



**Albuquerque Metropolitan  
Arroyo Flood Control Authority  
Special Meeting Minutes  
May 6, 2004**

**Page 1**

**1. Call to Order and Roll Call**

Chairman Eichenberg called the Special Board Meeting to order at 9:02 a.m. Thursday, May 6, 2004. Roll was noted as follows:

Directors present: Chairman Tim Eichenberg  
Director Ronald D. Brown  
Director Daniel Hernandez  
Director Daniel Lyon

Others present: John Kelly, Executive Engineer  
Sam Bregman, Attorney  
Staff

A quorum was present.

**2. Approval of Agenda**

John Kelly, AMAFCA Executive Engineer, stated that there was an additional handout for Item 6, and an informational item about the South Valley Pride Day recreation license identified as Item 11, New Business.

Director Hernandez made a motion to approve the agenda. Director Brown seconded the motion, which passed unanimously (4-0).

**3. Meetings Scheduled**

- a. **May 27, 2004, 9:00 a.m. – Regular Meeting**
- b. **June 23, 2004, 9:00 a.m. – Regular Meeting**

Mr. Kelly stated that the date of the June 23, 2004 meeting had been confirmed at the last Board meeting, but that the May 27<sup>th</sup> meeting had not. After brief discussion, Director Lyon made a motion that the Board defer discussion of the May 27, 2004 Board Meeting until later in the meeting. Director Hernandez seconded the motion, which passed unanimously (4-0).

**4. City of Albuquerque Drinking Water Project – Approval of Ferric Chloride Line within AMAFCA North Diversion Channel Right of Way**

Mr. Kelly introduced John Stomp, the City of Albuquerque Water Resources Manager, and Bill Zimmerman of HDR, the Design Engineer on this project.



**Albuquerque Metropolitan  
Arroyo Flood Control Authority  
Special Meeting Minutes  
May 6, 2004**

**Page 2**

Jerry Lovato, AMAFCA Field Engineer, presented a request from the City to install a ferric chloride pipeline within the AMAFCA North Diversion Channel right of way. Discussion followed.

Mr. Lovato stressed that care was used to ensure public and AMAFCA crew safety by designing the project with a double-walled pipe to contain any leaks. He stated there will be minimal impact to the bike trail during construction of the line, and none at all after the line is installed.

Director Lyon made a motion to authorize the Executive Engineer to sign the license agreement with the City of Albuquerque for the placement of a 4-inch ferric chloride pipe line within the AMAFCA right of way along the North Diversion Channel.

Director Hernandez seconded the motion, which passed unanimously (3-0). Director Brown recused himself and did not vote.

**5. Kinney Dam / North Domingo Baca Park Channel – Briefing by City of Albuquerque**

Mr. Kelly introduced Colleen Frenz, of the City of Albuquerque Department of Municipal Development.

Ms. Frenz gave a briefing on master planning for the community park to be located at the North Domingo Baca Arroyo above Kinney Dam. Ms. Frenz stated that the first phase of this park was acquisition of land in the floodplain, which began ten years ago and ended in 2002.

She stated that the second phase was the funding, planning, design and construction of utility extensions and street development. These projects are currently in construction.

Ms. Frenz then briefed the Board on phase three, which is stormwater conveyance through the park. She showed several maps of the proposed alignment of the channel, showing proposals for functional, recreational, aesthetic/cultural, and educational opportunities.

She stated that recreational trends have changed since the original plan had been created, so the community would be involved in deciding which recreational facilities they would like to see incorporated into the park. Ms. Frenz stated that if they desired, an AMAFCA Board Member or Members could be involved in the process of planning recreational facilities for the park. Ms. Frenz invited the Board to appoint a member to the public advisory team that she will be forming to review the park master use concepts.



**Albuquerque Metropolitan  
Arroyo Flood Control Authority  
Special Meeting Minutes  
May 6, 2004**

**Page 3**

The Board asked questions and gave feedback to Ms. Frenz.

Chairman Eichenberg asked for a cost comparison of the channel envisioned in the proposed park, and a straight concrete channel. Chris Green of Consensus Planning, the City's consultant on the project, stated that a straight, open concrete channel would cost about \$600,000.

Director Lyon asked how the 50-50 split came about. Ms. Frenz stated that this came about as a part of the discussion about whether to do just a straight-line channel or something that would be a community asset. Mr. Kelly added that it was similar to the Amole Arroyo through Westgate Park, which was essentially a 50-50 split with the City, although eventually the City negotiated a lump sum contribution instead.

Director Brown asked about the cost-effectiveness of putting parking over an area of box culvert, and suggested the City look into this as they furthered their design. He also stated that he felt AMAFCA needed more input into the facilities rather than just handing over some money and having other interest groups make the design decisions.

**6. La Cueva Inlet Storm Water Quality Facility – Briefing by ASCG, Inc.**

Mr. Kelly introduced Clint Dodge and Karen Jacobsen of ASCG, and Elizabeth Reardon, Landscape Architect with Morrow, Reardon, Wilkinson, Ltd., and explained their involvement in this project.

Loren Mainz, AMAFCA Drainage Engineer, introduced the project then Mr. Dodge and Ms. Reardon briefed the Board on the project at the Balloon Fiesta Park.

Mr. Dodge stated that the project began as strictly a water-quality facility, with park-like elements added later, after the City requested a world-class facility.

He introduced the various elements to the proposed project. The first two features are a diversion and debris removal facility, and a constructed wetland area pond.

Director Brown cautioned against the use of the term "wetland pond" or "wetland area," stating that it should be called a "water quality enhancement feature," due to the consequences of calling an area a wetland. He stated that federal regulations restrict any changes to a designated wetland, including prohibiting maintenance. Mr. Mainz concurred.

Mr. Dodge discussed the dry extended detention basin (normally dry), which could be used for parking during Balloon Fiesta, and overflow water detention when needed.



**Albuquerque Metropolitan  
Arroyo Flood Control Authority  
Special Meeting Minutes  
May 6, 2004**

**Page 4**

Director Hernandez asked about the effect of a sudden downpour during Balloon Fiesta. Mr. Dodge pointed out a control valve that would shut off the water transfer culvert in that situation, preventing flooding of the dry extended detention basin (DEDB) if it were being used for parking.

Mr. Dodge next presented the fourth element of the project, an educational feature with recreational trails and signage around the water quality enhancement pond.

Ms. Reardon discussed the next four elements of the proposed improvements to the area. These include an access road, parking, a trail system and perimeter bike trail which would connect the pond area to the museum area, reinforced turf in the "Daily Launch" area and the DEDB to allow for parking, additional landscaping and trails, and plaza areas and picnic sites.

Mr. Kelly stated that the total project cost as envisioned would be \$3 million. The first \$1.7 million would provide a world-class water quality feature, and the remaining \$1.3 million would add world-class public use facilities.

The Board asked questions and provided feedback regarding the project. They were concerned that the museum parking, plaza areas and picnic sites did not relate to AMAFCA's mission.

The Board consensus was that it is willing to fund the first \$1.7 million of the project (the elements directly related to AMAFCA's mission), but AMAFCA would need City participation if the City wants the rest of the project to be built.

**7. Calabacillas Arroyo Trails Master Plan – Briefing by City of Albuquerque**

Mr. Kelly introduced Colleen Frenz of the City, and George Radnovich of Sites Southwest, who gave the Board a briefing on the initial concept for the Calabacillas Arroyo Trails Master Plan.

Ms. Frenz and Mr. Radnovich presented the results of the initial study of the Calabacillas Arroyo area, indicating opportunities available along the arroyo for future trails and parks, including some handicap-accessible trails. These trails would connect two existing parks and continue on to the Bosque, and might include bridges to connect trail sections across the arroyo.

Director Hernandez had a question about putting recreational trails in an arroyo in light of AMAFCA's Ditch Safety program. Mr. Kelly addressed his concern, stating that as the community is becoming more aware of ditch safety, the education program has been refined. The public will need to be educated about safe trail use as trails are built.



**Albuquerque Metropolitan  
Arroyo Flood Control Authority  
Special Meeting Minutes  
May 6, 2004**

**Page 5**

Chairman Eichenberg recused himself from the discussion of this matter.

Discussion followed, chaired by Director Hernandez. Directors Hernandez, Brown, and Lyon asked questions, made comments, and provided feedback to Ms. Frenz and Mr. Radnovich regarding the Master Plan.

**8. 2004 Balloon Fiesta – Approval of License Agreement with City of Albuquerque**

Martin Eckert, AMAFCA Real Estate Manager, presented a request for approval of the 2004 Balloon Fiesta license. He stated that the license is similar to previous licenses, including changes recommended by attorney Sam Bregman. Sandy Zuschlag of the City of Albuquerque was present in the audience to answer any questions.

Director Hernandez made a motion that the Board authorize the Chairman to execute the 2004 Balloon Fiesta License, which was seconded by Director Brown.

After brief discussion, the motion passed unanimously (4-0).

**9. FY-05 Drainage Facility Planning Review**

**a. Review of Proposed Planning Projects**

Mr. Kelly briefly presented six planning projects proposed for FY-05, for the Board's review.

These included the Amole Dam Gravity Outlet Evaluation, Drainage Management Plans for the Don Felipe Dam Watershed, the Raymac Dam Watershed, and the McCoy Dam Watershed, a Dam Safety Analysis of Ladera Dams 12 and 13, and Dam Emergency Action Plans for each of AMAFCA's major dams.

Mr. Kelly stated that the Amole Dam Gravity Outlet Evaluation is something that AMAFCA staff has looked at for a number of years. Draining the Amole Dam by gravity to the Corps project would reduce the capacity requirement of the future Guac Dam by about 50%. The evaluation study would thoroughly evaluate this scenario, provide accurate cost estimates, and provide a framework for discussions with the NM State Engineer Office and the Corps of Engineers.

Mr. Kelly stated that the Drainage Management Plans for the Don Felipe, Raymac, and McCoy Watersheds are necessary because these watersheds have not been restudied since the respective dams were constructed. These areas are beginning to develop and master plan drainage planning is needed to guide infrastructure development.



**Albuquerque Metropolitan  
Arroyo Flood Control Authority  
Special Meeting Minutes  
May 6, 2004**

**Page 6**

He stated that the Dam Safety Analysis for Ladera Dams 12 and 13 is necessary because the NM State Engineer Office Dam Safety Bureau has changed their requirements for dam safety. He stated that they have requested that AMAFCA re-evaluate these dams for changed conditions, especially regarding development below the emergency spillways.

Mr. Kelly stated that the Dam Safety Bureau has requested that AMAFCA evaluate the capacity of the emergency spillways to pass the PMF (Probable Maximum Flood) flow, or provide a dam breach analysis and an incremental damage assessment to support passing less than the PMF flow.

He stated that new criteria from the NM State Engineer Office will also require a large number of Dam Emergency Action Plans to be drawn up within the next few years. The plans are due December 31, 2007 for "high hazard" dams, and December 31, 2009 for "significant hazard" dams.

Mr. Kelly stated that there is a hearing in June where he will be asking for an extended timetable for Dam Emergency Action Plans for flood control dams.

**b. Review of Draft Projects List**

Mr. Kelly next presented the draft projects schedule. He had provided a spreadsheet of the proposed projects, as well as a booklet of detail sheets for each project.

Director Hernandez expressed that the format of the draft projects schedule, in conjunction with the proposed project spreadsheet, made it very easy to review proposed projects. Mr. Kelly stated that the praise belonged to Christy Burton, Loren Meinz, Clint Dodge, and Karen Jacobsen, who put the information together.

Mr. Kelly briefly discussed each of the proposed projects. The first was the Bear Canyon Inlet Storm Water Quality Facility. He stated that it could be funded out of the remaining bond obligation. It should probably be built this fall.

Mr. Kelly next went over the La Cueva Arroyo Storm Water Quality Facility. Given the earlier discussion about this project, Mr. Kelly stated that he would cut the funding down to Design in FY-05, and Construction in FY-06, with a total expenditure of \$1.7 Million for this project.

The next project he discussed was the Vineyard Inlet Storm Water Quality Facility, which would be a small facility similar to the one at North Pino. Mr. Kelly stated that he hopes to



**Albuquerque Metropolitan  
Arroyo Flood Control Authority  
Special Meeting Minutes  
May 6, 2004**

**Page 7**

have one of the on-call engineering firms design the water quality facility this fall, and have it built in Spring 2005.

Mr. Kelly next reviewed the North Domingo Baca Channel Upstream of Kinney Dam. He stated that if the City is able to share in the cost 50-50, it could go into construction next spring.

He stated AMAFCA has a conceptual design on the North Camino/El Camino Arroyos Avulsion One, which is cheaper than the other option, a major detention dam near Eubank on the El Camino Arroyo. He stated that this project is scheduled two years out to allow time for agreements with the Pueblo of Sandia and the Forest Service.

Mr. Kelly covered the La Cueva crossings at Wyoming and Eagle Rock next. He anticipates that the City will be pressured to build crossings at these streets soon, due to development in the area. He stated that a single box culvert between the two crossings will be more economical than two bridges transitioning to an open concrete channel between the bridges. He added that the City would be the lead, and AMAFCA would fund the culvert between the two bridge crossings, tying into the existing channel

He stated that on the east side, water quality facilities are needed at every inlet to the North Diversion Channel, including the Domingo Baca Storm Water Quality Facility.

Mr. Kelly stated that there is a big need for a storm drain to be built down Osuna, as currently the roadway carries 300 cfs during rainstorms, which is a traffic hazard. He would like to see AMAFCA provide some seed money for design of the project in FY-08. He stated that the storm drain would likely run down the open area in the middle of the roadway rather than under the road itself.

The next proposed project he covered was the San Mateo Reliever Storm Drain, which would remove floodplain from existing homes in the surrounding residential areas. He stated that this project would be done in cooperation with the City of Albuquerque, tentatively scheduled for FY-08.

Mr. Kelly brought up the proposed Tijeras Arroyo Bank Protection project, which would construct spur dike(s) along the south bank of the Tijeras Arroyo adjacent to the Hidden Valley subdivision. He stated that the Tijeras is subject to meandering in this area, and a dike or dikes would prevent erosion of the existing embankment.

The Board discussed the proposed Tijeras Arroyo project in some depth, expressing concern that this project should move quickly if it is funded.



**Albuquerque Metropolitan  
Arroyo Flood Control Authority  
Special Meeting Minutes  
May 6, 2004**

**Page 8**

The next proposed project that Mr. Kelly discussed was two water quality facilities on the South Diversion Channel. He stated these would be similar to the baffle chute design being put in at Bear Canyon, and would be designed after seeing Bear Canyon in operation for a season or two.

Mr. Kelly next covered the West I-40 Phase III Diversion Project, which is currently under construction, and the Lyon Boulevard Storm Drain, which has funds for design and construction management earmarked for FY-05 and 06.

He stated that a water quality facility for the Black Arroyo Dam is also planned for FY-05, and reminded the Board of the Paseo del Norte/Coors Detention Pond project, which would construct a detention pond, water quality facilities, and associated drain pipe connections for drainage improvements to Coors at Paseo del Norte.

Mr. Kelly also mentioned the Boca Negra Detention Dam and Outfall Pipe. He stated that this project would provide conveyance and erosion protection from the upper west mesa. He added that by collecting waters from the upper Boca Negra Watershed, this project would protect existing capacities of downstream improvements as the upper west mesa is developed.

He stated that the total project is about \$3 million, with right of way at \$1 million and construction at \$2 million. Discussions with the engineer representing owners in the area have centered around the land owners providing the right of way, and then splitting the construction 50/50 with AMAFCA, for a \$1,000,000 AMAFCA contribution. He stated that there would be a detailed briefing on this project at a future Board meeting.

Next, he stated that a water quality facility retrofit would be done at the Swinburne Dam to control the delivery of floatables and debris to the dam pool, to meet the requirements of the EPA storm water permit, and to improve downstream storm water quality and reduce maintenance costs.

Mr. Kelly then discussed the proposed Paseo del Norte Storm Drain, which would convey 1,100 cfs from the upper west mesa to the existing Middle Branch Piedras Marcadas Channel. He stated this would be done in conjunction with City of Albuquerque road improvements.

Discussion followed.

The Board was concerned that AMAFCA scheduling this project might indicate the Board has taken a position on extending Paseo del Norte through the Petroglyph area. Directors Hernandez and Brown suggested that this project be scheduled "on condition that extension of Paseo del Norte is approved," and with an unknown year. Director Lyon and Chairman Eichenberg were in agreement.



**Albuquerque Metropolitan  
Arroyo Flood Control Authority  
Special Meeting Minutes  
May 6, 2004**

**Page 9**

Other projects that Mr. Kelly discussed included a shotcrete lined channel along Amole Arroyo from Amole Dam to Amole Bend, and a primary spillway gravity outfall pipe from the Amole Dam east to the Isleta Drain in conjunction with the Corps of Engineers' Southwest Valley Project.

He also discussed the need for diversion channels to collect the flows from north and south of McCoy Dam, and the need for the Johniece Storm Drain and a small detention pond, which would remove floodplain and drainage problems from this area, and the Hartline Storm Drain.

Mr. Kelly stated that the Black Mesa Pond and Pump Station and the SW Valley Drainage Improvements would be AMAFCA's major contributions to the two Corps of Engineers' projects. He stated the funding amounts are drawn directly off funding agreements with the Corps. He added that the Southwest Valley Ponds right of way acquisition is also a part of these funding agreements with the Corps.

He stated that the Isleta Phase I Tributary Storm Drains and La Familia Surge Pond would install new storm drains to address flooding in the neighborhoods west of Isleta, and remove floodplain. He added that in Isleta Phase II, AMAFCA would fund only the drainage improvements in this area, citing a \$3 million AMAFCA contribution towards a \$6 million drainage estimate.

Mr. Kelly stated that there would probably also be several small miscellaneous drainage improvement projects that AMAFCA would be approached about in the South Valley area.

He stated that discussions are still ongoing with the Village of Los Ranchos regarding the 4<sup>th</sup> Street Storm Drain and Detention Ponds.

Mr. Kelly stated that in the North Valley, AMAFCA would be involved in right of way acquisition for the master planned expansion of detention ponding in the Paseo del Norte corridor, and there would be several small miscellaneous drainage improvements in the North Valley, similar to the South Valley.

He also presented the likely time frame for AMAFCA funding for the planning projects that AMAFCA will be involved in.

Mr. Kelly stated that these proposed projects total \$34 Million. He also said that with the money AMAFCA has right now, plus a \$20 Million bond issue in 2004 and a \$10 Million bond issue in 2006, these projects could be done.



**Albuquerque Metropolitan  
Arroyo Flood Control Authority  
Special Meeting Minutes  
May 6, 2004**

**Page 10**

Mr. Kelly stated that he would take the Board's input at today's meeting into consideration and will bring the revised project schedule back to the Board at the June meeting.

He stated that there will be more project briefings from interested parties at the May 27, 2004 Board Meeting.

**10. Unfinished Business**

Sam Bregman gave the Board a brief update on the recently-concluded Chavez trial. He stated that the judge will make a decision on the trial within 30 days.

There was no other unfinished business before the Board, except the possible rescheduling of the May 27, 2004 Regular Board Meeting, which Chairman Eichenberg stated would be considered in a few minutes.

**11. New Business**

Mr. Kelly stated that Item 11 was notification to the Board about a short term recreational license that had been issued recently. He stated that the La Familia property will be used as a staging area for the South Valley Pride Day Parade to be held Saturday, May 8, 2004.

**12. Items from the Floor / Public Comment**

There being no items from the floor and no public comments, the Board returned to Item 3. After discussion about various alternative dates for the May 27 meeting, all of which were rejected, Director Lyon made a motion to accept the meeting schedule as posted. Director Brown seconded the motion, which passed unanimously (4-0).

**13. Adjourn**

With no further business to discuss, Chairman Eichenberg adjourned the meeting at 10:56 a.m.

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Ronald D. Brown, Secretary-Treasurer 05/27/04

Recorded by Pam Woodruff, Secretary to the Executive Engineer