

**Public Works and Capital Projects**  
**May 15, 2023**

**CAPITAL STREET PROJECTS – CITY FUNDED**

**Wildhorse Parkway Reconstruction (2023 Slab Project A)** –This project will reconstruct Wildhorse Parkway from Wildhorse Creek Road to the Chesterfield/Wildwood City limits, excluding the bridge and approach slabs which were addressed in 2021. The project includes reconstruction of the existing pavement, replacement of existing curb ramps, and widening the roadway by one-foot on both sides to accommodate two-way traffic during reconstruction. The widening will also increase safety for future maintenance activities that require partial lane closures. Bids were opened March 7, 2023, with Next Level Construction submitting the low bid of \$2,940,310 (approximately \$300,000 over budget). After considering options, including a project delay and scope reduction, the City Staff recommended and City Council ultimately approved a contract with Next Level Construction in an amount not to exceed \$3,100,000. This necessitated a Budget Amendment of \$450,000 from the Capital Projects Fund – Fund Reserves. A subdivision meeting will be scheduled in late May or early June prior to the start of construction. The construction of Project A is scheduled to commence once Project B is substantially complete.



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**2023 Slab Replacement Project B** – The bid opening for Selective Slab Replacement Project B was held on January 25, 2023, with Next Level Construction submitting the low bid of \$881,179. City Council approved a contract with Next Level Construction on February 6 in an amount not to exceed the budgeted amount of \$1,000,000. This project includes approximately 9,600 square yards of concrete pavement replacement. Streets that will be improved as part of this project include Royalbrook Drive, Whitestone Farm Drive, and Woodland Field Court. This project is currently 30% complete.



**Crack Sealing Project** – The 2023 crack sealing project is scheduled to be bid in the fall. Crack sealing is generally most effective in late fall/early winter when streets are contracting and the cracks are open.

**Asphalt Overlay Project** – This project will include a new asphalt driving surface on Justus Post Road, North Goddard Avenue, and Old Baxter Road. Prior to the placement of the new asphalt, the selected contractor will mill two inches of the existing asphalt pavement, construct base repairs (if needed - as directed by City Staff), and replace deteriorated curb and gutter sections. This project is scheduled to be publicly bid in August, with construction expected to commence in September. The budget for this project is \$240,000.

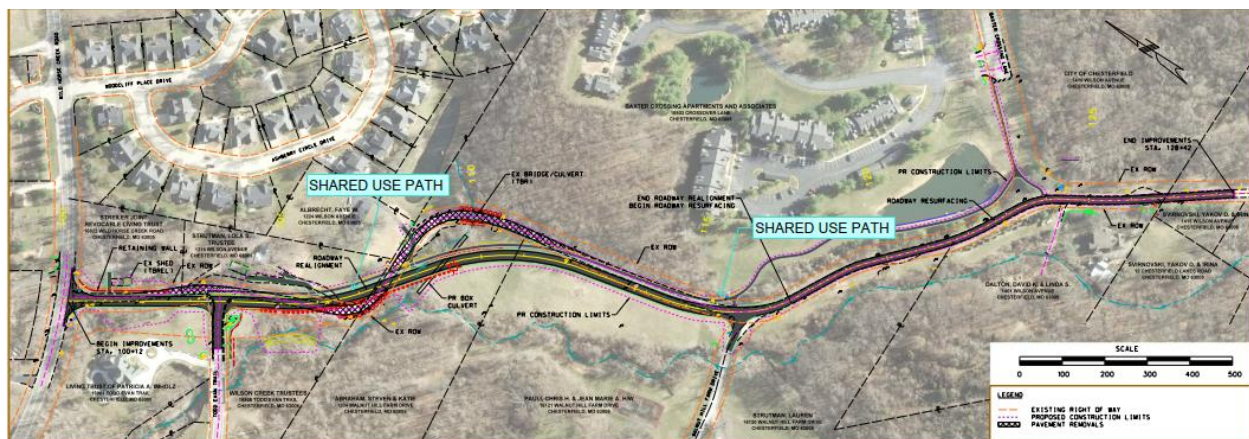


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The City's 2023 Asphalt Overlay Project originally included an asphalt overlay on Old Olive Street Road just south of the Phillips 66 in western Chesterfield Valley. However, during utility coordination it was determined that Missouri American Water planned to replace a water main directly under one of the driving lanes of Old Olive Street Road. Accordingly, Missouri American Water will make the required pavement restoration including a full-width asphalt surface course. The City will reimburse Missouri American Water for all costs outside the scope of their required pavement restoration. This project was completed on April 13, 2023.

### CAPITAL STREET PROJECTS – GRANT FUNDED

**Wilson Avenue Improvements** – On November 1, 2021, City Council approved a contract with Oates Associates in an amount not to exceed \$310,000 for design services necessary in order to construct improvements to the northern portion of Wilson Avenue. The design contract with Oates was executed on November 17, 2021. Based on the current design, the anticipated project cost is \$2,143,100, which includes \$1,633,100 for construction, \$340,000 for right-of-way/easement acquisition, and \$170,000 for construction inspection services. The preliminary design was presented to the public on January 24, 2022. On February 7, 2022, City Council authorized City Staff to submit a Surface Transportation Program (STP) grant application to East-West Gateway in order to partially fund this project. The grant request was submitted on February 10, and included a request for federal funding of \$1,143,170 (70% of the construction cost).



The East-West Gateway Board of Directors officially approved awarding a grant for this project on August 31, 2022. A Program Agreement with the Missouri Highway Commission was approved by City Council on March 6. According to the grant schedule, right of way acquisition will begin in 2024 and construction will commence in 2026 (unless an earlier start date is authorized by East-West Gateway).

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A public open house was held on April 25, 2023 at Chesterfield City Hall. Staff reviewed the preliminary plans with residents and residents were able to provide their comments on the plans. Public Works Staff is currently working with Oates and Associates to finalize completion of the preliminary plan submittal to MoDOT. Once MoDOT provides approval of the preliminary plans, the City can commence right of way and easement acquisition.

### GRANT APPLICATIONS

**Highcroft Drive/Old Baxter Road Improvements** - As directed by the Planning and Public Works Committee in late 2022, the Engineering Staff solicited resident feedback for improvements to Highcroft Drive from Schoettler Valley Drive to Baxter Road, including the asphalt portion of Old Baxter Road near Eberwein Park. That feedback, which included a survey and trustee meetings, was evaluated and used to prepare a grant application for improvements to Highcroft Drive.

Staff submitted a Surface Transportation Block Grant Program (STBG) grant application to East-West Gateway for this project on February 8, 2023. The grant application requested funding for 80% of the total project cost, estimated at \$2,054,000. Preliminary information provided by East-West Gateway indicates that the application has not been recommended for funding. City Engineering Staff will meet with East West Gateway and plan to submit an improved grant application in 2024.





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**Schoettler Road Sidewalk** – On March 31, 2023, the East-West Gateway Board of Directors formally approved the City Transportation Alternatives Program (TAP) grant application for construction of a sidewalk extension on the east side of Schoettler Road from Windsor Valley Court to Greenleaf Valley Drive. This sidewalk extension will fill the last remaining sidewalk gap on Schoettler Road and provide a pedestrian route on at least one side of Schoettler Road from Clayton Road to Chesterfield Parkway. This extension will also provide a pedestrian route for residents to access Logan Park. Staff is currently awaiting the Program Agreement from MoDOT which will need to be formally executed by the City via Ordinance. Assuming the Program Agreement is approved, engineering design will commence in 2024, followed by right-of-way acquisition in 2025 and construction in 2026.



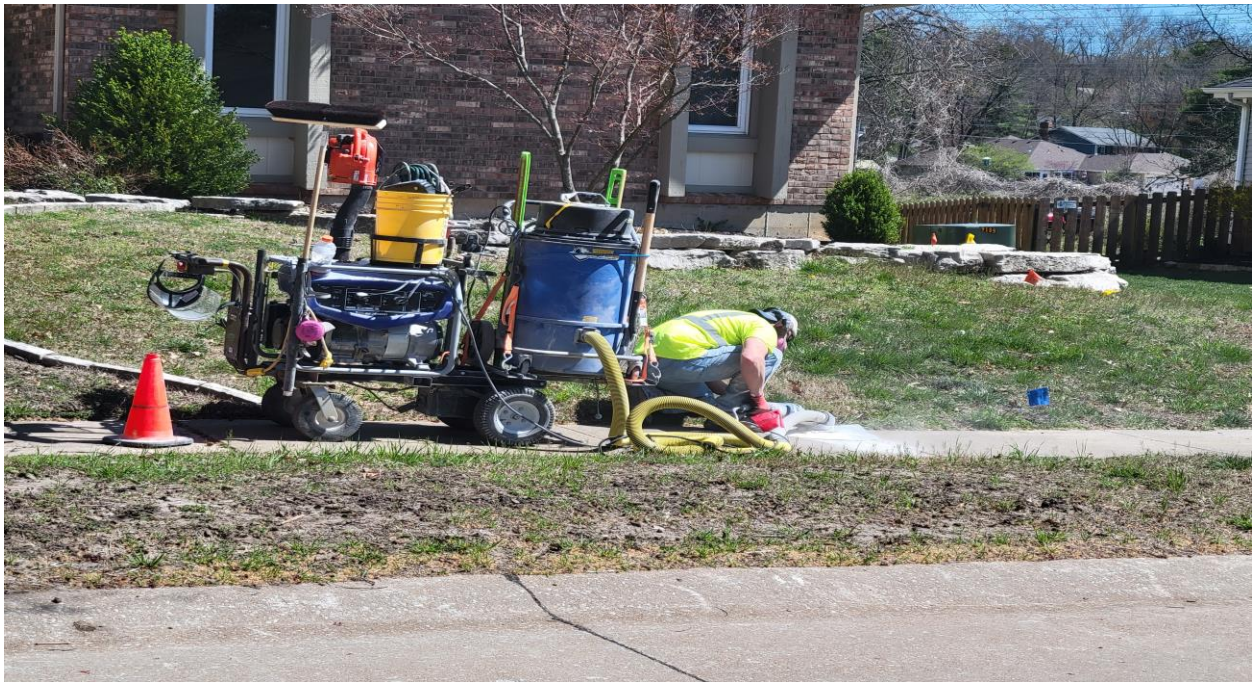
## **SIDEWALKS AND TRAILS**

**2023 Sidewalk Leveling Project** - This project involved the leveling of sidewalk sections to remove deficiencies through the use of a mud-jacking process. Sidewalk leveling was completed in the following subdivisions: Chesterfield Meadows, Wilson Manor, Bent Tree and Wilson Farm. The Sidewalk Leveling Project allows the City to repair additional sidewalk by reducing the number of slabs that require full removal and replacement within the Sidewalk A Project. On February 21, 2023, City Council approved a contract with Lift Rite in an amount not to exceed \$100,000. Construction began on April 17, 2023 and has been completed at a total cost of \$100,000.

Additionally, City Council approved a second project with Precision Concrete Cutting whereby Precision removed sidewalk deficiencies through the use of a proprietary saw-cutting method. This work occurred in the Sycamore Manor subdivision. The cost of this project was approved in an amount not to exceed \$30,000. Construction on the Precision project began on April 3, and has been completed at a total cost of \$30,000. See page 6 for photos of both projects.



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**2023 Sidewalk Replacement A** – This project will remove and replace deficient sidewalks in a number of subdivisions, including Chesterfield Meadows, Wilson Manor, Bent Tree and Wilson Farm. The bid opening for this project was held on March 7, 2023, with E. Meier Contracting submitting the low bid of \$186,388. On March 20, 2023, City Council approved a contract with E. Meier Contracting in the budgeted amount of \$200,000. Construction is expected to commence in August.

**2023 Sidewalk Replacement B** – This project will address miscellaneous sidewalk deficiencies throughout the City, primarily identified through Work Orders and Requests for Action (RFAs). The bid opening for this project was held on February 21, 2023, with Amcon Municipal Concrete submitting the low bid of \$167,500. On March 6, 2023, City Council approved a contract with Amcon Municipal Concrete in an amount not to exceed the budgeted amount of \$200,000. Construction began April 27, 2023.

**Accessible Ramp Improvements (CDBG-2022)** – This project included the reconstruction of ten ADA compliant sidewalk ramps in the River Bend Estates Addition subdivision. A bid opening was held on February 7, 2023, with Spencer Contracting submitting the low bid of \$55,534. On February 21, 2023, City Council approved a contract with Spencer Contracting. Construction began on March 27, 2023, and has been completed at a total cost of \$55,534. The City will be reimbursed \$41,900 for this project from St. Louis County through the Community Development Block Grant program.



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**Eberwein Park** – This project involves removing the aggregate trails located throughout Eberwein Park and replacing them with a new concrete trail. The trail will be relocated in an effort to minimize the grade and prevent the erosion problems that have been affecting the Eberwein Park trails since they were originally constructed. An engineering services contract with Horner and Shifrin was approved by City Council on May 3, 2021. Design was completed in the spring of 2022, at which time the project was advertised for bid. On June 7, 2022, City Council approved a contract with the low bidder, Kozeny-Wagner, in an amount not to exceed \$840,000. A pre-construction meeting was held on July 7, 2022 and construction began on August 1, 2022.

While excavating for the new section of trail west of the pond, it was discovered that the dam had several leaks and needed to be reconstructed prior to constructing a new trail adjacent to it. Staff obtained an estimate from Kozeny-Wagner to reconstruct the dam and repair the pond, which was presented to City Council for approval at its September 6, 2022 meeting. City Council approved the proposal and authorized a supplemental agreement with Kozeny-Wagner in an amount not to exceed \$275,000. This increased the total project cost to \$1,105,000.

The trails are 100% complete and currently being used. The contractor completed final grading and seeding on April 14, but on April 15 the park experienced approximately 2.5 inches of rainfall in a short period of time. That rainfall event caused erosion in many of the newly graded swales. Correction of these swales was delayed by an operator's strike, which was resolved on May 7. The contractor returned to the site on May 8 and began regrading the affected areas. Additional straw blankets will be placed to deter erosion until vegetation is established. It is anticipated that the regrading and seeding will be completed by May 19. A wet area behind the dam has been identified and Staff is working with the contractor to determine the cause and a course of action.





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**Monarch Chesterfield Levee Trail Phase V** – This project (Baxter to I-64) is complete. Due to concerns about the safety of the section of trail which passes under I-64 in close proximity to Bonhomme Creek, the trail has been closed just south of I-64. This section will remain closed until the next phase (Phase VI - see below) is constructed.

**Monarch Chesterfield Levee Trail Phase VI** – Phase VI of the Monarch-Chesterfield Levee Trail extends from just north of I-64 to the northeast corner of Top Golf. Once constructed, this section will fill the remaining “gap” in the Levee Trail.

The Monarch–Chesterfield Levee is located on private property and the City has no right to construct a trail on the levee without acquiring the necessary easements. After multiple failed attempts to acquire the easements amicably, the City filed for condemnation of the easements in 2022. The condemnation process began with the requisite Commissioner Hearing on January 19, 2023. The City Attorney and City Engineering Staff presented project information to the Commissioners who were tasked with determining a value for the easements. On March 3, 2023 the City was notified that the Commissioners awarded \$93,000 to the property owners, including heritage value, for the easements. This is approximately \$60,000 higher than the City offered, but substantially lower than the \$12 million requested by the property owners. The award has been appealed by the property owners who have requested a jury trial before the City takes possession of the easements.



A project bid opening was originally anticipated in 2023. However, because the property owners have contested the easement award and requested a jury trial, the bid opening and subsequent construction timing are unknown and cannot be accurately estimated. Once a jury trial is held and an easement value is assessed by the court and accepted by the City, we will update this report and create a schedule for this project.

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#### **MISCELLANEOUS PROJECTS**

**Main Circle Drive** – In cooperation with the Parks Department, the Engineering Staff managed the design and construction of an extension of Main Circle Drive from its existing terminus at the Main Circle Drive round-a-bout to Veterans Place Drive. Construction bids for the project were publicly opened on August 23, 2022, after which City Council authorized a contract with the low bidder, RV Wagner, in an amount not to exceed \$598,000. This project is funded through the 2020 Certificates of Participation Bond (2020 COPs) for improvements to Central Park. Construction began on March 1, 2023 and the road was opened to the public on May 4, 2023.

**2023 Bridge Deck Sealing and Epoxy Overlay** –This project includes the sealing of the bridge decks on Timberlake Parkway, Schoettler Road, Eagle Bluff Court, Ladue Road, the Chesterfield Parkway Pedestrian Bridge, and Chesterfield Ridge Center Drive. The Chesterfield Ridge Center Drive bridge deck will also receive an epoxy overlay. Bids for this project were publicly opened on April 18 with RV Wagner submitting the only bid. City Council authorized an agreement with RV Wagner at the May 1, 2023 Council meeting in an amount not to exceed \$235,000 – well below the budgeted amount of \$270,000. The project will be completed this summer.

**Sewer Lateral Program** – In the month of April, the City received nine applications for sewer lateral repairs, of which eight were approved. As of March 1, 2023, the City has received 34 applications for repair, of which 29 have been approved.





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**Emerald Ash Borer (EAB) Preparedness Plan and Action Strategy** – During the month of April, nine Ash trees were removed by Public Works Street Maintenance personnel. There are only six more public Ash Trees scheduled for removal – five assigned to a contractor and one ceremonial tree near Eberwein Park. Once those trees are removed the City will have successfully completed the removal of 6,675 public Ash Trees - the overwhelming majority of which were removed by in-house Street Maintenance personnel. Please note that there are 34 public Ash Trees which are being treated by adjacent residents. These remaining Ash Trees will be regularly monitored by the City Arborist and scheduled for removal once they begin to show substantial signs of decline due to damage from the Ash Borer or the stress of treatment from the injections.

Seven years after the initial EAB detection in 2015, infestation numbers for the Emerald Ash Borer have yet to reach the top of the estimated population curve. Missouri state forestry entomologists continue to forecast that the EAB infestation around the St Louis area will peak in 2025 and that 99% of all Ash trees will die due to the damage caused by the borer. By taking pro-active action, the City was able to avoid large-scale damage associated with dead / dying / hazardous Ash trees.

**Street Tree Inspections and Removals** – During the month of April, the City received 85 requests for street tree inspections. These inspections resulted in the approval for removal of 45 street trees. Based upon previous inspections, the City managed the contractual removal of 30 street trees as well as the grinding of 90 stumps during the month of April.



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**Residential Street Tree Planting Program** – During the month of April, Farinella Nursery began installing those trees requested as part of the Spring planting. To date 90 of the 180 trees requested have been installed.

**2022 Parking Lot and Trails Seal Coat** - This project includes sealing and restriping several City parking lots and trails. A bid opening was held on July 19, 2022 with Parking Lot Maintenance LLC submitting the low bid, which was subsequently approved by City Council. Crack sealing work – which was intentionally postponed until the Spring of 2023 - began on March 6 and was completed on March 24. This was immediately followed by the seal coating of the Levee Trail, Meditation Park and multiple CVAC parking lots, which has been completed. The only remaining work is the re-striping of the Levee Trail and parking lots, which should be completed by May 19.

**Flood Insurance Rate Map Updates** – The State Emergency Management Agency (SEMA) is in the process of updating the Flood Insurance Rate Maps (FIRMs) and Flood Insurance Study (FIS) for St. Louis County. SEMA and its consultant (Wood Engineering) provided an introductory presentation on the new maps to municipal representatives in August of 2018. Based upon this information, the City sent postcard notifications to all property owners within 200 feet of a proposed floodplain/floodway change in September 2018. This allowed property owners to view the proposed changes and provide additional information and comment on the changes. SEMA held additional meetings in January of 2019, at which time they announced that Preliminary FIRMs were expected to be completed in the summer of 2020. The issuance date of the preliminary FIRMs has been delayed numerous times. The most recent update from SEMA, received on February 9, 2023, indicated preliminary maps were projected to be issued later this spring/summer. The effective date of the new maps is yet to be determined. Details on the new maps and the information from SEMA are located on the City's website. We will continue to update the website, and this report, as we obtain additional information.