

**Public Works and Capital Projects
June 15, 2020**

CAPITAL STREET PROJECTS – CITY FUNDED

2020 Selective Slab Replacement A – At its March 2, 2020 meeting, City Council approved a contract with Amcon Municipal Concrete in an amount not to exceed \$1,100,000. Construction began on April 6, 2020 and work is currently underway on Greystone Manor Parkway, Bonhomme Ridge Court, Bonhomme Fork Court, and Bonhomme Bluff Court. There are 16,739 square yards of concrete pavement replacement as part of this project. This project is approximately 50% complete. 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.



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2020 Selective Slab Replacement B – At its March 2, 2020 meeting, City Council approved a contract with J.M. Marschuetz in an amount not to exceed \$1,100,000. Construction began on April 30, 2020 and work is currently underway on Greenleaf Valley Drive, Chesterton Lane, Joyceridge Drive, and Barons Way Drive. There are 17,525 square yards of concrete pavement replacements as part of this project. The project is approximately 45% complete.



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 was completed, under budget, in early May.

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.

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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 one-way lane restrictions. City Council approved a contract with the low bidder Gershenson Construction on March 16, 2020 in an amount not to exceed \$990,000.

Work on the Schoettler Road Project began on April 29, 2020, with the one-way southbound restriction being implemented on that date. A signed detour is in place that routes vehicles from Clayton Road to Baxter Road to Old Baxter Road to Highcroft Drive and back to Schoettler Road. It is anticipated that the one-way restriction will be in place until early July. Gershenson is currently in the process of installing storm sewer and placing the roadway concrete base material along the eastern side of Schoettler Road.



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 delayed due to financial concerns associated with COVID-19. It is now anticipated that this project will be constructed in 2021.

Old Chesterfield Road – This project includes the replacement of a deficient culvert and an asphalt overlay on Old Chesterfield Road between Wild Horse

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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 for this project were opened on April 7, 2020 with Gershenson Construction Company submitting the low bid. City Council approved a contract with Gershenson Construction Company on May 4, 2020 in an amount not to exceed \$550,000. Notice to proceed was issued on June 1, 2020. On June 2, 2020 the section of Old Chesterfield Road between the entrance to the Chesterfield Mobile Home Park and Ameren's power substation located at 16618 Old Chesterfield Road was closed to thru traffic. Access to all properties on Old Chesterfield Road will be maintained. A signed detour is in place to direct traffic around the closure via Baxter and Wild Horse Creek Road. Missouri American Water Company and Spire are currently in the process of cutting and capping their water and gas mains in the area of the culvert. Their work is anticipated to be complete by June 19, at which time Gershenson Construction will begin work to replace the culvert.



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Wilson Avenue Asphalt Overlay – City Staff prepared a Surface Transportation Program (STP) grant application to fund a pavement preservation project on Wilson Avenue from Chamfers Farm Drive to Wild Horse Creek Road. The overlay limits excluded 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 included base repairs (as necessary), asphalt milling and overlay, and pavement striping. The application was submitted to East-West Gateway on February 12, 2020, but the City received notice last month that the project was not recommended for funding by East-West Gateway. This project will remain in the Capital Projects five-year plan.

Schoettler Road Asphalt Overlay – City Staff prepared a Surface Transportation Program (STP) grant application 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, but the City received notice last month that the project was not recommended for funding by East-West Gateway. This project will remain in the Capital Projects five-year plan.

SIDEWALKS AND TRAILS

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. City Council approved a contract with Raineri Construction at its March 16, 2020 meeting, in an amount not to exceed \$335,000. Construction began on May 7, 2020. The sidewalk replacement is complete in the Spring Hill Bluffs subdivision and approximately 30% complete in the Countryside at Chesterfield subdivision.

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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). City Council approved a contract with Amcon Municipal Concrete at its April 22, 2020 meeting, in an amount not to exceed \$200,000. Construction began on June 5, 2020. This is anticipated to be a year-long contract.

2020 Sidewalk Replacement C – This project was to address miscellaneous sidewalk deficiencies throughout the City of Chesterfield utilizing a mudjacking process. This project has been placed on hold due to financial concerns associated with COVID-19.

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Accessible Ramp Improvements (CDBG-2019) – This project will reconstruct 17 ADA compliant sidewalk ramps in the Westbury subdivision. 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. Construction began on June 1, 2020. Please note that this is a 2019 project, but the CDBG funding was not released by St. Louis County until 2020.



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. There is not currently a definitive schedule for commencement of the Levee District project. The Levee District is currently stockpiling dirt for this project on property it owns near the western entrance to the CVAC. The Levee Trail cannot be extended in this area until after the Levee District project is complete.

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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 Agreements between the City and MoDOT, which permit the City’s use of MoDOT right-of-way for the trail under the I-64 bridges on the west and east ends of Chesterfield Valley, will need to be renewed. An ordinance approving a new ten-year License Agreement is scheduled for second reading at the June 17, 2020 City Council meeting.

The Levee Trail plans have been approved by the Monarch-Chesterfield Levee District and the Army Corps of Engineers. KDG is currently addressing plan review comments from MoDOT and MSD. The final easement documents were completed at 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. Accordingly, City Staff will be working with the three affected property owners in order to acquire the easements necessary to construct the Levee Trail extension. We are currently obtaining appraisals for the impacted properties, and we expect to commence negotiation by sending letters later this month.

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

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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 by MoDOT. Construction was originally planned 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 will include construction of the Burkhardt Place extension and signalization of the Burkhardt Place/Wild Horse Creek Road intersection. In order to allow for necessary coordination with the developer on design of the trail crossing at the

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new signal, Staff submitted a project extension request to East-West Gateway in May. The City will be notified of the extension request approval after the Board of Directors vote on June 24. Once approved, the final Plans, Specifications, and Estimate (PS&E) for the trail will be revised to coordinate with the Burkhardt extension plans. Construction of the Riparian Trail will likely commence in the summer of 2021.

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. The trail closure at Pump Stations #4 and #6 is expected to last until the end of June. The City is responsible for restoring the trail at both locations once construction has been completed. Staff is coordinating with the contractor to schedule the trail restoration work as quickly as possible once the construction is complete.



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

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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 on April 7, 2020 with Glandt Roofing submitting the low bid of \$69,882 (substantially under budget). City Council approved a contract with Glandt Roofing on May 4, 2020 in an amount not to exceed \$76,900. Contracts have been executed and Notice to Proceed was issued on June 5, 2020. We expect the contractor to begin work later this month, and the project will be completed no later than September 3, 2020.

Sewer Lateral Program – In the month of May, the City of Chesterfield received nine applications for sewer lateral repair, seven of which were approved. Since January 1, 2020, the City has received 42 applications for repair, of which 37 have been approved.



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

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NID. On March 16, City Council authorized the project, including a contract with JM Marschuetz in an amount not to exceed \$1,000,000. The project is being managed by City Staff and construction activity began on June 12, 2020.

Street Tree Inspections and Removals – During the month of May, the City of Chesterfield received 123 requests for street tree inspections. These inspections resulted in the approval for removal of 115 trees. Based upon previous inspections, the City of Chesterfield managed the contractual removal of 19 street trees (15 non-Ash and 3 large white ash) as well as the grinding of 115 stumps during the month of May.

Emerald Ash Borer Preparedness Plan and Action Strategy – During the month of May, 75 Ash trees were removed by Public Works maintenance personnel. There are approximately 2,500 Ash trees remaining, which are all scheduled for removal over the next three years.

Residential Street Tree Planting Program – In May, Farinella Nursery completed the installation of the Spring 2020 planting list, which totaled 117 trees. The City has also been working with Farinella to replace dead or declining trees covered under the one-year warranty. Sixteen such trees were replaced in May.

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 the summer of 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.

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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 plans and specifications suitable for bidding and construction. McClure Engineering is also reviewing the City Hall interior lighting for energy efficiency. Both the interior and exterior lighting design projects are nearing completion and lighting project(s) 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 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.

MoDOT opened bids for the project in May, and Gershenson Construction was the apparent low bidder. It is expected that the contractor will be given a notice to proceed to start work on July 6, and work will be complete by December 1, 2020.