

**Public Works and Capital Projects**  
**October 15, 2018**

**CAPITAL STREET PROJECTS – CITY FUNDED**

**2018 Selective Slab Replacement A** – At its March 5, 2018 meeting, City Council approved a contract with J.M. Marschuetz in an amount not to exceed \$938,674 for the 2018 Selective Slab Replacement A Project. All pavement construction has been completed. However, miscellaneous work remains, including joint sealing, placement of backfill, seeding, and punch list items. There are 16,740 square yards of concrete pavement replacement as part of this project. Streets include: Ladue Farm Road, River Bend Drive, Shady Valley Drive, Westernmill Drive, Millchester Circle, and Millbriar Circle.

**2018 Selective Slab Replacement B** – At its March 5, 2018 meeting, City Council approved a contract with J.M. Marschuetz in an amount not to exceed \$801,057 for the 2018 Selective Slab Replacement B Project. Pavement construction has been completed on Schoettler Valley Drive, and work is currently underway in the Countryside at Chesterfield subdivision and Coventry Farm subdivision. This project is approximately 65% complete. There are 14,995 square yards of concrete pavement replacement as part of this project. Streets include: Schoettler Valley Drive, Countryside Manor Parkway, Coventry Farm Drive, Coventry Farm Court, and Coventry Glen Court.

**Crack Sealing Project** – The 2017 crack sealing project was completed in April, within budget. There is no crack sealing project in 2018. Crack sealing will resume in 2019, subject to budgetary approval by City Council.

**Wilson Avenue Culvert Replacement Project** – On November 6, 2017, City Council approved a contract with Pavement Solutions in an amount not to exceed \$485,000 for the replacement of the one-lane Wilson Avenue culvert with a new two-lane culvert. This project was successfully completed, within budget, on September 5. City staff was able to utilize the project contingency to overlay the portion of Wilson Avenue from the bridge to the top of the hill. Final payment to the contractor is being held until all closeout paperwork is received.

**Schoettler Road Improvements (Clayton to Georgetown)** – On March 19, 2018, the City of Chesterfield City Council approved a contract with HR Green to design improvements to Schoettler Road from Clayton Road to Georgetown Road. This project will include the design of a center turn lane from Georgetown Road to Schoettler Grove Court, as well as a designated right turn lane near Clayton Road. The Geotechnical Investigation and Right of Way / Topographic Survey have been completed. Preliminary Plan design took longer than expected due to inconsistent cross slopes in the pavement throughout the project limits. The City Staff and HR Green worked together to determine how

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to proceed, as changes to the pavement section also impact drainage, sidewalk, land acquisition limits, and total project costs. Revised preliminary plans were received on October 5, and conceptually approved by City Staff on October 10. HR Green is now designing the storm water drainage, which will be submitted to MSD for review upon completion. Right of way acquisition (which will include right of way and easements from three parcels) will begin after MSD has reviewed the plans, which is anticipated to occur in December. Due to delays in design and the time expected to be required for property acquisition, construction of this project has been postponed until 2020.

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**Schoettler Road Bridge** – This project was awarded federal BRM funding for reconstruction of the existing two lane bridge on Schoettler Road over Creve Coeur Creek and construction of associated improvements, including sidewalk and pavement shoulders. The grant provides funding for up to \$1,602,480 of the estimated \$2,000,000 total project cost. Design and right-of-way acquisition for this project were completed in 2017. Construction of the new bridge was substantially completed and opened to traffic in June. A semi-final inspection was conducted with MoDOT, Gershenson Construction, Burns & McDonnell, and City personnel in August. A final inspection will be conducted later this fall after completion of plant installation and the required storm water features. The contract completion date is December 10, 2018.

**Old Chesterfield Road** – This project includes improvements to Old Chesterfield Road between Wild Horse Creek Road and Baxter Road. A Surface Transportation Program (STP) grant application was submitted to East-West Gateway in 2017 which included improvements to Old Chesterfield Road and replacement of the culvert just east of Santa Maria. That grant application was not successful. The City Staff submitted a revised STP grant application in June of 2018. The 2018 grant application included replacement of the culvert and an asphalt overlay on Old Chesterfield Road. The anticipated total project cost for construction of the replacement culvert, associated utility relocations, the asphalt overlay of the existing asphalt portion of Old Chesterfield Road, and the associated construction engineering and inspection work is \$517,163. The City requested a federal participation of 80% on this project, which would have resulted in a City share of \$103,432 and a federal share of \$413,731. In early August, East West Gateway notified the City that this project was once again not recommended for funding.

Nevertheless, the project is progressing and in 2017 City Council approved a contract with Oates Associates for design services to reconstruct the deficient culvert under Old Chesterfield Road. Design of this culvert is in progress, and

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a utility coordination meeting was held in April. It appears that all utilities are within the existing right-of-way and that the required utility relocations will be completed at no cost to the City of Chesterfield. While no permanent right of way will be required as part of this project, both permanent drainage easements and temporary construction easements will be necessary in order to replace this culvert. In July, City Staff met with the three property owners from whom easements are being requested. The City has received signed easements from two of the three property owners. The third property owner, Ameren, is still reviewing the plans and easement documents. This project is budgeted for construction in 2020.

## **SIDEWALKS AND TRAILS**

**Monarch Chesterfield Levee Trail (Pump Station 4 Construction)** – The US Army Corps of Engineers project to improve Pump Station 4 is substantially complete. The Monarch – Chesterfield Levee Trail re-opened on May 15, 2018. Final grading was completed in late September adjacent to the levee trail and is awaiting final establishment of vegetation. To improve safety, a tapered white stripe has been painted on the trail, approximately two feet from the structures, to alert trail users of the structures adjacent to the levee trail.

**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** – This section of the Levee Trail extends from just north of I-64 to just east of the former ice complex. This project was originally delayed due to pump station work for Watershed 5 by the United States Army Corps of Engineers (USACE). The Watershed 5 pump station work is now complete; however, the Levee District has planned a substantive grading project in this area for 2018 / 2019. City Staff has met several times with the Levee District and a preferred Levee Trail route was identified and incorporated into the Levee District plans. In May a kickoff meeting was held with KDG, the City's design consultant for the Levee Trail. KDG has begun design of this section of Trail and is using the Levee District design plans as a base for its design. Phase VI will also include a complete redesign and reconstruction of the Phase V segment of existing trail under the I-64 overpass, referenced above. The new design will eliminate the steep grades, improve safety, and correct existing erosion problems.

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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 an easement. City staff has previously held a meeting with the majority property owner to discuss alignment and other concerns. However, easement negotiations cannot progress until the Levee District grading plans are finalized and a schematic design is completed by KDG.

**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 contractual sidewalk funding will be increased to \$500,000.

**2018 Sidewalk Replacement A** – This project addressed sidewalk deficiencies in the Chesterfield Hills and Clarkson Woods subdivisions. The bid opening was held on March 6, 2018. On March 19, 2018, City Council approved a contract with the low bidder, Amcon Construction, in an amount not to exceed the budgeted amount of \$300,000. Notice to proceed was given to the contractor on April 2, 2018 and the project was completed in June. Remaining sidewalk deficiencies within the Clarkson Woods subdivision will be addressed within the 2019 Sidewalk Replacement Project.

**2018 Sidewalk Replacement B** – This project will address miscellaneous sidewalk deficiencies throughout the City of Chesterfield, primarily identified through Work Orders and Requests for Action (RFAs). The bid opening was held on March 8, 2018. On March 19, 2018 City Council approved a contract with the low bidder, Aztec Construction Specialties, in an amount not to exceed the budgeted amount of \$200,000. Notice to proceed was provided to the contractor on April 18, 2018. Aztec Construction will continue to address sidewalk deficiencies, as directed by the City, throughout 2018.

**Accessible Ramp Improvements (CDBG-2018)** – The City of Chesterfield continues to utilize funds available through the Community Development Block Grant (CDBG) Program to construct ADA compliant sidewalks and curb ramps. The 2018 Curb Ramp Replacement Project, which is currently in the design phase, will be constructed within four small subdivisions: Twin Estates at Sycamore Ridge, Sycamore Ridge, Sycamore Place, and Kehrs Mill Bend. This project is entirely funded through the CDBG Program, administered by St. Louis County. Funding is anticipated to be available in the fall of this year.

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**Schoettler Road Sidewalk** – Earlier this year the City staff submitted a Surface Transportation Program (STP) grant application to East-West Gateway to fund the construction of a five foot concrete sidewalk on the east side of Schoettler Road from Windsor Valley Court to Greenleaf Valley Drive. This project would fill the last sidewalk gap on Schoettler Road between Clayton Road and Chesterfield Pines Lane. The grant application included construction of retaining walls through most of the project limits due to steep existing topography in the project vicinity. Unfortunately, the City was notified in early August that this project was not recommended for funding.

The estimated total project cost for construction of the sidewalk and retaining walls, including utility relocations, easement acquisition, and construction engineering and inspection, is \$784,000. Within the five year plan, this project is budgeted for engineering in 2019, right of way in 2020, and construction in 2021. City Staff will continue to search for grant opportunities to fund construction of this sidewalk.

**Riparian Trail** – As part of an agreement between St. Louis County and the City of Chesterfield, St. Louis County agreed to leave four / five lanes of traffic on Baxter Road, with no dedicated bike lane. In return, the City of Chesterfield agreed to pursue construction of Phases Two and Three of the Riparian Trail. The aforementioned phases of the Riparian Trail begin at August Hill Drive, head north through Central Park, cross Wild Horse Creek Road, and terminate at Old Chesterfield Road. City Staff submitted a grant application for this project through the Transportation Alternatives Program (TAP) on June 19, 2017. In October of 2017, City Staff was notified that the East-West Gateway Board of Directors approved this project for funding. The total project cost is approximately \$1.5 million. With an approved grant funding of nearly \$1 million (maximum allowed), the net project cost will be approximately \$500,000. However, all project costs outside the grant will be funded through the Chesterfield Valley Transportation Development District (TDD). There will be no net cost to the City of Chesterfield.

On March 19, 2018 City Council authorized the following actions:

- 1) execution of a Program Agreement with MODOT accepting the terms of the grant;
- 2) approval of a contract with George Butler Associates (GBA) for design and construction services;
- 3) transfer of \$284,200 from General Fund – Fund Reserves to fund the project. Note that all monies transferred from the General Fund – Fund Reserves will be reimbursed through either the TAP grant or the TDD.

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On April 2, 2018, City Council authorized an Amendment to the Contribution of Land Agreement with Chesterfield Village Incorporated (CVI) in order to acquire the land necessary to construct a portion of the Riparian Trail. City staff is working with CVI to ensure the terms of the Amendment are met. On September 5, 2018 City staff received final Amendment language and the corresponding Exhibits / Legal Descriptions for review. Staff is currently working with CVI to finalize the documentation.

On July 30, 2018, City staff advised CVI that the deficiencies on the Chesterfield Ridge Center bridge have been corrected to the City's satisfaction. The bridge will remain the responsibility of CVI until the Agreement is formally executed and closing on the properties occurs.

The Program Agreement and Engineering Services Contract with GBA have both been fully executed. On June 6, 2018 the City received approval of the obligation of funds from MoDOT. GBA is currently working on the engineering design of the trail.

## **MISCELLANEOUS PROJECTS**

**CVAC Improvements** – Over the 2017/2018 winter Public Works maintenance personnel constructed roughly 300 feet of 24 foot wide concrete pavement at the parking lot at the CVAC. Street maintenance personnel will continue construction of the concrete lot during the winter of 2018/2019.

**River Valley Drive Closure** – This project has been completed. In accordance with the River Valley Drive Gate Policy approved by City Council, the gate will remain closed, with the exception of the period during which St. Louis County reconstructs a nearby bridge on Creve Coeur Mill Road. That St. Louis County project began on June 18, 2018 and was originally scheduled to be completed in September. However, there have been project delays, and the forecasted project completion date has been delayed until late October. The River Valley Drive gate was opened on June 18 and will remain open for the duration of the Creve Coeur Mill Road closure. Once Creve Coeur Mill Road is re-opened (now expected to occur in late October) the River Valley Drive Gate will be closed. This project will remain on the Capital Project Update until the St. Louis County project is completed.

**Sewer Lateral Program** – In the month of September the City of Chesterfield received 11 applications for repair, 9 of which were approved. Since January 1, 2018 the City has received 113 applications for repair, of which 104 have been approved.

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**Street Tree Inspections and Removals** – During the month of September, the City of Chesterfield received 72 requests for street tree inspections. These inspections resulted in the approval for removal of 58 trees. Based upon previous inspections, the City of Chesterfield managed the contractual removal of 25 street trees (non-Ash) and the grinding of 110 stumps during the month of September.

**Emerald Ash Borer Preparedness Plan and Action Strategy** – During the month of September, 61 Ash trees were removed by Public Works maintenance personnel. There are approximately 3,900 Ash trees remaining, which are all scheduled for removal over the next five years.

**Residential Street Tree Planting Program** – The City of Chesterfield received applications for a total of 369 new street trees as part of the fall planting. The planting of those trees will begin soon, managed by the City Arborist.