Saddle Creek Retention Treatment Basin

Construction Public Meeting

May 7, 2019

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Meeting Agenda

- Welcome
- Background on Sewer Systems
- CSO Program Summary
- Saddle Creek RTB Project Overview
- What to Expect during Construction
- Q&A

Introductions and Roles

City of Omaha

Program Management Team (PMT)

Wade Trim Team

Hawkins Construction Co.

Omaha's Sewer System

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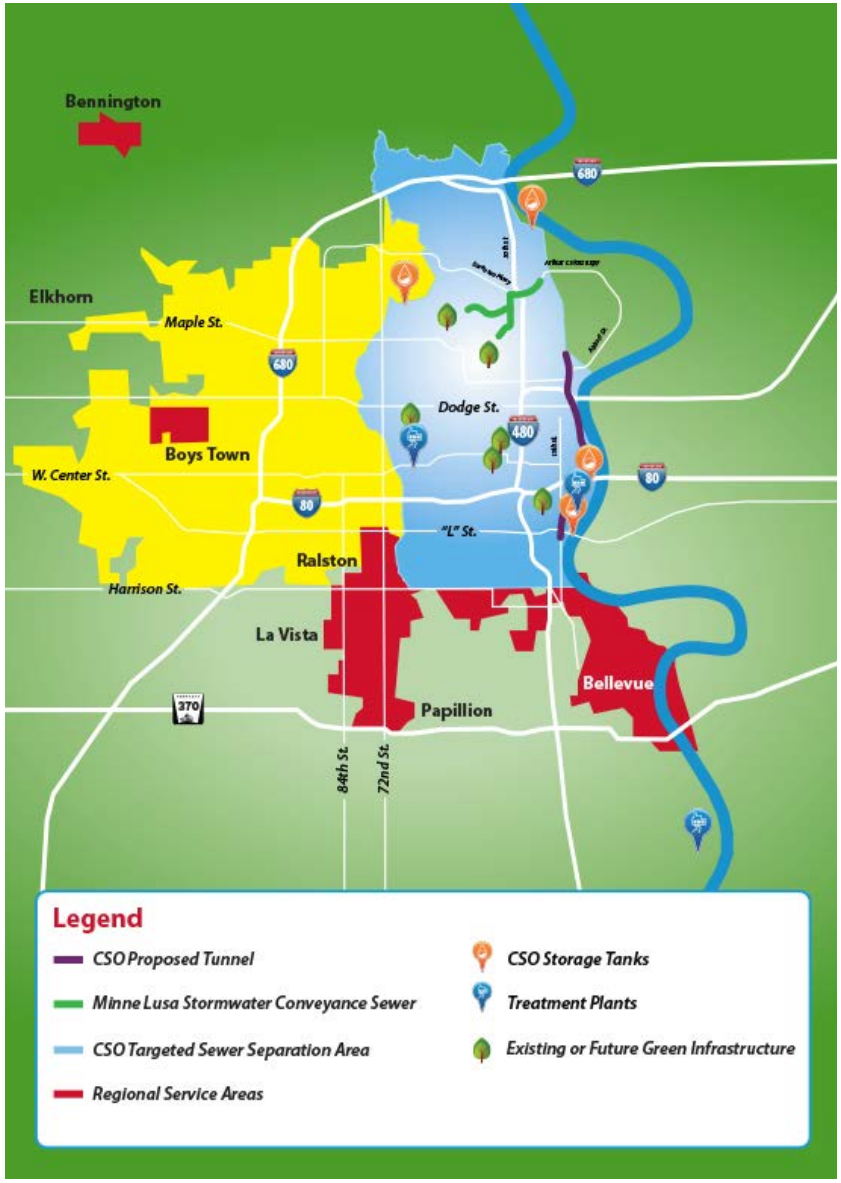
Regional Service Area

- Two regional treatment plants
- 10 wholesale users
- 275 sq. mile drainage area
- 600,000 service population



Omaha Sewer System

- 1,950 miles of sewers
- 43 sq. mile combined sewer area
  - 6,200 sq. blocks
- 28 CSO outfalls
  - 9 to Papillion Creek
  - 19 to Missouri River
  - 4 deactivated

CSO Program Summary

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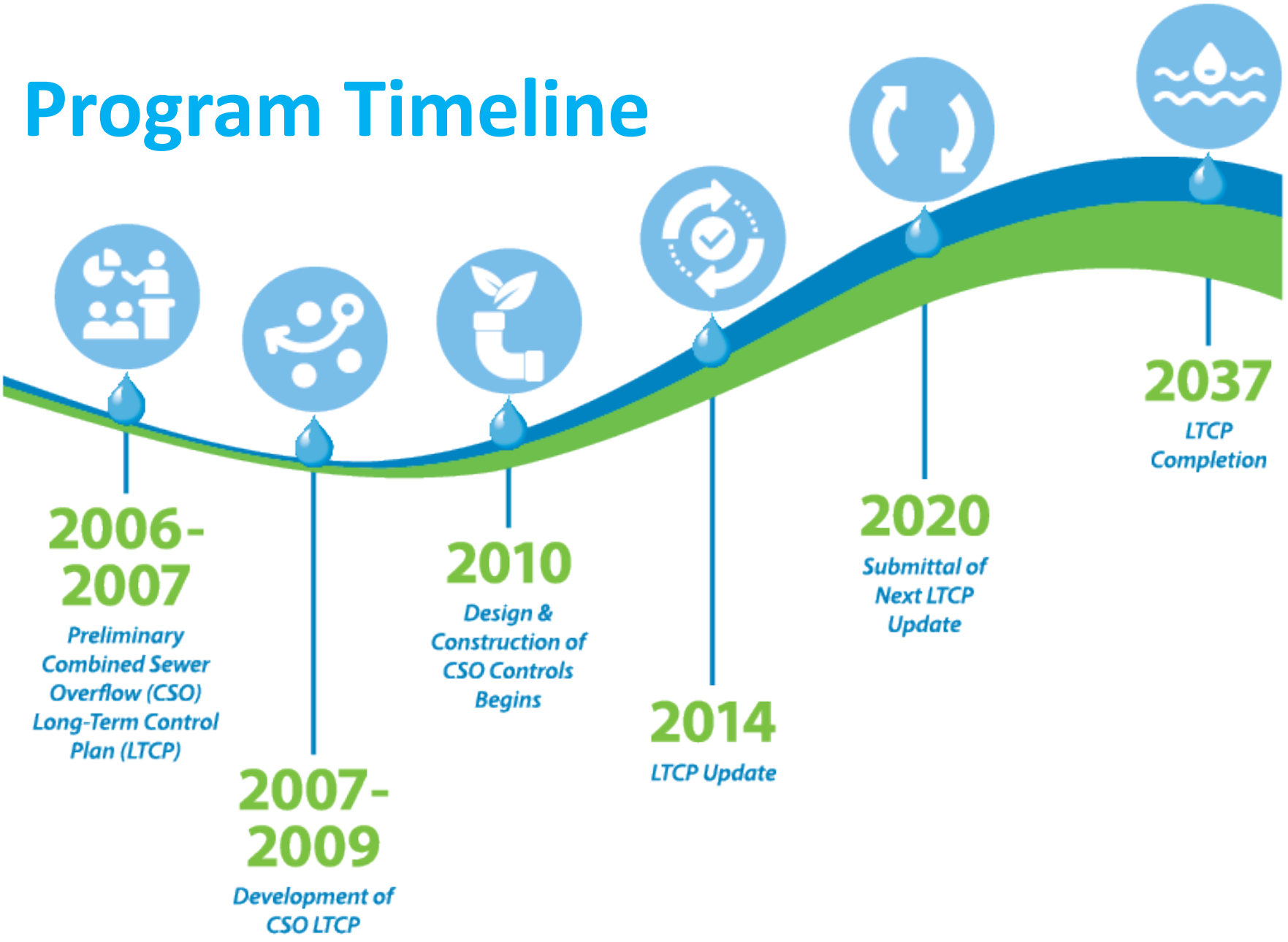
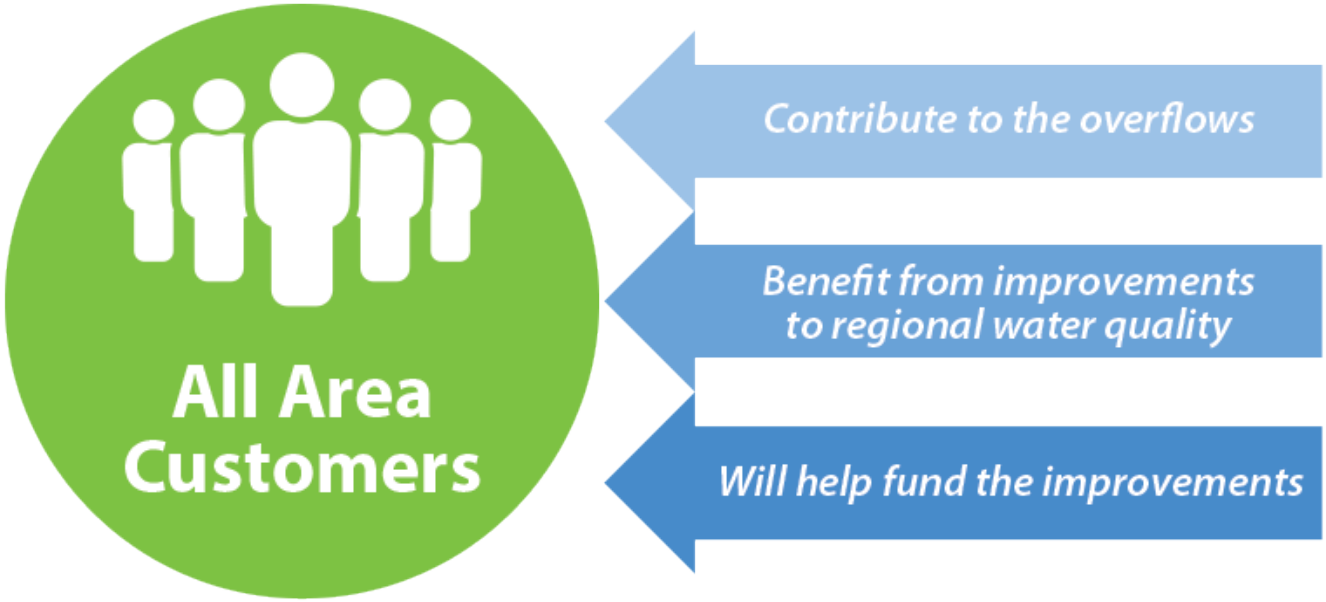
CSO Program Goals

The Omaha CSO Program is responsible for improving water quality in area rivers and streams by reducing combined sewage overflows. This is an unfunded federal mandate with three elements—**regulatory compliance, economic affordability,** and **community acceptance.**

Program Timeline



Funding the Program



Financed with 30-year bonds

Funded with sewer fees

CSO Projects

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Long Term Control Plan (LTCP)

- Approved in 2010; updated in 2015
- Five major elements:
  - Green Solutions
  - Targeted Sewer Separation
  - Deep Conveyance Tunnel
  - Underground Storage Tanks
  - High Rate Treatment Plants

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A total of 59 projects, including five system reliability projects, are outlined in the Long Term Control Plan and recent updates to the Program.

Major Completed Projects

- Aksarben Village Neighborhood Sewer Separation
- Leavenworth Lift Station Replacement
- Missouri River Water Resource Recovery Facility Improvements (Schedule A & B1)
- Missouri Avenue Sewer Separation Phase 1/Spring Lake Park
- South Omaha Industrial Area Force Main & Gravity Sewer Project
- South Omaha Industrial Area Lift Station
- South Omaha Industrial Area Sewer Separation

Projects Underway

- Burt-Izard Lift Station Improvements
- Cole Creek Sewer Separation (CSO 202, 203 & 204)
- Hanscom Park Green Infrastructure
- Lake James to Fontenelle Lagoon Improvements
- Lake James to Fontenelle Sewer Separation
- Missouri River Water Resource Recovery Facility Improvements (Schedule B2)
- Saddle Creek Retention Treatment Basin
- South Interceptor Force Main

Completed Green Infrastructure Sites

Bohemian Cemetery

Elmwood Park

Adams Park

Spring Lake Park

Fontenelle Lagoon

Project Overview
Saddle Creek RTB

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Purpose of the Project

Treat and reduce the volume of combined stormwater and sewage entering the Little Papillion Creek

Project Goals

- Improve water quality and meet EPA requirements
- Reduce odors
- Minimize disruption to businesses and residents

Project Overview

- Overflows occur on average between 50 and 60 days in most years
- As little as 0.10th inch of rain can cause an overflow

Project History

- Original Design: 2011-2015
  - Aug. 2015 – One Bid over 30% over budget
- Early Soils Removal: Jan. – June, 2016
- Value Engineering: 2015-2017
  - Reduced Basin Volume
  - Extended Schedule
  - Procurement Adjustments

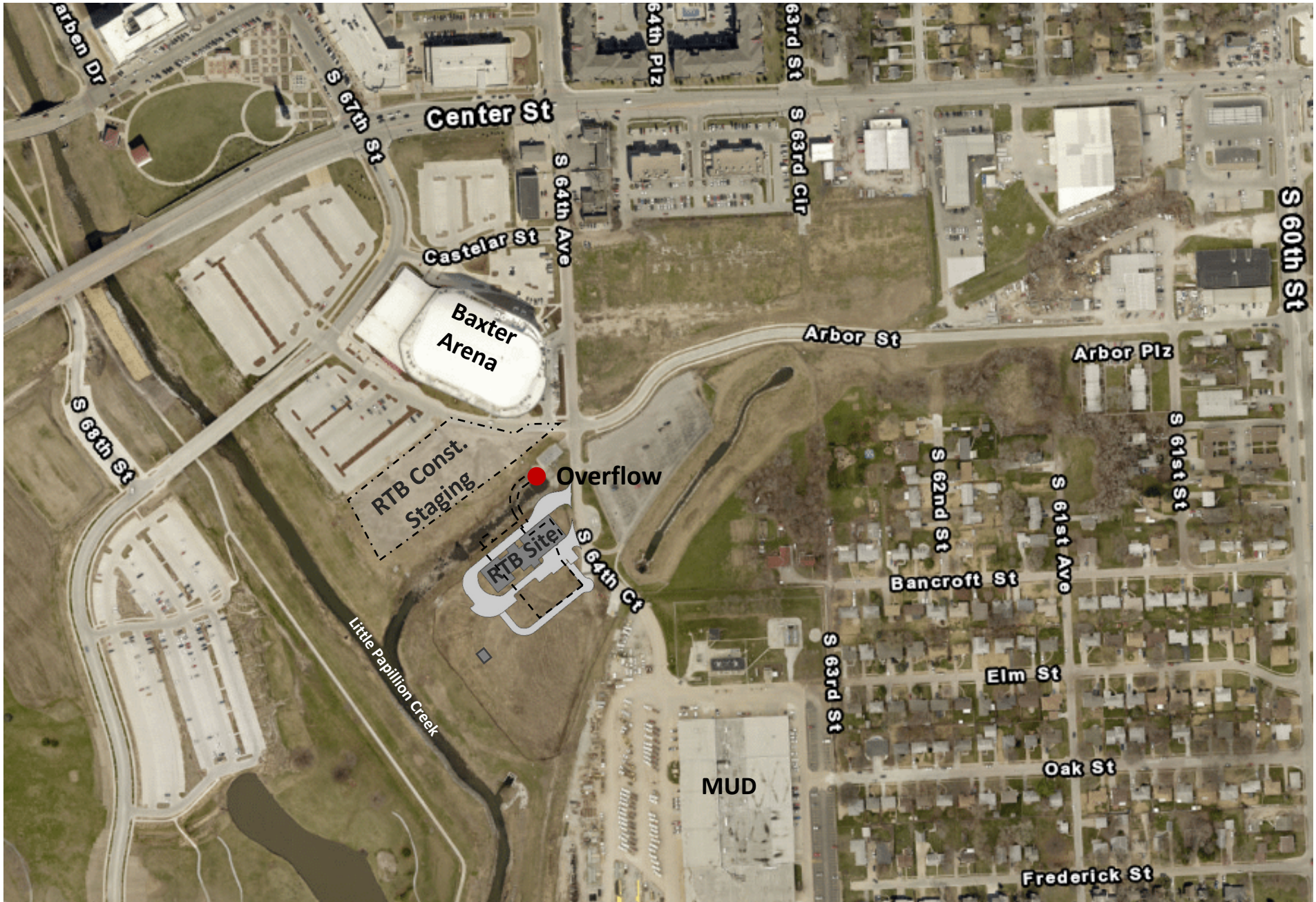
Project History (Cont.)

- Re-Design: 2017-2018
- Outreach
  - Contractor Outreach
  - Prequalifications
  - DBE Outreach
- Bid: Dec. 2018
  - Bid Cost $39M less than 2015 bid
- Construction: May 2019 – June 2023

Saddle Creek RTB Funding

Funds for the Project will come from EPA Water Infrastructure Finance and Innovation Act (WIFIA) and Clean Water State Revolving Funds (SRF), as well as City of Omaha Sewer Revenue Fund.

Site Map


Center St
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S 63rd St
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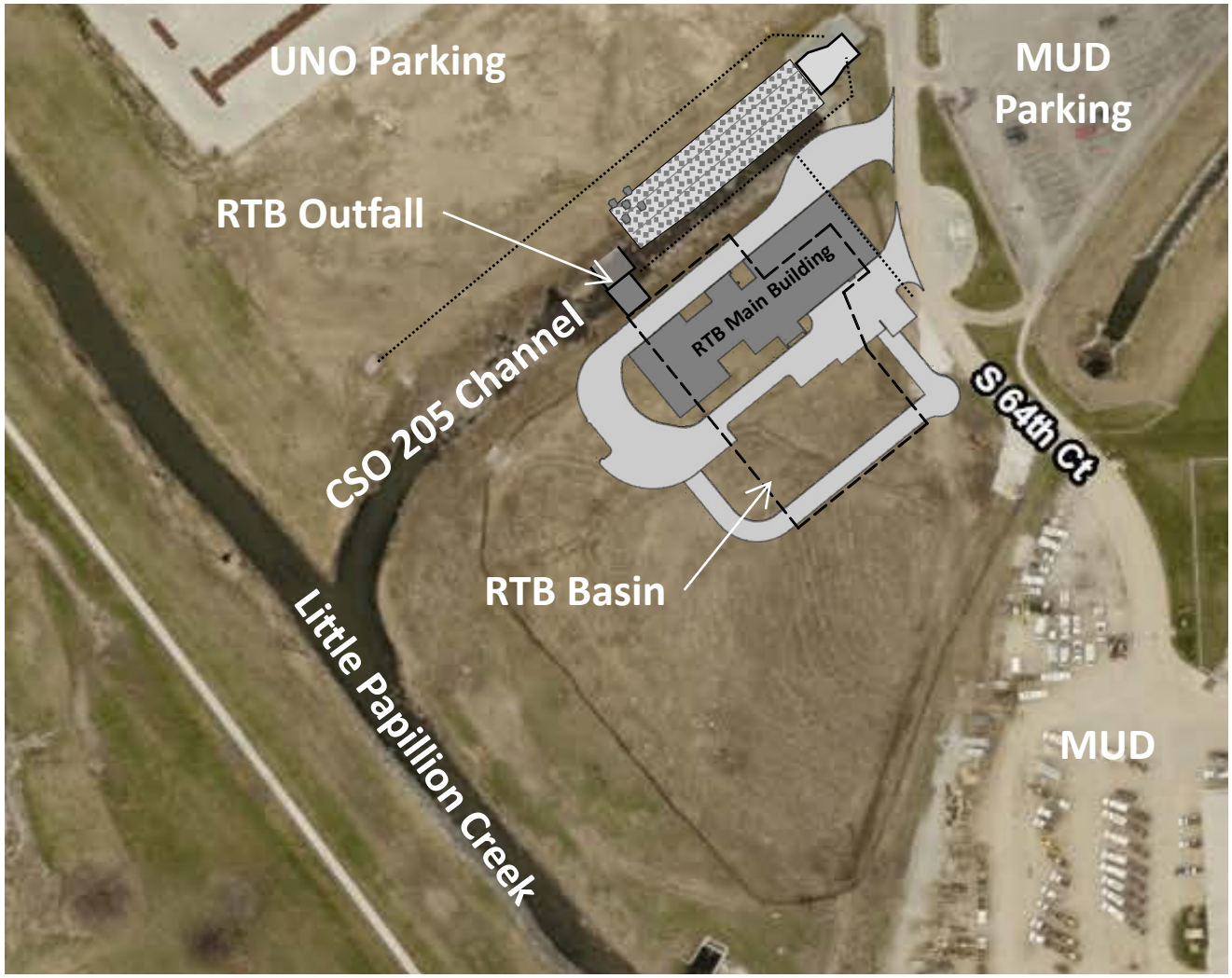
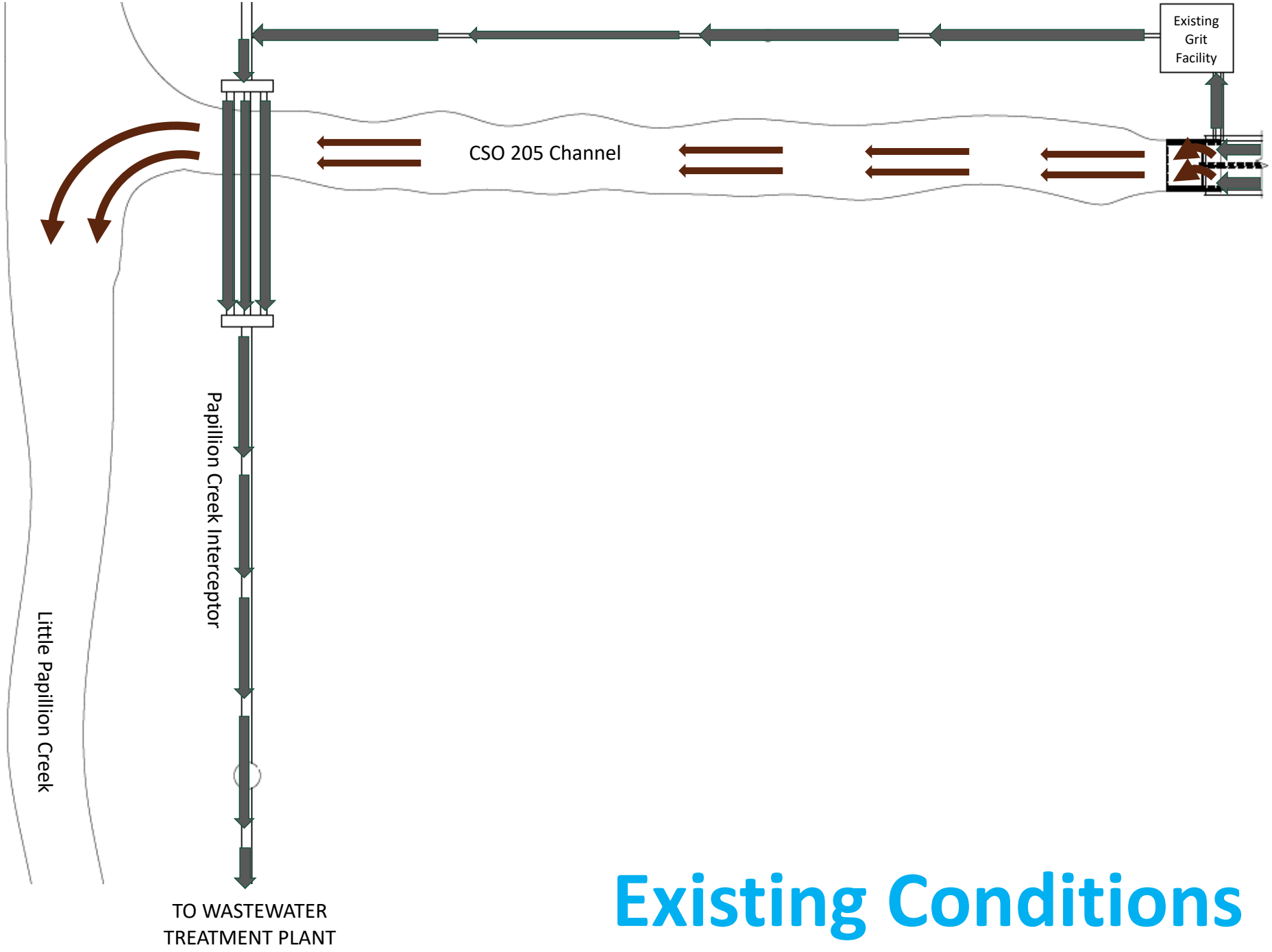
S 60th St
Castelar St
Baxter Arena
Arbor St
Arbor Plz
S 68th St
RTB Const. Staging
Overflow
RTB Site
S 64th Ct
S 62nd St
S 61st Ave
S 61st St
Bancroft St
Little Papillion Creek
S 63rd St
Elm St
MUD
Oak St
Frederick St

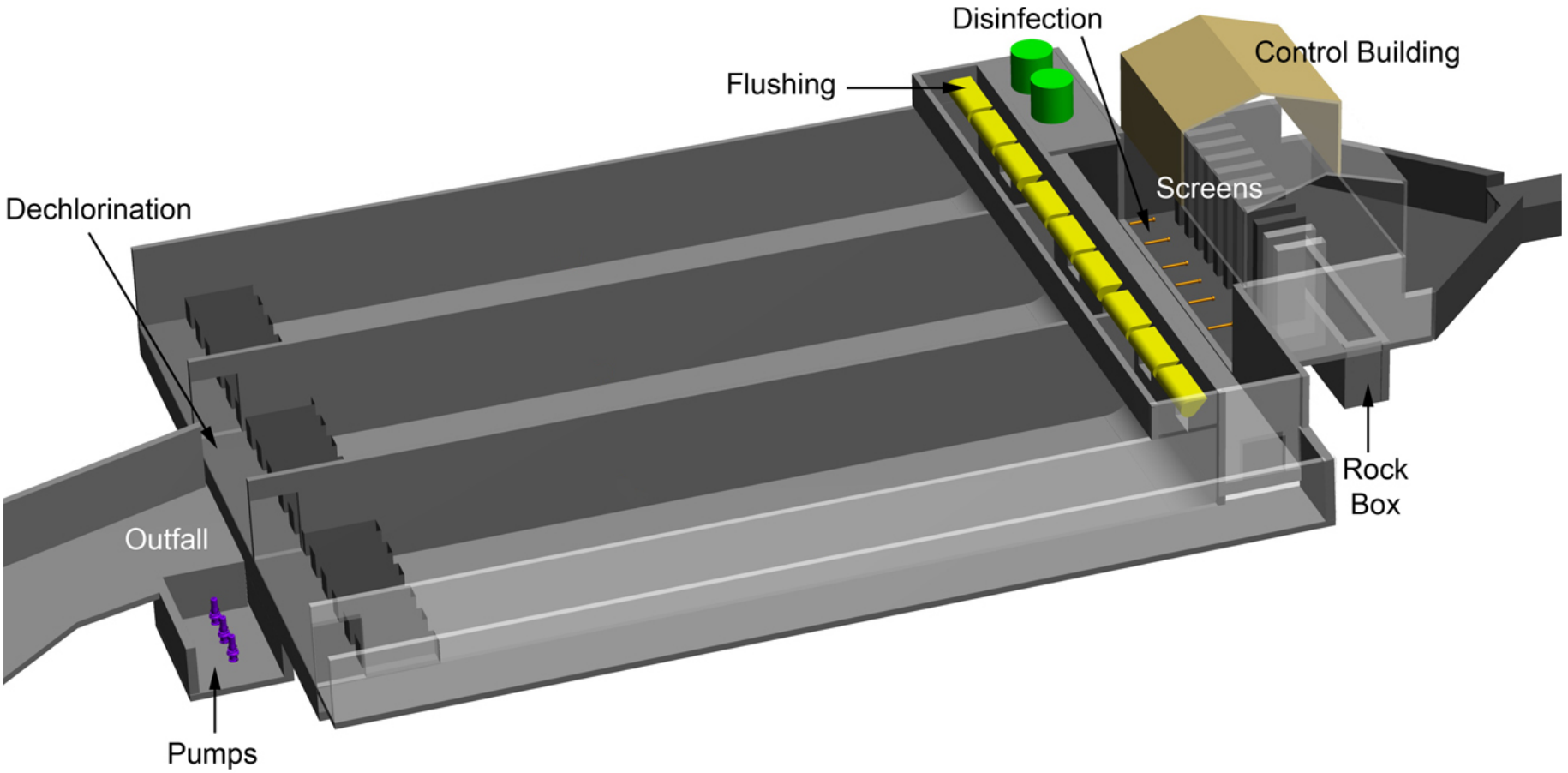
Proposed Site Plan

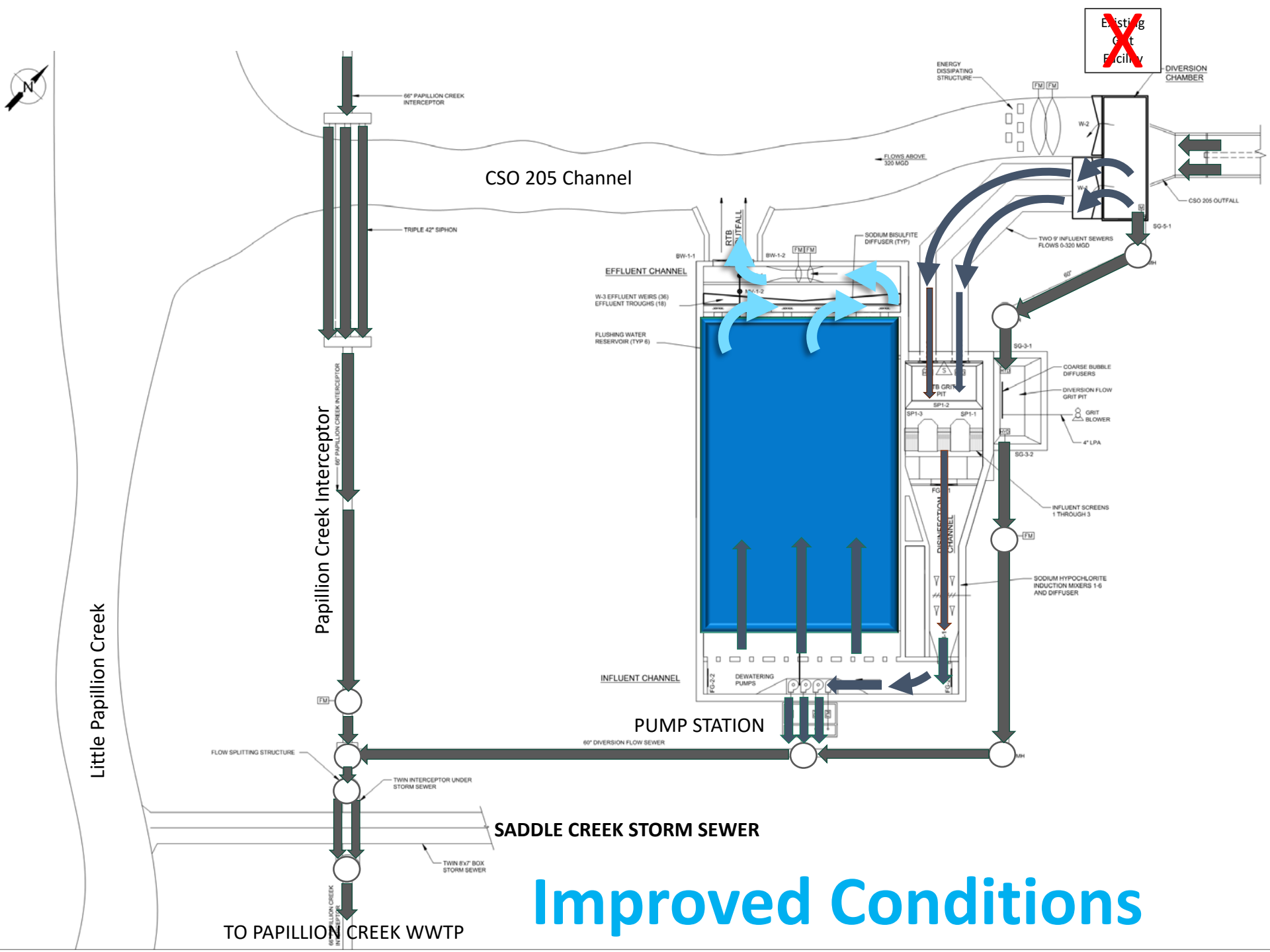




Existing Conditions

What is an RTB?

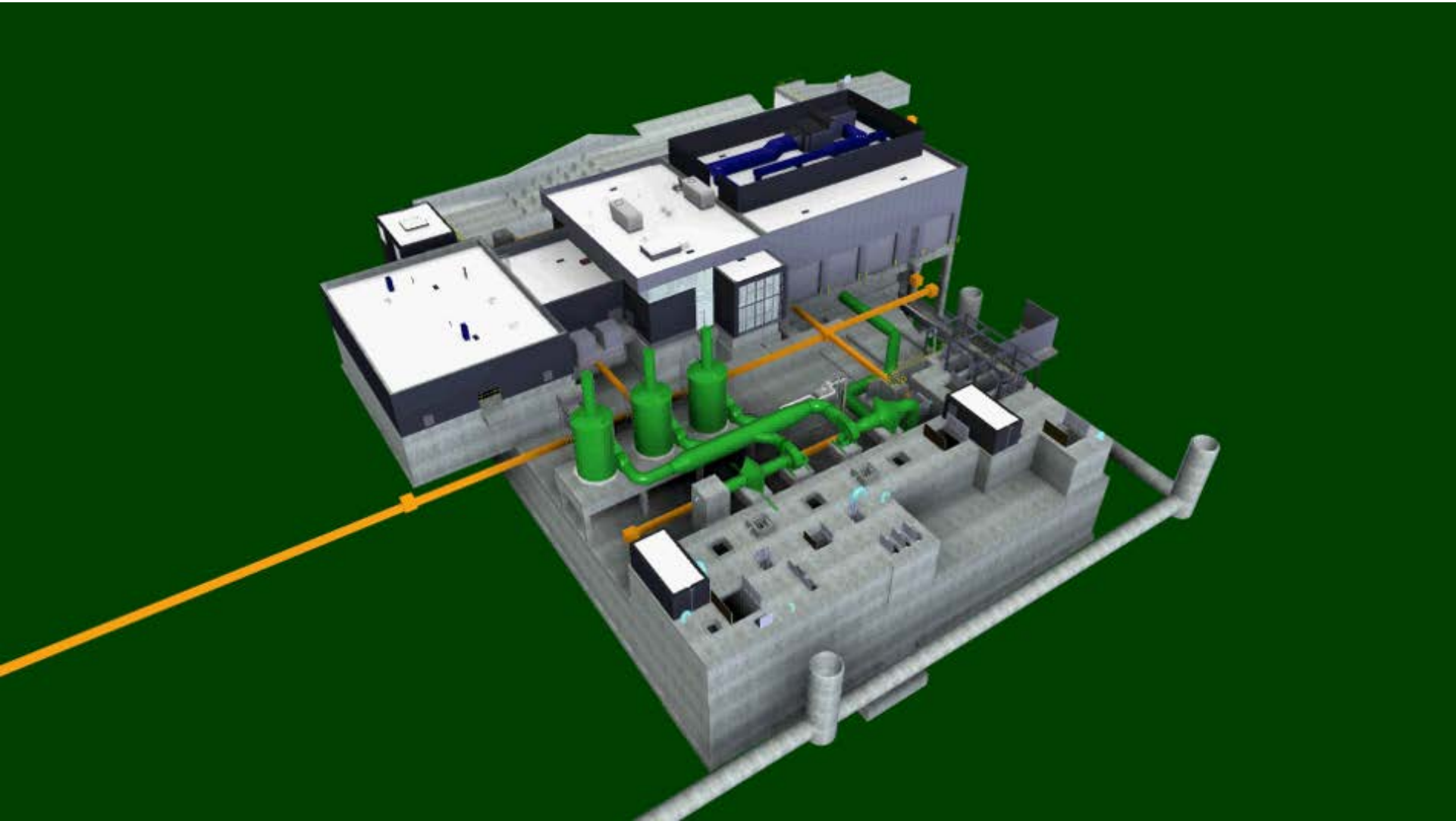




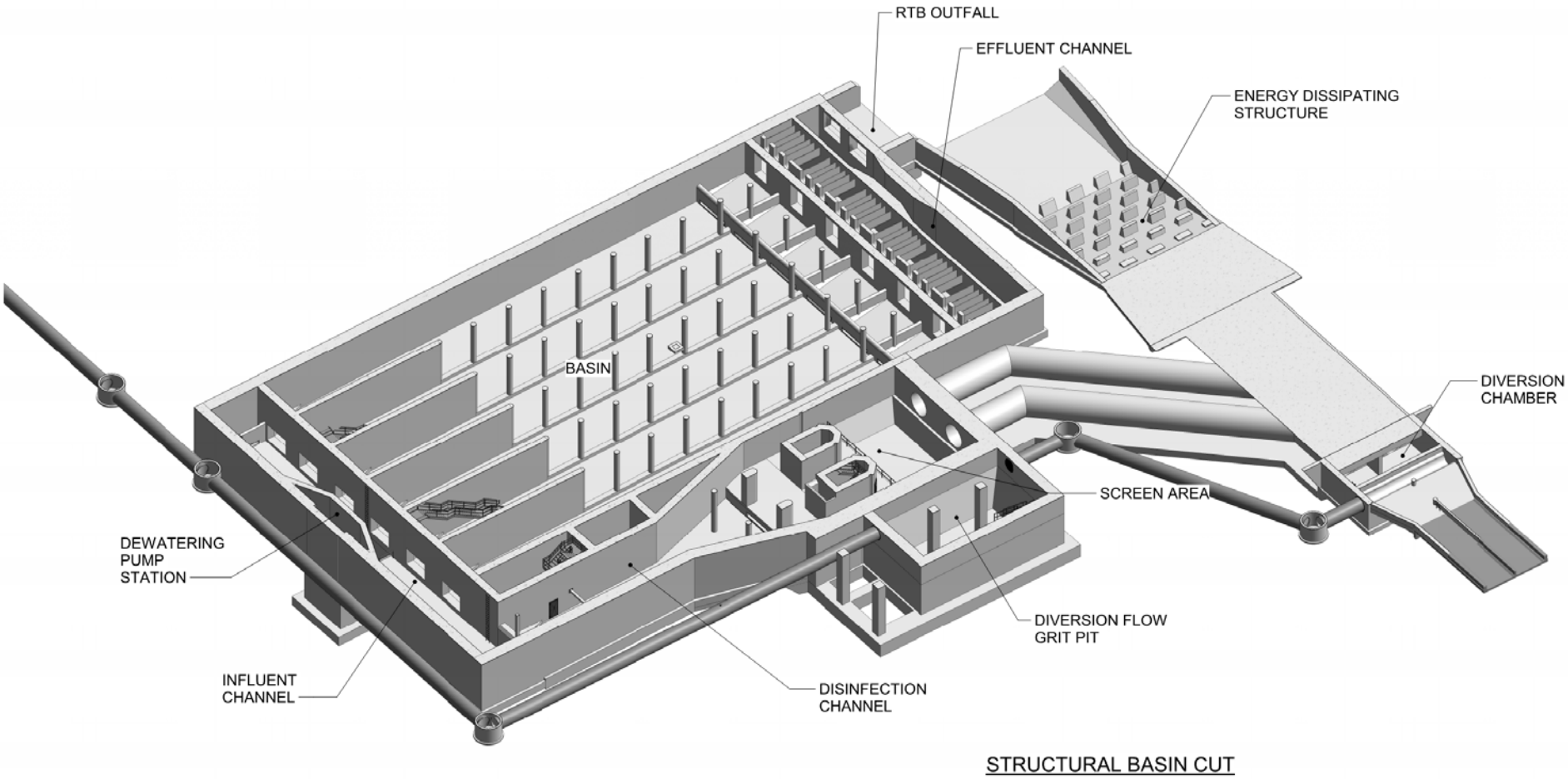
Improved Conditions

Facility Fly Over

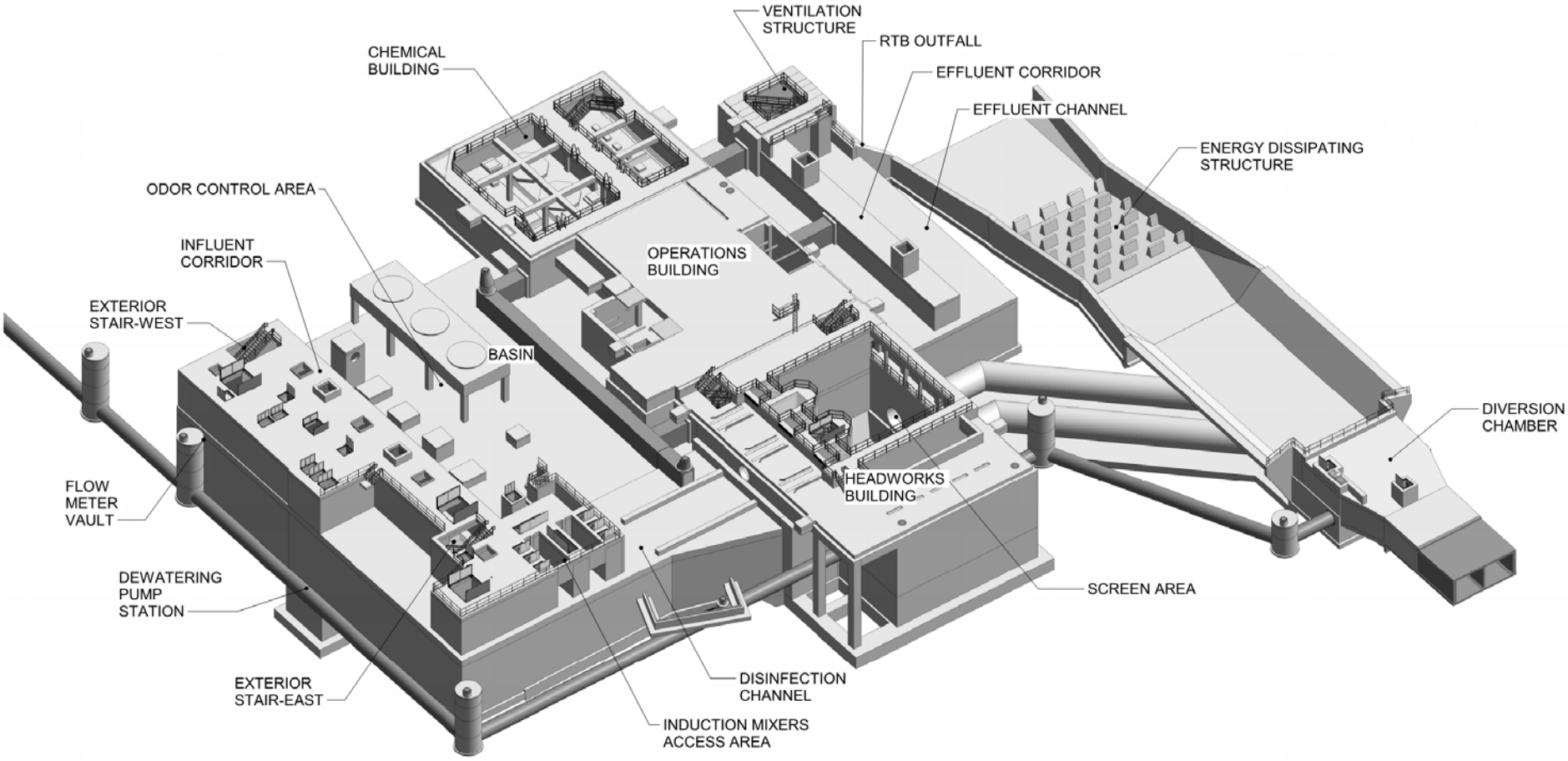
Facility Walk Through



Underground Tank Compartments

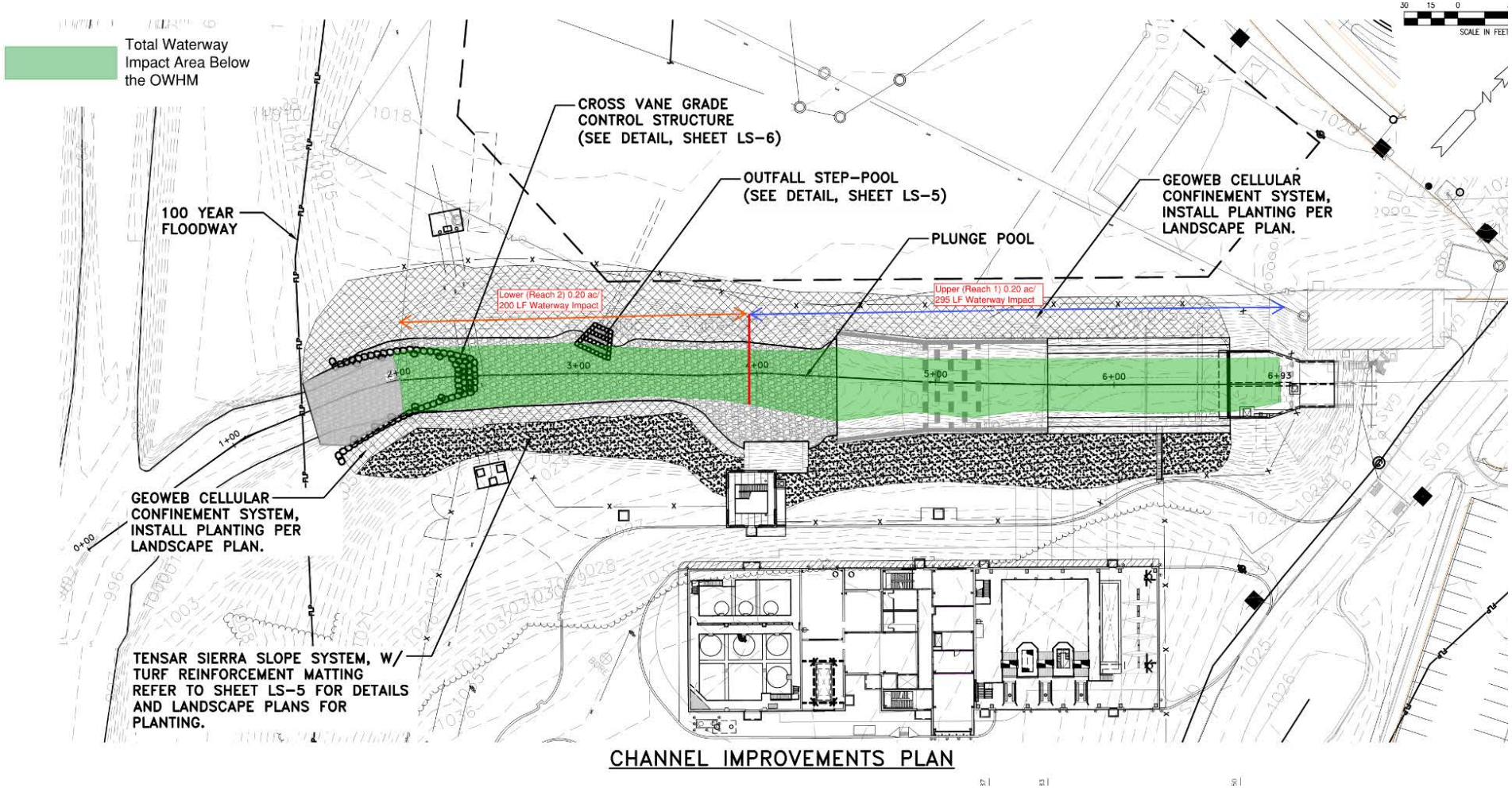


Above Ground Facility Compartments



STRUCTURAL AERIAL

Outfall & Channel Improvements



CHANNEL IMPROVEMENTS PLAN

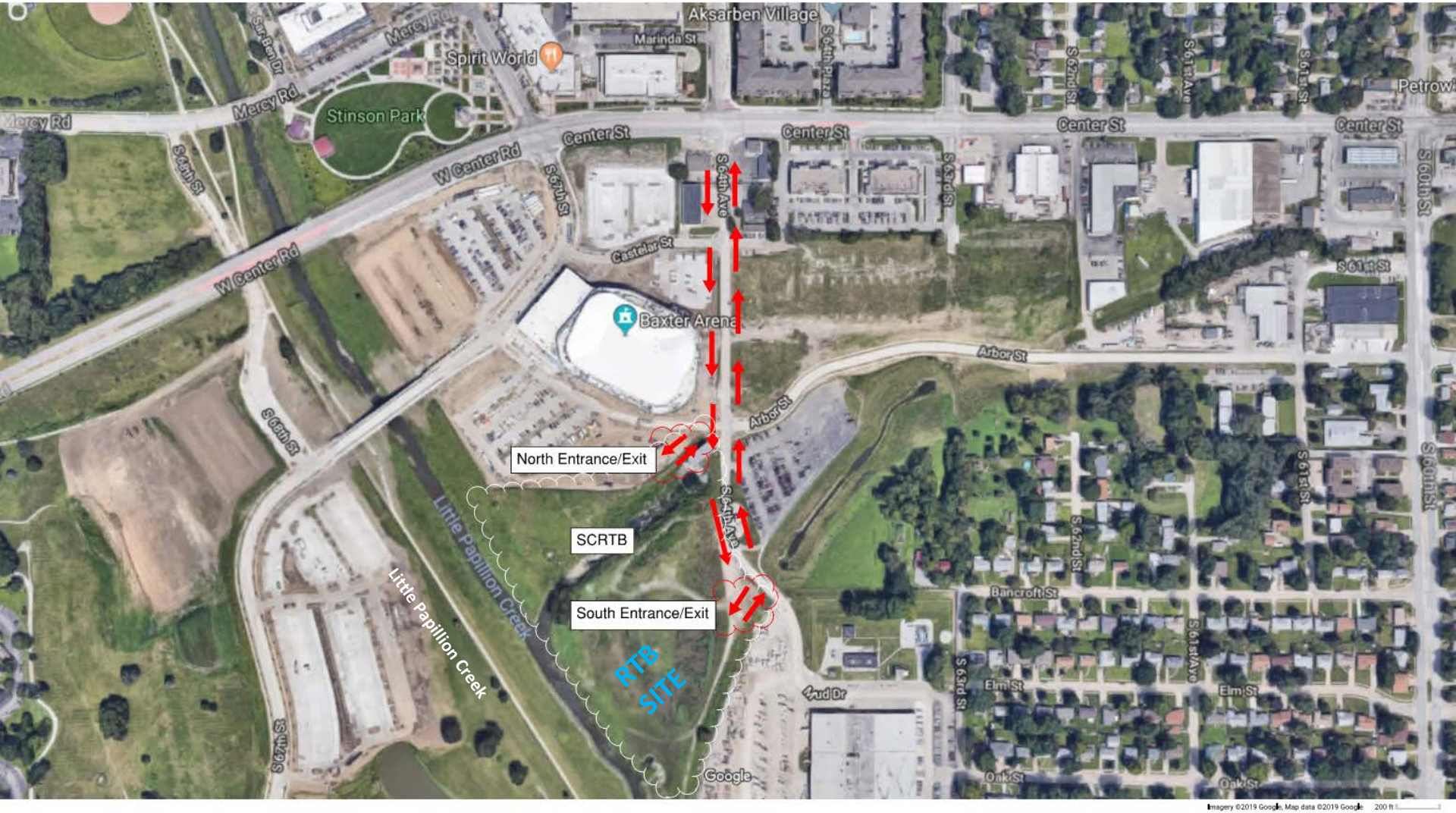
RTB Construction Elements

- Site Preparation
- Erosion/Dust Control
- Excavation, Hauling, and Disposal
- Deep Foundation
- Concrete Placement
- Building Construction
- Channel Improvements
- Final Restoration

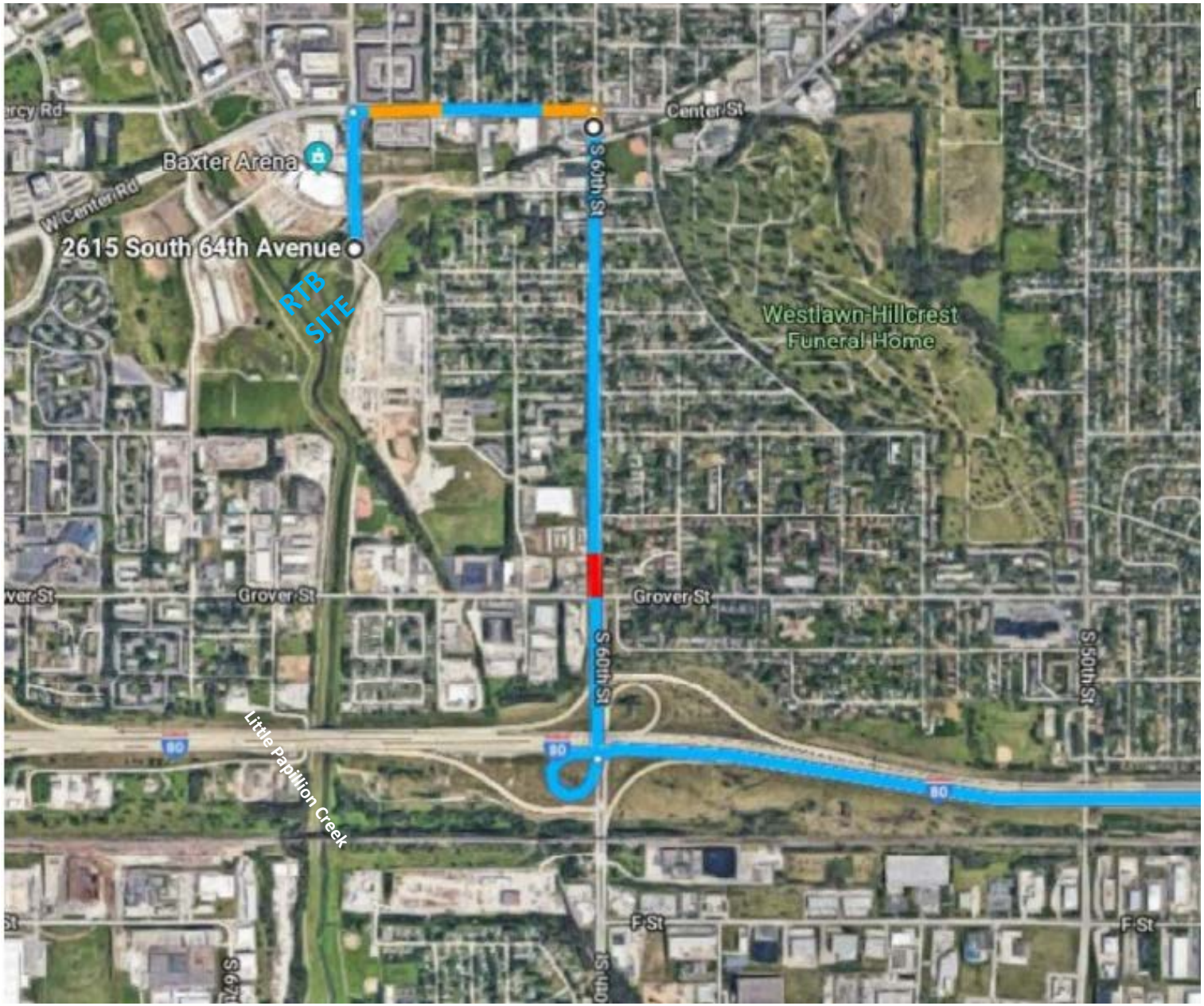
What to Expect During Construction?

- Dust
- Noise
- Vibration
- Workers and Equipment
- Detours

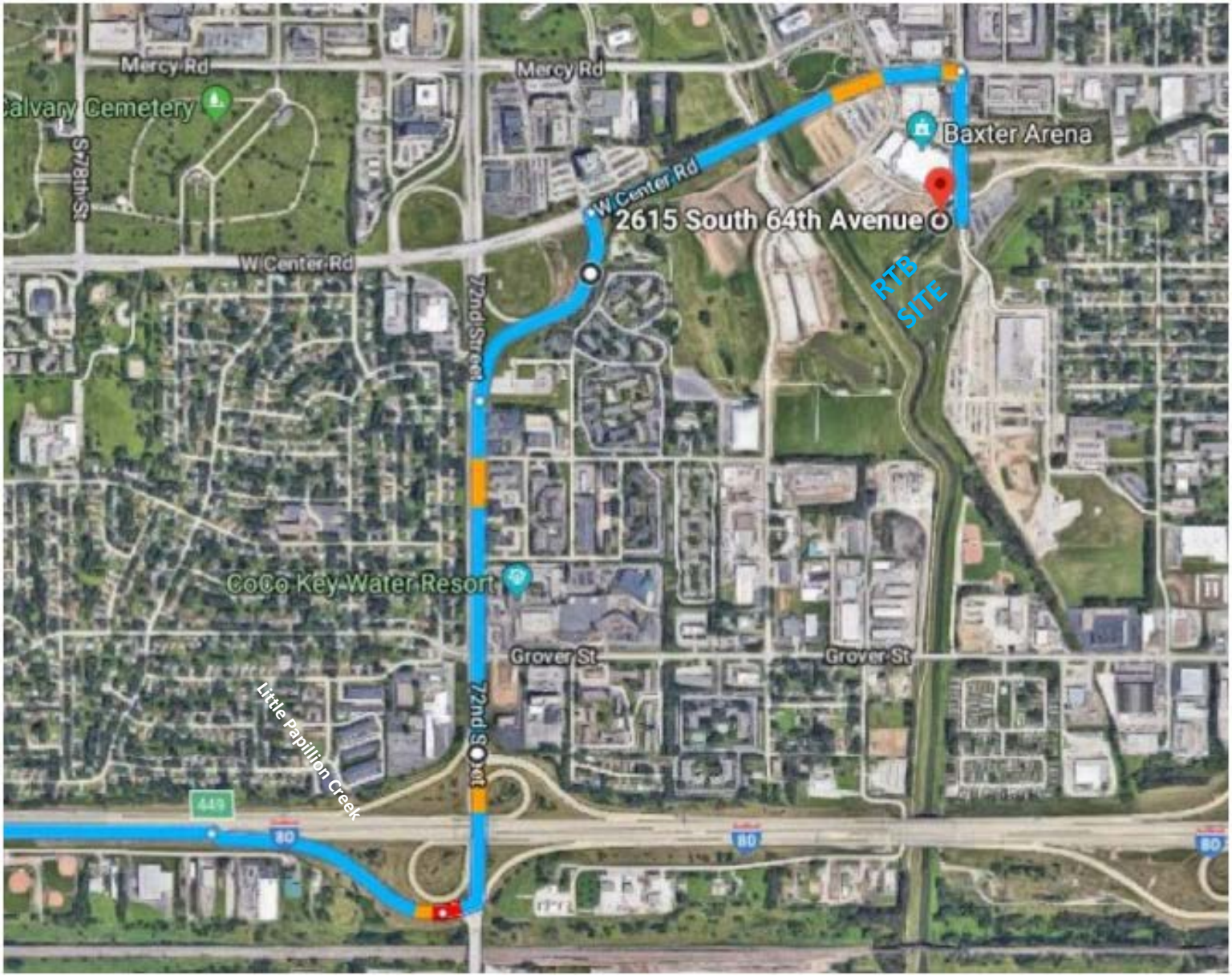
Site North and South Entrances



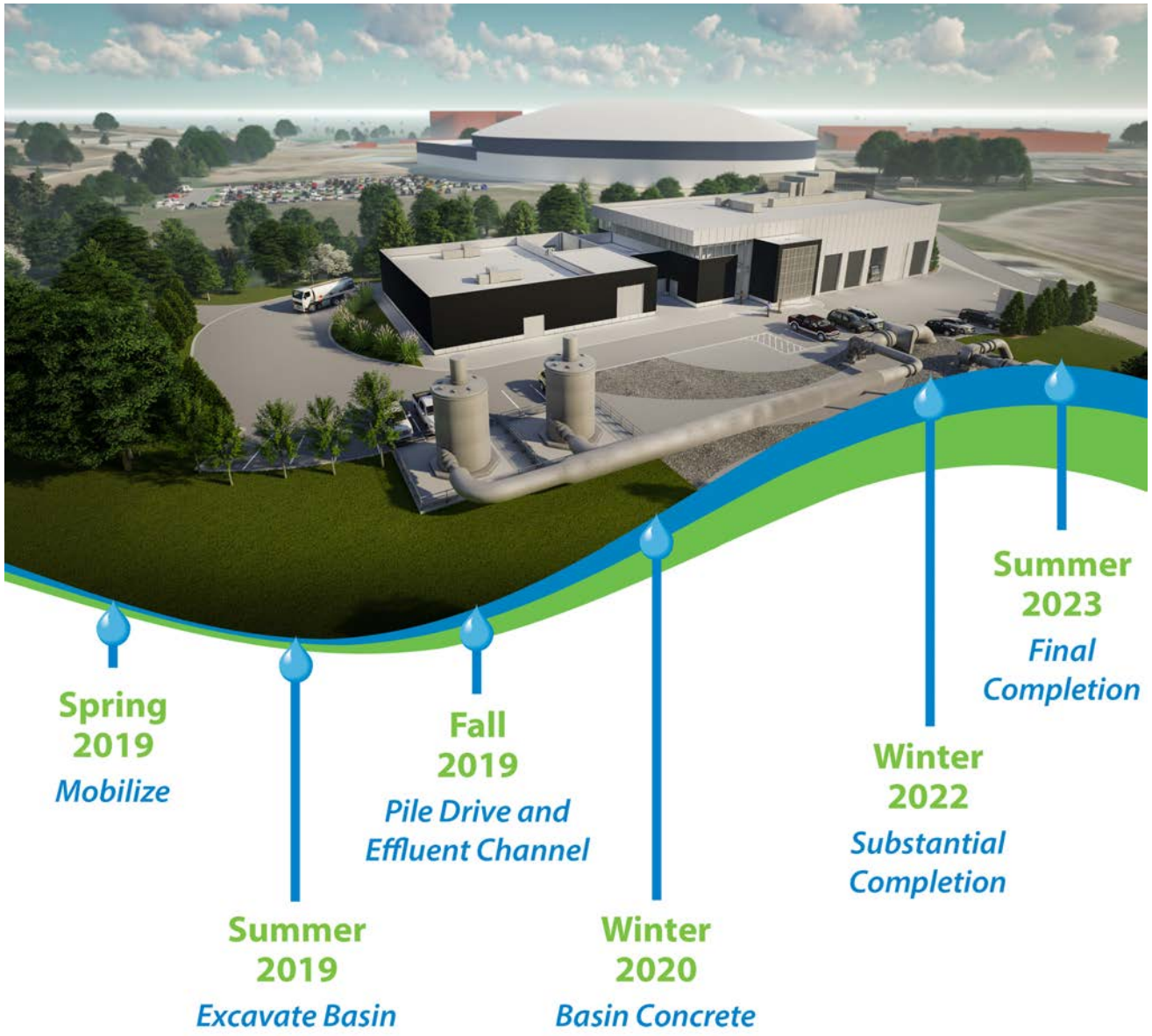
Haul Route – 60th Street



Haul Route – 72nd Street



RTB Project Schedule



Overall Facility View

View from UNO Arena Parking Lot

Who Do I Call If I Have a Concern?

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Chris Grojean (Hawkins Construction) cgrojean@hawkins1.com

(402) 231-7811 (O)

For More Information

Project Website

http://www.omahacso.com/projects/saddlecreekrtb/

Contact

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Questions?

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