

Public Works and Capital Projects
June 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. Construction began on May 14, 2018 and work is currently underway in the Ladue Farm subdivision and River Bend subdivision. 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. A preconstruction meeting was held on April 5, 2018 and construction is expected to commence this summer. 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. All utility relocations and tree / vegetation clearing have been completed. The upstream (east) side of the culvert has been completed (poured in-place). Traffic was switched to the east side of the culvert on May 29, 2018, as the contractor has begun work on the west portion of the culvert. Due to continued problems with the temporary signals, and the fact that motorists were having no problem navigating the construction area with stop signs, the temporary signals have been removed from the project. Motorists are now required to stop at the signs and yield to any traffic within the work zone. One lane of traffic will remain open throughout the project, which is anticipated to be completed by August 1, 2018.

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. A design kick-off meeting was held in late March. The

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Geotechnical Investigation and Right of Way and Topographic Survey have been completed. Preliminary design is underway. A meeting is scheduled for mid-June to discuss preliminary designs. Once a preliminary design has been completed and approved by the City, the utility coordination and land acquisition phases of the project will commence – which is anticipated to occur late summer.

CAPITAL STREET PROJECTS – GRANT FUNDED

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. On July 17, 2017 City Council approved authorization to enter into a construction contract with Gershenson Construction in an amount not to exceed \$1,510,000. The design engineering firm, Burns and McDonnell, continues to provide construction engineering services for the project as previously authorized.

Gershenson was provided Notice to Proceed on October 16, 2017 and they began work on November 1, 2017 after utility relocations were substantially completed. Phase 1 was completed on December 21, 2017. Phase 2 was completed on April 19, 2018, at which time traffic was switched to the final temporary configuration to allow for Phase 3 construction. Phase 3 (the final phase) is in progress and this project remains well ahead of schedule. The final asphalt overlay was placed on May 25, 2018 and the project is on track for substantial completion this month. Final plantings for the storm water BMPs will be scheduled during the fall planting window.

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 an asphalt overlay and replacement of the culvert just east of Santa Maria. That grant application was not successful. 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 late April. At this time 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, both permanent drainage easements and temporary construction easements will be necessary in order to replace

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this culvert. The City will commence efforts to obtain the necessary easements later this summer.

The 2018 grant application will once again include 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 is requesting federal participation of 80% on this project, which would result in a City share of \$103,432 and a federal share of \$413,731. If we are successful in receiving the grant award we expect to finalize design in 2019 and construct the project in 2020.

SIDEWALKS AND TRAILS

Monarch Chesterfield Levee Trail (Pump Station 4 Construction) – The US Army Corps of Engineers construction project to improve Pump Station 4 is scheduled to be completed in late June. During construction of the project, the Monarch – Chesterfield Levee Trail was closed within the project limits. In early May, the contractor finished his work near the top of the Levee, and subsequently agreed to allow the City to reconstruct the missing section of trail. On May 11, 2018 the City replaced the missing section of asphalt trail. During the week of May 14, 2018, the contractor reconfigured its construction fencing and the Monarch – Chesterfield Levee Trail re-opened on May 15, 2018.

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 closure will remain until the next phase (Phase VI - see below) is constructed, at which time a safety barrier will be installed and the erosion caused by the bridge scuppers will be corrected.

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. City Staff has met several times with the Levee District and we believe that a preferred Levee Trail route has been identified and can be incorporated as part of the Levee District project. The design of the Levee District grading project is nearing completion and is at a point where the design of the Levee Trail extension project can commence. A kickoff meeting has been scheduled with KDG, the City's design

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consultant for the Monarch – Chesterfield Levee Trail. The trail design will eliminate the above-referenced steep grades under the I-64 overpass.

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 will address 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. The contractor should complete this project in early 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-2017) – 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 2017 Curb Ramp Replacement Project was constructed within the Sea Beauty Farms subdivision. A bid opening was held on August 23, 2017, with Byrne and Jones Construction submitting the low bid of \$35,397. City Council approved the bid by Byrne and Jones at its September 18, 2017 meeting. Due to a delay in St. Louis County approval, construction of this project was postponed until the Spring of 2018. Notice to proceed was provided to the

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contractor on March 26, 2018, and construction was completed on May 1, 2018. All final paperwork has been sent to St. Louis County for direct payment to the contractor. This project is entirely funded through the CDBG Program, administered by St. Louis County.

Schoettler Road Sidewalk – City staff has recently 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 includes construction of retaining wall through most of the project limits due to steep existing topography in the vicinity.

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. The City is requesting 80% federal participation on this project, so the City share of the total cost would be \$156,800 and the federal share would be \$627,200. If the City is awarded this grant, project design will be completed in 2019, easements will be acquired in 2020, and the project will be constructed in 2021.

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;

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- 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.

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, including overseeing repairs to the Chesterfield Ridge Center Bridge.

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 has been provided Notice to Proceed on the engineering design phase of the project, and a kick-off meeting has been scheduled.

MISCELLANEOUS PROJECTS

CVAC Improvements – Over the winter Public Works maintenance personnel constructed roughly 300 feet of 24 foot wide concrete pavement at the parking lot at the CVAC. Public Works and Parks personnel met in early May and are investigating several options for paving the remaining section of the lot and installing irrigation and landscape islands.

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 is scheduled to begin in June 2018 and be completed in September 2018. More specifically, Creve Coeur Mill Road will be closed on Monday, June 18, 2018 and the gate for River Valley Drive will be opened at that time. The gate will remain open for the duration of the Creve Coeur Mill Road closure. Once Creve Coeur Mill Road is re-opened in September, 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 May, the City of Chesterfield received eighteen applications for repair, of which seventeen were approved. Since January 1, 2018, the City has received 62 applications for repair, of which 57 have been approved.

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Street Tree Inspections and Removals – During the month of May, the City of Chesterfield received 97 requests for street tree inspections. These inspections resulted in the approval for removal of 74 trees. Based upon previous inspections, the City of Chesterfield managed the contractual removal of 35 street trees (non-Ash) and the grinding of 100 stumps during the month of May.

Emerald Ash Borer Preparedness Plan and Action Strategy – During the month of May, 50 Ash trees were removed by Public Works maintenance personnel. There are approximately 4,100 Ash trees remaining, which are all scheduled for removal over the next five years.

Residential Street Tree Planting Program – The Spring 2018 street tree planting schedule was completed during the last week of May with 149 trees planted.