



CSO Clean Solutions for Omaha

Quarterly Report | 2020 Q2

April–June 2020



CSO Clean Solutions for Omaha

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PROGRAM MISSION

The Program Management Team's job is to save money for ratepayers, and do what is best for the community as we meet the objectives and requirements of the Clean Water Act.

For additional information regarding the Omaha CSO Program, please visit **www.OmahaCSO.com** or call the CSO Program Hotline at 402-341-0235.

ON THE COVER: The Chlorine Contact Basin at the Missouri River Water Resource Recovery Facility (left) is completely operational during wet weather events. Completed street reconstruction for 17th Street in the Nicholas Street Sewer Separation, Phase 3A Project (right), with project completion expected in fall 2020.







Recently completed exterior sewer modifications associated with the Missouri River Water Resource Recovery Facility,
Transfer Lift Station Pump Replacement Project

Saddle Creek Retention Treatment Basin mass concrete pours will

continue through 2020 to construct basin floors, columns and walls.

2ND QUARTER HIGHLIGHTS



- Cole Creek CSO 203 Sewer Separation bid documents are nearly complete; construction bid is anticipated in Q4 2020 and construction start in O2 2021.
- Monroe Street Lift Station final design is underway, with 60% documents expected in O3 2020.
- Nicholas Street Sewer Separation,
 Phase 3B final design continues with an expected
 Q4 2020 construction bid advertisement and Q3
 2021 construction start.
- >>> Blake Street Lift Station 95% documents are under review with construction bid advertisement anticipated in Q3 2020.
- Cole Creek CSO 204 Sewer Separation, Phase 3 construction bid opening scheduled for July 2020, and construction start planned for early 2021.
- Missouri Avenue/Spring Lake Park Sewer Separation, Phase 2 additional design work was completed for the 13th Street area and construction is underway.
- The Program's **Optimization Evaluation** continues, focusing on identifying the most cost effective, beneficial approach to completing the final level of CSO control that is required. The path forward will be described in the Long Term Control Plan Update, which will be drafted by the end of the year.
- Burt-Izard Lift Station bypass pumping system will be in operation for the remainder of 2020 to allow for replacement of screens, pumps and other electrical systems. Existing electrical system and process equipment is currently being removed to make room for the new equipment.







CSO PROGRAM A DA PIS TO COVID-19 IMPACTS

Due to the COVID-19 global pandemic, the CSO Program quickly adapted workflows in all facets of project delivery. While lasting effects are unknown, the Program is poised to continue to deliver design, construction and community outreach in ways that follow health and safety guidance while keeping stakeholders and the public informed.

The City and Program Management
Team have transitioned many aspects of
the Program to a virtual environment by
using various applications to hold project
and Program meetings and to allow for
progress to be maintained. Project teams are
minimizing travel, and essential Program staff
have returned to the Program Office following
guidance and protocols to mitigate the spread

of COVID-19. In addition to protecting project teams, the Program is also finding new ways to connect with contractors, the public, as well as educators and students. We're also learning that virtual communication tools can be more effective than in-person interactions. Likely, many of these new processes will be put in place permanently to maximize efficiency and reduce program costs.

Contractor Outreach

Because so much of our interaction with the contractor community has shifted online, enhancements have been made to the Contractors' Corner on the CSO Program website. Both general contractors and small and emerging small businesses (SEBs) can now easily learn about CSO projects expected to bid in the coming months. Links are also provided so that contractors can easily access project descriptions and locations, early approximate quantities, bid dates and constructability review materials. The City of Omaha is also providing virtual options for pre-bid meetings and the Program is leveraging expanded electronic (email) notifications and mailed bid notices. Prior to COVID-19, contractors were able to participate in one-on-one constructability review meetings virtually. Additionally, materials used in those meetings are now available as part of the Contractors' Corner. These Program enhancements provide helpful, easy-to-use tools and information that support the bid process and encourages competitive bids, potentially lowering costs for ratepayers.

Project	Cole Creek CSO 204 Sewer Separation, Phase 3	Blake Street Lift Statio
Project Type	Sown Squration	Hajor Facility
Bid Advertisement (estimate)	Q2.2030	Q4 2020
Regin Construction (entimated)	Ĝ2 3030	Qt 303t
Construction Estimate	\$4-6 Hillion	\$1-514Illon
ublitional Information*	Project Wellspage	Exclect Webpage Early Operation Documentation
	CATEGORY OF WOR	к
(Sanicado/Striping	郊	弹
Bioswale/Green Infrastructure/ Rolled Erosion Control	N/A	8
Dectrical	-N/A-	0
Fencing	-N/A-	****
Hauting	(Mala	96
Annitorial	1	Par.

www.OmahaCSO.com



The CSO Program has consolidated youth outreach materials for use by teachers, parents and students wanting to learn more about our efforts to improve water quality in rivers and streams.

E-Learning Content

The CSO Program has a successful history of student engagement that regularly highlights CSO project benefits and exposes youth to potential careers related to design and construction. With schools closed, the CSO Program quickly consolidated youth outreach materials for use by teachers, parents and students wanting to learn more about our efforts to improve water quality in rivers and streams. Resources include an educational video, activity guide in English and Spanish, water usage calculator, and green infrastructure information and worksheet. Students that complete activities can even earn a CSO-branded shower timer. Educational content has also been promoted to curriculum specialists serving schools throughout the metro.

Stakeholder and Public Outreach

COVID-19 may have changed the way we work with one another, but it has not stopped work from continuing. That has resulted in creative ways to keep the community aware of important, ongoing projects. What used to be accomplished through in-person public meetings or visits with neighborhood associations, has now switched to social distance-friendly virtual platforms and tools to stay connected. The team has been using email, phone calls, video conferencing, on-demand narrated presentations and even short videos to keep neighbors and businesses informed about CSO projects as they proceed through design and construction.

All of these Program efforts are valuable, safe substitutes for in-person communications, and will be continued as long as necessary. To see the latest project information or explore E-learning opportunities please visit www.OmahaCSO.com.

Upcoming CSO construction projects are featured as part of the Contractor's Corner on the CSO website. For more information, visit www.OmahaCSO.com/contractors-corner.



Goal 1: PREGULATORY Compliance

Meet specific regulatory requirements as identified by the Environmental Protection Agency and Nebraska Department of Environmental Quality.

- Complete implementation of CSO projects within identified schedule.
- Reduce pollutant discharges to the Missouri River and Papillion Creek.



Goal 3: OOO
Community Acceptance

Maintain continuous public dialogue, provide information and pursue opportunities for multiple benefits in CSO projects.

Goal 2: Economic Affordability

Minimize cost impacts to ratepayers by completing CSO projects within or under budget.

PROGRAM MISSION

The CSO Program's mission is to save money for ratepayers, and do what is best for the community as we meet the objectives and requirements of the Clean Water Act.





Multiple packages provide more opportunities for local contractors and efficient delivery.

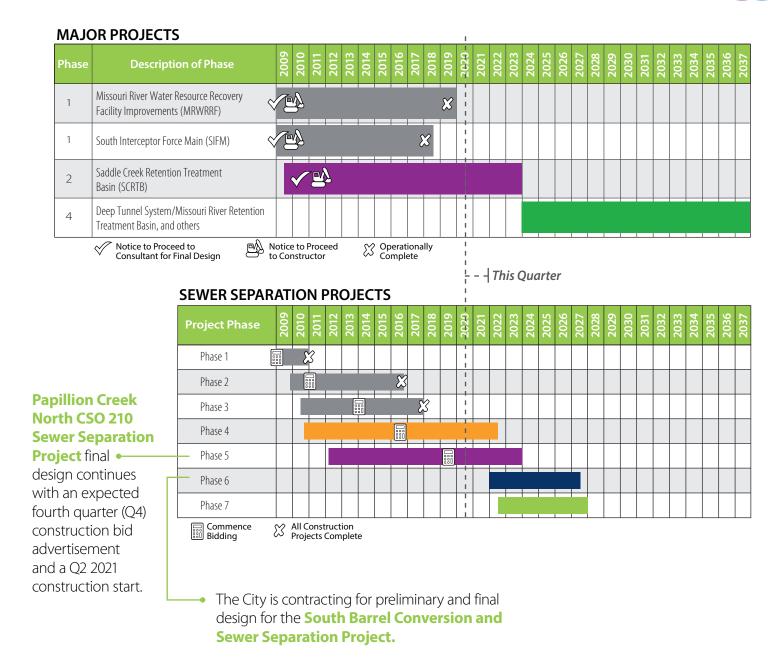


*These numbers reflect 39 Long Term Control Plan projects that were removed, combined or pooled as part of Program adaptive management.









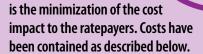
SCHEDULE: Long Term Control Plan (LTCP) project schedules are consistent with the LTCP Update, CSO Permit and associated modifications, and formal submittals to Nebraska Department of Environment and Energy (NDEE). In March 2019, the City submitted a request to modify milestone dates within the CSO Permit and LTCP as follows:

- Phase 4 Major Projects start final design from Dec. 31, 2019 to Dec. 31, 2023
- Phase 6 Sewer Separation commence bidding from June 30, 2020 to Dec. 31, 2021
- LTCP Update for NDEE from Oct. 1, 2019 to March 31, 2021

The 2021 LTCP Update submittal date will include a revised list of projects with new schedule milestones. An initial project delivery schedule that reflects the recent 10-year extension for completion of the CSO Program has been developed and will be further modified as part of the LTCP Update. Updated compliance milestones will be included in the 2021 LTCP Update and CSO Permit.



Goal 2: Economic Affordability Economic Affordability



LTCP Update Under Development

An updated Long Term Control Plan (LTCP) is currently under development and will be submitted, as required, to the Nebraska Department of Environment and Energy (NDEE) for review by March 31, 2021. NDEE approval is anticipated by October 1, 2021 when the CSO permit is renewed. The original LTCP was submitted in 2009 and updated in 2014. Preparations for this update began in January 2020. The updated plan will reflect CSO Program accomplishments since 2014 and will include updated CSO controls, reflect the ongoing optimization evaluation process the CSO Program Management Team has been implementing for more than a year. Our goal is to significantly reduce program costs while meeting regulatory requirements stated in the City's Consent Order (amended in 2018). The LTCP Update will also incorporate the 10-year deadline extension to implement the Program, provided by the Consent Order Amendment.

Goal 3: Community Acceptance

Community Acceptance

provides for continuous open dialogue

with the public along with timely and accurate project information. The Program also includes neighborhood benefits beyond the improved sewer system and water quality enhancements. CSO outreach also communicates regularly with small business contractors to help the community grow through job creation as we improve our sewer system and water quality enhancements.

Staying Connected During a Pandemic

The Spotlight article (page 2) features many of the ways that the CSO Program has adapted to the COVID-19 pandemic. Design and construction work has continued without significant interruption. This has resulted in the need for new and better ways to connect with contractors, stakeholders and the public. The Program is providing virtual meetings, prerecorded project updates and enhancements to our suite of online information. The Program's commitment to Community

Acceptance remains strong. To honor that commitment, we continue to provide information in new and better ways. One example of that is pre-recorded video project updates. Updates are featured on the Program website and links to updates are shared with neighborhoods, stakeholders and the general public in a given project area.



Instead of the usual in-person public meetings or visits with neighborhood associations, we've switched to social distancing-friendly virtual platforms and tools to stay connected.

Ratepayer Assistance

When the Long Term Control Plan was approved, a ratepayer assistance plan was developed to help low income and fixed income households with the sewer rate increases necessary to fund the Program.

Ratepayers are eligible if they receive Low Income Heat and Energy Assistance (LIHEAP) from their utility. This has kept administrative costs to a minimum and provided the maximum benefit to those who need it.

For assistance or to apply for Nebraska LIHEAP, call 402-595-1258.



\$11,591,400

from inception (May 2011) through June 2020.

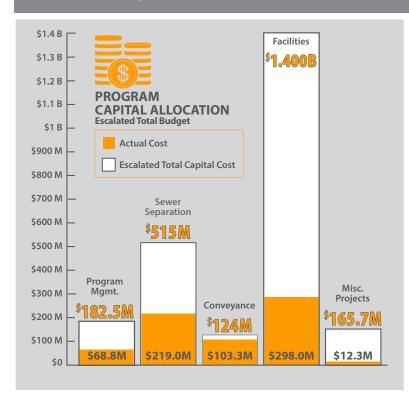


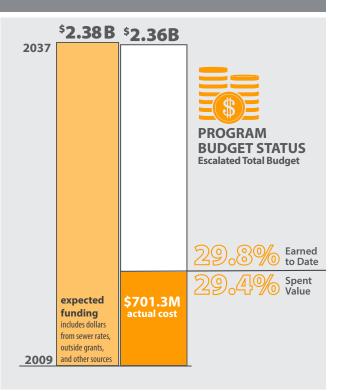


Budget Details

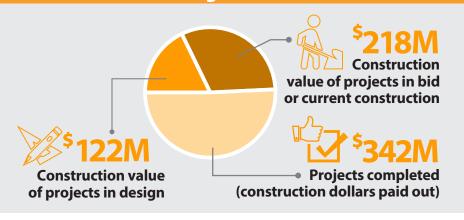
The City and Program Management Team has developed an initial project delivery schedule that reflects the ten year time extension negotiated with the Nebraska Department of Environment and Energy. The Long Term Control Plan schedule, including regulatory milestones, will be modified when an updated project list and schedule are submitted in

spring 2020. The total Program budget for the potential project delivery schedule is now at \$2.39 Billion in escalated dollars, which takes into account the estimated effect of inflation for dollars spent between now and Program completion in 2037. The values below reflect the updated total Program budget as well as the expected funding from the latest Rate Ordinance.





Estimated CSO Program Construction Costs



Approximately 448M has been paid out for construction activities through June 2020.

COMPANIES ENGAGED

During the past five years,* small and emerging small businesses (SEBs) received just over \$16M in construction contracts and subcontracts, representing nearly 16% of the total construction amount contracted through the City's CSO Program over the same period of time.

In addition, approximately \$21M in construction subcontracts went to minority and/or women owned businesses as a part of the Federal Disadvantaged Business Enterprise (DBE) program for projects that received federal funding during that same period of time.

*2015-2019





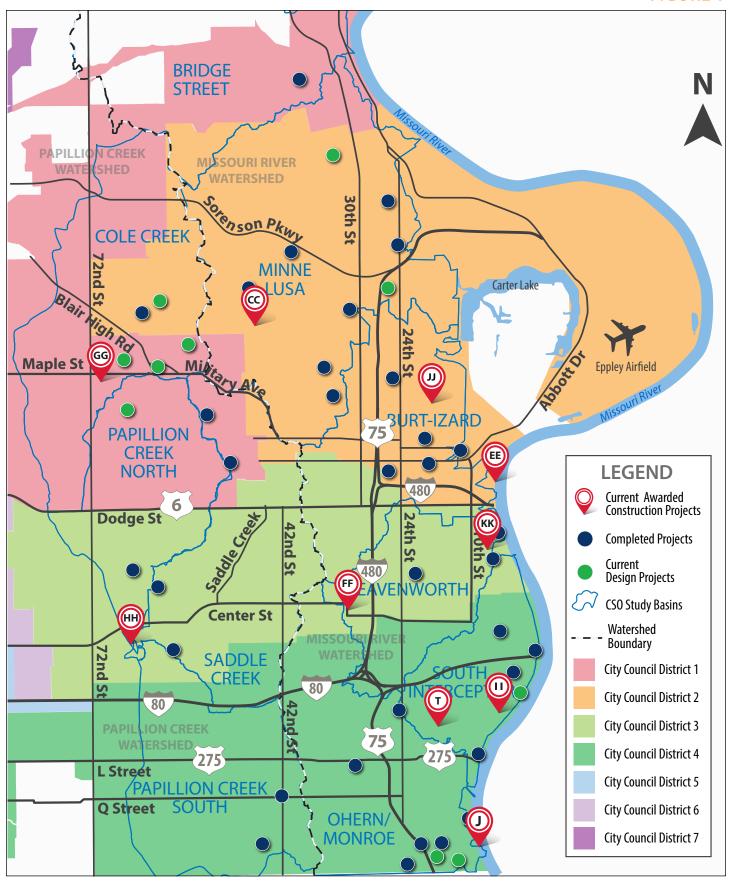


Figure 1 and the corresponding table to the right identify current and completed construction projects.



•				
CURRENT CONSTRUCTION	KEY	CONSTRUCTION CONTRACTS	CONSTRUCTION MANAGER'S CURRENT ESTIMATE AT COMPLETION REFLECTS CSO FUNDING	
	()	Missouri River Water Resource Recovery Facility (MRWRRF) – Schedule B2 (OPW 52648)	\$52,000,000 99% Complete	Operationally complete as of December 2019.
		MRWRRF – Transfer Lift Station Pump Replacement (OPW 53408)	\$5,583,000 14% Complete	Construction is underway; ——• site utility work is complete.
	T	Missouri Avenue/ Spring Lake Park Sewer Separation, Phase 2 (OPW 51997B)	\$7,078,000 97% Complete	Additional project work identified and underway; completion
	<u></u>	Lake James to Fontenelle Park Sewer Separation (OPW 52659)	\$5,453,000 97% Complete	anticipated fall 2020. Achieved substantial completion December 2019.
	(EE)	Burt-Izard Lift Station Improvements (OPW 52472)	\$14,500,000 44% Complete	By-pass pumping system operational to allow for removal and replacement of existing electrical and
	FF	Hanscom Park Green Infrastructure (OPW 52781)	\$2,205,000 99% Complete	mechanical systems. Substantially complete as of January 2020.
	<u></u>	Cole Creek CSO 202, Phase 1 (OPW 53417)	\$1,150,000 99% Complete	Substantially complete as of January 2020.
	HH	Saddle Creek Retention Treatment Basin (OPW 52049)	\$94,000,000 28% Complete	Mass concrete pours continue through 2020 to construct basin floors and walls.
		Riverview Lift Station Replacement (OPW 52402)	\$25,846,000 12% Complete	Site excavation has commenced and deep foundation systems are under construction.
	<u> </u>	Nicholas Street Sewer Separation, Phase 3A (OPW 52721)	\$1,878,000 5% Complete	Construction continues, with completion expected fall 2020.
	KK	Leavenworth Lift Station, Flood Mitigation (OPW 52783)	*3,300,000 81% Complete	Manholes and structures are nearly completed; construction substantial completion is expected



ACTIVE DESIGN PROJECT STATUS

Active projects are defined as projects that are currently in request for proposal phase, study or design (preliminary or final), or planned for construction (advertised for bid but not yet under construction). Projects will continue to be divided into multiple design/construction contracts as appropriate to efficiently complete work. Active projects and their corresponding status are listed in the following table. More information about each of the projects can be found on the Program website (*www.0mahaCS0.com*). Locations for projects that are complete or currently under construction are shown on **Figure 1**, on pages 8–9.

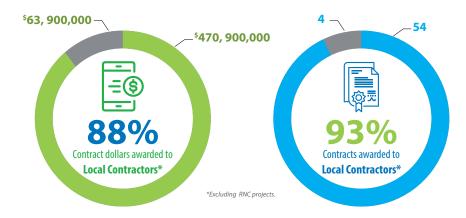
ACTIVE PROJECT STATUS OVERVIEW												
Omaha Public Works Project Number (OPW)	City Council District	Project Name	Opinion of Probable Construction Cost ¹	Issued request for proposal or Consultant Selection	Study and Preliminary Design	Final Design	Advertised for Bid or Awarded Contract	Comments				
53206	1	Cole Creek CSO 204, Phase 3	\$5–10 million (June 2017)				/	Construction bid opening scheduled for July 2020.				
52470	2	Forest Lawn Sewer Separation	\$15–20 million (April 2018)			/		Project under redesign following the original bid.				
53753	2	Nicholas Street Sewer Separation, Phase 3B	\$10–20 million (February 2020)			/		Final design continues, with a Q4 2020 construction bid advertisement anticipated.				
52814	1	Cole Creek CSO 204 Phase 2 Sewer Separation	\$10–15 million (November 2015)			/		Project on hold, pending re-evaluation.				
53059	1	Cole Creek CSO 203 Sewer Separation	\$5-10 million			/		Construction bid advertisement anticipated in Q4 2020.				
53270	4	Blake Street Lift Station ²	\$1–5 million (August 2017)			^		Construction bid advertisement anticipated in Q3 2020.				
53320	3	Papillion Creek North 210 Sewer Separation	\$1–5 million (November 2019)			/		Construction bid advertisement anticipated in Q4 2020.				
53082	4	Monroe Street Lift Station	\$20-23 million (December 2019)			/		60% documents expected in fall 2020.				
53149	4	CSO 119 South Barrel Conversion 5A & 5B	\$8–10 million		/			A path forward has been identified, contracting for preliminary and final design.				
53869	1	Cole Creek CSO 202, Phase 2	\$8-10 million		/			Contracting for final design, with construction in 2022.				

^{1—}Current Opinion of Probable Construction Cost or Construction Manager Estimate at Completion and corresponding estimate date are shown.

^{2—}Blake Street Lift Station was previously part of the Riverview Lift Station, but is being constructed as a separate construction package.

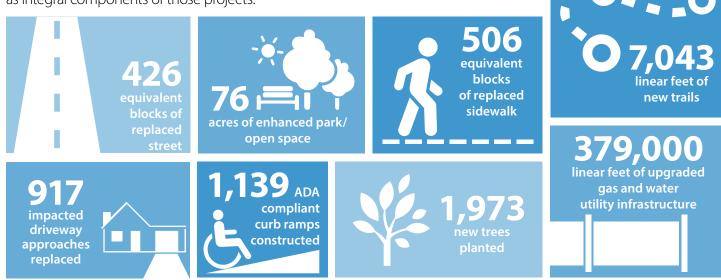
^{3—}Long Term Control Plan projects continue to be divided into multiple design/construction projects as appropriate to complete work.

VALUE OF AWARDED CONSTRUCTION CONTRACTS



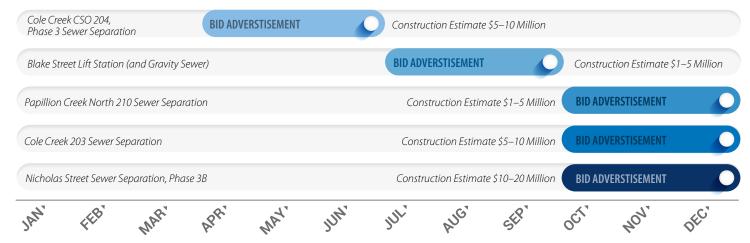
ADDITIONAL PUBLIC BENEFITS

In addition to the new storm and sanctuary of sewer pipe constructed and/or rehabilitated, Program projects included the reconstruction of adjacent infrastructure as integral components of those projects.



Includes 29 completed or underway projects as of fourth quarter, 2019, since the inception of the Program.

UPCOMING BID OPPORTUNITIES



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PROGRAM MANAGEMENT OVERVIEW AND ACTIVITIES

The responsibility of the Program Management Team (PMT) is to evaluate Program regulatory milestone progress and guide multiple projects toward compliance by providing a consistent framework for design and construction. PMT success is gauged by achieving Program goals and regulatory milestones at the lowest cost to ratepayers. PMT responsibilities include:

- Maintain and update tools and process development for Program and project delivery.
- Obtain and maintain regulatory and environmental compliance.
- Maintain and update public participation including a public website (www.0mahaCSO.com).
- Facilitate stakeholder education and outreach.
- Identify construction enhancement opportunities that provide added community benefits.
- Promote green infrastructure and sustainability goals.
- Adapt the Long Term Control Plan (LTCP) to changing conditions.
- Seek opportunities to reduce costs.
- Schedule oversight and tracking.

Recurring Program Quarterly Activities

- Meet with Nebraska Department of Environment and Energy and Environmental Protection Agency Region VII to discuss LTCP implementation status and project details.
- Provide outreach to OPPD, M.U.D. and other utility companies to discuss the Program and project coordination and minimize costs and disruptions to ratepayers.
- Work closely with City of Omaha Right-of-Way and General Services Departments to coordinate property and easement acquisitions, bid advertisement, contracting processes and schedules.
- Coordinate, oversee and monitor project progress to confirm projects are completed within scope, schedule and budget as much as possible.
- Proactively identify issues that could impact the on-time delivery of phased regulatory milestones.

- Perform inspections of construction sites to confirm compliance with all permits and approvals.
- Assist construction managers with understanding environmental requirements to confirm compliance.
- Review and coordinate permits.
- Develop and refine plans, protocols, procedures, standards, quidance documents and workflows.
- Track and coordinate schedule of metro area projects with Nebraska Department of Transportation, M.U.D., City of Omaha, Council Bluffs Interstate System Improvement Program, University of Nebraska Medical Center, Omaha Public Schools, University of Nebraska Omaha and the Omaha Airport Authority.
- Monitor construction costs and trends in the Omaha construction market.



LONG TERM CONTROL PLAN PROJECTS SCHEDULE

The Long Term Control Plan (LTCP) project schedules shown below are consistent with the LTCP Update, CSO Permit (including permit modifications), and other formal communications to Nebraska Department of Environment and Energy (NDEE). An update to the LTCP is required to be submitted to NDEE by March 2021 for their review and approval. This LTCP update will include a revised list of projects with new milestones.

Schedules of Long Term Control Plan Projects By Basin*																		
Missouri River Watershed Projects	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
MINNE LUSA (ML) BASIN																		
ML 105-15 Forest Lawn Separation																		
BURT-IZARD (BI) BASIN																		
BI Basin 108-3; Nicholas St Phase 3 Sewer Separation																		
BI Basin 108-3; Webster/Nicholas Phase 2 Sewer Separation																		
BI Basin 108-3; 18th & Seward Sewer Separation																		
OHERN-MONROE (OM) BASIN																		
OM 119-5A; South Barrel Conversion																		
OM 119-5B; South Barrel Conversion																		
CSO 119 Monroe Basin Storage Facility																		
CSO 118 Ohern Basin Storage Facility																		
SOUTH INTERCEPTOR (SI) BASIN																		
SI Basin CSO 117; Missouri Avenue Phase 2 Sewer Separation																		
SI Basin CSO 110; Pierce Street Sewer Separation																		
SI Basin CSO 111; Hickory Street Sewer Separation																		
DEEP TUNNEL SYSTEM (DTS)																	·	
CSO Deep Tunnel Lift Station & Force Main																		
CSO Deep Tunnel and Drop Shafts																		
CSO Deep Tunnel Conveyance to Drop Shafts																		
CTS Grit Basin Facilities																		
MRWRRF Retention Treatment Basin																		
Leavenworth Jones Street to Leavenworth Diversion																		
Papillion Creek Watershed Projects	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
COLE CREEK (CC) BASIN																		
CC CSO 204 Phase 3 Sewer Separation																		
CC CSO 204 Phase 4 Sewer Separation																		
CC CSO 204 Phase 2 Sewer Separation																		
CC CSO 204 Phase 5 — Inflow Reduction																		
CC CSO Cole Creek Diversions (204)																		
CC CSO 204 Storage																		
CC CSO 203-1 Sewer Separation																		
CC CSO 202 Phase 1 Sewer Separation																		
CC CSO 202 Phase 2 Sewer Separation																		
PAPILLION CREEK NORTH (PCN) BASIN																		
PCN 210-1; Sewer Separation																		
PCN 210-2; Inflow Reduction Project																		
PCN 211-2; Inflow Reduction Project																		
PCN 212-1; Sewer Separation																		
SADDLE CREEK BASIN																		
Saddle Creek Retention Treatment Basin																		

^{*}For the tunnel, storage tasks and RTB, the start date is the start of final design. For all others, the start is bid advertisement.









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