. A new lightning arrestor is provided since it was part of the old ALERT1 receiver that is replaced. The receiver/decoders are connected to the antenna lightning arrestor through a receiver distribution panel. This distribution panel includes a power supply, pre-amplifier, splitter, crystal filters, and all connecting cables from the lightning arrestor to the receiver/decoders. The crystal filters will provide clean on frequency audio signals to the receivers for the life of the system. The pre-amplifier on the receive antenna cable amplifies the receive signal to overcome the crystal filter loss. The A1F1 171.8250 MHz radio frequency will be programmed in the ALERT1 radio. All three ALERT2 frequencies, A2F1, A2F2, and A2F3 will be programmed in the ALERT2 receiver radios. A rotary switch on the receiver radio selects the receiver radio frequency.

This quotation is proposing ALERT2 receiver equipment for two sites: Clark County Regional Flood Control District and NWS Las Vegas. A spare ALERT2/ALERT1 receiver/decoder with switch selectable A2F1 and A2F2 frequencies included. This spare can be used for the ALERT2 A2F2 receiver/decoder.

Phase 2 Repeater upgrades to ALERT2

We propose a change in your repeater network to add a 10 dB directional transmit antenna to separate it from the receive antenna. This eliminates the need for a power amp, duplexer, and circulator and allows the use of crystal filters on the receive antenna. Maricopa County took this approach to their 10 repeaters and removed all power amps. A separate transmit antenna also allows you the flexibility of a different transmit frequency from the receive frequency. We will supply all connecting cables and a lightning arrestor for the transmit antenna. The county will provide the mounting pole.

The existing repeater 50386 board, ALERT1 modem, and ALERT1 receiver radio will be used. All three ALERT2 frequencies, A2F1, A2F2, and A2F3 will be programmed in the receive and transmit radios. A rotary switch on the receiver radio selects the receiver radio frequency. The receiver radio programming kit is quoted as an option. A DIP switch inside the transmit radio selects the transmit radio frequency. The transmitter radio programming kit is quoted.

We are proposing the use of rack enclosures at your AC sites. Two of these AC sites will have network connectors for internet access. You can connect to repeaters with internet access to change configurations and monitor radio traffic. The solar panel/battery sites will continue to be in standpipes. All repeater upgrades will include a distribution panel which includes a power supply, pre-amplifier, splitter, crystal filters, and all connecting cables from the lightning arrestor to the repeater. The crystal filters will provide clean on frequency audio signals to the receivers for the life of the system. The pre-amplifier on the receive antenna cable amplifies the receive signal to overcome the crystal filter loss. Existing receiver antenna, lightning arrestor, and cable to lightning arrestor will be used.

Page 2 Quotation 1806Q504



Phase 3 ALERT2 upgrade kits for 5096 and 50386 transmitters

ALERT2 Upgrade kits are quoted for the HydroLynx transmitter equipment. No upgrades will be done on the Handar equipment. Instructions are provided to add the ALERT2 encoder board to the transmitter. A GPS antenna, cable and connectors are provided. Transmitter ALERT2 firmware is provided. Existing transmitter chassis, board, radio, antenna, lightning arrestor, antenna cable, solar panel, battery will be used.

HydroLynx recommends 5 Watt solar panels for 5096 transmitters and 10 Watt solar panels for 50386 transmitters. HydroLynx also recommends replacing the battery with a new 22 Amp hour battery when the upgrade is done.

The cost for HydroLynx to perform the upgrade labor is quoted as an option. The HydroLynx upgrade labor includes the ALERT2 frequency programming for the radios.

New ScadaLynx Toolbox programming is provided for ALERT2 repeater and 50386 transmitter programming.

All three ALERT2 frequencies, A2F1, A2F2, and A2F3 will be programmed in the ALERT2 receiver radios. A rotary switch on the receiver radio selects the receiver radio frequency. The receiver radio programming kit is quoted as an option. The transmitter radio frequencies must be changed to the new ALERT2 frequencies. The transmitter radio programming kit is quoted as an option.

Thank you for giving HydroLynx the opportunity to quote on your requirement. Please let me know if you have any questions, or if I can assist you in any way.

Model #	Description	Qty	Unit	Total
Phase 1 Base station ALERT2 receiver equipment for Clark County Regional Flood Control District				
5052RD-K-H	Base Station ALERT1/ALERT2 Receiver/Decoder for A2F1 Frequency Clark County Regional Flood Control District, 1 operational, 1 spare ALERT2 HDR Receiver and Decoder in Rack Mount Enclosure Ritron radio receiver (Frequency A2F1: 169.5125 MHz) ALERT2 decoder in Desktop Enclosure with rack mount brackets, ALERT2 receive data and power LEDs, 1 antenna connector for ALERT2 radio, 1 network connector for ALERT2 data, 1 serial connector for ALERT2 data, 1 serial connector for ALERT2 decoder console	2	6980.00	13,960.00
5052RD-OP1	ALERT1 Receiver/Decoder Option for ALERT2 Receiver/Decoder rack Ritron radio receiver (Frequency A1F1: 171.8250 MHz) ALERT1 decoder mounted in 5052RD-K enclosure, ALERT1 receive data LED, speaker with switch, 1 antenna connector for ALERT1 radio, 1 network connector for ALERT1 data, 1 serial connector for ALERT1 data	2	1450.00	2,900.00
5030-PS	12 Vdc Power Supply with 3-pin MS connector Recommend battery backup for AC power supply	2	110.00	220.00
5071C-NET-5E	Network cable for ALERT1/ALERT2 data and time sync, 7 feet, CAT 5e	4	55.00	220.00
	Sub-Total			\$17,300.00
5052RD-K-H	Base Station ALERT2 Receiver/Decoder for A2F2 Frequency ALERT1 option not needed. Clark County Regional Flood Control District, 1 operational ALERT2 HDR Receiver and Decoder in Rack Mount Enclosure Ritron radio receiver (Frequency A2F2: 169.4750 MHz) ALERT2 decoder in Desktop Enclosure with rack mount brackets, ALERT2 receive data and power LEDs, 1 antenna connector for ALERT2 radio, 1 network connector for ALERT2 data, 1 serial connector for ALERT2 data, 1 serial connector for ALERT2 decoder console	1	6980.00	6,980.00
5030-PS	12 Vdc Power Supply with 3-pin MS connector Recommend battery backup for AC power supply	1	110.00	110.00
5071C-NET-5E	Network cable for ALERT1/ALERT2 data and time sync, 7 feet, CAT 5e	1	55.00	55.00
	Sub-Total			\$7,145.00
5050LA	Base Station ALERT1/ALERT2 Receiver/Decoder Distribution Panel, Spare * Antenna Lightning Protection, Preamp, Splitter, Crystal Filters, Cable Pigtails	2	110.00	220.00
CRG58-NM/NM3	Antenna lightning protection	2	100.00	200.00
TWR4-150	Antenna pigtail cable, 5050LA to TWR4-150, 3 feet Receiver distribution panel (Frequency A2F1: 169.5125 MHz) includes AC power supply, preamp, 4 port splitter	2	1950.00	3,900.00
CRG58-NM/NM1	Antenna pigtail cable, TWR4-150 to TWX-150, 1 foot	6	50.00	300.00
TWX-150	Receiver crystal filter for ALERT2 radio (Frequency A2F1: 169.5125 MHz)	2	2195.00	4,390.00
TWX-150	Receiver crystal filter for ALERT2 radio (Frequency A2F2: 169.4750 MHz)	2	2195.00	4,390.00
TWX-150	Receiver crystal filter for ALERT1 radio (Frequency A1F1: 171.8250 MHz)	2	2195.00	4,390.00
CRG58-NM/BNC3	Antenna pigtail cable, TWX-150 to 5052RD-K, 3 feet	6	100.00	600.00
	Customer to use existing receive antenna and cable to 5050LA Sub-Total			\$18,390.00
	Freight (shipping and handling)			1,000.00
	Total Phase 1 Clark County Regional Flood Control District			\$43,835.00



<u>Model #</u>	<u>Description</u>	<u>Qty</u>	<u>Unit</u>	<u>Total</u>
Phase 1 Base station ALERT2 receiver equipment for National Weather Service Las Vegas				
5052RD-K-H	Base Station ALERT1/ALERT2 Receiver/Decoder for A2F1 Frequency Clark County Regional Flood Control District, 1 operational, 1 spare ALERT2 HDR Receiver and Decoder in Rack Mount Enclosure Ritron radio receiver (Frequency A2F1: 169.5125 MHz) ALERT2 decoder in Desktop Enclosure with rack mount brackets, ALERT2 receive data and power LEDs, 1 antenna connector for ALERT2 radio, 1 network connector for ALERT2 data, 1 serial connector for ALERT2 data, 1 serial connector for ALERT2 decoder console	2	6980.00	13,960.00
5052RD-OP1	ALERT1 Receiver/Decoder Option for ALERT2 Receiver/Decoder rack Ritron radio receiver (Frequency A1F1: 171.8250 MHz) ALERT1 decoder mounted in 5052RD-K enclosure, ALERT1 receive data LED, speaker with switch, 1 antenna connector for ALERT1 radio, 1 network connector for ALERT1 data, 1 serial connector for ALERT1 data	2	1450.00	2,900.00
5030-PS	12 Vdc Power Supply with 3-pin MS connector <i>Recommend battery backup for AC power supply</i>	2	110.00	220.00
5071C-NET-5E	Network cable for ALERT1/ALERT2 data and time sync, 7 feet, CAT 5e	4	55.00	220.00
	Sub-Total			\$17,300.00
Base Station ALERT2 Receiver/Decoder for A2F2 Frequency ALERT1 option not needed.				
5052RD-K-H	Clark County Regional Flood Control District, 1 operational ALERT2 HDR Receiver and Decoder in Rack Mount Enclosure Ritron radio receiver (Frequency A2F2: 169.4750 MHz) ALERT2 decoder in Desktop Enclosure with rack mount brackets, ALERT2 receive data and power LEDs, 1 antenna connector for ALERT2 radio, 1 network connector for ALERT2 data, 1 serial connector for ALERT2 data, 1 serial connector for ALERT2 decoder console	1	6980.00	6,980.00
5030-PS	12 Vdc Power Supply with 3-pin MS connector <i>Recommend battery backup for AC power supply</i>	1	110.00	110.00
5071C-NET-5E	Network cable for ALERT1/ALERT2 data and time sync, 7 feet, CAT 5e	1	55.00	55.00
	Sub-Total			\$7,145.00
Base Station ALERT1/ALERT2 Receiver/Decoder Distribution Panel, Spare Antenna Lightning Protection, Preamp, Splitter, Crystal Filters, Cable Pigtailed				
5050LA	Antenna Lightning Protection	2	110.00	220.00
CRG58-NM/NM3	Antenna pigtail cable, 5050LA to TWR4-150, 3 feet	2	100.00	200.00
TWR4-150	Receiver distribution panel (Frequency A2F1: 169.5125 MHz) includes AC power supply, preamp, 4 port splitter	2	1950.00	3,900.00
CRG58-NM/NM1	Antenna pigtail cable, TWR4-150 to TWX-150, 1 foot	6	50.00	300.00
TWX-150	Receiver crystal filter for ALERT2 radio (Frequency A2F1: 169.5125 MHz)	2	2195.00	4,390.00
TWX-150	Receiver crystal filter for ALERT2 radio (Frequency A2F2: 169.4750 MHz)	2	2195.00	4,390.00
TWX-150	Receiver crystal filter for ALERT1 radio (Frequency A1F1: 171.8250 MHz)	2	2195.00	4,390.00
CRG58-NM/BNC3	Antenna pigtail cable, TWX-150 to 5052RD-K, 3 feet	6	100.00	600.00
	<i>Customer to use existing receive antenna and cable to 5050LA</i> Sub-Total			\$18,390.00
	Freight (shipping and handling)			1,000.00
	Total Phase 1 National Weather Service Las Vegas			\$43,835.00



Model #	Description	Qty	Unit	Total
Phase 2 Repeater upgrades to ALERT2 Clark County Regional Flood Control District only				
5052RP-K3-H/TU	Angle Peak, Christmas Tree, Spare ALERT1/ALERT2 Repeater in a Rack Receives ALERT1/ALERT2, Repeats ALERT2 3 radios, 2 Antennas, 1 Preamp, 1 Splitter, 2 Crystal Filter, AC powered, Internet Alert 2 HDR Repeater in a Rack with 3 Antenna Connectors, No inputs Use customer 50386 PCB/ with 50386 PCOS, ALERT1 modem PCB, Ritron ALERT1 radio (Frequency A1F1: 171.8250 MHz) A2X HDR Repeater PCB with GPS antenna, bracket, cable and lightning protection, Ritron ALERT2 RX radio included in above unit (Frequency: A2F3 171.8750 MHz)	3	13600.00	40,800.00
50386OP-4	6 Serial Port Expansion	3	700.00	2,100.00
50386OP-14	Digital Network Interface Package	3	450.00	1,350.00
RTR-MX	Maxon ALERT2 TX radio (Frequency A2F1: 169.5125 MHz)	3	500.00	1,500.00
SAM-160	Transmit antenna, VHF-DIR 10 dB (Frequency A2F1: 169.5125 MHz)	3	250.00	750.00
CRG8-NM/NM	Transmit antenna cable, SAM-160 to 5050LA, 20 feet	3	120.00	360.00
CRG8-A	Transmit antenna cable additional length, per foot, 100 feet total	240	2.00	480.00
5050LA	Transmit antenna lightning protection	3	110.00	330.00
CRG58-NM/BNC3	Transmit antenna pigtail cable, 5050LA to 5052RP, 3 feet	3	100.00	300.00
5050LA	Receiver antenna lightning protection	3	110.00	330.00
CRG58-NM/NM3	Receiver antenna pigtail cable, 5050LA to TWR2-150, 3 feet	3	100.00	300.00
TWR2-150	Receiver distribution panel, (Frequency: A2F3 171.8750 MHz) includes AC power supply, preamp, 2 port splitter	3	1750.00	5,250.00
CRG58-NM/NM1	Receiver antenna pigtail cable, TWR2-150 to TWX-150, 1 foot	6	50.00	300.00
TWX-150	Receiver crystal filter for ALERT2 radio (Frequency: A2F3 171.8750 MHz)	3	2195.00	6,585.00
TWX-150	Receiver crystal filter for ALERT1 radio (Frequency: A1F1 171.8250 MHz)	3	2195.00	6,585.00
CRG58-NM/BNC3	Receiver antenna pigtail cable, TWR2-150 to 5052RP, 3 feet	6	100.00	600.00
5030-PS	12 Vdc Power Supply with 3-pin MS connector Recommend battery backup for AC power supply Customer to supply Receive Antenna, Antenna Cable	3	110.00	330.00
Sub-Total				\$68,250.00
Boulder City				
5052RP-K3-H/TU	ALERT1/ALERT2 Repeater in a Rack Receives ALERT1/ALERT2, Repeats ALERT2 3 radios, 2 Antennas, 1 Preamp, 1 Splitter, 2 Crystal Filter, AC powered Alert 2 HDR Repeater in a Rack with 3 Antenna Connectors, No inputs Use customer 50386 PCB/ with 50386 PCOS, ALERT1 modem PCB, Ritron ALERT1 radio (Frequency: A1F1 171.8250 MHz) A2X HDR Repeater PCB with GPS antenna, bracket, cable and lightning protection, Ritron ALERT2 RX radio included in above unit (Frequency: A2F3 171.8750 MHz)	1	13600.00	13,600.00
RTR-MX	Maxon ALERT2 TX radio (Frequency A2F1: 169.5125 MHz)	1	500.00	500.00
SAM-160	Transmit antenna, VHF-DIR 10 dB (Frequency A2F1: 169.5125 MHz)	1	250.00	250.00
CRG8-NM/NM	Transmit antenna cable, SAM-160 to 5050LA, 20 feet	1	120.00	120.00
CRG8-A	Transmit antenna cable additional length, per foot, 25 feet total	5	2.00	10.00
5050LA	Transmit antenna lightning protection	1	110.00	110.00
CRG58-NM/BNC3	Transmit antenna pigtail cable, 5050LA to 5052RP, 3 feet	1	100.00	100.00
5050LA	Receiver antenna lightning protection	1	110.00	110.00
CRG58-NM/NM3	Receiver antenna pigtail cable, 5050LA to TWR2-150, 3 feet	1	100.00	100.00
TWR2-150	Receiver distribution panel, (Frequency: A2F3 171.8750 MHz) includes AC power supply, preamp, 2 port splitter	1	1750.00	1,750.00
CRG58-NM/NM1	Receiver antenna pigtail cable, TWR2-150 to TWX-150, 1 foot	2	50.00	100.00
TWX-150	Receiver crystal filter for ALERT2 radio (Frequency: A2F3 171.8750 MHz)	1	2195.00	2,195.00
TWX-150	Receiver crystal filter for ALERT1 radio (Frequency: A1F1 171.8250 MHz)	1	2195.00	2,195.00
CRG58-NM/BNC3	Receiver antenna pigtail cable, TWR2-150 to 5052RP, 3 feet	2	100.00	200.00
5030-PS	12 Vdc Power Supply with 3-pin MS connector Recommend battery backup for AC power supply Customer to supply Receive Antenna, Antenna Cable	1	110.00	110.00
Sub-Total				\$21,450.00



Model #	Description	Qty	Unit	Total
	Mt. Potosi, Virgin Peak, Spare			
	ALERT1/ALERT2 Repeater in a Canister			
	Receives ALERT1/ALERT2, Repeats ALERT2			
	3 radios, 2 Antennas, 1 Preamp, 1 Splitter, 2 Crystal Filter, Solar powered			
5052RP-3-H/TU	Alert2 HDR Repeater in Round canister with 3 Antenna Connectors, No inputs	3	12,900.00	38,700.00
	<i>Use customer 50386 PCB/ with 50386 PCOS, ALERT1 modem PCB,</i>			
	<i>Ritron ALERT1 radio (Frequency: A1F1 171.8250 MHz)</i>			
	A2X HDR Repeater PCB with GPS antenna, bracket, cable and lightning protection,			
	Ritron ALERT2 RX radio included in above unit (Frequency: A2F3 171.8750 MHz)			
RTR-MX	Maxon ALERT2 TX radio (Frequency A2F1: 169.5125 MHz)	3	500.00	1,500.00
SAM-160	Transmit antenna, VHF-DIR 10 dB (Frequency A2F1: 169.5125 MHz)	3	250.00	750.00
50386-AMSK	Transmit antenna strap kit for SAM-160, includes HEX bushing, strain, relief	3	250.00	750.00
CRG8-NM/NM	Transmit antenna cable, SAM-160 to 5050LA, 20 feet	3	120.00	360.00
CRG8-A	Transmit antenna cable additional length, per foot, 100 feet total (Mt. Potosi, spare)	160	2.00	320.00
CRG8-A	Transmit antenna cable additional length, per foot, 25 feet total (Virgin Peak)	5	2.00	10.00
5050LA	Transmit antenna lightning protection	3	110.00	330.00
CRG58-NM/BNC3	Transmit antenna pigtail cable, 5050LA to 5052RP, 3 feet	3	100.00	300.00
CRG58-NM/NM3	Receiver antenna pigtail cable, 5050LA to TGA150-12, 3 feet	3	100.00	300.00
TGA150-12	12Vdc Antenna Preamp, with 12Vdc power cable to 5052RP-3	3	1100.00	3,300.00
CRG58-NM/NM1	Receiver antenna pigtail cable, TGA150-12 to TELPS-1502, 1 foot	3	50.00	150.00
TELPS-1502	Receiver Antenna Splitter, 2 ports	3	200.00	600.00
CRG58-NM/NM1	Receiver antenna pigtail cable, TELPS-1502 to TWX-150, 1 foot	6	50.00	300.00
TWX-150	Receiver crystal filter for ALERT2 radio (Frequency: A2F3 171.8750 MHz)	3	2195.00	6,585.00
TWX-150	Receiver crystal filter for ALERT1 radio (Frequency: A1F1 171.8250 MHz)	3	2195.00	6,585.00
CRG58-NM/BNC3	Receiver antenna pigtail cable, TWX-150 to 5052RP, 3 feet	6	100.00	600.00
	<i>Customer to supply Receive Antenna, Antenna Cable, Lightning protection, solar panel, and battery</i>			
	<i>Repeater must have a 50 Watt Solar Panel or larger</i>			
	<i>Recommend 100 Amp Hr battery</i>			
	Sub-Total			\$61,440.00
	Wildcat Wash, Spare			
	ALERT1/ALERT2 Repeater in a Canister with Precipitation Input			
	Receives ALERT1/ALERT2, Repeats ALERT2			
	3 radios, 2 Antennas, 1 Preamp, 1 Splitter, 2 Crystal Filter, Solar powered			
5052RP-3-54-H/TU	Alert2 HDR Repeater in Round canister with 3 Antenna Connectors,	2	13,100.00	26,200.00
	1 Precipitation Input, 1 SDI-12 Input			
	<i>Use customer 50386 PCB/ with 50386 PCOS, ALERT1 modem PCB,</i>			
	<i>Ritron ALERT1 radio (Frequency: A1F1 171.8250 MHz)</i>			
	A2X HDR Repeater PCB with GPS antenna, bracket, cable and lightning protection,			
	Ritron ALERT2 RX radio included in above unit (Frequency: A2F3 171.8750 MHz)			
RTR-LS	Ritron ALERT1 RX radio (Frequency: 171.825)	2	700.00	1,400.00
RTR-MX	Maxon ALERT2 TX radio (Frequency A2F1: 169.5125 MHz)	2	500.00	1,000.00
SAM-160	Transmit antenna, VHF-DIR 10 dB (Frequency A2F1: 169.5125 MHz)	2	250.00	500.00
50386-AMSK	Transmit antenna strap kit for SAM-160, includes HEX bushing, strain, relief	2	250.00	500.00
CRG8-NM/NM	Transmit antenna cable, SAM-160 to 5050LA, 20 feet	2	120.00	240.00
CRG8-A	Transmit antenna cable additional length, per foot, 25 feet total	10	2.00	20.00
5050LA	Transmit antenna lightning protection	2	110.00	220.00
CRG58-NM/BNC3	Transmit antenna pigtail cable, 5050LA to 5052RP, 3 feet	2	100.00	200.00
CRG58-NM/NM3	Receiver antenna pigtail cable, 5050LA to TGA150-12, 3 feet	2	100.00	200.00
TGA150-12	Receiver antenna preamp, with 12Vdc power cable to 5052RP-3	2	1100.00	2,200.00
CRG58-NM/NM1	Receiver antenna pigtail cable, TGA150-12 to TELPS-1502, 1 foot	2	50.00	100.00
TELPS-1502	Receiver antenna Splitter, 2 ports	2	200.00	400.00
CRG58-NM/NM1	Receiver antenna pigtail cable, TELPS-1502 to TWX-150, 1 foot	4	50.00	200.00
TWX-150	Receiver crystal filter for ALERT2 radio (Frequency: A2F3 171.8750 MHz)	2	2195.00	4,390.00
TWX-150	Receiver crystal filter for ALERT1 radio (Frequency: A1F1 171.8250 MHz)	2	2195.00	4,390.00
CRG58-NM/BNC3	Receiver antenna pigtail cable, TWX-150 to 5052RP, 3 feet	4	100.00	400.00
	<i>Customer to supply Receive Antenna, Antenna Cable, Lightning protection, solar panel, and battery</i>			
	<i>Repeater must have a 50 Watt Solar Panel or larger</i>			
	<i>Recommend 100 AmpHr battery</i>			
	Sub-Total			\$42,560.00
	Freight (shipping and handling)			3,000.00
	Total Phase 2 Clark County Regional Flood Control District only			\$196,700.00



<u>Model #</u>	<u>Description</u>	<u>Qty</u>	<u>Unit</u>	<u>Total</u>
Phase 3 ALERT2 upgrade kits for 5096 and 50386 transmitters Clark County Regional Flood Control District only				
5096/A2-H-UP	Upgrade existing 5096 Transmitter to ALERT2 Upgrade to existing 5096 Data Transmitter to ALERT2 ALERT2 HDR encoder PCB with GPS antenna, bracket, cable and lightning protection, ALERT2 9601-01 Version 5.8 EPROM Use existing Maxon Radio and Battery All sites must have a 22-amp hour battery and 5 watt solar panel Customer will do the installation of kits	50	2195.00	\$109,750.00
5096A2-ADD	Labor to add Alert2 to existing 5096	advise	200.00	advise
50386A2-H-UP	Upgrade existing 50386 Transmitter to ALERT2 Upgrade existing 50386 DCU to ALERT2 ALERT2 HDR encoder PCB with GPS antenna, bracket, cable and lightning protection, Use existing Maxon Radio and Battery All sites must have a 22-amp hour battery and 10 watt solar panel Customer will do the installation of kits	advise	2,195.00	advise
50386A2-ADD	Labor to add Alert2 to existing 50386	advise	200.00	advise
5033-0.3B	5 watt, 300mA Solar Panel, regulator and mounting bracket	20	350.00	\$7,000.00
5033-3.0B	Wildcat Wash Repeater Solar Panel 50 watt, 3.0A Solar Panel, regulator and mounting bracket	1	915.00	915.00
5073TBX	ScadaLynx Toolbox Programming software ScadaLynx Toolbox Programming software update for ALERT2	2	0.00	0.00
SD-125EPK	Radio programming kits Maxon SD-125EV Transmitter Radio Programming Kit	1	150.00	\$150.00
DTXL-PCPK	Ritron DTX-145 Receiver Radio Programming Kit	1	175.00	\$175.00
	Sub-Total Phase 3 Clark County Regional Flood Control District			\$117,990.00
	Freight (shipping and handling)			3,000.00
	Total Phase 3 Clark County Regional Flood Control District			\$120,990.00

Summary of Clark County Regional Flood Control District ALERT2 Upgrade Phases 1, 2, 3.

Phase 1 Base station ALERT2 receiver equipment for Clark County Regional Flood Control District and National Weather Service Las Vegas

Total Phase 1 Clark County Regional Flood Control District	\$43,835.00
Total Phase 1 National Weather Service Las Vegas	\$43,835.00
Grand Total Phase 1	\$87,670.00

Phase 2 Repeater upgrades to ALERT2 Clark County Regional Flood Control District only

Total Phase 2 Clark County Regional Flood Control District	\$196,700.00
Grand Total Phase 2	\$196,700.00

Phase 3 ALERT2 upgrade kits for 5096 and 50386 transmitters Clark County Regional Flood Control District only

Total Phase 3 Clark County Regional Flood Control District	\$120,990.00
Grand Total Phase 3	\$120,990.00

GRAND TOTAL Phase 1, 2, 3 Clark County Regional Flood Control District and National Weather Service Las Vegas – THIS AMOUNT INCLUDES SHIPPING AND HANDLING COSTS. **\$405,360.00**

Terms Net 30 days
 F.O.B. point West Sacramento, CA
 Delivery 120-140 days after receipt of order. Crystal filters take 120 days to grow to frequency
Prices for this contract are valid for one year after receipt of order.

Sincerely,

 David C. Leader
 Vice President

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

FLOOD THREAT RECOGNITION SYSTEM ALERT2 UPGRADE

RECOMMENDATION SUMMARY

STAFF: Approve.

TECHNICAL ADVISORY: Approve.

CITIZENS ADVISORY: Approve.

**RFCD AGENDA
ITEM #10b
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT

AGENDA ITEM

SUBJECT:
FLOOD THREAT RECOGNITION SYSTEM ALERT2 UPGRADE
PETITIONER:
STEVEN C. PARRISH, P.E., GENERAL MANAGER/CHIEF ENGINEER
RECOMMENDATION OF PETITIONER:
THAT THE BOARD APPROVE A PROFESSIONAL SERVICES AGREEMENT WITH WATER & EARTH TECHNOLOGIES FOR AN UPGRADE OF THE FLOOD THREAT RECOGNITION SYSTEM TO THE ALERT2 PROTOCOL (FOR POSSIBLE ACTION)

FISCAL IMPACT: \$73,285.00

BACKGROUND:

Since 1989, the District has operated and maintained a Flood Threat Recognition System (FTRS). The FTRS consists of more than 200 weather stations and rain gauges throughout Clark County. The FTRS is designed to provide real-time weather data for the purpose of detecting situations which could cause flooding. The FTRS is a critical part of efforts to protect life and property from the adverse impacts of flooding in Southern Nevada. Data is used to notify emergency responders, the National Weather Service, the United States Geological Survey, and other stakeholders when conditions for flooding are developing or occurring.

Data transmissions from the FTRS gauges use a protocol called the Automated Local Evaluation in Real Time (ALERT). Originally developed in the 1970s, this protocol is increasingly being phased out by users and equipment vendors and being replaced by a protocol referred to as ALERT2. ALERT2 is the next generation protocol that has substantial advantages over the ALERT system currently being deployed for the FTRS. One of the principle benefits of upgrading to the ALERT2 protocol is that it increases the reliability and accuracy of data transmitted resulting from built in error checking. Under the current ALERT system, multiple sites may attempt to send data at the same time resulting in data collisions that can cause data errors or prevent any data from

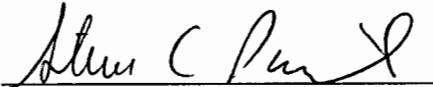
TAC AGENDA ITEM #08b Date: 10/25/18	RFCD AGENDA ITEM #10b Date: 11/08/18
CAC AGENDA ITEM #08b Date: 10/29/18	

being received during large storm events when numerous stations are transmitting at the same time. The ALERT2 protocol transmits data such that collisions do not occur, resulting in more reliable data.

At this time, the District is requesting approval to utilize Water and Earth Technologies, Inc., for the purchase, installation and configuration of hardware and training necessary to adopt the ALERT2 protocol for the FTRS.

Pursuant to NRS 332.115, the items purchased are exempted from the requirements of the competitive bidding process. The backup includes the quotes listing the various hardware and services to be purchased. Purchases in excess of \$50,000 require approval of the Board of Directors. Sufficient funds are available for this purchase.

Respectfully submitted,


Steven C. Parrish, P.E.
General Manager/Chief Engineer

TAC AGENDA ITEM #08b Date: 10/25/18	RFCD AGENDA ITEM #10b Date: 11/08/18
CAC AGENDA ITEM #08b Date: 10/29/18	

**AGREEMENT FOR PROFESSIONAL SERVICES
CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
AND
WATER & EARTH TECHNOLOGIES
FOR
ALERT2 RADIO TELEMETRY BACKBONE
IMPLEMENTATION SUPPORT**

THIS AGREEMENT is made and entered into this _____ day of _____, 2018, by and between the CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (hereinafter referred to as "DISTRICT") and Water & Earth Technologies (hereinafter referred to as "CONSULTANT"), for ALERT2 Radio Telemetry Backbone Implementation (hereinafter referred to as the "PROJECT").

WITNESSETH

WHEREAS, the DISTRICT desires to utilize CONSULTANT to design, configure and install an upgrade to the current Flood Threat Recognition System (FTRS) to process the new ALERT2 protocol; and

WHEREAS, the CONSULTANT is experienced and is knowledgeable in the completion of such works; and

WHEREAS, the CONSULTANT represents that it is properly registered and qualified in accordance with the Nevada Revised Statutes to conduct business relative to this contract and has the personnel and facilities necessary to accomplish the PROJECT within the required time; and

WHEREAS, the parties desire to set forth the responsibilities, terms, and conditions of completing the PROJECT.

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

Section I

RESPONSIBILITY OF CONSULTANT

- A. The CONSULTANT shall be responsible for the professional quality, technical accuracy, timely completion, and coordination of all services furnished by the CONSULTANT, its subcontractors and subconsultants and their principals, officers and employees, and agents under this AGREEMENT. In performing the specified services, the CONSULTANT shall follow practices consistent with generally accepted current professional and technical standards.
- B. It shall be the duty of CONSULTANT to assure that all work products are technically sound and in conformance with all pertinent and current federal, State, and local statutes, codes, ordinances, resolutions, and other. If, during the term of this AGREEMENT, there are any changes or new laws, ordinances, statutes, rules or regulations not known or foreseeable at the time of signing this AGREEMENT which become effective and which affect the cost or time of performance of the AGREEMENT, the CONSULTANT shall immediately notify DISTRICT in writing and submit detailed documentation of such effect in terms of both time and cost of performing the AGREEMENT. Upon concurrence by DISTRICT as to the effect of such changes, adjustment in time of performance and/or compensation for an increase or decrease in labor, materials, and equipment directly required to be in compliance will be made in writing. Except for an extension of time, no payment or compensation of any kind shall be made to CONSULTANT for damages caused by such changes or new laws, ordinances, statutes, rules or regulations, including, but not limited to, those which may arise due to delay, disruption, acceleration, or inefficiency. If any discrepancy or inconsistency should be discovered between this AGREEMENT and any law, ordinance, regulation, order, or decree, CONSULTANT shall immediately report the same in writing to the DISTRICT, who will issue such instruction as may be necessary. The CONSULTANT shall, without additional compensation, correct or revise any errors or deficiencies in its recommended plans, policies, designs, drawings, and other sections of the PROJECT. It is also

understood and agreed by both parties that if any variation in measurements, calculations, or observations of a quantity due to mistakes, hereinafter referred to as “erroneous work” is found, the CONSULTANT will expeditiously perform the necessary work, at no expense to the DISTRICT, to correct the erroneous work. The reviewing process by the DISTRICT during the progress of the PROJECT will not relieve the CONSULTANT’s obligation for erroneous work in the preparation of the different sections of the PROJECT. Any revisions or updates of the PROJECT after submittal would be considered outside the scope of services for this AGREEMENT.

- C. It is agreed that any and all documents prepared and submitted by the CONSULTANT to the DISTRICT, and all information required of the CONSULTANT by the AGREEMENT, become the property of the DISTRICT. The CONSULTANT may retain copies and reproducible copies of all documents produced as a result of the PROJECT. In the event of the termination of the AGREEMENT, all documents produced shall be and become the property of the DISTRICT. The CONSULTANT agrees to surrender all such documents to the DISTRICT within ten (10) business days.
- D. The CONSULTANT agrees that its officers and employees will cooperate with the DISTRICT in the performance of services under this AGREEMENT and will be available for consultation with the DISTRICT at such reasonable times and with advance notice so as to not conflict with their other responsibilities.
- E. The rights and remedies of the DISTRICT provided for under this section are in addition to any other rights and remedies provided by law or under other sections of the AGREEMENT.

Section II

DISTRICT'S RESPONSIBILITY

- A. The DISTRICT agrees that its officers and employees will cooperate with CONSULTANT in performance of services under this AGREEMENT and will be available for consultation with CONSULTANT at such reasonable times with advance notice as to not conflict with their other responsibilities.
- B. The DISTRICT will, subject to the DISTRICT's Board of Directors approval, purchase the equipment identified in Exhibit B, Equipment Purchase, which is attached hereto, and by this reference made a part of this AGREEMENT.
- C. The services performed by CONSULTANT under this AGREEMENT shall be subject to review and approval by the DISTRICT's General Manager. The DISTRICT's General Manager may delegate any or all of the General Manager's responsibilities under this AGREEMENT to appropriate staff members, and shall so inform CONSULTANT by written notice before the effective date of each such delegation.
- D. The services to be performed by the CONSULTANT under this AGREEMENT shall be subject to periodic review by the DISTRICT's General Manager for compliance with the terms of this AGREEMENT. Comments of the DISTRICT's General Manager shall be reported in writing to the CONSULTANT by the DISTRICT's General Manager or his designee. It is understood that the DISTRICT's representative comments do not relieve the CONSULTANT from the responsibility for professional and technical accuracy of all work delivered under this AGREEMENT.
- E. DISTRICT shall, without charge, furnish to or make available for examination or use by the CONSULTANT as it may request, any relevant data which the DISTRICT has available whenever such material is necessary for the completion of the services specified by this AGREEMENT.
- F. Upon written request from the CONSULTANT, the DISTRICT shall reasonably assist CONSULTANT in obtaining data and documents from public officers or agencies and

- from private citizens and business firms whenever the DISTRICT determines that such material is necessary for the completion of the services specified by the AGREEMENT.
- G. CONSULTANT will not be responsible for accuracy of information or data supplied by the DISTRICT or other sources, but will use such data to the extent such information or data would be relied upon by a reasonable prudent professional.

Section III

CONSULTANT SERVICES

- A. The CONSULTANT shall perform Task 1 through Task 7 including services discussed in the "Basic Services" as specified in Exhibit A (the Scope of Services), which is attached hereto, and by this reference made a part of this AGREEMENT. Exhibit B, Equipment Purchase, and Exhibit C, the Project Time Schedule, are attached hereto and by this reference are also made a part of this AGREEMENT.
- B. The DISTRICT may at any time, by written order, make changes within the general scope of this AGREEMENT and in the services or work to be performed by the CONSULTANT. If such changes cause an increase or decrease in the CONSULTANT's cost or time required for performance of any services under this AGREEMENT, an equitable adjustment shall be made and this AGREEMENT shall be modified in writing accordingly. Any claim of the CONSULTANT for adjustment under this clause must be asserted in writing within 30 days from the date of receipt by the CONSULTANT of notification of changes unless the DISTRICT grants a further period of time before the date of final payment under this AGREEMENT.
- C. No services for which any additional compensation will be charged by the CONSULTANT shall be furnished without the written authorization of the DISTRICT.
- D. CONSULTANT shall make every effort to avoid and minimize downtime of the DISTRICT's Flood Threat Recognition System during installation, particularly during the months of July, August and September.

Section IV

COMPENSATION AND TERMS OF PAYMENT

- A. Once each month, the DISTRICT shall pay the CONSULTANT for services performed under Section III – Consultant Services. Invoices are prepared and submitted on a monthly basis and are due upon receipt. Payment is past due thirty (30) days from the invoice date. In the event the DISTRICT fails to make any payments, the CONSULTANT may cease work immediately until payment for the invoice and service charge is made. An additional charge at the rate of 1 ½ percent per month will be charged against invoices that are past due.
- B. Compensation and Method of Payment for Engineering Services are:
1. The DISTRICT shall pay the CONSULTANT in accordance with the CONSULTANT'S Cost Breakdown, which is attached hereto as Exhibit D and by this reference made a part of this AGREEMENT.
 2. The maximum cost to the DISTRICT for Basic Services Task 1 through Task 7 including services discussed in Project Description accomplished under this AGREEMENT shall not exceed Seventy-Three Thousand, Two Hundred Eighty Five Dollars (\$73,285) unless the DISTRICT receives a written request, with justification, and the DISTRICT approves a change in the Scope of Services and an increase in compensation. Payments will be made to the CONSULTANT on a monthly basis upon receipt of a progress report and itemized invoices for work accomplished.
 3. The total amount of this AGREEMENT shall not exceed Seventy-Three Thousand, Two Hundred Eighty Five Dollars (\$73,285), unless approved by the DISTRICT in writing and a supplement to this AGREEMENT is executed by the parties.

Section V

TIME AND PERFORMANCE

- A. The Project Time Schedule for work under this AGREEMENT is attached as Exhibit C and by this reference made a part of this AGREEMENT. The CONSULTANT will perform the work within the time period specified by each work order that DISTRICT provides to CONSULTANT in accordance with said Project Time Schedule. The Project Time Schedule may be adjusted by the District if any of the equipment identified in Exhibit B is not received by the District. CONSULTANT will adjust its work schedule to accommodate the adjusted time schedule without any additional compensation.

Work shall begin immediately upon receipt by the CONSULTANT of the Notice to Proceed by General Manager or his designee. All work necessary to provide services as required by the DISTRICT within the scope of this AGREEMENT shall be completed 445 calendar days from Notice to Proceed.

- B. The DISTRICT and CONSULTANT recognize the scope of work as detailed in Exhibit A – Scope of Services and as outlined in Exhibit C – Project Time Schedule can be altered by unforeseen events that may occur. Therefore, a supplement to this AGREEMENT will be prepared, negotiated, and executed when the CONSULTANT establishes, and the DISTRICT agrees, that there has been, or is to be a significant change, including but not limited to:
1. Scope, complexity, or character of the services to be performed such as additional meetings and coordination over those identified in Exhibit A, analysis of additional alternatives, or preparation of additional reports.
 2. Conditions under which the work is required to be performed, such as a change in standards or a change in available base data that would require additional work.

3. Duration of work if the time period for completion of the work warrants such adjustment.
- C. An alteration required by the DISTRICT that results in changes in the scope of work will also be specified in a supplemental AGREEMENT that will set forth the nature and scope thereof and payment therefore.
 - D. Neither party shall be considered in default in the performance of its obligations hereunder, or any of them, to the extent that performance of such obligations, or any of them is prevented or delayed by any cause, existing or future, which is beyond the reasonable control of such party. Delays arising from the actions or inactions of one or more of the CONSULTANT's principals, officers, employees, agents, subcontractors, subconsultants, vendors, or suppliers are expressly recognized to be within the CONSULTANT's control.
 - E. This AGREEMENT shall begin on October 11, 2018 and terminate on December 31, 2019 unless it is extended before the termination date with the mutual written consent of both parties or earlier terminated pursuant to Section VI.

Section VI

MISCELLANEOUS PROVISIONS

- A. The CONSULTANT and its subconsultant(s) shall maintain all books, documents, papers, accounting reports, and other evidence pertaining to costs incurred and/or work performed and that such evidence shall be made available for inspection by the DISTRICT at all reasonable times during the AGREEMENT period for three (3) years from the date of final payment.
- B. The DISTRICT's General Manager has the right to terminate this AGREEMENT upon seven (7) days written notice to the CONSULTANT. This AGREEMENT may also be terminated by either party upon seven (7) calendar days written notice in the event of substantial failure to perform in accordance with the terms hereof by the one party through no fault of the other party. If said termination occurs prior to completion of the

PROJECT, the CONSULTANT shall deliver to the DISTRICT all documents, calculations, and all other work performed whether complete or incomplete. Thereafter, the DISTRICT will reimburse the CONSULTANT for all services performed prior to such notice, provided the services performed are satisfactory to the DISTRICT. Termination shall be by written notice, which will be sent by certified mail or hand delivered. Such notice will be deemed effective after the third business day of the mailing post date, or hand delivered, in which case such notice will be deemed effective upon receipt of the written termination to the CONSULTANT or the DISTRICT.

- C. CONSULTANT agrees to indemnify and hold harmless the DISTRICT and all the officers and employees, of the DISTRICT, and each of them, from and against any liabilities, damages, losses, claims, actions or proceedings, including, without limitation, reasonable attorneys' fees and costs, to the extent such liabilities, damages, losses, claims, actions or proceedings are caused by the negligence, errors, omissions, recklessness or intentional misconduct of the CONSULTANT, CONSULTANT's employees and/or agents, in the performance of this AGREEMENT. If the CONSULTANT is adjudicated to be liable by a trier of fact, the trier of fact shall award reasonable attorney's fees and costs to be paid to the DISTRICT, as reimbursement for the attorney's fees and costs incurred by the DISTRICT in defending the action, by the CONSULTANT in an amount which is proportionate to the liability of the CONSULTANT.

CONSULTANT further agrees to defend the DISTRICT and all the officers and employees of the DISTRICT, and each of them, from and against any and all liabilities, damages, losses, claims, actions or proceedings caused by the negligence, errors, omissions, recklessness or intentional misconduct of the CONSULTANT, and CONSULTANT's employees and/or agents, in the performance of this AGREEMENT when said liabilities, negligence, errors, omissions, recklessness or intentional misconduct are not based upon or arising out of the professional services performed under this AGREEMENT.

CONSULTANT will not be required to defend, indemnify or hold harmless the public body or the employees or officers of the DISTRICT from any liability, damage, loss, claim, action or proceeding caused by the negligence, errors, omissions, recklessness or intentional misconduct of the employees or officers of the DISTRICT.

- D. During the life of this AGREEMENT, the CONSULTANT shall not engage the services of any person or persons who are currently employed by the DISTRICT without the DISTRICT's prior approval.
- E. The CONSULTANT shall at all times maintain control over and have complete responsibility for all work performed under the AGREEMENT. Any attempted assignment of rights or delegation of duties under this AGREEMENT, without the written consent of the DISTRICT, shall be void.
- F. The CONSULTANT shall submit for review and documentation purposes copies of all subconsultant agreements.
- G. The CONSULTANT, at his own expense, shall obtain and maintain, for the duration of the AGREEMENT, insurance against claims for injuries to persons or damages to property or other losses which may arise from or in connection with CONSULTANT's sole negligence or fault in the performance of work hereunder of the CONSULTANT, his agents, representatives, employees, or subcontractors of any tier.

The CONSULTANT will provide the DISTRICT with certificates of insurance for coverage as listed below and endorsements, establishing coverage required by the AGREEMENT within ten (10) calendar days after approval of this AGREEMENT by the DISTRICT's Board. The certificate of endorsements for each insurance policy are to be signed by a person authorized by the insurer and licensed by the State of Nevada.

The CONSULTANT will:

1. Maintain commercial general liability coverage at limits of no less than \$1,000,000 combined single limit per occurrence and \$1,000,000 annual aggregate for bodily injury (including death), personal injury and property

damages. The coverage shall be on an “occurrence” basis only and not on a “claims made” basis; and the coverage must be provided on ISO commercial liability or on ISO broad form comprehensive general liability forms with no exceptions to the coverage for bodily injury, personal injury, broad form property damages, premises operations, severability of interest, products and completed operations, contractual and independent contractors. The DISTRICT, its officers, and employees must be expressly covered as additional insureds.

2. Maintain automobile coverage at limits of no less than \$1,000,000 combined single limit “per accident” for bodily injury and property damage for all owned automobiles, non-owned automobiles, hired automobiles, or any automobile. The DISTRICT, its officers, and employees, and volunteers must be expressly covered as additional insureds.
3. Maintain professional liability insurance at limits of no less than \$1,000,000 per claim and \$1,000,000 annual aggregate to insure against claims for losses arising out of the services rendered by the CONSULTANT, its agents, representatives, or employees pursuant to the CONSULTANT’s AGREEMENT with the DISTRICT. “Claims made” insurance coverage will continue for a period of three (3) years beyond the term of the AGREEMENT. Any retroactive date must coincide with or predate the date of the AGREEMENT and may not be advanced without the DISTRICT’s consent. The CONSULTANT’s professional liability insurance must provide coverage for the CONSULTANT’s subcontractor if the subcontractor does not maintain professional liability insurance in the same amounts and manner as required for the CONSULTANT.

All deductibles and self-insured retention shall be fully disclosed in the certificate of insurance. No deductible of self-insured retention may exceed \$250,000 for commercial general liability, \$250 for automobile, or \$250,000 for professional liability without the written approval of the DISTRICT. If aggregate limits are imposed on bodily injury and property damage, then the

amount of such limits must not be less than twice the amount of the limits required herein. All aggregate must be fully disclosed and the amount entered on the required certificate of insurance. Any notice given to the CONSULTANT with respect to exhaustion of limits of insurance shall also be sent to the DISTRICT. The adequacy of the insurance supplied by the CONSULTANT, including the rating and financial health of each insurance company providing coverage, is subject to the approval of the DISTRICT.

4. Maintain Nevada Industrial Insurance and Occupational Disease Acts; such insurance will protect it and the DISTRICT from claims made by the CONSULTANT due to work-related injuries.
5. The CONSULTANT's insurance shall be primary in respect to the DISTRICT, its officers, employees, and volunteers.

The insurance requirements specified herein do not relieve the CONSULTANT of its responsibility or limit the amount of its liability to the DISTRICT or other persons, and the CONSULTANT is encouraged to purchase such additional insurance as it deems necessary.

6. The insurance certificate supplied by the CONSULTANT must provide for a 30-day notice to the DISTRICT before the implementation of a proposal to cancel the required insurance coverage. This notice requirement does not waive the insurance requirements contained herein. In addition, CONSULTANT shall notify DISTRICT within thirty (30) days of any reduction in coverage or limits.
7. If the CONSULTANT fails to maintain any of the insurance coverage required herein, then the DISTRICT will have the option to either terminate the AGREEMENT; declare the CONSULTANT in breach; purchase replacement insurance; or pay the premiums that are due on existing policies in order that the required coverage may be maintained. The CONSULTANT is responsible for any expenses paid by the DISTRICT to maintain such insurance, and the

DISTRICT may collect the same from the CONSULTANT or deduct the amount paid from any sums due the CONSULTANT under this AGREEMENT.

8. The CONSULTANT shall obtain the required insurance prior to commencement of services being performed.

H. Governing Law

Nevada law shall govern the interpretation of this AGREEMENT.

I. Notice

Any notice required to be given hereunder shall be deemed to have been given when received by the party to whom it is directed by personal service, hand delivery, or U.S. mail at the following addresses:

To DISTRICT: Clark County Regional Flood Control District
600 Grand Central Parkway, Suite 300
Las Vegas, Nevada 89106
Attention: John R. Tennert
Environmental Mitigation Manager

To CONSULTANT: Water & Earth Technologies, Inc.
1225 Red Cedar Circle, Ste A
Fort Collins, CO 80524
Attention: Markus Ritsch
Vice President

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

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

By: _____ Date: _____

LAWRENCE L. BROWN, III Chairman

WATER & EARTH TECHNOLOGIES

By: _____ Date: _____

ATTEST:

By: _____ Date: _____

Sherry Allen
Secretary to the Board

APPROVED AS TO LEGALITY ONLY:

By: _____ Date: _____

Christopher Figgins
Chief Deputy District Attorney

EXHIBIT A – SCOPE OF SERVICES

ALERT2 Radio Telemetry Backbone Implementation Support for Clark County Regional Flood Control District, Nevada

Water & Earth Technologies, Inc. (WET) will provide design, configuration and installation support to the Clark County Regional Flood Control District (District) to upgrade the radio telemetry backbone and base stations to process the new ALERT2 (A2) protocol.

WET recommends that the NovaStar5 software be upgraded to run on a 64-bit platform prior to the upgrade of ALERT2 equipment in the field. The 64-bit migration was quoted to the District by TriLynx Systems, LLC in quote number 180. This quote does include a new workstation computer and 64-bit migration services for the NovaStar5 node running at the NWS.

WET assumes that the District will provide transportation to the remote repeater sites that are not accessible by vehicle.

Task 1: Base Stations (two District base stations and NWS base)

WET will complete the following work at each base station (District and the NWS)

- install rack-mount HydroLynx Model 5052RD ALERT1/ALERT2 receiver/decoder into rack inside the building,
- install rack-mount HydroLynx Model 5052RD ALERT2 receiver/decoder into rack inside the building
- make all necessary antenna, data and power connections,
- verify that the ALERT2 repeater is collecting ALERT legacy data and ALERT2 data.

Task 2: Angel Peak, Christmas Tree and Boulder City Repeaters

The following work will be completed at the repeaters:

- install GPS antenna, cables, and polyphaser,
- install distribution panel with pre-amplifier and install the rack-mount HydroLynx Model 5052RP repeater inside the building,
- make all necessary antenna, data and power connections,
- verify that the ALERT2 repeater is collecting ALERT1/ALERT2 data and transmitting ALERT2 data.

It is assumed that the District will install the new transmit antenna and run the antenna cable down into the server room.

Task 3: Mt. Potosi and Virgin Peak Repeaters

WET will complete the following work at these repeaters:

- install GPS antenna, cables, and polyphaser,
- install canister HydroLynx Model 5052RP,
- make all necessary antenna, data and power connections
- verify that the ALERT2 repeater is collecting ALERT1/ALERT2 data and transmitting ALERT2

It is assumed that the District will install the new transmit antenna and run the antenna cable down into the server room.

Task 4: Wildcat Wash Repeater

WET will complete the following work:

- install GPS antenna, cables, and polyphaser,
- install new ALERT2 transmitting antenna,
- install cannister HydroLynx Model 5052RP repeater into standpipe
- make all necessary antenna, data and power connections
- verify that the ALERT2 repeater is collecting ALERT legacy data and transmitting ALERT2 data.

Task 5: ALERT2 TDMA Planning

WET will develop the final ALERT2 TDMA management plan for the District. This plan will include development of both the repeater and remote station frame size and the determination and assignment of slots (size and offset) for each repeater and each remote station. This management plan will serve as the blue print as future stations are converted from legacy ALERT to ALERT2.

Task 6: NWS NovaStar5 Upgrade to 64-bit

WET will supply a new 64-bit workstation computer and the services to migrate the current 32-bit system to 64-bit at the NWS location.

Task 7: Upgrade Power System at Three Repeater Sites

The ALERT2 upgrade will require upgrading the power system at three repeaters. This will include larger batteries and solar panels to supply the ALERT2 transmitters. WET will supply all the batteries, battery enclosures and electrical conduit to complete the upgrade at each repeater.

The work will be completed in two phases: base station ALERT2 upgrades (Phase I) to the District and NWS base stations and repeater backbone upgrade to ALERT2 (Phase II).



September 27, 2018

EXHIBIT B – EQUIPMENT PURCHASE

Mr. Craig McDougall
Clark County Regional Flood Control District
600 South Grand Central Pkwy, Suite 300
Las Vegas, NV 89106-4511

Tel(702) 685-0000
EmailCMcDougall@regionalflood.org

Ref.....Quotation#1806Q504

Dear Craig,

This quotation is to provide equipment to upgrade your ALERT1 flood warning system to use ALERT2 technology. You will continue to receive ALERT1 data during the upgrade period and after since the Handar ALERT1 stations will not be upgraded. We propose using the new high data rate ALERT2 receiver/decoders, repeaters and transmitters.

The quotation is broken down into 3 phases:

1. Base station ALERT2 receiver equipment
2. Repeater upgrades to ALERT2 using existing 50386 boards and ALERT1 receiver radios
3. ALERT2 upgrade kits for 5096 and 50386 transmitters, field programming tools, solar panels, and radio programming kits

Phase 1 Base station ALERT2 receiver equipment

To provide the most flexible system for future growth, we are recommending three new ALERT2 frequencies, A2F1, A2F2, and A2F3. A2F1 is the transmit frequency of the ALERT2 repeaters received by the base station. A2F2 is the transmit frequency of the local stations that do not go through repeaters and are received by the base station. A2F3 is the transmit frequency of the remote stations received by the repeaters. A1F1 is the existing ALERT1 frequency in use. The frequencies selected are:

A1F1 171.8250 MHz ALERT1 legacy frequency
A2F1 169.5125 MHz ALERT2 repeater transmit to base station
A2F2 169.4750 MHz ALERT2 local station transmit to base station
A2F3 171.8750 MHz ALERT2 remote station transmit to repeater

To receive two ALERT2 frequencies at the base station, you will need two ALERT2 receiver/decoders. The first ALERT2 receiver/decoder for frequency A2F1 169.5125 MHz will include the ALERT1 Option to receive on frequency A1F1 171.8250 MHz. The second ALERT2 receiver/decoder for frequency A2F2 169.4750 MHz does not need the ALERT1 receive option. All three receiver radios will use the existing receiver antenna and cable to the lightning arrestor. A new lightning arrestor is provided since it was part of the old ALERT1 receiver that is replaced. The receiver/decoders are connected to the antenna lightning arrestor through a receiver distribution panel. This distribution panel includes a power supply, pre-amplifier, splitter, crystal filters, and all connecting cables from the lightning arrestor to the receiver/decoders. The crystal filters will provide clean on frequency audio signals to the receivers for the life of the system. The pre-amplifier on the receive antenna cable amplifies the receive signal to overcome the crystal filter loss. The A1F1 171.8250 MHz radio frequency will be programmed in the ALERT1 radio. All three ALERT2 frequencies, A2F1, A2F2, and A2F3 will be programmed in the ALERT2 receiver radios. A rotary switch on the receiver radio selects the receiver radio frequency.

This quotation is proposing ALERT2 receiver equipment for two sites: Clark County Regional Flood Control District and NWS Las Vegas. A spare ALERT2/ALERT1 receiver/decoder with switch selectable A2F1 and A2F2 frequencies included. This spare can be used for the ALERT2 A2F2 receiver/decoder.

Phase 2 Repeater upgrades to ALERT2

We propose a change in your repeater network to add a 10 dB directional transmit antenna to separate it from the receive antenna. This eliminates the need for a power amp, duplexer, and circulator and allows the use of crystal filters on the receive antenna. Maricopa County took this approach to their 10 repeaters and removed all power amps. A separate transmit antenna also allows you the flexibility of a different transmit frequency from the receive frequency. We will supply all connecting cables and a lightning arrestor for the transmit antenna. The county will provide the mounting pole.

The existing repeater 50386 board, ALERT1 modem, and ALERT1 receiver radio will be used. All three ALERT2 frequencies, A2F1, A2F2, and A2F3 will be programmed in the receive and transmit radios. A rotary switch on the receiver radio selects the receiver radio frequency. The receiver radio programming kit is quoted as an option. A DIP switch inside the transmit radio selects the transmit radio frequency. The transmitter radio programming kit is quoted.

We are proposing the use of rack enclosures at your AC sites. Two of these AC sites will have network connectors for internet access. You can connect to repeaters with internet access to change configurations and monitor radio traffic. The solar panel/battery sites will continue to be in standpipes. All repeater upgrades will include a distribution panel which includes a power supply, pre-amplifier, splitter, crystal filters, and all connecting cables from the lightning arrestor to the repeater. The crystal filters will provide clean on frequency audio signals to the receivers for the life of the system. The pre-amplifier on the receive antenna cable amplifies the receive signal to overcome the crystal filter loss. Existing receiver antenna, lightning arrestor, and cable to lightning arrestor will be used.

Page 2 Quotation 1806Q504



Phase 3 ALERT2 upgrade kits for 5096 and 50386 transmitters

ALERT2 Upgrade kits are quoted for the HydroLynx transmitter equipment. No upgrades will be done on the Handar equipment. Instructions are provided to add the ALERT2 encoder board to the transmitter. A GPS antenna, cable and connectors are provided. Transmitter ALERT2 firmware is provided. Existing transmitter chassis, board, radio, antenna, lightning arrestor, antenna cable, solar panel, battery will be used.

HydroLynx recommends 5 Watt solar panels for 5096 transmitters and 10 Watt solar panels for 50386 transmitters. HydroLynx also recommends replacing the battery with a new 22 Amp hour battery when the upgrade is done.

The cost for HydroLynx to perform the upgrade labor is quoted as an option. The HydroLynx upgrade labor includes the ALERT2 frequency programming for the radios.

New ScadaLynx Toolbox programming is provided for ALERT2 repeater and 50386 transmitter programming.

All three ALERT2 frequencies, A2F1, A2F2, and A2F3 will be programmed in the ALERT2 receiver radios. A rotary switch on the receiver radio selects the receiver radio frequency. The receiver radio programming kit is quoted as an option. The transmitter radio frequencies must be changed to the new ALERT2 frequencies. The transmitter radio programming kit is quoted as an option.

Thank you for giving HydroLynx the opportunity to quote on your requirement. Please let me know if you have any questions, or if I can assist you in any way.

<u>Model #</u>	<u>Description</u>
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Phase 1 Base station ALERT2 receiver equipment for Clark County Regional Flood Control District

5052RD-K-H	Base Station ALERT1/ALERT2 Receiver/Decoder for A2F1 Frequency Clark County Regional Flood Control District, 1 operational, 1 spare ALERT2 HDR Receiver and Decoder in Rack Mount Enclosure Ritron radio receiver (Frequency A2F1: 169.5125 MHz) ALERT2 decoder in Desktop Enclosure with rack mount brackets, ALERT2 receive data and power LEDs, 1 antenna connector for ALERT2 radio, 1 network connector for ALERT2 data, 1 serial connector for ALERT2 data, 1 serial connector for ALERT2 decoder console
5052RD-OP1	ALERT1 Receiver/Decoder Option for ALERT2 Receiver/Decoder rack Ritron radio receiver (Frequency A1F1: 171.8250 MHz) ALERT1 decoder mounted in 5052RD-K enclosure, ALERT1 receive data LED, speaker with switch, 1 antenna connector for ALERT1 radio, 1 network connector for ALERT1 data, 1 serial connector for ALERT1 data
5030-PS	12 Vdc Power Supply with 3-pin MS connector
5071C-NET-5E	Recommend battery backup for AC power supply Network cable for ALERT1/ALERT2 data and time sync, 7 feet, CAT 5e

5052RD-K-H	Base Station ALERT2 Receiver/Decoder for A2F2 Frequency ALERT1 option not needed. Clark County Regional Flood Control District, 1 operational ALERT2 HDR Receiver and Decoder in Rack Mount Enclosure Ritron radio receiver (Frequency A2F2: 169.4750 MHz) ALERT2 decoder in Desktop Enclosure with rack mount brackets, ALERT2 receive data and power LEDs, 1 antenna connector for ALERT2 radio, 1 network connector for ALERT2 data, 1 serial connector for ALERT2 data, 1 serial connector for ALERT2 decoder console
5030-PS	12 Vdc Power Supply with 3-pin MS connector
5071C-NET-5E	Recommend battery backup for AC power supply Network cable for ALERT1/ALERT2 data and time sync, 7 feet, CAT 5e

5050LA	Base Station ALERT1/ALERT2 Receiver/Decoder Distribution Panel, Spare Antenna Lightning Protection, Preamp, Splitter, Crystal Filters, Cable Pigtails Antenna Lightning Protection
CRG58-NM/NM3	Antenna pigtail cable, 5050LA to TWR4-150, 3 feet
TWR4-150	Receiver distribution panel (Frequency A2F1: 169.5125 MHz) includes AC power supply, preamp, 4 port splitter
CRG58-NM/NM1	Antenna pigtail cable, TWR4-150 to TWX-150, 1 foot
TWX-150	Receiver crystal filter for ALERT2 radio (Frequency A2F1: 169.5125 MHz)
TWX-150	Receiver crystal filter for ALERT2 radio (Frequency A2F2: 169.4750 MHz)
TWX-150	Receiver crystal filter for ALERT1 radio (Frequency A1F1: 171.8250 MHz)
CRG58-NM/BNC3	Antenna pigtail cable, TWX-150 to 5052RD-K, 3 feet
	Customer to use existing receive antenna and cable to 5050LA



Model # Description

Phase 1 Base station ALERT2 receiver equipment for National Weather Service Las Vegas

**Base Station ALERT1/ALERT2 Receiver/Decoder for A2F1 Frequency
Clark County Regional Flood Control District, 1 operational, 1 spare**

5052RD-K-H **ALERT2 HDR Receiver and Decoder in Rack Mount Enclosure**
Ritron radio receiver (Frequency A2F1: 169.5125 MHz)
ALERT2 decoder in Desktop Enclosure with rack mount brackets,
ALERT2 receive data and power LEDs,
1 antenna connector for ALERT2 radio, 1 network connector for ALERT2 data,
1 serial connector for ALERT2 data, 1 serial connector for ALERT2 decoder console

5052RD-OP1 **ALERT1 Receiver/Decoder Option for ALERT2 Receiver/Decoder rack**
Ritron radio receiver (Frequency A1F1: 171.8250 MHz)
ALERT1 decoder mounted in 5052RD-K enclosure,
ALERT1 receive data LED, speaker with switch,
1 antenna connector for ALERT1 radio, 1 network connector for ALERT1 data,
1 serial connector for ALERT1 data

5030-PS **12 Vdc Power Supply with 3-pin MS connector**

5071C-NET-5E **Recommend battery backup for AC power supply**
Network cable for ALERT1/ALERT2 data and time sync, 7 feet, CAT 5e

**Base Station ALERT2 Receiver/Decoder for A2F2 Frequency
ALERT1 option not needed.**

5052RD-K-H **Clark County Regional Flood Control District, 1 operational**
ALERT2 HDR Receiver and Decoder in Rack Mount Enclosure
Ritron radio receiver (Frequency A2F2: 169.4750 MHz)
ALERT2 decoder in Desktop Enclosure with rack mount brackets,
ALERT2 receive data and power LEDs,
1 antenna connector for ALERT2 radio, 1 network connector for ALERT2 data,
1 serial connector for ALERT2 data, 1 serial connector for ALERT2 decoder console

5030-PS **12 Vdc Power Supply with 3-pin MS connector**

5071C-NET-5E **Recommend battery backup for AC power supply**
Network cable for ALERT1/ALERT2 data and time sync, 7 feet, CAT 5e

**Base Station ALERT1/ALERT2 Receiver/Decoder Distribution Panel, Spare
Antenna Lightning Protection, Preamp, Splitter, Crystal Filters, Cable Pigtails**

5050LA **Antenna Lightning Protection**

CRG58-NM/NM3 **Antenna pigtail cable, 5050LA to TWR4-150, 3 feet**

TWR4-150 **Receiver distribution panel (Frequency A2F1: 169.5125 MHz)**
includes AC power supply, preamp, 4 port splitter

CRG58-NM/NM1 **Antenna pigtail cable, TWR4-150 to TWX-150, 1 foot**

TWX-150 **Receiver crystal filter for ALERT2 radio (Frequency A2F1: 169.5125 MHz)**

TWX-150 **Receiver crystal filter for ALERT2 radio (Frequency A2F2: 169.4750 MHz)**

TWX-150 **Receiver crystal filter for ALERT1 radio (Frequency A1F1: 171.8250 MHz)**

CRG58-NM/BNC3 **Antenna pigtail cable, TWX-150 to 5052RD-K, 3 feet**

Customer to use existing receive antenna and cable to 5050LA



Model # Description

Phase 2 Repeater upgrades to ALERT2 Clark County Regional Flood Control District only

**Angle Peak, Christmas Tree, Spare
ALERT1/ALERT2 Repeater in a Rack
Receives ALERT1/ALERT2, Repeats ALERT2
3 radios, 2 Antennas, 1 Preamp, 1 Splitter, 2 Crystal Filter, AC powered, Internet
Alert 2 HDR Repeater in a Rack with 3 Antenna Connectors, No inputs
Use customer 50386 PCB/ with 50386 PCOS, ALERT1 modem PCB,
Ritron ALERT1 radio (Frequency A1F1: 171.8250 MHz)
A2X HDR Repeater PCB with GPS antenna, bracket, cable and lightning protection,
Ritron ALERT2 RX radio included in above unit (Frequency: A2F3 171.8750 MHz)
6 Serial Port Expansion
Digital Network Interface Package**

5052RP-K3-H/TU
50386OP-4
50386OP-14
RTR-MX
SAM-160
CRG8-NM/NM
CRG8-A
5050LA
CRG58-NM/BNC3
5050LA
CRG58-NM/NM3
TWR2-150
CRG58-NM/NM1
TWX-150
TWX-150
CRG58-NM/BNC3
5030-PS

**Boulder City
ALERT1/ALERT2 Repeater in a Rack
Receives ALERT1/ALERT2, Repeats ALERT2
3 radios, 2 Antennas, 1 Preamp, 1 Splitter, 2 Crystal Filter, AC powered
Alert 2 HDR Repeater in a Rack with 3 Antenna Connectors, No inputs
Use customer 50386 PCB/ with 50386 PCOS, ALERT1 modem PCB,
Ritron ALERT1 radio (Frequency: A1F1 171.8250 MHz)
A2X HDR Repeater PCB with GPS antenna, bracket, cable and lightning protection,
Ritron ALERT2 RX radio included in above unit (Frequency: A2F3 171.8750 MHz)
Maxon ALERT2 TX radio (Frequency A2F1: 169.5125 MHz)
Transmit antenna, VHF-DIR 10 dB (Frequency A2F1: 169.5125 MHz)
Transmit antenna cable, SAM-160 to 5050LA, 20 feet
Transmit antenna cable additional length, per foot, 25 feet total
Transmit antenna lightning protection
Transmit antenna pigtail cable, 5050LA to 5052RP, 3 feet
Receiver antenna lightning protection
Receiver antenna pigtail cable, 5050LA to TWR2-150, 3 feet
Receiver distribution panel, (Frequency: A2F3 171.8750 MHz)
includes AC power supply, preamp, 2 port splitter
Receiver antenna pigtail cable, TWR2-150 to TWX-150, 1 foot
Receiver crystal filter for ALERT2 radio (Frequency: A2F3 171.8750 MHz)
Receiver crystal filter for ALERT1 radio (Frequency: A1F1 171.8250 MHz)
Receiver antenna pigtail cable, TWR2-150 to 5052RP, 3 feet
12 Vdc Power Supply with 3-pin MS connector
Recommend battery backup for AC power supply
Customer to supply Receive Antenna, Antenna Cable**

5052RP-K3-H/TU
RTR-MX
SAM-160
CRG8-NM/NM
CRG8-A
5050LA
CRG58-NM/BNC3
5050LA
CRG58-NM/NM3
TWR2-150
CRG58-NM/NM1
TWX-150
TWX-150
CRG58-NM/BNC3
5030-PS



Model #	Description
5052RP-3-H/TU	<p>Mt. Potosi, Virgin Peak, Spare ALERT1/ALERT2 Repeater In a Canister Receives ALERT1/ALERT2, Repeats ALERT2 3 radios, 2 Antennas, 1 Preamp, 1 Splitter, 2 Crystal Filter, Solar powered Alert2 HDR Repeater in Round canister with 3 Antenna Connectors, No inputs Use customer 50386 PCB/ with 50386 PCOS, ALERT1 modem PCB, Ritron ALERT1 radio (Frequency: A1F1 171.8250 MHz) A2X HDR Repeater PCB with GPS antenna, bracket, cable and lightning protection, Ritron ALERT2 RX radio included in above unit (Frequency: A2F3 171.8750 MHz) Maxon ALERT2 TX radio (Frequency A2F1: 169.5125 MHz) Transmit antenna, VHF-DIR 10 dB (Frequency A2F1: 169.5125 MHz) Transmit antenna strap kit for SAM-160, includes HEX bushing, strain, relief Transmit antenna cable, SAM-160 to 5050LA, 20 feet Transmit antenna cable additional length, per foot, 100 feet total (Mt. Potosi, spare) Transmit antenna cable additional length, per foot, 25 feet total (Virgin Peak) Transmit antenna lightning protection Transmit antenna pigtail cable, 5050LA to 5052RP, 3 feet Receiver antenna pigtail cable, 5050LA to TGA150-12, 3 feet 12Vdc Antenna Preamp, with 12Vdc power cable to 5052RP-3 Receiver antenna pigtail cable, TGA150-12 to TELPS-1502, 1 foot Receiver Antenna Splitter, 2 ports Receiver antenna pigtail cable, TELPS-1502 to TWX-150, 1 foot Receiver crystal filter for ALERT2 radio (Frequency: A2F3 171.8750 MHz) Receiver crystal filter for ALERT1 radio (Frequency: A1F1 171.8250 MHz) Receiver antenna pigtail cable, TWX-150 to 5052RP, 3 feet Customer to supply Receive Antenna, Antenna Cable, Lightning protection, solar panel, and battery Repeater must have a 50 Watt Solar Panel or larger Recommend 100 Amp Hr battery</p>
5052RP-3-54-H/TU	<p>Wildcat Wash, Spare ALERT1/ALERT2 Repeater In a Canister with Precipitation Input Receives ALERT1/ALERT2, Repeats ALERT2 3 radios, 2 Antennas, 1 Preamp, 1 Splitter, 2 Crystal Filter, Solar powered Alert2 HDR Repeater in Round canister with 3 Antenna Connectors, 1 Precipitation Input, 1 SDI-12 Input Use customer 50386 PCB/ with 50386 PCOS, ALERT1 modem PCB, Ritron ALERT1 radio (Frequency: A1F1 171.8250 MHz) A2X HDR Repeater PCB with GPS antenna, bracket, cable and lightning protection, Ritron ALERT2 RX radio included in above unit (Frequency: A2F3 171.8750 MHz) Ritron ALERT1 RX radio (Frequency: 171.825) Maxon ALERT2 TX radio (Frequency A2F1: 169.5125 MHz) Transmit antenna, VHF-DIR 10 dB (Frequency A2F1: 169.5125 MHz) Transmit antenna strap kit for SAM-160, includes HEX bushing, strain, relief Transmit antenna cable, SAM-160 to 5050LA, 20 feet Transmit antenna cable additional length, per foot, 25 feet total Transmit antenna lightning protection Transmit antenna pigtail cable, 5050LA to 5052RP, 3 feet Receiver antenna pigtail cable, 5050LA to TGA150-12, 3 feet Receiver antenna preamp, with 12Vdc power cable to 5052RP-3 Receiver antenna pigtail cable, TGA150-12 to TELPS-1502, 1 foot Receiver antenna Splitter, 2 ports Receiver antenna pigtail cable, TELPS-1502 to TWX-150, 1 foot Receiver crystal filter for ALERT2 radio (Frequency: A2F3 171.8750 MHz) Receiver crystal filter for ALERT1 radio (Frequency: A1F1 171.8250 MHz) Receiver antenna pigtail cable, TWX-150 to 5052RP, 3 feet Customer to supply Receive Antenna, Antenna Cable, Lightning protection, solar panel, and battery Repeater must have a 50 Watt Solar Panel or larger Recommend 100 AmpHr battery</p>



<u>Model #</u>	<u>Description</u>
Phase 3 ALERT2 upgrade kits for 5096 and 50386 transmitters Clark County Regional Flood Control District only	
5096/A2-H-UP	Upgrade existing 5096 Transmitter to ALERT2 Upgrade to existing 5096 Data Transmitter to ALERT2 ALERT2 HDR encoder PCB with GPS antenna, bracket, cable and lightning protection, ALERT2 9601-01 Version 5.8 EPROM Use existing Maxon Radio and Battery All sites must have a 22-amp hour battery and 5 watt solar panel Customer will do the installation of kits
5096A2-ADD	Labor to add Alert2 to existing 5096
50386A2-H-UP	Upgrade existing 50386 Transmitter to ALERT2 Upgrade existing 50386 DCU to ALERT2 ALERT2 HDR encoder PCB with GPS antenna, bracket, cable and lightning protection, Use existing Maxon Radio and Battery All sites must have a 22-amp hour battery and 10 watt solar panel Customer will do the installation of kits
50386A2-ADD	Labor to add Alert2 to existing 50386
5033-0.3B	5 watt, 300mA Solar Panel, regulator and mounting bracket
5033-3.0B	Wildcat Wash Repeater Solar Panel 50 watt, 3.0A Solar Panel, regulator and mounting bracket
5073TBX	ScadaLynx Toolbox Programming software ScadaLynx Toolbox Programming software update for ALERT2
SD-125EPK	Radio programming kits Maxon SD-125EV Transmitter Radio Programming Kit
DTXL-PCPK	Ritron DTX-145 Receiver Radio Programming Kit

Summary of Clark County Regional Flood Control District ALERT2 Upgrade Phases 1, 2, 3.

Phase 1 Base station ALERT2 receiver equipment for Clark County Regional Flood Control District and National Weather Service Las Vegas

Phase 1 Clark County Regional Flood Control District
Phase 1 National Weather Service Las Vegas

Phase 2 Repeater upgrades to ALERT2 Clark County Regional Flood Control District only

Phase 2 Clark County Regional Flood Control District

Phase 3 ALERT2 upgrade kits for 5096 and 50386 transmitters Clark County Regional Flood Control District only

Phase 3 Clark County Regional Flood Control District

Phase 1, 2, 3 Clark County Regional Flood Control District and National Weather Service Las Vegas

Terms Net 30 days
F.O.B. point West Sacramento, CA
Delivery 120-140 days after receipt of order. Crystal filters take 120 days to grow to frequency
Prices for this contract are valid for one year after receipt of order.

EXHIBIT C

TENTATIVE PROJECT TIME SCHEDULE*

Task 1 – Base Stations	April 1-April 7, 2019
Task 2 – Angel Peak, Christmas Tree and Boulder City Repeaters	April 7-April 14, 2019
Task 3 – Mt. Potosi and Virgin Peak Repeaters	April 14-April 21, 2019
Task 4 – Wildcat Wash Repeater	April 21-April 28, 2019
Task 5 – ALERT2 TDMA Planning	November 15, 2018-April 1, 2019
Task 6 – NWS NovaStar5 Update to 64-bit	April 29-May 5, 2019
Task 7 – Upgrade Power System at Three Repeater Sites	April 7-April 28, 2019

*This project schedule is an estimate only. Actual start and finish dates will depend on the availability of equipment to be procured under a separate agreement.

EXHIBIT D
COST BREAKDOWN

BASIC SERVICES

Task 1 – Base Stations	\$20,400
Task 2 – Angel Peak, Christmas Tree and Boulder City Repeaters	\$ 6,600
Task 3 – Mt. Potosi and Virgin Peak Repeaters	\$ 4,200
Task 4 – Wildcat Wash Repeater	\$ 3,600
Task 5 – ALERT2 TDMA Planning	\$ 6,600
Task 6 – NWS NovaStar5 Update to 64-bit	\$ 9,125
Task 7 – Upgrade Power System at Three Repeater Sites	\$ 6,600
Mobilization and Mileage	\$12,000
Lodging and food	\$ 4,160
SUBTOTAL – BASIC SERVICES	\$73,285
TOTAL SERVICES	<u>\$73,285</u>

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

**MASTER PLAN UPDATE FOR THE OUTLYING AREAS
CONSULTANT CONTRACT**

RECOMMENDATION SUMMARY

STAFF: Approve.

TECHNICAL ADVISORY: Approve.

CITIZENS ADVISORY: Approve.

**RFCD AGENDA
ITEM #11
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM

SUBJECT:
MASTER PLAN UPDATE FOR THE OUTLYING AREAS OF CLARK COUNTY
PETITIONER:
STEVEN C. PARRISH, P.E., GENERAL MANAGER/CHIEF ENGINEER
RECOMMENDATION OF PETITIONER:
APPROVE AND AUTHORIZE THE CHAIRMAN TO SIGN THE CONSULTANT CONTRACT TO PREPARE A MASTER PLAN UPDATE FOR THE OUTLYING AREAS OF CLARK COUNTY, INCLUDING BLUE DIAMOND, COYOTE SPRINGS, GOODSPRINGS, INDIAN SPRINGS, JEAN, LAUGHLIN, MOUNT CHARLESTON, NELSON, PRIMM, AND SEARCHLIGHT. (FOR POSSIBLE ACTION)

FISCAL IMPACT: \$350,000

BACKGROUND: The District is required by statute (NRS 543.596) to update the Master Plan at least once every five years. The Master Plan for Outlying Areas of Clark County was last updated and adopted by the Board on April 10, 2014. At the May 24, 2018 meeting, the Board authorized the General Manager to solicit proposals, select a consultant, and negotiate a professional services contract to prepare a Master Plan Update for the Outlying Areas of Clark County.

Two (2) proposals were received prior to the deadline on June 14, 2018. A review committee was formed consisting of staff from the Regional Flood Control District and Clark County Public Works. Based on the committee rankings of the written proposals, staff has selected Louis Berger U.S., Inc., and has completed contract negotiations. Funding is available in the FY 2018-2019 budget approved by the Board on April 12, 2018. The contract has been reviewed by the District Attorney and is included in the backup.

Respectfully submitted,



Steven C. Parrish, P.E.
General Manager/Chief Engineer

TAC AGENDA ITEM #09 Date: 10/25/18	RFCD AGENDA ITEM # 11 Date: 11/08/18
CAC AGENDA ITEM #09 Date: 10/29/18	

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:

Date: 10/15/18

MASTER PLAN UPDATE FOR THE OUTLYING AREAS OF CLARK COUNTY

The District is required by statute (NRS 543.596) to update the Master Plan at least once every five years. The Master Plan for Outlying Areas of Clark County was last updated and adopted by the Board on April 10, 2014. At the May 24, 2018 meeting, the Board authorized the General Manager to solicit proposals, select a consultant, and negotiate a professional services contract to prepare a Master Plan Update for the Outlying Areas of Clark County.

Two (2) proposals were received prior to the deadline on June 14, 2018. A review committee was formed consisting of staff from the Regional Flood Control District and Clark County Public Works. Based on the committee rankings of the written proposals, staff has selected Louis Berger U.S., Inc., and has completed contract negotiations. Funding is available in the FY 2018-2019 budget approved by the Board on April 12, 2018. The contract has been reviewed by the District Attorney and is included in the backup.

Staff Recommendation:

Approve.

Discussion by Technical Advisory Committee:

AGENDA
#09 Date: 10/25/18

Recommendation:

Approve.

Discussion by Citizens Advisory Committee:

AGENDA
#09 Date: 10/29/18

Recommendation:

Approve.

AGREEMENT FOR PROFESSIONAL SERVICES
CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
AND
LOUIS BERGER U.S., INC.
MASTER PLAN UPDATE FOR THE OUTLYING AREAS OF
CLARK COUNTY

THIS AGREEMENT is made and entered into this _____th day of _____, 20____, by and between the CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (hereinafter referred to as "DISTRICT") and LOUIS BERGER U.S., INC. (hereinafter referred to as "CONSULTANT"), for a Master Plan Update for the Outlying Areas of Clark County (hereinafter referred to as the "PROJECT").

WITNESSETH

WHEREAS, the DISTRICT desires to complete a Master Plan Update for the Outlying Areas of Clark County.

WHEREAS, the CONSULTANT is experienced and is knowledgeable in the completion of such works; and

WHEREAS, the CONSULTANT represents that it is properly registered and qualified in accordance with the Nevada Revised Statutes and has the personnel and facilities necessary to accomplish the PROJECT within the required time; and

WHEREAS, the parties desire to set forth the responsibilities, terms, and conditions of completing the PROJECT.

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

Section I

RESPONSIBILITY OF CONSULTANT

- A. The CONSULTANT shall be responsible for the professional quality, technical accuracy, timely completion, and coordination of all services furnished by the CONSULTANT, its subcontractors and subconsultants and their principals, officers and employees, and agents under this AGREEMENT. In performing the specified services, the CONSULTANT shall follow practices consistent with generally accepted current professional and technical engineering standards.
- B. It shall be the duty of CONSULTANT to assure that all work products are technically sound and in conformance with all pertinent and current federal, State, and local statutes, codes ordinances, resolutions, and other. If, during the term of this AGREEMENT, there are any changes or new laws, ordinances, statutes, rules or regulations not known or foreseeable at the time of signing this AGREEMENT which become effective and which affect the cost or time of performance of the AGREEMENT, the CONSULTANT shall immediately notify DISTRICT in writing and submit detailed documentation of such effect in terms of both time and cost of performing the AGREEMENT. Upon concurrence by DISTRICT as to the effect of such changes, adjustment in time of performance and/or compensation for an increase or decrease in labor, materials, and equipment directly required to be in compliance will be made in writing. Except for an extension of time, no payment or compensation of any kind shall be made to CONSULTANT for damages caused by such changes or new laws, ordinances, statutes, rules or regulations, including, but not limited to, those which may arise due to delay, disruption, acceleration, or inefficiency. If any discrepancy or inconsistency should be discovered between this AGREEMENT and any law, ordinance, regulation, order, or decree, CONSULTANT shall immediately report the same in writing to the DISTRICT, who will issue such instruction as may be necessary. The CONSULTANT shall, without additional compensation, correct or revise any errors or deficiencies in its recommended plans, policies, designs, drawings, and other sections of the PROJECT. It is also

understood and agreed by both parties that if any variation in measurements, calculations, or observations of a quantity due to mistakes, hereinafter referred to as “erroneous work” is found, the CONSULTANT will expeditiously perform the necessary work, at no expense to the DISTRICT, to correct the erroneous work. The reviewing process by the DISTRICT during the progress of the PROJECT will not relieve the CONSULTANT’s obligation for erroneous work in the preparation of the different sections of the PROJECT. Any revisions or updates of the PROJECT after submittal would be considered outside the scope of services for this AGREEMENT.

- C. The CONSULTANT will be responsible for holding monthly progress meetings with the DISTRICT. Minutes of these meetings and a summary of the PROJECT status will be submitted by the CONSULTANT to the DISTRICT monthly.
- D. It is agreed that any and all documents prepared and submitted by the CONSULTANT to the DISTRICT, and all information required of the CONSULTANT by the AGREEMENT, become the property of the DISTRICT. The CONSULTANT may retain copies and reproducible copies of all documents produced as a result of the PROJECT. In the event of the termination of the AGREEMENT, all documents produced shall be and become the property of the DISTRICT. The CONSULTANT agrees to surrender all such documents to the DISTRICT within ten (10) business days.
- E. The CONSULTANT agrees that its officers and employees will cooperate with the DISTRICT in the performance of services under this AGREEMENT and will be available for consultation with the DISTRICT at such reasonable times and with advance notice so as to not conflict with their other responsibilities.
- F. The rights and remedies of the DISTRICT provided for under this section are in addition to any other rights and remedies provided by law or under other sections of the AGREEMENT.

Section II

DISTRICT'S RESPONSIBILITY

- A. The DISTRICT agrees that its officers and employees will cooperate with CONSULTANT in performance of services under this AGREEMENT and will be available for consultation with CONSULTANT at such reasonable times with advance notice as to not conflict with their other responsibilities.
- B. The services performed by CONSULTANT under this AGREEMENT shall be subject to review and approval by the DISTRICT's General Manager. The DISTRICT's General Manager may delegate any or all of the General Manager's responsibilities under this AGREEMENT to appropriate staff members, and shall so inform CONSULTANT by written notice before the effective date of each such delegation.
- C. The services to be performed by the CONSULTANT under this AGREEMENT shall be subject to periodic review by the DISTRICT's General Manager. The review comments of the DISTRICT's General Manager shall be reported in writing to the CONSULTANT by the DISTRICT's General Manager or his designee. To prevent an unreasonable delay in the CONSULTANT's work, the DISTRICT's General Manager will endeavor to examine all documents and will make authorizations in writing to the CONSULTANT to proceed with work within 10 working days of receipt of such documents. It is understood that the DISTRICT's representative review comments do not relieve the CONSULTANT from the responsibility for professional and technical accuracy of all work delivered under this AGREEMENT.
- D. DISTRICT shall, without charge, furnish to or make available for examination or use by the CONSULTANT as it may request, any relevant data which the DISTRICT has available, including as examples only and not as a limitation:
1. Copies of reports, maps, plans, surveys, records, and other documents pertinent to flooding, flood control facilities, public properties, property developments, and other physical features related to the PROJECT.
 2. Copies of previously prepared reports, publications, design hydrologic and hydraulic data, flooding information, flooding data, rainfall/runoff data, representative local drainage requirements (i.e., subdivision, planning and zoning

regulations, ordinances, codes criteria, and special agreements or procedures), analyses, computation manuals, computer programs, other documents and information related to the PROJECT, and services specified by this AGREEMENT. CONSULTANT shall return original data provided by the DISTRICT at the DISTRICT's request within ten (10) calendar days.

- E. Upon written request from the CONSULTANT, the DISTRICT shall reasonably assist CONSULTANT in obtaining data and documents from public officers or agencies and from private citizens and business firms whenever the DISTRICT determines that such material is necessary for the completion of the services specified by the AGREEMENT. DISTRICT shall provide the CONSULTANT with a list of names of individuals, agencies, or any other parties that should receive written communication related to the PROJECT from the CONSULTANT.
- F. CONSULTANT will not be responsible for accuracy of information or data supplied by the DISTRICT or other sources, but will use such data to the extent such information or data would be relied upon by a reasonable prudent professional person in the engineering field.

Section III

CONSULTANT SERVICES

- A. The CONSULTANT shall perform Task 1 through Task 7 including services discussed in the "Basic Services" as specified in Exhibit A (the Scope of Services), which is attached hereto, and by this reference made a part of this AGREEMENT. In addition, the CONSULTANT will perform Task 8, "Supplemental Services" described in Exhibit A if, as, and when requested in writing by the General Manager. Exhibit B, the Project Study Area, and Exhibit C, the Project Time Schedule, are attached hereto and by this reference are also made a part of this AGREEMENT.
- B. The DISTRICT may at any time, by written order, make changes within the general scope of this AGREEMENT and in the services or work to be performed by the CONSULTANT. If such changes cause an increase or decrease in the CONSULTANT's cost or time required for performance of any services under this

AGREEMENT, an equitable adjustment shall be made and this AGREEMENT shall be modified in writing accordingly. Any claim of the CONSULTANT for adjustment under this clause must be asserted in writing within 30 days from the date of receipt by the CONSULTANT of notification of changes unless the DISTRICT grants a further period of time before the date of final payment under this AGREEMENT.

- C. No services for which any additional compensation will be charged by the CONSULTANT shall be furnished without the written authorization of the DISTRICT.

Section IV

COMPENSATION AND TERMS OF PAYMENT

- A. Once each month, the DISTRICT shall pay the CONSULTANT for services performed under Section III – Consultant Services. Invoices are prepared and submitted on a monthly basis and are due upon receipt. Payment is past due thirty (30) days from the invoice date. In the event the DISTRICT fails to make any payments, the CONSULTANT may cease work immediately until payment for the invoice and service charge is made. An additional charge at the rate of 1 ½ percent per month will be charged against invoices that are past due.
- B. Compensation and Method of Payment for Engineering Services are:
1. The DISTRICT shall pay the CONSULTANT on a time and materials basis under the CONSULTANT'S Fee Schedule, which is attached hereto as Exhibit D and by this reference made a part of this AGREEMENT.
 2. The maximum cost to the DISTRICT for Basic Services Task 1 through Task 7 including services discussed in Project Description accomplished under this AGREEMENT shall not exceed Two Hundred Eighty Thousand Dollars and zero cents (\$280,000.00) unless the DISTRICT receives a written request, with justification, and the DISTRICT approves a change in the SCOPE OF SERVICES and an increase in compensation. If approved, a supplement to this AGREEMENT must be executed. The maximum cost is based on a detailed breakdown of the estimated cost by tasks, and direct costs is shown on Exhibit E – Estimated Cost By Tasks, which is attached hereto, and by this reference made a part of this AGREEMENT. The estimated cost figures, per task, presented in

Exhibit E may, with the written approval from the DISTRICT, be adjusted from task to task so long as the total amount does not exceed Two Hundred Eighty Thousand Dollars and zero cents (\$280,000.00). Payments will be made to the CONSULTANT on a monthly basis upon receipt of a progress report and itemized invoices for work accomplished.

3. Supplemental services will be performed only upon written authorization by the General Manager and at the discretion of the General Manager. Payment for Supplemental Services will be made according to the terms described in this section for basic professional services. The maximum cost to the DISTRICT for supplemental services accomplished under this AGREEMENT shall not exceed Seventy Thousand Dollars and zero cents (\$70,000.00). Payments will be made to the CONSULTANT on a monthly basis upon receipt of a progress report and itemized invoices for work accomplished.
4. The total amount of this AGREEMENT shall not exceed Three Hundred Fifty Thousand Dollars and zero cents (\$350,000.00), unless approved by the DISTRICT in writing and a supplement to this AGREEMENT is executed by the parties.

Section V

TIME AND PERFORMANCE

- A. The Project Time Schedule for work under this AGREEMENT is attached as Exhibit C and by this reference made a part of this AGREEMENT. The CONSULTANT will perform the work in accordance with said Project Time Schedule, and will provide the DISTRICT's representative a progress report monthly in conjunction with the monthly invoice.

Work shall begin immediately upon receipt by the CONSULTANT of the Notice to Proceed by General Manager or his designee. All work necessary to prepare the PROJECT deliverables for submittal to the DISTRICT for review and publication shall be completed 294 calendar days from Notice to Proceed. Supplemental services, if

requested by the General Manager, will be completed within the time frame established for such services.

- B. The DISTRICT and CONSULTANT recognize the scope of work as detailed in Exhibit A – Scope of Services and as outlined in Exhibit C – Project Time Schedule can be altered by unforeseen events that may occur. Therefore, a supplement to this AGREEMENT will be prepared, negotiated, and executed when the CONSULTANT establishes, and the DISTRICT agrees, that there has been, or is to be a significant change, including but not limited to:
1. Scope, complexity, or character of the services to be performed such as additional meetings and coordination over those identified in Exhibit A, analysis of additional alternatives, or preparation of additional reports.
 2. Conditions under which the work is required to be performed, such as a change in standards or a change in available base data that would require additional work.
 3. Duration of work if the time period for completion of the work warrants such adjustment.
- C. An alteration required by the DISTRICT that results in changes in the scope of work will also be specified in a supplemental AGREEMENT that will set forth the nature and scope thereof and payment therefore.
- D. Neither party shall be considered in default in the performance of its obligations hereunder, or any of them, to the extent that performance of such obligations, or any of them is prevented or delayed by any cause, existing or future, which is beyond the reasonable control of such party. Delays arising from the actions or inactions of one or more of the CONSULTANT's principals, officers, employees, agents, subcontractors, subconsultants, vendors, or suppliers are expressly recognized to be within the CONSULTANT's control.
- E. This AGREEMENT shall begin on November 8, 2018 and terminate on August 29, 2019 unless it is extended before the termination date with the mutual written consent of both parties or earlier terminated pursuant to Section VI.

Section VI

MISCELLANEOUS PROVISIONS

- A. The CONSULTANT and its subconsultant(s) shall maintain all books, documents, papers, accounting reports, and other evidence pertaining to costs incurred and/or work performed and that such evidence shall be made available for inspection by the DISTRICT at all reasonable times during the AGREEMENT period for three (3) years from the date of final payment.
- B. The DISTRICT's General Manager has the right to terminate this AGREEMENT upon seven (7) days written notice to the CONSULTANT. This AGREEMENT may also be terminated by either party upon seven (7) calendar days written notice in the event of substantial failure to perform in accordance with the terms hereof by the one party through no fault of the other party. If said termination occurs prior to completion of the PROJECT, the CONSULTANT shall deliver to the DISTRICT all documents, calculations, and all other work performed whether complete or incomplete. Thereafter, the DISTRICT will reimburse the CONSULTANT for all services performed prior to such notice, provided the services performed are satisfactory to the DISTRICT. Termination shall be by written notice, which will be sent by certified mail or hand delivered. Such notice will be deemed effective after the third business day of the mailing post date, or hand delivered, in which case such notice will be deemed effective upon receipt of the written termination to the CONSULTANT or the DISTRICT.
- C. CONSULTANT agrees to indemnify and hold harmless the DISTRICT and all the officers and employees, of the DISTRICT, and each of them, from and against any liabilities, damages, losses, claims, actions or proceedings, including, without limitation, reasonable attorneys' fees and costs, to the extent such liabilities, damages, losses, claims, actions or proceedings are caused by the negligence, errors, omissions, recklessness or intentional misconduct of the CONSULTANT, CONSULTANT's employees and/or agents, in the performance of this AGREEMENT. If the CONSULTANT is adjudicated to be liable by a trier of fact, the trier of fact shall award reasonable attorney's fees and costs to be paid to the DISTRICT, as reimbursement for the attorney's fees and costs incurred by the DISTRICT in defending the action, by the

CONSULTANT in an amount which is proportionate to the liability of the CONSULTANT.

CONSULTANT further agrees to defend the DISTRICT and all the officers and employees of the DISTRICT, and each of them, from and against any and all liabilities, damages, losses, claims, actions or proceedings caused by the negligence, errors, omissions, recklessness or intentional misconduct of the CONSULTANT, and CONSULTANT's employees and/or agents, in the performance of this AGREEMENT when said liabilities, negligence, errors, omissions, recklessness or intentional misconduct are not based upon or arising out of the professional services performed under this AGREEMENT.

CONSULTANT will not be required to defend, indemnify or hold harmless the public body or the employees or officers of the DISTRICT from any liability, damage, loss, claim, action or proceeding caused by the negligence, errors, omissions, recklessness or intentional misconduct of the employees or officers of the DISTRICT.

- D. During the life of this AGREEMENT, the CONSULTANT shall not engage the services of any person or persons who are currently employed by the DISTRICT without the DISTRICT's prior approval.
- E. The CONSULTANT shall at all times maintain control over and have complete responsibility for all work performed under the AGREEMENT. Any attempted assignment of rights or delegation of duties under this AGREEMENT, without the written consent of the DISTRICT, shall be void.
- F. The CONSULTANT shall submit for review and documentation purposes copies of all subconsultant agreements.
- G. The CONSULTANT shall place his professional engineer stamp on the final Submittal substantiating that the work has been accomplished under the direct supervision of a professional engineer and in accordance with acceptable professional standards.
- H. The CONSULTANT, at his own expense, shall obtain and maintain, for the duration of the AGREEMENT, insurance against claims for injuries to persons or damages to property or other losses which may arise from or in connection with CONSULTANT's

sole negligence or fault in the performance of work hereunder of the CONSULTANT, his agents, representatives, employees, or subcontractors of any tier.

The CONSULTANT will provide the DISTRICT with certificates of insurance for coverage as listed below and endorsements, establishing coverage required by the AGREEMENT within ten (10) calendar days after approval of this AGREEMENT by the DISTRICT's Board. The certificate of endorsements for each insurance policy are to be signed by a person authorized by the insurer and licensed by the State of Nevada.

The CONSULTANT will:

1. Maintain commercial general liability coverage at limits of no less than \$1,000,000 combined single limit per occurrence and \$1,000,000 annual aggregate for bodily injury (including death), personal injury and property damages. The coverage shall be on an "occurrence" basis only and not on a "claims made" basis; and the coverage must be provided on ISO commercial liability or on ISO broad form comprehensive general liability forms with no exceptions to the coverage for bodily injury, personal injury, broad form property damages, premises operations, severability of interest, products and completed operations, contractual and independent contractors. The DISTRICT, its officers, and employees must be expressly covered as additional insureds.
2. Maintain automobile coverage at limits of no less than \$1,000,000 combined single limit "per accident" for bodily injury and property damage for all owned automobiles, non-owned automobiles, hired automobiles, or any automobile. The DISTRICT, its officers, and employees, and volunteers must be expressly covered as additional insureds.
3. Maintain professional liability insurance at limits of no less than \$1,000,000 per claim and \$1,000,000 annual aggregate to insure against claims for losses arising out of the services rendered by the CONSULTANT, its agents, representatives, or employees pursuant to the CONSULTANT's AGREEMENT with the DISTRICT. "Claims made" insurance coverage will continue for a period of three (3) years beyond the term of the AGREEMENT. Any retroactive date must

coincide with or predate the date of the AGREEMENT and may not be advanced without the DISTRICT's consent. The CONSULTANT's professional liability insurance must provide coverage for the CONSULTANT's subcontractor if the subcontractor does not maintain professional liability insurance in the same amounts and manner as required for the CONSULTANT.

All deductibles and self-insured retention shall be fully disclosed in the certificate of insurance. No deductible of self-insured retention may exceed \$250,000 for commercial general liability, \$250 for automobile, or \$250,000 for professional liability without the written approval of the DISTRICT. If aggregate limits are imposed on bodily injury and property damage, then the amount of such limits must not be less than twice the amount of the limits required herein. All aggregate must be fully disclosed and the amount entered on the required certificate of insurance. Any notice given to the CONSULTANT with respect to exhaustion of limits of insurance shall also be sent to the DISTRICT. The adequacy of the insurance supplied by the CONSULTANT, including the rating and financial health of each insurance company providing coverage, is subject to the approval of the DISTRICT.

4. Maintain Nevada Industrial Insurance and Occupational Disease Acts; such insurance will protect it and the DISTRICT from claims made by the CONSULTANT due to work-related injuries.
5. The CONSULTANT's insurance shall be primary in respect to the DISTRICT, its officers, employees, and volunteers.

The insurance requirements specified herein do not relieve the CONSULTANT of its responsibility or limit the amount of its liability to the DISTRICT or other persons, and the CONSULTANT is encouraged to purchase such additional insurance as it deems necessary.

6. The insurance certificate supplied by the CONSULTANT must provide for a 30-day notice to the DISTRICT before the implementation of a proposal to cancel the required insurance coverage. This notice requirement does not waive the

insurance requirements contained herein. In addition, CONSULTANT shall notify DISTRICT within thirty (30) days of any reduction in coverage or limits.

7. If the CONSULTANT fails to maintain any of the insurance coverage required herein, then the DISTRICT will have the option to either terminate the AGREEMENT; declare the CONSULTANT in breach; purchase replacement insurance; or pay the premiums that are due on existing policies in order that the required coverage may be maintained. The CONSULTANT is responsible for any expenses paid by the DISTRICT to maintain such insurance, and the DISTRICT may collect the same from the CONSULTANT or deduct the amount paid from any sums due the CONSULTANT under this AGREEMENT.
8. The CONSULTANT shall obtain the required insurance prior to commencement of services being performed.

I. Project Staffing

CONSULTANT shall provide the DISTRICT with a list of CONSULTANT's employees who will be performing work on the PROJECT. This list shall indicate the employee's name, classification, and hourly billing rate. This list will be used by the DISTRICT in reviewing and evaluating changes as a result of CONSULTANT's fiscal year increases (decreases).

J. Governing Law

Nevada law shall govern the interpretation of this AGREEMENT.

K. Notice

Any notice required to be given hereunder shall be deemed to have been given when received by the party to whom it is directed by personal service, hand delivery, or U.S. mail at the following addresses:

To DISTRICT: Clark County Regional Flood Control District
600 Grand Central Parkway, Suite 300
Las Vegas, Nevada 89106
Attention: Andrew R. Trelease, P.E., CFM
Assistant General Manager

To CONSULTANT: Louis Berger U.S., Inc.
444 E. Warm Springs Road, Suite 118, Las Vegas, NV 89119
Attention: Syndi Dudley, PhD., PE
Vice President

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

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

By: _____ Date: _____
LAWRENCE L. BROWN, III Chairman

LOUIS BERGER U.S., INC.

By: _____ Date: _____
Syndi Dudley, PhD., PE
Vice President

ATTEST:

By: _____ Date: _____
Sherry Allen
Secretary to the Board

APPROVED AS TO LEGALITY ONLY:

By: _____ Date: _____
Christopher Figgins
Chief Deputy District Attorney

**EXHIBIT A
SCOPE OF SERVICES**

**MASTER PLAN UPDATE FOR THE
OUTLYING AREAS OF CLARK COUNTY**

PROJECT OVERVIEW

The DISTRICT is responsible for developing comprehensive flood control master plans for the planning areas within Clark County. The DISTRICT is also required by the statute (NRS 543.596) to update Master Plans at least once every five years. The Master Plan Update for the Outlying Areas of Clark County was last updated and adopted by the Board on April 10, 2014.

The Clark County Outlying Study Areas include Blue Diamond, Coyote Springs, Goodsprings, Indian Springs, Jean, Laughlin, Mount Charleston, Nelson, Primm and Searchlight. The project will include updating the existing structures inventory, reviewing the validity of the current Master Plan and, if necessary, developing alternatives and final recommendations through coordination with the District, Clark County Department of Public Works (CCPW) and the appropriate Town Boards. The 2014 Outlying Areas MPU will be the basis for the update. It is anticipated that the final MPU document will be completed and presented to the Board for adoption in November 2019.

Basic services to be provided by the CONSULTANT under this Scope of Services are divided into TASKS 1 through 7, which are discussed in detail below. Additional Supplemental Services that maybe provided by the CONSULTANT if requested and authorized by the DISTRICT in writing are described in TASK 8 at the end of this document.

TASK 1 – PROJECT MANAGEMENT

1.1 General Project Management

Project management will include internal meetings, coordination, project budgeting, progress reports, schedule development/updates, and invoicing. The CONSULTANT will develop and maintain a distribution list with contact information and coordinate and communicate on a regular basis with the DISTRICT, CCPW, and other stakeholders to facilitate the efficient and timely completion of the PROJECT.

1.2 Kickoff Meeting

CONSULTANT shall prepare an agenda and schedule and attend a Kickoff meeting with the DISTRICT and other agencies as required within ten calendar days of the issuance of Notice to Proceed. This meeting will be held to review the scope of work, discuss data and information required, review the project schedule (prepared by the CONSULTANT using Microsoft Project or similar software), introduce key personnel, establish lines of communication and clarify the DISTRICT's and other government agency requirements for the PROJECT. Within five business days following the Kickoff meeting, the CONSULTANT will prepare and distribute draft meetings via email to the DISTRICT Project Manager and meeting attendees. The CONSULTANT shall finalize and distribute final meeting minutes after the draft meeting minutes are approved by the DISTRICT's representative.

Deliverable: Kickoff meeting and meeting minutes

1.3 Monthly Progress Meetings

The CONSULTANT will prepare for and conduct up to ten (10) progress meetings with the DISTRICT in support of the PROJECT. During these meetings, the ENGINEER will report on PROJECT progress, schedule, analysis, results, and discuss any master plan issues or required decisions/direction.

The CONSULTANT will prepare meeting agendas prior to the meetings and meeting minutes within five business days following the meeting to document decisions made, data needs, action items and the expected timeframe for completion. The CONSULTANT will distribute draft meeting minutes via email to the DISTRICT Project Manager and meeting attendees. The CONSULTANT will finalize and distribute final meeting minutes after the draft meeting minutes are approved by the DISTRICT's representative.

Deliverable: Ten (10) progress meeting and meeting minutes

1.4 Project Presentations

CONSULTANT shall prepare for and present up to three (3) project presentations to the stakeholders, including meeting attendance and preparation of graphics and back up information. The following presentations are anticipated:

- Regional Flood Control District Citizens Advisory Committee
- Regional Flood Control District Technical Advisory Committee
- Regional Flood Control District Board – Final MPU Adoption

TASK 2 – RECONNAISSANCE AND EXISTING FACILITY INVENTORY

2.1 Data Collection and Review

The CONSULTANT will collect and review applicable, available, current information which pertains to the master plan and study area. Sources of information may include but are not limited to:

- 2009, 2014 Outlying Areas Master Plan Update, model files
- NDOT Studies
- U.S. Army Corps of Engineer studies
- Flood Insurance Studies, LOMRs, CLOMRs
- Preliminary engineering reports
- CCRFCD Hydrologic Criteria and Drainage Design Manual
- Technical Drainage Studies, construction plans, and design reports of regional significance
- Regional and local drainage master plans
- Rainfall/Stream Gage Data (CCRFCD, USGS, etc.)
- Development, road, and utility master plans
- Existing and proposed land use

- NRCS Soil Surveys and Maps
- Watershed and topographic maps
- Land ownership and County GIS Data
- Flooding history and maintenance logs
- Trail Plans
- Relevant interlocal flood control agreements

2.2 Field Reconnaissance

The CONSULTANT will perform up to one (1) site visit to conduct field reconnaissance for the study area. CONSULTANT will take photographs of key flood control facilities, assess current watershed conditions, verify size and locations of flood control and drainage facilities, and understand flood hazard characteristics of the watershed. The observations from the site visit will be documented and include photographs. Pertinent data and photographs from the site visits will be incorporated into the final master plan document as appropriate.

2.3 Update the Inventory of Existing Facilities

Based on the information collected in Tasks 2.1 and 2.2 described above, CONSULTANT will review plans and recently constructed flood control and drainage facilities and verify the inventory of the existing facilities in the master plan. Sizes, lengths, extents, alignments, and capacities of each facility will be included in the updated inventory. This task also includes making updates to the DISTRICT's electronic GIS database of regional facilities.

TASK 3 – HYDROLOGIC ANALYSIS

3.1 Hydrologic Analysis Review

The hydrologic analysis will involve a thorough review of the latest version of the 2014 MPU HEC-HMS computer models for the Outlying Areas. The first step of the review will be to understand what has been done previously with regard to model parameterization and organization. The HEC-HMS model components, methods, and parameters will be reviewed, including land use, soils, rainfall, routing parameters, lag times, storm centering, and results.

3.2 Hydrology Analysis Update

Following the review, a meeting will be held with the DISTRICT and CCPW to summarize the review and discuss key decisions related to the hydrologic model update. This will include a discussion of the assumption of ultimate condition (i.e. fully developed future land use) and how it should be applied in Clark County.

The selected models will be updated to account for changes that have occurred in each watershed due to construction of regional flood control facilities, master plan, amendments/changes, local drainage master plans, and land development. The methodology and criteria used to update the models will be determined based on the outcome of the hydrologic analysis review of the methodologies, in consideration of guidelines in the DISTRICT's Hydrologic Criteria and Drainage Design Manual, and through coordination with the DISTRICT and CCPW.

It is assumed that the overall hydrologic approach will be similar to what was used in the 2014 MPU and that no significant changes will be made to watershed boundaries, subbasin

sizes/delineations, or storm centering. However, all components of the models will be reviewed and updated as necessary to ensure they are current and reflect best available data and information, including the most current planned land use coverages and soil properties. The result will be updated models that are organized at a regional level with maps that identify watershed areas and are easy to interpret. It is anticipated that no subbasin boundary changes will be made for any of the outlying areas.

The scope of work for the hydrologic analysis does not include any of the following:

- Existing or interim condition hydrologic analysis (which would use different land use conditions other than the ultimate condition or which would assume regional facilities are not in place)
- Hydrologic model calibration analysis
- Other unforeseen or unexpected hydrologic analysis not typically part of the MPU

The CONSULTANT will use the updated models to determine the 100-year flow impacting all regional flood control facilities. The CONSULTANT will prepare progress maps and models of the 100-year hydrologic analysis during the course of the project for review by the DISTRICT and entities during progress meetings. The Coyote Springs model is currently in HEC-1 (it was added as an addendum to the 2009 MPU). The Coyote Springs HEC-1 model will not be converted to HEC-HMS.

Deliverable: HEC-HMS models for all outlying areas, except Coyote Springs which will be in HEC-1, to determine the 100-year flow impacting all regional flood control facilities. The CONSULTANT will prepare progress maps and models of the 100-year hydrologic analyses during the course of the project for review by the DISTRICT and entities.

TASK 4 – HYDRAULIC AND SEDIMENTATION ANALYSIS

4.1 Hydraulic Analysis

The CONSULTANT will review and evaluate the hydraulic capacity of key existing facilities using updated flow rates from the hydrologic analysis.

4.2 Sedimentation Analysis

The CONSULTANT will evaluate key flood control facilities for susceptibility to erosion and sedimentation using appropriate methods applied in previous MPUs, and in consultation with the DISTRICT and CCPW.

TASK 5 – PLAN FORMULATION AND EVALUATION

5.1 Facility Plan Update

Plan formulation and facility analysis will include review and modification of the existing and proposed regional flood control facility system due to updated analysis and/or changes that have occurred since the previous MPU. The facility plan will be reevaluated based on the revised flow rates developed with the updated hydrologic models, construction of new regional facilities, master plan amendments/changes, pre-design and design reports, environmental considerations, and proposed changes provided by the DISTRICT, CCPW, and the local entities.

The CONSULTANT will also evaluate and analyze the feasibility of the facility plan in an effort to develop the most efficient and cost-effective plan possible while providing the required level of flood protection and addressing any existing or potential/identifiable future deficiencies in the plan. It is anticipated that new facilities will not be added to the master plan due to lack of growth. The recommended facility plan will also be evaluated with respect to the following item:

- Identify and remove facilities no longer needed on the plan due to reduced flowrates or other factors

Modifications to the current flood control system will be proposed as required to ensure all areas are addressed and to provide proper detention and conveyance of the 100-year frequency flood event. The plan formulation and associated flood control facilities will be based on the hydrologic models and hydraulic analysis using the 2018 LVV MPU facility sizing tool, which is based on normal depth (Manning's Equation), or on relevant drainage studies/design reports as appropriate.

5.2 Environmental Considerations

The plan formulation task will also include a review and update of the environmental considerations that were included in the previous MPU. This task will involve a review of permits that would be required for a given flood control facility.

In addition, a summary of environmental sensitive areas and environmental resources within the study area will be researched for available/updated information and documented in the master plan document.

Deliverable: Updated facility sizing spreadsheets and normal depth calculation spreadsheets to be incorporated into final deliverables. Summary of environmental considerations and permits will also be incorporated into final deliverables.

5.3 Cost Estimates

Upon completion of the hydrologic models and draft facility plan, facility project cost estimates will be calculated by the CONSULTANT for all existing and proposed regional flood control facilities. The project cost estimates will be calculated using the cost estimation tool recently developed for the 2018 Las Vegas Valley MPU. Cost opinions will take into account design, construction, and right-of-way costs. The cost estimation tool and methods are underlying data will be reviewed and updated as necessary to reflect best available cost data for the study area. The draft project cost estimates will be summarized in tabular format and incorporated into draft master plan document for review by the DISTRICT and the local entities.

Deliverable: Estimated project costs for all existing and proposed facilities will be summarized in the final master plan document. Electronic versions of the cost tool and cost database will also be provided.

TASK 6 – PROCESS AND DELIVERABLES

6.1 Preparation of Draft MPU Report

The CONSULTANT will prepare a draft MPU report that compiles necessary supporting data, documentation, and analysis and that summarizes the methods and results of Tasks 2 through 5. The MPU Reports will include the following information:

- Executive summary
- Project background/flood history
- Watershed management
- Hydrologic modeling approach/parameterization
- Inventory of existing facilities
- Drainage characteristics of individual drainage areas
- Plan formulation, description of alternatives, schematic plans
- Recommended plan, environmental considerations, sedimentation analysis
- Cost estimate summaries and tables
- Detailed GIS maps (showing hydrology, soils, land use, facilities, etc.)
- Facility inventory tables (showing facility IDs, facility type, size, peak flow, etc.)
- Technical appendix

Deliverable: CONSULTANT will prepare five (5) copies of each draft MPU report and submit them to the DISTRICT and other entities for review and feedback. In addition to the hard copy report the Draft MPU Report will also be submitted to the DISTRICT electronically in PDF format. A hard copy of technical appendix will not be provided as part of the Draft MPU Report submittal but will be provided electronically.

6.2 Preparation of Final MPU Report

Reasonable comments of the Draft MPU Reports from the DISTRICT and local entities will be addressed and incorporated into the Final MPU Reports as directly by the DISTRICT.

Deliverable: CONSULTANT will prepare five (5) copies of each Final MPU Report and submit them to the DISTRICT and other entities. Each copy of the Final MPU Report will also include a Data CD with electronic data and supporting information, such as cost data, GIS, Data, hydrologic/hydraulic models, facility tables, etc. The Final MPU Report will also be submitted electronically in PDF format. The technical appendix will be provided in electronic format only.

TASK 7 – DIGITAL DATA

The CONSULTANT will provide all mapping information and final GIS data in electronic format in conformance with reasonable GIS specifications provided by the DISTRICT. CONSULTANT will also review the GIS database and attributes and provide recommendations to the DISTRICT regarding the format, attributes, and quality of the data. The GIS data will include but is not limited to the following:

- ArcMap (.mxd) files and layer files
- Topography data

- Hydrologic data (Subbasins, Soils, Land Use, Flow Arrows, Watersheds)
- Floodplain delineations
- Regional facilities (linear conveyance facilities and detention basins with relevant attributes populated)
- Environmentally sensitive areas

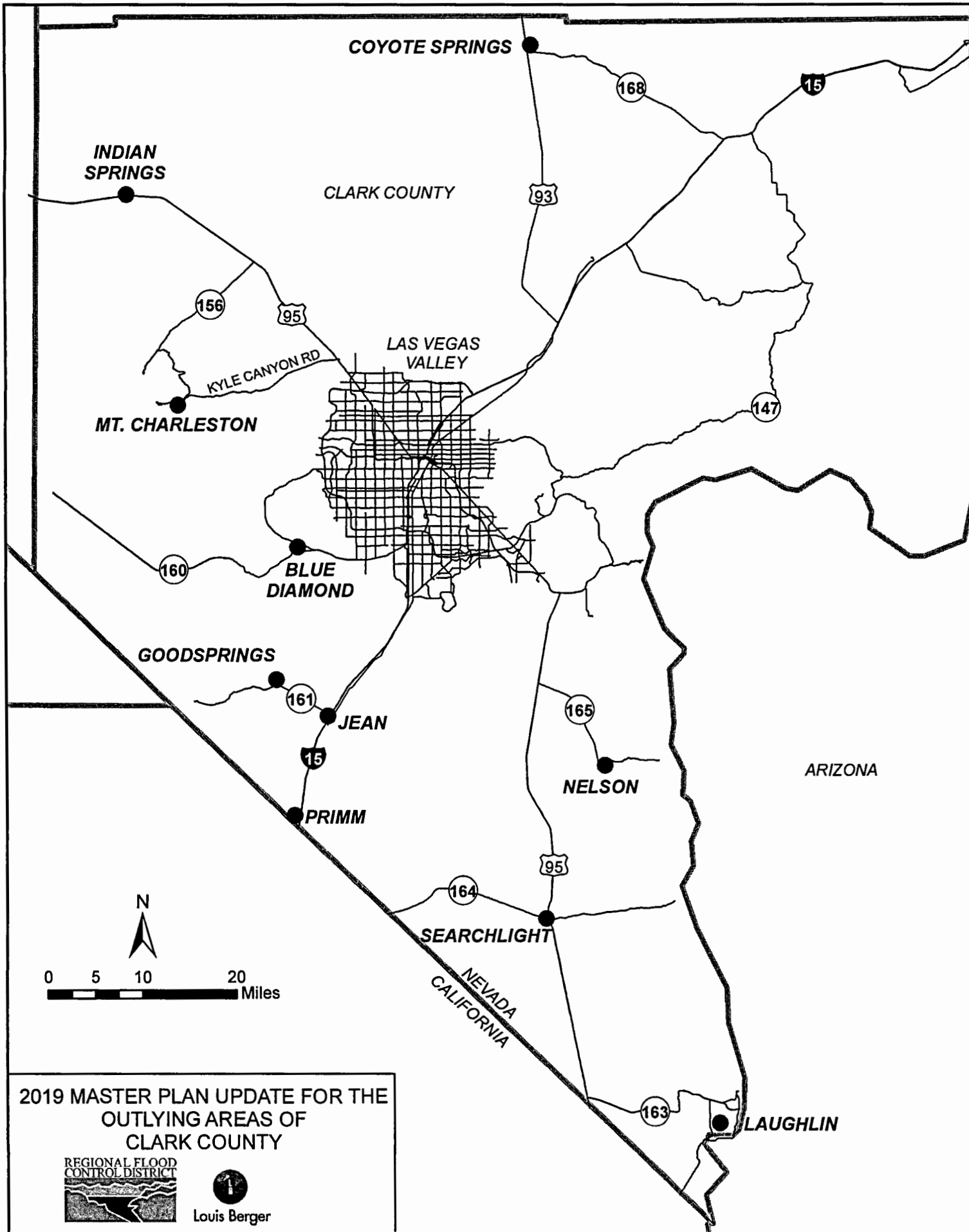
TASK 8 – SUPPLEMENTAL SERVICES

Supplemental Services will include additional analysis, facility planning, modeling or other master plan tasks as needed to complete an accurate and comprehensive master plan document.

Appropriate allocation of funds for work completed under the supplemental services portion of the scope of work will be negotiated prior to authorization of work. Prior written authorization from the DISTRICT is required for execution of supplemental services tasks:

- Additional data collection
- Additional site visits
- Additional hydrologic analysis
- Model calibration
- Development and delineation of approximate flooding limits of existing conveyance corridors
- Additional or detailed hydraulic modeling
- Aerial or manual topographic survey
- Additional facility analysis or alternatives analysis beyond what has been identified in the above scope
- Additional field reconnaissance
- Additional project meetings, presentations, and/or stakeholder coordination
- Additional final document development and reproduction
- Additional sedimentation and scour analysis
- Town Advisory Board Meetings
- Additional Citizen Advisory Council Meetings
- Any other task pertinent to the project as agreed upon by the CONSULTANT and DISTRICT

EXHIBIT B
PROJECT STUDY AREA



**EXHIBIT C
PROJECT TIME SCHEDULE**

PROJECT TASK	END DATE
Notice to Proceed	November 8, 2018
TASK 1 - Project Management	Duration of Contract
TASK 2 - Reconnaissance and Existing Facility Inventory	January 31, 2018
TASK 3 - Hydrologic Analysis	March 14, 2019
TASK 4 - Hydraulic and Sedimentation Analysis	May 2, 2019
TASK 5 - Plan Formulation and Evaluation	July 11, 2019
TASK 6.1 - Process and Deliverables: Draft MPU Report	July 11, 2019
TASK 6.2 - Process and Deliverables: Final MPU Report	August 29, 2019
TASK 7 - Digital Data	August 29, 2019

**EXHIBIT D
CONSULTANT'S FEE SCHEDULE**

<u>CLASSIFICATION</u>	<u>DIRECT SALARY (Not to Exceed) (Standard Rates)</u>
Principal	\$105.00
Project Manager	\$85.00
Engineer III	\$70.00
Engineer II	\$60.00
Engineer I	\$55.00
Engineering Analyst II/ GIS Specialist II	\$45.00
Engineering Analyst I/ GIS Specialist I	\$40.00
Hydrologist II	\$35.00
Hydrologist I	\$30.00
Scientist III	\$55.00
Scientist II	\$45.00

The above hourly rates shall be multiplied by 3.0 which includes Salary Cost, Overhead and a Fixed Fee. An allowance has been incorporated into the above ranges for any annual salary adjustments that may occur during the PROJECT. These hourly rates shall remain in effect throughout the duration of the PROJECT.

**EXHIBIT E
ESTIMATED COSTS BY TASK**

BASIC SERVICES

TASK 1 - Project Management	\$ 55,000
TASK 2 - Reconnaissance and Existing Facility Inventory	\$ 45,000
TASK 3 - Hydrologic Analysis	\$ 50,000
TASK 4 - Hydraulic and Sedimentation Analysis	\$ 15,000
TASK 5 - Plan Formulation and Evaluation	\$ 50,000
TASK 6 - Process and Deliverables	\$ 55,000
TASK 7 - Digital Data	\$ 10,000
SUBTOTAL - BASIC SERVICES	<u>\$ 280,000</u>
TASK 8 - Supplemental Services	\$ 70,000
TOTAL SERVICES	<u>\$ 350,000</u>

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

**DUCK CREEK, LAS VEGAS BOULEVARD
REALLOCATION OF FUNDING – CLA08R13**

RECOMMENDATION SUMMARY

STAFF: Approve.

TECHNICAL ADVISORY: Approve.

CITIZENS ADVISORY: Approve.

**RFCD AGENDA
ITEM #12a
DATE: 11/08/18**

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:
DUCK CREEK, LAS VEGAS BOULEVARD
PETITIONER:
DENIS CEDERBURG, DIRECTOR OF PUBLIC WORKS
RECOMMENDATION OF PETITIONER:
THAT THE REGIONAL FLOOD CONTROL DISTRICT APPROVE THE REQUEST TO REALLOCATE FUNDING WITHIN THE INTERLOCAL CONTRACT FOR DESIGN FOR DUCK CREEK, LAS VEGAS BOULEVARD - CLA08R13 (FOR POSSIBLE ACTION)

FISCAL IMPACT:

	<u>CURRENT</u>		<u>REVISED</u>	<u>FISCAL IMPACT</u>
Design	\$ 483,000.00	\$	463,000.00	\$ (20,000.00)
Right-of-Way	\$ 1,000.00	\$	22,000.00	\$ 21,000.00
Environmental Mitigation	\$ 1,000.00	\$	0.00	\$ (1,000.00)
Emergency Action Plan	\$ 0.00	\$	0.00	\$ 0.00
Total ILC Value	\$ 485,000.00	\$	485,000.00	\$ 0.00

BACKGROUND:

On September 12, 2013, the Regional Flood Control District entered into an interlocal contract with Clark County to provide funding for design engineering, right-of-way, and environmental mitigation for the subject project. Construction of this project is complete. Supplemental No. 1 dated June 14, 2018 extended the term of the contract for this project. Additional funds are now needed for in-house labor that was used to acquire Right-of-Way. This request will allow for the reallocation of funds in the interlocal contract.

Respectfully submitted,

TAC AGENDA ITEM # 11a Date: 10/25/2018	RFCD AGENDA ITEM #12a Date: 11/08/2018
CAC AGENDA ITEM # 11a Date: 10/29/2018	



 DENIS CEDERBURG
 Director of Public Works

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:

Date: 10/15/18

**DUCK CREEK, LAS VEGAS BOULEVARD
REALLOCATION OF FUNDING – CLA08R13**

Clark County has submitted a request to reallocate funding within the interlocal contract for design engineering, right-of-way and environmental mitigation dated September 12, 2013 and supplemented June 14, 2018 for the Duck Creek, Las Vegas Boulevard project.

The County now requests additional funds to pay for in-house labor costs used to acquire Right-of-Way. District funding will be as follows:

	Current Funding	Increase/Decrease	Proposed Funding
Design Engineering	\$483,000	(\$20,000)	\$463,000
Right-of-Way	\$ 1,000	\$ 21,000	\$ 22,000
Environmental Mitigation	\$ 1,000	(\$ 1,000)	\$ 0
Total ILC Value	\$485,000	\$ 0	\$485,000

Staff Recommendation:

Approve.

Discussion by Technical Advisory Committee:

AGENDA
#11a Date: 10/25/18

Recommendation:

Approve.

Discussion by Citizens Advisory Committee:

AGENDA
#11a Date: 10/29/18

Recommendation:

Approve.

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

LAS VEGAS WASH – SLOAN CHANNEL TO BONANZA ROAD AND FLAMINGO WASH
BELOW NELLIS BOULEVARD
REALLOCATION OF FUNDING – CLA15D12

RECOMMENDATION SUMMARY

STAFF: Approve.

TECHNICAL ADVISORY: Approve.

CITIZENS ADVISORY: Approve.

RFCD AGENDA
ITEM #12b
DATE: 11/08/18

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT: LAS VEGAS WASH – SLOAN CHANNEL TO BONANZA ROAD AND FLAMINGO WASH BELOW NELLIS BOULEVARD
PETITIONER: DENIS CEDERBURG, DIRECTOR OF PUBLIC WORKS
RECOMMENDATION OF PETITIONER: THAT THE REGIONAL FLOOD CONTROL DISTRICT APPROVE A REQUEST TO REALLOCATE FUNDING WITHIN THE INTERLOCAL CONTRACT FOR DESIGN FOR LAS VEGAS WASH - SLOAN CHANNEL TO BONANZA ROAD AND FLAMINGO WASH BELOW NELLIS BOULEVARD - CLA15D12 (FOR POSSIBLE ACTION)

FISCAL IMPACT:

	<u>CURRENT</u>	<u>REVISED</u>	<u>FISCAL IMPACT</u>
Design	\$ 5,291,000.00	\$ 5,246,000.00	\$ (45,000.00)
Right-of-Way	\$ 22,000.00	\$ 22,000.00	
Environmental Mitigation	\$ 220,000.00	\$ 220,000.00	
Preconstruction Services	\$ 350,000.00	\$ 350,000.00	
CLOMR/LOMR	\$ 239,000.00	\$ 284,000.00	\$ 45,000.00
Total ILC Value	\$ 6,122,000.00	\$ 6,122,000.00	\$ 0.00

BACKGROUND:

On June 14, 2012, the Regional Flood Control District entered into an interlocal contract with Clark County to provide funding for design, right-of-way, environmental mitigation, preconstruction services and CLOMR/LOMR for the subject project. Supplemental No. 1 dated December 13, 2012 increased funds for the project. Supplemental No. 2 dated May 16, 2013 expanded the scope of the project to include Facility ID miles FLWA 0001 and LVMD 1149 and increased funds for all line items. Supplemental No. 3 dated February 13, 2014 increased design, environmental mitigation, and CLOMR/LOMR funds. The Supplemental No. 4 dated June 8, 2017 increased funding for the project. The project has completed construction. The County now requests a reallocation of funding to complete the Letter of Map Revision with FEMA.

Respectfully submitted,

TAC AGENDA ITEM # 11b Date: 10/25/2018	RFCD AGENDA ITEM # 12b Date: 11/08/2018
CAC AGENDA ITEM # 11b Date: 10/29/2018	


 DENIS CEDERBURG
 Director of Public Works

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:

Date: 10/15/18

LAS VEGAS WASH – SLOAN CHANNEL TO BONANZA ROAD AND FLAMINGO WASH BELOW NELLIS BOULEVARD
REALLOCATION OF FUNDING – CLA15D12

Clark County has submitted a request to reallocate funding within the interlocal contract for design engineering, right-of-way, environmental mitigation, preconstruction services and a Conditional Letter of Map Revision/Letter of Map Revision (CLOMR/LOMR) dated June 14, 2012 and supplemented December 13, 2012, May 16, 2013, February 13, 2014 and June 8, 2017 for the Las Vegas Wash – Sloan Channel to Bonanza Road and Flamingo Wash below Nellis Boulevard project.

The County now requests additional funding to complete the LOMR with FEMA. District funding will be as follows:

	Current Funding	Increase/Decrease	Proposed Funding
Design Engineering	\$5,291,000	(\$45,000)	\$5,246,000
Right-of-Way	\$ 22,000	\$ 0	\$ 22,000
Environmental Mitigation	\$ 220,000	\$ 0	\$ 220,000
Preconstruction Services	\$ 350,000	\$ 0	\$ 350,000
CLOMR/LOMR	\$ 239,000	\$ 45,000	\$ 284,000
Total ILC Value	\$6,122,000	\$ 0	\$6,122,000

Staff Recommendation:

Approve.

Discussion by Technical Advisory Committee:

AGENDA
#11b Date: 10/25/18

Recommendation:

Approve.

Discussion by Citizens Advisory Committee:

AGENDA
#11b Date: 10/29/18

Recommendation:

Approve.

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

**HORIZON RIDGE DETENTION BASIN
CONSTRUCTION CHANGE ORDER NO. 2 – HEN05G16**

RECOMMENDATION SUMMARY

STAFF: Approve.

TECHNICAL ADVISORY: Approve.

CITIZENS ADVISORY: Approve.

**RFCD AGENDA
ITEM #13
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM

SUBJECT: HORIZON RIDGE DETENTION BASIN
PETITIONER: CITY OF HENDERSON
RECOMMENDATION OF PETITIONER: THAT THE CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT APPROVE CHANGE ORDER NO. 2 TO FOR CONSTRUCTION FOR HORIZON RIDGE DETENTION BASIN PROJECT – HEN05G16 (FOR POSSIBLE ACTION)

FISCAL IMPACT: N/A

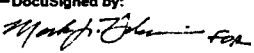
BACKGROUND:

Change Order No. 2 represents an increase of \$64,980 due to an extension of line item 203.02, Cutoff Trench. Engineering consultant estimated the total yards for cut-off trench based on excavating and re-compacting approximately 7- to 10- feet of native material to the depth of bedrock. The actual depth to bedrock on east slope was up to 30-feet, much greater than planned. The line item increase was a result of the additional excavation and re-compaction required.

To date all change orders total \$112,964 or 1.8% to the original construction contract amount of \$6,450,000. This change order cost was reviewed by the project engineer and City staff and were found equitable for the issues involved. The attached change order document details the work and costs involved.

The Interlocal Contract dated April 14, 2016, First Supplemental Interlocal Contract dated January 11, 2018 and Second Supplemental Interlocal Contract dated October 11, 2018 include sufficient funds to support this request.

Respectfully submitted,

DocuSigned by:


 7B63392AE592434
 Edward McGuire, P.E.
 Director of Public Works
 City of Henderson

TAC AGENDA ITEM # 12 Date: 10/25/18	RFCD AGENDA ITEM # 13 Date: 11/08/18
CAC AGENDA ITEM # 12 Date: 10/29/18	

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:

Date: 10/15/18

HORIZON RIDGE DETENTION BASIN
CONSTRUCTION CHANGE ORDER NO. 2 – HEN05G16

The City of Henderson has submitted a request to approve construction change order no. 2 in the amount of \$64,980 for the Horizon Ridge Detention Basin project.

Change Order No. 2 represents an increase of \$64,980 due to an extension of line item 203.02, Cutoff Trench. Engineering consultant estimated the total yards for cut-off trench based on excavating and re-compacting approximate 7 to 10 feet of native material to the depth of bedrock. The actual depth to bedrock on east slope was up to 30-feet, much greater than planned. The line item increase was a result of the additional excavation and re-compaction required.

The Interlocal Contract dated April 14, 2016 and Supplemental Interlocal Contracts dated January 11, 2018 and October 11, 2018 include sufficient funds to support this request.

Staff Recommendation:

Approve.

Discussion by Technical Advisory Committee:

AGENDA
#12 Date: 10/25/18

Recommendation:

Approve.

Discussion by Citizens Advisory Committee:

AGENDA
#12 Date: 10/29/18

Recommendation:

Approve.



CITY OF HENDERSON
CONTRACT CHANGE ORDER

CONTRACT NAME: Horizon Ridge Detention Basin Rebid
CONTRACT NO.: 18090 (PCOH 2015-78-0003 / FC-106)
CONTRACTOR: Las Vegas Paving
CMTS: 18090

C.O. NUMBER:
DATE: 9/26/2018

Funding Sources:
CCRFC Direct Pay HEN05G16

CONTRACTOR:

You are hereby requested to comply with the following change from the contract plans and specifications. Execution of this change order represents full and final costs of all direct, indirect, and delay costs for the scope of services identified hereon unless noted otherwise. This document shall become an amendment to the contract and all provisions of the contract will apply hereto:

ITEM #	QTY or % INCREASE/ (DECREASE)	UNIT	UNIT PRICE	BID ITEM DESCRIPTION AND NECESSITY OF CHANGE	INCREASE/ (DECREASE) TO CONTRACT
ADDITIONAL WORK:					
203.02	1,083	CY	\$ 60.00	LINE ITEM EXTENSION -- CUTOFF TRENCH	\$ 64,980.00
ADDITIONAL WORK SUB-TOTAL:					\$ 64,980.00

COMPLETION DATE: 1/27/2019		Total This Change Order		\$ 64,980.00
DAYS ADDED THIS CO: 0		Total PREVIOUS Change Orders		47,984.00
Days Added--PRIOR COs/Conflicts: 0		NET CHANGE TO CONTRACT		112,964.00
Adjusted COMPLETION DATE: 1/27/2019		ORIGINAL CONTRACT TOTAL		6,450,000.00
		ADJUSTED CONTRACT TOTAL		\$ 6,562,964.00

Effect on Operation and Maintenance NONE
Will this affect expiration or extent of insurance coverage?....NO If "YES" will policies be extended?

Contractor:	<small>DocuSigned by:</small> <i>Michael McComb</i> Las Vegas Paving	Name/Title: Michael McComb, Project Manager	Date: 09/26/2018
Quality Control:	<small>DocuSigned by:</small> <i>Sajan Abraham</i> EBWAD1421008420	Name/Title: Sajan Abraham, P.E. Materials Testing Lab Manager	Date: 09/26/2018
Quality Control:	<small>DocuSigned by:</small> <i>Lance Olson</i> EF3CFEE22874924	Name/Title: Lance Olson, P.E. Quality Control Manager	Date: 09/26/2018
Engineering:	<small>DocuSigned by:</small> <i>Thomas Davy</i> 34P124077462407	Name/Title: Thomas Davy, P.E. City Engineer (or designee)	Date: 09/27/2018
Public Works:	<small>DocuSigned by:</small> <i>Edward McGuire</i> 340710025071002	Name/Title: Edward McGuire, P.E. Director of Public Works (or designee)	Date: 09/27/2018

Council Approval Date: 12/19/2017 **Contract Funding:** CCRFC - \$8,450,000.00 Contingency - \$500,000.00

DISTRIBUTION → Original City Clerk's Office Copies: **CONTRACTOR** QC Sr Inspector--Ed Babine
Project Engineer--Scott Fiedler QC--Sajan Abraham
QC Inspector(s)--Mike Baker/Joe Kolasky

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

**RANGE WASH – ANN BRANCH, PHASE I
AWARD OF BID FOR CONSTRUCTION – NLV03I18**

RECOMMENDATION SUMMARY

STAFF: Receive the report.

TECHNICAL ADVISORY: Receive the report.

CITIZENS ADVISORY: Receive the report.

**RFCD AGENDA
ITEM #14
DATE: 11/08/18**

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM**

SUBJECT:
RANGE WASH – ANN BRANCH, PHASE I
PETITIONER:
DALE DAFFERN, P.E., DIRECTOR OF PUBLIC WORKS CITY OF NORTH LAS VEGAS
RECOMMENDATION OF PETITIONER:
THAT THE CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT RECEIVE A REPORT ON THE RECOMMENDATION FOR BEST BID FOR CONSTRUCTION OF RANGE WASH – ANN BRANCH, PHASE I – NLV03118

FISCAL IMPACT: None by this action. Funding will be provided as follows:

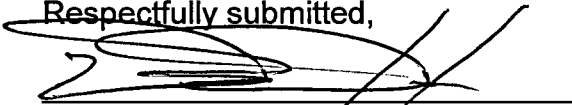
\$2,460,483	Regional Flood Control District
\$ 999,808	Utilities Enterprise Fund
\$5,521,781	Regional Transportation Commission (FRI)
<u>\$ 807,018</u>	SID No. 65
\$9,789,090	TOTAL

BACKGROUND:

On April 25, 2018 five bids were received for the project ranging in cost from \$9,491,902.50 to \$11,226,082.50. With one bid rejected, the recommended best bid was awarded to Las Vegas Paving Corporation in the amount of \$9,789,090.00 or 18.43% higher than the engineer's estimate of \$8,014,743.85 presented to the District Board in February 2018. The Interlocal Contract dated February 8, 2018 between the District and City of North Las Vegas, allocates \$2,470,000.00 for the construction of this project.

A cash flow projection, estimated construction schedule, and a tabulation of bids are attached.

Respectfully submitted,



Dale Daffern, P.E.
Director of Public Works
City of North Las Vegas

TAC AGENDA ITEM # 13 Date: 10/25/18	RFCD AGENDA ITEM # 14 Date: 11/08/18
CAC AGENDA ITEM # 13 Date: 10/29/18	

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:

Date: 10/15/18

RANGE WASH – ANN BRANCH, PHASE I
AWARD OF BID FOR CONSTRUCTION – NLV03I18

On April 25, 2018, bids were open for Range Wash – Ann Branch, Phase I project. Five (5) bids were received ranging in cost from \$9,491,902.50 to \$11,226,082.50. With one bid rejected, the recommended best bid was to Las Vegas Paving Corporation in the amount of \$9,789,090.00 or 18.43% higher than the engineer's estimate of \$8,014,743.85 presented to the District Board in February 2018.

The Interlocal Contract dated February 8, 2018 between the District and the City allocates \$2,470,00.00 for construction of this project.

A cash flow projection, estimated construction schedule, and a tabulation of base bid are attached.

Staff Recommendation:

Receive the report.

Discussion by Technical Advisory Committee:

AGENDA
#13 Date: 10/25/18

Recommendation:

Receive the report.

Discussion by Citizens Advisory Committee:

AGENDA
#13 Date: 10/29/18

Recommendation:

Receive the report.

Clark County Regional Flood Control District Cash Flow Projection

Date: 10/15/2018
 Project Number: NLV03118
 Project Name: Range Wash - Ann Branch, Phase I
 Project Type: Storm Drain
 ILC Amount: \$ 2,668,000 \$2,668,000

Construction Schedule			
Milestone	Estimate	Revised	Actual
Award of Bid	May-18	May-18	
CONS Start	July-18	July-18	
CONS Complete	July-19	July-19	
Project Duration	13 months	13 months	

Billing Month	CCRFCD Original Estimate		Actual Drawdown		CCRFCD Revised Estimate	
	\$	%	\$	%	\$	%
July-18	26,680	1			26,680	1
August-18	400,200	15			400,200	15
September-18	400,200	15			400,200	15
October-18	533,600	20			533,600	20
November-18	400,200	15			400,200	15
December-18	266,800	10			266,800	10
January-19	266,800	10			266,800	10
February-19	133,400	5			133,400	5
March-19	106,720	4			106,720	4
April-19	106,720	4			106,720	4
May-19	0	0			0	0
June-19	0	0			0	0
July-19	26,680	1			26,680	1
TOTAL	2,668,000	100			2,668,000	100

BID ABSTRACT
CITY OF NORTH LAS VEGAS
TROPICAL PARKWAY / HOLLYWOOD BOULEVARD
NICCO WAY TO I-15
CIP PROJECT NO. 10412
BID NO. 1530 - LABOR COMMISSION NO. PWP CL-2018-17
BID DATE: APRIL 25, 2018

ITEM	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE		LAS VEGAS PAVING CORP.		TAB CONTRACTORS, INC.		GRANITE CONSTRUCTION COMPANY		MEADOW VALLEY CONTRACTORS, INC. DBA ACC SOUTHWEST	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
104.01	Traffic Control	1	LS	161000	\$ 161,000.00	\$ 55,000.00	\$ 55,000.00	\$ 170,000.00	\$ 170,000.00	\$ 100,000.00	\$ 100,000.00	\$ 245,000.00	\$ 245,000.00
105.01	Construction Staking	1	LS	25000	\$ 25,000.00	\$ 91,000.00	\$ 91,000.00	\$ 80,000.00	\$ 80,000.00	\$ 105,000.00	\$ 105,000.00	\$ 65,000.00	\$ 65,000.00
107.01	Public Outreach	1	LS	10000	\$ 10,000.00	\$ 6,000.00	\$ 6,000.00	\$ 3,700.00	\$ 3,700.00	\$ 25,000.00	\$ 25,000.00	\$ 10,000.00	\$ 10,000.00
109.01	Construction Conflicts and Additional Work	1	LS	650000	\$ 650,000.00	\$ 650,000.00	\$ 650,000.00	\$ 650,000.00	\$ 650,000.00	\$ 650,000.00	\$ 650,000.00	\$ 650,000.00	\$ 650,000.00
110.01	Training	2,000	Hour	0.8	\$ 1,600.00	\$ 1.50	\$ 3,000.00	\$ 1.40	\$ 2,800.00	\$ 1.40	\$ 2,800.00	\$ 3.50	\$ 7,000.00
200.01	Mobilization and Demobilization	1	LS	\$ 550,000.00	\$ 550,000.00	\$ 518,376.00	\$ 518,376.00	\$ 535,000.00	\$ 535,000.00	\$ 849,501.90	\$ 849,501.90	\$ 1,100,000.00	\$ 1,100,000.00
201.01	Cleaning and Grubbing	1	LS	\$ 20,000.00	\$ 20,000.00	\$ 12,000.00	\$ 12,000.00	\$ 15,000.00	\$ 15,000.00	\$ 41,000.00	\$ 41,000.00	\$ 28,000.00	\$ 28,000.00
202.01	2-Inch Cold Paving	23,040	SY	\$ 4.00	\$ 92,160.00	\$ 1.70	\$ 39,168.00	\$ 3.00	\$ 69,120.00	\$ 1.55	\$ 35,712.00	\$ 2.00	\$ 46,080.00
202.02	Remove Existing Fence	1,817	LF	\$ 6.00	\$ 10,902.00	\$ 4.00	\$ 7,268.00	\$ 2.00	\$ 3,634.00	\$ 2.00	\$ 3,634.00	\$ 2.50	\$ 4,542.50
202.03	Remove Existing Gate	3	EA	\$ 400.00	\$ 1,200.00	\$ 110.00	\$ 330.00	\$ 100.00	\$ 300.00	\$ 405.00	\$ 1,215.00	\$ 500.00	\$ 1,500.00
202.04	Remove 18-inch Reinforced Concrete Pipe	123	LF	\$ 35.00	\$ 4,305.00	\$ 60.00	\$ 7,380.00	\$ 60.00	\$ 7,380.00	\$ 46.00	\$ 5,658.00	\$ 30.00	\$ 3,690.00
202.05	Remove Storm Drain Manhole	1	EA	\$ 500.00	\$ 500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00
202.06	Remove Bubbler	1	EA	\$ 500.00	\$ 500.00	\$ 2,300.00	\$ 2,300.00	\$ 10,000.00	\$ 10,000.00	\$ 3,500.00	\$ 3,500.00	\$ 2,500.00	\$ 2,500.00
203.01	Roadway Excavation	41,500	CY	12	\$ 498,000.00	\$ 9.00	\$ 373,500.00	\$ 12.00	\$ 498,000.00	\$ 6.00	\$ 249,000.00	\$ 13.50	\$ 560,250.00
203.02	Earthen Channel Excavation	374	CY	12	\$ 4,488.00	\$ 9.00	\$ 3,366.00	\$ 22.00	\$ 8,228.00	\$ 10.00	\$ 3,740.00	\$ 23.50	\$ 8,789.00
302.01	Type II Aggregate Base	20,080	CY	40	\$ 803,200.00	\$ 31.00	\$ 622,480.00	\$ 22.00	\$ 441,760.00	\$ 48.50	\$ 973,880.00	\$ 38.50	\$ 773,080.00
402.01	Plantmix Bituminous Surface	11,840	CY	151	\$ 1,787,840.00	\$ 141.00	\$ 1,669,440.00	\$ 147.00	\$ 1,740,480.00	\$ 153.00	\$ 1,811,520.00	\$ 165.00	\$ 1,953,600.00
402.02	Asphalt Curb	353	LF	20	\$ 7,060.00	\$ 11.50	\$ 4,059.50	\$ 24.00	\$ 8,472.00	\$ 38.00	\$ 13,414.00	\$ 13.50	\$ 4,765.50
409.01	10-Inch 4000 PSI Concrete Bus Pad	411	SY	50	\$ 20,550.00	\$ 82.00	\$ 33,702.00	\$ 95.00	\$ 39,045.00	\$ 98.00	\$ 40,278.00	\$ 94.00	\$ 38,634.00
502.01	6-Foot x 6-Foot Reinforced Concrete Box	961	LF	500	\$ 480,500.00	\$ 535.00	\$ 514,135.00	\$ 585.00	\$ 562,185.00	\$ 750.00	\$ 720,750.00	\$ 600.00	\$ 576,600.00
502.02	9-Foot x 6-Foot Reinforced Concrete Box	1,562	LF	800	\$ 1,249,600.00	\$ 745.00	\$ 1,163,690.00	\$ 880.00	\$ 1,374,560.00	\$ 1,050.00	\$ 1,640,100.00	\$ 855.00	\$ 1,335,510.00
502.03	6-Foot x 6-Foot to 9-Foot x 6-Foot Transition Structure	1	EA	2200	\$ 2,200.00	\$ 45,500.00	\$ 45,500.00	\$ 28,000.00	\$ 28,000.00	\$ 55,000.00	\$ 55,000.00	\$ 37,000.00	\$ 37,000.00
502.04	Concrete Flume	1	EA	30000	\$ 30,000.00	\$ 38,400.00	\$ 38,400.00	\$ 35,000.00	\$ 35,000.00	\$ 70,000.00	\$ 70,000.00	\$ 44,000.00	\$ 44,000.00
502.05	Precast RCP Plug (24-Inch)	6	EA	1250	\$ 7,500.00	\$ 1,400.00	\$ 8,400.00	\$ 920.00	\$ 5,520.00	\$ 1,400.00	\$ 8,400.00	\$ 1,400.00	\$ 8,400.00
502.06	9-foot x 20-foot Bubbler	1	SF	20000	\$ 20,000.00	\$ 74,000.00	\$ 74,000.00	\$ 68,000.00	\$ 68,000.00	\$ 78,000.00	\$ 78,000.00	\$ 82,000.00	\$ 82,000.00
603.01	18-inch Reinforced Concrete Pipe (Class III)	462	LF	125	\$ 57,750.00	\$ 205.00	\$ 94,710.00	\$ 170.00	\$ 78,540.00	\$ 190.00	\$ 87,780.00	\$ 300.00	\$ 138,600.00
603.02	24-inch Reinforced Concrete Pipe (Class III)	547	LF	135	\$ 73,845.00	\$ 286.00	\$ 156,442.00	\$ 185.00	\$ 101,195.00	\$ 195.00	\$ 106,665.00	\$ 250.00	\$ 136,750.00
603.03	30-inch Reinforced Concrete Pipe (Class III)	235	LF	175	\$ 41,125.00	\$ 335.00	\$ 78,725.00	\$ 198.00	\$ 46,530.00	\$ 270.00	\$ 63,450.00	\$ 275.00	\$ 64,625.00
603.04	48-inch Reinforced Concrete Pipe (Class III)	1,552	LF	180	\$ 279,360.00	\$ 322.00	\$ 499,744.00	\$ 295.00	\$ 457,840.00	\$ 252.00	\$ 391,104.00	\$ 262.00	\$ 406,624.00
603.05	60-inch Reinforced Concrete Pipe (Class III)	387	LF	215	\$ 83,205.00	\$ 425.00	\$ 164,475.00	\$ 400.00	\$ 154,800.00	\$ 315.00	\$ 121,905.00	\$ 342.00	\$ 132,354.00
603.06	Precast End Section	1	EA	250	\$ 250.00	\$ 1,500.00	\$ 1,500.00	\$ 5,700.00	\$ 5,700.00	\$ 2,300.00	\$ 2,300.00	\$ 2,500.00	\$ 2,500.00
605.01	18-Inch PVC Pipe (C905) Storm Drain Pipe	46	LF	100	\$ 4,600.00	\$ 200.00	\$ 9,200.00	\$ 140.00	\$ 6,440.00	\$ 194.00	\$ 8,924.00	\$ 244.00	\$ 11,224.00
605.02	24-Inch PVC Pipe (C905) Storm Drain Pipe	142	LF	110	\$ 15,620.00	\$ 322.00	\$ 45,724.00	\$ 185.00	\$ 26,270.00	\$ 221.00	\$ 31,382.00	\$ 274.00	\$ 38,908.00
603.03	30-Inch PVC Pipe (C905) Storm Drain Pipe	45	LF	120	\$ 5,400.00	\$ 405.00	\$ 18,225.00	\$ 205.00	\$ 9,225.00	\$ 290.00	\$ 13,050.00	\$ 628.00	\$ 28,260.00
609.01	RCB Access Manhole	7	EA	3000	\$ 21,000.00	\$ 2,600.00	\$ 18,200.00	\$ 2,200.00	\$ 15,400.00	\$ 2,412.00	\$ 16,884.00	\$ 1,750.00	\$ 12,250.00
609.02	Type III Storm Drain Manhole	4	EA	8000	\$ 32,000.00	\$ 12,700.00	\$ 50,800.00	\$ 8,400.00	\$ 33,600.00	\$ 6,238.00	\$ 24,952.00	\$ 8,300.00	\$ 33,200.00
609.03	NDOT Type 4 Storm Drain Manhole	7	EA	10000	\$ 70,000.00	\$ 15,400.00	\$ 107,800.00	\$ 9,800.00	\$ 68,600.00	\$ 7,951.00	\$ 55,657.00	\$ 10,200.00	\$ 71,400.00
609.04	Drop Inlet Type "DM" (L=5.0')	1	EA	5000	\$ 5,000.00	\$ 9,400.00	\$ 9,400.00	\$ 9,000.00	\$ 9,000.00	\$ 7,370.00	\$ 7,370.00	\$ 9,800.00	\$ 9,800.00
609.05	Drop Inlet Type "DM" (L=10.0')	1	EA	10000	\$ 10,000.00	\$ 15,500.00	\$ 15,500.00	\$ 14,200.00	\$ 14,200.00	\$ 12,479.00	\$ 12,479.00	\$ 15,600.00	\$ 15,600.00
609.06	Drop Inlet Type "DM" (L=15.0')	1	EA	15000	\$ 15,000.00	\$ 16,750.00	\$ 16,750.00	\$ 15,200.00	\$ 15,200.00	\$ 12,861.00	\$ 12,861.00	\$ 17,400.00	\$ 17,400.00
609.07	Drop Inlet Type "DM" (L=20.0')	9	EA	20000	\$ 180,000.00	\$ 20,600.00	\$ 185,400.00	\$ 18,700.00	\$ 168,300.00	\$ 15,518.00	\$ 139,662.00	\$ 23,100.00	\$ 207,900.00
609.08	Vertically Adjust Storm Drain Manhole	12	EA	1000	\$ 12,000.00	\$ 1,000.00	\$ 12,000.00	\$ 900.00	\$ 10,800.00	\$ 1,117.00	\$ 13,404.00	\$ 1,200.00	\$ 14,400.00
613.01	Type A Curb	2,257	LF	12	\$ 27,084.00	\$ 8.00	\$ 18,056.00	\$ 13.00	\$ 29,341.00	\$ 13.00	\$ 29,341.00	\$ 16.50	\$ 37,240.50
613.02	Type L Curb and Gutter	10,673	LF	22	\$ 234,806.00	\$ 11.00	\$ 117,403.00	\$ 13.00	\$ 138,749.00	\$ 13.50	\$ 144,085.50	\$ 13.00	\$ 138,749.00
613.03	Concrete Median Island (4-Inch)	633	SY	60	\$ 37,980.00	\$ 40.00	\$ 25,320.00	\$ 61.00	\$ 38,613.00	\$ 52.50	\$ 33,232.50	\$ 46.00	\$ 29,118.00
613.04	Concrete Cross Gutter	1,021	SY	130	\$ 132,730.00	\$ 93.00	\$ 94,953.00	\$ 84.00	\$ 85,764.00	\$ 90.00	\$ 91,890.00	\$ 86.50	\$ 88,316.50
613.05	Concrete Sidewalk (4-Inch)	3,355	SF	6	\$ 20,130.00	\$ 6.25	\$ 20,968.75	\$ 6.00	\$ 20,130.00	\$ 9.00	\$ 30,195.00	\$ 5.10	\$ 17,110.50
613.06	Detectable Warning Panels	320	EA	80	\$ 25,600.00	\$ 33.50	\$ 10,720.00	\$ 41.00	\$ 13,120.00	\$ 47.00	\$ 15,040.00	\$ 45.00	\$ 14,400.00
613.07	Concrete Tack On Median (6-Inch)	38	EA	80	\$ 3,040.00	\$ 75.50	\$ 2,869.00	\$ 68.00	\$ 2,584.00	\$ 67.50	\$ 2,565.00	\$ 76.50	\$ 2,907.00
616.01	72-Inch Chain Link Fence	1,848	LF	20	\$ 36,960.00	\$ 18.00	\$ 33,264.00	\$ 17.00	\$ 31,416.00	\$ 12.00	\$ 22,176.00	\$ 13.50	\$ 24,948.00
616.02	16-Foot Double Sign Gate	3	EA	1500	\$ 4,500.00	\$ 1,400.00	\$ 4,200.00	\$ 1,315.00	\$ 3,945.00	\$ 1,619.00	\$ 4,857.00	\$ 1,800.00	\$ 5,400.00
619.01	Marker Posts (K-71)	6	EA	200	\$ 1,200.00	\$ 215.00	\$ 1,290.00	\$ 207.00	\$ 1,242.00	\$ 203.00	\$ 1,218.00	\$ 254.00	\$ 1,524.00
623.01	No. 7 Pull Box	11	EA	900	\$ 9,900.00	\$ 1,200.00	\$ 13,200.00	\$ 900.00	\$ 9,900.00	\$ 1,061.00	\$ 11,671.00	\$ 1,300.00	\$ 14,300.00
623.02	P30 Pull Box	25	EA	1000	\$ 25,000.00	\$ 900.00	\$ 22,500.00	\$ 950.00	\$ 23,750.00	\$ 857.00	\$ 21,425.00	\$ 950.00	\$ 23,750.00
623.03	No. 3-1/2 Pull Box	14	EA	350	\$ 4,900.00	\$ 385.00	\$ 5,390.00	\$ 750.00	\$ 10,500.00	\$ 672.00	\$ 9,408.00	\$ 410.00	\$ 5,740.00
623.04	3-Inch Conduit	1,770	LF	12	\$ 21,240.00	\$ 10.00	\$ 17,700.00	\$ 9.50	\$ 16,815.00	\$ 9.00	\$ 15,930.00	\$ 10.00	\$ 17,700.00
623.05	2-Inch Conduit	2,530	LF	11	\$ 27,830.00	\$ 9.00	\$ 22,770.00	\$ 14.50	\$ 36,685.00	\$ 8.00	\$ 20,240.00	\$ 9.00	\$ 22,770.00
623.06	4-Inch Conduit	8,810	LF	16	\$ 140,960.00	\$ 10.00	\$ 88,100.00	\$ 13.00	\$ 114,530.00	\$ 9.50	\$ 83,695.00	\$ 10.50	\$ 92,505.00
623.07	Modifications for 1-B Pole at Tropical Pkwy and Mt Hood St.	1	LS	11000	\$ 11,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 2,654.00	\$ 2,654.00	\$ 3,000.00	\$ 3,000.00
627.01	Remove and Salvage Traffic Signs (Ground Mounted)	30	EA	100	\$ 3,000.00	\$ 40.00	\$ 1,200.00	\$ 45.00	\$ 1,350.00	\$ 43.00	\$ 1,290.00	\$ 58.50	\$ 1,895.00
627.02	Remove and Salvage Traffic Signs (Panel Only)	15	EA	50	\$ 750.00	\$ 40.00	\$ 600.00	\$ 45.00	\$ 675.00	\$ 43.00	\$ 645.00	\$ 46.00	\$ 690.00
627.03	Permanent Signs (Ground Mounted) (Metal Post)	112	EA	300	\$ 33,600.00	\$ 195.00	\$ 21,840.00	\$ 180.00	\$ 20,160.00	\$ 197.00	\$ 22,064.00	\$ 240.00	\$ 26,880.00

BID ABSTRACT
CITY OF NORTH LAS VEGAS
TROPICAL PARKWAY / HOLLYWOOD BOULEVARD
NICCO WAY TO I-15
CIP PROJECT NO. 10412
BID NO. 1530 - LABOR COMMISSION NO. PWP CL-2018-17
BID DATE: APRIL 25, 2018

ITEM	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE		LAS VEGAS PAVING CORP.		TAB CONTRACTORS, INC.		GRANITE CONSTRUCTION COMPANY		MEADOW VALLEY CONTRACTORS, INC. DBA ACC SOUTHWEST	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
627.04	Permanent Signs (Panel Only)	15	EA	200	\$ 3,000.00	\$ 195.00	\$ 2,925.00	\$ 180.00	\$ 2,700.00	\$ 197.00	\$ 2,955.00	\$ 170.00	\$ 2,550.00
627.05	Remove and Salvage Type III Barricade	5	EA	200	\$ 1,000.00	\$ 40.00	\$ 200.00	\$ 90.00	\$ 450.00	\$ 43.00	\$ 215.00	\$ 413.00	\$ 2,065.00
627.06	Type III Barricades	45	EA	800	\$ 36,000.00	\$ 430.00	\$ 19,350.00	\$ 410.00	\$ 18,450.00	\$ 438.00	\$ 19,710.00	\$ 661.00	\$ 29,745.00
628.01	Pavement Markings (Type 2) (Arrow Legend)	42	EA	150	\$ 6,300.00	\$ 125.00	\$ 5,250.00	\$ 120.00	\$ 5,040.00	\$ 121.00	\$ 5,082.00	\$ 152.00	\$ 6,384.00
628.02	Pavement Markings (Type 2) ("ONLY" Legend)	5	EA	200	\$ 1,000.00	\$ 180.00	\$ 900.00	\$ 160.00	\$ 800.00	\$ 162.00	\$ 810.00	\$ 305.00	\$ 1,525.00
628.03	Pavement Markings (Type 2) ("BUSES" Legend)	2	EA	250	\$ 500.00	\$ 240.00	\$ 480.00	\$ 250.00	\$ 500.00	\$ 253.00	\$ 506.00	\$ 486.00	\$ 972.00
628.04	Pavement Markings (Type 2) (Crosswalks and Stop Bars)	1,576	SF	6	\$ 9,456.00	\$ 8.00	\$ 12,608.00	\$ 7.50	\$ 11,820.00	\$ 7.60	\$ 11,977.60	\$ 5.00	\$ 7,880.00
628.05	Pavement Markings (Type 2) (Varies)	1,960	SF	6	\$ 11,760.00	\$ 8.00	\$ 15,680.00	\$ 7.50	\$ 14,700.00	\$ 7.60	\$ 14,896.00	\$ 5.00	\$ 9,800.00
628.06	Pavement Markings (Polyurea) (6-Inch Solid White Line)	12,770	LF	1	\$ 12,770.00	\$ 1.00	\$ 12,770.00	\$ 1.00	\$ 12,770.00	\$ 1.00	\$ 12,770.00	\$ 1.00	\$ 12,770.00
628.07	Pavement Markings (Polyurea) (8-Inch Solid White Line)	550	LF	1.3	\$ 715.00	\$ 2.00	\$ 1,100.00	\$ 1.50	\$ 825.00	\$ 1.50	\$ 825.00	\$ 1.40	\$ 770.00
628.08	Pavement Markings (Polyurea) (8-Inch White Drop Line)	1,207	LF	1	\$ 1,207.00	\$ 1.00	\$ 1,207.00	\$ 1.00	\$ 1,207.00	\$ 0.50	\$ 603.50	\$ 1.00	\$ 1,207.00
628.09	Reflective Paint, Islands and Curb	144	SF	1.5	\$ 216.00	\$ 1.50	\$ 216.00	\$ 1.50	\$ 216.00	\$ 1.50	\$ 216.00	\$ 3.00	\$ 432.00
629.01	Vertically Adjust Water Valve Box	50	EA	650	\$ 32,500.00	\$ 800.00	\$ 40,000.00	\$ 350.00	\$ 17,500.00	\$ 670.00	\$ 33,500.00	\$ 600.00	\$ 30,000.00
629.02	Vertically Adjust Water Manhole	2	EA	1500	\$ 3,000.00	\$ 1,200.00	\$ 2,400.00	\$ 1,200.00	\$ 2,400.00	\$ 2,900.00	\$ 5,800.00	\$ 1,250.00	\$ 2,500.00
629.03	6-Inch PVC (C900) Waterline	139	LF	60	\$ 8,340.00	\$ 150.00	\$ 20,850.00	\$ 105.00	\$ 14,595.00	\$ 117.00	\$ 16,263.00	\$ 198.00	\$ 27,522.00
629.04	8-Inch PVC (C900) Waterline	308	LF	80	\$ 24,640.00	\$ 150.00	\$ 46,200.00	\$ 95.00	\$ 29,260.00	\$ 122.00	\$ 37,576.00	\$ 122.00	\$ 37,576.00
629.05	12-Inch PVC (C900) Waterline	2,616	EA	100	\$ 261,600.00	\$ 128.00	\$ 334,848.00	\$ 95.00	\$ 248,520.00	\$ 121.00	\$ 316,536.00	\$ 126.00	\$ 329,616.00
629.06	1-Inch Air Vacuum Relief Valve (AVAR)	1	EA	5000	\$ 5,000.00	\$ 7,000.00	\$ 7,000.00	\$ 7,000.00	\$ 7,000.00	\$ 7,569.00	\$ 7,569.00	\$ 5,600.00	\$ 5,600.00
629.07	Remove and Relocate Existing Pressure Reducing Valve	1	EA	950	\$ 950.00	\$ 47,000.00	\$ 47,000.00	\$ 38,000.00	\$ 38,000.00	\$ 48,157.00	\$ 48,157.00	\$ 10,800.00	\$ 10,800.00
629.08	16-Inch Steel Casing	31	LF	75	\$ 2,325.00	\$ 165.00	\$ 5,115.00	\$ 140.00	\$ 4,340.00	\$ 110.00	\$ 3,410.00	\$ 220.00	\$ 6,820.00
629.09	18-Inch Steel Casing	31	LF	90	\$ 2,790.00	\$ 190.00	\$ 5,890.00	\$ 165.00	\$ 5,115.00	\$ 147.50	\$ 4,572.50	\$ 273.00	\$ 8,463.00
629.10	24-Inch Steel Casing	108	LF	110	\$ 11,880.00	\$ 285.00	\$ 30,780.00	\$ 170.00	\$ 18,360.00	\$ 171.00	\$ 18,468.00	\$ 280.00	\$ 30,240.00
629.11	24-Inch Steel Split (casing)	53	LF	150	\$ 7,950.00	\$ 500.00	\$ 26,500.00	\$ 220.00	\$ 11,660.00	\$ 311.50	\$ 16,509.50	\$ 343.00	\$ 18,179.00
629.12	30-Inch Steel Split (casing)	22	LF	200	\$ 4,000.00	\$ 680.00	\$ 14,960.00	\$ 330.00	\$ 7,260.00	\$ 332.50	\$ 7,315.00	\$ 398.00	\$ 8,756.00
629.12	2-Inch Blowoff Valve	7	EA	500	\$ 3,500.00	\$ 2,250.00	\$ 15,750.00	\$ 1,750.00	\$ 12,250.00	\$ 1,932.00	\$ 13,524.00	\$ 2,500.00	\$ 17,500.00
630.01	Vertically Adjust Sewer Manhole	26	EA	1000	\$ 26,000.00	\$ 1,000.00	\$ 26,000.00	\$ 2,250.00	\$ 58,500.00	\$ 3,235.50	\$ 84,123.00	\$ 2,200.00	\$ 57,200.00
630.02	8-Inch PVC (SDR 35) Sanitary Sewer Line	1,227	LF	120	\$ 147,240.00	\$ 115.00	\$ 141,105.00	\$ 125.00	\$ 153,375.00	\$ 117.00	\$ 143,559.00	\$ 117.00	\$ 143,559.00
630.03	10-Inch PVC (SDR 35) Sanitary Sewer Line	1,050	LF	130	\$ 136,500.00	\$ 135.00	\$ 141,750.00	\$ 125.00	\$ 131,250.00	\$ 120.00	\$ 126,000.00	\$ 118.00	\$ 123,900.00
630.04	12-Inch PVC (SDR 35) Sanitary Sewer Line	2,969	EA	150	\$ 445,350.00	\$ 180.00	\$ 445,350.00	\$ 140.00	\$ 415,660.00	\$ 125.00	\$ 371,125.00	\$ 133.00	\$ 394,877.00
630.05	48-Inch Sanitary Sewer Manhole	15	EA	10000	\$ 150,000.00	\$ 13,200.00	\$ 198,000.00	\$ 13,500.00	\$ 202,500.00	\$ 15,630.00	\$ 234,450.00	\$ 12,000.00	\$ 180,000.00
630.06	72-Inch Sanitary Sewer Manhole	1	EA	25000	\$ 25,000.00	\$ 16,500.00	\$ 16,500.00	\$ 30,000.00	\$ 30,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,300.00	\$ 20,300.00
630.07	20-Inch Steel Casing	28	LF	150	\$ 4,200.00	\$ 200.00	\$ 5,600.00	\$ 160.00	\$ 4,480.00	\$ 75.00	\$ 2,100.00	\$ 300.00	\$ 8,400.00
630.08	10-Inch PVC (C900) Sanitary Sewer Line	245	LF	130	\$ 31,850.00	\$ 155.00	\$ 37,975.00	\$ 145.00	\$ 35,525.00	\$ 130.00	\$ 31,850.00	\$ 134.00	\$ 32,830.00
633.01	Non-reflective Pavement Markers	6,550	EA	2.5	\$ 16,375.00	\$ 2.65	\$ 17,357.50	\$ 2.50	\$ 16,375.00	\$ 2.50	\$ 16,375.00	\$ 2.50	\$ 16,375.00
633.02	Reflective Pavement Markers	2,500	EA	3	\$ 7,500.00	\$ 2.65	\$ 6,625.00	\$ 2.50	\$ 6,250.00	\$ 2.50	\$ 6,250.00	\$ 2.50	\$ 6,250.00
637.01	Dust Control	1	LS	50000	\$ 50,000.00	\$ 67,000.25	\$ 67,000.25	\$ 140,000.00	\$ 140,000.00	\$ 35,000.00	\$ 35,000.00	\$ 62,000.00	\$ 62,000.00
637.02	Temporary Pollution Control	1	LS	20000	\$ 20,000.00	\$ 7,700.00	\$ 7,700.00	\$ 13,000.00	\$ 13,000.00	\$ 33,000.00	\$ 33,000.00	\$ 9,000.00	\$ 9,000.00
637.03	NPDES Discharge Permit	1	LS	20000	\$ 20,000.00	\$ 250.00	\$ 250.00	\$ 13,000.00	\$ 13,000.00	\$ 400.00	\$ 400.00	\$ 4,500.00	\$ 4,500.00
645.01	Non-City Owned Utility Coordination	1	LS	10000	\$ 10,000.00	\$ 1,000.00	\$ 1,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,000.00	\$ 1,000.00	\$ 5,700.00	\$ 5,700.00
670.01	NV Energy Duct Bank With 2-6" PVC Conduit	840	LF	50	\$ 42,000.00	\$ 40.00	\$ 33,600.00	\$ 55.00	\$ 46,200.00	\$ 38.00	\$ 31,920.00	\$ 42.00	\$ 35,280.00
670.02	Remove and Relocate Existing Electric Manhole	1	EA	25000	\$ 25,000.00	\$ 9,600.00	\$ 9,600.00	\$ 19,500.00	\$ 19,500.00	\$ 9,100.00	\$ 9,100.00	\$ 10,200.00	\$ 10,200.00
670.03	Vertically Adjust Existing Electric Pull Box	1	EA	3000	\$ 3,000.00	\$ 1,765.00	\$ 1,765.00	\$ 4,400.00	\$ 4,400.00	\$ 1,684.00	\$ 1,684.00	\$ 1,860.00	\$ 1,860.00
670.04	Vertically Adjust Existing Electric Manhole (RS-94)	5	EA	3200	\$ 16,000.00	\$ 1,200.00	\$ 6,000.00	\$ 7,200.00	\$ 36,000.00	\$ 1,123.00	\$ 5,615.00	\$ 1,240.00	\$ 6,200.00
BASE-BID TOTAL					\$ 9,775,284.00		\$ 9,789,090.00		\$ 9,997,846.00		\$ 10,915,371.00	A	\$11,226,082.50

Subcontractors:	Self Performed Work	Las Vegas Paving Corp.	TAB Contractors, Inc.	Granite Construction Company	Meadow Valley Contractors, INC. DBA ACC Southwest
* TAND Inc. submitted a non-responsive bid that was rejected in accordance with the Instructions to Bidders IB.2.C and IB.2.F (8).	Electrical	Las Vegas Electric	MCA Construction	Las Vegas Electric	
	Striping & Signs	Highway Striping & Signs	Nevada Barricade & Sign	Nevada Barricade & Sign	
	Drop Inlets / Manholes	Olson Precast	Olson Precast	Olson Precast	Olson Precast
	Asphalt Paving	Las Vegas Paving	Las Vegas Paving	Las Vegas Paving	Las Vegas Paving
	Curb, Gutter, Sidewalk	Stewart & Sundell	Stewart & Sundell	Stewart & Sundell	Stewart & Sundell
Suppliers:	Sanitary Pipeline	Core & Main	Core & Main	Core & Main	Core & Main
	Asphalt Cement (AC) Pavement	Las Vegas Paving	Las Vegas Paving	Las Vegas Paving	Las Vegas Paving
	Sanitary Sewer Manholes	Armorock	Olson Precast	Olson Precast	Olson Precast
	Reinforced Concrete Pipe / Box		Jensen Precast	Jensen Precast	

**Tropical Parkway/Hollywood Boulevard, Nicco Way to I-15
Bid Funding Breakdown
May 2018**

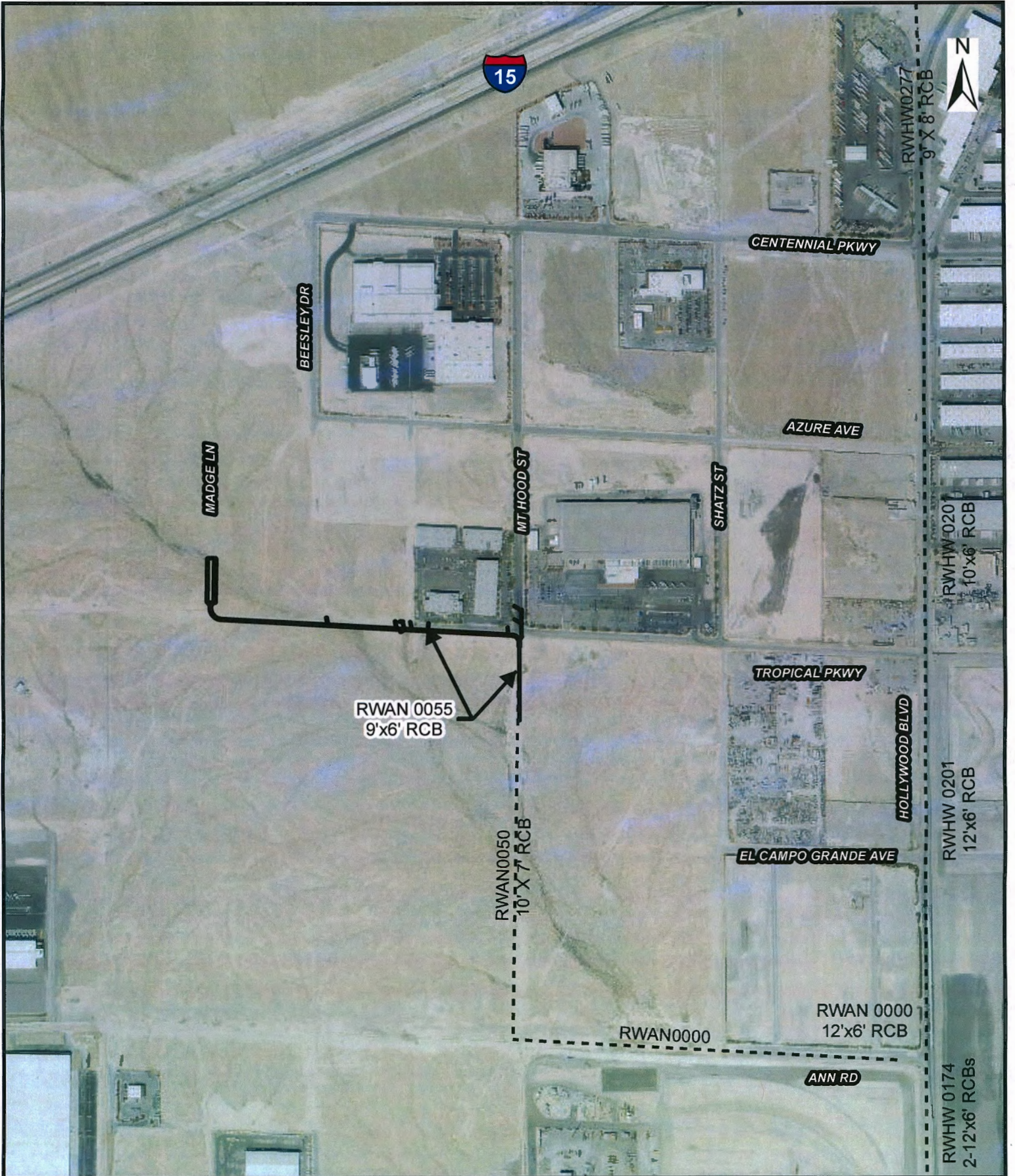
Item No.	Descriptions	Unit	Unit Cost	CCRCD		SID		CNLV		RTC		TOTAL	
				Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
104.01	Traffic Control	LS	\$ 55,000.00		\$ -		\$ -		\$ -	1	\$ 55,000.00	1	\$ 55,000.00
105.01	Construction Staking	LS	\$ 91,000.00		\$ -		\$ -		\$ -	1	\$ 91,000.00	1	\$ 91,000.00
107.01	Public Outreach	LS	\$ 6,000.00		\$ -		\$ -		\$ -	1	\$ 6,000.00	1	\$ 6,000.00
109.01	Construction Conflicts and Additional Work	FA	\$ 650,000.00		\$ -	0.1	\$ 65,000.00	0.2	\$ 130,000.00	0.7	\$ 455,000.00	1	\$ 650,000.00
110.01	Training	Hour	\$ 1.50		\$ -		\$ -		\$ -	2,000	\$ 3,000.00	2,000	\$ 3,000.00
200.01	Mobilization and Demobilization	LS	\$ 518,376.00		\$ -	0.2	\$ 103,675.20	0.1	\$ 51,837.60	0.7	\$ 362,863.20	1	\$ 518,376.00
201.01	Clearing and Grubbing	LS	\$ 12,000.00		\$ -	0.2	\$ 2,400.00	0.1	\$ 1,200.00	0.7	\$ 8,400.00	1	\$ 12,000.00
202.01	2-Inch Cold Planing	SY	\$ 1.70		\$ -		\$ -		\$ -	23,040	\$ 39,168.00	23,040	\$ 39,168.00
202.02	Remove Existing Fence	LF	\$ 4.00		\$ -		\$ -		\$ -	1,817	\$ 7,268.00	1,817	\$ 7,268.00
202.03	Remove Existing Gate	EA	\$ 110.00		\$ -		\$ -		\$ -	3	\$ 330.00	3	\$ 330.00
202.04	Remove 18-inch Reinforced Concrete Pipe	LF	\$ 60.00	123	\$ 7,380.00		\$ -		\$ -		\$ -	123	\$ 7,380.00
202.05	Remove Storm Drain Manhole	EA	\$ 2,500.00	1	\$ 2,500.00		\$ -		\$ -		\$ -	1	\$ 2,500.00
202.06	Remove Bubbler	EA	\$ 2,300.00	1	\$ 2,300.00		\$ -		\$ -		\$ -	1	\$ 2,300.00
203.01	Roadway Excavation	CY	\$ 9.00	372	\$ 3,348.00		\$ -		\$ -	41,128	\$ 370,152.00	41,500	\$ 373,500.00
203.02	Earthen Channel Excavation	CY	\$ 9.00	374	\$ 3,366.00		\$ -		\$ -		\$ -	374	\$ 3,366.00
302.01	Type II Aggregate Base	CY	\$ 31.00		\$ -		\$ -		\$ -	20,080	\$ 622,480.00	20,080	\$ 622,480.00
402.01	Plantmix Bituminous Surface	CY	\$ 141.00		\$ -		\$ -		\$ -	11,840	\$ 1,669,440.00	11,840	\$ 1,669,440.00
402.02	Asphalt Curb	LF	\$ 11.50		\$ -		\$ -		\$ -	353	\$ 4,059.50	353	\$ 4,059.50
409.01	10-Inch 4000 PSI Concrete Bus Pad	SY	\$ 82.00		\$ -		\$ -		\$ -	411	\$ 33,702.00	411	\$ 33,702.00
502.01	6-Foot x 5-Foot Reinforced Concrete Box	LF	\$ 535.00	961	\$ 514,135.00		\$ -		\$ -		\$ -	961	\$ 514,135.00
502.02	9-Foot x 6-Foot Reinforced Concrete Box	LF	\$ 745.00	1,562	\$ 1,163,690.00		\$ -		\$ -		\$ -	1,562	\$ 1,163,690.00
502.03	6-Foot x 5-Foot to 9-Foot x 6-Foot Transition Structure	EA	\$ 45,500.00	1	\$ 45,500.00		\$ -		\$ -		\$ -	1	\$ 45,500.00
502.04	Concrete Flume	EA	\$ 38,400.00	1	\$ 38,400.00		\$ -		\$ -		\$ -	1	\$ 38,400.00
502.05	Precast RCP Plug (24-Inch)	EA	\$ 1,400.00		\$ -		\$ -		\$ -	6	\$ 8,400.00	6	\$ 8,400.00
502.06	9-Foot x 20-Foot Bubbler	EA	\$ 74,000.00	1	\$ 74,000.00		\$ -		\$ -		\$ -	1	\$ 74,000.00
603.01	18-Inch Reinforced Concrete Pipe (Class III)	LF	\$ 205.00	462	\$ 94,710.00		\$ -		\$ -		\$ -	462	\$ 94,710.00
603.02	24-Inch Reinforced Concrete Pipe (Class III)	LF	\$ 286.00	299	\$ 85,514.00		\$ -		\$ -	248	\$ 70,928.00	547	\$ 156,442.00
603.03	30-Inch Reinforced Concrete Pipe (Class III)	LF	\$ 335.00	235	\$ 78,725.00		\$ -		\$ -		\$ -	235	\$ 78,725.00
603.04	48-Inch Reinforced Concrete Pipe (Class III)	LF	\$ 322.00		\$ -		\$ -		\$ -	1,552	\$ 499,744.00	1,552	\$ 499,744.00
603.05	60-Inch Reinforced Concrete Pipe (Class III)	LF	\$ 425.00		\$ -		\$ -		\$ -	387	\$ 164,475.00	387	\$ 164,475.00
603.06	Precast End Section	EA	\$ 1,500.00	1	\$ 1,500.00		\$ -		\$ -		\$ -	1	\$ 1,500.00

**Tropical Parkway/Hollywood Boulevard, Nicco Way to I-15
Bid Funding Breakdown
May 2018**

Item No.	Descriptions	Unit	Unit Cost	CCRFCD		SID		CNLV		RTC		TOTAL	
				Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
605.01	18-Inch PVC Pipe (C905) Storm Drain Pipe	LF	\$ 200.00	46	\$ 9,200.00		\$ -		\$ -		\$ -	46	\$ 9,200.00
605.02	24-Inch PVC Pipe (C905) Storm Drain Pipe	LF	\$ 322.00	90	\$ 28,980.00		\$ -		\$ -	52	\$ 16,744.00	142	\$ 45,724.00
605.03	30-Inch PVC Pipe (C905) Storm Drain Pipe	LF	\$ 405.00	45	\$ 18,225.00		\$ -		\$ -		\$ -	45	\$ 18,225.00
609.01	RCB Access Manhole	EA	\$ 2,600.00	7	\$ 18,200.00		\$ -		\$ -		\$ -	7	\$ 18,200.00
609.02	Type III Storm Drain Manhole	EA	\$ 12,700.00	1	\$ 12,700.00		\$ -		\$ -	3	\$ 38,100.00	4	\$ 50,800.00
609.03	NDOT Type 4 Storm Drain Manhole	EA	\$ 15,400.00	2	\$ 30,800.00		\$ -		\$ -	5	\$ 77,000.00	7	\$ 107,800.00
609.04	Drop Inlet Type "DM" (L=5.0')	EA	\$ 9,400.00	1	\$ 9,400.00		\$ -		\$ -		\$ -	1	\$ 9,400.00
609.05	Drop Inlet Type "DM" (L=10.0')	EA	\$ 15,500.00	1	\$ 15,500.00		\$ -		\$ -		\$ -	1	\$ 15,500.00
609.06	Drop Inlet Type "DM" (L=15.0')	EA	\$ 16,750.00	1	\$ 16,750.00		\$ -		\$ -		\$ -	1	\$ 16,750.00
609.07	Drop Inlet Type "DM" (L=20.0')	EA	\$ 20,600.00	7	\$ 144,200.00		\$ -		\$ -	2	\$ 41,200.00	9	\$ 185,400.00
609.08	Vertically Adjust Storm Drain Manhole	EA	\$ 1,000.00		\$ -		\$ -		\$ -	12	\$ 12,000.00	12	\$ 12,000.00
613.01	Type A Curb	LF	\$ 8.00		\$ -		\$ -		\$ -	2,257	\$ 18,056.00	2,257	\$ 18,056.00
613.02	Type L Curb and Gutter	LF	\$ 11.00		\$ -		\$ -		\$ -	10,673	\$ 117,403.00	10,673	\$ 117,403.00
613.03	Concrete Median Island (4-Inch)	SY	\$ 40.00		\$ -		\$ -		\$ -	633	\$ 25,320.00	633	\$ 25,320.00
613.04	Concrete Cross Gutter	SY	\$ 93.00		\$ -		\$ -		\$ -	1,021	\$ 94,953.00	1,021	\$ 94,953.00
613.05	Concrete Sidewalk (4-Inch)	SF	\$ 6.25		\$ -		\$ -		\$ -	3,355	\$ 20,968.75	3,355	\$ 20,968.75
613.06	Detectable Warning Panels	SF	\$ 33.50		\$ -		\$ -		\$ -	320	\$ 10,720.00	320	\$ 10,720.00
613.07	Concrete Tack On Median (6-Inch)	SY	\$ 75.50		\$ -		\$ -		\$ -	38	\$ 2,869.00	38	\$ 2,869.00
616.01	72-Inch Chain Link Fence	LF	\$ 18.00		\$ -		\$ -		\$ -	1,848	\$ 33,264.00	1,848	\$ 33,264.00
616.02	16-Foot Double Swing Gate	EA	\$ 1,400.00		\$ -		\$ -		\$ -	3	\$ 4,200.00	3	\$ 4,200.00
619.01	Marker Posts (K-71)	EA	\$ 215.00		\$ -		\$ -		\$ -	6	\$ 1,290.00	6	\$ 1,290.00
623.01	No. 7 Pull Box	EA	\$ 1,200.00		\$ -		\$ -		\$ -	11	\$ 13,200.00	11	\$ 13,200.00
623.02	P30 Pull Box	EA	\$ 900.00		\$ -		\$ -		\$ -	25	\$ 22,500.00	25	\$ 22,500.00
623.03	No. 3-1/2 Pull Box	EA	\$ 385.00		\$ -		\$ -		\$ -	14	\$ 5,390.00	14	\$ 5,390.00
623.04	3-Inch Conduit	LF	\$ 10.00		\$ -		\$ -		\$ -	1,770	\$ 17,700.00	1,770	\$ 17,700.00
623.05	2-Inch Conduit	LF	\$ 9.00		\$ -		\$ -		\$ -	2,530	\$ 22,770.00	2,530	\$ 22,770.00
623.06	4-Inch Conduit	LF	\$ 10.00		\$ -		\$ -		\$ -	8,810	\$ 88,100.00	8,810	\$ 88,100.00
623.07	Modifications for 1-B Pole at Tropical Pkwy and Mt Hood St	LS	\$ 4,000.00		\$ -		\$ -		\$ -	1	\$ 4,000.00	1	\$ 4,000.00
627.01	Remove and Salvage Traffic Signs (Ground Mounted)	EA	\$ 40.00		\$ -		\$ -		\$ -	30	\$ 1,200.00	30	\$ 1,200.00
627.02	Remove and Salvage Traffic Signs (Panel Only)	EA	\$ 40.00		\$ -		\$ -		\$ -	15	\$ 600.00	15	\$ 600.00
627.03	Permanent Signs (Ground Mounted) (Metal Posts)	EA	\$ 195.00		\$ -		\$ -		\$ -	112	\$ 21,840.00	112	\$ 21,840.00
627.04	Permanent Signs (Panel Only)	EA	\$ 195.00		\$ -		\$ -		\$ -	15	\$ 2,925.00	15	\$ 2,925.00
627.05	Remove and Salvage Type III Barricade	EA	\$ 40.00		\$ -		\$ -		\$ -	5	\$ 200.00	5	\$ 200.00
627.06	Type III Barricade	EA	\$ 430.00		\$ -		\$ -		\$ -	45	\$ 19,350.00	45	\$ 19,350.00
628.01	Pavement Markings (Type 2) (Arrow Legend)	EA	\$ 125.00		\$ -		\$ -		\$ -	42	\$ 5,250.00	42	\$ 5,250.00
628.02	Pavement Markings (Type 2) ("ONLY" Legend)	EA	\$ 180.00		\$ -		\$ -		\$ -	5	\$ 900.00	5	\$ 900.00
628.03	Pavement Markings (Type 2) ("BUSES" Legend)	EA	\$ 240.00		\$ -		\$ -		\$ -	2	\$ 480.00	2	\$ 480.00
628.04	Pavement Markings (Type 2) (Crosswalks and Stop Bars)	SF	\$ 8.00		\$ -		\$ -		\$ -	1,576	\$ 12,608.00	1,576	\$ 12,608.00
628.05	Pavement Markings (Type 2) (Varies)	SF	\$ 8.00		\$ -		\$ -		\$ -	1,960	\$ 15,680.00	1,960	\$ 15,680.00
628.06	Pavement Markings (Polyurea) (6-Inch Solid White Line)	LF	\$ 1.00		\$ -		\$ -		\$ -	12,770	\$ 12,770.00	12,770	\$ 12,770.00

**Tropical Parkway/Hollywood Boulevard, Nicco Way to I-15
Bid Funding Breakdown
May 2018**

Item No.	Descriptions	Unit	Unit Cost	CCRFC		SID		CNLV		RTC		TOTAL	
				Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
628.07	Pavement Markings (Polyurea) (8-Inch Solid White Line)	LF	\$ 2.00		\$ -		\$ -		\$ -	550	\$ 1,100.00	550	\$ 1,100.00
628.08	Pavement Markings (Polyurea) (8-Inch White Drop Line)	LF	\$ 1.00		\$ -		\$ -		\$ -	1,207	\$ 1,207.00	1,207	\$ 1,207.00
628.09	Reflective Paint, Islands and Curb	SF	\$ 1.50		\$ -		\$ -		\$ -	144	\$ 216.00	144	\$ 216.00
629.01	Vertically Adjust Water Valve Box	EA	\$ 800.00		\$ -		\$ -		\$ -	50	\$ 40,000.00	50	\$ 40,000.00
629.02	Vertically Adjust Water Manhole	EA	\$ 1,200.00		\$ -		\$ -		\$ -	2	\$ 2,400.00	2	\$ 2,400.00
629.03	6-Inch PVC (C900) Waterline	LF	\$ 150.00		\$ -	139	\$ 20,850.00		\$ -		\$ -	139	\$ 20,850.00
629.04	8-Inch PVC (C900) Waterline	LF	\$ 150.00		\$ -	308	\$ 46,200.00		\$ -		\$ -	308	\$ 46,200.00
629.05	12-Inch PVC (C900) Waterline	LF	\$ 128.00		\$ -	2,616	\$ 334,848.00		\$ -		\$ -	2,616	\$ 334,848.00
629.06	1-Inch Air Vacuum Relief Valve (AVAR)	EA	\$ 7,000.00		\$ -	1	\$ 7,000.00		\$ -		\$ -	1	\$ 7,000.00
629.07	Remove and Relocate Existing Pressure Reducing Valve	EA	\$ 47,000.00		\$ -		\$ -		\$ -	1	\$ 47,000.00	1	\$ 47,000.00
629.08	16-inch Steel Casing	LF	\$ 165.00		\$ -	31	\$ 5,115.00		\$ -		\$ -	31	\$ 5,115.00
629.09	18-inch Steel Casing	LF	\$ 190.00		\$ -	31	\$ 5,890.00		\$ -		\$ -	31	\$ 5,890.00
629.10	24-inch Steel Casing	LF	\$ 285.00	0	\$ -	31	\$ 8,835.00	77	\$ 21,945.00		\$ -	108	\$ 30,780.00
629.11	24-inch Steel Split Casing	LF	\$ 500.00	53	\$ 26,500.00		\$ -		\$ -		\$ -	53	\$ 26,500.00
629.12	30-inch Steel Split Casing	LF	\$ 680.00	22	\$ 14,960.00		\$ -		\$ -		\$ -	22	\$ 14,960.00
629.13	2-inch Blowoff Valve	EA	\$ 2,250.00		\$ -	7	\$ 15,750.00		\$ -		\$ -	7	\$ 15,750.00
630.01	Vertically Adjust Sewer Manhole	EA	\$ 1,000.00		\$ -		\$ -		\$ -	26	\$ 26,000.00	26	\$ 26,000.00
630.02	8-Inch PVC (SDR 35) Sanitary Sewer Line	LF	\$ 115.00		\$ -	1,177	\$ 135,355.00	50	\$ 5,750.00		\$ -	1,227	\$ 141,105.00
630.03	10-Inch PVC (SDR 35) Sanitary Sewer Line	LF	\$ 135.00		\$ -		\$ -	1050	\$ 141,750.00		\$ -	1,050	\$ 141,750.00
630.04	12-Inch PVC (SDR 35) Sanitary Sewer Line	LF	\$ 150.00		\$ -		\$ -	2969	\$ 445,350.00		\$ -	2,969	\$ 445,350.00
630.05	48-Inch Sanitary Sewer Manhole	EA	\$ 13,200.00		\$ -	3	\$ 39,600.00	12	\$ 158,400.00		\$ -	15	\$ 198,000.00
630.06	72-Inch Sanitary Sewer Manhole	EA	\$ 16,500.00		\$ -	1	\$ 16,500.00		\$ -		\$ -	1	\$ 16,500.00
630.07	20-inch Steel Casing	LF	\$ 200.00		\$ -		\$ -	28	\$ 5,600.00		\$ -	28	\$ 5,600.00
630.08	10-Inch PVC (C900) Sanitary Sewer Line	LF	\$ 155.00		\$ -		\$ -	245	\$ 37,975.00		\$ -	245	\$ 37,975.00
633.01	Non-reflective Pavement Markers	EA	\$ 2.65		\$ -		\$ -		\$ -	6,550	\$ 17,357.50	6,550	\$ 17,357.50
633.02	Reflective Pavement Markers	EA	\$ 2.65		\$ -		\$ -		\$ -	2,500	\$ 6,625.00	2,500	\$ 6,625.00
637.01	Dust Control	LS	\$ 67,000.25		\$ -		\$ -		\$ -	1.0	\$ 67,000.25	1	\$ 67,000.25
637.02	Temporary Pollution Control	LS	\$ 7,700.00		\$ -		\$ -		\$ -	1.0	\$ 7,700.00	1	\$ 7,700.00
637.03	NPDES Discharge Permit	LS	\$ 250.00		\$ -		\$ -		\$ -	1.0	\$ 250.00	1	\$ 250.00
645.01	Non-City Owned Utility Coordination	LS	\$ 1,000.00		\$ -		\$ -		\$ -	1	\$ 1,000.00	1	\$ 1,000.00
670.01	Install NV Energy Duct Bank With 2-6" PVC Conduit	LF	\$ 40.00		\$ -		\$ -		\$ -	840	\$ 33,600.00	840	\$ 33,600.00
670.02	Remove and Relocate Existing Electric Manhole	EA	\$ 9,600.00		\$ -		\$ -		\$ -	1	\$ 9,600.00	1	\$ 9,600.00
670.03	Vertically Adjust Existing Electric Pull Box (RS-82)	EA	\$ 1,765.00		\$ -		\$ -		\$ -	1	\$ 1,765.00	1	\$ 1,765.00
670.04	Vertically Adjust Existing Electric Manhole (RS-94)	EA	\$ 1,200.00		\$ -		\$ -		\$ -	5	\$ 6,000.00	5	\$ 6,000.00
	Total Cost				\$ 2,460,483.00		\$ 807,018.20		\$ 999,807.60		\$ 5,521,781.20		\$ 9,789,090.00



**Exhibit A
Project Map**

Legend

- NLV03118 Range Wash - Ann Branch, Phase I
- - -** Future MPU Facilities



Louis Berger

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

**HOLLYWOOD SYSTEM, DUNES SOUTH DETENTION BASIN TO CENTENNIAL
PARKWAY – PHASE I
FIRST SUPPLEMENTAL INTERLOCAL CONTRACT – NLV03H17**

RECOMMENDATION SUMMARY

STAFF: Approve subject to approval of the Ten-Year Construction Program amendment item on this agenda.

TECHNICAL ADVISORY: Approve subject to approval of the Ten-Year Construction Program amendment item on this agenda.

CITIZENS ADVISORY: Approve subject to approval of the Ten-Year Construction Program amendment item on this agenda.

**RFCD AGENDA
ITEM #15a
DATE: 11/08/18**

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM**

SUBJECT: HOLLYWOOD SYSTEM, DUNES SOUTH DETENTION BASIN TO CENTENNIAL PARKWAY – PHASE I
PETITIONER: DALE DAFFERN, P.E., DIRECTOR OF PUBLIC WORKS CITY OF NORTH LAS VEGAS
RECOMMENDATION OF PETITIONER: THAT THE REGIONAL FLOOD CONTROL DISTRICT APPROVE THE FIRST SUPPLEMENTAL INTERLOCAL CONTRACT FOR CONSTRUCTION AND CONSTRUCTION ENGINEERING TO DECREASE FUNDING FOR HOLLYWOOD SYSTEM, DUNES SOUTH DETENTION BASIN TO CENTENNIAL PARKWAY – PHASE I – NLV03H17 (FOR POSSIBLE ACTION)

FISCAL IMPACT:


	Current Funding	Fiscal Impact	Proposed Funding
Construction	\$13,650,000	(\$1,360,000)	\$ 12,290,000
Construction Engineering	\$ 819,000	\$ 0	\$ 819,000
Total ILC Value	\$14,469,000	(\$1,360,000)	\$ 13,109,000

BACKGROUND:

The District entered into an Interlocal Contract with the City of North Las Vegas on November 9, 2017 to provide funding for construction and construction engineering for the subject project.

This First Supplemental Interlocal Contract will decrease construction funds due to favorable bids.

Respectfully submitted,



 Dale Daffern, P.E.
 Director of Public Works
 City of North Las Vegas

TAC AGENDA ITEM #15a Date: 10/25/18	RFCD AGENDA ITEM # 15a Date: 11/08/18
CAC AGENDA ITEM #15a Date: 10/29/18	

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:

Date: 10/15/18

HOLLYWOOD SYSTEM, DUNES SOUTH DETENTION BASIN TO CENTENNIAL PARKWAY – PHASE I
FIRST SUPPLEMENTAL INTERLOCAL CONTRACT – NLV03H17

The City of North Las Vegas has submitted a request to approve a first supplemental interlocal contract for construction and construction engineering to decrease funding in the amount of \$1,360,000 for the Hollywood System, Dunes South Detention Basin to Centennial Parkway – Phase I project.

The decrease is due to favorable bids. District funding will be as follows:

	Current Funding	Increase/Decrease	Proposed Funding
Construction	\$13,650,000	(\$1,360,000)	\$12,290,000
Construction Engineering	\$ 819,000	\$ 0	\$ 819,000
Total ILC Value	\$14,469,000	(\$1,360,000)	\$13,109,000

The District Attorney has reviewed the contract.

Staff Recommendation:

Approve subject to approval of the Ten-Year Construction Program Amendment item on this agenda.

Discussion by Technical Advisory Committee:

AGENDA
#15a Date: 10/25/18

Recommendation:

Approve subject to approval of the Ten-Year Construction Program Amendment item on this agenda.

Discussion by Citizens Advisory Committee:

AGENDA
#15a Date: 10/29/18

Recommendation:

Approve subject to approval of the Ten-Year Construction Program Amendment item on this agenda.

**FIRST SUPPLEMENTAL INTERLOCAL CONTRACT
HOLLYWOOD SYSTEM, DUNES SOUTH DETENTION BASIN TO CENTENNIAL
PARKWAY - PHASE I**

THIS FIRST SUPPLEMENTAL INTERLOCAL CONTRACT made and entered into as of the _____ day of _____, 2018, by and between the Clark County Regional Flood Control District, hereinafter referred to as "DISTRICT", and the City of North Las Vegas, hereinafter referred to as "CITY".

WITNESSETH

WHEREAS, pursuant to Chapter 543 of the Nevada Revised Statutes, the DISTRICT may approve a project to design and construct flood control improvements, and;

WHEREAS, the flood control improvements proposed herein are the same as those generally identified in the 2013 Flood Control Master Plan Update, to include Structure No. RWHW 0174, 0201, and 0277, hereinafter referred to as "Project"; and

WHEREAS, the Project is identified and shown on the attached Exhibit "A"; and

WHEREAS, the Project has been approved by the DISTRICT on its Ten Year Construction Program; and

WHEREAS, the Project has regional flood control significance and is located in the same hydrographic area as the Las Vegas Valley.

WHEREAS, an Interlocal Contract dated November 9, 2017 was entered into between the DISTRICT and the CITY; and

WHEREAS, the City wishes to decrease construction funding for the project.

NOW, THEREFORE, in consideration of the covenants, conditions, contracts, and promises of the parties hereto, the DISTRICT and the CITY agree to the following:

SECTION II - PROJECT COSTS

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

1. Construction in an amount not to exceed \$12,290,000.
2. Construction Management in an amount not to exceed \$819,000.
3. The total cost of this Interlocal Contract shall not exceed \$13,109,000, which includes all the items described in paragraphs above.

4. If at any time during the term of this Contract the entity determines that a portion of the funds provided pursuant to this Contract will not be needed for the Project, then the entity will notify the District in writing of the amount of funds that are not anticipated to be used for the Project. Upon receipt of said notification the District's obligation to pay the maximum amount set forth herein will automatically be reduced by the amount specified in the notification.

5. A written request must be made to the DISTRICT and approved by the Board to reallocate funds between phases of the Project. No other approval by the Lead Entity is required.

6. A written request must be made to the DISTRICT and a supplemental interlocal contract approved by the Board to increase the total cost of the contract noted above prior to payment of any additional funds.

The remainder of the original interlocal contract dated November 9, 2017 shall remain unchanged.

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IN WITNESS WHEREOF, this First Supplemental Interlocal contract is hereby executed as of the date first set forth above.

Date of District Action: REGIONAL FLOOD CONTROL DISTRICT

BY: _____
LAWRENCE L. BROWN, III
Chairman

ATTEST:

SHERRY ALLEN
Secretary to the Board

Approved as to Form:

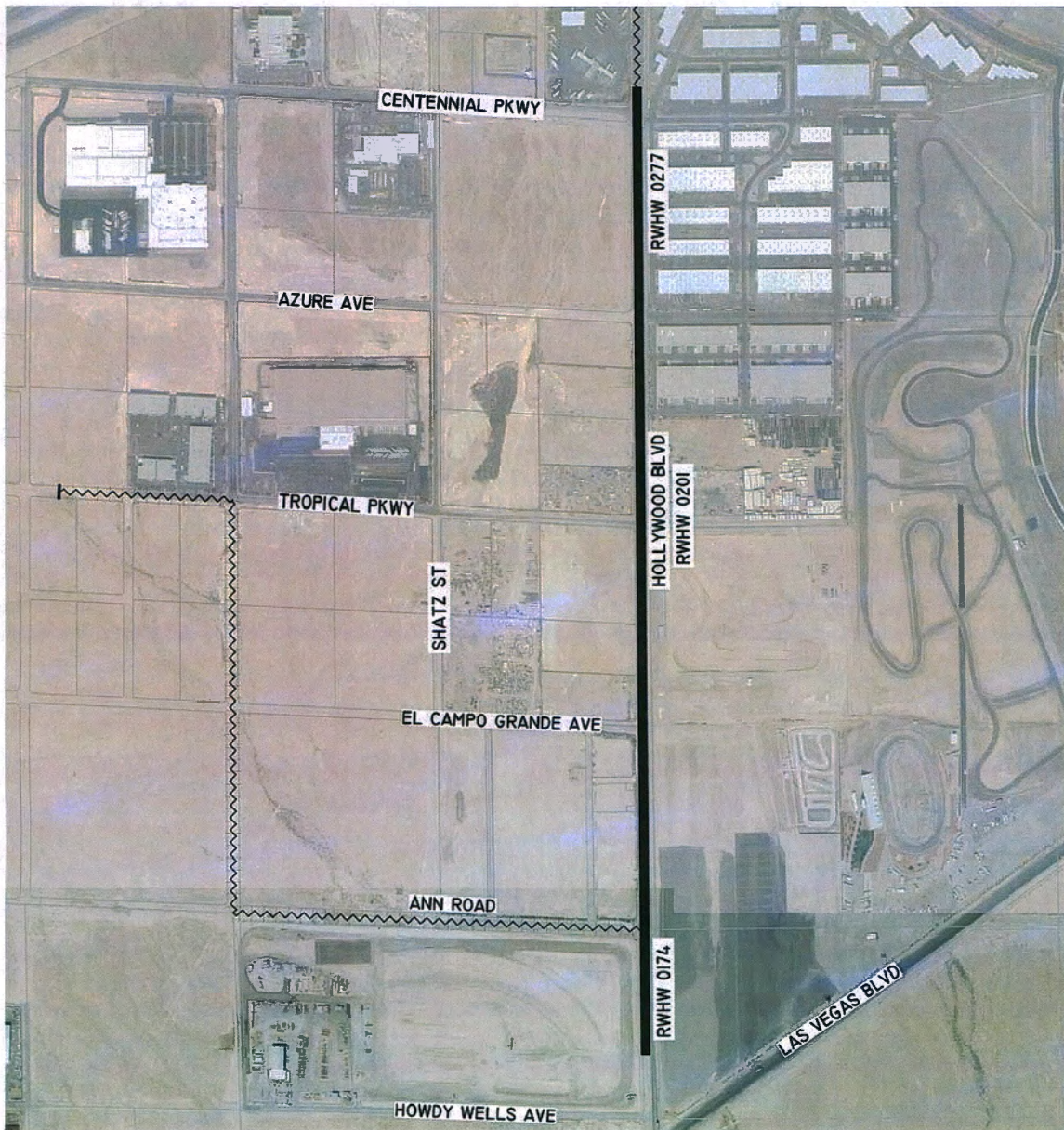
BY: _____
CHRISTOPHER FIGGINS
Chief Deputy District Attorney

Date of Council Action: CITY OF NORTH LAS VEGAS

BY: _____
JOHN J. LEE
Mayor

ATTEST:

CATHERINE A. RAYNOR, MMC
City Clerk



LEGEND




-  PROPOSED FACILITY
-  EXISTING FACILITY
-  FUTURE FACILITY

EXHIBIT 'A'



**DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND CONSTRUCTION SERVICES DIVISION**

**HOLLYWOOD SYSTEM
DUNES SOUTH DETENTION BASIN TO CENTENNIAL PARKWAY PHASE I
NLV03H17**

SCALE:	N.T.S.
DRAWING NAME:	10375-VIC.dwg
DRAWN BY:	T. Cochran
DATE:	October 10, 2018
SHEET NUMBER	1 OF 1

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

HOLLYWOOD SYSTEM, DUNES SOUTH DETENTION BASIN TO CENTENNIAL
PARKWAY – PHASE I
AWARD OF BID FOR CONSTRUCTION – NLV03H17

RECOMMENDATION SUMMARY

STAFF: Receive the report.

TECHNICAL ADVISORY: Receive the report.

CITIZENS ADVISORY: Receive the report.

**RFCD AGENDA
ITEM #15b
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM

SUBJECT: HOLLYWOOD SYSTEM, DUNES SOUTH DETENTION BASIN TO CENTENNIAL PARKWAY - PHASE I
PETITIONER: DALE DAFFERN, P.E., DIRECTOR OF PUBLIC WORKS CITY OF NORTH LAS VEGAS
RECOMMENDATION OF PETITIONER: THAT THE CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT RECEIVE A REPORT ON THE RECOMMENDATION FOR BEST BID FOR CONSTRUCTION OF HOLLYWOOD SYSTEM, DUNES SOUTH DETENTION BASIN TO CENTENNIAL PARKWAY - PHASE I – NLV03H17

FISCAL IMPACT: None by this action. Funding will be provided as follows:


\$11,164,234.00 - Funded by Regional Flood Control District

BACKGROUND:

On May 9, 2018 bids were opened for the project. Seven bids were received ranging in cost from \$11,164,234.00 to \$14,759,940.05. The recommended best bid was awarded to TAB Contractors in the amount of \$11,164,234.00 or 9.9% lower than the engineer's estimate of \$12,397,490.00, presented to the District Board on November 9, 2017. The Interlocal Contract dated November 9, 2017 between the District and City of North Las Vegas, allocates \$13,650,000.00 for the construction of this project. There is an item on this agenda for approval to decrease construction funding to \$12,290,000.00.

A cash flow projection, estimated construction schedule, and a tabulation of bids are attached.

Respectfully submitted,


Dale Daffern, P.E.
Director of Public Works
City of North Las Vegas

TAC AGENDA ITEM # 15b Date: 10/25/18	RFCD AGENDA ITEM # 15b Date: 11/08/18
CAC AGENDA ITEM # 15b Date: 10/29/18	

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:

Date: 10/15/18

HOLLYWOOD SYSTEM, DUNES SOUTH DETENTION BASIN TO CENTENNIAL PARKWAY – PHASE I
AWARD OF BID FOR CONSTRUCTION – NLV03H17

On May 9, 2018, bids were opened for the Hollywood System, Dunes South Detention Basin to Centennial Parkway – Phase I project. Seven (7) bids were received ranging in cost from \$11,164,234.00 to \$14,759,940.05. The recommended best bid was to TAB Contractors in the amount of \$11,164,234.00 or 9.9% lower than the engineer's estimate of \$12,397,490.00 presented to the District Board on November 9, 2017.

The Interlocal Contract dated November 9, 2017 between the District and the City allocates \$13,650,000.00 for construction of this project. There is an item on this agenda for approval to decrease construction funding to \$12,290,000.00.

A cash flow projection, estimated construction schedule, and a tabulation of base bid are attached.

Staff Recommendation:

Receive the report.

Discussion by Technical Advisory Committee:

AGENDA
#15b Date: 10/25/18

Recommendation:

Receive the report.

Discussion by Citizens Advisory Committee:

AGENDA
#15b Date: 10/29/18

Recommendation:

Receive the report.

Clark County Regional Flood Control District Cash Flow Projection

Today's Date: October 15, 2018

Project Number: NLV03H17

Project Name: Hollywood System, Dunes South Detention Basin to Centennial Parkway - Phase I

Project Type: Storm Drain

ILC Amount: \$ 14,469,000 \$ 13,109,000

Construction Schedule			
Milestone	Estimate	Revised	Actual
Award of Bid	March-18	June-18	
CONS Start	May-18	September-18	
CONS Complete	August-19	November-19	
Project Duration	15 months	15 months	

Billing Month	CCRFCD Original Estimate		Actual Drawdowns		CCRFCD Revised Estimate	
	\$	%	\$	%	\$	%
Jun-18	723,450	5%				
Jul-18	723,450	5%				
Aug-18	1,446,900	10%				
Sep-18	1,302,210	9%			655,450	5%
Oct-18	1,302,210	9%			655,450	5%
Nov-18	1,157,520	8%			1,310,900	10%
Dec-18	1,157,520	8%			1,179,810	9%
Jan-19	1,157,520	8%			1,179,810	9%
Feb-19	1,157,520	8%			1,048,720	8%
Mar-19	1,012,830	7%			1,048,720	8%
Apr-19	1,012,830	7%			1,048,720	8%
May-19	868,140	6%			1,048,720	8%
Jun-19	723,450	5%			917,630	7%
Jul-19	434,070	3%			917,630	7%
Aug-19	289,380	2%			786,540	6%
Sep-19					655,450	5%
Oct-19					393,270	3%
Nov-19					262,180	2%
Total	\$ 14,469,000	100%			\$ 13,109,000	100%

BID ABSTRACT
CITY OF NORTH LAS VEGAS
HOLLYWOOD SYSTEM DUNES SOUTH DET. BASIN TO CENTENNIAL PKWY, PH. I
CIP PROJECT NO. 10375
BID NO. 1517 - LABOR COMMISSION NO. PWP CL-2017-218
BID DATE: MAY 9, 2018

ITEM	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE		TAB CONTRACTORS		LAS VEGAS PAVING		MOUNTAIN CASCADE OF NEVADA		CONTRI CONSTRUCTION	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
104.01	Traffic Control	1	LS	\$235,000.00	\$235,000.00	\$160,000.00	\$160,000.00	\$150,000.00	\$150,000.00	\$100,000.00	\$100,000.00	\$99,401.00	\$99,401.00
105.01	Construction Staking	1	LS	\$100,000.00	\$100,000.00	\$58,000.00	\$58,000.00	\$60,000.00	\$60,000.00	\$35,000.00	\$35,000.00	\$39,989.00	\$39,989.00
109.01	Construction Conflicts and Additional Work	1	LS	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00
200.01	Mobilization and Demobilization	1	LS	\$600,000.00	\$600,000.00	\$650,000.00	\$650,000.00	\$300,000.00	\$300,000.00	\$300,000.00	\$300,000.00	\$600,000.00	\$600,000.00
201.01	Clearing and Grubbing	1	Hour	\$100,000.00	\$100,000.00	\$15,000.00	\$15,000.00	\$13,000.00	\$13,000.00	\$10,000.00	\$10,000.00	\$15,089.00	\$15,089.00
202.01	Remove 6-Inch PVC	332	LS	\$15.00	\$4,980.00	\$12.00	\$3,984.00	\$5.00	\$1,660.00	\$50.00	\$16,600.00	\$1.00	\$332.00
202.02	Remove 12-Inch PVC	1,019	LS	\$20.00	\$20,380.00	\$12.00	\$12,228.00	\$5.00	\$5,095.00	\$18.00	\$18,342.00	\$1.00	\$1,019.00
202.03	Remove 18-Inch RCP	10	SY	\$35.00	\$350.00	\$55.00	\$550.00	\$25.00	\$250.00	\$64.00	\$640.00	\$5.00	\$50.00
202.04	Remove 24-Inch RCP	54	LF	\$35.00	\$1,890.00	\$25.00	\$1,350.00	\$25.00	\$1,350.00	\$65.00	\$3,510.00	\$16.00	\$864.00
202.05	Remove 36-Inch RCP	86	EA	\$45.00	\$3,870.00	\$22.00	\$1,892.00	\$90.00	\$7,740.00	\$115.00	\$9,890.00	\$85.00	\$7,310.00
202.06	Remove 42-Inch RCP	3	LF	\$55.00	\$165.00	\$260.00	\$780.00	\$63.00	\$189.00	\$120.00	\$360.00	\$9.00	\$27.00
202.07	Remove 48-Inch RCP	1,019	EA	\$60.00	\$61,140.00	\$19.00	\$19,361.00	\$53.00	\$64,197.00	\$40.00	\$40,760.00	\$17.00	\$17,323.00
202.08	Remove 60-Inch X 38-Inch HERCP	367	EA	\$130.00	\$47,710.00	\$17.00	\$6,239.00	\$55.00	\$20,185.00	\$50.00	\$18,350.00	\$10.00	\$3,670.00
202.09	Remove 78-Inch X 48-Inch HERCP	54	CY	\$200.00	\$10,800.00	\$65.00	\$3,510.00	\$176.00	\$9,504.00	\$180.00	\$9,720.00	\$114.00	\$6,156.00
202.10	Remove 83-Inch X 53-Inch HERCP	109	CY	\$220.00	\$23,980.00	\$75.00	\$8,175.00	\$176.00	\$19,190.00	\$190.00	\$20,710.00	\$14.00	\$1,526.00
202.11	Remove Storm Drain Manhole	8	CY	\$1,400.00	\$11,200.00	\$2,700.00	\$21,600.00	\$2,000.00	\$16,000.00	\$3,600.00	\$28,800.00	\$790.00	\$6,320.00
202.12	Remove Sewer Manhole	3	CY	\$4,000.00	\$12,000.00	\$2,700.00	\$8,100.00	\$2,000.00	\$6,000.00	\$3,600.00	\$10,800.00	\$2,950.00	\$8,850.00
202.13	Remove Sewer Line	605	LF	\$50.00	\$30,250.00	\$52.00	\$31,460.00	\$80.00	\$48,400.00	\$75.00	\$45,375.00	\$35.00	\$21,175.00
202.14	Remove Water Line	248	SY	\$30.00	\$7,440.00	\$65.00	\$16,120.00	\$40.00	\$9,920.00	\$85.00	\$21,080.00	\$46.00	\$11,408.00
202.15	Remove Concrete Structure	1	LF	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$15,000.00	\$15,000.00	\$5,000.00	\$5,000.00	\$2,873.00	\$2,873.00
202.16	Remove 12-Foot X 5-Foot Reinforced Concrete Box	115	EA	\$250.00	\$28,750.00	\$145.00	\$16,675.00	\$365.00	\$41,975.00	\$100.00	\$11,500.00	\$189.00	\$21,735.00
202.17	Remove Concrete Cross Gutter	36	EA	\$45.00	\$1,620.00	\$50.00	\$1,800.00	\$75.00	\$2,700.00	\$85.00	\$3,060.00	\$59.00	\$2,124.00
202.18	Remove and Reset Portable Precast Concrete Barrier Rail	6	EA	\$200.00	\$1,200.00	\$100.00	\$600.00	\$120.00	\$720.00	\$120.00	\$720.00	\$56.00	\$336.00
203.01	Roadway Excavation	4,560	EA	\$12.00	\$54,720.00	\$23.00	\$104,880.00	\$26.00	\$118,560.00	\$27.00	\$123,120.00	\$29.00	\$132,240.00
216.01	Cold Planing	3,150	SF	\$20.00	\$63,000.00	\$3.50	\$11,025.00	\$6.00	\$18,900.00	\$5.00	\$15,750.00	\$6.00	\$18,900.00
302.01	Type II Aggregate Base	2,650	LF	\$40.00	\$106,000.00	\$23.00	\$60,950.00	\$43.00	\$113,950.00	\$40.00	\$106,000.00	\$45.00	\$119,250.00
402.01	Plantmix Bituminous Surface	4,230	LF	\$90.00	\$380,700.00	\$90.00	\$380,700.00	\$80.00	\$338,400.00	\$88.00	\$372,240.00	\$103.00	\$435,690.00
502.01	6-Foot X 6-Foot Precast Concrete Box	1,510	LF	\$700.00	\$1,057,000.00	\$650.00	\$981,500.00	\$670.00	\$1,011,700.00	\$700.00	\$1,057,000.00	\$648.00	\$976,480.00
502.02	10-Foot X 6-Foot Reinforced Concrete Box	2,635	LF	\$900.00	\$2,371,500.00	\$785.00	\$2,068,475.00	\$835.00	\$2,200,225.00	\$980.00	\$2,582,300.00	\$939.00	\$2,474,265.00
502.03	12-Foot X 6-Foot Reinforced Concrete Box	2,863	LF	\$1,300.00	\$3,721,900.00	\$1,025.00	\$2,934,575.00	\$1,043.00	\$2,986,109.00	\$1,140.00	\$3,263,820.00	\$1,197.00	\$3,427,011.00
502.04	Double (2) - 12-Foot X 6-Foot Reinforced Concrete Box	839	EA	\$2,200.00	\$1,845,800.00	\$2,050.00	\$1,719,950.00	\$2,028.00	\$1,701,492.00	\$2,200.00	\$1,845,800.00	\$2,024.00	\$1,698,136.00
502.05	12-Foot X 6-Foot To 10-Foot X 6-Foot CIP Transition	1	LF	\$13,500.00	\$13,500.00	\$18,000.00	\$18,000.00	\$18,000.00	\$18,000.00	\$24,000.00	\$24,000.00	\$38,587.00	\$38,587.00
502.06	10-Foot X 6-Foot To 12-Foot X 4-Foot CIP	1	LF	\$25,000.00	\$25,000.00	\$18,000.00	\$18,000.00	\$21,000.00	\$21,000.00	\$24,500.00	\$24,500.00	\$24,534.00	\$24,534.00
502.07	Ann Road Confluence Structure	1	LF	\$55,000.00	\$55,000.00	\$28,000.00	\$28,000.00	\$53,000.00	\$53,000.00	\$80,000.00	\$80,000.00	\$48,415.00	\$48,415.00
502.08	Azure Avenue Confluence Structure	1	EA	\$70,000.00	\$70,000.00	\$115,000.00	\$115,000.00	\$112,000.00	\$112,000.00	\$105,000.00	\$105,000.00	\$139,764.00	\$139,764.00
502.09	El Campo Grande Confluence Structure	1	EA	\$60,000.00	\$60,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$95,000.00	\$95,000.00	\$119,015.00	\$119,015.00
502.10	Flow Equalizer	4	EA	\$18,000.00	\$72,000.00	\$5,000.00	\$20,000.00	\$5,000.00	\$20,000.00	\$5,000.00	\$20,000.00	\$8,525.00	\$34,100.00
502.11	RCP Plug (18-inch)	1	EA	\$50.00	\$50.00	\$1,000.00	\$1,000.00	\$850.00	\$850.00	\$1,300.00	\$1,300.00	\$213.00	\$213.00
502.12	RCP Plug (24-inch)	4	EA	\$80.00	\$320.00	\$1,400.00	\$5,600.00	\$950.00	\$3,800.00	\$1,500.00	\$6,000.00	\$219.00	\$876.00
502.13	RCP Plug (48-inch)	1	EA	\$300.00	\$300.00	\$3,300.00	\$3,300.00	\$1,650.00	\$1,650.00	\$3,500.00	\$3,500.00	\$438.00	\$438.00
502.14	RCP Plug (60-inch)	1	EA	\$500.00	\$500.00	\$4,500.00	\$4,500.00	\$2,600.00	\$2,600.00	\$3,600.00	\$3,600.00	\$669.00	\$669.00
502.15	Precast RCB Plug	5	EA	\$2,500.00	\$12,500.00	\$9,000.00	\$45,000.00	\$3,800.00	\$19,000.00	\$3,300.00	\$16,500.00	\$4,976.00	\$24,880.00
502.16	12-Foot X 20-Foot Bubbler	1	LF	\$35,000.00	\$35,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$115,000.00	\$115,000.00	\$95,061.00	\$95,061.00
603.01	18-Inch Reinforced Concrete Pipe (Class III)	61	LF	\$125.00	\$7,625.00	\$177.00	\$10,797.00	\$370.00	\$22,570.00	\$400.00	\$24,400.00	\$356.00	\$21,716.00
603.02	24-Inch Reinforced Concrete Pipe (Class III)	284	SY	\$175.00	\$49,700.00	\$190.00	\$53,960.00	\$300.00	\$85,200.00	\$290.00	\$82,360.00	\$329.00	\$93,436.00
603.03	30-Inch Reinforced Concrete Pipe (Class III)	182	SY	\$215.00	\$39,130.00	\$205.00	\$37,310.00	\$430.00	\$78,260.00	\$330.00	\$60,060.00	\$411.00	\$74,802.00
603.04	36-Inch Reinforced Concrete Pipe (Class III)	25	SF	\$225.00	\$5,625.00	\$200.00	\$5,000.00	\$630.00	\$15,750.00	\$280.00	\$7,000.00	\$599.00	\$14,975.00
603.05	48-Inch Reinforced Concrete Pipe (Class III)	143	EA	\$290.00	\$41,470.00	\$295.00	\$42,185.00	\$475.00	\$67,925.00	\$570.00	\$81,510.00	\$408.00	\$58,058.00
603.06	60-Inch Reinforced Concrete Pipe (Class III)	41	EA	\$350.00	\$14,350.00	\$390.00	\$15,990.00	\$500.00	\$20,500.00	\$440.00	\$18,040.00	\$487.00	\$19,967.00
605.01	18-Inch PVC (C905) Storm Drain Pipe	39	LF	\$190.00	\$7,410.00	\$145.00	\$5,655.00	\$300.00	\$11,700.00	\$300.00	\$11,700.00	\$305.00	\$11,895.00
605.02	24-Inch PVC (C905) Storm Drain Pipe	42	EA	\$220.00	\$9,240.00	\$185.00	\$7,770.00	\$400.00	\$16,800.00	\$340.00	\$14,280.00	\$385.00	\$16,170.00
605.03	30-Inch PVC (C905) Storm Drain Pipe	42	EA	\$250.00	\$10,500.00	\$205.00	\$8,610.00	\$450.00	\$18,900.00	\$390.00	\$16,380.00	\$448.00	\$18,858.00
609.01	RCB Manhole	24	EA	\$3,000.00	\$72,000.00	\$2,000.00	\$48,000.00	\$2,800.00	\$67,200.00	\$3,700.00	\$88,800.00	\$3,073.00	\$73,752.00
609.02	Type III Storm Drain Manhole (60-inch)	2	EA	\$8,000.00	\$16,000.00	\$8,900.00	\$17,800.00	\$11,500.00	\$23,000.00	\$6,000.00	\$12,000.00	\$14,400.00	\$28,800.00
609.03	NDOT Type 4 Storm Drain Manhole	2	EA	\$10,000.00	\$20,000.00	\$11,700.00	\$23,400.00	\$13,200.00	\$26,400.00	\$20,000.00	\$40,000.00	\$13,284.00	\$26,568.00
609.04	NDOT Type 2 Drop Inlet With Concrete Apron	2	LF	\$5,500.00	\$11,000.00	\$8,100.00	\$16,200.00	\$11,000.00	\$22,000.00	\$10,000.00	\$20,000.00	\$10,524.00	\$21,048.00
609.05	NDOT Type 2B Drop Inlet With Concrete Apron	1	LF	\$5,500.00	\$5,500.00	\$8,600.00	\$8,600.00	\$11,400.00	\$11,400.00	\$10,400.00	\$10,400.00	\$11,738.00	\$11,738.00
609.06	Drop Inlet Type "DM" (L=10-Feet)	2	LF	\$10,000.00	\$20,000.00	\$14,700.00	\$29,400.00	\$15,000.00	\$30,000.00	\$22,000.00	\$44,000.00	\$18,214.00	\$36,428.00
609.07	Drop Inlet Type "DM" (L=12.5-Feet)	1	LS	\$12,500.00	\$12,500.00	\$16,800.00	\$16,800.00	\$16,000.00	\$16,000.00	\$24,000.00	\$24,000.00	\$21,394.00	\$21,394.00

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ITEM	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE		TAB CONTRACTORS		LAS VEGAS PAVING		MOUNTAIN CASCADE OF NEVADA		CONTRI CONSTRUCTION	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
609.08	Drop Inlet Type "DM" (L=20-Feet)	6	EA	\$12,500.00	\$75,000.00	\$23,000.00	\$138,000.00	\$22,000.00	\$132,000.00	\$38,000.00	\$216,000.00	\$30,224.00	\$181,344.00
613.01	Reconstruct Cross Gutter	140	EA	\$130.00	\$18,200.00	\$88.00	\$12,320.00	\$145.00	\$20,300.00	\$90.00	\$12,600.00	\$139.00	\$19,460.00
613.02	Reconstruct Concrete Sidewalk	21	EA	\$54.00	\$1,134.00	\$49.00	\$1,029.00	\$105.00	\$2,205.00	\$130.00	\$2,730.00	\$158.00	\$3,318.00
613.03	Reconstruct Concrete Sidewalk Ramp	2	EA	\$1,000.00	\$2,000.00	\$900.00	\$1,800.00	\$1,650.00	\$3,300.00	\$2,300.00	\$4,600.00	\$1,376.00	\$2,752.00
613.04	Construct Concrete Curb and Gutter, Type 2	20	EA	\$22.00	\$440.00	\$22.00	\$440.00	\$35.00	\$700.00	\$60.00	\$1,200.00	\$80.00	\$1,600.00
613.05	Reconstruct Concrete Median	141	EA	\$120.00	\$16,920.00	\$95.00	\$13,395.00	\$125.00	\$17,625.00	\$90.00	\$12,690.00	\$156.00	\$21,996.00
623.01	No. 3.5 Pull Box	2	EA	\$350.00	\$700.00	\$970.00	\$1,940.00	\$540.00	\$1,080.00	\$1,040.00	\$2,080.00	\$607.00	\$1,214.00
623.02	No. 7 Pull Box	2	EA	\$900.00	\$1,800.00	\$1,290.00	\$2,580.00	\$1,450.00	\$2,900.00	\$1,400.00	\$2,800.00	\$1,633.00	\$3,266.00
623.03	P30 Pull Box	2	EA	\$1,000.00	\$2,000.00	\$1,450.00	\$2,900.00	\$1,250.00	\$2,500.00	\$1,500.00	\$3,000.00	\$1,415.00	\$2,830.00
623.04	2-Inch Conduit	750	EA	\$11.00	\$8,250.00	\$34.00	\$25,500.00	\$13.00	\$9,750.00	\$37.00	\$27,750.00	\$15.00	\$11,250.00
623.05	3-Inch Conduit	1,000	SF	\$12.00	\$12,000.00	\$38.00	\$38,000.00	\$15.00	\$15,000.00	\$44.00	\$44,000.00	\$17.00	\$17,000.00
623.06	6-Inch Conduit	180	SF	\$18.00	\$3,240.00	\$95.00	\$9,900.00	\$58.00	\$10,440.00	\$60.00	\$10,800.00	\$65.00	\$11,700.00
627.01	Remove and Reset Sign Post(s) and Panel(s)	15	LF	\$200.00	\$3,000.00	\$125.00	\$1,875.00	\$150.00	\$2,250.00	\$140.00	\$2,100.00	\$242.00	\$3,630.00
627.02	Permanent Sign (Ground Mounted - Metal Post)	3	LF	\$300.00	\$900.00	\$250.00	\$750.00	\$250.00	\$750.00	\$140.00	\$420.00	\$336.00	\$1,008.00
628.01	Pavement Markings (Type 2) Arrow Legend	9	LF	\$150.00	\$1,350.00	\$250.00	\$2,250.00	\$160.00	\$1,440.00	\$200.00	\$1,800.00	\$195.00	\$1,755.00
628.02	Pavement Markings (Type 2) Only Legend	2	SF	\$200.00	\$400.00	\$250.00	\$500.00	\$180.00	\$360.00	\$200.00	\$400.00	\$253.00	\$506.00
628.03	Pavement Markings (Type 2) Stop Bar	23	EA	\$6.00	\$138.00	\$7.00	\$161.00	\$6.00	\$138.00	\$9.00	\$207.00	\$6.00	\$138.00
628.04	Pavement Markings (Type 1 Polyurea) (4-Inch Solid White)	2,800	EA	\$3.00	\$8,400.00	\$2.00	\$5,600.00	\$2.00	\$5,600.00	\$1.00	\$2,800.00	\$2.00	\$5,600.00
628.05	Pavement Markings (Type 1 Polyurea) (4-Inch Broken Yellow)	28	LF	\$1.50	\$42.00	\$2.00	\$56.00	\$2.00	\$56.00	\$1.00	\$28.00	\$2.00	\$56.00
628.06	Refresh Pavement Markings (Type 1 Polyurea) (4-Inch Solid White)	2,540	LF	\$3.00	\$7,620.00	\$2.00	\$5,080.00	\$2.00	\$5,080.00	\$1.00	\$2,540.00	\$2.00	\$5,080.00
628.07	Pavement Markings (Type 2) Yellow	1,380	EA	\$6.00	\$8,280.00	\$7.00	\$9,660.00	\$6.00	\$8,280.00	\$10.00	\$13,800.00	\$7.00	\$9,660.00
628.08	Pavement Markings (Type 2) White	1,170	EA	\$6.00	\$7,020.00	\$7.00	\$8,190.00	\$6.00	\$7,020.00	\$9.00	\$10,530.00	\$7.00	\$8,190.00
629.01	12-Inch Ductile Iron Tee (Pressure Class 50)	88	EA	\$225.00	\$19,800.00	\$210.00	\$18,480.00	\$220.00	\$19,360.00	\$350.00	\$30,800.00	\$418.00	\$36,784.00
629.02	12-Inch 45° Elbow	2	LF	\$430.00	\$860.00	\$1,500.00	\$3,000.00	\$1,100.00	\$2,200.00	\$500.00	\$1,000.00	\$1,553.00	\$3,106.00
629.03	12-Inch 90° Elbow	2	LF	\$540.00	\$1,080.00	\$1,500.00	\$3,000.00	\$1,150.00	\$2,300.00	\$500.00	\$1,000.00	\$1,298.00	\$2,596.00
629.04	24-Inch Steel Casing	32	LF	\$110.00	\$3,520.00	\$155.00	\$4,960.00	\$250.00	\$8,000.00	\$250.00	\$8,000.00	\$142.00	\$4,544.00
629.05	Tapping Sleeve And Valve	1	LF	\$750.00	\$750.00	\$6,000.00	\$6,000.00	\$7,500.00	\$7,500.00	\$10,000.00	\$10,000.00	\$8,236.00	\$8,236.00
629.06	Adjust Water Valve Box to Finish Grade	7	LF	\$650.00	\$4,550.00	\$505.00	\$3,535.00	\$800.00	\$5,600.00	\$900.00	\$6,300.00	\$1,340.00	\$9,380.00
629.07	12-Inch PVC (C900)	49	EA	\$250.00	\$12,250.00	\$130.00	\$6,370.00	\$150.00	\$7,350.00	\$500.00	\$24,500.00	\$191.00	\$9,359.00
630.01	8-Inch PVC (SDR-35) Sanitary Sewer Pipe	89	EA	\$240.00	\$21,360.00	\$125.00	\$11,125.00	\$135.00	\$12,015.00	\$210.00	\$18,690.00	\$178.00	\$15,842.00
630.02	12-Inch PVC (SDR-35) Sanitary Sewer Pipe	64	LF	\$260.00	\$16,640.00	\$210.00	\$13,440.00	\$185.00	\$11,840.00	\$215.00	\$13,760.00	\$143.00	\$9,152.00
630.03	8-Inch PVC (C900) Sanitary Sewer Pipe	127	LF	\$240.00	\$30,480.00	\$195.00	\$24,765.00	\$185.00	\$23,495.00	\$235.00	\$29,845.00	\$177.00	\$22,479.00
630.04	10-Inch PVC (C900) Sanitary Sewer Pipe	110	EA	\$250.00	\$27,500.00	\$205.00	\$22,550.00	\$215.00	\$23,650.00	\$240.00	\$26,400.00	\$221.00	\$24,310.00
630.05	16-Inch PVC (C905) Sanitary Sewer Pipe	263	EA	\$275.00	\$72,325.00	\$325.00	\$85,475.00	\$195.00	\$51,285.00	\$190.00	\$49,970.00	\$151.00	\$39,713.00
630.06	48-Inch Sanitary Sewer Manhole	4	EA	\$10,000.00	\$40,000.00	\$14,000.00	\$56,000.00	\$9,200.00	\$36,800.00	\$11,000.00	\$44,000.00	\$12,083.00	\$48,332.00
630.07	60-Inch Sanitary Sewer Manhole	2	LF	\$13,000.00	\$26,000.00	\$18,000.00	\$36,000.00	\$13,600.00	\$27,200.00	\$14,500.00	\$29,000.00	\$17,044.00	\$34,088.00
630.08	72-Inch Sanitary Sewer Manhole	3	LF	\$16,000.00	\$48,000.00	\$20,000.00	\$60,000.00	\$15,400.00	\$46,200.00	\$15,500.00	\$46,500.00	\$19,049.00	\$57,147.00
630.09	Vertically Adjust Sewer Manhole Cover	2	EA	\$1,000.00	\$2,000.00	\$975.00	\$1,950.00	\$2,100.00	\$4,200.00	\$1,000.00	\$2,000.00	\$1,524.00	\$3,048.00
630.10	Modified Concrete Cap	121	EA	\$100.00	\$12,100.00	\$220.00	\$26,620.00	\$320.00	\$38,720.00	\$200.00	\$24,200.00	\$343.00	\$41,503.00
633.01	Non-reflective Pavement Markers	1,391	LS	\$3.00	\$4,173.00	\$3.00	\$4,173.00	\$3.00	\$4,173.00	\$3.00	\$4,173.00	\$2.00	\$2,782.00
633.02	Reflective Pavement Markers	503	LS	\$3.00	\$1,509.00	\$3.00	\$1,509.00	\$3.00	\$1,509.00	\$4.00	\$2,012.00	\$4.00	\$2,012.00
637.01	Dust Control	1	LS	\$175,000.00	\$175,000.00	\$110,000.00	\$110,000.00	\$95,000.00	\$95,000.00	\$30,000.00	\$30,000.00	\$54,369.00	\$54,369.00
637.02	Temporary Pollution Control	1	LS	\$5,000.00	\$5,000.00	\$18,000.00	\$18,000.00	\$20,000.00	\$20,000.00	\$15,000.00	\$15,000.00	\$51,145.00	\$51,145.00
BASE BID TOTAL					\$12,553,296.00		\$11,164,234.00		\$11,207,887.00	B	\$12,174,082.00		\$12,271,001.00

Subcontractors:	Self Performed Work		TAB Contractors	Las Vegas Paving	Mountain Cascade of Nevada	Contri Construction
	Concrete		Stewart & Sundell	Stewart & Sundell		Stewart & Sundell
Asphalt		Wells Cargo			Aggregate Industries	Aggregate Industries
Traffic Control		Nelson Hinker				Nelson Hinker
Electrical		MC4 Construction				Las Vegas Electric
Droplets & Manholes			Olson Precast			Olson Precast
Suppliers:	Plantmix Bituminous Surface	Wells Cargo	Las Vegas Paving	Aggregate Industries	Aggregate Industries	
	Portland Cement Concrete	Nevada Ready Mix	Nevada Ready Mix	Service Rock Products	Nevada Ready Mix	
	Reinforced Concrete Box	Rinker Materials	Rinker Materials	Rinker Materials	Rinker Materials	

BID ABSTRACT
CITY OF NORTH LAS VEGAS
HOLLYWOOD SYSTEM DUNES SOUTH DET. BASIN TO CENTENNIAL PKWY, PH. I
CIP PROJECT NO. 10375
BID NO. 1517 - LABOR COMMISSION NO. PWP CL-2017-218
BID DATE: MAY 9, 2018

ITEM	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE		ACC SOUTHWEST		TAND, INC.		RAFAEL CONSTRUCTION	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
104.01	Traffic Control	1	LS	\$235,000.00	\$235,000.00	\$300,000.00	\$300,000.00	\$185,000.00	\$185,000.00	\$159,445.00	\$159,445.00
105.01	Construction Staking	1	LS	\$100,000.00	\$100,000.00	\$42,000.00	\$42,000.00	\$48,000.00	\$48,000.00	\$50,000.00	\$50,000.00
109.01	Construction Conflicts and Additional Work	1	LS	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00
200.01	Mobilization and Demobilization	1	LS	\$600,000.00	\$600,000.00	\$975,000.00	\$975,000.00	\$720,000.00	\$720,000.00	\$839,308.10	\$839,308.10
201.01	Clearing and Grubbing	1	Hour	\$100,000.00	\$100,000.00	\$10,000.00	\$10,000.00	\$25,000.00	\$25,000.00	\$101,602.50	\$101,602.50
202.01	Remove 6-Inch PVC	332	LS	\$15.00	\$4,980.00	\$22.50	\$7,470.00	\$45.00	\$14,940.00	\$99.89	\$33,163.48
202.02	Remove 12-Inch PVC	1,019	LS	\$20.00	\$20,380.00	\$22.50	\$22,927.50	\$50.00	\$50,950.00	\$101.81	\$103,744.39
202.03	Remove 18-Inch RCP	10	SY	\$35.00	\$350.00	\$111.00	\$1,110.00	\$55.00	\$550.00	\$426.42	\$4,264.20
202.04	Remove 24-Inch RCP	54	LF	\$35.00	\$1,890.00	\$34.50	\$1,863.00	\$60.00	\$3,240.00	\$378.97	\$20,464.38
202.05	Remove 36-Inch RCP	86	EA	\$45.00	\$3,870.00	\$22.00	\$1,892.00	\$65.00	\$5,590.00	\$241.39	\$20,759.54
202.06	Remove 42-Inch RCP	3	LF	\$55.00	\$165.00	\$253.00	\$759.00	\$70.00	\$210.00	\$1,794.61	\$5,383.83
202.07	Remove 48-Inch RCP	1,019	EA	\$60.00	\$61,140.00	\$27.50	\$28,022.50	\$75.00	\$76,425.00	\$56.65	\$57,726.35
202.08	Remove 60-Inch X 38-Inch HERCP	367	EA	\$130.00	\$47,710.00	\$27.50	\$10,092.50	\$130.00	\$47,710.00	\$223.34	\$81,965.78
202.09	Remove 76-Inch X 48-Inch HERCP	54	CY	\$200.00	\$10,800.00	\$34.50	\$1,863.00	\$200.00	\$10,800.00	\$224.53	\$12,124.62
202.10	Remove 83-Inch X 53-Inch HERCP	109	CY	\$220.00	\$23,980.00	\$34.50	\$3,760.50	\$300.00	\$32,700.00	\$1,121.63	\$122,257.67
201.01	Remove Storm Drain Manhole	8	CY	\$1,400.00	\$11,200.00	\$1,000.00	\$8,000.00	\$1,400.00	\$11,200.00	\$2,858.67	\$22,869.36
202.12	Remove Sewer Manhole	3	CY	\$4,000.00	\$12,000.00	\$1,000.00	\$3,000.00	\$1,600.00	\$4,800.00	\$4,126.51	\$12,379.53
202.13	Remove Sewer Line	605	LF	\$50.00	\$30,250.00	\$22.50	\$13,612.50	\$65.00	\$39,325.00	\$64.58	\$39,070.90
202.14	Remove Water Line	248	SY	\$30.00	\$7,440.00	\$23.00	\$5,704.00	\$35.00	\$8,680.00	\$143.83	\$35,669.84
202.15	Remove Concrete Structure	1	LF	\$10,000.00	\$10,000.00	\$4,000.00	\$4,000.00	\$5,500.00	\$5,500.00	\$20,152.14	\$20,152.14
202.16	Remove 12-Foot X 5-Foot Reinforced Concrete Box	115	LF	\$250.00	\$28,750.00	\$63.50	\$7,302.50	\$200.00	\$23,000.00	\$421.26	\$48,444.90
202.17	Remove Concrete Cross Gutter	36	EA	\$45.00	\$1,620.00	\$77.50	\$2,790.00	\$65.00	\$2,340.00	\$105.13	\$3,784.68
202.18	Remove and Reset Portable Precast Concrete Barrier Rail	8	EA	\$200.00	\$1,200.00	\$277.00	\$1,662.00	\$220.00	\$1,320.00	\$477.94	\$2,867.64
203.01	Roadway Excavation	4,560	EA	\$12.00	\$54,720.00	\$33.50	\$152,760.00	\$16.00	\$72,960.00	\$28.12	\$128,227.20
206.01	Cold Planning	3,150	SF	\$20.00	\$63,000.00	\$3.70	\$11,655.00	\$4.00	\$12,600.00	\$5.41	\$17,041.50
302.01	Type II Aggregate Base	2,650	LF	\$40.00	\$106,000.00	\$38.50	\$102,025.00	\$32.00	\$84,800.00	\$44.68	\$118,402.00
402.01	Plantmix Bituminous Surface	4,230	LF	\$90.00	\$380,700.00	\$98.00	\$414,540.00	\$95.00	\$401,850.00	\$97.98	\$414,455.40
502.01	6-Foot X 6-Foot Precast Concrete Box	1,510	LF	\$700.00	\$1,057,000.00	\$608.00	\$918,080.00	\$735.00	\$1,109,850.00	\$1,310.28	\$1,978,822.80
502.02	10-Foot X 6-Foot Reinforced Concrete Box	2,635	LF	\$900.00	\$2,371,500.00	\$889.00	\$2,342,515.00	\$1,000.00	\$2,635,000.00	\$1,043.04	\$2,748,410.40
502.03	12-Foot X 6-Foot Reinforced Concrete Box	2,863	LF	\$1,300.00	\$3,721,900.00	\$1,194.00	\$3,418,422.00	\$1,100.00	\$3,149,300.00	\$1,129.14	\$3,232,727.82
502.04	Double (2) - 12-Foot X 6-Foot Reinforced Concrete Box	839	EA	\$2,200.00	\$1,845,800.00	\$2,124.00	\$1,782,036.00	\$2,200.00	\$1,845,800.00	\$1,698.40	\$1,424,957.60
502.05	12-Foot X 6-Foot To 10-Foot X 6-Foot CIP Transition	1	LF	\$13,500.00	\$13,500.00	\$24,000.00	\$24,000.00	\$42,000.00	\$42,000.00	\$219,991.04	\$219,991.04
502.06	10-Foot X 6-Foot To 12-Foot X 4-Foot CIP	1	LF	\$25,000.00	\$25,000.00	\$26,000.00	\$26,000.00	\$38,000.00	\$38,000.00	\$39,555.92	\$39,555.92
502.07	Ann Road Confluence Structure	1	LF	\$55,000.00	\$55,000.00	\$15,000.00	\$15,000.00	\$36,000.00	\$36,000.00	\$244,618.09	\$244,618.09
502.08	Azure Avenue Confluence Structure	1	EA	\$70,000.00	\$70,000.00	\$114,000.00	\$114,000.00	\$34,000.00	\$34,000.00	\$223,772.18	\$223,772.18
502.09	El Campo Grande Confluence Structure	1	EA	\$60,000.00	\$60,000.00	\$100,000.00	\$100,000.00	\$36,000.00	\$36,000.00	\$150,534.32	\$150,534.32
502.10	Flow Equalizer	4	EA	\$18,000.00	\$72,000.00	\$5,200.00	\$20,800.00	\$62,000.00	\$248,000.00	\$33,297.33	\$133,189.32
502.11	RCP Plug (18-inch)	1	EA	\$50.00	\$50.00	\$1,800.00	\$1,800.00	\$550.00	\$550.00	\$3,575.15	\$3,575.15
502.12	RCP Plug (24-inch)	4	EA	\$90.00	\$320.00	\$1,810.00	\$7,240.00	\$650.00	\$2,600.00	\$3,614.09	\$14,456.36
502.13	RCP Plug (48-inch)	1	EA	\$300.00	\$300.00	\$1,960.00	\$1,960.00	\$1,800.00	\$1,800.00	\$4,860.18	\$4,860.18
502.14	RCP Plug (60-inch)	1	EA	\$500.00	\$500.00	\$2,090.00	\$2,090.00	\$2,000.00	\$2,000.00	\$4,938.38	\$4,938.38
502.15	Precast RCB Plug	5	EA	\$2,500.00	\$12,500.00	\$4,790.00	\$23,950.00	\$5,000.00	\$25,000.00	\$3,148.52	\$15,742.60
502.16	12-Foot X 20-Foot Bubbler	1	LF	\$35,000.00	\$35,000.00	\$100,000.00	\$100,000.00	\$40,000.00	\$40,000.00	\$95,823.78	\$95,823.78
603.01	18-Inch Reinforced Concrete Pipe (Class III)	61	LF	\$125.00	\$7,625.00	\$359.00	\$21,899.00	\$220.00	\$13,420.00	\$359.06	\$21,902.66
603.02	24-Inch Reinforced Concrete Pipe (Class III)	284	SY	\$175.00	\$49,700.00	\$371.00	\$105,364.00	\$220.00	\$62,480.00	\$213.57	\$60,653.88
603.03	30-Inch Reinforced Concrete Pipe (Class III)	182	SY	\$215.00	\$39,130.00	\$366.00	\$66,612.00	\$250.00	\$45,500.00	\$471.04	\$85,729.28
603.04	36-Inch Reinforced Concrete Pipe (Class III)	25	SF	\$225.00	\$5,625.00	\$292.00	\$7,300.00	\$360.00	\$9,000.00	\$681.21	\$17,030.25
603.05	48-Inch Reinforced Concrete Pipe (Class III)	143	EA	\$290.00	\$41,470.00	\$431.00	\$61,633.00	\$300.00	\$42,900.00	\$536.56	\$76,728.08
603.06	60-Inch Reinforced Concrete Pipe (Class III)	41	EA	\$350.00	\$14,350.00	\$545.00	\$22,345.00	\$400.00	\$16,400.00	\$653.56	\$26,795.96
605.01	18-inch PVC (C905) Storm Drain Pipe	39	LF	\$190.00	\$7,410.00	\$338.00	\$13,182.00	\$160.00	\$6,240.00	\$324.92	\$12,671.88
605.02	24-inch PVC (C905) Storm Drain Pipe	42	EA	\$220.00	\$9,240.00	\$278.00	\$11,676.00	\$180.00	\$7,560.00	\$327.92	\$13,772.64
605.03	30-inch PVC (C905) Storm Drain Pipe	42	EA	\$250.00	\$10,500.00	\$342.00	\$14,364.00	\$190.00	\$7,980.00	\$497.15	\$20,980.30
609.01	RCB Manhole	24	EA	\$3,000.00	\$72,000.00	\$1,800.00	\$43,200.00	\$3,300.00	\$79,200.00	\$6,497.65	\$155,943.60
609.02	Type III Storm Drain Manhole (60-inch)	2	EA	\$8,000.00	\$16,000.00	\$8,700.00	\$17,400.00	\$6,600.00	\$13,200.00	\$2,922.73	\$5,845.46
609.03	NDOT Type 4 Storm Drain Manhole	2	EA	\$10,000.00	\$20,000.00	\$10,200.00	\$20,400.00	\$14,000.00	\$28,000.00	\$7,515.71	\$15,031.42
609.04	NDOT Type 2 Drop Inlet With Concrete Apron	2	LF	\$5,500.00	\$11,000.00	\$10,400.00	\$20,800.00	\$5,000.00	\$10,000.00	\$17,603.25	\$35,206.50
609.05	NDOT Type 2B Drop Inlet With Concrete Apron	1	LF	\$5,500.00	\$5,500.00	\$10,600.00	\$10,600.00	\$5,500.00	\$5,500.00	\$20,804.72	\$20,804.72
609.06	Drop Inlet Type "DM" (L=10-Feet)	2	LF	\$10,000.00	\$20,000.00	\$14,600.00	\$29,200.00	\$11,000.00	\$22,000.00	\$25,175.24	\$50,350.48
609.07	Drop Inlet Type "DM" (L=12.5-Feet)	1	LS	\$12,500.00	\$12,500.00	\$16,200.00	\$16,200.00	\$13,000.00	\$13,000.00	\$29,295.95	\$29,295.95

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BID DATE: MAY 9, 2018

ITEM	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE		ACC SOUTHWEST		TAND, INC.		RAFAEL CONSTRUCTION	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
609.08	Drop Inlet Type "DM" (L=20-Feet)	6	EA	\$12,500.00	\$75,000.00	\$22,600.00	\$135,600.00	\$22,000.00	\$132,000.00	\$24,325.95	\$145,961.70
613.01	Reconstruct Cross Gutter	140	EA	\$130.00	\$18,200.00	\$106.00	\$14,840.00	\$150.00	\$21,000.00	\$110.98	\$15,537.20
613.02	Reconstruct Concrete Sidewalk	21	EA	\$54.00	\$1,134.00	\$53.50	\$1,123.50	\$92.00	\$1,932.00	\$194.20	\$4,078.20
613.03	Reconstruct Concrete Sidewalk Ramp	2	EA	\$1,000.00	\$2,000.00	\$908.00	\$1,816.00	\$4,500.00	\$9,000.00	\$6,286.45	\$12,572.90
613.04	Construct Concrete Curb and Gutter, Type 1	20	EA	\$22.00	\$440.00	\$55.50	\$1,110.00	\$150.00	\$3,000.00	\$39.10	\$782.00
613.05	Reconstruct Concrete Median	141	EA	\$120.00	\$16,920.00	\$100.00	\$14,100.00	\$120.00	\$16,920.00	\$100.05	\$14,107.05
623.01	No. 3.5 Pull Box	2	EA	\$350.00	\$700.00	\$581.00	\$1,162.00	\$650.00	\$1,300.00	\$592.25	\$1,184.50
623.02	No. 7 Pull Box	2	EA	\$900.00	\$1,800.00	\$1,600.00	\$3,200.00	\$1,800.00	\$3,600.00	\$1,592.75	\$3,185.50
623.03	P30 Pull Box	2	EA	\$1,000.00	\$2,000.00	\$1,400.00	\$2,800.00	\$1,600.00	\$3,200.00	\$1,380.00	\$2,760.00
623.04	2-Inch Conduit	750	EA	\$11.00	\$8,250.00	\$14.30	\$10,500.00	\$16.00	\$12,000.00	\$14.38	\$10,785.00
623.05	3-Inch Conduit	1,000	SF	\$12.00	\$12,000.00	\$16.50	\$16,500.00	\$18.00	\$18,000.00	\$16.68	\$16,680.00
623.06	6-Inch Conduit	180	SF	\$18.00	\$3,240.00	\$62.70	\$11,160.00	\$85.00	\$15,300.00	\$63.25	\$11,385.00
627.01	Remove and Reset Sign Post(s) and Panel(s)	15	LF	\$200.00	\$3,000.00	\$250.00	\$3,750.00	\$220.00	\$3,300.00	\$143.75	\$2,156.25
627.02	Permanent Sign (Ground Mounted - Metal Post)	3	LF	\$300.00	\$900.00	\$250.00	\$750.00	\$325.00	\$975.00	\$143.75	\$431.25
628.01	Pavement Markings (Type 2) Arrow Legend	9	LF	\$150.00	\$1,350.00	\$170.00	\$1,530.00	\$200.00	\$1,800.00	\$224.25	\$2,018.25
628.02	Pavement Markings (Type 2) Only Legend	2	SF	\$200.00	\$400.00	\$430.00	\$860.00	\$230.00	\$460.00	\$201.25	\$402.50
628.03	Pavement Markings (Type 2) Stop Bar	23	EA	\$6.00	\$138.00	\$6.00	\$138.00	\$550.00	\$12,650.00	\$9.20	\$211.60
628.04	Pavement Markings (Type 1 Polyurea) (4-Inch Solid White)	2,800	EA	\$3.00	\$8,400.00	\$1.00	\$2,800.00	\$2.00	\$5,600.00	\$0.86	\$2,408.00
628.05	Pavement Markings (Type 1 Polyurea) (4-Inch Broken Yellow)	28	LF	\$1.50	\$42.00	\$0.30	\$25.20	\$2.00	\$56.00	\$0.16	\$24.08
628.06	Refresh Pavement Markings (Type 1 Polyurea) (4-Inch Solid White)	2,540	LF	\$3.00	\$7,620.00	\$1.00	\$2,540.00	\$2.00	\$5,080.00	\$0.16	\$2,184.40
628.07	Pavement Markings (Type 2) Yellow	1,380	EA	\$6.00	\$8,280.00	\$6.00	\$8,280.00	\$8.00	\$11,040.00	\$9.20	\$12,696.00
628.08	Pavement markings (Type 2) white	1,170	EA	\$6.00	\$7,020.00	\$6.00	\$7,020.00	\$8.00	\$9,360.00	\$9.20	\$10,764.00
629.01	Install 12-inch ductile iron pipe (pressure class 200)	88	EA	\$225.00	\$19,800.00	\$307.00	\$27,016.00	\$250.00	\$22,000.00	\$488.01	\$42,944.88
629.02	12-inch 45° Elbow	2	LF	\$430.00	\$860.00	\$750.00	\$1,500.00	\$880.00	\$1,760.00	\$2,992.05	\$5,984.10
629.03	12-inch 90° Elbow	2	LF	\$540.00	\$1,080.00	\$800.00	\$1,600.00	\$880.00	\$1,760.00	\$2,992.05	\$5,984.10
629.04	24-Inch Steel Casing	32	LF	\$110.00	\$3,520.00	\$260.00	\$8,320.00	\$150.00	\$4,800.00	\$137.03	\$4,384.96
629.05	Tapping Sleeve And Valve	1	LF	\$750.00	\$750.00	\$8,000.00	\$8,000.00	\$8,800.00	\$8,800.00	\$6,871.08	\$6,871.08
629.06	Adjust Water Valve Box to Finish Grade	7	LF	\$650.00	\$4,550.00	\$500.00	\$3,500.00	\$550.00	\$3,850.00	\$549.60	\$3,847.20
629.07	12-inch PVC (C900)	49	EA	\$250.00	\$12,250.00	\$580.00	\$28,420.00	\$200.00	\$9,800.00	\$269.46	\$13,203.54
630.01	8-Inch PVC (SDR-35) Sanitary Sewer Pipe	89	EA	\$240.00	\$21,360.00	\$255.00	\$22,695.00	\$200.00	\$17,800.00	\$269.35	\$23,972.15
630.02	12-Inch PVC (SDR-35) Sanitary Sewer Pipe	64	LF	\$260.00	\$16,640.00	\$355.00	\$22,720.00	\$220.00	\$14,080.00	\$336.27	\$21,521.28
630.03	8-Inch PVC (C900) Sanitary Sewer Pipe	127	LF	\$240.00	\$30,480.00	\$267.00	\$33,909.00	\$200.00	\$25,400.00	\$332.25	\$42,195.75
630.04	10-Inch PVC (C900) Sanitary Sewer Pipe	110	EA	\$250.00	\$27,500.00	\$305.00	\$33,550.00	\$220.00	\$24,200.00	\$499.58	\$54,953.80
630.05	16-Inch PVC (C905) Sanitary Sewer Pipe	263	EA	\$275.00	\$72,325.00	\$196.00	\$51,548.00	\$250.00	\$65,750.00	\$562.74	\$148,000.62
630.06	48-Inch Sanitary Sewer Manhole	4	EA	\$10,000.00	\$40,000.00	\$7,800.00	\$31,200.00	\$6,600.00	\$26,400.00	\$10,735.48	\$42,941.92
630.07	60-Inch Sanitary Sewer Manhole	2	LF	\$13,000.00	\$26,000.00	\$12,000.00	\$24,000.00	\$10,000.00	\$20,000.00	\$11,361.08	\$22,722.16
630.08	72-Inch Sanitary Sewer Manhole	3	LF	\$16,000.00	\$48,000.00	\$13,000.00	\$39,000.00	\$18,000.00	\$54,000.00	\$11,842.93	\$35,528.79
630.09	Vertically Adjust Sewer Manhole Cover	2	EA	\$1,000.00	\$2,000.00	\$2,300.00	\$4,600.00	\$1,200.00	\$2,400.00	\$1,661.16	\$3,322.32
630.10	Modified Concrete Cap	121	EA	\$100.00	\$12,100.00	\$288.00	\$34,848.00	\$70.00	\$8,470.00	\$522.43	\$63,214.03
633.01	Non-reflective Pavement Markers	1,391	LS	\$3.00	\$4,173.00	\$3.00	\$4,173.00	\$3.00	\$4,173.00	\$2.99	\$4,159.09
633.02	Reflective Pavement Markers	503	LS	\$3.00	\$1,509.00	\$3.00	\$1,509.00	\$4.00	\$2,012.00	\$2.99	\$1,503.97
637.01	Dust Control	1	LS	\$175,000.00	\$175,000.00	\$50,000.00	\$50,000.00	\$125,000.00	\$125,000.00	\$9,200.00	\$9,200.00
637.02	Temporary Pollution Control	1	LS	\$5,000.00	\$5,000.00	\$15,000.00	\$15,000.00	\$60,000.00	\$60,000.00	\$21,275.00	\$21,275.00
BASE BID TOTAL					\$12,553,296.00		\$12,452,591.70		\$12,557,798.00		\$14,759,940.05

Subcontractors:	Self Performed Work	ACC Southwest	Tand, Inc.	Rafael Construction
	Concrete	Stewart & Sundell		Jensen Precast
	Asphalt	Wells Cargo		
	Traffic Control	Roadsafe Traffic Systems		
	Electrical			
	Droplets & Manholes	Olson Precast		
Suppliers:	Plantmix Bituminous Surface	Wells Cargo	Wells Cargo	Aggregate Industries
	Portland Cement Concrete	Sierra Ready Mix	Cemex	Sierra Ready Mix
	Reinforced Concrete Box	Rinker Materials	Jensen Precast	Jensen Precast

- A. Item 603.06 Bidder submitted a total price of \$22,550, the correct amount was \$20,500.
- B. Bidder submitted Total Base Bid of \$11,209,937, the correct amount was \$11,207,887.
- C. Bidder submitted Total Base Bid of \$14,791,144.40, the correct amount was \$14,759,940.05.
- * Bidder had several errors in the submitted bid amounts that altered the Total Base Bid.



LEGEND




-  PROPOSED FACILITY
-  EXISTING FACILITY
-  FUTURE FACILITY

EXHIBIT 'A'



**DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND CONSTRUCTION SERVICES DIVISION**

**HOLLYWOOD SYSTEM
DUNES SOUTH DETENTION BASIN TO CENTENNIAL PARKWAY PHASE I
NLV03H17**

SCALE:	N.T.S.
DRAWING NAME:	10375--VIC.dwg
DRAWN BY:	T. Cochran
DATE:	October 10, 2018
SHEET NUMBER	1 OF 1

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

LVW – MOCCASIN, SKYE CANYON PARK TO UPPER LVW
PROJECT PRESENTATION – LAS31B18

RECOMMENDATION SUMMARY

STAFF: Accept the project presentation.

TECHNICAL ADVISORY: Accept the project presentation.

CITIZENS ADVISORY: Accept the project presentation.

RFCD AGENDA
ITEM #16a
DATE: 11/08/18

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM

SUBJECT: LVW – MOCCASIN, SKYE CANYON PARK TO UPPER LVW
PETITIONER: MIKE JANSSEN, DIRECTOR CITY OF LAS VEGAS PUBLIC WORKS
RECOMMENDATION OF PETITIONER: IT IS RECOMMENDED THAT THE CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT ACCEPT THE PRESENTATION ON THE PROPOSED LVW – MOCCASIN, SKYE CANYON PARK TO UPPER LVW – LAS31B18 (FOR POSSIBLE ACTION)

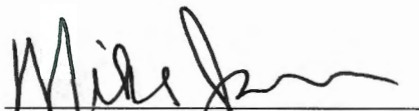
FISCAL IMPACT: None by this action

BACKGROUND:

The LVW – Moccasin, Skye Canyon Park to Upper LVW is described in the 2013 Master Plan Update as Facility Number LVMO 0000. It is further identified in the Regional Flood Control District’s Ten-Year Construction Program with construction scheduled to begin in FY 2019-2020. The proposed improvements include construction of a 16’ x 9’ RCB and associated collection facilities along Moccasin Road from Skye Canyon Park Drive to the Upper Las Vegas Wash just east of Squirrels Nest Street. Design drawings and specifications are at 90% complete, right-of-way has been obtained and all necessary permits for project acquired.

Representatives from the City of Las Vegas will be available to respond to any questions following the brief presentation.

Respectfully submitted,


 Mike Janssen, Director
 Department of Public Works

TAC AGENDA ITEM # 14a Date: 10/25/18	RFCD AGENDA ITEM # 16a Date: 11/08/18
CAC AGENDA ITEM # 14a Date: 10/29/18	

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:

Date: 10/15/18

**LVW – MOCCASIN, SKYE CANYON PARK TO UPPER LVW
PROJECT PRESENTATION – LAS31B18**

The LVW – Moccasin, Skye Canyon Park to Upper LVW is described in the 2013 Master Plan Update as Facility Number LVMO 0000. It is further identified in the Regional Flood Control District's Ten-Year Construction Program with construction scheduled to begin in FY 2019-2020. The proposed improvements include construction of a 16' x 9' RCB and associated collection facilities along Moccasin Road from Skye Canyon Park Drive to the Upper Las Vegas Wash just east of Squirrels Nest Street.

Design drawings and specifications are at 90% complete, right-of-way has been obtained and all necessary permits for project acquired.

Representatives from the City of Las Vegas will be available to respond to any questions following the brief presentation.

Staff Recommendation:

Accept the project presentation.

Discussion by Technical Advisory Committee:

AGENDA
#14a Date: 10/25/18

Recommendation:

Accept the project presentation.

Discussion by Citizens Advisory Committee:

AGENDA
#14a Date: 10/29/18

Recommendation:

Accept the project presentation.



**LAS VEGAS
CITY COUNCIL**

CAROLYN G. GOODMAN
Mayor

LOIS TARKANIAN
Mayor Pro-Tem

STAVROS S. ANTHONY
BOB COFFIN
STEVEN G. SEROKA
MICHELE FIORE
CEDRIC CREAR

SCOTT D. ADAMS
City Manager

DEPARTMENT OF
PUBLIC WORKS
MIKE JANSSEN
DIRECTOR

**DEVELOPMENT
SERVICES CENTER**

333 N. RANCHO DRIVE
LAS VEGAS, NV 89106
702.229.6272 | VOICE
711 | TTY



cityoflasvegas
lasvegasnevada.gov

October 8, 2018

Steven C. Parrish, P.E.
General Manager/Chief Engineer
Clark County Regional Flood Control District
600 South Grand Central Parkway, Suite 300
Las Vegas, NV 89106-5411

RE: LVW – Moccasin, Skye Canyon Park to Upper LVW

Dear Mr. Parrish:

The City of Las Vegas is pleased to present this project to the Technical Advisory Committee, Citizens Advisory Committee and the District’s Board for approval. The design plans and specifications for the above referenced project are now over 90% complete and have been submitted to the District. The following information is being submitted to comply with the requirements set forth by NRS 543.580:

Project History and Project Description: The LVW – Moccasin, Skye Canyon Park to Upper LVW is described in the 2013 Master Plan Update as Facility Number LVMO 0000. It is further identified in the Regional Flood Control District’s Ten-Year Construction Program with construction scheduled to begin in FY 2019-2020. The proposed improvements include construction of a 16’ x 9’ RCB and associated collection facilities along Moccasin Road from Skye Canyon Park Drive to the Upper Las Vegas Wash just east of Squirrels Nest Street. The improvements shall be funded through DISTRICT funds as herein described. This project is further identified and shown on the attached Exhibit “A”.

Project Cost: A detailed cost estimate for construction is attached as “Exhibit B”. Project costs are estimated to be:

Design Engineering	\$ 60,000
Environmental Mitigation	\$ 0
Right-of-Way	\$ 0
Construction	\$ 14,386,525
Construction Management	\$ 1,007,057
Project Total =	\$ 15,453,582

Outside Funding Sources: No outside funding source for this project. Design was completed for Skye Canyon by Developer Participation. The design was reviewed and approved by both the City of Las Vegas and Regional Flood Control District staff. Construction of this project will be bid and managed by the City of Las Vegas.

Projected Construction Schedule: Listed below are the estimated dates for construction of the project.

- Award of Bid Date: February 1, 2019
- Construction Start Date: April 1, 2019
- Project Duration: 14 months

Cash Flow Projections: Attached is a cash flow projection that estimates how funds will be drawn to pay the contractor.

Right-of-Way: The project will be constructed within an existing Public Right-of-Way.

Economic Benefit: Based on the report prepared by the District dated August 8, 2005 and accepted by the Board on September 8, 2005, the cost benefit ratio is determined to be 2.0 to 1.

Environmental Requirements: A Section 8 Environmental Assessment was accepted by the District in March 21, 2018. The EA showed no significant impacts to the surrounding area.

Project Enhancements: None.

If you have any questions, please contact the undersigned at (702) 229-1815.

Sincerely,



Oh-Sang Kwon, P.E.
Engineering Project Manager
Department of Public Works

Enclosures:

Cash Flow Projection
Project Map – “Exhibit A”
Detailed Cost Estimate – “Exhibit B”

cc: Mike Janssen, P.E. – CLV
Allen Pavelka, P.E. – CLV
Mark Sorensen, P.E. – CLV

Clark County Regional Flood Control District Cash Flow Projection

Today's Date: 10/11/2018




Project Number: LAS31B18
 Project Name: LVW - Moccasin, Skye Canyon Park to Upper LVW
 Project Type: Storm Drain
 ILC Amount: \$15,393,582

Construction Schedule

Milestone	Estimate	Revised	Actual
Award of Bid	2/1/2019		
CONS Start	4/1/2019		
CONS Complete	5/31/2020		
Project Duration	14 Months		

Billing Month	Original Estimate		Actual Drawdowns		Variance		Revised Estimate	
	\$	%	\$	%	\$	%	\$	%
Apr-19	\$153,936	1%						
May-19	\$307,872	2%						
Jun-19	\$615,743	4%						
Jul-19	\$923,615	6%						
Aug-19	\$1,077,551	7%						
Sep-19	\$1,231,487	8%						
Oct-19	\$1,231,487	8%						
Nov-19	\$1,539,358	10%						
Dec-19	\$1,539,358	10%						
Jan-20	\$1,693,294	11%						
Feb-20	\$1,693,294	11%						
Mar-20	\$1,693,294	11%						
Apr-20	\$923,615	6%						
May-20	\$769,679	5%						
Total	\$15,393,582	100%						0.00%

LEGEND

-  Proposed CCRFCD Facility
-  Future CCRFCD Facility
-  Existing CCRFCD Facility


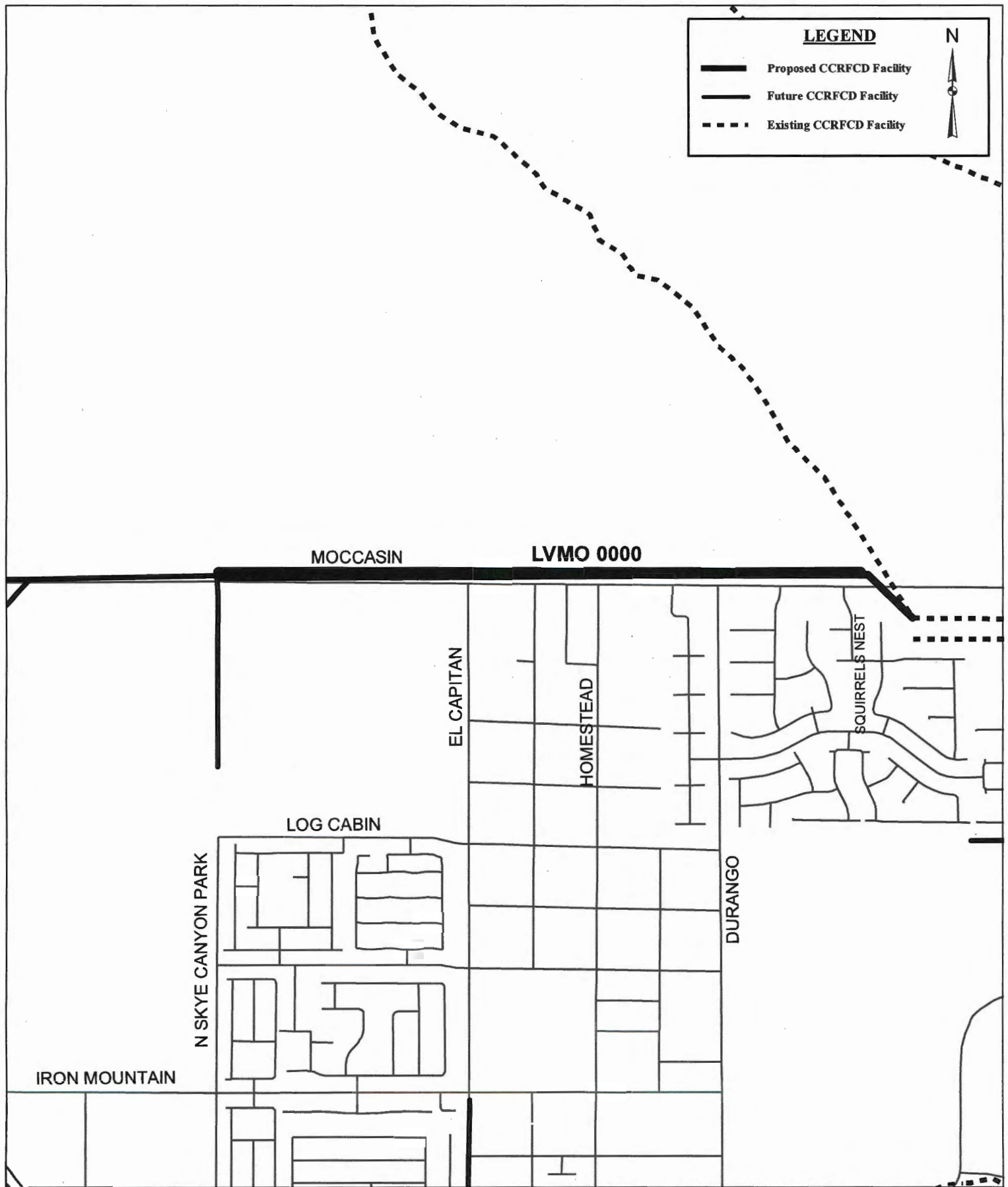



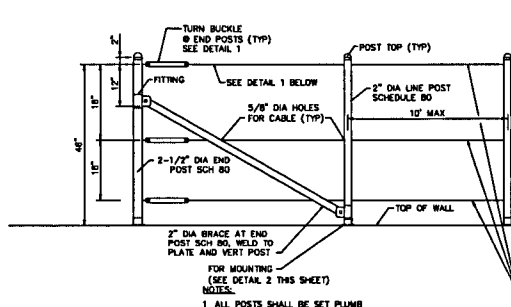
EXHIBIT A
LAS VEGAS WASH - MOCCASIN,
SKYE CANYON PARK TO UPPER LAS VEGAS WASH
 LAS31B18

SCALE: 1 INCH = 16,000 FT
 DRAWING NAME:
 Las Vegas Wash_Moccasin_SkyeCanyPk_UpperL.VW.MXD
 DRAWN BY: C. JONES
 DATE: 10/01/2018
 SHEET NUMBER 1 OF 1

100% Construction Cost Estimate for
Moccasin Rd CCRFCD Flood Control Facility
Moccasin Rd to CCRFCD Facility LVUP 1076/1077

ITEM NO.	ITEM DESCRIPTION	Quantity	UOM	Unit Price	Extended Price
105.01	CONTRACTOR QUALITY CONTROL	1	LS	\$100,000.00	\$100,000.00
109.01	OWNER INITIATED TIME EXTENSION ALLOWANCE	30	DAY	\$500.00	\$15,000.00
109.02	OWNER INITIATED TIME EXTENSION AMOUNT IN ADDITION TO ALLOWANCE	30	DAY	\$750.00	\$22,500.00
200.01	MOBILIZATION AND DEMOBILIZATION	1	LS	\$500,000.00	\$500,000.00
202.01	REMOVE CONCRETE FILLED MEDIAN AND CURB	1,286	SF	\$5.00	\$6,430.00
202.02	REMOVE 250W HPS LUMINAIRE STREETLIGHT	1	EA	\$1,500.00	\$1,500.00
202.03	REMOVE 10"W x 5"H RCB	784	LF	\$50.00	\$39,200.00
202.04	REMOVE STORM DRAIN MANHOLE	3	EA	\$1,500.00	\$4,500.00
202.05	REMOVE 30" RCP STORM DRAIN	6	LF	\$40.00	\$240.00
202.06	REMOVE RETAINING WALL	102	LF	\$50.00	\$5,100.00
202.07	REMOVE "ROLL" TYPE CURB	271	LF	\$4.00	\$1,084.00
202.08	REMOVE STORM DRAIN DROP INLET	2	EA	\$1,500.00	\$3,000.00
202.09	REMOVE HEADWALL	1	EA	\$2,000.00	\$2,000.00
202.10	REMOVE "L" TYPE CURB	41	LF	\$4.00	\$164.00
202.11	REMOVE CONCRETE SIDEWALK	669	SF	\$3.00	\$2,007.00
202.12	REMOVE FENCE AND GATES	4,100	LF	\$15.00	\$61,500.00
202.13	REMOVE RIPRAP AND DISASSEMBLE GABIONS	9,205	SY	\$25.00	\$230,125.00
202.14	REMOVE TREE	2	EA	\$1,000.00	\$2,000.00
202.15	REMOVE CONCRETE BUS TURNOUT	143	SF	\$5.00	\$715.00
202.16	REMOVE SANITARY SEWER MANHOLE	1	EA	\$2,000.00	\$2,000.00
202.17	REMOVE 18" SANITARY SEWER PIPE	72	LF	\$20.00	\$1,440.00
202.18	REMOVE 6" PVC WATERLINE	43	LF	\$20.00	\$860.00
202.19	REMOVE 24" PVC WATERLINE, VALVES, AND CAP	172	LF	\$25.00	\$4,300.00
202.20	REMOVE CONCRETE FLUME	5,264	SF	\$5.00	\$26,320.00
202.21	REMOVE 8" PVC WATERLINE	51	LF	\$20.00	\$1,020.00
202.22	REMOVE 8" DIP WATERLINE AND STEEL SLEEVE	136	LF	\$25.00	\$3,400.00
202.23	REMOVE CONCRETE CUTOFF WALL	400	LF	\$25.00	\$10,000.00
202.24	REMOVE AND RESET TYPE IIIA BARRICADES	1	LS	\$1,000.00	\$1,000.00
212.01	24" BOX TREE	2	EA	\$2,000.00	\$4,000.00
212.02	ROCK MULCH	14,335	SY	\$4.50	\$64,507.50
302.01	TYPE II AGGREGATE BASE	878	CY	\$30.00	\$26,340.00
402.01	PLANTMIX BITUMINOUS SURFACE (3-INCH)	537	SY	\$12.00	\$6,444.00
402.02	PLANTMIX BITUMINOUS SURFACE (5.5-INCH)	3,701	SY	\$33.00	\$122,133.00
502.01	10"W x 5'H REINFORCED CONCRETE BOX	17	LF	\$600.00	\$10,200.00
502.02	16"W x 9'H REINFORCED CONCRETE BOX	7,291	LF	\$1,400.00	\$10,207,400.00
502.03	JUNCTION STRUCTURE "SD" 84+25 TO "SD" 84+45	1	LS	\$40,000.00	\$40,000.00
502.04	35"W CONCRETE CHANNEL "SD" 12+00 TO "SD" 12+56	1	LS	\$140,000.00	\$140,000.00
502.05	CONCRETE CHANNEL WITH ACCESS "SD" 12+56 TO "SD" 13+20	1	LS	\$200,000.00	\$200,000.00
502.06	CONCRETE CHANNEL TRANSITION "SD" 13+20 TO "SD" 14+00	1	LS	\$200,000.00	\$200,000.00
502.07	CONCRETE ACCESS RAMP "SD" 13+20 TO "SD" 15+01	1	LS	\$200,000.00	\$200,000.00
502.08	CONCRETE HEADWALL (16"W x 9'H RCB)	1	LS	\$15,000.00	\$15,000.00
502.09	CONCRETE WINGWALLS "SD" 11+94 TO "SD" 12+00	1	LS	\$10,000.00	\$10,000.00
502.10	CONCRETE CUTOFF WALL	455	LF	\$250.00	\$113,750.00
502.11	CONCRETE ACCESS ROAD	926	SF	\$15.00	\$13,890.00
603.01	18-INCH REINFORCED CONCRETE PIPE (CLASS III)	131	LF	\$100.00	\$13,100.00
603.02	18-INCH REINFORCED CONCRETE PIPE (CLASS V)	24	LF	\$140.00	\$3,360.00
603.03	24-INCH REINFORCED CONCRETE PIPE (CLASS V)	32	LF	\$190.00	\$6,080.00
603.04	30-INCH REINFORCED CONCRETE PIPE (CLASS III)	35	LF	\$175.00	\$6,125.00
603.05	72-INCH REINFORCED CONCRETE PIPE (CLASS V)	40	LF	\$500.00	\$20,000.00
609.01	48-INCH RCB ACCESS MANHOLE	10	EA	\$2,500.00	\$25,000.00
609.02	60-INCH RCB ACCESS MANHOLE	2	EA	\$7,500.00	\$15,000.00
609.03	MODIFIED TYPE "DM2" STORM DRAIN DROP INLET	2	EA	\$7,500.00	\$15,000.00
609.04	NDOT TYPE 2B DROP INLET WITH CONCRETE APRON	3	EA	\$10,000.00	\$30,000.00
609.05	STORM DRAIN PIPE PLUG	10	EA	\$750.00	\$7,500.00
610.01	PARTIALLY GROUTED RIPRAP D50=12"	474	CY	\$90.00	\$42,660.00
613.01	"L" TYPE CURB AND GUTTER	41	LF	\$20.00	\$820.00
613.02	"ROLL" TYPE CURB AND GUTTER	231	LF	\$20.00	\$4,620.00
613.03	"ROLL" TYPE CURB TO "L" TYPE CURB TRANSITION	20	LF	\$20.00	\$400.00
613.04	CONCRETE SIDEWALK	668	SF	\$6.00	\$4,008.00
613.05	BUS TURNOUT	144	SF	\$20.00	\$2,880.00
613.06	CONCRETE FLUME	1,704	SF	\$15.00	\$25,560.00
613.07	MEDIAN CURB	178	LF	\$17.00	\$3,026.00
613.08	MEDIAN CONCRETE PAVING	1,047	SF	\$6.00	\$6,282.00
616.01	6-FT CHAIN LINK FENCE WITH GROUNDING	407	LF	\$16.00	\$6,512.00
616.02	12-FT WIDE CHAIN LINK GATE WITH GROUNDING	3	EA	\$1,200.00	\$3,600.00
616.03	POST AND CABLE FENCE (3-STRAND)	645	LF	\$75.00	\$48,375.00
622.01	CONSTRUCTION SURVEYING	1	LS	\$30,000.00	\$30,000.00
623.01	RESET STREETLIGHT ON NEW FOUNDATION	1	EA	\$5,000.00	\$5,000.00
624.01	TRAFFIC CONTROL AND MAINTENANCE	1	LS	\$50,000.00	\$50,000.00
628.01	8-INCH SOLID WHITE (PMF-TYPE 2)	143	LF	\$4.00	\$572.00
628.02	8-INCH SOLID YELLOW (PMF-TYPE 2)	365	LF	\$4.00	\$1,460.00
628.03	24-INCH SOLID WHITE (PMF-TYPE 2)	29	LF	\$10.00	\$290.00
628.04	24-INCH SOLID YELLOW (PMF-TYPE 2)	332	LF	\$10.00	\$3,320.00
628.05	SOLID YELLOW HATCH (PMF-TYPE 2)	74	SF	\$5.00	\$370.00
628.06	ARROW (PMF-TYPE 2)	1	EA	\$500.00	\$500.00
629.01	8-INCH WATERLINE RELOCATION "SD" 14+30	1	LS	\$40,000.00	\$40,000.00
629.02	8-INCH WATERLINE RELOCATION "SD" 18+00	1	LS	\$40,000.00	\$40,000.00
629.03	24-INCH WATERLINE RELOCATION "SD" 30+50	1	LS	\$60,000.00	\$60,000.00
629.04	24-INCH WATERLINE RELOCATION "SD" 37+80	1	LS	\$60,000.00	\$60,000.00
629.05	CAP WITH 2" BLOW-OFF ASSEMBLY	2	EA	\$3,000.00	\$6,000.00
630.01	36" STEEL SLEEVE	38	LF	\$250.00	\$9,500.00
630.02	48" SANITARY SEWER MANHOLE	1	EA	\$5,000.00	\$5,000.00
633.01	REFLECTIVE RAISED PAVEMENT MARKER	172	EA	\$3.00	\$516.00
633.02	NON-REFLECTIVE RAISED PAVEMENT MARKER	59	EA	\$2.50	\$147.50
633.03	BLUE REFLECTIVE RAISED FIRE HYDRANT ID PAVEMENT MARKER	2	EA	\$3.00	\$6.00
637.01	DUST CONTROL	1	LS	\$50,000.00	\$50,000.00
637.02	NPDES DISCHARGE PERMIT	1	LS	\$5,000.00	\$5,000.00

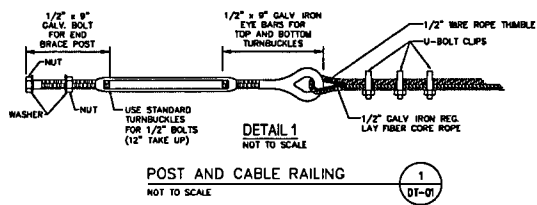
SUBTOTAL \$13,078,659.00
10% CONTINGENCY \$1,307,865.90
SUBTOTAL CONSTRUCTION \$14,386,524.90
7% CONSTRUCTION MANAGEMENT \$1,007,056.74
TOTAL \$15,393,581.64



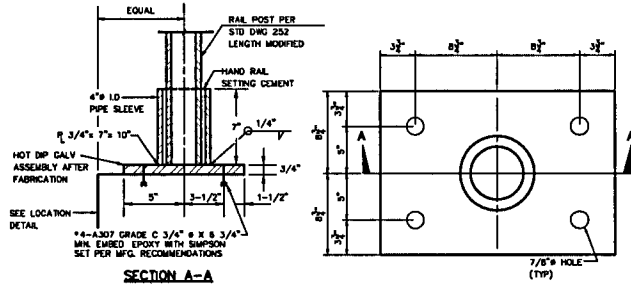
FOR MOUNTING (SEE DETAIL 2 THIS SHEET)
 NOTES:
 1. ALL POSTS SHALL BE SET PLUMB
 2. RAILING POSTS AND FITTINGS SHALL BE HOT DIPPED GALVANIZED MALLEABLE CAST IRON, OR PRESSED STEEL.
 3. GALVANIZE COMPONENTS AFTER FABRICATION
 4. BRACE BANDS SIZED FOR 1500 LBS. (WORKING LOAD).

ELEVATION VIEW

NOT TO SCALE



POST AND CABLE RAILING
 NOT TO SCALE

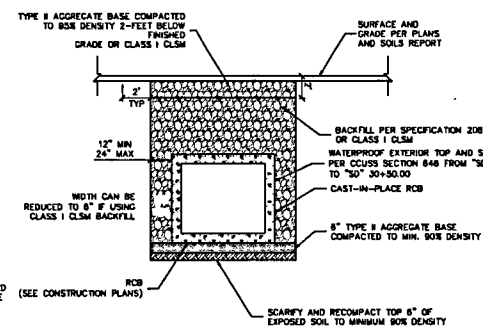


SECTION A-A

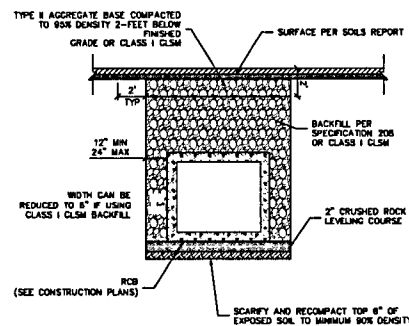
* NOTE:
 FOR 8" WALLS - ROTATE PLATE AND USE (4) BOLTS.
 POLE MOUNTS SHALL NOT BE LOCATED WITHIN 1'-00" OF CONTRACTION OR EXPANSION JOINTS.

POST, CABLE MOUNT POLE
 NOT TO SCALE

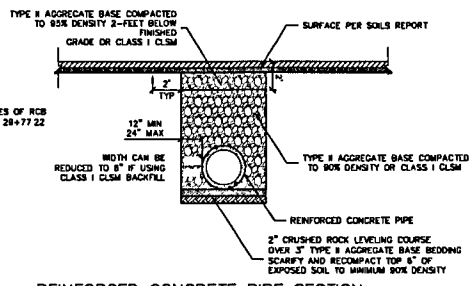
2 DT-01



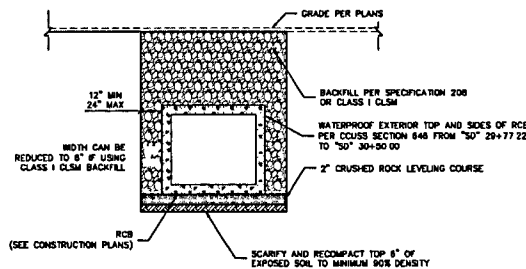
CAST-IN-PLACE REINFORCED CONCRETE BOX SECTION



PRE-CAST REINFORCED CONCRETE BOX SECTION (PAVED AREAS)



REINFORCED CONCRETE PIPE SECTION (PAVED AREAS)



PRE-CAST REINFORCED CONCRETE BOX SECTION (UNPAVED AREAS)

STANDARD TRENCH SECTIONS
 NOT TO SCALE

3 DT-01

- NOTES:
 1) TRENCH WALLS SHOULD BE APPROPRIATELY SHORED OR LAD BACK PER OSHA REQUIREMENTS.
 2) COORDINATE EXCAVATION SLOPE W/ OSHA 29 CFR 1926 SUBPART P TO DETERMINE SOIL TYPE A, B, OR C.
 3) CONTRACTOR SHALL CONSULT GEOTECHNICAL REPORT PRIOR TO EXCAVATION.
 4) INSTALL WATERPROOF MEMBRANE ON TOP OF RCB FROM 'SD' 14+00 TO 'SD' 31+00



PREPARED BY: SLATER HANIF GROUP
 CONSULTING ENGINEERS & ARCHITECTS
 1000 S. LAS VEGAS BLVD., SUITE 1000, LAS VEGAS, NV 89101
 PHONE: (702) 333-8888 FAX: (702) 333-8888

NO. DATE

PREPARED FOR: CITY OF LAS VEGAS
 MAY 2008
 DATE: SEPTEMBER 2018
 DESIGNED BY: CB
 DRAWN BY: BOC
 SUBMITTAL STAGE: 100% SUBMITTAL
 CHECKED BY: FR

PROJECT: MOCCASIN RD CCRFCD FLOOD CONTROL FACILITY
 MOCCASIN RD TO CCRFCD FACILITY LVUP 1076/1077

SECTION AND DETAILS

MOCCASIN RD CCRFCD FLOOD CONTROL FACILITY
 MOCCASIN RD TO CCRFCD FACILITY LVUP 1076/1077
 SHEET DT-01
 28 OF 45
 DRAWING NO.

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

LVW – MOCCASIN, SKYE CANYON PARK TO UPPER LVW
INTERLOCAL CONTRACT – LAS31B18

RECOMMENDATION SUMMARY

STAFF: Approve subject to approval of the Ten-Year Construction Program Amendment item on this agenda.

TECHNICAL ADVISORY: Approve subject to approval of the Ten-Year Construction Program Amendment item on this agenda.

CITIZENS ADVISORY: Approve subject to approval of the Ten-Year Construction Program Amendment item on this agenda.

**RFCD AGENDA
ITEM #16b
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM

SUBJECT:

LVW – MOCCASIN, SKYE CANYON PARK TO UPPER LVW

PETITIONER: MIKE JANSSEN, DIRECTOR

CITY OF LAS VEGAS PUBLIC WORKS

RECOMMENDATION OF PETITIONER:

IT IS RECOMMENDED THAT THE CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT APPROVE THE INTERLOCAL CONTRACT FOR CONSTRUCTION AND CONSTRUCTION MANAGEMENT FOR THE LVW – MOCCASIN, SKYE CANYON PARK TO UPPER LVW – LAS31B18 (FOR POSSIBLE ACTION)

FISCAL IMPACT:

Construction Management	\$ 1,007,057
Construction	<u>\$14,386,525</u>
Total	\$15,393,582

BACKGROUND:

The LVW – Moccasin, Skye Canyon Park to Upper LVW is described in the 2013 Master Plan Update as Facility Number LVMO 0000. It is further identified in the Regional Flood Control District's Ten-Year Construction Program with construction scheduled to begin in FY 2019-2020. The proposed improvements include construction of a 16' x 9' RCB and associated collection facilities along Moccasin Road from Skye Canyon Park Drive to the Upper Las Vegas Wash just east of Squirrels Nest Street.

This project is included in Year 2 of the Ten-Year Construction Program.

Respectfully submitted,



Mike Janssen, Director
Department of Public Works

TAC AGENDA ITEM # 14b Date: 10/25/18	RFCD AGENDA ITEM # 16b Date: 11/08/18
CAC AGENDA ITEM # 14b Date: 10/29/18	

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:

Date: 10/15/18

**LVW – MOCCASIN, SKYE CANYON PARK TO UPPER LVW
INTERLOCAL CONTRACT – LAS31B18**

The City of Las Vegas has submitted a request to approve an interlocal contract in the amount of \$15,393,582 for construction and construction engineering for the LVW – Moccasin, Skye Canyon Park to Upper LVW project.

The LVW – Moccasin, Skye Canyon Park to Upper LVW is described in the 2013 Master Plan Update as Facility Number LVMO 0000. It is further identified in the Regional Flood Control District’s Ten-Year Construction Program with construction scheduled to begin in FY 2019-2020. The proposed improvements include construction of a 16’ x 9’ RCB and associated collection facilities along Moccasin Road from Skye Canyon Park Drive to the Upper Las Vegas Wash just east of Squirrels Nest Street.

With the total project construction cost of \$13.1 million, approximately 156 jobs will be created or sustained with this project. District funding will be provided as follows:

Construction	\$14,386,525
Construction Engineering	\$ 1,007,057
Total ILC Value	\$15,393,582

This project is included in Year 2 of the Ten-Year Construction Program. The District Attorney has reviewed the contract.

Staff Recommendation:

Approve subject to approval of the Ten-Year Construction Program Amendment item on this agenda.

Discussion by Technical Advisory Committee:

AGENDA
#14b Date: 10/25/18

Recommendation:

Approve subject to approval of the Ten-Year Construction Program Amendment item on this agenda.

Discussion by Citizens Advisory Committee:

AGENDA
#14b Date: 10/29/18

Recommendation:

Approve subject to approval of the Ten-Year Construction Program Amendment item on this agenda.

**INTERLOCAL CONTRACT
LVW – MOCCASIN, SKYE CANYON PARK TO UPPER LVW**

THIS INTERLOCAL CONTRACT made and entered into as of the ____ day of _____, 2018 by and between the Clark County Regional Flood Control District, hereinafter referred to as “DISTRICT”, and the City of Las Vegas hereinafter referred to as “CITY”.

WITNESSETH

WHEREAS, pursuant to Chapter 543 of the Nevada Revised Statutes, the DISTRICT may approve a project to design and construct flood control improvements, and;

WHEREAS, the flood control improvements proposed herein are the same as those generally identified in the 2013 Master Plan Update as Facility Number LVMO 0000, hereinafter referred to as “PROJECT”; and

WHEREAS, the PROJECT is identified and shown on the attached Exhibit “A”; and

WHEREAS, the PROJECT has been approved by the DISTRICT on its Ten-Year Construction Program; and

WHEREAS, the PROJECT has regional flood control significance and is located in the same hydrographic area as the Las Vegas Valley.

NOW, THEREFORE, in consideration of the covenants, conditions, contracts, and promises of the parties hereto, the DISTRICT and the CITY agree to the following:

SECTION I - SCOPE OF THE PROJECT

This INTERLOCAL CONTRACT applies to construction and construction management associated with the LVW – Moccasin, Skye Canyon Park to Upper LVW project. The basic improvements shall consist of flood water facilities including pipes, channels, reinforced concrete box culverts, dikes, energy dissipators, channel structures, channel access and other appurtenances as may be necessary to control floodwaters. The improvements shall be funded through DISTRICT funds as herein described. This project is further identified and shown on the attached Exhibit “A”.

SECTION II - PROJECTS COSTS

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

1. Construction Management at a cost not to exceed \$1,007,057.

2. Construction at a cost not to exceed \$14,386,525.
3. The total cost of the contract shall not exceed \$15,393,582 which includes all of the items described in the paragraphs above.
4. If at any time during the term of this Contract the entity determines that a portion of the funds provided pursuant to this Contract, will not be needed for the project, then the entity will notify the District in writing of the amount of funds that are not anticipated to be used for the project. Upon receipt of said notification the District's obligation to pay the maximum amount set forth herein will automatically be reduced by the amount specified in the notification.
5. A written request must be made to the DISTRICT and approved by the Board to reallocate funds between phases of the project. No other approval by the Lead Entity is required.
6. A written request must be made to the DISTRICT and a Supplemental Interlocal Contract approved by the Board to increase the total cost of the contract noted above prior to payment of any additional funds.

SECTION III - GENERAL

1. The Clark County Regional Flood Control District shall be shown on the title sheet of both the plans and specifications as the funding agency.
2. The CITY will use its best efforts to award the bid for this project by February 1, 2019. Prior to submission of the first payment request, the Entity will submit to the DISTRICT a construction schedule and cash flow projection. The CITY will take all reasonable steps possible to avoid delays in the construction of DISTRICT funded projects. Project delays more than four months, as measured from the award date, may be subject to a formal review by both the Technical Advisory Committee and the District Board of Directors. At the review, the CITY will have an opportunity to present information relative to the delays, measures taken to avoid the delays and the likelihood of those delays continuing. The Board will make a determination, in view of the delays and limited available funding, whether project funding should continue. In the case that the Board chooses to discontinue funding, the Board may cancel any Interlocal Contract(s) associated with the project and discontinue funding for the remainder of the project. Funding already spent or appropriated by the CITY will not be required to be refunded to the DISTRICT. Project funding can be reconsidered at any time when the CITY can demonstrate that the project can proceed on an acceptable schedule.
3. The CITY will comply with the Local Purchasing Act, Chapter 332 and Public Works Projects, Chapter 338, of the Nevada Revised Statutes.

4. The CITY, its employees and representatives shall at all times comply with all applicable laws, ordinances, statutes, rules and regulations in effect at the time work is performed on the PROJECT.
5. The CITY will require appropriate financial security for the construction of the PROJECT.
6. The CITY shall provide all impacted entities and the DISTRICT with the opportunity to provide the CITY with input relative to the following processes: scope of services development; consultant selection; design, construction and maintenance review; and monitoring of the effectiveness and impacts of facilities on flood flows.
7. Applicable portions of the current editions of the Policies and Procedures, the Hydrologic Criteria and Drainage Design Manual and the Uniform Regulations for the Control of Drainage adopted by the DISTRICT will apply in developing this PROJECT unless specifically superseded by this CONTRACT.
8. Purchases of right-of-way in excess of that actually needed for construction will not be allowed unless a comparison between the cost of excess acquisition and needed acquisition, including damages, indicates that benefits from such a transaction would result. Title to residual property will be vested in the name of the CITY. Revenues derived from the sale of these properties, less the cost of the sale of these properties, will be forwarded to the DISTRICT.
9. Administrative settlements and acceptance of counter offers involving right-of-way may only be made following a review and approval by the DISTRICT.
10. The DISTRICT will pay the CITY, or make payment directly to its contractor or its consultant, each month for project costs as outlined in SECTION II – PROJECT COSTS. Invoices must identify and allocate all costs to the categories noted below:
 - a. Right-of-Way acquisition including appraisals, title and escrow, negotiations, legal fees, recording fees, etc.
 - b. Pre-design Engineering (all work prior to design, excluding right-of-way)
 - c. Design Engineering
 - d. Construction Engineering
 - e. Construction (all work after award of construction contract)
 - f. Environmental: Costs incurred by the Lead Entity for the preparation of environmental documentation applicable to the PROJECT and costs incurred for the implementation of mitigation measures provided in an environmental document (e.g., EIS or EA)

g. Other including landscaping, flood insurance rate map amendments or revisions, etc.

11. Accurate documentation of all work performed and payments made will be maintained by the CITY for a period of three (3) years in hard copy form after final PROJECT approval and payment. Following the three-year period, the CITY shall keep records for permanent storage in original form, in microfilm/fiche media or an electronic format.
12. The DISTRICT reserves the right to review and/or audit all records pertaining to all projects both during and after PROJECT completion.
13. Up to the limits set forth in NRS Chapter 41, the CITY will indemnify and defend the DISTRICT against and from any and all claims and demands of whatsoever nature which arises out of allegations of negligence or misconduct of CITY officers, employees or agents, related to or under this Contract which results from injury to or death of any persons whomsoever, or against and from damage to or loss or destruction of property.
14. Any costs found to be improperly allocated to this PROJECT will be refunded by the CITY to the DISTRICT.
15. The items covered in SECTION II - PROJECT COSTS must be completed to the satisfaction of the DISTRICT prior to January 31, 2021. The DISTRICT may, at any time thereafter, grant extensions or terminate this Contract after thirty (30) days notice.

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IN WITNESS WHEREOF, the Parties have caused this Interlocal Contract to be executed by their duly authorized representatives the day and year first above written.

Date of Council Action

Date of District Action

City of Las Vegas

Regional Flood Control District

By: _____
Carolyn G. Goodman, Mayor

By: _____
LAWRENCE L. BROWN, III,
Chairman

Attest

Attest

By: _____
LuAnn Holmes, MMC
City Clerk

By: _____
Sherry Allen
Secretary to the Board

Approved as to Form

Approved as to Form

By: _____
Deputy City Attorney Date

By: _____
Christopher Figgins Date
Chief Deputy District Attorney

LEGEND

—	Proposed CCRFCD Facility	N ↑
—	Future CCRFCD Facility	
- - -	Existing CCRFCD Facility	

MOCCASIN

LVMO 0000

EL CAPITAN

HOMESTEAD

SQUIRRELS NEST

LOG CABIN

N SKYE CANYON PARK

DURANGO

IRON MOUNTAIN



EXHIBIT A
LAS VEGAS WASH - MOCCASIN,
SKYE CANYON PARK TO UPPER LAS VEGAS WASH
 LAS31B18

SCALE: 1 INCH = 16,000 FT
 DRAWING NAME:
 Las Vegas Wash_Moccasin_SkyeCanyPk_UpperLW.MXD
 DRAWN BY: C. JONES
 DATE: 10/01/2018
 SHEET NUMBER 1 OF 1

**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

MASTER PLAN UPDATE FOR THE CITY OF BOULDER CITY

THIS IS A PUBLIC HEARING

RECOMMENDATION SUMMARY

STAFF:

Adopt and find that the Master Plan Update (MPU) is the most effective structural and regulatory means for correcting existing problems of flooding within the area and dealing with the probable effects of future development and adopt the MPU for the City of Boulder City as an amendment to the Master Plan. The MPU will not become effective until it is adopted as an amendment by the City of Boulder City.

TECHNICAL ADVISORY:

Follow staff recommendation.

CITIZENS ADVISORY:

Follow staff recommendation.

**RFCD AGENDA
ITEM #17
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT
AGENDA ITEM

SUBJECT:

MASTER PLAN UPDATE (MPU) FOR THE CITY OF BOULDER CITY

PETITIONER:

STEVEN C. PARRISH, P.E., GENERAL MANAGER/CHIEF ENGINEER

RECOMMENDATION OF PETITIONER:

THAT THE BOARD ADOPT THE FLOOD CONTROL MASTER PLAN UPDATE FOR THE CITY OF BOULDER CITY AS AN AMENDMENT TO THE MASTER PLAN AND FIND THAT THE MPU IS THE MOST COST EFFECTIVE STRUCTURAL AND REGULATORY MEANS FOR CORRECTING EXISTING PROBLEMS OF FLOODING WITHIN THE AREA AND DEALING WITH THE PROBABLE EFFECTS OF FUTURE DEVELOPMENT (FOR POSSIBLE ACTION)

FISCAL IMPACT: None.

BACKGROUND:

In accordance with Nevada Revised Statutes (NRS), NRS 543.596, the District is required to review its Master Plans every five years to add any new information relevant to the plan, assess progress toward fulfillment of the plan during the five-year period, identify any major obstacles to completion of the plan, and recommend amendments to the Master Plan.

On December 14, 2017, the District contracted with Atkins North America, Inc. to update the Master Plan for the City of Boulder City. This study was coordinated with representatives of the District and the Boulder City Department of Public Works, who were closely involved with the development of the Master Plan Update (MPU).

This study updated the Master Plan hydrology for Boulder City in conformance with the most current hydrologic practices and the District's *Hydrologic Criteria and Drainage Design Manual*. Completed flood control facilities were incorporated into the Plan, and proposed facilities were modified as necessary to complete the updated Plan.

TAC AGENDA ITEM #10 Date: 10/25/18	RFCD AGENDA ITEM # 17 Date: 11/08/18
CAC AGENDA ITEM #10 Date: 10/29/18	

The total plan recommended for the City of Boulder City in the 2018 MPU is estimated to cost approximately \$37,285,000. The total cost estimate presented in the 2013 plan was \$35,363,142. The following table shows the anticipated costs associated with the implementation of the master plan updated for 2018.

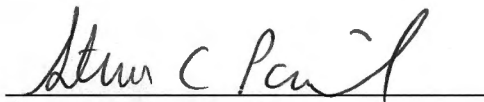
Estimated Construction Cost of Proposed Facilities

Watershed	Design and Administration	Land Acquisition	Construction Cost	2018 MPU Total Cost
Georgia Buchanan	\$ 1,585,000	\$0	\$ 7,927,000	\$ 9,512,000
Hemenway	\$ 575,000	\$0	\$ 2,922,000	\$ 3,496,000
North Railroad	\$ 48,000	\$0	\$ 242,000	\$ 290,000
West Airport	\$ 3,998,000	\$0	\$ 19,989,000	\$ 23,987,000
Energy Zone	\$ 0	\$0	\$ 0	\$ 0
Boulder City Total	\$ 6,206,000	\$0	\$ 31,080,000	\$ 37,285,000

A public notice has been issued to notify interested parties that a public hearing will be held to consider adoption of this amendment to the Master Plan. Copies of the Master Plan Update are available for review in the District office and at Boulder City’s City Hall. Upon finding that the MPU is the most cost effective structural and regulatory means for correcting existing problems of flooding within the area and dealing with the probable effects of future development (NRS 543.590), the MPU will be adopted by the Board. Upon adoption by the Board, the MPU will be forwarded to the affected governing body to be considered for adoption in accordance with NRS 543.597 (5,6). The MPU will not become effective until it is adopted as an amendment by the City of Boulder City.

Included in the backup is the Executive Summary from the Boulder City Master Plan Update.

Respectfully submitted,


 Steven C. Parrish, P.E.
 General Manager/Chief Engineer

TAC AGENDA ITEM #10 Date: 10/25/18	RFCD AGENDA ITEM # 17 Date: 11/08/18
CAC AGENDA ITEM #10 Date: 10/29/18	

Regional Flood Control District
AGENDA ITEM DEVELOPMENT

Staff Discussion:

Date: 10/15/18

MASTER PLAN UPDATE (MPU) FOR THE CITY OF BOULDER CITY

In accordance with Nevada Revised Statutes (NRS), NRS 543.596, the District is required to review its Master Plans every five years to add any new information relevant to the plan, assess progress toward fulfillment of the plan during the five-year period, identify any major obstacles to completion of the plan, and recommend amendments to the Master Plan.

On December 14, 2017, the District contracted with Atkins North America, Inc. to update the Master Plan for the City of Boulder City. This study was coordinated with representatives of the District and the Boulder City Department of Public Works, who were closely involved with the development of the Master Plan Update (MPU).

This study updated the Master Plan hydrology for Boulder City in conformance with the most current hydrologic practices and the District's *Hydrologic Criteria and Drainage Design Manual*. Completed flood control facilities were incorporated into the Plan, and proposed facilities were modified as necessary to complete the updated Plan.

The total plan recommended for the City of Boulder City in the 2018 MPU is estimated to cost approximately \$37,285,000. The total cost estimate presented in the 2013 plan was \$35,363,142. The following table shows the anticipated costs associated with the implementation of the master plan updated for 2018.

Estimated Construction Cost of Proposed Facilities

Watershed	Design and Administration	Land Acquisition	Construction Cost	2018 MPU Total Cost
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Hemenway	\$ 575,000	\$0	\$ 2,922,000	\$ 3,496,000
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Energy Zone	\$ 0	\$0	\$ 0	\$ 0
Boulder City Total	\$ 6,206,000	\$0	\$ 31,080,000	\$ 37,285,000

A public notice has been issued to notify interested parties that a public hearing will be held to consider adoption of this amendment to the Master Plan. Copies of the Master Plan Update are available for review in the District office and at Boulder City's City Hall. Upon finding that the MPU is the most cost effective structural and regulatory means for correcting existing problems of flooding within the area and dealing with the probable effects of future development (NRS 543.590), the MPU will be adopted by the Board. Upon adoption by the Board, the MPU will be forwarded to the affected governing body to be considered for adoption in accordance with NRS 543.597 (5,6). The MPU will not become effective until it is adopted as an amendment by the City of Boulder City.

Included in the backup is the Executive Summary from the Boulder City Master Plan Update.

Staff Recommendation:

Find that the Master Plan Update (MPU) is the most effective structural and regulatory means for correcting existing problems of flooding within the area and dealing with the probable effects of future development and adopt the MPU for the City of Boulder City as an amendment to the Master Plan. The MPU will not become effective until it is adopted as an amendment by the City of Boulder City.

Discussion by Technical Advisory Committee:

AGENDA
#10 Date: 10/25/18

Recommendation:

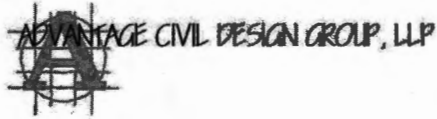
Follow staff recommendation.

Discussion by Citizens Advisory Committee:

AGENDA
#10 Date: 10/29/18

Recommendation:

Follow staff recommendation.

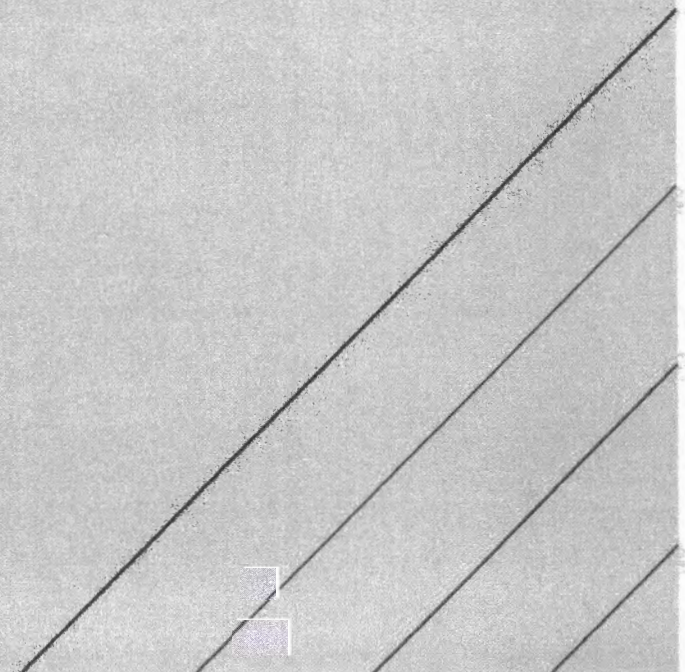


2018 Boulder City Flood Control Master Plan Update

Final Report

Clark County Regional Flood Control District

October 2018



Executive Summary

Introduction

The Clark County Regional Flood Control District (District) is responsible for developing and implementing a comprehensive flood control master plan to alleviate flooding in Clark County. Nevada Revised Statute (NRS) 543.596 requires that flood control master plans be reviewed and updated at least every five years. Previous Master Plan Updates (MPU) for Boulder City were prepared and adopted in 1990, 1998, 2003, 2008, and 2013. The 2018 MPU is a planning tool for use by public agencies, land planners, engineers, land owners, and various other entities.

Purpose

The purpose of the MPU is to add all new relevant information to the Master Plan, to assess progress toward fulfillment of the Master Plan during the five-year period, to identify obstacles to completing the Master Plan, and to recommend changes to the Master Plan resulting from growth and development. This document presents the results of the field investigation, data collection, hydrologic/hydraulic analyses, and cost estimate analyses that were completed during the development of the 2018 MPU.

Watershed Analysis

To facilitate the presentation of the information collected and developed for the 2018 MPU, the main study area in the northern (developed) portion of Boulder City has been subdivided into four watershed areas: (1) Hemenway Watershed, (2) Georgia Buchanan Watershed, (3) North Railroad Watershed, and (4) West Airport Watershed. These watershed areas are shown in **Figure ES-1**.

The 2018 MPU and previous MPUs are based on assumptions about future growth and development in Boulder City to represent the ultimate hydrologic condition and to aid in the planning and preliminary design of future flood control facilities. Soils information and land use data are used in conjunction with the 100-year frequency design rainfall event to develop hydrologic models that establish peak flow rates and flow volumes for drainage corridors. These peak flow rates and flow volumes are then used to size flood control facilities. The 100-year frequency flood event is defined as having a 1-percent chance of being equaled or exceeded in any given year.

The 2013 MPU updated cost information and incorporated any facilities that were constructed or Master Plan Amendments/changes since the 2008 MPU. However new hydrologic analysis was not performed with the 2013 MPU. This means that the 2008 MPU hydrologic models represent the most current MPU hydrologic models prior to the preparation of the 2018 MPU. The hydrologic models from the 2008 MPU were reviewed, updated, and revised as necessary to better represent the current hydrologic condition in the area. The 2018 MPU hydrologic modeling produced peak flow rates that generally were comparable to the peak flows estimates in the 2008 MPU. Differences in flow values can be attributed to updated soils data, modified subbasin boundaries, and a recategorization of land use categories to more closely align with categories used in the Master Plan for the Las Vegas Valley.

The Energy Zone refers to an area in Boulder City approximately twelve miles south of the US 93/95 Interchange. Boulder City allocated approximately 3,000 acres for the Energy Zone, which is mainly used to generate solar and gas-fired energy. This area was included in the 2008 MPU for planning purposes. The proposed facilities that had been included in the Energy Zone have been removed from the plan since developments in this area elected not to construct the regional facilities as planned, but instead opted to construct local facilities that do not meet the standards of regional flood control facilities. As a result, the Energy Zone Watershed was not analyzed as a part of the 2018 MPU and was removed from the Master Plan. All known existing local facilities within the Energy Zone have been included in a local facilities layer for future reference (**Figure 2-1**).

Master Plan Progress since 2013 MPU

Progress has been made on the implementation of the Flood Control Master Plan since the 2013 MPU through the construction of approximately 1.5 miles of flood control facilities. Flood control facilities that were constructed since the 2013 MPU in Boulder City are summarized by watershed below. Facilities that were under construction during the preparation of the 2013 MPU and considered as existing facilities in the 2013 MPU report are omitted from the list.

Hemenway Watershed

Since the 2013 MPU, significant progress has been made and is underway currently on the implementation of the Flood Control Master Plan in the Hemenway Watershed (**Figure ES-2**). This includes the construction of 2,800 feet of conveyance facilities, as described below:

- **HMWA 0175**—A 12-foot-wide by 4-foot-deep reinforced concrete box (RCB) culvert was installed at Lakeview Drive. This facility replaced the existing culvert crossing to convey the 100-year storm.
- **HMWA 0173, 0183**—A 4-foot-wide by 4-foot-deep concrete channel with a 2:1 side slope (SS) was constructed between Lakeview Drive and Katzenbach Drive to channelize and contain the 100-year event in this area. Upstream of Katzenbach Drive, concrete also was installed to reduce erosion and improve hydraulic efficiency.
- **HMWA 0182**—An 8-foot-wide by 4-foot-deep RCB was installed at Katzenbach Drive. This facility replaced the existing undersized culvert crossing to convey the 100-year storm.
- **HMWA 0158, 0162**—A 0.36 acre-foot (ac-ft) debris basin with a headwall, sediment gauge, and 24-inch reinforced concrete pipe (RCP) outlet was installed to limit the amount of sediment coming into the Hemenway Channel, which serves a dual-purpose as a bicycle path.
- **HMWA 0176**—The existing 10-foot-wide concrete channel with 2:1 SS was relocated and upsized to a depth of 3-feet to keep runoff away from the walking path next to the highway.
- **HMTH 0034**—A 6-foot-tall riprap-lined berm and 12-foot-wide maintenance access road were installed to divert runoff into the Trailhead Detention Basin.
- **HMLM 0066**—A 20-foot-wide by 6-foot-deep inline drop inlet was installed at the downstream end of channel HMLM 0065. The inlet was necessary to more fully use the capacity of HMLM 0064, a 60-inch concrete pipe, and to alleviate downstream roadway flooding.
- **HMLM 0085**—The existing debris basin has been enlarged to provide a total of 0.37 ac-ft of storage capacity. Further improvements include riprap erosion protection, gabion baskets for grade control, and a debris/drainage riser.

Georgia Buchanan Watershed

Most of the facility plan has been constructed in the Georgia Buchanan Watershed (**Figure ES-3**), consisting of approximately 6.22 miles of conveyance facilities built to date. Minor improvements since the 2013 MPU include the construction of 640 feet of conveyance facilities, as described below:

- **GBCM 0000**—450 feet of existing 54-inch RCP has been added as an MPU facility to the downstream end of the Cemetery Wash facilities between the cemetery and Utah Street. This extension was constructed with private funds to protect a new development.
- **GBBC 0000**—Seven existing 12-foot-wide by 4-foot-deep RCBs have been added to the MPU at the Interstate 11 (I-11) crossing for the Georgia and Buchanan flows. These were constructed with the I-11 project.
- **GBAP 0003**—Three existing 12-foot-wide by 4-foot-deep RCBs have been added to the MPU at the Interstate 11 (I-11) crossing for the East Airport flows. These were constructed with the I-11 project.

North Railroad Watershed

Significant progress has been made on the implementation of the Flood Control Master Plan in the North Railroad Watershed (**Figure ES-4**) since the 2013 MPU, including the expansion of North

Railroad Detention Basin. An additional 3,570 feet of conveyance facilities also have been constructed. Specific projects include:

- **NRBL 0100**—The stockpiled material has been removed from the Bootleg Canyon Detention Basin, making the current volume 185.5 ac-ft. This was previously identified as NRBL 0100 in the 2013 MPU and is no longer needed now that the work is done.
- **NRBL 0092, 0091**—The spillway of the Bootleg Canyon Detention Basin has been enhanced and the embankment raised. As a result, the clear water storage of the basin has increased from 95 ac-ft to 185.5 ac-ft.
- **NRIN 0064, 0074**—The unlined 8-foot-wide by 3-foot-deep 2:1 SS channel has been replaced with NRIN 0064 and 0074, a 42-inch RCP and 36-inch RCP, respectively. This downsize was due to the completion of the Industrial Road facilities and planned development adjacent to the channel.
- **NRIN 0107**—With the improvements to Canyon Road, two 24-inch RCPs were installed along the existing levee NRIN 0087. The road was cut through the existing levee and the culverts were installed to convey flows along the existing flow path. The culverts are sized to convey the 100-year flow and have been added to the 2018 MPU as existing regional facilities.
- **NRRR 0106**—The proposed 42-inch RCP along the railroad at the upstream end of the railroad facilities has been removed from the plan due to topography constraints that have made the installation of this facility infeasible.
- **NRCN 0000**—The previously shown 36-inch RCP just downstream of NRRR 0106 was not found during the construction of the railroad facilities. It was removed from the plan.

The facilities listed below are projects that are under construction currently. These facilities were treated as existing for this report.

- **NRIN 0010**—The expansion to North Railroad Detention Basin has been constructed to provide more storage capacity for the 100-year flow impacting the detention basin. The total volume of the expanded basin is 121.4 ac-ft.
- **NRIN 0031**—The existing unlined levee referred to as NRIN 0030 and shown to be undersized in the 2013 MPU has been removed from the plan, though it remains in place physically as an additional safety precaution. A 12-foot-wide by 4-foot to 7-foot-deep 2:1 SS concrete channel has been added to the MPU as existing facility NRIN 0031. This change was based on updated hydrology that showed increased flowrates reaching this facility.
- **NRIN 0054, 0057, 0062, 0080**—Parallel RCPs have been constructed along the west inflow to the North Railroad Detention Basin. The facilities match the size of the existing RCPs, which range from 48 inches to 60 inches in diameter. These additions to the plan were made to accommodate increased flow rates resulting from a hydrologic analysis of the upstream watershed.

West Airport Watershed

Minimal progress has been made on the implementation of the Flood Control Master Plan in the West Airport Watershed (**Figure ES-5**) since the 2013 MPU. A total of 350 feet of conveyance facilities have been constructed as a result of the I-11 project. Specific projects include:

- **WAAP 0035**—Four 12-foot-wide by 6-foot-deep reinforced concrete box culverts (RCBCs) under the newly developed I-11 corridor were constructed at the location of proposed linear regional facilities within the undeveloped area of the watershed.
- **WABB 0071**—Two 8-foot-wide by 6-foot-deep RCBCs under the newly developed I-11 corridor were constructed at the location of a proposed linear regional facility within the undeveloped area of the watershed.

Recommended Flood Control Plan

Modifications made to the 2018 MPU Flood Control Master Plan were based on the following:

- An evaluation of existing facility sizes and system connectivity with respect to minimum criteria for regional facility designations
- A review of known flooding issues throughout Boulder City
- Growth and development within Boulder City
- Identification of flood control facilities constructed since the 2013 MPU
- Updated soils and land use data and revised residential densities
- Revised subbasin boundaries
- Updated hydrologic models
- Revisions to facility sizes and alignments due to changes in flow rates and volumes generated from the updated hydrologic models
- Environmental considerations for areas with known environmentally sensitive issues

The recommended flood control plans for the Hemenway Watershed, Georgia Buchanan Watershed, North Railroad Watershed, and West Airport Watershed are summarized in **Figures ES-2, ES-3, ES-4, and ES-5**, respectively. Accompanying tables precede each figure and summarize the existing and proposed flood control facilities constituting the recommended Flood Control Master Plan for each watershed. These figures and tables are included at the end of this Executive Summary. Areas of the 2018 MPU recommended plan that have been modified since the 2013 MPU are described in **Sections 5-8**.

Cost Estimate

Approximately 30 miles of conveyance facilities are included in the 2018 MPU. Roughly 21 miles of these facilities already exist or are under construction; the remaining nine miles of proposed conveyance facilities have not been constructed.

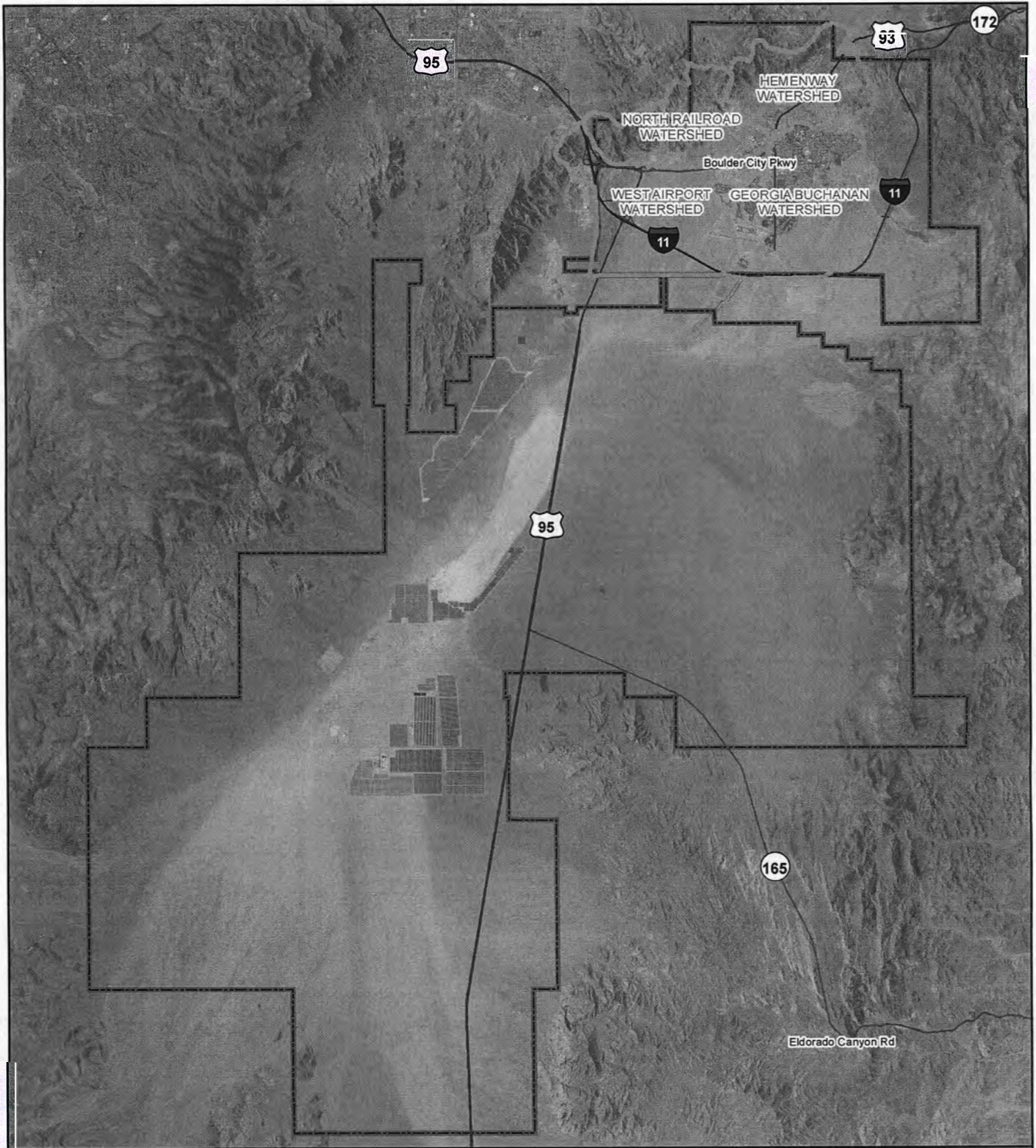
Cost estimates for all existing and proposed regional flood control facilities in the 2018 MPU have been derived using the updated District cost tool that was developed as part of the 2018 Las Vegas Valley MPU. The total estimated current value of existing flood control facilities in Boulder City is \$70.0 million. The total estimated cost of proposed facilities in Boulder City is \$37.2 million. The estimated costs are summarized in **Table ES-1**.

Table ES-1 Summary of Estimated 2018 Facility Costs



WATERSHED	EXISTING	PROPOSED		
	Total Value	Design & Admin Cost	Construction Cost	Total Cost
	(\$ x 1000)	(\$ x 1000)	(\$ x 1000)	(\$ x 1000)
GEORGIA BUCHANAN	\$17,476	\$1,585	\$7,927	\$9,512
HEMENWAY	\$22,238	\$574	\$2,922	\$3,496
NORTH RAILROAD	\$18,856	\$48	\$242	\$290
WEST AIRPORT	\$11,464	\$3,998	\$19,989	\$23,987
Total	\$70,034			\$37,285

In the 2013 MPU, the total estimated value of existing facilities was \$44.84 million. The total estimated cost of proposed facilities was \$35.36 million. The total costs have increased from the cost estimates provided in the 2013 MPU due to inflation, updated construction cost estimates, and the addition/modification of regional facilities in the Master Plan.

The 2018 MPU serves as a planning tool for the implementation of the flood control system in Boulder City. The flood control system identified and described in this MPU may be subject to further amendments and revisions in the future as more detailed analyses are completed for facilities in the pre-design and design phases.



Legend

-  Watersheds
-  Boulder City Limits

Service Layer Credits: USDA-FSA-APPO Aerial Photography Field Office

0 1.75 3.5 Miles 1 inch=3.5 miles



BOLDER CITY FLOOD CONTROL MASTER PLAN UPDATE FIGURE ES-1 BOLDER CITY VICINITY MAP

Prepared By: Atkins\GONS7997

Date: 9/28/2018



Hemenway Watershed Regional Flood Control Facilities

ID Mile	Status	Facility Description	Length (ft.)	Flow (cfs)	HEC-HMS Node	HEC-HMS Basin Model	Tributary Area (sq.mi.)	Channel Slope (%)
HM93		US 93 CULVERTS						
0027	E	2: 42" RCPC	140	53	LV7	HMWA	0.06	5.00
0040	E	12' X 3' RCBC	185	52	LV6	HMWA	0.05	4.00
0061	E	60" CMPC	160	52	LV6	HMWA	0.05	2.00
0071	E	36" CMPC	260	122	LV4	HMWA	0.12	8.64
0078	E	48" CMPC	320	122	LV4	HMWA	0.12	8.79
0083	E	36" CMPC	230	122	LV4	HMWA	0.12	6.00
0093	E	72" RCP	160	171	LV1	HMWA	0.22	3.63
0150	E	2: 36" CMPC	250	482	HM7	HMWA	0.32	4.00
HMFL		FOREST LANE STORM DRAIN						
0000	E	42" CMP	325	42	FL1	HMWA	0.05	5.00
HMKY		KEYS DRIVE CHANNEL						
0000	E	CONC CHNL 6.5'W 3'D 1:1 SS	100	80	KY4	HMWA	0.13	4.73
0019	E	UNLINED CHNL 10'W 4'D 0:1 SS	1140	96	KY1	HMWA	0.06	2.50
HMLM		LAKE MOUNTAIN DRIVE FACILITIES						
0000	E	1 AC-FT SEDIMENT BASIN		472	CLM6	HMWA	0.39	
0001	P	1 AC-FT LINED SEDIMENT BASIN		472	CLM6	HMWA	0.39	
0002	E	18" RCP OUTLET PIPE	20					1.00
0003	E	CONC CHNL 8'W 2.5'D 2:1 SS	1100	472	CLM6	HMWA	0.39	2.00
0025	E	2: 68" X 44" RCEPC @ VALENCIA	150	472	CLM6	HMWA	0.39	2.25
0027	E	CONC CHNL 8'W 2.5'D 2:1 SS	630	472	CLM6	HMWA	0.39	3.00
0040	E	60" RCP	200	425	CLM5	HMWA	0.30	3.30
0044	E	48" RCP	1200	343	CLM3	HMWA	0.23	6.50
0064	E	60" RCP	100	319	CLM2	HMWA	0.21	10.45
0065	E	CONC CHNL 10'W 5'D 2:1 SS	530	319	CLM2	HMWA	0.21	2.00
0066	E	20' X 6' GRATE INLET	20	319	CLM2	HMWA	0.21	2.00
0077	E	CONC CHNL 10'W 4'D 2:1 SS	980	24	LM1	HMWA	0.03	2.00
0081	E	55' CONCRETE/GABION SPILLWAY		2980		HMWA	0.18	
0082	E	24" RCP OUTLET PIPE	45					1.00
0085	E	0.37 AC-FT SEDIMENT BASIN		298	LM2	HMWA	0.18	
0096	E	CONC CHNL 4'W 3'D 2:1 SS	600	24	LM1	HMWA	0.03	2.00
HMLV		LAKE MEAD VIEW ESTATES FACILITIES						
0000	E	5' X 2' RCBC AND 30" RCPC @ VILLA GRANDE	80	227	LV8	HMWA	0.17	2.00
0001	E	12' X 8' RCBC	120	511	CLV4	HMWA	0.58	13.70
0003	E	CONC CHNL 14'W 4'D 2:1 SS	150	511	CLV4	HMWA	0.58	5.00
0004	P	ENERGY DISSIPATOR (REPLACES HMLV0005)	86	511	CLV4	HMWA	0.58	5.00
0005	E	GROUTED RIPRAP CHNL 14'W 3.6'D 2:1 SS (REPLACE W/ HMLV0006, 0004)	750	511	CLV4	HMWA	0.58	1.00
0006	P	72" RCP (REPLACES HMLV0005)	664	511	CLV4	HMWA	0.58	7.60
0018	E	UNLINED CHNL 14'W 10'D 0.5:1 SS	700	511	CLV4	HMWA	0.58	0.50
0031	E	78" RCP	825	441	CLV3	HMWA	0.47	0.45
0033	E	CONC CHNL 8'W 3'D 2:1 SS	128	171	LV1	HMWA	0.22	2.50
0055	E	72" RCP	292	171	LV1	HMWA	0.22	6.65
0060	E	60" RCP	1530	171	LV1	HMWA	0.22	5.30
0065	E	78" CMP	125	171	LV1	HMWA	0.22	5.00
HMNH		NEVADA HIGHWAY CULVERT						
0000	E	48" CMPC	160					8.24
0001	E	48" CMP	240					5.40
HMPC		PACIFICA WAY FACILITIES						
0000	E	36" RCPC	100	59	PC6	HMWA	0.09	0.50
0011	E	48" RCP	400	96	PC5	HMWA	0.06	1.25
0018	E	36" RCP	470	96	PC5	HMWA	0.06	4.00
0025	E	0.25 AC-FT SEDIMENT BASIN		96	PC5	HMWA	0.06	
0026	E	UNLINED CHNL 10'W 4'D 0:1 SS	425	96	PC5	HMWA	0.06	2.50
HMRB		ROBINSON LANE FACILITIES						
0000	E	UNLINED CHNL 10'W 2'D 0:1 SS	860	58	PC1	HMWA	0.03	0.40
HMTH		TRAILHEAD FACILITIES						
0000	E	CONC CHNL 6'W 5'D 2:1 SS	1350	383	THDB	HMWA	0.73	0.80
0025	E	35 AC-FT TRAILHEAD DETENTION BASIN		967	CTH1	HMWA	0.73	
0026	E	30' AND 70' CONCRETE EMERGENCY SPILLWAYS		1965		HMWA	0.73	
0027	E	42" RCP OUTLET PIPE (42" INLET, 48" OUTLET)	215	383	THDB	HMWA	0.73	1.00
0034	E	GROUTED RIPRAP LINED BERM 12' W 6'H 2:1 SS	1220	260	TH1	HMWA	0.23	3.18
0040	E	12' X 5' RCBC	25	703	CTH2	HMWA	0.47	10.00

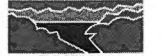
ID Mile	Status	Facility Description	Length (ft.)	Flow (cfs)	HEC-HMS Node	HEC-HMS Basin Model	Tributary Area (sq.mi.)	Channel Slope (%)
0041	E	CONC CHNL 6'W 5'D 2:1 SS	1280	703	CTH2	HMWA	0.47	5.33
0054	E	UNLINED LEVEE 6'HT 6'TW 2:1 SS	1000	260	TH1	HMWA	0.23	8.00
0064	E	RIPRAP CHNL 40'W 3'D 1:1 SS	650	476	TH3	HMWA	0.31	3.48
0076	E	RIPRAP LEVEE 14'TW 5'D 2:1 SS	400	476	TH3	HMWA	0.31	17.50
HMVL		VILLE DRIVE FACILITIES						
0000	E	22 AC-FT BASEBALL FIELD DETENTION BASIN		308	CVL5	HMWA	0.53	
0001	E	120' CONCRETE EMERGENCY SPILLWAY		3080		HMWA	0.53	
0002	E	36" RCP OUTLET PIPE	115	112	VLDB	HMWA	0.53	0.87
0003	E	CONC CHNL 12'W 4'D 0.75:1 SS	80	308	CVL5	HMWA	0.53	6.70
0004	E	GRASS CHNL 12'W 4'D 3:1 SS	750	308	CVL5	HMWA	0.53	3.00
0015	E	60" RCP	360	213	CDVL4	HMWA	0.42	3.37
0022	E	54" RCP	280	213	CDVL4	HMWA	0.42	4.20
0027	E	60" RCP	90	213	CDVL4	HMWA	0.42	4.30
0028	E	CONC CHNL 10'W 4'D 1.75:1 SS	160	213	CDVL4	HMWA	0.42	2.00
0030	E	RIPRAP CHNL W/CONC DROP 10'W 5'D 2:1 SS	500	213	CDVL4	HMWA	0.42	1.10
0041	E	42" RCP OUTLET PIPE	1300	160	AWSB	HMWA	0.34	4.80
0042	E	48" RCP	700	205	CVL4	HMWA	0.40	6.13
0058	E	CONC CHNL 15'W 2'D 0:1 SS	350	568	CVL3	HMWA	0.34	5.93
0064	E	21 AC-FT AARON WAY DETENTION BASIN		568	CVL3	HMWA	0.34	
0065	E	15' CONCRETE EMERGENCY SPILLWAY		3174		HMWA	0.34	
0066	E	CONC CHNL 4'W 4'D 2:1 SS	400	164	CVL2	HMWA	0.10	2.00
0074	E	CONC CHNL 4'W 3'D 2:1 SS	775	164	CVL2	HMWA	0.10	2.00
0088	E	RIPRAP LEVEE 10'TW 6'D 2:1 SS	260	146	VL1	HMWA	0.08	4.00
HMWA		HEMENWAY CHANNEL						
0000	E	ENERGY DISSIPATOR	200	2401	CHM9	HMWA	3.53	
0001	P	24" RCP OUTLET PIPE	100					6.00
0004	E	CONC CHNL 14'W 3'D 4:1 SS (REPLACE W/ HMWA0005)	450	2401	CHM9	HMWA	3.53	3.00
0005	P	CONC CHNL 16'W 6'D 4:1 SS (REPLACES HMWA0004)	450	2401	CHM9	HMWA	3.53	3.00
0012	E	14' X 8' RCBC @ PACIFICA	66	2401	CHM9	HMWA	3.53	5.35
0013	E	CONC CHNL 14'W 4.5'D 0:1 SS - 10:1 SS	3000	2401	CHM9	HMWA	3.53	4.59
0068	E	12' X 8' RCBC @ VILLE	100	1800	CHM8	HMWA	2.25	4.75
0069	E	CONC CHNL 12'W 4'D 0:1 - 10:1 SS	1800	1800	CHM8	HMWA	2.25	4.69
0087	E	12' X 8' RCBC @ NEVADA WAY	150	482	HM7	HMWA	0.32	3.95
0103	E	12' X 8' RCBC @ LAKE MOUNTAIN	100	1251	2CHM6	HMWA	1.66	3.06
0104	E	CONC CHNL 12'W 2.5'D 0:1 - 4:1 SS (REPLACE W/ HMWA0105)	1120	789	CHM6	HMWA	1.24	5.05
0105	P	CONC CHNL 12'W 5'D 0:1 - 4:1 SS (REPLACES HMWA0104)	1120	789	CHM6	HMWA	1.24	5.05
0126	E	12' X 4' RCBC @ ST JUDES	35	789	CHM6	HMWA	1.24	4.17
0127	E	CONC CHNL 12'W 2.5'D 0:1 - 4:1 SS	1100	789	CHM6	HMWA	1.24	4.98
0147	E	12' X 4' RCBC @ INCARNATION	35	706	2CFL1	HMWA	1.17	3.38
0148	E	CONC CHNL 10'W 5'D 2:1 SS	600	606	CFL1	HMWA	0.45	3.38
0154	E	12' X 8' RCBC	150	175	CHM5	HMWA	0.10	1.48
0155	E	CONC CHNL 10'W 1.5'D 1.33:1 SS	165	175	CHM5	HMWA	0.10	3.01
0156	E	CONC CHNL 9'W 2'D 1.5:1 SS	85	42	FL1	HMWA	0.05	7.00
0157	E	CONC CHNL 9'W 2'D 1.5:1 SS	100	42	FL1	HMWA	0.05	7.00
0158	E	0.36 AC-FT SEDIMENT BASIN		175	CHM5	HMWA	0.10	
0159	E	FREE SPAN BRIDGE	35	606	CFL1	HMWA	0.45	3.90
0160	E	42" CMP	70	42	FL1	HMWA	0.05	5.00
0161	E	CONC CHNL 6'W 5'D 2:1 SS	600	606	CFL1	HMWA	0.45	3.90
0162	E	24" RCP OUTLET PIPE	117					1.78
0173	E	CONC CHNL 4'W 4'D 2:1 SS	335	384	CHM2	HMWA	0.27	3.24
0175	E	12' X 4' RCBC @ LAKEVIEW	84	408	CHM4	HMWA	0.30	4.45
0176	E	CONC CHNL 10'W 3'D 2:1 SS	800	175	CHM5	HMWA	0.10	5.59
0177	E	CONC CHNL 10'W 1.5'D 1.33:1 SS	550	137	CHM1	HMWA	0.08	3.17
0178	E	68" X 44" RCEPC	58	261	HM3	HMWA	0.20	3.17
0182	E	8' X 4' RCBC @ KATZENBACH	72	129	HM2	HMWA	0.08	3.40
0183	E	CONC CHNL 4'W 4'D 2:1 SS	118	129	HM2	HMWA	0.08	6.14
0184	E	68" X 44" RCEPC	50	129	HM2	HMWA	0.08	3.17
0185	E	2' 24" CMPC @ COLORADO	69	137	CHM1	HMWA	0.08	3.17
0200	P	GROUTED RR CHNL 4'W 5.5'D 2:1 SS	70	261	HM3	HMWA	0.20	4.20
0201	P	24" RCP OUTLET PIPE	24					1.10
0202	P	0.43 AC-FT SEDIMENT BASIN		261	HM3	HMWA	0.20	
0203	P	2' 49" X 32" HERCP	60	261	HM3	HMWA	0.20	2.70

Georgia Buchanan Watershed Regional Flood Control Facilities

ID Mile	Status	Facility Description	Length (ft.)	Flow (cfs)	HEC-HMS Node	HEC-HMS Basin Model	Tributary Area (sq.mi.)	Channel Slope (%)
GBAP								
EAST AIRPORT FACILITIES								
0000	E	SOIL CEMENT CHNL 8'W 3'D 4:1 SS	2730	477	CAP4	GEBU	1.28	2.40
0001	E	SOIL CEMENT CHNL 8'W 5'D 3:1 SS	1593	477	CAP4	GEBU	1.28	1.70
0002	P	SOIL CEMENT CHNL 8'W 5'D 3:1 SS	2500	477	CAP4	GEBU	1.28	2.60
0003	E	3: 12' X 4' RCBC	170	477	CAP4	GEBU	1.28	1.53
0047	E	10' X 5' RCBC	165	119	CAP3	GEBU	0.87	0.50
0048	E	CONC CHNL 8'W 4.5'D 2:1 SS & 4:1 SS	2305	97	CAP2	GEBU	0.66	0.61
0049	E	CONC CHNL 10'W 4.5'D 4:1 SS	100	119	CAP3	GEBU	0.87	0.25
0087	E	48" RCP	700	39	CAP1	GEBU	0.32	0.68
0114	E	42" RCP	430	12	AP1A	GEBU	0.07	0.68
GBBC								
BUCHANAN BOULEVARD FACILITIES								
0000	E	7: 12' X 4' RCBC @ I-11	190	2104	CGR7	GEBU	2.82	1.61
0005	P	SOIL CEMENT CHNL 14' W 6.5' D	3190	1978	CGR6	GEBU	2.23	3.00
0015	E	3: 12' X 10' RCBC @ BUCHANAN	237	1978	CGR6	GEBU	2.23	2.00
0020	P	CONC CHNL 12'W 5.5'D 3:1 SS	1750	1978	CGR6	GEBU	2.23	2.30
0030	E	FREE SPAN BRIDGE @ GEORGIA AVE	100	544	CBC5	GEBU	0.77	2.70
0031	E	CONC CHNL 8'W 3.25'D 2:1 SS	850	544	CBC5	GEBU	0.77	2.70
0047	E	FREE SPAN BRIDGE @ ROYAL BIRKDALE DR	65	544	CBC5	GEBU	0.77	3.15
0048	E	CONC CHNL 8'W 3.25'D 2:1 SS	730	544	CBC5	GEBU	0.77	3.05
0062	E	2: 6' X 5' RCBC @ BROADMOOR	90	544	CBC5	GEBU	0.77	3.05
0063	E	CONC CHNL 8'W 3.25'D 2:1 SS	2365	544	CBC5	GEBU	0.77	2.88
0109	E	CONC CHNL 8'W 3.25'D 2:1 SS	2050	522	CBC4B	GEBU	0.53	3.07
0110	E	14' X 4' RCBC @ CLUBHOUSE	58	522	CBC4B	GEBU	0.53	2.56
0146	E	2: 18" RCP	130	32	BC4B	GEBU	0.03	1.00
0149	E	14' X 4' RCBC @ EL CAMINO	70	511	CBC1	GEBU	0.49	3.00
0150	E	CONC CHNL 8'W 3.25'D 2:1 SS	122	511	CBC1	GEBU	0.49	2.75
0152	E	CONC CHNL 7'W 4.5'D 1:1 RSS 0:1 LSS	300	282	BC1	GEBU	0.31	4.00
0153	E	54" RCP	440	291	CBC4A	GEBU	0.19	3.35
0155	E	48" RCP	985	291	CBC4A	GEBU	0.19	3.35
0157	E	CONC CHNL 6'W 4.5'D 1:1 SS	750	282	BC1	GEBU	0.31	4.00
0172	E	CONC CHNL 6'W 3'D 1.5:1 SS	1300	282	BC1	GEBU	0.31	2.60
GBCM								
CEMETARY WASH FACILITIES								
0000	E	54" RCP	451	408	CCM1	GEBU	0.52	3.76
0001	E	51" RCP	175	408	CCM1	GEBU	0.52	3.93
0004	E	48" RCP	415	408	CCM1	GEBU	0.52	1.34
0011	E	42" RCP	450	408	CCM1	GEBU	0.52	1.09
GBGR								
GEORGIA AVENUE FACILITIES								
0002	E	NATURAL WASH	1900	1581	CGR4	GEBU	1.29	2.50
0003	P	CONC CHNL 8'W 6.5'D 2:1 SS	1150	1581	CGR4	GEBU	1.29	1.40
0036	E	ENERGY DISSIPATOR/DROP STRUCTURE		1581	CGR4	GEBU	1.29	
0040	E	CONC CHNL 8'W 4'D 2:1 SS	3100	1581	CGR4	GEBU	1.29	2.20
0099	P	FREE SPAN BRIDGE @ VAQUERO	60	1568	CGR2	GEBU	1.21	2.12
0100	E	CONC CHNL 8'W 4'D 2:1 SS	600	1568	CGR2	GEBU	1.21	2.12
0111	E	2: 10' X 3.17' RCBC @ MENDOTA	42	1568	CGR2	GEBU	1.21	2.12
0112	E	CONC CHNL 4'W 4'D 2:1 SS	700	1568	CGR2	GEBU	1.21	2.30
0126	E	CONC CHNL 8'W 4'D 2:1 SS	230	1568	CGR2	GEBU	1.21	2.30
0130	E	FREE SPAN BRIDGE @ FAIRWAY	55	1568	CGR2	GEBU	1.21	2.24
0131	E	CONC CHNL 8'W 4'D 2:1 SS	3000	1568	CGR2	GEBU	1.21	2.24
0188	E	60" RCP (REPLACE W/ GBGR0189)	830	781	CGR1B	GEBU	0.52	1.29
0189	P	2: 78" RCP (REPLACES GBGR0188)	830	781	CGR1B	GEBU	0.52	1.29
0203	E	54" RCP (REPLACE W/ GBGR0204)	650	781	CGR1B	GEBU	0.52	1.47
0204	P	2: 78" RCP (REPLACES GBGR0203)	650	781	CGR1B	GEBU	0.52	1.47
0215	E	48" RCP (REPLACE W/ GBGR0216)	85	781	CGR1B	GEBU	0.52	1.00
0216	P	2: 78" RCP (REPLACES GBGR0215)	85	781	CGR1B	GEBU	0.52	1.00
0217	E	36" RCP (REPLACE W/ GBGR0218)	1320	516	CGR1A	GEBU	0.33	2.80
0218	P	78" RCP (REPLACES GBGR0217)	1000	516	CGR1A	GEBU	0.33	2.80
0302	P	66" RCP	838	194	GR1A	GEBU	0.12	0.80



REGIONAL FLOOD CONTROL DISTRICT

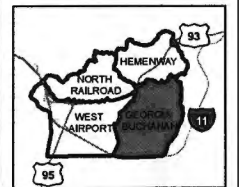


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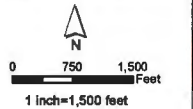
FIGURE ES-3. REGIONAL FLOOD CONTROL FACILITIES GEORGIA BUCHANAN WATERSHED

Legend

- Boulder City Limits
- Watersheds
- Existing Facilities
- Proposed Facilities
- Local Facilities
- Detention Basin
- ID-Mile Separator
- Stormdrain
- Lined Channel
- Unlined Channel
- Natural Wash / Floodway
- Stormdrain - Replace



Aerial Imagery Source: Clark County 2017



North Railroad Watershed Regional Flood Control Facilities

ID Mile	Status	Facility Description	Length (ft.)	Flow (cfs)	HEC-HMS Node	HEC-HMS Basin Model	Tributary Area (sq.mi.)	Channel Slope (%)
NRBL BOOTLEG CANYON FACILITIES								
0000	E	24" RCP	1458	25	BLDB	NRWA	0.74	5.10
0091	E	185.5 AC-FT BOOTLEG CANYON DETENTION BASIN		989	BL1	NRWA	0.74	
0092	E	350' RIPRAP EMERGENCY SPILLWAY		10434		NRWA	0.74	
0093	E	24" RCP OUTLET PIPE	836	25	BLDB	NRWA	0.74	4.30
0094	E	UNLINED LEVEE 4'HT 40'TW 4:1 SS	250					4.70
0095	E	2: 36" CMP CULVERT	112					1.79
0096	E	24" RCP	161	25	BLDB	NRWA	0.74	5.60
NRIN INDUSTRIAL ROAD FACILITIES								
0003	E	9,500 CFS PMF AT-GRADE SPILLWAY		9500		NRWA	2.09	
0004	E	30" RCP OUTLET PIPE	215	82	RRDB	NRWA	2.09	0.64
0010	E	121.4 AC-FT NORTH RAILROAD DETENTION BASIN		1455	2CNR10A	NRWA		
0013	E	CONC CHNL 18'W 4'D 0:1 SS	220	194	2CNR11C	NRWA	1.02	1.88
0017	E	66" RCP	764	194	2CNR11C	NRWA	1.02	3.58
0025	E	UNLINED CHNL 15'W 4'D 3:1 SS	1000	363	NR10	NRWA	0.30	0.67
0031	E	CONC CHNL 12'W 4-7'D 2:1 AND 0:1 SS	1200	572	CNR9-1	NRWA	0.41	2.00
0032	E	12' X 6' RCB	198	194	2CNR11C	NRWA	1.02	9.44
0038	E	8' X 6' RCB	200	194	2CNR11C	NRWA	1.02	2.05
0040	E	CONC CHNL 8'W 4'D 2:1 SS	1103	118	CNR11C	NRWA	0.95	4.00
0044	E	UNLINED CHNL 8'W 3'D 2:1 SS	1000	84	CNR11D	NRWA	0.07	0.67
0052	E	54" RCP	209	286 [^]	CNR9-1 [^]	NRWA	0.41	1.79
0053	E	CONC CHNL 16'W 4'D 0:1 SS	90	1195	CNR10A	NRWA	1.82	1.00
0054	E	54" RCP	209	286 [^]	CNR9-1 [^]	NRWA	0.41	1.79
0055	E	60" RCP	700	363	NR10	NRWA	0.30	3.12
0056	E	48" RCP	562	286 [^]	CNR9-1 [^]	NRWA	0.41	5.40
0057	E	48" RCP	539	286 [^]	CNR9-1 [^]	NRWA	0.41	5.70
0062	E	54" RCP	176	286 [^]	CNR9-1 [^]	NRWA	0.41	4.04
0063	E	10' X 4' RCBC @ YUCCA	75	75	NR11B	NRWA	0.05	0.67
0064	E	42" RCP	552	75	NR11B	NRWA	0.05	0.40
0065	E	8' X 4' RCBC @ YUCCA	80	63	NR11A	NRWA	0.10	1.40
0066	E	1 AC-FT SEDIMENT DETENTION BASIN		63	NR11A	NRWA	0.10	
0067	E	CONC CHNL 8'W 3.5'D 2:1 SS	772	63	NR11A	NRWA	0.10	2.70
0068	E	54" RCP	158	286 [^]	CNR9-1 [^]	NRWA	0.41	4.20
0069	E	60" RCP	118	286 [^]	CNR9-1 [^]	NRWA	0.41	2.07
0070	E	12' X 6' RCB	150	363	NR10	NRWA	0.30	10.00
0071	E	60" RCP	112	363	NR10	NRWA	0.30	6.81
0074	E	36" RCP	310	75	NR11B	NRWA	0.05	0.49
0075	E	60" RCP	118	286 [^]	CNR9-1 [^]	NRWA	0.41	2.00
0080	E	2: 60" RCP	116	572	CNR9-1	NRWA	0.41	2.00
0087	E	UNLINED LEVEE 8'HT 10'TW 2:1 SS (REPLACE W/ NRIN0088)	1000	63	NR11A	NRWA	0.10	1.30
0088	P	ADD RIPRAP LINING TO EXISTING LEVEE 8'HT 10'TW 2:1 SS (REPLACES NRIN0087)	1000	63	NR11A	NRWA	0.10	1.30
0107	E	2: 24" RCP	62	63	NR11A	NRWA	0.10	1.50
NRRR RAILROAD FACILITIES								
0000	E	CONC CHNL 10'W 5'D 0:1 SS	2610	374	CAD5B	NRWA	0.27	1.00
0049	E	10' X 5' RCBC @ YUCCA	65	284	CAD5A	NRWA	0.19	0.31
0050	E	CONC CHNL 8'W 6'D 0:1 SS	1912	284	CAD5A	NRWA	0.19	0.31
0070	E	54" RCP	700	161	CAD1C	NRWA	0.10	0.31
0089	E	48" RCP	290	161	CAD1C	NRWA	0.10	0.31
0105	E	4' x 3' RCB	52	161	CAD1C	NRWA	0.10	0.31

[^] For parallel facilities, the existing facility flow equals its normal depth capacity, and the proposed facility flow equals the remaining flow



REGIONAL FLOOD CONTROL DISTRICT

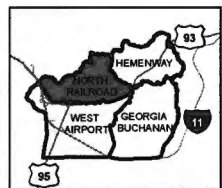


BOULDER CITY FLOOD CONTROL MASTER PLAN UPDATE

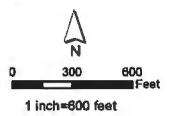
FIGURE ES-4. REGIONAL FLOOD CONTROL FACILITIES NORTH RAILROAD WATERSHED

Legend

- Boulder City Limits
- Watersheds
- Existing Facilities
- Proposed Facilities
- Local Facilities
- Detention Basin
- ID-Mile Separator
- Stormdrain
- Lined Channel
- Unlined Channel
- Dike
- Dike - Replace

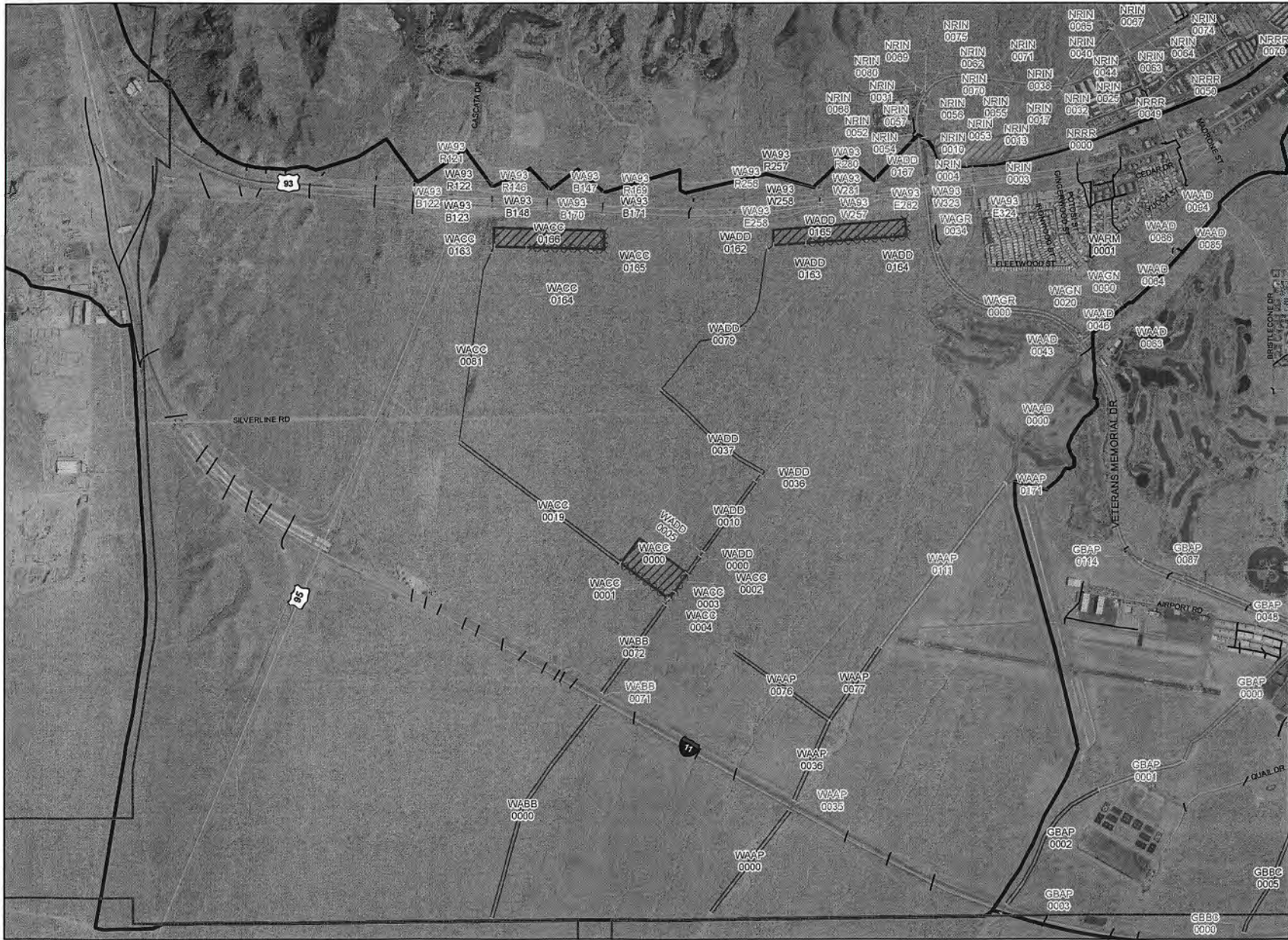


Aerial Imagery Source: Clark County 2017



West Airport Watershed Regional Flood Control Facilities

ID Mile	Status	Facility Description	Length (ft.)	Flow (cfs)	HEC-HMS Node	HEC-HMS Basin Model	Tributary Area (sq.mi.)	Channel Slope (%)
INDUSTRIAL ROAD FACILITIES								
NRIN								
0004	E	30" RCP OUTLET PIPE	215	82	RRDB	NRWA	2.09	0.64
US ROUTE 93/RAILROAD CULVERTS								
WA93								
B122	E	36" RCP (REPLACE W/ WA93 B123)	170	308	NR4			3.00
B123	P	8' X 5' RCBC (REPLACES WA93B122)	170	356	NR4	NRWA	0.29	3.00
B147	E	36" RCP (REPLACE W/ WA93 B148)	170	244	NR5			3.00
B148	P	8' X 4' RCBC (REPLACES WA93B147)	170	234	NR5	NRWA	0.18	3.00
B170	E	48" RCP (REPLACE W/ WA93B171)	170	503	NR6			3.00
B171	P	8' X 5' RCBC (REPLACES WA93B170)	170	528	NR6	NRWA	0.40	3.00
E258	E	7' X 3' RCBC	70	200	NR8B	NRWA	0.12	3.00
E282	E	5' X 3' RCBC	70	86	NR9-2	NRWA	0.04	3.00
E324	E	7' X 3' RCB	70	82	RRDB	NRWA	2.09	4.00
R121	E	48" CMP (REPLACE W/ WA93R122)	80	308	NR4			3.00
R122	P	3: 60" RCPC (REPLACE WA93R121)	80	356	NR4	NRWA	0.29	4.00
R146	E	2: 54" CMPC	80	234	NR5	NRWA	0.18	3.00
R169	E	2: 60" CMPC	80	528	NR6	NRWA	0.40	3.00
R256	E	2: 54" CMP (REPLACE W/ WA93R257)	80	508	NR8			3.00
R257	P	54" RCP (REPLACES WA93R256)	80	200	NR8B	NRWA	0.12	3.00
R280	E	60" CMPC	80	86	NR9-2	NRWA	0.04	3.00
W257	E	2: 36" X 54" CMEP (REPLACE W/ WA93W258)	80	508	NR8			3.00
W258	P	54" RCP (REPLACES WA93W257)	70	200	NR8B	NRWA	0.12	3.00
W281	E	2: 48" X 36" CMEPC	80	86	NR9-2	NRWA	0.04	4.00
W323	E	2: 36" X 54" CMEPC	80	82	RRDB	NRWA	2.09	4.00
ADAMS BOULEVARD FACILITIES								
WAAD								
0000	E	GRASS CHNL 20' - 40'W 3'D - 5'D 4:1 SS	2480	645	CAD14	NRWA	2.88	3.70
0043	E	14' X 8' RCBC	245	636	2CAD13	NRWA	2.59	2.50
0046	E	CONC CHNL 8.2'W 4.6'D 2:1 SS	790	386	2CAD8	NRWA	0.30	2.88
0063	E	6' X 5' RCB	85	229	2CAD3	NRWA	0.18	2.79
0064	E	66" RCP	1130	229	2CAD3	NRWA	0.18	2.38
0085	E	6' X 5' RCB	155	229	2CAD3	NRWA	0.18	3.13
0086	E	48" RCP	521	229	2CAD3	NRWA	0.18	3.75
0094	E	48" RCP	735	122	CAD2	NRWA	0.09	2.70
WEST AIRPORT FACILITIES								
WAAP								
0000	P	CONC CHNL 12'W 5'D 1:1 SS	1850	1182	CWA12	NRWA	3.76	2.40
0035	E	4: 12' X 6' RCBC @ I-11	180	1182	CWA12	NRWA	3.76	2.01
0036	P	CONC CHNL 10'W 5'D 1:1 SS	1500	1014	2CAD17	NRWA	3.49	3.00
0076	P	CONC CHNL 8'W 3.5'D 2:1 SS	1900	262	CAD17	NRWA	0.47	0.56
0077	P	CONC CHNL 10'W 4.5'D 1:1 SS	1450	796	CAD15	NRWA	3.02	4.00
0111	E	CONC CHNL 8'W 4'D 3:1 SS	3400	796	CAD15	NRWA	3.02	3.00
0171	E	RIPRAP CHNL (SOUTH SIDE ONLY) 10'W 6'D 2:1 SS	750	51	AD14	NRWA	0.29	3.50
BB FACILITIES								
WABB								
0000	P	CONC CHNL 15'W 5'D 1:1 SS	4000	1151	CWA11	NRWA	4.08	1.40
0071	E	2: 8' X 6' RCBC @ I-11	174	652	CWA9	NRWA	3.47	2.04
0072	P	CONC CHNL 8'W 4.5'D 1:1 SS	1757	652	CWA9	NRWA	3.47	3.50
CC FACILITIES								
WACC								
0000	P	125 AC-FT DETENTION BASIN		1016	2CWA6	NRWA	3.01	
0001	P	UNLINED LEVEE 10'TW 10'D 3:1 SS	1000	722	CWA6	NRWA	1.64	1.50
0002	P	UNLINED LEVEE 5'HT 10'TW 3:1 SS	400	404	CWA7	NRWA	1.37	4.00
0003	P	14,580 CFS PMF SPILLWAY		14580		NRWA	3.01	
0004	P	2: 48" RCP OUTLET PIPES	100	219	DETB3	NRWA	3.01	4.00
0019	P	CONC CHNL 9'W 5'D 1:1 SS	3300	722	CWA6	NRWA	1.64	1.80
0081	P	48" RCP	3250	209	CWA5	NRWA	0.99	5.40
0163	P	36" RCP OUTLET PIPE	100	83	DETB1	NRWA	0.86	5.40
0164	P	12,940 CFS PMF SPILLWAY		12940		NRWA	0.86	
0165	P	UNLINED LEVEE 10'TW 10'D 3:1 SS	1900	1085	CDB1	NRWA	0.86	1.20
0166	P	105 AC-FT DETENTION BASIN		1085	CDB1	NRWA	0.86	
DD FACILITIES								
WADD								
0000	P	CONC CHNL 10'W 4'D 1:1 SS	335	404	CWA7	NRWA	1.37	1.80
0005	P	4: 8' X 4' RCBC	95	404	CWA7	NRWA	1.37	1.80
0010	P	CONC CHNL 10'W 3.5'D 1:1 SS	1425	404	CWA7	NRWA	1.37	1.80
0036	P	4: 8' X 3' RCBC	80	210	CWA8	NRWA	1.02	1.80
0037	P	CONC CHNL 8'W 3'D 1:1 SS	2200	210	CWA8	NRWA	1.02	2.50
0079	P	36" RCP	3200	65	DETB2	NRWA	0.64	5.00
0162	P	36" RCP OUTLET PIPE	100	65	DETB2	NRWA	0.64	5.70
0163	P	12,770 CFS PMF SPILLWAY		12700		NRWA	0.64	
0164	P	UNLINED LEVEE 10'TW 10'D 3:1 SS	2000	803	CDB2	NRWA	0.64	1.20
0165	P	110 AC-FT DETENTION BASIN		803	CDB2	NRWA	0.64	
0167	E	2: 36" RCPC	150					0.67
GINGERWOOD STREET FACILITIES								
WAGN								
0000	E	CONC CHNL 8'W 3'D 2:1 SS	740	170	CAD8	NRWA	0.12	3.00
0020	E	6' X 5' RCBC	118	170	CAD8	NRWA	0.12	1.21
GEORGIA ROAD								
WAGR								
0000	E	CONC CHNL 12'W 2.5'D 0:1 LSS 4:1 RSS	3000	294	CAD13	NRWA	2.29	0.60
0034	E	42" RCP	1180	157	CAD11	NRWA	2.18	4.46
RED MOUNTAIN DRIVE FACILITIES								
WARM								
0001	P	36" RCP	650	36	AD6	NRWA	0.02	2.75



REGIONAL FLOOD CONTROL DISTRICT

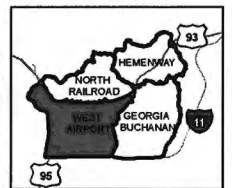


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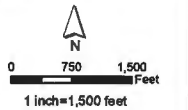
FIGURE ES-5. REGIONAL FLOOD CONTROL FACILITIES WEST AIRPORT WATERSHED

Legend

- Boulder City Limits
- Watersheds
- Existing Facilities
- Proposed Facilities
- Local Facilities
- Detention Basin
- ID-Mile Separator
- Stormdrain
- Lined Channel
- Unlined Channel
- Natural Wash / Floodway
- Dike
- Stormdrain - Replace



Aerial Imagery Source: Clark County 2017



**CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT**

AGENDA ITEM

SUBJECT:

**APPOINT COMMITTEE TO EVALUATE THE PERFORMANCE OF THE GENERAL
MANAGER – 2018 REVIEW**

RECOMMENDATION SUMMARY

STAFF: Appoint committee.

TECHNICAL ADVISORY: The Technical Advisory Committee did not hear this item.

CITIZENS ADVISORY: The Citizens Advisory Committee did not hear this item.

**RFCD AGENDA
ITEM #18
DATE: 11/08/18**

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT

AGENDA ITEM

SUBJECT:

DISCUSSION AND POSSIBLE ACTION TO APPOINT A COMMITTEE TO EVALUATE THE PERFORMANCE OF THE GENERAL MANAGER – 2018 REVIEW

PETITIONER:

STEVEN C. PARRISH, P.E., GENERAL MANAGER/CHIEF ENGINEER

RECOMMENDATION OF PETITIONER:

THAT THE BOARD CONSIDER THE APPOINTMENT OF A COMMITTEE (FOR POSSIBLE ACTION)


FISCAL IMPACT:

None.

BACKGROUND:

It is the policy of the Board to evaluate the performance of the General Manager. In keeping with the Board's past practice, it is recommended that the Board consider appointing a committee of its members to review the General Manager's performance for 2018 and to recommend goals and objectives for 2019. The committee's recommendations will be presented to the Board for consideration.

Respectfully submitted,



Steven C. Parrish, P.E.
General Manager/Chief Engineer

RFCD AGENDA
ITEM #18
Date: 11/08/18

19. **Comments By the General Public**

A period devoted to comments by the general public about matters relevant to the Regional Flood Control District Board of Directors jurisdiction will be held. No vote may be taken on a matter not listed on the posted agenda. Comments will be limited to three minutes. Please step up to the speaker's podium, clearly state your name and address and please **spell** your last name for the record. If any member of the Regional Flood Control District Board of Directors wishes to extend the length of a presentation, this will be done by the Chairman, or the Regional Flood Control District Board of Directors by majority vote.

All comments by speakers should be relevant to the Regional Flood Control District Board of Directors action and jurisdiction.