

**Public Works and Capital Projects
December 14, 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. This project has been completed, under budget. 16,478 square yards of concrete pavement were replaced as part of this project. Streets included: 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. This project has been substantially completed, also under budget. Joint sealing and a few minor punch list items remain. 13,264 square yards of concrete pavement were replaced as part of this project. Streets included: 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 was no crack sealing project in 2018. Crack sealing will resume in 2019.

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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 failing one-lane culvert on Wilson Avenue with a new, wider culvert and two-lane roadway. This project was completed on September 5, 2018. As part of this project, the City also was able to construct pavement improvements on the steep hill just south of the bridge. More specifically, the limits of asphalt construction were expanded to include a new asphalt overlay south of the culvert to the top of the hill near 1508 Wilson Avenue. This not only addressed deficient sections of asphalt, but also served to improve the asphalt skid resistance (surface texture) on the hill. This project was completed within budget with a final project cost of \$481,980.58.



Schoettler Road Improvements (Clayton to Georgetown) – On March 19, 2018, the 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 and a designated right turn lane near Clayton Road. The geotechnical investigation and right of way / topographic survey have been completed. Preliminary design took longer than originally expected due to inconsistent pavement cross slopes throughout the project limits. City Staff and HR Green worked together to determine how to proceed, as changes to the pavement sections also impacted drainage, sidewalk, land acquisition limits, and total project costs. Preliminary Design has been completed, and plans were submitted to MSD on November 21, 2018. Right of way acquisition (which will include right of way and easements from three parcels) will begin

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after MSD has reviewed the plans and provided conceptual approval, which is anticipated to occur before the end of the year. Due to delays in design and the anticipated time required to obtain the necessary right of way and easements, construction of this project has been postponed until 2020.

CAPITAL STREET PROJECTS – GRANT FUNDED

Schoettler Road Bridge – This project was awarded federal BRM funding for replacement 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 in June of 2018, at which time the bridge was opened to traffic. Construction was completed ahead of the original schedule, which called for an October bridge opening, and well within budget (total project cost was \$1,804,000). A semi-final inspection was conducted with MoDOT, Gershenson Construction, Burns & McDonnell, and City personnel in August and there were no construction deficiencies or corrections required. This project will be closed out, including final payment, in the spring of 2019 once it has been verified that the bio-retention plantings survived the winter.



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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. 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 a utility coordination meeting was held in April. All utilities are within the existing right-of-way and the required utility relocations will be completed at no cost to the City. The City met with Ameren on November 1 and they will finalize their relocation plan in February 2019. Ameren intends to relocate their facilities starting in the Fall of 2019. Several utilities will cut and cap their facilities during construction and relocation will not be necessary. While no permanent right of way will be required as part of this project, both permanent drainage easements and temporary construction easements are necessary in order to replace this culvert. To date, the City had received signed easements from two of the three property owners. City staff is currently working with the third property owner, Ameren, to finalize the appropriate easements. This project is planned for construction in 2020.



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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. Construction of the pump station included installation of several new pipe structures near the edge of the trail. In order to alert users to the presence of the piping and guide users a safe distance away from the edge of the trail in this area, a white stripe was painted on the trail approximately 2 feet from the edge.



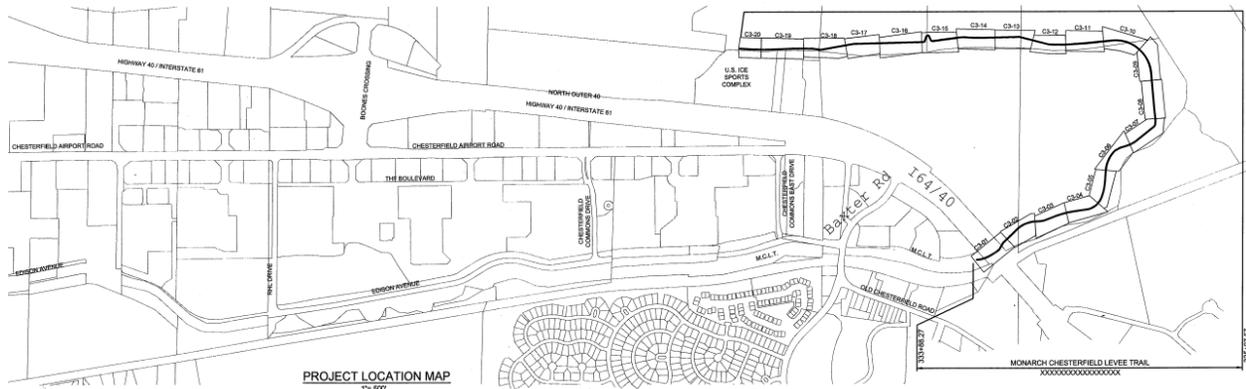
Monarch Chesterfield Levee Trail Phase V – This project (Baxter to I-64) is complete. Due to concerns about the safety of the section of trail which passes under I-64 in close proximity to Bonhomme Creek, the trail has been closed just south of I-64. This section will remain closed until the next phase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

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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.

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 provided to the contractor on April 2, 2018 and the project was completed, within budget, in June. Remaining sidewalk deficiencies located in the Clarkson Woods subdivision will be addressed during the 2019 Sidewalk Replacement Project.

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2018 Sidewalk Replacement B – This project addresses miscellaneous sidewalk deficiencies throughout the City, 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 and early 2019.

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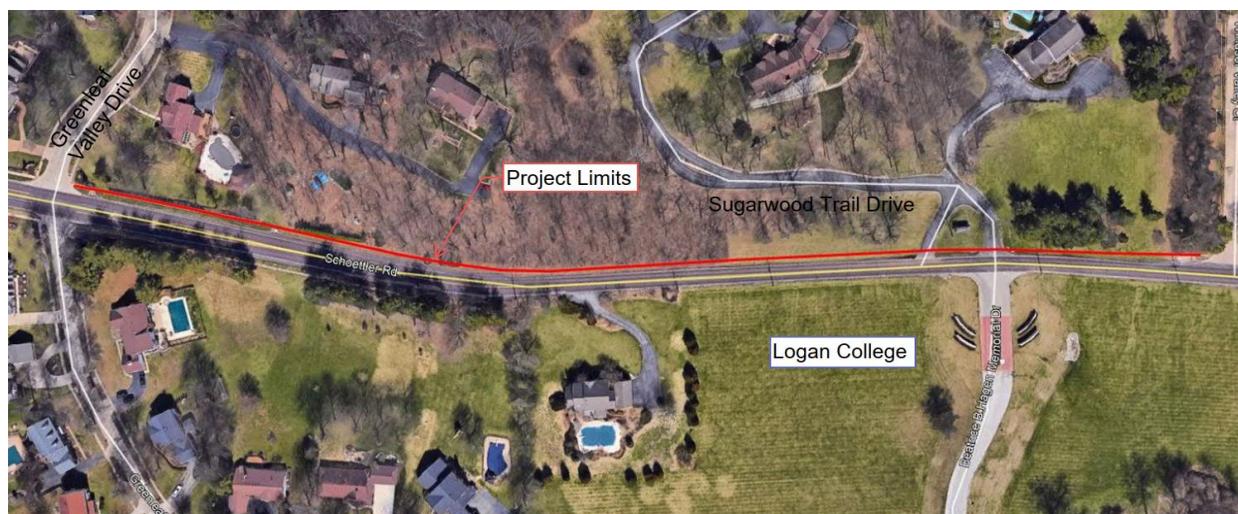
Accessible Ramp Improvements (CDBG-2018) – The City continues to utilize funds available through the Community Development Block Grant (CDBG) Program to construct ADA compliant sidewalks and curb ramps. The 2018 Curb Ramp Replacement Project, which is currently in the design phase, will be constructed 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 was originally anticipated to be available in the fall of this year. However, this project has been postponed until 2019, as we wait for further direction from St. Louis County.



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Schoettler Road Sidewalk – Earlier this year 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 throughout 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, St. Louis County agreed to leave four / five lanes of traffic on Baxter Road, with no dedicated bike lane. In return, the City 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

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\$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. Execution of a Program Agreement with MODOT and execution of a design contract with George Butler and Associates were authorized by City Council on March 19, 2018.

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 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. City Staff is still working with attorneys from CVI regarding concerns about the Exhibits and Legal Descriptions contained within the Agreement Amendment. We expect those to be addressed by the end of the year, and the Agreement Amendment to be executed in early 2019.

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, with survey underway. City Staff is working with GBA, the developer for Aventura, and the St. Louis County Department of Transportation on the optimal location for the trail crossing at Wild Horse Creek Road.



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MISCELLANEOUS PROJECTS

Park 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. Additionally, Street Maintenance personnel will construct improvements to the concrete behind the Amphitheatre in Central Park.



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 at least January of 2019. 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 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.



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Public Works Facility Roof Repairs - The approved 2019 Budget includes \$123,000 for replacement of the roof on the material storage building and the equipment storage building at the Public Works Facility. As Staff progressed with the design of this project, structural deficiencies were discovered that need to be addressed prior to the roof replacements. Staff is currently preparing a bid package for the structural repair project. It is anticipated that the money originally allocated for roof repair in the 2019 budget will be necessary to make the structural repairs. This will delay the roof replacement project until 2020. The structural repair contract will likely be submitted to City Council for approval in the spring of 2019.

Sewer Lateral Program - In the month of November, the City received eight applications for repair, seven of which were approved. Since January 1, 2018, the City has received 139 applications for repair, of which 127 have been approved.



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Street Tree Inspections and Removals – During the month of November, the City received twelve requests for street tree inspections. These inspections resulted in the approval for removal of seven trees. Based upon previous inspections, the City managed the contractual removal of 20 street trees (non-Ash) and the grinding of 75 stumps during the month of November.



Emerald Ash Borer Preparedness Plan and Action Strategy – During the month of November, 25 Ash trees were removed by Public Works maintenance personnel. There are approximately 3,800 Ash trees remaining, which are all scheduled for removal over the next five years.



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Residential Street Tree Planting Program – Farinella Nursery has begun planting those street trees approved as part of the Fall planting. To date 149 of the 369 street trees have been planted. Applications for the Spring 2019 planting are due by the end of January 2019.

