

Public Works and Capital Projects
April 15, 2020

CAPITAL STREET PROJECTS – CITY FUNDED

2020 Selective Slab Replacement A – The bid opening for Selective Slab Replacement A was held on February 18, 2020, with Amcon Municipal Concrete submitting the low bid. City Council approved a contract with Amcon on March 2, 2020 in an amount not to exceed \$1,100,000. This project began on April 8, with the contractor starting on Schoettler Estates Drive and Mistflower Glen Court. There are 16,739 square yards of concrete pavement replacement as part of this project. Streets include: Schoettler Estates Drive, Mistflower Glen Court, Greystone Manor Parkway, Bonhomme Fork Court, Horse Run Court, Bonhomme Bluff Court, White Robin Court, Greycliffe Drive, and Bonhomme Ridge Court, as well as a trench grate on Bonhomme Ridge Court.

2020 Selective Slab Replacement B – The bid opening for Selective Slab Replacement B was held on February 20, 2020, with JM Marschuetz submitting the low bid. City Council approved a contract with JM Marschuetz on March 2, 2020 in an amount not to exceed \$1,100,000. This project is scheduled to start this Spring. There are 17,525 square yards of concrete pavement replacements as part of this project. Streets include: Greenleaf Valley Drive, Chesterton Lane, Joyceridge Drive, and Barons Way Drive.

Crack Sealing Project – Bids were opened for the 2019 Crack Sealing Project on October 10, 2019, with Sweetens Concrete submitting the low bid of \$56,869. City Council approved a contract with Sweetens at its October 23, 2019 meeting, in an amount not to exceed \$70,000. The project is approximately 95% complete, with punchlist items remaining.

Schoettler Road Improvements (Clayton to Georgetown) – This project will improve Schoettler Road from Georgetown Road to Clayton Road. Improvements will include a center turn lane from Georgetown Road to Schoettler Grove Court, a designated right turn lane near Clayton Road, a new sidewalk on the east side of Schoettler Road, and a new asphalt riding surface. All right of way and easements have been acquired, and final plans were completed earlier this year. Bids were opened on March 3, 2020, with Gershenson Construction Company submitting the low bid. City Council approved a contract with Gershenson on March 16, 2020 in an amount not to exceed \$990,000, and contracts have been fully executed. Staff is currently working with the Parkway School District to relocate its communication line that runs along the east side of Schoettler Road. Construction is expected to commence in May of 2020.

In order to safely and efficiently construct the project, Schoettler Road from Georgetown Road/Schoettler Manor Court to Clayton Road will be temporarily

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restricted to one-way southbound traffic during a portion of construction. A signed detour will be established for northbound traffic. The detour will route vehicles from Clayton Road to Baxter Road - Old Baxter Road - Highcroft Drive - Schoettler Road. It is anticipated that the one-way restriction will be in place for six to eight weeks. A public meeting was held on March 4, 2020 at City Hall during which City Staff answered questions and provided information regarding the project and the upcoming lane restrictions.

Old Chesterfield Road – This project includes the replacement of a deficient culvert and an asphalt overlay on Old Chesterfield Road between Wild Horse Creek Road and Baxter Road. In 2017, the City Council approved a contract with Oates Associates for design services required to reconstruct the deficient culvert under Old Chesterfield Road. Final design has been completed, and all easements have been acquired. Necessary tree removals and utility relocation work have been completed. A public meeting was held on March 4, 2020 at City Hall during which City Staff answered questions and provided information regarding the project and the upcoming road closure.

Bids were opened on April 7, 2020 with Gershenson Construction Company submitting the low bid. Staff is reviewing the bids and will have a recommendation prepared for the May 4, 2020 City Council meeting. Construction is anticipated to begin in late May or early June. On April 7, 2020 the eastbound lane of Old Chesterfield Road, immediately adjacent to the culvert, was closed to traffic. Old Chesterfield Road remains open to two-way traffic; however, eastbound traffic must yield to westbound traffic in the vicinity of the closure. The closure was necessary due to southern edge of pavement being partially undermined. This lane closure will remain in place until the culvert replacement project begins, at which time Old Chesterfield Road will be closed to through traffic for the duration of the project.



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2020 Wildhorse Parkway Bridge Deck Concrete Overlay – The approved 2020 budget includes \$350,000 for a bridge maintenance project to rehabilitate the existing deck on the Wildhorse Parkway bridge over Bonhomme Creek. This project was scheduled for construction this year but has been placed on hold due to financial concerns associated with COVID-19. It is now anticipated that this project will be constructed in 2021.

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Wilson Avenue Asphalt Overlay – City Staff prepared a Surface Transportation Program (STP) grant application to East-West Gateway to fund a pavement preservation project on Wilson Avenue from Chamfers Farm Drive to Wild Horse Creek Road. The overlay limits would exclude the segment of Wilson Avenue that was recently improved during the 2018 culvert replacement project, as well as the existing concrete pavement section. The project scope includes base repairs (as necessary), asphalt milling and overlay, and pavement striping. The application was submitted to East-West Gateway on February 12, 2020. Notice of grant award is expected mid-summer.

Schoettler Road Asphalt Overlay – City Staff prepared a Surface Transportation Program (STP) grant application to East-West Gateway to fund a pavement preservation project on Schoettler Road from Georgetown Road to South Outer 40. The project scope includes base and curb repairs (as necessary), asphalt milling and overlay, pavement striping, and upgrades to ADA curb ramps. The application was submitted to East-West Gateway on February 12, 2020. Notice of grant award is expected mid-summer.

SIDEWALKS AND TRAILS

Accessible Ramp Improvements (CDBG-2019) – This project will reconstruct 17 ADA compliant sidewalk ramps in the Westbury subdivision. The bid opening for the 2019 CDBG Project was held on February 18, 2020, with Sweetens Concrete submitting the low bid of \$34,415. City Council approved a contract with Sweetens at its March 2, 2020 meeting, in an amount not to exceed \$41,900.00. This project is entirely funded through the CDBG Program, administered by St. Louis County. We anticipate construction to begin in late April. Please note that this is a 2019 project, but the CDBG funding was not released by St. Louis County until 2020.

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2020 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 approximately \$500,000 (\$535,000 in 2020).

2020 Sidewalk Replacement A – This project will correct sidewalk deficiencies in Spring Hill Bluffs, Countryside at Chesterfield, Baxter Oaks, Conway Springs, a portion of the Baxter Lakes Addition 2 subdivision, and Sycamore Hill Court. The bid opening was held on March 3, 2020, with Raineri Construction submitting the low bid of \$310,275. City Council approved a contract with Raineri Construction at its March 16, 2020 meeting, in an amount not to exceed \$335,000. Construction is expected to commence in May.

2020 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 for this project was held on April 7, 2020, with Amcon Municipal Concrete submitting the low bid of \$185,050. On April 22, 2020, City Council will consider approval of a contract with the low bidder, Amcon Municipal Concrete, in an amount not to exceed \$200,000. Construction is expected to commence in May of 2020. This is anticipated to be a year-long contract.

2020 Sidewalk Replacement C – This project will address miscellaneous sidewalk deficiencies throughout the City of Chesterfield utilizing a mudjacking process. This project is currently in the design stage with a bid opening anticipated in early summer of 2020. This project will be funded from the remaining balance of 2019 Sidewalk Replacement Project B.

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 the northeast corner of Top Golf. The Levee District originally had a project planned for 2019 to add fill and improve this section of the Monarch-Chesterfield Levee. Bids were accepted by the Levee District last summer, but all bids were rejected due to the high cost of import fill from all bidders. It is now anticipated that construction of the levee

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improvement project will begin in the summer of 2020. The Levee District is currently stockpiling dirt for this project on property it owns near the western entrance to the CVAC.



KDG, the City's design consultant for the Levee Trail, has incorporated the Levee District grading project design into the design plans for Phase VI of the Levee Trail. Phase VI will also include a complete redesign and reconstruction of the Phase V segment of the existing trail under the I-64 overpass, referenced above. The new design will eliminate the steep grade, improve safety, and correct existing erosion problems. The License Agreement between the City and MoDOT, which permits the City's use of MoDOT right-of-way for the trail, will need to be renewed. MoDOT has supplied the City with the renewal agreements, which will be submitted to City Council for consideration of approval at an upcoming meeting.

The plans have been approved by the Monarch Chesterfield Levee District. Final plans are currently being reviewed by MoDOT and MSD. The final easement documents will be completed by the end of April.

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 the proposed trail alignment and other concerns. However, easement negotiations could not progress further until the

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Levee District grading plans were finalized and limits of construction were delineated. Now that the plans and easement documents are nearing completion, we will be able to resume negotiations with the property owners in the near future for the required easements.

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 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. Execution of a Program Agreement with MoDOT and execution of a design contract with George Butler and Associates (GBA) 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, and the closing documents with CVI were signed by the City on June 20, 2019.

Preliminary Engineering plans and Right-of-Way plans have been approved. The final Right-of-Way plans include the CVI property donation and an additional easement from the Aventura property. The final Plans, Specifications, and Estimate (PS&E) will be submitted to MoDOT for approval later this month.

Construction is currently scheduled to commence in late summer of 2020. However, a developer is actively pursuing plans for developing the portion of Downtown Chesterfield around Lake 3 which would include construction of the Burkhardt Place extension. This project may warrant a delay in the Riparian Trail construction schedule to allow for coordination between the City and developer, specifically as it relates to the Riparian Trail crossing at Wild Horse Creek Road. Both the City of Chesterfield and the St. Louis County Department of Transportation agree that the preferred location for the trail crossing at Wild Horse Creek Road is the Burkhardt Place/Aventura intersection, with a traffic signal. However, until recently, the timing of the

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Burkhardt Place extension was future / unknown. Without the Burkhardt extension, a signal on Wild Horse Creek Road is not warranted. Accordingly, as directed by St. Louis County and in accordance with their requirements, the Riparian Trail has been preliminarily designed to cross Wild Horse Creek Road approximately 300 feet to the west of the intersection, as shown below.

To avoid a subsequent relocation of the Riparian Trail, it would be ideal to coordinate construction of the Wild Horse Creek Road crossing at the Burkhardt Place intersection as part of the Downtown Chesterfield development. East-West Gateway understands the situation and timing concern and has advised Staff that the City could be granted a nine-month extension to the project schedule, contingent on East-West Gateway Board approval. The time extension would allow for coordination between the road design and trail design. The City has until June 1, 2020 to apply for the project extension. A decision will be made once we receive additional details and timing on the Downtown Chesterfield development adjacent to the future Burkhardt Place.



Monarch Chesterfield Levee Trail (Pump Station 4 and 6 Backflow Prevention Construction) – The Monarch-Chesterfield Levee District is currently replacing storm water pump discharge pipes and constructing improved backflow prevention structures at Pump Station 4 and Pump Station 6. This project has necessitated the closure of the Levee Trail at both locations. Work on Pump Station #4 began on January 14, 2020 followed by work on Pump Station #6 starting on January 20, 2020. Closure of the Levee Trail in those two locations also occurred on those dates. The closure at Pump Station #4 is anticipated to last until May 2020 and the closure at Pump Station #5 is

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anticipated to last until July 2020. Notices of the trail closures were posted to the City's website and distributed through the City's social media platforms. The City will work with the Levee District to re-open the Levee Trail as quickly as possible once these projects are completed.



MISCELLANEOUS PROJECTS

River Valley Drive Closure – Unfortunately, pavement undermining problems persist in this area, and in late 2019 Staff discovered additional mud being deposited on the road near the River Valley Drive cul-de-sac. It does not initially appear that the current problem is related to the previous utility work. However, water is continuing to flow under the pavement, transporting mud down the hill where it eventually daylights along the western edge of the River Valley Drive pavement and crosses the concrete cul-de-sac. It appears the problem is being caused by the steep grade of River Valley Drive and fractures in the paved swale along the eastern side of the road. Engineering Staff is investigating the problem and working to determine the source of the water under the pavement. Once the source is determined Engineering Staff will design an appropriate solution. Due to this problem, the asphalt overlay of River Valley Drive originally budgeted for 2020 will be postponed.

Public Works Facility Roof Replacements - The roofs on the material storage building and equipment storage building at the Public Works Facility will be replaced in 2020. Bids were opened for the Public Works Facility Roof Replacement project on April 7, 2020 with Glandt Roofing submitting the low bid of \$69,882 (substantially under budget). Staff is reviewing the bids and will have a recommendation prepared for the May 4, 2020 City Council meeting. Construction is anticipated to begin in June and to be complete this summer.

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Brandywine NID – On January 7, 2019 City Council approved a pre-application petition from the Brandywine subdivision for establishment of a Neighborhood Improvement District (NID). This NID is intended to reconstruct the private streets within the Brandywine subdivision. Brandywine submitted its final petition in September 2019, with an approval rate well above the required 66%. Bids for the project were opened on February 18, 2020, with JM Marschuetz Construction submitting the low bid of \$905,747. On March 2, the City of Chesterfield City Council approved Resolution 458 formally creating the NID. On March 16 City Council authorized the project, including a contract with JM Marschuetz in an amount not to exceed \$1,000,000. Construction of this project will commence this summer.

Sewer Lateral Program – In the month of March, the City received six applications for repair, all of which were approved. Since January 1, 2020, the City has received 24 applications for repair, of which 22 have been approved.



Street Tree Inspections and Removals – During the month of March, the City of Chesterfield received 125 requests for street tree inspections. These inspections resulted in the approval for removal of 109 trees. Based upon previous inspections the City of Chesterfield managed the contractual removal of 28 street trees (26 non-Ash and 2 large white ash), as well as the grinding of 125 stumps during the month of March.

Emerald Ash Borer Preparedness Plan and Action Strategy – During the month of March, 85 Ash trees were removed by Public Works maintenance

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personnel. There are approximately 2,600 Ash trees remaining, which are all scheduled for removal over the next three years.

Residential Street Tree Planting Program – The City of Chesterfield received 93 applications for a total of 117 street trees for the Spring 2020 planting. The City’s tree planting contractor, Farinella Nursery, has planted 75 trees thus far. All street tree plantings are managed and inspected by the City Arborist to ensure all specifications are met.

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 are expected to be completed in early summer 2020. Once the Preliminary FIRMs are issued, there will be a formal comment period of 90 days during which affected residents can appeal details within the maps. New effective FIRMs are expected to be formally issued in two to three years. 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.

City Hall Lighting Improvements – In response to concerns about low lighting levels in the City Hall parking lot, the City obtained a photometric analysis of the existing parking lot lighting levels. The photometrics confirmed that the existing lighting generally conforms to current City requirements. However, there are areas where lighting could be enhanced. Additionally, the overall parking lot lighting could be improved by upgrading to more energy efficient LED fixtures.

City Staff has contracted with McClure Engineering to design enhancements to the existing exterior lighting at City Hall and provide construction drawings and specifications suitable for bidding and construction. McClure Engineering is also reviewing the City Hall interior lighting for energy efficiency. A lighting project could potentially be constructed in 2021, subject to City Council approval.

Yarmouth Point Drive – The Missouri Department of Transportation is planning a stormwater improvement project on South Outer 40 Road. This

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project will address ponding water at the intersection of South Outer 40 and Yarmouth Point Drive, directly in front of the entrance to the Chesterfield Hill subdivision. To resolve the ponding water problem, MoDOT plans to regrade the intersection and install five new stormwater inlets. The project will be phased to allow one lane of traffic to remain open during construction on each side of the divided entrance on Yarmouth Point Drive. This MoDOT project is scheduled to begin in July 2020, and be completed by December.