

**Public Works and Capital Projects
December 14, 2023**

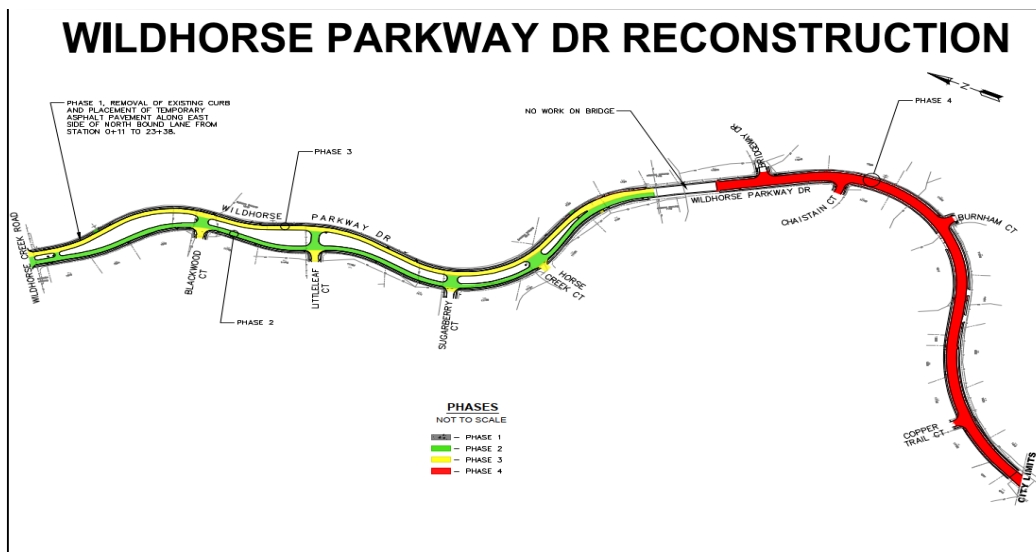
CAPITAL STREET PROJECTS – CITY FUNDED

Wildhorse Parkway Reconstruction (2023 Slab Project A) – This project will reconstruct Wildhorse Parkway from Wildhorse Creek Road to the Chesterfield/Wildwood City limits, excluding the bridge. The project includes reconstruction of the existing pavement, replacement of curb ramps, and widening the roadway by one foot on both sides to accommodate two-way traffic during reconstruction. The widening will also increase safety for future maintenance activities that require partial lane closures. Bids were opened March 7, 2023, with Next Level Construction submitting the low bid of \$2,940,310 (approximately \$300,000 over budget). After considering options, including a project delay and scope reduction, City Council approved a contract with Next Level in an amount not to exceed \$3,100,000. This necessitated a Budget Adjustment of \$450,000 from the Capital Projects - Fund Reserves.

This project has been broken into four phases as follows:

- Phase 1 included the addition of pavement to the northbound lane. That work was completed on August 11, 2023
- Phase 2 involved the closure of the southbound lanes and the rerouting of two-way traffic onto the northbound lane. That work began on August 14, 2023 and was completed on October 6, 2023.
- Phase 3 closed the northbound lane and routed two-way traffic onto the newly constructed southbound lane. Work on Phase 3 began on October 9, 2023 and was completed on November 10.
- Phase 4 includes conventional slab replacement (no median) on the remaining pavement between the bridge and Wildwood. Work on Phase 4 began on Sept 22 and is approximately 70% complete.

This project has been suspended due to winter weather conditions and will resume in April of 2024.



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The Wildhorse Parkway Project is much more complex than our typical slab replacement project due to the configuration and traffic volume of Wildhorse Parkway. Residents are encouraged to access the project page located on the City's website for additional information. The remaining project schedule will be posted to the project once a re-start date is determined.

2023 Slab Replacement Project B – The bid opening for Selective Slab Replacement Project B was held on January 25, 2023, with Next Level Construction submitting the low bid of \$881,179. City Council approved a contract with Next Level Construction on February 6 in an amount not to exceed the budgeted amount of \$1,000,000. This project included approximately 9,600 square yards of concrete pavement replacement. Streets that were improved as part of this project include Royalbrook Drive, Whitestone Farm Drive, and Woodland Field Court. This project was completed on August 15, 2023 at a total cost of \$844,733. The remaining balance of \$155,000 was transferred to Slab Replacement Project C – see below.



2023 Slab Replacement Project C – Due to a severe staffing shortage in the Street Maintenance Division, the Public Works Department added Slab Replacement Project C in 2023. This project addressed approximately 200 deficient concrete slabs located throughout the City of Chesterfield. On May 15, 2023, City Council approved a contract with Amcon Municipal Concrete in

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an amount not to exceed \$655,000 - \$500,000 plus the remaining balance from Slab Replacement Project B. This project was completed on November 29, 2023 at a cost of \$629,088.

Crack Sealing Project – Bids for the 2023 Crack Sealing Project were opened on November 7, 2023 with Sweetens Sealing Services submitting the low bid of \$89,130. City Council approved a contract with Sweetens Sealing Services on November 20, 2023 in an amount not to exceed \$100,000 (budget). This project will take approximately 90 days to complete, with crack sealing occurring on nearly 24 miles of public streets.

Asphalt Overlay Project – This project constructed a new asphalt driving surface on Justus Post Road, North Goddard Avenue, Old Baxter Road, and Wilson Avenue (top of hill to Wilson Manor Drive). Work included two-inch milling, base repairs (as needed) and replacement of deteriorated curb and gutter sections. A public bid opening was held on August 8, 2023 with Ford Asphalt submitting the low bid. On August 21, 2023, City Council approved a contract with Ford Asphalt in an amount not to exceed the budgeted amount of \$420,000. Work began on September 25 and was completed on November 8, 2023 at a total cost of \$400,653.

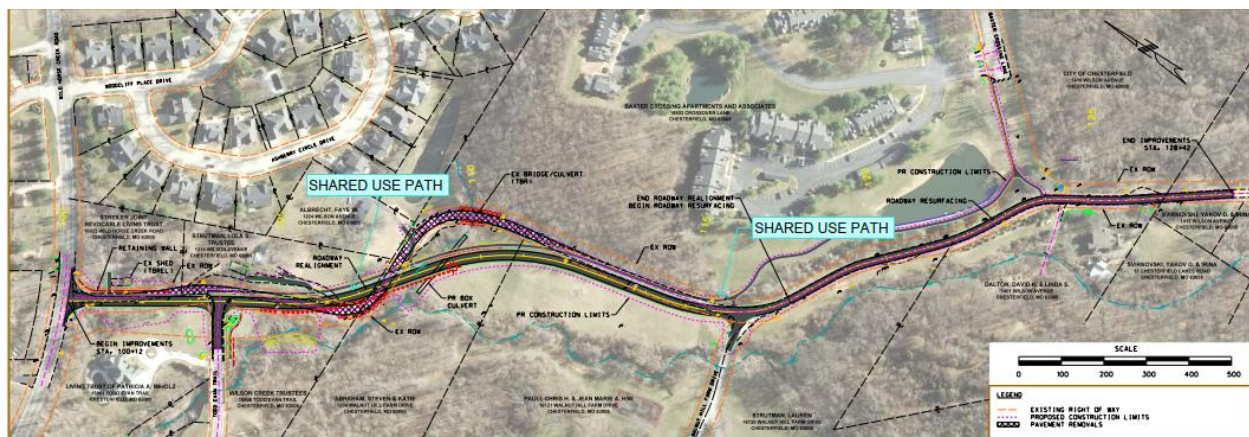


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The City's 2023 Asphalt Overlay Project originally included an asphalt overlay on Old Olive Street Road just south of the Phillips 66 in western Chesterfield Valley. However, during utility coordination, it was determined that Missouri American Water planned to replace a water main directly under one of the driving lanes of Old Olive Street Road. City Staff and representatives from Missouri American Water met to determine the best way to coordinate the necessary work. Once the water main replacement was completed, Missouri American Water restored the pavement with a full-width asphalt surface course. The City then reimbursed Missouri American Water for all costs outside the scope of their required pavement restoration. The work on Old Olive Street Road was completed on April 13, 2023.

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Wilson Avenue Improvements – On November 1, 2021 City Council approved a contract with Oates Associates in an amount not to exceed \$310,000 for design services necessary in order to construct improvements to the northern portion of Wilson Avenue. The design contract with Oates was executed on November 17, 2021. Based on the current design, the anticipated project cost is \$2,143,100, which includes \$1,633,100 for construction, \$340,000 for right-of-way/easement acquisition, and \$170,000 for construction inspection services. The preliminary design was presented to the public on January 24, 2022. On February 7, 2022, City Council authorized City Staff to submit a Surface Transportation Program (STP) grant application to East-West Gateway to partially fund this project. The grant request was submitted on February 10, and included a request for federal funding of \$1,143,170 (70% of the construction cost).



The East-West Gateway Board of Directors officially approved awarding a grant for this project on August 31, 2022. A Program Agreement with the Missouri Highway Commission was approved by City Council on March 6, 2023. According to the grant schedule, right of way acquisition will begin in 2024 and

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construction will commence in 2026 (unless an earlier date is authorized by East-West Gateway).

A public open house was held on April 25, 2023 at Chesterfield City Hall. Staff reviewed the preliminary plans with residents who were able to provide their comments on the plans. Preliminary plans have been completed and were approved by MoDOT on September 6, 2023. Right-of-way plans have been completed and were approved by MoDOT on October 9, 2023. There are ten parcels for which right of way and/or easement acquisition will be necessary. Of those ten parcels, six parcels will require full appraisals in accordance with MODOT requirements. The City has contracted with an appraiser for these services and it is anticipated that appraisals will be completed in January. Once the appraisals are completed, letters will be sent to the property owners and right of way acquisition will commence in early 2024 – right on schedule.

GRANT APPLICATIONS

Highcroft Drive/Old Baxter Road Improvements – As directed by the Planning and Public Works Committee in late 2022, the Engineering Staff solicited resident feedback for improvements to Highcroft Drive from Schoettler Valley Drive to Baxter Road, including the asphalt portion of Old Baxter Road near Eberwein Park. That feedback, which included a survey and trustee meetings, was evaluated and used to prepare a grant application for improvements to Highcroft Drive.

Staff submitted a Surface Transportation Block Grant Program (STBG) grant application to East-West Gateway for this project on February 8, 2023. The grant application requested funding for 80% of the total project cost, estimated at \$2,054,000. On May 10, East-West Gateway notified the City that the application did not receive a recommendation for funding. City Engineering Staff met with East-West Gateway for feedback on the application and is planning to submit an improved grant application in 2024.



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Schoettler Road Sidewalk – On March 31, 2023, the East-West Gateway Board of Directors formally approved the City’s Transportation Alternatives Program (TAP) grant application for construction of a sidewalk extension on the east side of Schoettler Road, from Windsor Valley Court to Greenleaf Valley Drive. This sidewalk extension will fill the last remaining sidewalk gap on Schoettler Road and provide a pedestrian route on at least one side of Schoettler Road from Clayton Road to Chesterfield Parkway. This sidewalk extension will also provide a pedestrian route for residents to access Logan Park. The Program Agreement between the City and MoDOT has been executed by all parties.

In accordance with MODOT requirements, the City of Chesterfield posted a Request for Qualifications (RFQ) on the MODOT website. Ten firms submitted proposals, from which City Staff selected Horner and Shifrin as the most qualified firm to provide the necessary engineering services. City Engineering Staff subsequently negotiated a scope and fee, which was incorporated into an Engineering Services Contract that was approved by City Council on December 4, 2023. Engineering design will commence in 2024, followed by right-of-way acquisition in 2025 and construction in 2026.



Pathway on the Parkway – Engineering Staff submitted a Transportation Alternatives Program (TAP) grant application to East-West Gateway on July 20, 2023 to fund the construction of a new sidewalk on the south side of Chesterfield Parkway East, between Clarkson Road and the Schoettler Spur Road. The project will also convert the northern lane of the Schoettler Spur Road to a pedestrian/bicycle shared use path, and it will connect a five-foot sidewalk from Schoettler Spur to the existing sidewalk at Chesterfield Pines.

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The final grant application included a request for \$1,832,000 in federal funding, with a total project cost of \$2,290,000 – resulting in a City share of \$458,000. This grant application was recommended for funding by the Missouri Transportation Planning Committee at its October meeting. The funding recommendation will be considered for final approval by the East-West Gateway Board of Directors January 2024. Once approved, a Program Agreement will be presented to City Council for final City approval. If approved, design will likely commence in 2025 with construction scheduled for 2027.

SIDEWALKS AND TRAILS

2023 Sidewalk Leveling Project – This project involved the leveling of sidewalk sections to remove deficiencies through the use of a mud-jacking process. Sidewalk leveling was completed in the following subdivisions: Chesterfield Meadows, Wilson Manor, Bent Tree, and Wilson Farm. The Sidewalk Leveling Project allows the City to repair additional sidewalks by reducing the number of slabs that require full removal and replacement within the Sidewalk A Project. On February 21, 2023, City Council approved a contract with Lift Rite in an amount not to exceed \$100,000. Construction began on April 17, 2023 and has been completed at a total cost of \$100,000.



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Additionally, in 2023 City Council approved a second project with Precision Concrete Cutting, whereby Precision removed sidewalk deficiencies through the use of a proprietary saw-cutting method. This work occurred in the Sycamore Manor subdivision. The cost of this project was approved in an amount not to exceed \$30,000. Construction on the Precision project began on April 3, and has been completed at a total cost of \$30,000.

2023 Sidewalk Replacement A – This project replaced deficient sidewalks in a number of subdivisions, including Chesterfield Meadows, Wilson Manor, Bent Tree and Wilson Farm. The bid opening for this project was held on March 7, 2023, with E Meier Contracting submitting the low bid of \$186,388. On March 20, City Council approved a contract with E Meier Contracting in the budgeted amount of \$200,000. Construction began on August 18, and has been completed at a total cost of \$192,508.



2023 Sidewalk Replacement B – This project addressed miscellaneous sidewalk deficiencies throughout the City, primarily identified through Work Orders and Requests for Action (RFAs). The bid opening for this project was held on February 21, 2023, with Amcon Municipal Concrete submitting the low bid of \$167,500. On March 6, City Council approved a contract with Amcon Municipal Concrete in an amount not to exceed the budgeted amount of \$200,000. Construction began April 27 and has been completed at a total cost of \$199,328.

Accessible Ramp Improvements (CDBG-2022) – This project included the reconstruction of ten ADA compliant sidewalk ramps in the River Bend Estates Addition subdivision. A bid opening was held on February 7, 2023, with Spencer Contracting submitting the low bid of \$55,534. On February 21, City

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Council approved a contract with Spencer Contracting. Construction began on March 27 and has been completed at a total cost of \$55,534. The City has been reimbursed \$41,900 for this project from St. Louis County through the Community Development Block Grant program.



Eberwein Park – This project involved the removal of the aggregate trails located throughout Eberwein Park and replacement with a new concrete trail. The trail has been relocated in an effort to minimize the grade and prevent the erosion problems that have been affecting the Eberwein Park trails since they were originally constructed. An Engineering Services Contract with Horner and Shifrin was approved by City Council on May 3, 2021. Design was completed in the spring of 2022, at which time the project was advertised for bid. On June 7, 2022, City Council approved a contract with the low bidder, Kozeny-Wagner, in an amount not to exceed \$840,000. A pre-construction meeting was held on July 7 and construction began on August 1.

While excavating for the new section of trail west of the pond, it was discovered that the dam had several leaks and needed to be reconstructed prior to constructing a new trail adjacent to it. Staff obtained an estimate from Kozeny-Wagner to reconstruct the dam and repair the pond, which was presented to City Council for approval at its September 6, 2022 meeting. City Council approved the proposal and authorized a supplemental agreement with Kozeny-Wagner in an amount not to exceed \$275,000. This increased the total project cost to \$1,115,000.

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The Eberwein Park project was substantially completed on May 15, 2023. The new trails have completely transformed Eberwein Park and have been well received by park users. A grand re-opening was held on Friday, July 7 during which Staff handed out hot dogs/chips to park users and dog treats to their canine companions. The total cost of the project was \$1,094,154. Earlier this month the City was officially notified that this Project received the Project of the Year Award from the Missouri Chapter of APWA. More details will be provided once we are officially presented the award on December 19, 2023.

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 – Phase VI of the Monarch-Chesterfield Levee Trail extends from just north of I-64 to the northeast corner of Top Golf. Once constructed, this section will fill the remaining “gap” in the Levee Trail.

The Monarch–Chesterfield Levee is located on private property and the City has no right to construct a trail on the levee without acquiring the necessary easements. After multiple failed attempts to acquire the easements amicably, the City filed for condemnation of the easements in 2022. The condemnation process began with the requisite Commissioner Hearing on January 19, 2023. The City Attorney and City Engineering Staff presented project information to the Commissioners who were tasked with determining a value for the easements. On March 3, 2023, the City was notified that the Commissioners awarded \$93,000 to the property owners, including heritage value, for the easements. This is approximately \$60,000 higher than the City originally offered, but substantially lower than the \$12 million requested by the property owners. The award has been appealed by the property owners who have requested a jury trial before the City takes possession of the easements.

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A project bid opening was originally anticipated in 2023. However, because the property owners have contested the easement award and requested a jury trial, the bid opening and subsequent construction timing are unknown and cannot be accurately estimated. Once a jury trial is held and an easement value is assessed by the court and accepted by the City, we will update this report and create a schedule for this project.



MISCELLANEOUS PROJECTS

Main Circle Drive – In cooperation with the Parks Department, the Engineering Staff managed the design and construction of an extension of Main Circle Drive from its former terminus at the Main Circle Drive roundabout to Veterans Place Drive. Construction bids for the project were publicly opened on August 23, 2022, after which City Council authorized a contract with the low bidder, RV Wagner, in an amount not to exceed \$598,000. This project was funded through the 2020 Certificates of Participation Bond (2020 COPs) for improvements to Central Park. The road was constructed at a total cost of \$561,693 and opened to the public on May 4, 2023.

2023 Bridge Deck Sealing and Epoxy Overlay – This project included the sealing of the bridge decks, sidewalks, and barrier walls on Timberlake Manor Parkway, Schoettler Road, Eagle Bluff Court, Ladue Road, the Chesterfield Parkway Pedestrian Bridge, and Chesterfield Ridge Center Drive, and an epoxy overlay on the Chesterfield Ridge Center Drive bridge deck. Bids for this project were publicly opened on April 18, 2023 with RV Wagner submitting the only bid. City Council authorized an agreement with RV Wagner at the May 1

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Council meeting in an amount not to exceed \$235,000 – well below the budgeted amount of \$270,000. All work for this project is now complete at a total project cost of \$202,534.

Sewer Lateral Program – In the month of November, the City received nine applications for sewer lateral repairs, eight of which were approved. Since January 1, the City has received 100 applications for repair, of which 89 have been approved.



Emerald Ash Borer (EAB) Preparedness Plan and Action Strategy – The Public Works Department has successfully completed the removal of 6,675 public Ash Trees - the overwhelming majority of which were removed by in-house Street Maintenance personnel. Please note that there are 34 public Ash Trees which are being treated by adjacent residents. These remaining Ash Trees will be regularly monitored by the City Arborist and scheduled for removal once they begin to show substantial signs of decline due to damage from the Ash Borer or the stress of treatment from the injections.

Eight years after the initial EAB detection in 2015, infestation numbers for the Emerald Ash Borer have yet to reach the top of the estimated population curve. Missouri State Forestry entomologists continue to forecast that the EAB infestation around the St. Louis area will peak in 2025 and that 99% of all Ash trees will die due to the damage caused by the borer. By taking proactive action, the City was able to avoid large-scale damage associated with dead/dying/hazardous Ash trees.

Street Tree Inspections and Removals – During the month of November, the City received 23 requests for street tree inspections. These inspections resulted in the approval for removal of seven street trees. Based upon previous

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inspections, the City managed the contractual removal of nine street trees as well as the grinding of 20 stumps during the month of November.



Residential Street Tree Planting Program – In November, Farinella Nursery began installing trees requested as part of the Fall Planting. To date 45 of the 269 requested trees have been planted. We are currently accepting applications for the Spring 2024 Planting, with a deadline of March 30, 2024.

2022 Parking Lot and Trails Seal Coat – This project included sealing and restriping several City parking lots and trails. A bid opening was held on July 19, 2022 with Parking Lot Maintenance submitting the low bid, which was subsequently approved by City Council. Crack sealing work, which was intentionally postponed until the spring of 2023, began on March 6 and was completed on March 24. This was immediately followed by the seal coating of the Levee Trail, Meditation Park, and multiple Chesterfield Valley Athletic Complex parking lots. This project is complete and all lots have been reopened. The total cost of the project was \$371,520.

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 comment on the changes. SEMA held additional meetings in January of 2019, at which time they announced that preliminary FIRMs were

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expected to be completed in the summer of 2020. The issuance date of the preliminary FIRMs has been delayed numerous times. The most recent update from SEMA, received on July 5, 2023, indicated preliminary maps were projected to be issued by November 2023. To date the maps have not been issued. Staff has reached out to SEMA for an update. As of the date of this report, Staff has not received a response from SEMA. The effective date of the new maps is yet to be determined. 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.

Public Works Facility Mezzanine Storage – On May 15, 2023, City Council approved a contract with Archimages in an amount not to exceed \$57,000 for architectural and engineering design services related to construction of a mezzanine storage area in the vehicle and equipment service area of the Public Works Facility. This effort to improve the Public Works Facility began with a feasibility study in 2021 which generated a schematic design and preliminary construction cost estimate. Plans and bid documents are nearing completion and will be completed by the end of this year in anticipation of bidding a construction project in 2024.

Archery Range Improvements – On July 17, 2023, City Council approved a contract with Stock & Associates in an amount not to exceed \$43,500 for surveying and engineering design services related to permitting and construction of an archery range adjacent to the City's existing Police firing range. Field survey work has been completed, and design work, including agency coordination, is in progress. Plans and permit documents are expected to be completed by the end of this year. This project will be constructed by Parks Maintenance personnel.

Amphitheater Back-of-House and Restroom Improvements – On October 24, 2023 City Council authorized a contract with Bond Architects in an amount not to exceed \$265,000 for architectural and engineering design services related to construction of a restroom and back of house improvements at Chesterfield Amphitheater. The goal of the back of house improvements is to enhance existing facilities by adding: a habitable lounge space, dressing rooms, additional restrooms with shower facilities, a kitchen, and laundry space. The project also involves re-facing and extending the roof of the existing storage structure, adding an outdoor space west of the changing room, and evaluation of the circle drive for improving tour bus access and parking. On October 31, a project kickoff meeting was held with Bond Architects and City Staff. Currently, Bond Architects is working on finalizing the schematic design for the proposed improvements. Plans and bid documents are anticipated to be completed by the summer of 2024.