

Public Works and Capital Projects
November 15, 2022

CAPITAL STREET PROJECTS – CITY FUNDED

2022 Selective Slab Replacement A – The bid opening for Selective Slab Replacement A was held on February 7, 2022, with Lamke Trenching and Excavating submitting the low bid. City Council approved a contract with Lamke on February 22, 2022 in an amount not to exceed \$1,500,000. Construction of the project began on April 7 and was substantially completed on July 1. There were 16,711 square yards of concrete pavement replaced as part of this project. The streets completed include: Blackwood Court, Bridgeway Drive, Chaistain Court, Chesterfield Manor Drive, Cheval Square, Crystal Springs Drive, Dejournet Drive, Lansbrook Court, Lansbrook Drive, Lehigh Meadows Drive, and Meierling Court. This project was officially completed on October 3 at a total cost of \$1,376,541.



2022 Selective Slab Replacement B – The bid opening for Selective Slab Replacement B was held on February 7, 2022, with Lamke Trenching and Excavating submitting the low bid. City Council approved a contract with Lamke on February 22, 2022 in an amount not to exceed \$900,000. There was originally 18,000 square yards of concrete pavement replacement as part of this project; however, due to high bid prices, approximately 10,500 square yards of pavement replacement were removed from the project. Streets that will be deferred to a future year are: Conway Springs Drive, Forest Meadows Drive, Whitestone Farm Drive, and Woodland Field Court.

Project B now contains 7,634 square yards of pavement replacement on the following streets: Englewood Terrace, Sycamore Drive, Terrimill Terrace, and White Elm Court. Project B also includes the replacement of grated troughs on

Public Works and Capital Projects November 15, 2022

Benton Taylor Drive, Hunters Hill Drive, and Treherne Court. Construction of Project B began on July 5, 2022 and all concrete street replacement has been completed. Trench grate work and deficiency list items are all that remain to complete this project.



Crack Sealing Project – Bids were opened for the 2022 Crack Sealing project on October 17, 2022, with STL Sealing and Striping, LLC submitting the low bid of \$72,912. City Council approved a contract with STL Sealing and Striping on November 7, 2022 in an amount not to exceed \$100,000 (budget). This project will include the sealing of longitudinal cracks in both lanes of the concrete portion of Wilson Avenue. Crack sealing is generally most effective in late fall/early winter when concrete is contracting and the cracks are at their widest.

Schoettler Road Improvements – This project included a two-inch mill of the existing asphalt pavement, pavement base repairs, replacement of failing curb and gutter sections, and a two-inch asphalt overlay on Schoettler Road between Georgetown Road and South Outer 40 Road. Removal and replacement of ADA curb ramps was originally planned as part of this project, but was later removed during final design. These were removed because the side street crossings are generally outside of the asphalt pavement limits, and it will be more effective (cost and logistically) to address these as part of concrete pavement replacement projects of the side streets in future years.

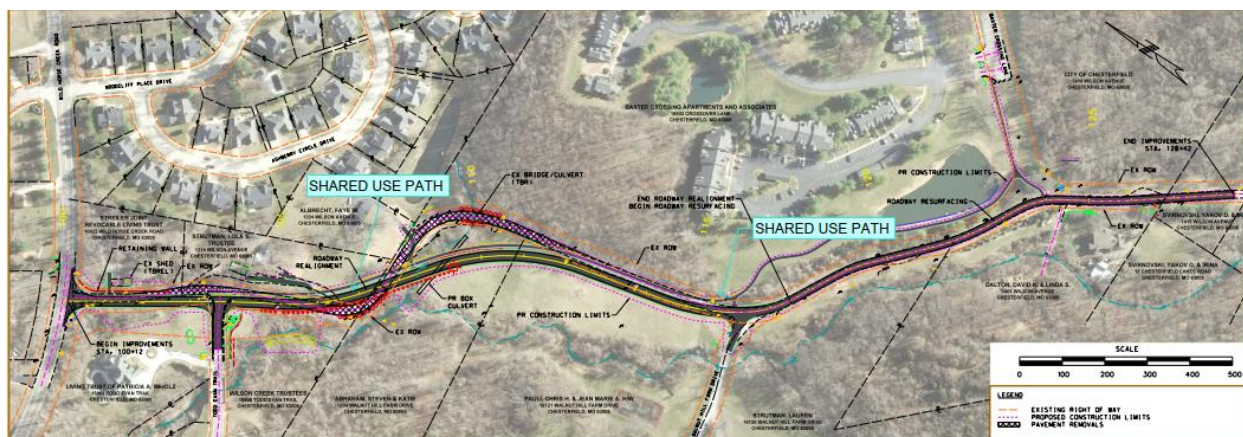
The Public Works Department opened sealed bids for this project on April 19, with NB West Contracting submitting the low bid of \$1,098,728. On May 16,

Public Works and Capital Projects November 15, 2022

City Council approved a contract with NB West in the budgeted amount of \$1,200,000. Construction of this project began on June 6, paving was completed by July 21, and pavement striping was completed on August 10. The final construction cost was \$784,212 which is \$314,516 under the bid amount and \$415,788 under budget. The cost savings is primarily due to there being far fewer base repairs than anticipated.

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, and substantial work has been completed on the preliminary plans, specifications, and cost estimate (PS&E). 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 engineering/inspection. The preliminary design was presented to the public on January 24, 2022. On February 7, 2022, the City Council authorized City Staff to submit a Surface Transportation Program (STP) grant application to East-West Gateway in order to 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 letter requesting that the City approve an ordinance authorizing the City to enter a Program Agreement with the Missouri Highway Commission should be received soon. 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).

City Staff is continuing to coordinate with the property owner at Wild Horse Creek Road and Wilson Avenue to accommodate impacts related to the

Public Works and Capital Projects November 15, 2022

proposed retaining walls. Oates & Associates has submitted preliminary plans, including a hydraulics analysis report for a new culvert at the S-curve. Those plans and report are currently being reviewed by City Engineering Staff.

SIDEWALKS AND TRAILS

2022 Sidewalk Replacement Projects – Due to the Emerald Ash Borer (EAB) crisis, City Maintenance Staff has been re-allocated to focus on tree removal. Accordingly, City Council has approved the EAB Action Plan whereby annual sidewalk funding will be approximately \$500,000 through 2022.

2022 Sidewalk Leveling Project - This year the City Engineering Staff managed a project whereby a contractor leveled sidewalk sections to remove deficiencies through the use of a mud-jacking process. The location of this project was within the Courts, Sycamore Place, Forest Meadows, and a part of the Wilson Farm subdivisions. This project allowed the City to repair additional sidewalk and reduce the number of slabs that require full removal and replacement within the Sidewalk A Project. The bid opening for this project was held on April 5, 2022. On April 19, City Council approved a contract with the low bidder, Lift Rite, in an amount not to exceed \$55,000. Construction began on July 7 and has been completed at a total cost of \$54,990.



Public Works and Capital Projects

November 15, 2022

2022 Sidewalk Replacement A – This project corrects sidewalk deficiencies in a number of subdivisions, including the Courts, Sycamore Place, Forest Meadows, and a part of the Wilson Farm subdivisions. A bid opening was held on June 7, 2022, with E-Meier Contracting submitting the low bid of \$231,518. On June 20, City Council approved a contract with E-Meier Contracting in an amount not to exceed \$245,000. Construction began on August 15, 2022 and was substantially completed on October 17, 2022. E-Meier is currently working on punch list items and final paperwork.



2022 Sidewalk Replacement B – This project addressed miscellaneous sidewalk deficiencies throughout the City of Chesterfield, primarily identified through Work Orders and Requests for Action (RFAs). The bid opening for this project was held on February 7, 2022. On February 22, City Council approved a contract with Lamke Trenching and Excavating in an amount not to exceed \$200,000. Construction began on March 14, 2022 and has been completed at a total cost of \$199,990.

Riparian Trail – The project limits for Phase II of the Riparian Trail begin at August Hill Drive, continue north through Central Park, cross Wild Horse Creek Road at the Burkhardt Place intersection, and terminate at Old Chesterfield Road. This project is partially funded through a \$1 million grant acquired through the Transportation Alternatives Program (TAP). All remaining project costs outside the grant will be funded through the Chesterfield Valley

Public Works and Capital Projects

November 15, 2022

Transportation Development District (TDD), resulting in no net cost to the City of Chesterfield.



Construction bids for the Riparian Trail project were opened on July 27, 2021, with Ideal Landscape Management submitting the low bid. On August 16, 2021, City Council approved a construction contract with Ideal Landscape Management in an amount not to exceed \$880,000. Ideal began work on October 11, 2021 and achieved substantial completion of the project on September 1, 2022. Staff is working toward final project closeout with Ideal and MoDOT. The pedestrian signal at the Burkhardt Place/Wild Horse Creek Road intersection was activated on November 14. The entire trail between August Hill Drive and Old Chesterfield Road is now open.

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.

It is important to note that 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. On February 1, 2021, City Council approved ordinances authorizing negotiation and the use of condemnation, if necessary, to acquire the easements for this project. In the spring of 2021, City Engineering Staff contacted all affected property owners

Public Works and Capital Projects November 15, 2022

and made written monetary offers for the required easements. City Engineering Staff and the City Attorney also met with the owners' attorney in June of 2021. Subsequently, the City Attorney made multiple attempts to negotiate further with the owners' attorney in an attempt to acquire the easements amicably, but received no response. Therefore, the City Attorney initiated condemnation proceedings. The first condemnation hearing being held on July 21, 2022, at which time the Court entered an order of condemnation and an order appointing the three condemnation commissioners. The first Commissioner Hearing is scheduled for late November, at which time Commissioners will view the property and consider arguments on the property value.

Once the easement acquisition is complete, the project will be advertised for bid. A project start date will be scheduled after a contractor is chosen and a construction contract is approved by City Council.



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 some areas in an effort to minimize the grade and stabilize the trail. This project will correct the erosion issues 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 complete 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.

When excavating for the new section of trail west of the pond, it was discovered that the dam had several leaks and will need to be reconstructed prior to

Public Works and Capital Projects November 15, 2022

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.

Large portions of the concrete trail have been constructed in the north and south portions of the park. The entrance to the dog park has been temporarily relocated to the north end of the park to accommodate construction of the trail just south of the dog park. The pond excavation has been completed and reconstruction of the dam is currently in progress. The contractor is also working to reconstruct the water quality basins at the northwest corner of the park. The project should be completed in December.



Accessible Ramp Improvements (CDBG-2021) – This project included the reconstruction of ten ADA compliant sidewalk ramps in the Highcroft Estates and Westfield Farms subdivisions. The bid opening was held on April 5, 2022. On April 19, City Council approved a contract with Spencer Contracting in an amount not to exceed \$55,000. Construction of this project began on June 13, and has been completed at a total cost of \$54,950, of which \$43,763 was reimbursed by St. Louis County. Please note that this is considered a 2021 project, but the CDBG funding was not released by St. Louis County until 2022.



Public Works and Capital Projects

November 15, 2022

MISCELLANEOUS PROJECTS

Main Circle Drive – In cooperation with the Parks Department, Engineering Staff has managed the design and secured a contractor for an extension of Main Circle Drive from its existing terminus at the Main Circle Drive round-about to Veterans Place Drive. An engineering design services contract with Stock & Associates was approved by City Council on January 19, 2022 in an amount not to exceed \$40,000, and final plans were completed on July 29, 2022. Staff completed the construction bid documents and advertised the project for bids on August 9, 2022. Bids for the project were publicly opened on August 23, 2022, after which City Council authorized a contract with RV Wagner in an amount not to exceed \$598,000. Contract documents have been fully executed; however, as detailed in the City Council recommendation, due to material ordering lead times for the precast concrete storm sewer structures, the project start date will be deferred from this fall to the spring of 2023. This project is funded through the 2020 Certificates of Participation Bond (2020 COP) for improvements to Central Park.

Sewer Lateral Program – In the month of October, the City of Chesterfield received ten applications for sewer lateral repairs, all of which were approved. As of January 1, 2022, the City has received 109 applications for repair, of which 98 have been approved. It appears that the 2022 costs associated with the Sewer Lateral Program will exceed the 2022 Budget (\$440,000). Accordingly, City Council will consider a Budget Amendment in late November.



Public Works and Capital Projects November 15, 2022

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 comments 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 September 29, 2022, indicates preliminary maps are anticipated to be issued in January 2023. 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.

2022 Parking Lot Asphalt Overlay (City Hall, Aquatic Center, and Parks Administration) – This project includes an asphalt overlay of the parking lots located at City Hall, the Aquatic Center, and the Parks Administration Building. Also included with this project is the reconstruction of the ramps located adjacent to the ADA parking spaces at these facilities. Funding for these overlays was approved as part of the 2022 budget, and bids were opened for the project on July 19, 2022. On August 1, 2022, City Council approved a contract with Leritz Contracting in an amount not to exceed \$400,000. Construction began on September 12, 2022 and the project is substantially complete. Staff is currently working with the contractor to address punch list items, and it is anticipated that all items will be completed by December 1.



2022 Parking Lot and Trails Seal Coat - This project includes sealing and restriping the remaining City parking lots (not included in the asphalt overlay project) and trails. This project was bid on July 19, with Parking Lot Maintenance LLC submitting the low bid. Contract documents have been executed and a preconstruction meeting was held on August 31, 2022. In consultation with the contractor, construction for this project which was

Public Works and Capital Projects

November 15, 2022

originally planned for this fall, will be delayed until the spring of 2023. This will ensure optimal temperature conditions for placement and curing of the seal coat material. Once the project begins next year, there will be temporary closures of the Monarch-Chesterfield Levee Trail and portions of the CVAC access drives / parking lots.

Emerald Ash Borer Preparedness Plan and Action Strategy – During the month of October, 54 Ash trees were removed by Public Works Street Maintenance personnel. There are approximately 200 Ash trees remaining to be removed, which are all scheduled for removal by the first quarter of 2023. Seven years after the initial EAB detection in 2015, infestation numbers for the 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. The remaining public Ash trees continue to exhibit signs of decline in all size ranges. Until all of the public Ash trees are removed, Public Works and contracted tree crews will continue to primarily focus on Ash trees and trees with immediate hazards when considering removal. Nuisance trees will be deferred until the public Ash trees have been eliminated.

Street Tree Inspections and Removals – During the month of October, the City of Chesterfield received 50 requests for street tree inspections. These inspections resulted in the approval for removal of 15 street trees. Based upon previous inspections, the City of Chesterfield managed the contractual removal of 30 street trees (28 non-Ash and 2 large White Ash) as well as the grinding of 130 stumps in the month of October.



Public Works and Capital Projects
November 15, 2022

Residential Street Tree Planting Program – During the month of October, Farinella began installing street trees requested as part of the fall planting. To date 75 of the 464 requested trees have been planted.

Old Chesterfield Road – In the summer of 2020, the culvert under Old Chesterfield Road was replaced and the asphalt portion of the roadway was overlayed. Recently, sink holes have developed along a portion of the roadway adjacent to the edge of pavement. A dye test was conducted at which time it was determined that the sink holes are being caused by deficient joints in the box culvert. In order to reduce the movement of water under the roadway, a flowable expanding epoxy material was injected into the sink holes. The Street Maintenance Division then re-sealed the joints in the box culvert, placed additional flowable expanding epoxy into the sinkholes, and restored the area adjacent to Old Chesterfield Road. Engineering Staff will continue to monitor this area regularly to verify the repairs corrected the issue.