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Arroyo Flood Control Authority**
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1. Call to Order and Roll Call

Vice Chair Borrego called the Regular Board Meeting to order at 10:01 a.m. Thursday, July 28, 2016. Roll was noted as follows:

Directors present:	Chair Bruce M. Thomson (arrived at 10:04) Director Cynthia D. Borrego Director Ronald D. Brown (arrived at 10:03) Director Tim Eichenberg Director Deborah L. Stover
Directors excused:	None
Attorney present:	Attorney Randy Autio, Robles, Rael & Anaya
Others present:	Jerry M. Lovato, P.E., Executive Engineer Staff Other attendees on file at AMAFCA

A quorum was present.

2. Approval of Agenda

Director Eichenberg requested that **Item 16. Hahn Arroyo Phase II Improvements – Project Introduction** be removed from the agenda. He stated that he would like to walk the Hahn and did not want to have a discussion on a project until he had done so. Mr. Jerry Lovato, AMAFCA Executive Engineer, stated that staff was looking at completing the project this year and it would be at the Board's pleasure to discuss. Director Eichenberg stated he would like to walk the area between Pennsylvania and Louisiana.

Director Brown made a motion to approve the agenda, as amended. Director Eichenberg seconded the motion, which passed unanimously (5-0).

3. Meetings Scheduled

- a. **August 25, 2016, 10:00 a.m. – Regular Meeting**
- b. **September 22, 2016, 10:00 a.m. – Regular Meeting**
- c. **October 27, 2016, 10:00 a.m. – Regular Meeting**



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Director Eichenberg mentioned that he will be attending the 8th Annual Local Government Investment Pool (LGIP) Stakeholder Meeting on Thursday, August 25, in Taos, New Mexico and will not be able to attend the Board meeting on that same day. Director Borrego stated she might have a conflict with the September 22, 2016 meeting since there is a possibility she will be out of town. There were no changes to the meeting dates listed.

Vice Chair Borrego turned the meeting over to Chair Thomson upon his arrival at 10:04 a.m.

4. Items from the Floor/Public Comments

Mr. Orlando Lucero from Sandoval County addressed the Board stating that he and members of his community were concerned about the area on the southern end of the Pueblo of Sandia. Part of his presentation included:

- Mosquitos are being drawn to the standing water
- He had been reporting the issue since last summer
- This is a health concern for kids playing outside who might get bitten by mosquitos
- He noticed that that the area was being pumped out since he saw someone with a generator and pump
 - It is a little pump that does not pump out thousands of gallons of water
- The area has become a swamp.
- He received a text that included a photo of a young girl who had blisters on her arm due mosquito bites
- Pictures were passed out to the Board showing standing water
- The water needs to drain into the river and there are members of the community that do not want to come to a public meeting, but have been voicing their concerns to him
- After the dam was built, the water did not drain as it should
- He does not want to go to the newspaper or television station regarding this issue

Mr. Jerry Lovato, AMAFCA Executive Engineer, stated that the area of concern is the North Diversion Channel (NDC) Outfall adjacent to the Embayment Project. The settling area is part of the BMP for the. The 72-acre feet of storage had been designed as part of the channel to capture water and drop out sediment before stormwater gets to the Rio Grande. A pipe discharges into the Middle Rio Grande Conservancy District (MRGCD) ditch. There is a low area that cannot be filled in because the US Army Corp of Engineers (USACE) has not given permission through the 404 Permit process. Mr. Kurt Wagener, AMAFCA Field Engineer, stated that he went out with Ms. Kelly Allen, regulator for the 404 permit with USACE. He advised that the project would probably require a 408 permit also and that Ms. Allen would not license the 404 permit until AMAFCA has moved forward with the 408 permit. AMAFCA has had the permit in the past; however, USACE



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is now requiring a Biological Assessment, resulting in a Biological Opinion from the US Fish and Wildlife Service (FWS) prior to issuing the permits. Ms. Allen will license the 404 General Regional Permit once the Biological Assessment has been done. When the area was modeled, there were debris fences that were supposed to pick up trash. The area should be graded to drain back into the bathtub because the area is higher. He further stated that Mr. Lovato has sent the crew out periodically with the large 8-inch pump (not a small pump) to drain the water. He stressed the project cannot be moved forward until permission has been received from the Federal Government. He stated that during the inspection with Ms. Allen the day before, she would permit it under a Nationwide or a General Regional permit. That part of the permitting should be easy; however, the 408 permit process will not be. The Board had approved to move forward with a Biological Assessment. The Letter of Permission allows AMAFCA to do maintenance; however, maintenance will only be allowed to reestablish the project as it was built, which will not work due to not being able to drain as it was supposed to. Mr. Patrick Chavez, AMAFCA Storm Water Engineer, has written the scope for the Biological Assessment, which will include 10 locations plus the Kirtland Air Force Base project. AMAFCA will continue to pump out the area periodically. The little storms in the area fill it right back up; however, many times the water does not spill over the equipment crossing since it is roughly approximately two feet higher, which allows it to act like a dam. Not only is AMAFCA in trouble with the community due to standing water, the Interstate Stream Commission is concerned because AMAFCA does not have rights to the water that is left standing. AMAFCA really wants to do the project. Responding to a question from Mr. Lucero, Mr. Lovato stated a Biological Assessment would probably take six to seven months. The Biological Opinion for the Embayment area took approximately 18 months to complete. The Embayment area took two years to get through all of the requirements, then four months to do the project. There are areas close to a foot lower than it should be. AMAFCA thought the area could easily be filled in; however, USACE will not allow the area to be filled in and they issued a Cease and Desist letter. Responding to a question from Mr. Lucero, Mr. Lovato stated that water is allowed to drain to the river once it goes above the equipment crossing. AMAFCA has a MS4 Permit with Environmental Protection Agency (EPA) that allows AMAFCA to discharge into the river, but states that AMAFCA should try to minimize the ground pollutants before the water gets into the river. There is over a hundred square miles in the area that drains from Albuquerque before it enters into the river. AMAFCA is required by the Pueblo of Sandia to have water quality standards. Responding to a question from Mr. Lucero, Mr. Lovato stated that BernCo has gone out with their vector control to spray the area for the mosquitos. There was a brief discussion on how long it takes mosquito larvae to mature into an adult mosquito and the various types of fish in the embayment that feed on them. Mr. Lucero thanked the Board for allowing him to speak. Chair Thomson clarified that the Embayment is supposed to drain into the river and water is to be held



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only for a short amount of time. He further stated that the Federal Government and not AMAFCA is holding up the modifications that are needed.

Mr. Wagener introduced AMAFCA's new maintenance worker, Mr. Esquipula Padilla, IV. Mr. Padilla addressed the Board, summarizing his background and experience. Responding to a question from Director Eichenberg, Mr. Padilla stated he was with MRGCD for four and a half years and applied to AMAFCA for better opportunities. The Board welcomed Mr. Padilla. Mr. Bradley Bingham, AMAFCA Drainage Engineer, introduced AMAFCA's new intern from the University of New Mexico, Mr. James Fluke, a civil engineering graduate student. Mr. Fluke addressed the Board, stating that he lives in Bernalillo, recently graduated from UNM, likes everything to do with drainage, and was excited about the opportunity at AMAFCA. Mr. Bingham introduced Mr. Chris Corrales from New Mexico State University, another student intern. Mr. Corrales stated he was a military brat whose parents settled in Corrales, he is a mechanical engineer, and will graduate in December. The Board welcomed the interns to AMAFCA.

There were no other public comments.

5. Approval of Minutes

a. June 23, 2016

Director Borrego asked Mr. Bradley Bingham for clarification on the Upper Piedras Marcadas alternatives, bottom of page 13, and if there would be a hybrid of Alternatives 1 and 2. Mr. Bingham stated that there could be a hybrid of Alternatives 1 and 2 as the project develops. Director Borrego asked that "or a hybrid" be added to the end of the sentence.

Director Brown made a motion to approve the minutes of June 23, 2016, as amended. Director Stover seconded the motion, which passed (5-0).

6. Financial Matters

a. FY 16 Budget to Actual

Mr. Herman Chavez, AMAFCA Finance and Administration Manager, referred the Board to the graph stating the year summary exceeded both budget and the five-year average. Mr. Chavez stated he researched with BernCo the collection rates after inquiring the previous month from Director Eichenberg. The collection rates for the first year (calendar year 2015) was 96.8%, in two years the rate will go up to 98.5%, then 99.6% for the rest of the ten years. Expenses came in as predicted. There are no large expenditures expected for July. All big payables had been accounted for and once all invoices come in, the graph numbers may change slightly. Referring



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the Board to page 4 on the Summary of Expenditures, Mr. Chavez stated that it was budgeted to come in with lightly over a \$1M loss; he anticipates expenditures will come in slightly under \$300 and will be close to FY-2015. Mr. Chavez referred the Board to the third graph that shows AMAFCA should come in close in every category. Responding to a question from Chair Thomson, Mr. Chavez stated legal costs were initially coded into general due to a time crunch and as a conservative approach; however, these were broken down and moved to construction. Mr. Lovato stated that starting August 1, 2016, invoices would be coded to each project when they are submitted to AMAFCA.

b. AMAFCA Cash & Investments

Mr. Herman Chavez, AMAFCA Finance and Administration Manager, referred the Board to the graph stating that it was very similar to the prior month. May construction invoices are still not showing. Responding to a question from Director Borrego, Mr. Chavez stated that the AMAFCA building and net property is an asset, which comes out on the Audit as an entity wide statement, big assets are not part of the everyday operations, and are not included on the graph(s). Responding to a question from Director Eichenberg, Mr. Chavez stated there is approximately \$46M in the LGIP accounts. Responding to a question from Director Eichenberg, Mr. Chavez stated the rate of return for the month of June is .39 percent.

c. Approval of June 2016 Expenditures

Mr. Herman Chavez, AMAFCA Finance and Administration Manager, presented the June 2016 Expenditure report. He referred the Board to page 2, Journal Voucher 153, showing where construction funds were picking up the Legal expenditures that were recoded to Construction. He stated that the Board was sent the credit card expenditures as part of this item, which did not make the original Board mailout. There were no questions.

Director Brown made a motion to approve the June 2016 Expenditure Report. Director Stover seconded the motion, which passed (5-0).

d. Financial Position Recap June 16, 2016 through July 15, 2016 & Forecast July 16, 2016 through August 15, 2016

Mr. Herman Chavez, AMAFCA Finance and Administration Manager, presented the Financial Position Recap and Forecast. He stated that the General Operations forecast is sitting at approximately \$.5M. He pointed out that insurance payments and various membership dues come out in July. He noted that under Debt Service, both Principle and Interest payments for approximately \$9M from the Bond Sale will be due August 1, 2016. There were no questions.



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Director Brown made a motion that the Board approve the Financial Forecast. Director Borrego seconded the motion, which passed (5-0).

e. Fiscal Agent Funds – Proof of Cash and Savings

Mr. Herman Chavez, AMAFCA Finance and Administration Manager, presented the Fiscal Agent Funds. There were no questions.

**f. Approval of Resolution 2016-09, AMAFCA Fourth Quarter Financial Report
Ending June 30, 2016**

Mr. Herman Chavez, AMAFCA Finance and Administration Manager, stated that the Resolution is a requirement showing the Board acknowledged they have looked at and approved the reports. Legal had reviewed the Resolution. and the State Department of Finance and Administration (DFA) certified AMAFCA's FY-2017 Interim Budget, with the condition that the fourth quarter reports be received in a timely manner.

Director Brown made a motion that the Board approve adoption of Resolution 2016-09, AMAFCA Fourth Quarter Financial Report Ending June 30, 2016. Director Borrego seconded the motion. The motion passed (5-0), on a roll call vote.

g. Official Finding to Delete Unit 106, 2001 Dodge Pickup from Inventory

Mr. Herman Chavez, AMAFCA Finance and Administration Manager, stated that Unit 106, the 2001 Dodge Pickup had a transmission that gave out. The vehicle was planned for deletion. Due to the age of the vehicle, it was not deemed worth repairing. The original plan was to offer it to other government agencies; however, due to the transmission failure, and not wanting to give a problem to another agency, it will be auctioned off. Responding to a question from Director Brown, Mr. Chavez stated that \$500 might be received and that was a very generous guess. Responding to questions from Director Borrego, Mr. Chavez stated that Copart Public Auctions be doing the auction. A minimum price will be put on it after researching scrap dealers. He further stated AMAFCA does not need to accept the bid; it may be run four times.

Director Borrego made a motion that the Board approve deletion / removal of unit 106 from AMAFCA's Capitalized Fixed Asset Inventory. Director Stover seconded the motion, which passed (5-0).



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7. AMAFCA FY-2016 Audit

a. Audit Entrance Conference NMSA (§2-2-2-10(J)) - Closed Session (§10-15-1(H))

Chair Thomson advised that Item 7a was a Closed Session agenda item. Mr. Chavez stated that RPC was present. The State Audit Rule requires all items related to the audit are not part of public information until the State Auditor has accepted the audit. Director Brown made a motion

that the meeting be closed, pursuant to the Open Meetings Act, §10-15-1 NMSA 1978, Subsection H, to preserve the confidentiality of the information to be discussed, and as further described in "*The Open Meeting Act, A Compliance Guide for New Mexico Public Officials and Citizens*," eighth edition, 2015, to discuss the 2016 Audit. Director Stover seconded the motion, which passed unanimously (5-0), on a roll call vote.

Chair Thomson closed the meeting at 10:35 a.m. Chair Thomson asked for a motion to re-open the meeting at 11:08 a.m. Director Brown made a motion that the meeting be re-opened. Director Stover seconded the motion, which passed unanimously (5-0), on a roll call vote. Director Brown stated that the upcoming Audit was discussed and how the Auditors will be conducting the audit. He further stated that no action was taken during the Closed Session.

8. Legal

a. Status Report

Attorney Randy Autio stated that Mr. Lovato had asked Legal to put together a training for AMAFCA employees for the Government Code of Conduct training. There will be two sessions. He further stated that until 2011 the Act did not apply to local government entities. He stated that this training is significant and provides guidelines for receiving gifts, dealing with bidders, contractors, and other engineering employees. There were a lot of good questions and discussions. He made the same training available to the Board so they know what employees are learning. Chair Thomson stated that the two recent Directors received training from Attorney Vanessa Chavez when they started their term. All of the current Board had received the training at some point.



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9. Executive Engineer's Report

Mr. Jerry Lovato, AMAFCA Executive Engineer, highlighted significant activities of the past month:

- **Corp of Engineers (USACE) - Southwest Valley Flood Reduction Project Phase II:** USACE has completed its one-year review of the Pond 187 construction. Mr. Bingham is finishing 187A and the conveyance channel. USACE has done their final inspection and AMAFCA needs to do the Biological Opinion. BernCo and AMAFCA is finishing up. A formal ribbon cutting is anticipated for mid-September.
- **Southern Sandoval Country Flood Control Authority (SSCAFCA) - Joint Field Trip:** Chair Thomson and Mr. Lovato met with the SSCAFCA Executive Engineer and SSCAFCA Board Chair to discuss issues affecting both agencies. The meeting was very enlightening and provided an opportunity to discuss possible joint projects.
- **CO-NM Regional Extreme Precipitation Study - Project Kickoff:** The Dam Safety programs in the states of Colorado (CO) and New Mexico (NM) are in collaboration on a regional study to update the methods used to estimate Probable Maximum Precipitation (PMP). A workshop will be held August 2 through 3 in Denver, CO. An agenda was provided to the Board, which outlined the study parameters and would identify the review board role, Federal Emergency Regulatory Commission (FERC), and responsibilities in the future. The purpose of the study is to develop statewide and site-specific PMP estimation guidelines for the use and benefit of other government agencies, as well as the dam safety community. Responding to a question from Director Brown, Mr. Lovato stated that at the last Board meeting the possibility of a \$50K grant was discussed to make sure AMAFCA had a seat at the table. The Board wanted to hold off putting money into the project and advised that since AMAFCA is part of the Dam Owners Coalition, they should speak for AMAFCA. It was the Board's intention to not step on any toes by doing a \$50K grant. Responding to a question from Director Eichenberg, Mr. Lovato stated that the meeting is less than a week away. There was a brief discussion regarding the meeting being public, out-of-state travel, Board approval of travel, and Board Director attendance versus civil engineers and those with technical expertise who should be attending. The Board agreed that AMAFCA staff should participate, if possible. The Board asked that more information be provided under **Item 23. New Business**.
- **Public Outreach - Moon Mini DMP Public Meeting:** A public meeting was held on July 12. There was not as big a crowd as anticipated; however, the overall public sentiment was



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general appreciation to AMAFCA for studying the area. There was a request from CoA to relocate Pond 1 to another area of the parcel owned by CoA.

Future Public Meetings: A public meeting will be held for the Upper Piedras Marcadas Drainage Management Plan August 4, 2016. A ribbon cutting ceremony is being planned for mid-September for the Southwest Valley Flood Reduction Project Phase II.

Expo New Mexico Parade: AMAFCA will have an entry in this year's EXPO New Mexico parade. More information will be forthcoming.

AMAFCA - Field Engineer Position: Initial interviews for the Field Engineer position had been completed and a second round of interviews are underway. Mr. Lovato met with the Personnel and Salary committee and received clear guidance concerning base rate for the position.

b. Notification of On-Call Services Task Orders

Mr. Lovato referred to his memo for task orders that had been issued the prior month. There were no questions.

Consent Agenda:

Chair Thomson stated that agenda Items 10 and 11 were on the Consent Agenda. Director Borrego made a motion that the Board:

- Authorize the Executive Engineer to acquire a new $\frac{3}{4}$ ton, 4x4, crew cab pick-up in accordance with the NM State Procurement Code; and
- Accept the recommendation of the Selection Advisory Committee and authorize the Executive Engineer to commence negotiations with Bohannan Huston, Inc. for the Boca Negra Watershed Drainage Management Plan Update.

Director Brown seconded the motion, which passed (5-0).

Responding to a question from Director Brown, Mr. Lovato stated that the cost for the new pickup truck is anticipated to be between \$27 and \$30K. Responding to a question from Chair Thomson, Mr. Wagener stated that the State Purchasing contracts expired on June 17, 2016.



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12. 2016 Board of Directors Elections - Approval of Certification of Nomination

Mr. Herman Chavez, AMAFCA Finance and Administration Manager, stated that the Certification of Nomination is standard for all elections. There were no questions.

Director Stover made a motion that the Board approve the Certification of Nomination and authorize the Secretary-Treasurer to sign the same. Director Borrego seconded the motion. The motion passed unanimously (5-0).

13. AMAFCA Telemetry Phase 1 – Authorization to Advertise for Bids

Mr. Kevin Troutman, AMAFCA GIS Manager, stated the project provides for the installation of telemetry at all five gated dams, the Hahn Arroyo, and the North Diversion Channel near the AMAFCA office. AECOM reviewed the equipment specifications to ensure that the latest models for the equipment were identified. The engineer also examined the bid that was received in February to look for errors in their previous cost estimate. To attract a wider range of bidders the ad has been extended for two months.

There was a brief discussion regarding previous concerns with the Telemetry Project and how staff looked at the concerns of the Board and addressed them.

Director Brown made a motion that the Board authorize the Executive Engineer to advertise construction bids for the AMAFCA Telemetry Phase 1 Project. Director Borrego seconded the motion, which passed (4-1). Director Eichenberg voted no.

14. High Desert Homeowners Residential Owner's Association – Presentation to lower the Arroyo Reserve Amount

Mr. Kurt Wagener, AMAFCA Field Engineer, introduced Mr. Chris Lopez, Manager with the Management Company for the High Desert Homeowner's Residential Owner's Association (HDROA), Mr. Tom Murdock, President, and Dr. James Cole, Treasurer for the HDROA. Mr. Wagener stated that since 1990, the HDROA has had in reserve \$50K for each of the five unique easement agreements. Each agreement outlined that the HDROA is responsible for Level One and Level Two maintenance, which included trash removal, pruning vegetation, removal of dead plants, enhancement of vegetation, repair of minor erosions, cleaning culverts / culvert entrances, etc. AMAFCA is responsible for Level Three and Level Four maintenance, which includes repair of large erosions, stabilization of arroyo horizontal and vertical migration, emergency protection of utility crossings, restoration or preservation of the Prudent Line, etc. The agreements also stated that the arroyos are to be kept naturalistic. The biggest easement is at the Bear Canyon Arroyo where it eventually runs into the John Robert Dam. There are riprap and



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concrete structures buried at that facility. The HDROA has an engineer doing inspections that are submitted to AMAFCA for approval. In 2013, an erosion was found that both the HDROA and AMAFCA shared in the responsibility of putting back into place. AMAFCA hauled the dirt and the HDROA contractor, Head's Up Landscaping placed the dirt. The HDROA took care of repairs from their Operations Budget; the Reserve was not tapped. Both the 2014 and 2016 inspections showed that the area(s) were okay. An erosion from a large storm in 2014 was a Level Three or Four so AMAFCA handled it. AMAFCA hauled in dirt, put in filtered fabric, placed riprap boulders, etc. 2015 and 2016 inspection showed everything looked good.

Dr. Cole stated that HDROA and AMAFCA have had a unique relationship. They have always maintained a \$250K Reserve Budget. Historically, they have always taken care of the Level One and Two items from their Operations Budget. In their Operations Budget, they have set aside \$5K for erosion control and \$21K for arroyo/pond maintenance. He further stated in the past 20 years, they have never tapped the reserve.

Mr. Wagener stated that while looking through the agreement, item iv, states, "*The amount of the reserve may be modified after the tenth year by mutual agreement, based upon accumulated experience.*" The budget for Heads Up Landscaping is approximately \$.5M, which is almost 41% of that budget. Mr. Wagener referred the Board to the slide showing the HDROA Budget which showed that they have budgeted the money, noted where the budget was overrun one year (with the huge erosion), and where it was recouped in the Operations Budget. He further stated that while there have been three different people at the Management Company that he has dealt with in the last ten years, they have all been on board with what needs to be done. Mr. Lopez confirmed that was correct. Responding to a question from Director Brown, Mr. Wagener stated that the HDROA requests the Reserve be lowered to \$20K per agreement. The HDROA will put the extra \$150K in a different Reserve (i.e. park/sidewalk repair) or back towards arroyos, etc. The HDROA have set up a Reserve like AMAFCA's Contingency Fund. The HDROA would have to come back to AMAFCA to use the Reserve. Dr. Cole stated that there are two funds, Extraordinary Expense Fund and a Master Expensive Fund in case something did come up. He further stated there are no pressing needs for the reserve money at this time, but would like to put in an area where they could use the money if needed. The Board agreed to have an amendment that would provide that the \$150K would be transferred to a more general contingency or reserve fund for a broader use. Dr. Cole stated he agreed. Responding to a question from Director Brown, Mr. Wagener stated a simple amendment could be done to change the \$50K to \$20K and it will state that a review will be done every five years. Responding to a question from Director Eichenberg, Dr. Cole stated that the remaining subdivision being build is the Wilderness Canon with 19 homes. 604 homes planned for the area have already been built. Mr. Wagener reminded the Board that many of the boulders AMAFCA obtained in the last few months were from Wilderness Canon. Responding to a question from Director Eichenberg, Mr. Lovato stated that the Arroyo Reserve has never been exercised. AMAFCA would like to review every five years so that no one forgets.



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Mr. Wagener stated he will be putting it on the tickler file and will get the amendment to Legal for their review prior to the next Board meeting.

15. City of Albuquerque Projects Update

a. West I-40 Phase IV – Consideration for Approval of Funding Amendment to the Agreement for Multi-use Trail

Mr. Jerry Lovato, AMAFCA Executive Engineer, stated that the joint funding agreement for the West I-40 Diversion Channel Phase IV was approved on June 25, 2016. Amendment number one defined the responsibilities for the funding, design, construction, and maintenance of a multi-use trail that would be built with the West I-40 Diversion Channel Phase IV project from La Presa, along the north side of the channel, to Ladera. Mr. Jason Coffey, CoA Trails Planner for the Parks and Recreation Department, had verified that funding is available for design and construction of the trail for approximately \$315K. The Amendment could not be done until the original contract was signed. Once the Amendment is signed, payment should be received within 30 days for the design and will move forward with construction. Mr. Coffey was present and thanked the Board for considering approval of the amendment. Responding to a question from Chair Thomson, Mr. Lovato pointed out where the volcano will be located, noted it will be visible from the freeway, and stated a sound wall is being installed.

Director Borrego made a motion that the Board approve Amendment Number One with the City of Albuquerque to fund and maintain the multi-use trail to be built with the West I-40 Diversion Channel Phase IV project, substantially as attached. Director Stover seconded the motion, which passed (5-0).

b. Marble Arno Pond – Project Update

Mr. Jerry Lovato, AMAFCA Executive Engineer, stated that the Board had the redline strikeout of the agreement that was received earlier in the month to fund the Marble Arno Pond. Once the agreement is signed and approved CoA will move forward to purchase the property. Once the property is purchased, Mr. Kevin Daggett with CoA is looking at some modifications to AMAFCA's original design. AMAFCA would like to put in a flat well and get ready to relocate the new pump station. Once complete, the temporary Post Office pond will go away, floodplain will be removed, and the property will be sold. AMAFCA will have half interest in the property. The agreement will go through Legal and should be ready for the next Board meeting. Responding to a question from Chair Thomson, Mr. Lovato stated that the CoA Clerk added a change for interim improvements. The project originally was completely phased out to purchase the property, fill the wet well, relocate the pumps, and put in the pump station. CoA is concerned about the rigid schedule so they want interim improvements at this point. Everything else should remain the



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same. Responding to a question from Director Eichenberg, Mr. Lovato stated CoA owns the existing pump station. It has two different lift stations; one is a sanitary sewer lift station that will need to stay. The other is a storm lift station that pumps into the NDC. Responding to a question from Chair Thomson, Mr. Lovato stated that AMAFCA's portion is approximately \$6M. The original improvements from two years ago was \$18M, which include construction of a 30-acre feet wet well and pumps. CoA is looking at a wet well, not doing the pumps, and adding 30-acre feet of storage to address flooding at Central and Broadway as well as in the Martineztown areas. Responding to a question from Chair Thomson, Mr. Lovato stated that a connection would be made at the Lomas Storm Drain, a pump drain put in to the south, and another pump to put in 4th street up to NDC. Mr. Lovato stated that CoA would maintain the facility after it is completed. He reiterated that AMAFCA wants to get the project funded, the post office pond removed, and the property to be sold. There was a brief discussion regarding the possibility of a purchaser constructing something that would be of an interest to downtown and getting the property on the tax roll to generate dollars. The Board thanked Mr. Lovato for getting this moving again after such a long time. Mr. Lovato gave credit to Mr. Daggett with CoA for helping getting the ball running at CoA.

16. Hahn Arroyo Phase II Improvements – Project Introduction

This item was removed from the agenda at the beginning of the meeting.

17. AMAFCA Field Highlights

a. Field Report

Mr. Kurt Wagener, AMAFCA Field Engineer, gave a report of various projects and events over the past month.

The slides opened with a picture of a burrowing owl at the Powerline Channel. Responding to a question from Chair Thomson, Mr. Wagener stated the owl was not from one of AMAFCA's owl houses. The presentation continued with slides of the retractable bollard at the NDC Shared use path. Mr. Wagener thanked Mr. Jason Coffey with CoA Parks and Rec for his help with the retractable bollards that Mr. John Barncastle has had issues with on the CoA bike trails. The presentation continued with a sediment sale for 5-Js at the Tijeras Arroyo. Various slides of where the AMAFCA crew is doing access control, fall protection, and water quality protection at the NDC at I-40. Mr. Wagener stated that AMAFCA crew supplied the welding and the New Mexico Department of Transportation supplied the panels. The same type of access control, etc. is being done at the Embudo Channel at Carlisle. The presentation continued with slides of the AMAFCA interns doing levellogger work, AMAFCA carbonite markers installed at AMAFCA facilities, mechanical vactor cleaning of the water quality structures, and AMAFCA crew doing access



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control at the Calabacillas. Slides and video taken at the Piedras Marcadas Water Quality Structure (PMWQS) were viewed. Responding to a request from Chair Thomson, Mr. Wagener stated that Mr. Kevin Troutman, AMAFCA GIS Manager, took with the video at the PMWQS with the drone. The presentation continued with various slides of the Albuquerque Health Partners Clinic pipe penetration, CoA Osuna Road Widening (which should be open soon), and Singer Road Widening projects. Mr. Wagener stated that at the Singer Road Widening Project the on one anger cast pile they were only able to install the rebar cage down to 52 feet versus the 61 feet originally planned. After drilling the first area, the machine hung up as they would putting the cage in. They put the vibrator on top of the cage and could not get it all the way down. The super plastersizer (SP) utilized was the wrong one. The next SP was the correct type. The structural engineer is assessing what will need to done with the cage that was not installed all the way down. The presentation continued with a drone picture of the APS RFK Pedestrian Bridge, numerous slides of the Agency and Area-Wide Contract for the CoA Academy Hills Park and Channel. Mr. Wagener stated that Mr. Kevin Daggett with CoA located \$90K for this project. The presentation continued with slides of the Agency and Area-wide Contract at the North Pino Water Quality Structure where screens were stolen and were being reinstalled/welded all around, AMAFCA NDC Floor Overlay, and the Cabazon and North Domingo Baca Dam Inspections with Mr. Jason Casuga and Ms. Alicia Lopez (two new employees) from the Middle Rio Grande Conservancy District. Mr. Wagener pointed out that Ms. Alicia Lopez was a former student of Chair Thomson. The presentation continued with a slide of Mr. James Fahey, Jr., SSCAFCA Board Chair, Mr. Charles Thomas, SSCAFCA Executive Engineer, along with Mr. Jerry Lovato, AMAFCA Executive Engineer, during a recent field trip of SSCAFCA/AMAFCA facilities, a slide showing Director Stover at the field trip for the Southwest Valley Flood Reduction Project, and closed with a picture of the sun setting at Pond 187.

b. Construction Report

Mr. Kurt Wagener, AMAFCA Field Engineer, referred to the Construction Report. There were no questions.

18. Real Estate

a. AMAFCA Designee at City of Albuquerque – Appointment of Primary and Alternate Designees

Ms. Lynn Mazur, AMAFCA Development Review Engineer, stated that since the 1975 agreement, there has been an AMAFCA Designee from CoA who is authorized to act on AMAFCA's behalf on grading and drainage plans, subdivision plans, and plat approvals within CoA's jurisdiction. Typically, the designee signs off on plans and plats that do not abut AMAFCA's property. This is a benefit to the public since they do not need to make an extra trip to get an AMAFCA signature.



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It also saves staff's time in trying to schedule signature sessions. Mr. Curtis Cherne, former CoA Designee, took a new position as the Stormwater Quality Engineer. Mr. Abiel Carrillo, P.E. was hired as the City Hydrologist in October 2015. He has worked as an engineer in the Albuquerque area for 11 years and is familiar with the drainage infrastructure. After serving on the City Development Review Board and attending AMAFCA Board meetings, he has become very familiar with AMAFCA, its policies, procedures and facilities. Mr. Shahab Bazar is familiar with AMAFCA's facilities and has officially been named the CoA Engineer. Chair Thomson welcomed Mr. Carrillo and Mr. Bazar.

Director Borrego made a motion that the Board appoint Abiel Carrillo, P.E., as the primary AMAFCA Designee, and Shahab Bazar, P.E., as the alternate Designee. Director Eichenberg seconded the motion, which passed (5-0).

19. South Broadway Drainage Management Plan Reconsidered – Comparison of 1999 and 2013 Plans

Mr. Bradley L. Bingham, AMAFCA Drainage Engineer stated that last year, Director Stover was contacted on numerous occasions about flooding issues south of the San Jose Business Park. Director Stover requested that staff investigate planning documents and infrastructure in the area to identify if any problems existed. The 1990 and 2013 documents were reviewed and there were considerable differences.

Mr. Bingham introduced Mr. Jerrod Likar with Huitt-Zollars. Part of the presentation included the following:

1990 Study:

- Used SWMM computer program to model hydrology and hydraulics of street flow, channel flow, pipe flow, pump hydraulics
- 10-year and 100-year 6-hour rainfall events modeled
- Existing and developed conditions models prepared
- Recommended a North Detention Pond and a South Detention Pond. Also recommended large storm drains in Broadway
- Ponds to form part of six collective Improvement Projects for South Broadway Sector
- South Detention Pond – three possible locations

2013 Study:

- Objective: to revise 1990 DMP, update hydrology, add storm sewer systems, make revisions
- Used SWMM computer program to model hydrology and hydraulics



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- 100-year 6-hour and 24-hour rainfall events modeled
- Existing and developed conditions models prepared
- Existing South Broadway, Kathryn, Mecham ponds incorporated into model
- Six hydraulic subsystems to cover the study area
- Six Improvement Options developed to reduce/eliminate flooding caused by 100-year 24 storm

Main differences:

- 1990 study existing conditions 100-year peak discharge into San Jose Drain = 890 cfs
- 2013 study existing conditions 100-year discharge at same point = 430 cfs
- Difference attributed to changed hydrologic parameters since 1990 DMP
- 1990 DMP used NOAA Atlas 2
- 2013 Study used NOAA Atlas 14
- 2013 Study CN values determined using ArcMap calculated for the pervious areas of each watershed

Mr. Bingham advised staff has found a number of issues in the area with respect to drainage. Staff feels further study is warranted. The Outfall or ponding areas need to be finished, finish off the basin, and get the right infrastructure in place. Mr. Likar stated one of the three options from the 1990 Study is no longer viable due to development. Mr. Lovato stated that CoA did the study in 2013, but left out that particular area. CoA is purchasing land near the old GE site. This is an opportunity to work with CoA to take care of a big drainage issue in the San Jose community. Responding to a question from Director Brown, Mr. Bingham stated that if the 20-acre feet of storage from the entire watershed can be diverted into the pond, and if the 350 cfs was to discharge into the San Jose Drain, it would not only keep the drain from being overtaxed, it would allow a place to point the water with upstream infrastructure property directed into the pond. The pond itself will not solve the problem since additional storm drains will be needed. The amount of hydrology identified and the capacity of the drain itself from the original study is appropriate.

Responding to a question from Chair Thomson, Mr. Bingham stated that improving the 84-inch pipe in Broadway would mean putting in a bigger or parallel storm drain. Responding to a question from Chair Thomson, Mr. Lovato stated the 30-acre feet for the wet well includes the area being discussed. Public input received from four years ago was provided to CoA for the 2013 study to see if they can put in the ponds. If ponds can be put in, they would allow the peak flow out of the San Jose drain and will move the water in the right direction. Mr. Bingham stated that the South Broadway Pond drains out of the watershed. Director Stover thanked staff for looking into these issues. Responding to a question from Director Stover, Mr. Bingham stated that in order to help with flooding in Martineztown, a storm drain would be needed in Broadway as well as a number of additional storm drains. There is a lack of approximately 400 inlets in the area. The street network is part of the system. Responding to a question from Director Borrego, Mr. Bingham



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stated that the work BernCo is doing is not part of the same area and they are two separate systems. Mr. Lovato mentioned that Ms. Lynn Mazur, AMAFCA Development Review Engineer, had included the area of concern into the Southeast Valley Drainage Management Plan for south 2nd street and Valle de Oro. Responding to a question from Director Borrego, Mr. Bingham stated the pump station runs to the Riverside Drain and pointed out where the flows from Cesar Chavez might run. Responding to a question from Chair Thomson, Mr. Lovato stated that staff would like to approach the CoA and provide the information that AMAFCA has. The Board acknowledged Albuquerque City Councilor Isaac Benton was in the audience. Councilor Benton thanked the Board and stated that taking care of the flooding will solve more than one problem for the localized area. He further stated that the Albuquerque Police Department is in the process of purchasing the old GE site for park / store impound vehicles. The parking lot is bigger than needed and there have been discussions with the neighborhood for sports fields, ponding, etc. Director Stover thanked Councilor Benton for attending. Chair Thomson stated that there were a number of CoA staff present who understand the problems and acknowledged that AMAFCA is willing to work with CoA and Councilor Benton on the project.

20. Resolution 2016-10 – Adoption of the San Mateo to Moon Mini Drainage Management Plan

Mr. Bradley L. Bingham, AMAFCA Drainage Engineer, stated that a public meeting was held on July 12, 2016. Various options were discussed at the public meeting and CoA asked to revise the location for one pond. The Resolution had been reviewed by Legal and is a standard Resolution for Board approval. Chair Thomson stated that he attended the public meeting. He complimented CoA staff and advised the meeting was well run. He mentioned some neighbors outside the study area were concerned the study area was not big enough. Responding to a question from Director Eichenberg, Mr. Bingham stated CoA would be asked to adopt the San Mateo to Moon Mini Drainage Management Plan by putting it in their Master Plan.

Director Brown made a motion that the Board approve adoption of Resolution 2016-10, Adoption of the San Mateo Moon Mini Drainage Management Plan. Director Borrego seconded the motion. The motion passed (5-0), on a roll call vote.

21. Bernalillo County

a. Ortega / Garduño Storm Drain – Consideration for Approval of the Cost Share Agreement between Bernalillo County and AMAFCA for Design and Construction

Ms. Lynn Mazur, AMAFCA Development Review Engineer, stated the agreement provided to the Board was the final cost share agreement with BernCo and the Village of Los Ranchos (VoLR)



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for the Ortega and Garduño Storm Drain Project. The agreement was approved and signed by Board of the VoLR and will be presented for approval at the Bernalillo County Commission meeting in August. Ms. Mazur stated that Mr. Nolan Bennett with BernCo was present.

The Board commended Mr. Nolan Bennett and BernCo staff for taking the lead on the project.

Director Brown made a motion that the Board authorize the Board Chair to execute the Cost Share Agreement between AMAFCA, Bernalillo County, and the Village of Los Ranchos for the Ortega and Garduño Storm Drain Project. Director Stover seconded the motion. The motion passed (5-0).

b. Southwest Valley Flood Reduction Project Drain Management Plan – Consideration for Approval of the Joint Funding Agreement with Bernalillo County for the development of a Hydraulic Model

Mr. Bradley L. Bingham, AMAFCA Drainage Engineer, stated that Mr. Brad Catanach with BernCo was present. Mr. Bingham mentioned the need for the hydraulic model for the Southwest Valley Flood Reduction Project Drain Management Plan SWVFRP DMP was discussed last month. The last piece is the joint funding agreement, which will allow for and fund the study for the plan. The agreement had been reviewed by Legal. Mr. Catanach thanked the Board for considering the request for a joint funding agreement. Responding to a question from Chair Thomson, Mr. Bingham stated that it is a 50/50 cost share between AMAFCA and BernCo. Chair Thomson asked that the funding agreement be amended to include wording that BernCo will include a Section in the Joint Funding Agreement in Section 3, under County agrees to. Attorney Autio stated that the way the contract is designed it creates an obligation for BernCo. He further stated that adding the language would clarify, but it would not be required. Chair Thomson asked that staff consider adding the change. Mr. Bingham stated he would be adding the verbiage, per the Board's request.

Director Brown made a motion that the Board approve the joint funding agreement for the Southwest Valley Flood Reduction Project Drain Management Plan with Bernalillo County, as amended. Director Stover seconded the motion. The motion passed (5-0).

c. Dog Head Fire – Presentation by Bernalillo County PIO

Mr. Lovato introduced Ms. Catherine Lopez, BernCo Communication Services Specialist. Along with Ms. Lopez, Ms. Tracy Dingman, Website Administrator and Ms. Wendy Schwingendorf, Website Content Editor, were present and provided information how BernCo kept the community updated on the Dog Head Fire in June 2016. The Dog Head Fire started on June 14, 2016 in Torrance County, approximately six miles northwest of Tajique, and on June 15 crossed over into



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Bernalillo County. In total, 17,912 acres were burned. They stressed that once it was known that this was a major fire, and while there were many agencies involved, the FEMA Incident Command System kicked in.

Part of their presentation(s) included the following:

- Homeland Security / Joint Incident Command (JIC) had briefings
- The Incident Command System is a certified program nationwide
- Information flowed in and out of the room through the applicable agency liaisons
- A Dog Head Facebook page was set up
- One person was designated to push the information out on Facebook
- By using Facebook the public was able to be interactive and they were directed where they needed to go in real time
- BernCo had two of their social media staff working 12 hour shifts at a time with 6 hours off
- Facebook was an effective way to communicate with the media and the media pushed some of the same BernCo posts
- After the event people were pointed to the BernCo.gov/dogheadfire page on the BernCo website

Responding to a question from Director Brown, Mr. Dan McGregor, BernCo Natural Resources Manager, stated that ¾ of the 16,000+ acres burned were on US Forest Service land. He further stated that when the fire took place BernCo was in the process of thinning the area by the Pueblo of Isleta and the Chilili land grant. Responding to a question from Director Borrego, Attorney Autio stated that the Las Conchas Fire in 2011 affected approximately 50,000 acres. Mr. Kurt Wagener, AMAFCA Field Engineer, stated that all AMAFCA employees have been trained on the 100a and 700a courses. He further stated that the newly hired employee received the training as well. Where the courses were once in a classroom setting AMAFCA now utilizes the FEMA online courses.

Chair Thomson asked how staff would handle evacuations during a flood. Mr. Lovato stated that there is no way AMAFCA can carry out an evacuation. If there were a need to evacuate 30,000 people, it would take 16 hours for AMAFCA, which is excessively long. The Emergency Managers are the system to get the word out. Once a JIC goes into effect it hurts their efforts to have others intervene. Mr. Wagener stated that when a JIC is in place, AMAFCA becomes a resource. Incident Commanders are in charge, not AMAFCA. He further stated that Mr. Jeff Willis, AMAFCA Real Estate Manager, would be at the Command Center to act as the liaison between Incident Command and AMAFCA. Mr. Wagener would be in the field. He further stated that AMAFCA exercises the Emergency Action Plan for the dams. Director Borrego stated that



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the topic warrants additional discussion. She further stated that AMAFCA might want to consider having a Public Information Officer in the future and it is better to be proactive than reactive.

22. Unfinished Business

None.

23. New Business

Pertaining to **Item 9a. Executive Engineer's Report, CO-NM Regional Extreme Precipitation Study**, Mr. Lovato stated that there is a phone in option. He further stated he would like to utilize either option. The Board agreed to authorize in advance the expenditure for out of state travel or phone in option, as needed.

Chair Thomson stated there will be a memorial (date unknown) for Mr. Jeff Mortensen. He further stated that Mr. Mortensen was a very good friend, a prominent engineer, and his company, High Mesa Consulting, had done a lot of work for AMAFCA. He expressed the sorrow of the Board to the family and friends of Mr. Mortensen.

24. Adjourn

There being no further business to come before the Board, Chair Thomson adjourned the meeting at 1:15 p.m.

Ronald D. Brown, Secretary-Treasurer, 8/25/16