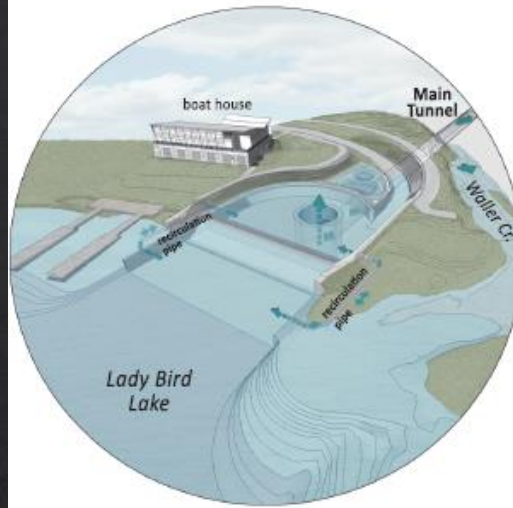


Waller Creek LGC

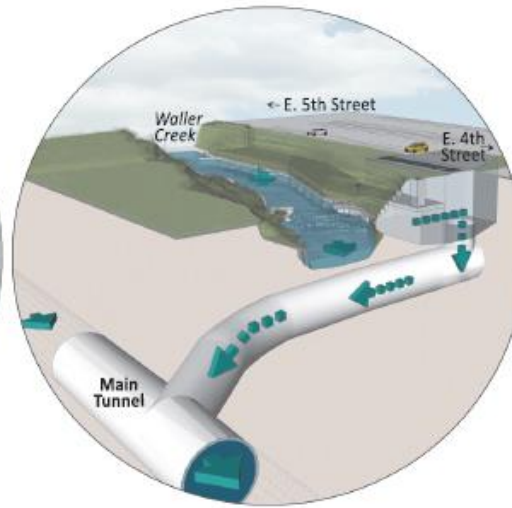
May 12, 2021

Waller Creek Tunnel Operations and Maintenance Update

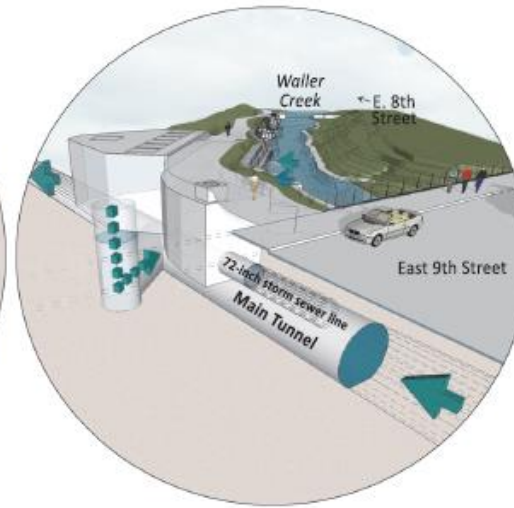
Waller Creek Tunnel Project



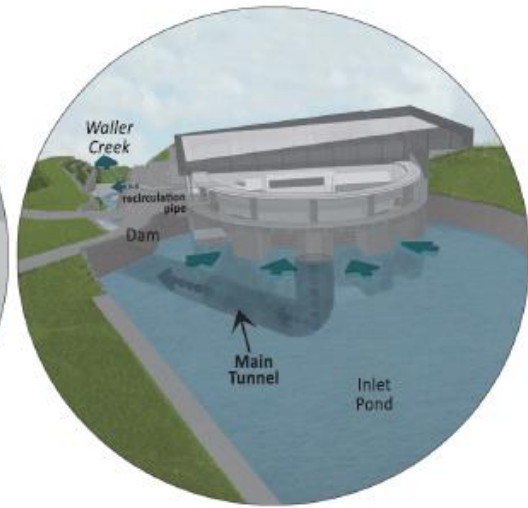
**OUTLET AT
LADY BIRD LAKE**



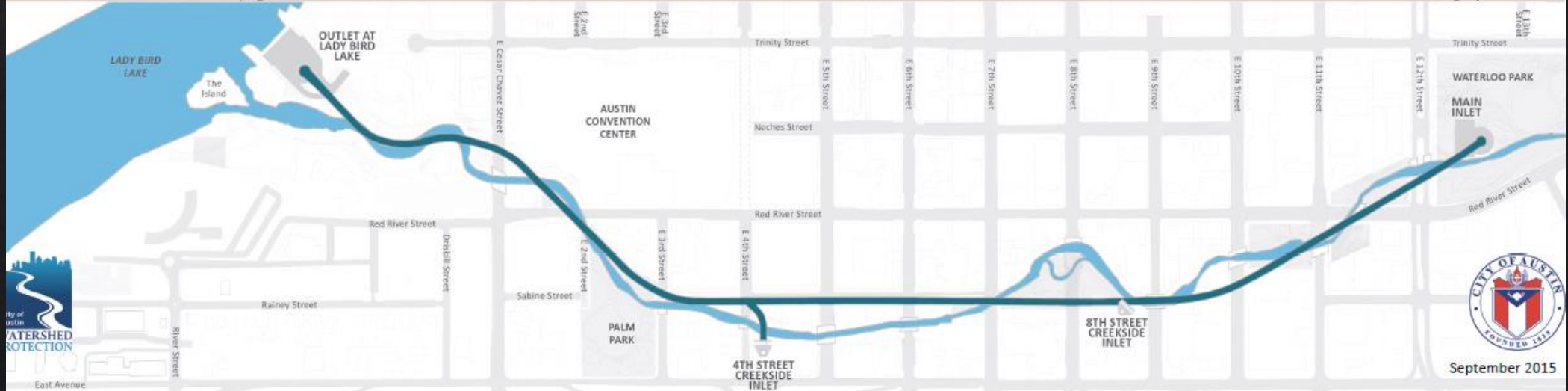
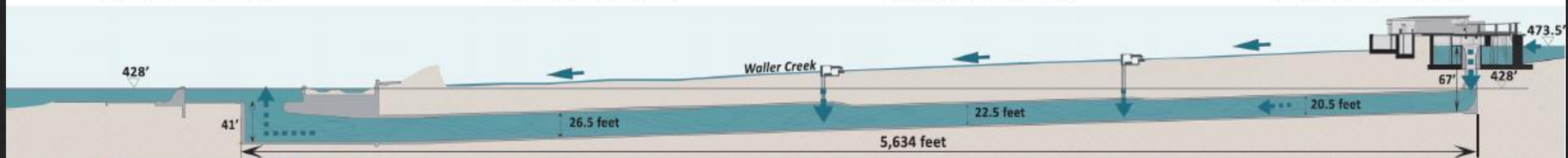
**4TH STREET
CREEKSIDE INLET**



**8TH STREET
CREEKSIDE INLET**



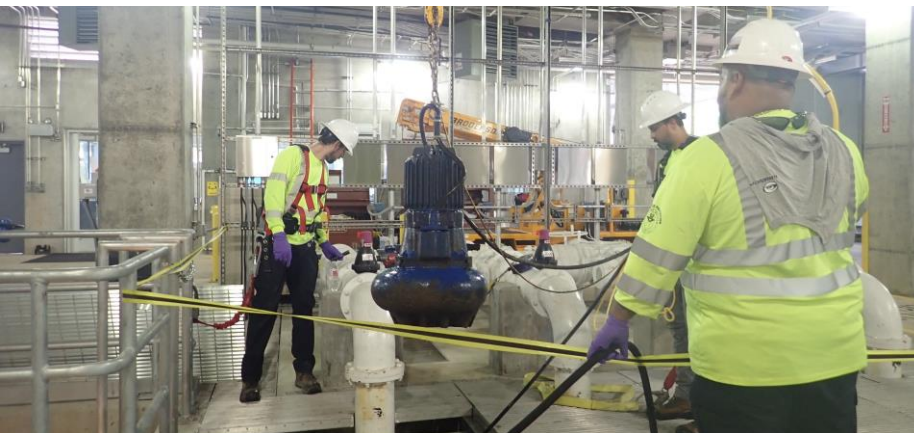
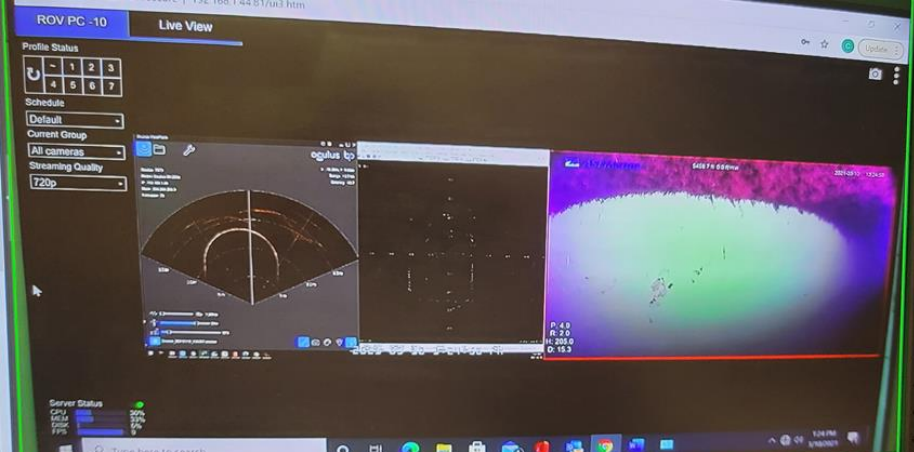
**MAIN INLET AT
WATERLOO PARK**



Operational History

- ◇ First Storm May 5, 2015
- ◇ Diverted over 160 storms
- ◇ Removed more than 13,000 tons of debris
- ◇ 5/3/19 Event -180 Million Gallons diverted



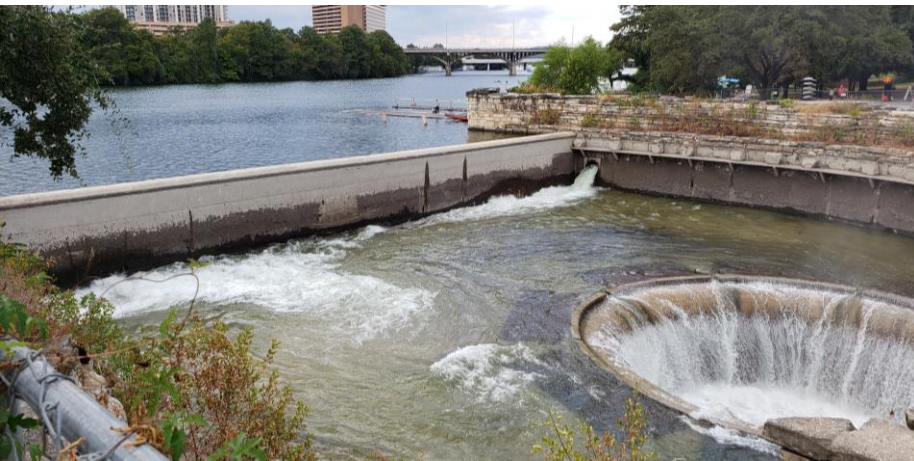


Maintenance - Adaptive Management Philosophy

- ◇ One of a Kind System
- ◇ General O & M
- ◇ Capital Projects

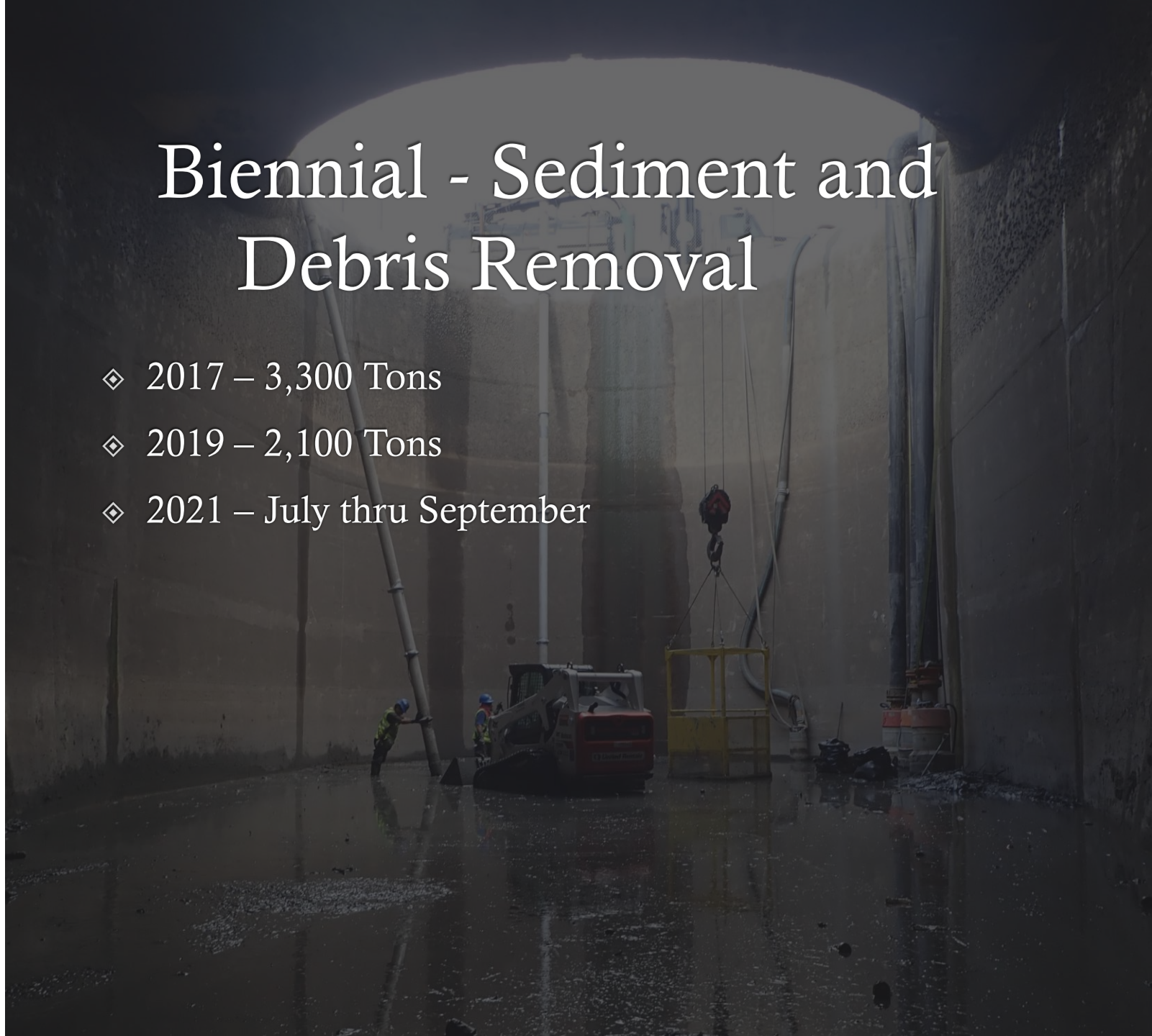


Inlet Pond

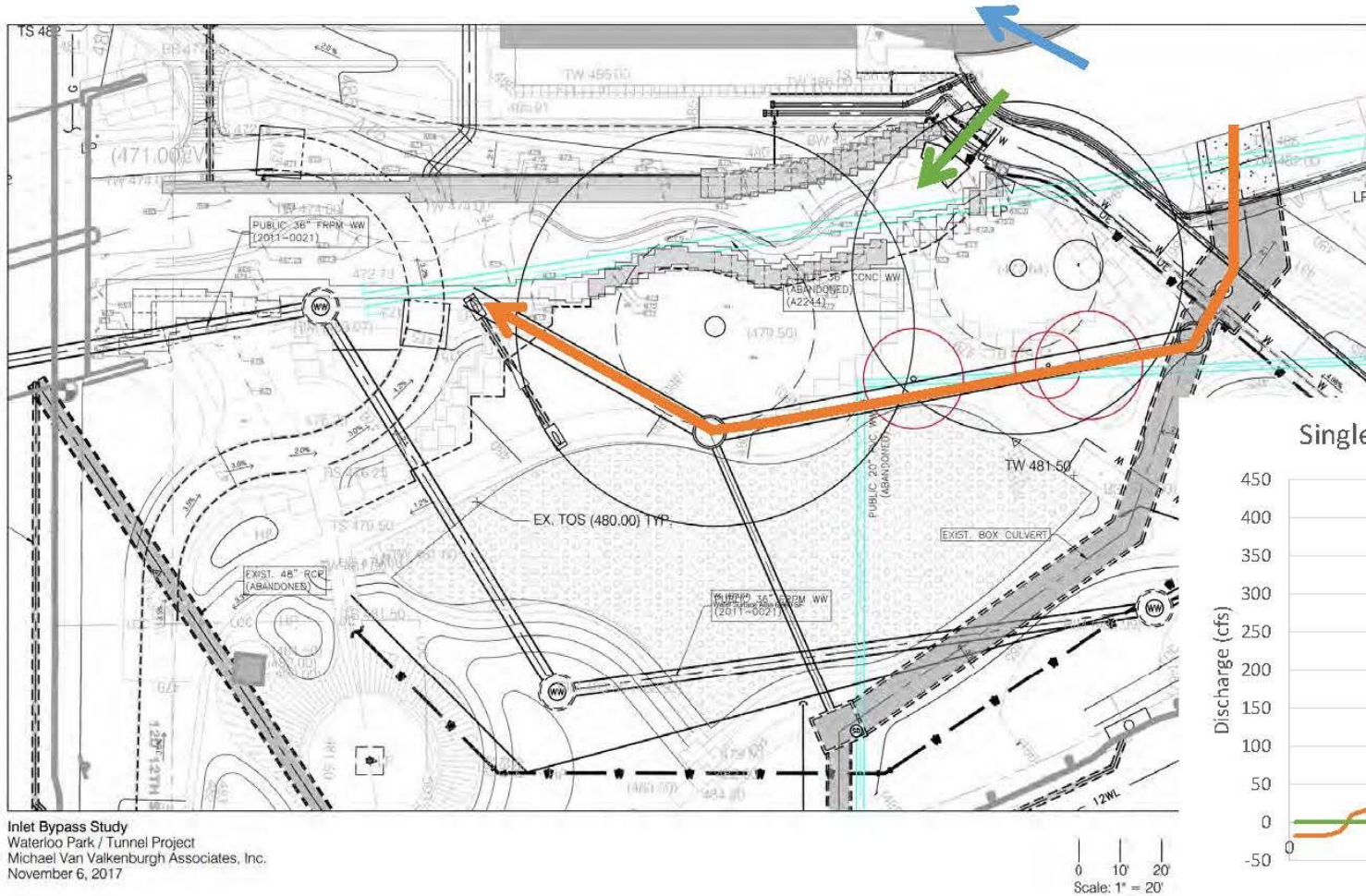


Biennial - Sediment and Debris Removal

- ◇ 2017 – 3,300 Tons
- ◇ 2019 – 2,100 Tons
- ◇ 2021 – July thru September



INLET BYPASS AS A SOLUTION

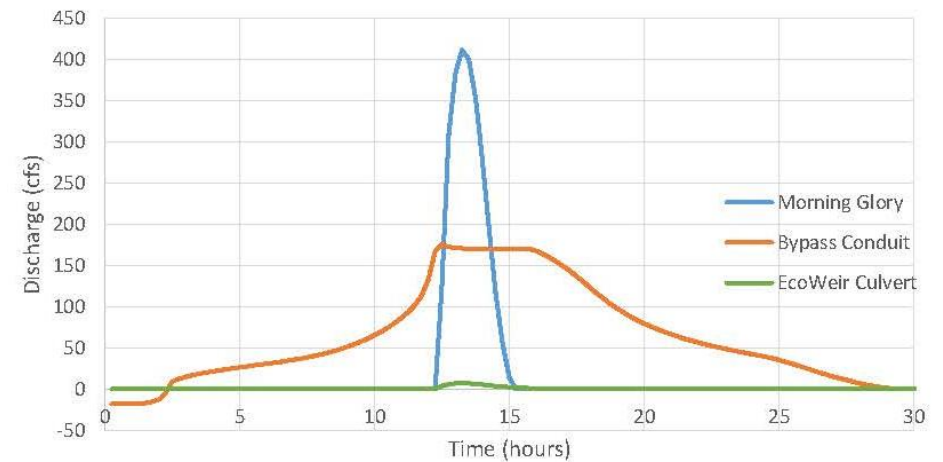


Peak Bypass Flow = 168 cfs

% Storm Reduction = 63%

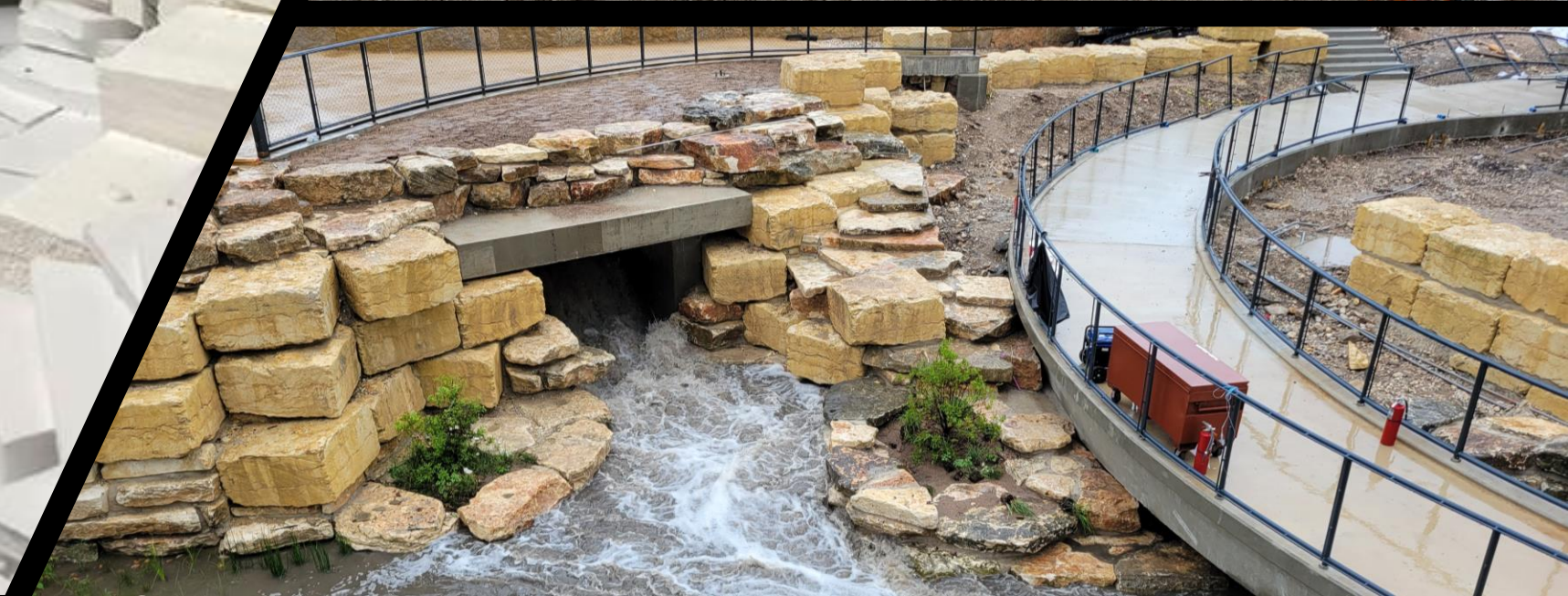
Max Sediment Size Passed = 1 mm

Single Conduit Bypass Discharge During 1.2-in Storm

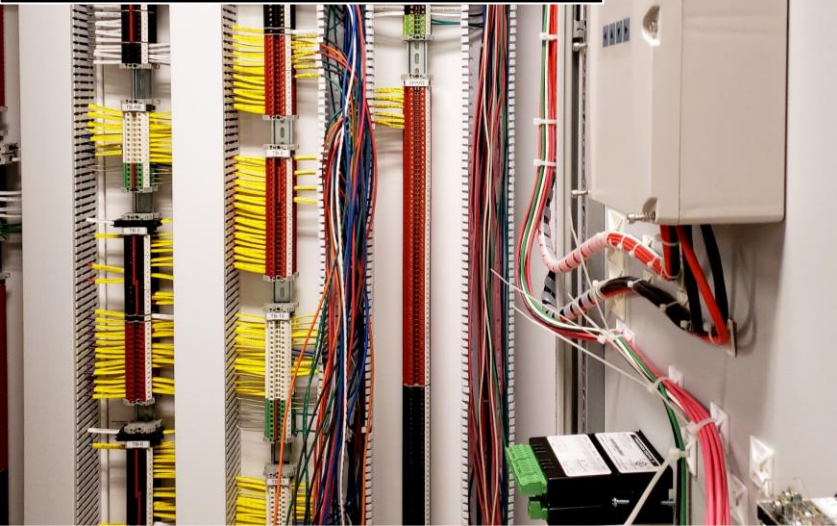


INLET BYPASS CULVERT CONSTRUCTION, JANUARY 2020





Instrument and Controls



Adaptive Management through Projects

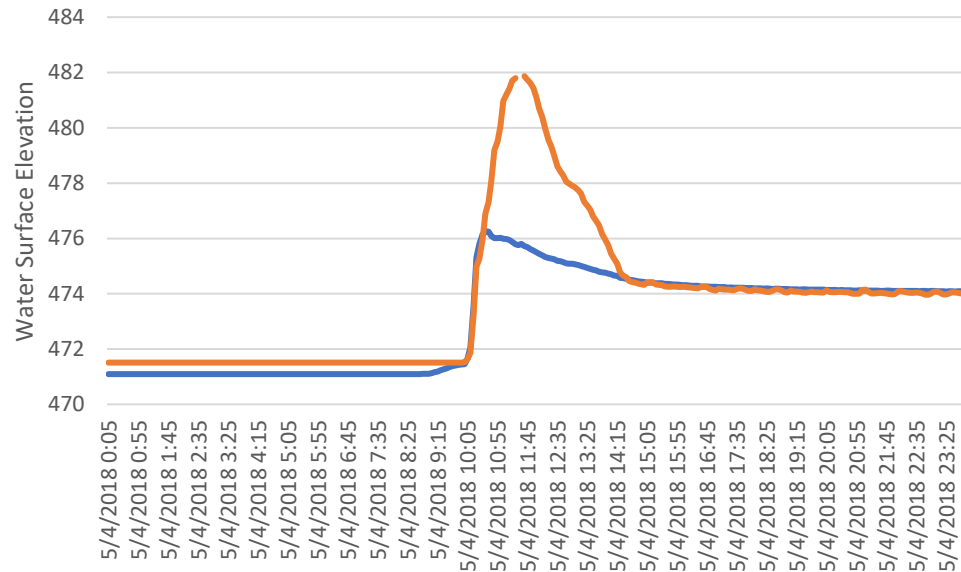
- ◆ **Outlet Slide Gates**
- ◆ Safety, Redundancy, and Efficiency
- ◆ Efficiency
- ◆ Redundancy
- ◆ Fall 2021



Projects – Inlet Catenary Screen Pilot

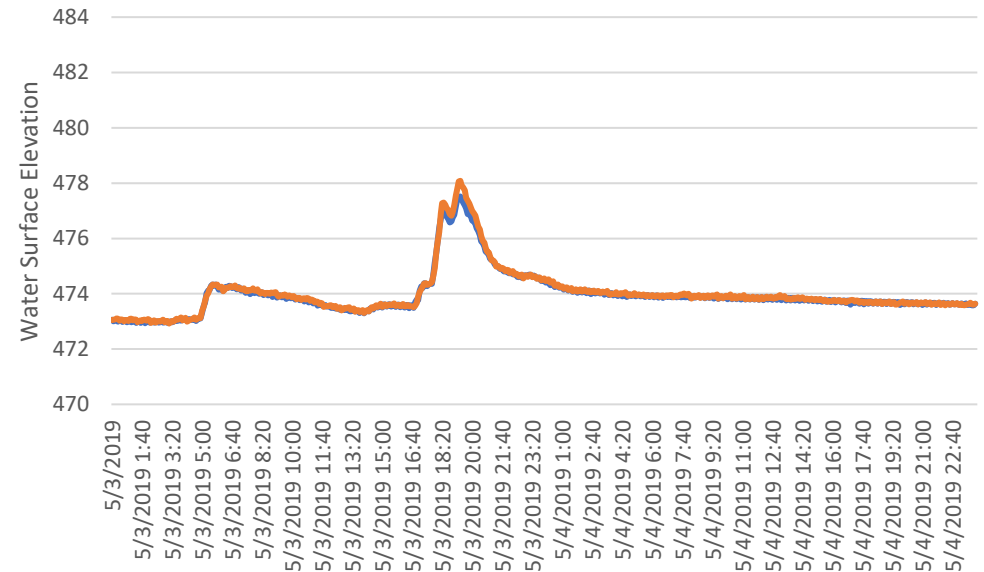
05/04/18 ~1,400 CFS @ 23rd St

WCT Inlet Bar Screens Water Surface Elevation
05/04/18



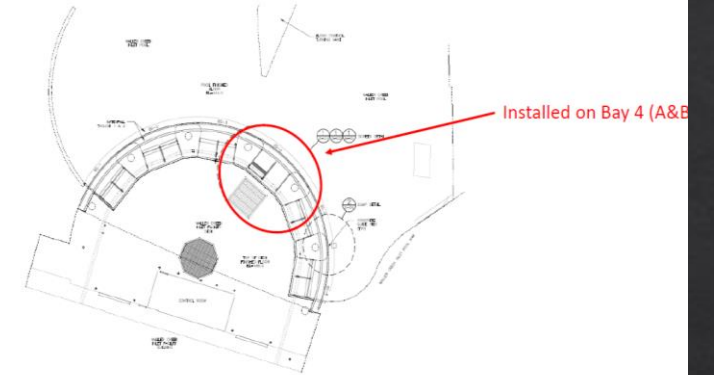
05/03/19 ~2,400 CFS @ 23rd St

WCT Inlet Bar Screen Water Surface Elevation
05/03/19

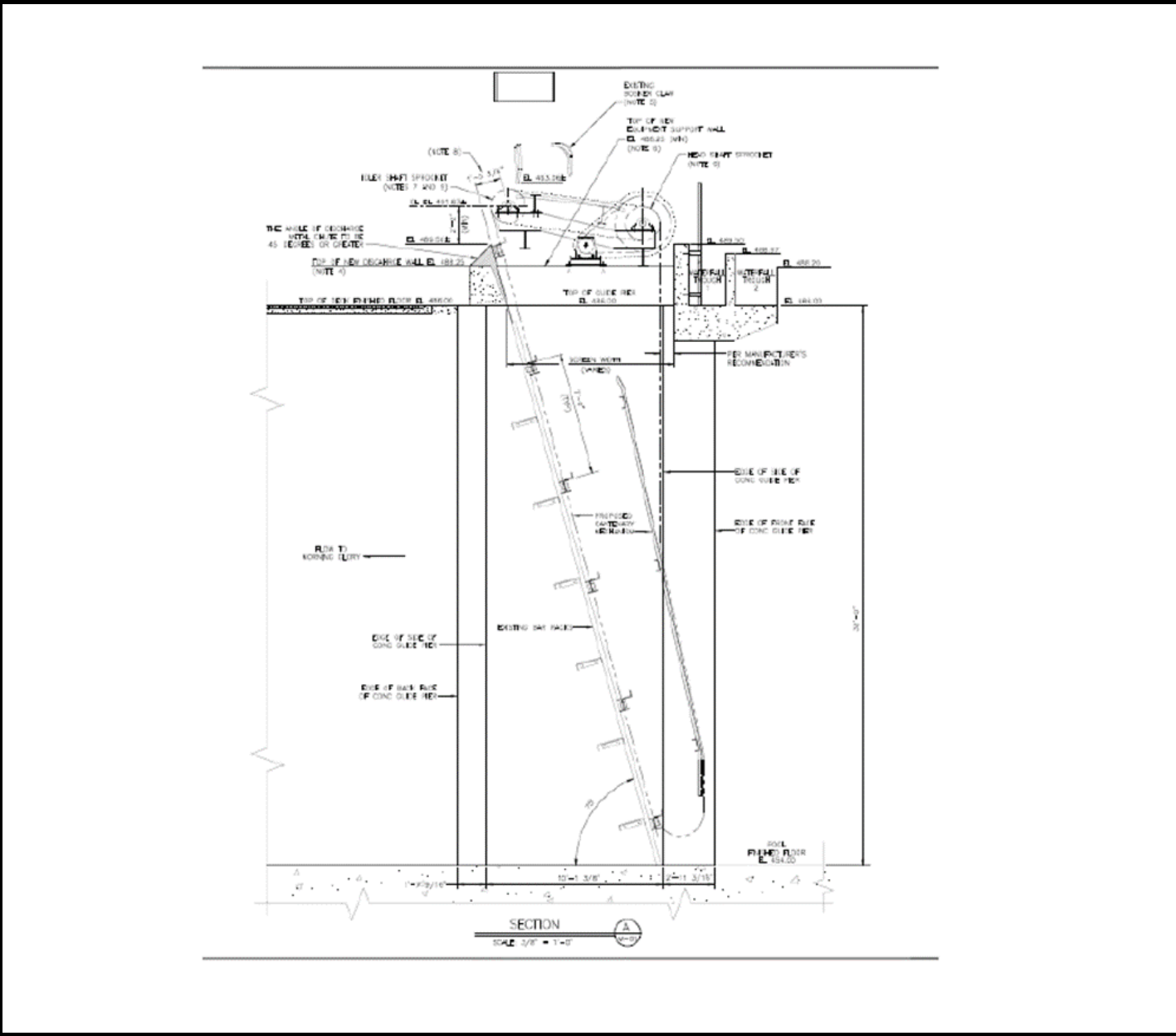
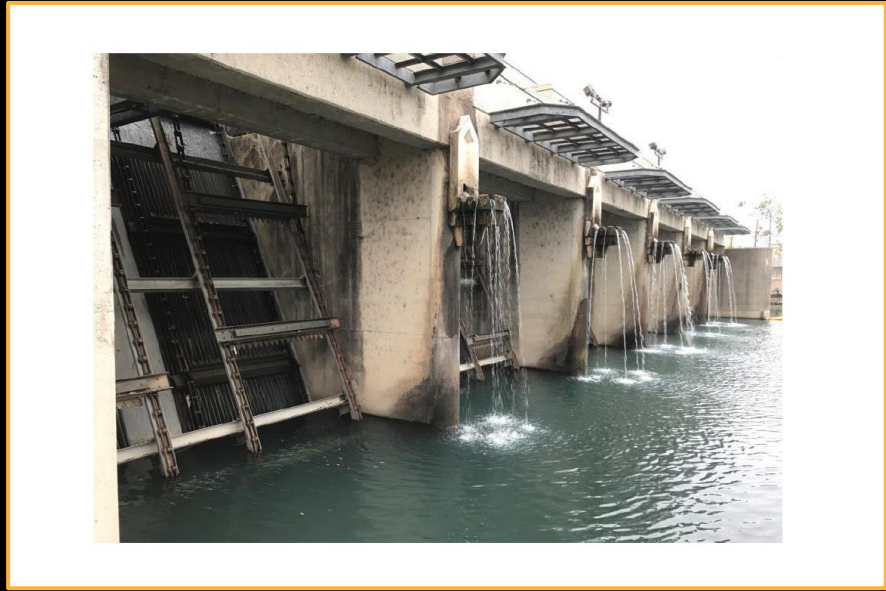
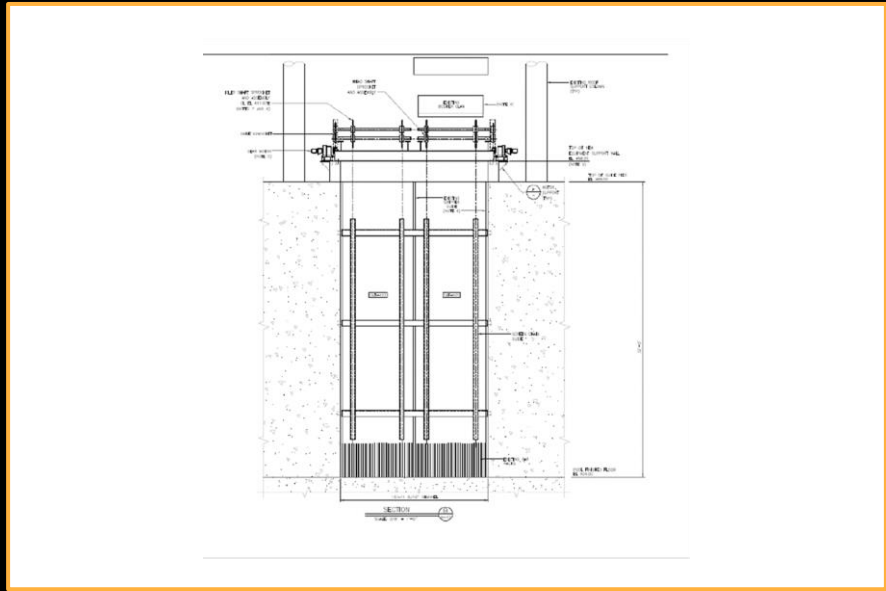




Inlet Facility Catenary Pilot



Projects – Inlet Catenary Screen Pilot



Catenary Pilot - Timeline

- ◇ Schedule
 - ◇ Bidding/Award – Summer 2021
 - ◇ Construction – as early as Fall 2021
- ◇ Construction – 6 month duration
 - ◇ Work will not be occurring onsite for the entire 6 months – includes fabrication
 - ◇ LOC includes Inlet Deck and Inlet Pond
 - ◇ Sequenced to minimize time in “dry” pond
 - ◇ Coordinate with Park Operations

Coordination of Activities

- ◆ Great Communication with WGC Staff
- ◆ Waterloo Operating MOU
- ◆ Shared Calendar
- ◆ Monthly Meetings
- ◆ Coordinating Communications



Questions?