



## City of Broken Arrow

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220 S 1st Street

Broken Arrow OK

74012

### Minutes Drainage Advisory Committee

*Chairperson Mary Ann Colston*  
*Vice Chairperson Lori Hendricks*  
*Member Craig Thurmond*  
*Member Johnnie Parks*  
*Member Donna Wallace*  
*Member Jason Featherngill*  
*Member Denise Mason*

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Monday, August 31, 2020

6:00 PM

Council Chambers  
220 S. 1st St.  
Broken Arrow, OK 74012

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#### 1. Call to Order

Committee Member Thurmond called the meeting to order at approximately 6:00 p.m.

#### 2. Roll Call

**Present:** 5 - Jason Featherngill, Donna Wallace, Johnnie Parks, Denise Mason, Craig Thurmond  
**Absent:** 2 - Lori Hendricks, Mary Ann Colston

Jason Featherngill and Denise Mason were present via videoconference. Denise Mason left the meeting prior to the vote on Item 3C.

#### 3. General Committee Business

##### A. 20-1045 Approval of the Drainage Advisory Committee meeting minutes of July 27, 2020

There were no corrections or deletions to the July 27, 2020 Drainage Advisory Committee Meeting Minutes.

MOTION: A motion was made by Johnnie Parks, seconded by Donna Wallace.

##### **Move to approve the July 27, 2020 Drainage Advisory Committee Meeting Minutes**

The motion carried by the following vote:

**Aye:** 4 - Jason Featherngill, Donna Wallace, Johnnie Parks, Denise Mason  
**Abstain:** 1 - Craig Thurmond

##### B. 20-1053 Status update regarding the 2018 General Obligation Bond Program, Proposition No. 6, project record and available project funds

Stormwater Manager Patrick Wilson reviewed the projects which had been approved for funding including: 1) Stone Wood Crossing I and II, Problem: overland flow creating erosion, Solution: collecting overland water flow in a storm sewer system, Progress: survey completed, design in progress, Budget: on target; 2) Stone Wood Crossing II, Problem: underground spring water, Solution: French drain tied into public sewer system, Progress: under construction; 3) Pembroke Park, Problem: creek erosion along retention pond, Solution: tree removal and armament, Progress: tree removal completed, armament being coordinated, Budget: on target; 4) Willow Springs II, Problem: storm sewer eroding property, Solution: extend sewer system and armament, Progress: bids opened last Friday, Budget: on target, possibly below budget; 5) Central Park Estates, Problem: undersized storm sewer, Solution: construction designs, Progress: designs 90% complete; 6) Indian Springs, Problem:

eroding creek banks; Solution: project tied into Proposition 5 funds, construction designs, Progress: designs 90% complete; 7) Forest Ridge, Problem: eroding creek banks along Covington Creek, Solution: construction plans, Progress: in negotiations with engineering firm to create construction design plans; 8) Eagle Creek HOA – place holder project to be discussed this evening.

Mr. Wilson displayed and discussed a chart which illustrated Bond Sales, Proposed Projects, Approved Projects, and remaining fund balances for each of the four Basins: Adams Creek, Broken Arrow Creek, Haikey Creek, and Elm and/or Aspen Creek. He noted Adams Creek had \$100,000 dollars left in available fund balance, Broken Arrow Creek had a full fund balance available of \$250,000 dollars due to no projects being assigned to this basin as of yet, and Haikey Creek had \$120,000 dollars left in available fund balance.

**C. 20-1054 Consideration, discussion and possible action regarding the design and construction of a storm sewer system in Eagle Creek V subdivision and direction of staff to obtain necessary easements for such drainage improvements and authorization of the expenditure of 2018 GO Bond, Proposition 6 funds for the improvements**

Mr. Patrick Wilson reported East 49th Street South ran through Eagle Creek V and into Eagle Creek IV subdivisions. He indicated it was constructed as a part of the Phase IV work; Phase V was built later in 2006 and filled in the undeveloped parcels of land along the street. He noted from early on, the drainage system experienced several localized problems. He stated in 2011, the City passed a General Obligation bond program and included funds to address some of the drainage in and around the Eagle Creek vicinity; unfortunately, there were not enough funds to address this issue coupled with the fact that private property would have been used to mitigate the matter. He reported in 2014, the City hired a professional engineer to investigate and examine the drainage issue and provide a recommended solution. He stated the investigation revealed the storm sewers along E. 49th Street South were undersized for the amount of runoff actually realized. He stated in 2016, the City selected a viable alternative and designed a solution. He indicated the design was essentially complete but would need some documentation in order to finalize it. He explained an easement must be acquired prior to the start of construction, but an approach to mitigate the localized flooding in this area was in place and ready for funding. He stated the portions of the work that were within public right of way would be funded by Proposition 5 monies, but the majority of the work was on private property and would require another source of funding. He displayed and discussed a map and the plat of the problem area in Eagle Creek draining into the pond. He discussed the possible solution: intercepting the water before it reached the pond and diverting the water into a new drainage easement (on lot 15).

Committee Member Thurmond asked if Staff was in communication with the owners of lot 15 in this regard. Mr. Wilson responded in the affirmative; the property owners approved of the new drainage easement; the City would be required to replace the fence on lot 15. He noted Eagle Creek HOA representatives were present.

Committee Member Parks asked if all the affected property was within the City of Broken Arrow. Mr. Wilson responded in the affirmative; however, the land was originally a part of Wagoner County, was developed to Wagoner County standards, and was annexed into Broken Arrow post development.

Mr. Wilson displayed and discussed photographs of flooding in the area. He displayed the proposed construction design plans which would be reviewed and adjusted as necessary by the Broken Arrow Engineering and Construction Department. He noted there were some attachments which were inadvertently included with this presentation; however, were not a part of the presentation. He reported the cost estimate as of April 2020 was approximately \$100,000 dollars. He indicated there was a 10% contingency for timing and inflation; the total (including contingency) was \$101,156 dollars of which approximately \$25,000 dollars

to \$27,000 dollars would be supplied by Proposition 5 funds.

Committee Member Parks indicated he understood Proposition 6 funds were for properties not owned by the City of Broken Arrow. Mr. Wilson concurred. He explained this was why the work being done on the street and easements would utilize Proposition 5 monies, as the street and existing easements were City owned property.

Assistant City Manager Kenny Schwab commented this design had been going on for quite some time, and Staff believed there was a lot more stormwater flow going into the detention pond than the engineer of record indicated; however, the design needed to be finalized as presented. He noted the water detention level in the detention pond still needed to be evaluated to ensure the water was not being pushed back out into the street.

Committee Member Thurmond asked if this had been monitored during last year's spring rains. Mr. Schwab responded in the affirmative; he explained the study regarding the water level in the pond was needed to be certain the proposed solution would solve all flooding problems in the area. Discussion ensued regarding the pond flooding in Glen Eagle.

Committee Member Thurmond asked if Mr. Schwab believed the proposed design plan was a good solution for this problem. Mr. Schwab responded in the affirmative.

Committee Member Parks asked if Staff believed it would be able to obtain the necessary easement to work on private property. Mr. Wilson responded in the affirmative; the property owner was willing to work with the City.

Mr. Schwab explained City Staff considered going between homes and increasing the pipe size; however, these homes were too close together to make this possible.

MOTION: A motion was made by Johnnie Parks, seconded by Craig Thurmond.

**Move to approve the plan submitted for Eagle Creek V subdivision and direct Staff to obtain necessary easements for such drainage improvements and authorize the expenditure of 2018 GO Bond, Proposition 6 funds for the improvements**

The motion carried by the following vote:

**Aye:**      4 -      Jason Featherngill, Donna Wallace, Johnnie Parks, Craig Thurmond

Committee Member Parks thanked Mr. Wilson and Staff for the update regarding drainage projects and available funding. Mr. Schwab noted updates would be presented quarterly.

#### 4. Adjournment

The meeting adjourned at approximately 6:28 p.m.

MOTION: A motion was made by Johnnie Parks, seconded by Donna Wallace.

**Move to adjourn**

The motion carried by the following vote:

**Aye:**      4 -      Jason Featherngill, Donna Wallace, Johnnie Parks, Craig Thurmond

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Craig Thurmond, Member

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Lisa Blackford, Deputy City Clerk