



City of Wisconsin Rapids
 Joseph M. Terry, P.E.
 Director of Public Works
 444 West Grand Avenue
 Wisconsin Rapids, WI 54495-2780
 Phone (715) 421-8255 FAX (715) 421-8291

Director of Public Works Report

Activity highlights for the month of August 2021

Engineering:

Misc.

- 27 Permits/Applications for asphalt paving (1), driveway grades/concrete pour inspections (10), storm water (0), excavating (5), Street Privilege (2), storm connection (0), permit parking (8), banner (1)
- 181 Diggers Locates for Storm Sewer & Sanitary Sewer as of 8/30/2021 (1 Emergency)
- Degradation fees –
 - August degradation fees
 - \$0.00
- City/DOA flood mitigation: The DNR is working on their review of the hydrologic and hydraulic model. We anticipate getting approval for the project in early September..

Traffic

- Vision Triangle Complaints
 - 4th Ave N and W Grand Ave – Southbound left – review is ongoing
- Stop Sign Requests – review is ongoing
 - 4/20/2021 – 12th St and Chestnut St.
 - 3/11/2021 - Apricot St at 15th St or 16th St.
 - Washington St and 10th St stop sign request July 2021
- ITS Standalone Signal Grant
 - City received a State / Municipal Agreement on 8/30/2021. Following execution, the City will solicit proposals from consultants and bring those before the Public Works Committee.
- Signal complaints
 - Washington St & STH 54 vehicle detection issues
 - 8th St and Expressway EB left turn lane detection issues
 - 8th St and Baker St Signal Timing complaint along with detection issues - resolved
 - 8th St sign bridge at Chestnut St fell and needs replacing – working with vendor on new sign and base.
 - Modified vehicle detection at STH 54/Expressway to better accommodate gaps in vehicles approaching the intersection. Further modifications/tweaks will be made in late January. Monitoring is continuing.

Project Designs/Construction underway:

2021 Design Projects

- RECC Rail Spur – Plan review by the DOT continues. Staff is continuing to work toward bid letting, which we expect will be possible in early September Construction is still planned for Fall 2021.

Maintenance Projects

- Sidewalk and Curb & Gutter Maintenance – Contractor will be continuing sidewalk work through mid-September.

2021 Reconstruction Projects

- Quadplex project – Staff have reached out to the new property owners along Grove Ave and are waiting to hear back. This right-of-way is needed to build the sewer and water with discussions with property owners ongoing since March 2021.
- 11th St (Washington St to Apricot St) – Paving is anticipated for September 1st.
- 15th St (Apricot to Norton St) – Project is complete.
- 18th Ave (2021 Construction) – Crews are currently working north of Chase St. on underground utilities.
- Jefferson St (2021 Construction) – Project is complete.

2022 Reconstruction Projects

- Preliminary Construction Estimates have been updated for 2022 projects.
- Preliminary survey status for 2022 Projects:
 - Fremont St (13th Ave to 14th Ave) – 100%
 - Fremont St from 7th Ave N to 10th Ave N – 100%
 - Apricot St retaining wall repair and underdrain installation – 100%
 - Broadway St – 0%
 - 9th Ave N (8th Ave N to Fremont) – 100%
 - Smith St & Cherry St – 0%
- Design for 2022 Projects
 - Fremont St – 13th to 14th Ave design - 95% complete
 - W Jackson St – Expressway to Jackson St Bridge – 95% complete
 - Fremont St – 7th to 10th Ave design is 70% complete
 - Apricot St and Broadway St – 30% complete
 - 9th Ave N (8th Ave N to Fremont St) – 15%
 - Smith & Cherry St – 0%

Storm Water Utility

- 8th St Culvert Replacement / Rehabilitation

City crews completed the culvert installation in August and are working to have the restoration complete by or shortly after Labor Day.

Two bids were received with the low qualified bidder at \$352,000 for installation with the City providing the materials, making the total project \$399,000. This was about \$289,000 over the engineering estimate for the total project.

The Common Council gave staff the authority to approve the lowest qualified bid, but considering the high cost staff elected to deny all bids. Given the deterioration was happening faster than expected, plans were revamped to facilitate expeditious construction with City crews.

Instead of slip-lining and using pumped grout into the void space between the old pipe and new pipe, City crews open-cut the trench. This resulted in the necessity to repave the patch area, which was not part of the initial project scope. As the pavement was removed, large voids were discovered outside of the old pipe which would not have been filled using the originally planned slip-line/grout method. As a

result the open cut method was best way to perform the repair with the highest level of structural integrity.

Just days before the patch was ready to be paved, the City's asphalt paving contractor submitted a change order proposal. While the unit price was slightly less than the unit price for patch work for the existing contract, because the asphalt pavement thickness needs to be 7", the total price of asphalt was \$49,350. This change order would result in the asphalt contract increasing by 13.6%. City policy allows staff to approve change orders for up to 8%. Because staff knew the need to pave the patch could not be averted, staff involved the Mayor to collectively approve the change order in spite of the policy limitations, believing the actions were urgent in nature. In a future meeting it may be desirable to readdress this policy.

While there are still some bills that have yet to be submitted, staff estimated the total project will be no more than \$165,000. While this is more than the initial project of \$110,000, it is \$234,000 less than the bid.

As Director of Public Works, congratulations are in order for the engineering and construction staff and supervisors involved in this project. Their quick work to redesign the project, break away from other responsibilities, and perform the repairs and restoration at less than half of contract bid price demonstrates their commitment to service and value to the City.

- Storm Utility Billing Updates are ongoing with WWLC in July and August.
- One Mile Cr. – City is working on completing the application for the dredging component of the project which could occur in winter. MSA is expecting to have final plans for the dam removal and dam rehabilitation complete in September or early October. This work is anticipated for spring of 2022 as long as the DNR has issued permits.

Streets, Buildings, and Grounds:

Refuse and Recycling

- Garbage Collection estimated 453.14 tons (2020 420.37 tons)
- Recycling Collection estimated 103.07 tons (2020 91.57 tons)

Construction

- *LHS Community Quadplex Project*
 - Continue project Fall of 2021
- *15th Street North (Norton Street – Apricot Street)*
 - *Project Complete*
- *Jefferson Street (25th Ave N – East Dead End)*
 - *Existing weeds sprayed with Roundup to kill the weed growth, restoration to take place in future weeks.*
- *11th Street North (Washington St – Apricot)*
 - Curb and gutter was backfilled and black dirt leveled for seeding.
 - Retaining wall built on Apricot and 11th Street
 - Gravel finished graded and manholes brought up to grade
 - American Asphalt scheduled to pave on 9/01
- *Metalco Rail Spur*

- *Finish grade staking has been completed, just need to finish grade and compact and cities portion is completed*
- *18th Ave South (Russel Street – West Grand Ave)*
 - Removed Asphalt, curb and gutter and topsoil from Essex – Chase Street
 - Installed 600' of 8" Sanitary, 15 Sanitary services and a manhole
- *8th Street South Cross Culvert Pipe*
 - Removed Existing Concrete pavement
 - Removed existing 60" round metal pipe and replaced it with 45' of new metal pipe
 - Removed exiting elliptical metal pipe and replaced it with 125' of new elliptical metal pipe
 - Installed 2- 120" manholes and mudded around the new pipes
 - Graded southbound lanes to have paved on 8/27, north bound lanes are being graded to get paved during the week of 8/30

Public works Maintenance

- String trim grass and weeds along highways
- Cut grass in City maintained properties and street Right of Way
- Saw cut asphalt patches south of East Riverview Expressway
- Maintained Zoo operations
- Sprayed weeds in medians and boulevards
- Pull weeds in landscape areas around pool, east river bank and downtown areas
- Cleaned up Graffiti under bridges
- Completed another successful season at the Aquatic Center, after hosting a new dog days event at the Aquatic Center staff began cleaning and winterizing the pools
- Replacement of outlets at Robinson Park along with monthly building checks
- Performed necessary repairs found during fire inspections
- Completed 12 grass complaints
- Performed curb and gutter removals for curb and gutter maintenance contractor
- Completed multiple catch basin rebuilds
- Installed asphalt patches throughout the City
- Removed low hanging branches in chip seal area
- Poured concrete on catch basin repairs and emergency sanitary repair
- Completed site restoration behind curb and gutter repairs and catch basin repairs
- Setup multiple traffic control zones for phasing the 8th Street culvert pipe replacement project
- Chip sealed 180,000 sq yds of city streets
- Cleanup of Township, Cook and Korey Ave. (Sealcoating streets that got rained on)
- Provided monthly Brush pickup
- Screen Westside compost, turn Westside compost

Paint and Signs

- Replaced seasonal banners in downtown area
- Painted center line on 3rd St South, Expressway Bridge, Lincoln Street, Taylor Ave, Pepper Ave, 16th Street South, 4th Ave, High Street, Wilson, 5th Ave North, Reddin Road, and Bonow Ave
- Painted intersections Crosswalks and Lane Dividers on 8th Street South
- Painted crosswalks at Grove, Assumption, and Washington Schools, 54 and Washington, 16th and Baker St
- Painted yellow curb on 25th Ave, Howe, Immanuel Lutheran, and Grove Schools
- Replaced and/or straightened damaged street and traffic signs
- Replaced work zone signs in construction projects
- Installed BMX race banners on STH 13 and STH 54
- Replaced speed limit signs on West Grand Ave

- Cleaned graffiti on STH 54 Underpass
- Painted stairs at Robinson Park band shelter
- Maintained building and sign shop property
- Removed branches from trees that were blocking signs

Shop and Repairs

- Replaced pins and bushings on garbage truck arms
- Serviced several public works fleet vehicles
- Provided or delivered police squads for warranty work
- Worked on AC issues with K9 cars and other squads
- Rebuilt rear end on ambulance
- 500 hour service on Cat skid steer
- Annual steamer inspection performed
- Prepared Thompson Pump for use on storm water bypass on culvert pipe project

Wastewater:

- Staff spent much of August working on summer projects. Things like cleaning out septage receiving tanks, cleaning out and hauling away catch basin material, rebuilding pumps, maintaining ultraviolet disinfection, and televising sewers for capital improvement plans.
- The pilot study on RAS fermentation is showing promise. The fermenter effluent ortho-phosphorus continues to climb, which means more available nutrient for the PAOs (phosphorus accumulating organisms). Further, the effluent total phosphorus levels have remained low, even with no phosphorus removal chemical being added. It is anticipated this positive trend towards full scale biological phosphorus removal continues.
- Biosolids we distributed to two local farmers in early August. These farmers hauled the biosolids on their own, saving the Utility hauling costs.
- In continued efforts to stabilize the biological process, a continued increase in MLSS (mixed liquor suspended solids) which has improved the food to microorganism ratios, and SVIs are staying below 150. These are all excellent observations.
- With the recent wet weather, collection system crews are focusing on identifying I/I sources. With the significant capacity that is used by I/I, any advances made this stand to benefit the Utility substantially.
- The internship program in coordination with the University of Wisconsin – Stevens Point has produced another excellent intern experience. The current intern has done a great job this summer, and her research project involving orthophosphate loading concentrations to our pilot fermenter has helped staff identify proper fermenter volatile solids loadings. We are proud to be partnering with UWSP to better the future of environmental protection.
- Exceptional Quality Class A biosolids are available for local residents and companies to come and take for their use as state certified commercial fertilizer!

Other DPW activities:

- Attended retirement lunch for street department employee, Mike Garski
- Met with Wood County staff and officials relating to the jail project and considerations for the vacation of Avon St right-of-way between Market and 5th St N
- Met with City Attorney, staff, and Mayor to review draft transportation utility ordinance language
- Met with Alderpersons, residents, and staff relating to some chip seal work that was damaged from a rain event
- Met with the City's legal team and Biron to discuss the Biron wastewater agreement
- Worked with staff relating to an unpermitted excavation in Grand Ave and street privilege request
- Met with water utility staff relating to the proposed capital improvement plan
- The primary focus during the month of August has been the proposed 2022-2026 public works capital improvement plan