

REGIONAL FLOOD CONTROL DISTRICT



NOTICE OF PUBLIC MEETING

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
BOARD OF DIRECTORS COMMITTEE
TO EVALUATE THE PERFORMANCE
OF THE GENERAL MANAGER,
STEVEN C. PARRISH, P.E.

JANUARY 30, 2018
4:00 P.M.

RFCD/RTC ADMINISTRATION BUILDING
THIRD FLOOR MEETING ROOM #309
600 SOUTH GRAND CENTRAL PARKWAY
LAS VEGAS, NEVADA 89106

FOR ADDITIONAL INFORMATION CONTACT:

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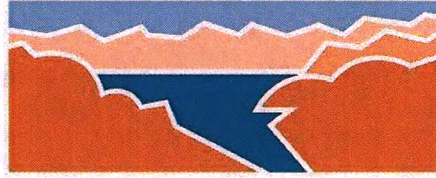
This meeting has been properly noticed and posted at the following locations:

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 89024
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: _____

Sherry Allen

REGIONAL FLOOD CONTROL DISTRICT



AGENDA

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT BOARD OF DIRECTORS COMMITTEE TO EVALUATE THE PERFORMANCE OF THE GENERAL MANAGER

JANUARY 30, 2018
4:00 P.M.

I. Call the meeting to order and approve the agenda with deletion of any items

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

2. Evaluate the performance of Steven C. Parrish, P.E., the Regional Flood Control District General Manager for calendar year 2017, set goals and objectives for calendar year 2018 and adjust compensation or take action as deemed appropriate (*For possible action*)

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

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

2017
STRATEGIC PLAN

RESULTS

REGIONAL FLOOD CONTROL DISTRICT



2017 STRATEGIC PLAN

RESULTS

VISION

Premier regional agency providing a community safe from the devastation of floods while protecting the surface water environment.

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.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
2017 Strategic Plan Summary

VISION

Premier regional agency providing a community safe from the devastation of floods while protecting the surface water environment.

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.

KEY SERVICE AREAS

Master Planning
Capital Improvement Program
Operations and Maintenance
Floodplain Management
Environmental Protection

GOALS

Provide updated Master Plans for the control of flooding.
Implement projects that provide the community with flood protection.
Effect regulations, criteria and programs that protect the environment and are sound storm water management tools.
Enhance public awareness of flood safety and other District programs.
Seek opportunities to maximize the efficiency and effectiveness of District services.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2017 Strategic Plan

Key Service Areas

1. *Master Planning*
 2. Capital Improvement Program
 3. Operations and Maintenance
 4. Floodplain Management
 5. Environmental Protection
-

Vision: Premier regional agency providing a community safe from the devastation of floods while protecting the surface water environment.

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.

Goal #1 Provide updated Master Plans for the control of flooding.
(Master Planning and Environmental)

Strategies:

1. Identify sustainable solutions to mitigate flooding problems that are efficient, cost effective, and can be implemented.
2. Account for the need to manage the flood risk for both existing and future development.
3. Respond to opportunities that enhance the usefulness of the Master Plans.
4. Update the Master Plan by utilizing the best resources and information available.
5. Comply with the requirements of the Nevada Revised Statutes.
6. Present Master Plan updates, changes, and amendments to governmental bodies for consideration and adoption.
7. Coordinate the Master Plans with regional planners to allow opportunities for recreational, transportation, and environmental enhancements.

Objectives:

1. Manage the Master Plan Update for Bunkerville and Mesquite for adoption by November 2017.
In August 2016, the District Board authorized the General Manager/Chief Engineer to issue a request for proposals to prepare a Master Plan Update (MPU) for the Town of Bunkerville and City of Mesquite. In December 2016, a professional services contract with Atkins North America, Inc., was approved by the District Board.

The MPU was reviewed and completed in coordination with the District and City of Mesquite and Town of Bunkerville. The MPU's were adopted by the District Board in December 2017. The MPU will remain in effect over the next five-year cycle, subject to modifications from any Master Plan Changes or Amendments during that time.
2. Manage the Master Plan Update for the Las Vegas Valley for adoption by September 2018.
In May 2016, the District Board authorized the General Manager/Chief Engineer to issue a request for proposals to prepare a Master Plan Update (MPU) for the Las Vegas Valley. In September 2016, a professional services contract with Atkins North America, Inc., was approved by the District Board.

The MPU is being reviewed in coordination with the District, Clark County, and cities of Las Vegas, North Las Vegas and Henderson. The MPU is scheduled to be adopted by the District Board in September 2018. The MPU will remain in effect over the next five-year cycle, subject to modifications from any Master Plan Changes or Amendments during that time.
3. Initiate the Master Plan Update for Boulder City for adoption by November 2018.
In July 2017, the District Board authorized the General Manager/Chief Engineer to issue a request for proposals to prepare a Master Plan Update (MPU) for the City of Boulder City. In December 2017, a professional services contract with Atkins North America, Inc. was approved by the District Board. The MPU is on target for Board adoption in November 2018.
4. Ensure all Master Plan Changes and Amendments receive Southern Nevada Regional Planning Coalition (SNRPC) and Southern Nevada Strong approval. Review Nevada Revised Statute requirements for Master Plan Changes and Amendments and propose changes as necessary.
District staff reviews all changes and amendments to ensure they conform to the SNRPC Regional Policy Plan. There were no changes or amendments requested in calendar year 2017.
5. Submit for approval all Master Plan Updates to SNRPC and Southern Nevada Strong.

- In calendar year 2017, there were no Master Plan Updates submitted to SNRPC or Southern Nevada Strong.*
6. Continue to participate in forums on the water cycle and assess the effect on future Master Plans.
District staff continues to participate in regular meetings to discuss these issues. Regular meetings include Stormwater Quality Management Committee, Lake Mead Water Quality Forum, Las Vegas Valley Watershed Advisory Committee and the Las Vegas Wash Coordination Committee.
 7. Review future Bureau of Land Management (BLM) and Cooperative Management Area (CMA) land sales to determine impacts on the Master Plans and identify real estate to be reserved for future flood control infrastructure.
The review process has been established to address BLM sales. Comments are offered when appropriate to secure future rights-of-way. During calendar year 2017, 35 parcels were reviewed as part of 10 BLM land sales.
 8. Continue routine maintenance of the District's Geographic Information System (GIS) with engineering and cost data for the Capital Improvement Program.
The District continued to provide leading-edge Geographic Information Systems (GIS) technologies to both staff and the public. The District's GIS staff maintained Digital Flood Insurance Rate Map (DFIRM) data and flood control facility data, which is continually updated to reflect new flood insurance studies and completed flood control projects. This GIS data is provided to Clark County's GIS central data repository for use by other entities, agencies, and customers. This data is also utilized in the District's web, desktop, and mobile applications. Information Technology staff also responds to custom map and other GIS product requests.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2017 Strategic Plan

Key Service Areas

1. Master Planning
 2. *Capital Improvement Program*
 3. *Operations and Maintenance*
 4. Floodplain Management
 5. *Environmental Protection*
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Goal #2 Implement projects that provide the community with flood protection.
(Capital Improvement Program, Operations and Maintenance, Environmental, and Local Drainage)

Strategies:

1. Improve regional coordination of flood control activities.
2. Expeditiously implement Master Plan facilities in a logical order.
3. Acquire, design, construct, and maintain facilities utilizing the best available information.
4. Improve partnerships with stakeholders.
5. Ensure the effective use of funds for implementation and maintenance of flood control facilities.
6. Ensure compliance with local, state, and federal programs and/or regulations.
7. Keep abreast of new rules, regulations, and technologies that impact the continued implementation of the District's Master Plan.
8. Maximize the benefits of the regional system through a local drainage program for entities to implement local drainage projects.
9. Provide quality assurance, quality control, and value engineering on projects.
10. Explore all opportunities to discharge the Master Plan in a timely manner.

Objectives:

1. *Oversee the construction of flood control facilities identified in the Regional Flood Control District Master Plan(s). Currently, the District has the successful administrative and fiscal management of 89 open interlocal contracts totaling \$385.7 million, of which \$165.8 million is remaining. In FY 2016-17, the District's Board of Directors acted upon 44 projects funding approximately \$68.8 million using resources from Pay-As-You-Go of \$64.0 million and project closeouts and reductions totaling \$4.8 million. As of December 2017 (FY 2017-18), the Board has acted upon 30 projects funding \$51.0 million, of which \$45.0 million used resources from Pay-As-You-Go funding and Bond funding and \$6.0 million in returns from project closeouts and reductions.*

During FY 2016-17, 8 projects were awarded for construction totaling \$81.4 million. This amount includes District funding of \$44.6 million with the remainder funded by other sources. Additionally, 8 projects completed construction over the fiscal year with a total value of \$35.3 million, of which \$33.7 million were RFCD funds. With a combined total of \$116.7 million, approximately 1,389 jobs would be created or sustained.

In FY 2016-17, the District spent \$8.6 million in Facility Maintenance. The Facility Maintenance budget for FY 2017-18 is \$12.4 million and the Local Drainage Program is \$1,000,000 to allow maximum funding for the Capital Improvement Program. Revenue trends will continue to be evaluated and additional cost-savings measures implemented to maximize funding for projects.

The third and final phase of the Las Vegas Wash - Sloan Channel to Bonanza Road and Flamingo Wash below Nellis Boulevard project completed construction in December 2017. This phase included the last remaining items of work for this \$83,384,000 (RFCD Funds) project that has significantly improved the resilience to flooding in and around the Club at Sunrise Golf Course and has allowed approximately 1700 structures to be removed from the Special Flood Hazard Area by the Federal Emergency Management Agency (FEMA). With the completion of Phase 3, plans and studies will be submitted to FEMA to allow for an additional 300 structures to be removed from the flood zone. We expect the changes to the flood maps to be effective in the fall of 2018. The flood control project was a catalyst for other projects in the area funded by other agencies including the City of Las Vegas and the Clark County Water Reclamation District for sewer improvements, Clark County Parks and Recreation for reconstruction of the club house and the City of Las Vegas using Southern Nevada Public Land Management Act funds to construct a trail system along the channel from Charleston Blvd. to Lamb Blvd. including a pedestrian bridge over Charleston Boulevard. The outside funding totaled \$41,817,210 for a total project cost of \$120,261,666.

2. Ensure effective and efficient maintenance of flood control facilities.
Approved interlocal contracts for all entities in FY 2016-17 totaled \$10,776,632.36, of which \$8,580,893.68 was spent on the Maintenance Work Program to ensure efficient operation of the flood control network.

Staff is reviewing and monitoring the FY 2017-18 use of maintenance funds, of which \$12,426,050.00 was approved in Interlocal contracts for the six member entities. As of the second quarter of FY 2017-18, \$1,481,250.43 has been spent.
3. Manage the Local Drainage Program to aid the community.
In FY 2017-18 there was one request for funding for the Local Drainage Program. From Clark County, Katie Avenue Storm Drain was funded in the amount of \$994,016.50. The design of this project was completed in November 2017 and has advertised for construction bids.

Since the inception of the Local Drainage Program in fiscal year 2003, 27 projects have been funded by the District totaling \$14,643,913.43, which includes reductions and project closeouts. In FY 2017-18, \$1,000,000.00 is budgeted for this program.
4. Monitor and respond to state/federal legislation that may impact the discharge of the Master Plans.
District staff and consultants work with state and federal representatives to monitor, suggest, and support legislation that is favorable for design and construction of the Master Plan projects. These efforts are ongoing. During the 2017 legislative session, the District issued a letter opposing AB 100, which would have shifted risk for unforeseen events during construction from the contractor to the public agency. Also, the District met with Governor Sandoval's administration to discuss issuance of comments by the State regarding the Environmental Protection Agency's Clean Water Rule. District staff is actively involved in national organizations that monitor and influence development of rules and policies by the federal government concerning the National Flood Insurance Program, FEMA, EPA and the Corps of Engineers.
5. Evaluate multi-use proposals for projects.
District staff periodically reviews multiple use proposals from member entities and private developers planning multi-use projects in Regional facilities. District staff participates in the Regional Open Space and Trails workgroup monthly meetings to help identify and coordinate new trail projects which may impact Regional facilities.
6. Participate in engineering associations.
District staff participated in several local and national engineering association events. District staff are members of, or contributors to the following organizations/committees: ALERT User's Group, American

Meteorological Society, American Public Works Association, American Society for Public Administration, American Society of Civil Engineers, Arizona Floodplain Management Association, Association of State Dam Safety Officials, Association of State Floodplain Managers, City-County Communications and Marketing Association, Construction Managers Association of America, Department of Homeland Security Dam and Levee Sectors, Floodplain Management Association, Government Finance Officers Association, International Association of Business Communicators, Lake Mead Water Quality Forum, Las Vegas Valley Watershed Advisory Committee, Las Vegas Wash Coordination Committee, National Association of Flood and Storm Water Management Agencies, National Association of Government Communicators, National Hydrologic Warning Council, National Society of Professional Engineers, Nevada Hazard Mitigation Planning Committee, Nevada Silver Jackets, Nevada Taxpayers Association, Public Relations Society of America, Southern Nevada Home Builders Association, State of Nevada Entity Technical Alliance, Stormwater Quality Management Committee, UNLV Civil and Environmental Engineering and Construction Department Advisory Board.

Staff members have been named to several boards and committees including the Board of Directors for the National Association of Flood and Storm Water Management Agencies (Executive Committee – Treasurer), the Flood Management Agency (Board Member) and the American Public Works Association Executive Committee (Webmaster), Las Vegas Valley Watershed Advisory Committee (Vice Chair), Storm Water Quality Management Committee (Chair) and Nevada Hazard Mitigation Committee (Board Member).

7. Solicit and evaluate input from the construction industry and design community, including entity consultants, to address design, construction, and maintenance of flood control projects.
Engineering staff regularly attend progress meetings for all District funded design and construction projects with entity Public Works personnel, design consultant and contractors.
8. Review proposed Capital Improvement Program design submittals within 30 days after receipt.
Engineering staff review all Capital Improvement Program (CIP) design submittals to ensure conformance with the “Uniform Regulations for the Control of Drainage” and the “Hydrologic Criteria and Drainage Design Manual”. As of December 2017, 47 reviews were performed/completed on 16 projects with an average review time of 28 days duration. In addition to CIP, 14 major maintenance projects, trail projects, or other projects funded by outside agencies that affect facilities on the master plan have been reviewed within the required review time of 30 working days.
9. Update the District’s Ten Year Construction Program by July 1 to integrate the financial and engineering planning processes.

The Ten Year Construction Program (TYCP) and Fiscal Year Project List are required to be updated annually. TYCP resources generally consist of sales tax revenues and debt financing. On June 8, 2017, the Board adopted the Ten Year Construction Program which totaled \$849,649,219.

10. Investigate participation in the Cooperating Technical Partner Program offered by the Federal Emergency Management Agency to determine suitability with District operations.
Discussions with FEMA to determine the viability of becoming a Cooperating Technical Partner (CTP) are ongoing. In 2017, no projects/programs which could be funded by the CTP Program were identified by FEMA.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2017 Strategic Plan

Key Service Areas

1. Master Planning
 2. Capital Improvement Program
 3. Operations and Maintenance
 4. *Floodplain Management*
 5. *Environmental Protection*
-

Vision: Premier regional agency providing a community safe from the devastation of floods while protecting the surface water environment.

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.

Goal #3

Effect regulations, criteria and programs that protect the environment and are sound stormwater management tools.

(Hydrologic Criteria and Drainage Design Manual (HCDDM) Regulations, National Pollutant Discharge Elimination System (NPDES), Emergency Action Plans (EAP), National Flood Insurance Program (NFIP), Community Rating System (CRS), Environmental, Wetlands, and Water Quality)

Strategies:

1. Assist customers to increase their understanding of flood control rules, regulations, and the National Flood Insurance Program (NFIP).
2. Ensure compliance with the Uniform Regulations for the Control of Drainage for all projects that have regional significance.
3. Provide a sound basis for the expenditure of private, public, and regional monies.
4. Utilize the best available information in the planning and design of private and public infrastructure.
5. Promote programs that qualify communities to receive credits under the NFIP's Community Rating System (CRS).
6. Cooperate with entities to provide the Federal Emergency Management Agency (FEMA) with information to facilitate publication of accurate flood insurance rate maps.
7. Ensure compliance with the District's Environmental Impact Statement (EIS).

8. Ensure compliance with the Las Vegas Valley National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit issued by the Nevada Department of Environmental Protection.
9. Ensure compliance with the minimum requirements of the District's HCDDM to produce flood resistant land development and effective flood control infrastructure.
10. Participate in multi-agency environmental protection efforts.
11. Collaborate with the entities to develop Emergency Action Plans that provide communities with a safety plan during flood control emergencies.

Objectives:

1. Assist with map revision requests associated with capital improvement projects as necessary. Address flood mapping issues as needed.

District staff reviews impacts to FEMA Special Flood Hazard Areas during the design phase of every project. Letters of Map Change (LOMC) are processed through FEMA as appropriate through design and construction of all capital improvement program projects. In 2017, based on designs of projects in the capital improvement program there were two (2) Conditional Letters of Map Revision (CLOMR) issued.

The following Letters of Map Revision (LOMR) were issued by FEMA in 2017 based on projects built as part of the capital improvement program:

- *Rancho Drive/US 95;*
- *Duck Creek Channel from Mountain Vista Street to Green Valley Parkway;*
- *Colton Avenue Flood Control Improvements Project; and*
- *Duck Creek, Sunset to Sandhill.*

The following Letters of Map Revision (LOMR) are being prepared or are under review by FEMA based on projects built as part of the capital improvement program:

- *I-15 Corridor – Cactus Avenue to Pebble Road;*
- *Las Vegas Wash – Nellis to Stewart;*
- *Muddy River Logandale Levee;*
- *Muddy River Cooper Street Bridge; and*
- *Flamingo Diversion Channel – Rainbow Branch.*

2. Communicate the NFIP rules, regulations and/or changes to established rules and regulations to customers as necessary.
District staff responds to questions and inquiries regarding the National Flood Insurance program (NFIP) rules and regulations as needed.
3. Review regionally significant private and public development proposals to ensure conformance with established rules, regulations, and criteria within 30 working days after receipt.
The District reviewed plans as submitted to ensure conformance with the guidelines established for private development including addendums. As of December 2017, a total of 237 comments/concurrence letters have been completed. On average, staff completed these reviews within 20 working days.
4. Continue to assist entities in complying with environmental regulations.
District staff continues to assist member entities in complying with all environmental regulations.
5. Continue to assist entities prepare Emergency Action Plans for flood control facilities.
District staff continues to assist member entities in developing or updating Emergency Action Plans.
6. Coordinate execution of the illicit discharge detection and elimination program including a component for construction site inspection. Continue implementation of a construction site stormwater education program for Las Vegas Valley jurisdiction inspectors and construction site operators as needed.
The current construction site inspection program continues from previous years with the goal to reduce sediment and construction pollutants entering the storm drain system. In 2017, the District helped prepare updated training materials for local city and county staff to use in the development of construction site inspectors. Training sessions for contractors are held annually for local construction companies to aid in their compliance with the program. The District helped organize and present the sessions. In 2017, five (5) contractor training sessions were held using updated construction site training material. Future training will be scheduled as indicated by inspection results.
7. Comply with state and federal stormwater quality management programs by annually conforming with NPDES permit activities.
In accordance with the Clean Water Act, the Clark County Regional Flood Control District has been operating under a National Pollutant Discharge Elimination System (NPDES) permit with the Las Vegas Valley entities since December 1990. The permit, which has a five-year duration, was most recently renewed in February 2010. It outlines a schedule of monitoring requirements and best management practices designed to protect the quality of surface waters in the Las Vegas Valley.

On June 8, 2017, the District Board authorized the General Manager to solicit proposals, select a consultant and negotiate a professional services contract for continued representation for permit compliance. To maintain consistent representation throughout the term, the District negotiated and the Board approved a NPDES consultant contract on September 14, 2017. The annual permit compliance report was submitted to NDEP in September 2017 and is presently being reviewed by the NDEP.

8. Provide support to the NPDES co-permittees in permit compliance programs.
The NPDES consultant contract advises, supports, and documents permit compliance for all co-permittees of the NPDES permit. In addition, the District currently serves as chair of the Stormwater Quality Management Committee (SQMC) to coordinate storm water program elements and ensure compliance with the permit. The District Public Information staff assists co-permittees with public outreach and works to ensure compliance with the increasing rigor of NPDES and EPA regulations.
9. The current NPDES program was audited by the Nevada Division of Environmental Protection (NDEP) in February 2014. Findings from the audit were received by permittees in August 2015. Provide support and coordination during 2016-17 to co-permittees for potentially enhanced program elements based on comments from NDEP and the Environmental Protection Agency (EPA) as a result of the program audit.
Findings from the February 2014 audit were received from NDEP on August 24, 2015. District coordinated with the permittees and prepared a unified response to NDEP, which was submitted on December 4, 2015. District also coordinated the development of an implementation plan and schedule to be carried out in 2016. The implementation plan consisted of six sets of deliverable documentation packages to NDEP on various audit items. In August 2017, the NDEP issued a formal close-out of the audit with no formal enforcement or penalties assessed to the Permittees.
10. The current NPDES MS4 permit expired in February 2015. Provide support during 2016-17 on discussions/negotiations relative to permit renewal.
The current permit has been administratively extended by NDEP until a new permit can be written and negotiated. This process is expected to begin in early 2018 and will likely take several months to complete.
11. Provide funding for outreach, research, study, design and/or construction to protect and/or enhance the stormwater environment and support common elements of the Las Vegas Valley NPDES stormwater permit compliance programs.
The District continues to develop public service announcements (PSA) that focus on the importance of not polluting our desert environment. These commercials point out behaviors residents can change to help protect Lake Mead, our drinking water source. Commercials are placed as paid advertising in the spring and fall with four major television networks to reinforce the importance of not dumping trash, reporting clogged storm

drains, fertilizing properly, disposing of pet waste and using commercial car washes. In 2017, the District spent \$24,000 advertising stormwater issues. The Nevada Division of Environmental Protection provided a matching grant to cover some of these activities. Ads were placed in Spring and Fall on four local network TV stations. The grant, which ended June 30, 2017, matched \$12,000. District staff is also available to give presentations to groups interested in environmental topics.

The District's Be Lake Friendly campaign, launched in 2015, continues to be a public focus of stormwater information. In 2017, staff presented information on BeLakeFriendly.com and associated social media channels. The campaign, featuring desert animals in their habitats, aims to create a lake friendly environment.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2017 Strategic Plan

Key Service Areas

1. *Master Planning*
 2. *Capital Improvement Program*
 3. *Operations and Maintenance*
 4. *Floodplain Management*
 5. *Environmental Protection*
-

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Goal #4

Enhance public awareness of flood safety and other District programs.

(Public Information, Information Technology, Flood Threat Recognition System (FTRS), and Website/Internet)

Strategies:

1. Educate the public about the dangers of flash flooding; flood insurance, and the importance of protecting the environment.
2. Enhance the Flood Threat Recognition System (FTRS).
3. Provide printed and electronic information that is graphically appealing and easily understood.
4. Enhance the District's Website (www.regionalflood.org).
5. Communicate with the public about all key District service areas across traditional and digital methods.

Objectives:

1. Produce the Annual Report by October 2017.
The Board adopted the FY 2016-17 Annual Report on October 12, 2017.

2. Ensure funds provided for public information services are utilized in the most cost effective manner. Produce Public Service Announcements (PSAs), brochures, social media and other media methods to inform the public about flood safety, flood insurance and stormwater quality.
The District places flood safety PSA's as commercial time with the major network stations. In 2017, the District spent \$340,500 placing commercials in both English and Spanish starting in mid-June and continuing through mid-September of the summer flash flood season. An additional \$48,000 was spent on Stormwater PSA's in May and November 2017.
3. Educate the public about flood safety through an annual Flood Safety Advertising Campaign.
District staff monitors funds used for the Flood Safety Advertising Campaign for compliance and cost effective use of District funding. On February 9, 2017, the District Board approved a professional services contract for the 2017 Flood Safety Advertising Campaign. As of December 2017, \$915,000 has been spent, meeting budget requirements.

On October 12, 2017, the District Board authorized the General Manager/Chief Engineer to solicit and review proposals from qualified firms and negotiate a professional services contract for the 2018 Flood Safety Advertising Campaign. It is anticipated in February 2018, a new professional services contract will be approved for the 2018 campaign.
4. Produce *The Flood Channel* television program that focuses on flood safety, flood insurance, and protecting the environment by educating the community about District programs.
On June 8, 2017, the District Board approved an annual agreement with the City of Las Vegas, KCLV-TV2 for videotaping and editing of up to six (6) flood channel television shows for a total contract cost of \$89,900. From July to December 2017, the District produced two (2) programs and a third was being finalized by KCLV for air in early January 2018.
5. Continue the public information program in schools for first through fifth grades and conduct science-based outreach opportunities for older students.
 - Provide the Desert Floods school video in either English or Spanish.
During calendar year 2017, 10,854 students received curriculum materials and teachers were provided with the Desert Floods school video in either English or Spanish. The District also updated printed student materials prior to the start of the 2017-18 school year.
 - Solicit and conduct school presentations upon teachers' request.

The District made students aware of the dangers of playing in floodwater and drainage facilities. During calendar year 2017, District staff made 449 classroom presentations at 85 elementary schools speaking to approximately 10,800 students.

- Monitor the effectiveness of the expanded program by surveying participating teachers.
100% of teachers who returned surveys about the schools outreach program stated they believe their students were deterred from playing in flood waters.
6. Plan and execute a media event to heighten media coverage and public awareness of flash flood season no later than July 2017.
The Board of Directors designated July as “Flash Flood Awareness Month” and held a news conference on June 21, 2017 at Wet ‘n’ Wild. The event was attended by all local mainstream and Spanish television stations and resulted in more than 12 hours of news coverage and section-front coverage in the Review Journal.
7. Communicate NFIP Insurance availability to residents as necessary prior to May of each year.
Disseminating information about flood insurance continues to be a priority. Commercial placement of the flood insurance spots continued through the year. District staff continues to respond to questions and inquiries regarding National Flood Insurance Program rules and regulations. Additionally, important information about flood insurance has been featured on The Flood Channel Show several times over the past year and flood insurance information is featured on the FloodSpot app.
8. Continue to evaluate and update the District’s Information Technology.
- Routinely update the District’s Website.
Updates are routinely implemented on the District’s website. As of December 2017, there were 2,225,799 unique visitors to the website.
 - Routinely update Desktop, Web and mobile applications.
The Information Technology (IT) staff continued to enhance and maintain the decision-support tools available in the desktop application Regional Flood Management System (RFMS). Included in the improvements were revamped financial reports and refinements to the display functions of both the Floodview application and other RFMS applications. The District’s mobile applications were maintained for the District’s FTRS system in both Android and iOS mobile phones.
 - Routinely monitor changes to the Enterprise Resource Planning System, and update the Regional Flood Management System (RFMS) accordingly.
Continuing maintenance on the process of downloading data from the County resulted in increased integration between the Enterprise Resource Planning System (ERP) and the RFMS reporting system. Additional reports were created from the enhancement.

9. Monitor and evaluate the effectiveness of the Public Information Program through consistent tracking of media hits, social media metrics and other evaluation methods.
The District has been surveying residents since 1999. The results of the 2017 survey will be presented to the Citizens Advisory Committee at their January 29, 2018 meeting and to the District Board at their February 8, 2018 meeting. Staff will use results of the survey to inform outreach efforts. Another survey is planned for 2019.
10. Continue, and potentially expand public information efforts for the Spanish speaking community.
District staff now conducts all Spanish outreach activities, including expanded efforts to reach Spanish media. Hispanic media was present at the 2017 Flood Safety News Conference and the District responded to several interviews initiated by Spanish media stations before and during storms throughout 2017.
11. Attend and support community outreach events and other activities that promote protecting the environment and flash flood awareness.
During calendar year 2017, the District participated in 13 community events providing information about flash flood safety and stormwater quality.
12. Ensure that FTRS field stations are operational at least 96 percent of the time and install new FTRS field stations as necessary.
Based on monthly rainfall summary reports for calendar year 2017, the FTRS field stations were operational 98.3% of the time. The District assumed responsibility for two (2) rain gauges previously operated by Clark County Public Works (CCPW). The District assisted CCPW in upgrading the water level gauge at Winnick Avenue and it no longer needs to be manually reset weekly. There are currently two hundred eight (208) total field stations, of which District staff operates and maintains two hundred (200).
13. Review and update the District's Flood Response Plan by June 2017.
The Flood Response Plan was revised and updated in June 2017.
14. Continue to provide training to entities and staff on the use of FTRS software as required.
District staff designed, developed and implemented a new web-based application to allow emergency responders and the public to easily and reliably access FTRS data; additional functionality and utility were added during the past year. Training on the use of FTRS software for entities and staff is an ongoing process.
15. Assist District staff with communications needs regarding all District programs and provide training as needed.
District Public Information staff met with other District staff as needed throughout 2017 to facilitate communication needs. This included preparation for interviews, assistance with presentations, legislative briefings throughout 2017 and social media training for entities.

16. Conduct a Survey of Residents by December 2017 to ensure District public communications are being received by target audiences.

The District has been surveying residents since 1999. The results of the 2017 survey will be presented to the Citizens Advisory Committee at their January 29, 2018 meeting and to the District Board at their February 8, 2018 meeting. Staff will use results of the survey to inform outreach efforts. Another survey is planned for 2019.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2017 Strategic Plan

Key Service Areas

1. *Master Planning*
 2. *Capital Improvement Program*
 3. *Operations and Maintenance*
 4. *Floodplain Management*
 5. *Environmental Protection*
-

Vision: Premier regional agency providing a community safe from the devastation of floods while protecting the surface water environment.

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.

Goal #5 Seek opportunities to maximize the efficiency and effectiveness of District services.
(Multi-use Facilities, Developer Participation, Entity Advance Funding, Joint Funding, Bonding, and Over sizing)

Strategies:

1. Enhance the level of service provided to the District's internal and external customers.
2. Expedite the construction of flood control facilities.
3. Ensure the financial integrity and stability of the District.
4. Maintain open communications with the Board of Directors, advisory committees, local governments and agencies, and the public.
5. Enhance the District's Document and Management System (DDMS).
6. Allow for the development of multiple uses (e.g. recreational, wetlands) for flood control facilities with local entities.
7. Work with community partners to maximize the use of District resources.

Objectives:

1. Closely monitor the economic conditions in Southern Nevada.
 - Maintain operational expenses at 10 percent or less of sales tax revenues.
 - Evaluate financial impacts to the Capital Improvement Program.
 - Evaluate financial impacts to the Maintenance Work Program.
 - Evaluate financial impacts to the Local Drainage Program.

Operational expenditures were 6.4 percent of the sales tax revenues of \$99.1 million in FY 2016-17. Additionally, operating expenses are budgeted at 8.9 percent of estimated sales tax revenues of \$100.7 million in FY 2017-18. The District is able to meet its financial commitments, due to solid fiscal policies that have been in place for many years. Fiscal policies have set the framework that allows the District to operate smoothly.

In the District's FY 2017-18 Ten Year Construction Program (TYCP), \$200 million and \$175 million in General Obligation bonds have been programmed in fiscal year 2019-20 and fiscal year 2024-25, respectively. Bonding is one of the methods the District uses to continue expediting funding to flood control infrastructure projects to protect life and property.

On September 14, 2017, the District Board approved Resolution No. 17-5 requesting the Board of County Commissioners to issue Clark County, Nevada General Obligation (Limited Tax) Flood Control Crossover Refunding Bonds (Additionally Secured by Pledged Revenues), Series 2017. On November 7, 2017, Clark County and the District completed a successful competitive bond sale to refund \$113.6 million of the 2009B Flood District Build America Bonds, with a true interest cost of 2.819%. As a result the refunding achieved a \$17.7 million net present value savings. The average annual debt savings will be about \$1.2 million from FY 2021 through FY 2039. The debt service remains level at about \$39 million for future years. The Bond closing was held on December 7, 2017.

The FY 2017-18 budget amount for the Maintenance Work Program is \$13.5 million. The budget amount for maintenance was developed and evaluated with input from each of the entities to ensure that adequate funds are available for maintenance needs as well as unexpected repairs and clean up after storm events during the fiscal year.

Included in the budget for FY 2017-18 is \$1.0 million for the Local Drainage Program. This amount was evaluated to determine a budget that is reasonable based on economic conditions, estimates of revenue and anticipated funding needs of upcoming capital improvement projects.

Revenue trends will continue to be evaluated to maximize funding for projects.

2. Continue to explore and implement alternatives to expedite construction of flood control infrastructure integrating financial and engineering management.

Quarterly Project Status Reports and Monthly Financial Reports are included in the Board agenda. Additionally, through integration of financial and engineering resources, staff produces monthly management reports which assist in financial management and planning in expediting flood control infrastructure.

3. Expedite construction of flood control facilities by seeking other funding opportunities which may include cost sharing.

District staff coordinates infrastructure construction with governmental entities like the Regional Transportation Commission of Southern Nevada (RTC SNV), Nevada Department of Transportation (NDOT), Southern Nevada Water Authority (SNWA), Bureau of Land Management (BLM), Clark County Water Reclamation District (CCWRD) and member entities to ensure that construction of 100-year flood level protection is a coordinated and cost effective process. Additionally, some entities have chosen to go with the Construction Manager at Risk method (CMAR) for delivery of construction projects.

During Calendar Year 2017 construction bids were awarded on the following projects using cost sharing efforts:

- *Duck Creek, Las Vegas Boulevard (RFCD, RTC, Clark County and Special Improvement District);*
- *Freeway Channel – Washington, MLK to Rancho Drive (RFCD, RTC, City of Las Vegas);*
- *Brent Drainage System – Floyd Lamb Park to Durango Drive (RFCD, SNPLMA, RTP Grant);*
- *Center Street Storm Drain (RFCD, RTC, City of Henderson);*
- *Local Drainage Improvements for Appaloosa Storm Drain (RFCD, RTC, City of Henderson);*
- *Duck Creek at Dean Martin (RFCD, Clark County, Developer Participation);*
- *Flamingo Diversion – Rainbow Branch (RFCD, RTC); and*
- *Gowan North – Buffalo Branch, Lone Mountain to Washburn Road (RFCD, CLV).*

4. Continue to evaluate and update the District's Document and Management System (DDMS).
As of December 2017, all historical District documents have been scanned and electronically catalogued. Scanning of District documents is an ongoing process. Enhancements of the DDMS and refinements of document retrieval techniques continue to be made. The DDMS has been very successful through database maintenance, providing new document retrieval techniques, and elimination of storage through digital conversion.

2018
STRATEGIC PLAN

REGIONAL FLOOD CONTROL DISTRICT



2018 STRATEGIC PLAN

VISION

Premier regional agency providing a community safe from the devastation of floods while protecting the surface water environment.

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.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
2018 Strategic Plan Summary

VISION

Premier regional agency providing a community safe from the devastation of floods while protecting the surface water environment.

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.

KEY SERVICE AREAS

Master Planning
Capital Improvement Program
Operations and Maintenance
Floodplain Management
Environmental Protection

GOALS

Provide updated Master Plans for the control of flooding.
Implement projects that provide the community with flood protection.
Effect regulations, criteria and programs that protect the environment and are sound storm water management tools.
Enhance public awareness of flood safety and other District programs.
Seek opportunities to maximize the efficiency and effectiveness of District services.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2018 Strategic Plan

Key Service Areas

1. *Master Planning*
 2. Capital Improvement Program
 3. Operations and Maintenance
 4. Floodplain Management
 5. Environmental Protection
-

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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.

Goal #1 Provide updated Master Plans for the control of flooding.
(Master Planning and Environmental)

Strategies:

1. Identify sustainable solutions to mitigate flooding problems that are efficient, cost effective, and can be implemented.
2. Account for the need to manage the flood risk for both existing and future development.
3. Respond to opportunities that enhance the usefulness of the Master Plans.
4. Update the Master Plan by utilizing the best resources and information available.
5. Comply with the requirements of the Nevada Revised Statutes.
6. Present Master Plan updates, changes, and amendments to governmental bodies for consideration and adoption.
7. Coordinate the Master Plans with regional planners to allow opportunities for recreational, transportation, and environmental enhancements.

Objectives:

1. Manage the Master Plan Update for the Las Vegas Valley for adoption by September 2018.
2. Manage the Master Plan Update for Boulder City for adoption by November 2018.
3. Initiate the Master Plan Update for the Outlying Areas of Clark County for adoption by November 2019.
4. Ensure all Master Plan Changes and Amendments receive Southern Nevada Regional Planning Coalition (SNRPC) approval. Review Nevada Revised Statute requirements for Master Plan Changes and Amendments and propose changes as necessary.
5. Submit for approval all Master Plan Updates to SNRPC.
6. Continue to participate in forums on the water cycle and assess the effect on future Master Plans.
7. Review future Bureau of Land Management (BLM) and Cooperative Management Area (CMA) land sales to determine impacts on the Master Plans and identify real estate to be reserved for future flood control infrastructure.
8. Continue routine maintenance of the District's Geographic Information System (GIS) with engineering and cost data for the Capital Improvement Program.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2018 Strategic Plan

Key Service Areas

1. Master Planning
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Goal #2

Implement projects that provide the community with flood protection.

(Capital Improvement Program, Operations and Maintenance, Environmental, and Local Drainage)

Strategies:

1. Improve regional coordination of flood control activities.
2. Expeditiously implement Master Plan facilities in a logical order.
3. Acquire, design, construct, and maintain facilities utilizing the best available information.
4. Improve partnerships with stakeholders.
5. Ensure the effective use of funds for implementation and maintenance of flood control facilities.
6. Ensure compliance with local, state, and federal programs and/or regulations.
7. Keep abreast of new rules, regulations, and technologies that impact the continued implementation of the District's Master Plan.
8. Maximize the benefits of the regional system through a local drainage program for entities to implement local drainage projects.
9. Provide quality assurance, quality control, and value engineering on projects.
10. Explore all opportunities to discharge the Master Plan in a timely manner.

Objectives:

1. Oversee the construction of flood control facilities identified in the Regional Flood Control District Master Plan(s).
2. Ensure effective and efficient maintenance of flood control facilities.
3. Manage the Local Drainage Program to aid the community.
4. Monitor and respond to state/federal legislation that may impact the discharge of the Master Plans.
5. Evaluate multi-use proposals for projects.
6. Participate in engineering associations.
7. Solicit and evaluate input from the construction industry and design community, including entity consultants, to address design, construction, and maintenance of flood control projects.
8. Review proposed Capital Improvement Program design submittals within 30 days after receipt.
9. Update the District's Ten Year Construction Program by July 1 to integrate the financial and engineering planning processes.
10. Investigate participation in the Cooperating Technical Partner Program offered by the Federal Emergency Management Agency to determine suitability with District operations.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2018 Strategic Plan

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1. Master Planning
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 3. Operations and Maintenance
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Goal #3 Effect regulations, criteria and programs that protect the environment and are sound stormwater management tools. (Hydrologic Criteria and Drainage Design Manual (HCDDM) Regulations, National Pollutant Discharge Elimination System (NPDES), Emergency Action Plans (EAP), National Flood Insurance Program (NFIP), Community Rating System (CRS), Environmental, Wetlands, and Water Quality)

Strategies:

1. Assist customers to increase their understanding of flood control rules, regulations, and the National Flood Insurance Program (NFIP).
2. Ensure compliance with the Uniform Regulations for the Control of Drainage for all projects that have regional significance.
3. Provide a sound basis for the expenditure of private, public, and regional monies.
4. Utilize the best available information in the planning and design of private and public infrastructure.
5. Promote programs that qualify communities to receive credits under the NFIP's Community Rating System (CRS).
6. Cooperate with entities to provide the Federal Emergency Management Agency (FEMA) with information to facilitate publication of accurate flood insurance rate maps.
7. Ensure compliance with the District's Environmental Impact Statement (EIS).

8. Ensure compliance with the Las Vegas Valley National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit issued by the Nevada Department of Environmental Protection.
9. Ensure compliance with the minimum requirements of the District's HCDDM to produce flood resistant land development and effective flood control infrastructure.
10. Participate in multi-agency environmental protection efforts.
11. Collaborate with the entities to develop Emergency Action Plans that provide communities with a safety plan during flood control emergencies.

Objectives:

1. Assist with map revision requests associated with capital improvement projects as necessary. Address flood mapping issues as needed.
2. Communicate the NFIP rules, regulations and/or changes to established rules and regulations to customers as necessary.
3. Review regionally significant private and public development proposals to ensure conformance with established rules, regulations, and criteria within 30 working days after receipt.
4. Continue to assist entities in complying with environmental regulations.
5. Continue to assist entities prepare Emergency Action Plans for flood control facilities.
6. Coordinate execution of the illicit discharge detection and elimination program including a component for construction site inspection. Continue implementation of a construction site stormwater education program for Las Vegas Valley jurisdiction inspectors and construction site operators as needed.
7. Comply with state and federal stormwater quality management programs by annually conforming with NPDES permit activities.
8. Provide support to the NPDES co-permittees in permit compliance programs.
9. The current NPDES MS4 permit expired in February 2015 and was administratively extended by Nevada Division of Environmental Protection (NDEP). Once permit renewal is initiated by NDEP, support discussions/negotiations relative to permit renewal.
10. Provide funding for outreach, research, study, design and/or construction to protect and/or enhance the stormwater environment and support common elements of the Las Vegas Valley NPDES stormwater permit compliance programs.

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Goal #4

Enhance public awareness of flood safety and other District programs.

(Public Information, Information Technology, Flood Threat Recognition System (FTRS), and Website/Internet)

Strategies:

1. Educate the public about the dangers of flash flooding; flood insurance, and the importance of protecting the environment.
2. Enhance the Flood Threat Recognition System (FTRS).
3. Provide printed and electronic information that is graphically appealing and easily understood.
4. Enhance the District's Website (www.regionalflood.org).
5. Communicate with the public about all key District service areas across traditional and digital methods.

Objectives:

1. Produce the Annual Report by October 2018.
2. Ensure funds provided for public information services are utilized in the most cost effective manner. Produce Public Service Announcements (PSAs), brochures, social media and other media methods to inform the public about flood safety, flood insurance and stormwater quality.
3. Educate the public about flood safety through an annual Flood Safety Advertising Campaign.

4. Produce *The Flood Channel* television program that focuses on flood safety, flood insurance, and protecting the environment by educating the community about District programs.
5. Continue the public information program in schools for first through fifth grades and conduct science-based outreach opportunities for older students.
 - Provide the Desert Floods school video in either English or Spanish.
 - Solicit and conduct school presentations upon teachers' request.
 - Monitor the effectiveness of the expanded program by surveying participating teachers.
6. Plan and execute a media event to heighten media coverage and public awareness of flash flood season no later than July 2018.
7. Communicate NFIP Insurance availability to residents as necessary prior to May of each year.
8. Continue to evaluate and update the District's Information Technology.
 - Revise District website to improve functionality and ease of use and also maximize website for use on mobile devices.
 - Complete routine updates of information on District website.
 - Routinely update Desktop, Web and mobile applications.
 - Routinely monitor changes to the Enterprise Resource Planning System, and update the Regional Flood Management System (RFMS) accordingly.
9. Monitor and evaluate the effectiveness of the Public Information Program through consistent tracking of media hits, social media metrics and other evaluation methods.
10. Continue, and potentially expand public information efforts for the Spanish speaking community.
11. Attend and support community outreach events and other activities that promote protecting the environment and flash flood awareness.
12. Review and update as necessary District's *Hydrologic Criteria and Drainage Design Manual*.
13. Ensure that FTRS field stations are operational at least 96 percent of the time and install new FTRS field stations as necessary.
14. Review and update the District's Flood Response Plan by June 2018.
15. Continue to provide training to entities and staff on the use of FTRS software as required.
16. Assist District staff with communications needs regarding all District programs and provide training as needed.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2018 Strategic Plan

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Goal #5

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(Multi-use Facilities, Developer Participation, Entity Advance Funding, Joint Funding, Bonding, and Over sizing)

Strategies:

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 - Evaluate financial impacts to the Local Drainage Program.
2. Continue to explore and implement alternatives to expedite construction of flood control infrastructure integrating financial and engineering management.
3. Expedite construction of flood control facilities by seeking other funding opportunities which may include cost sharing.
4. Continue to evaluate and update the District's Document and Management System (DDMS).

www.regionalflood.org

**REGIONAL FLOOD
CONTROL DISTRICT**

