



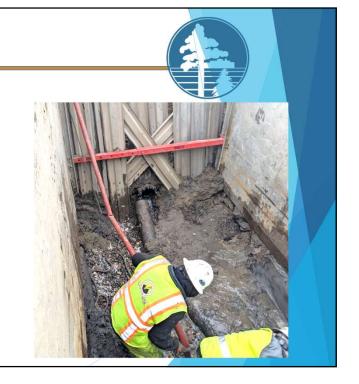
Work So Far...

Jan 25-27:

Repaired failure of the 8" main at connection to the 16" main

Bypass Pump Forcemain Using Vac Trucks





Work So Far...

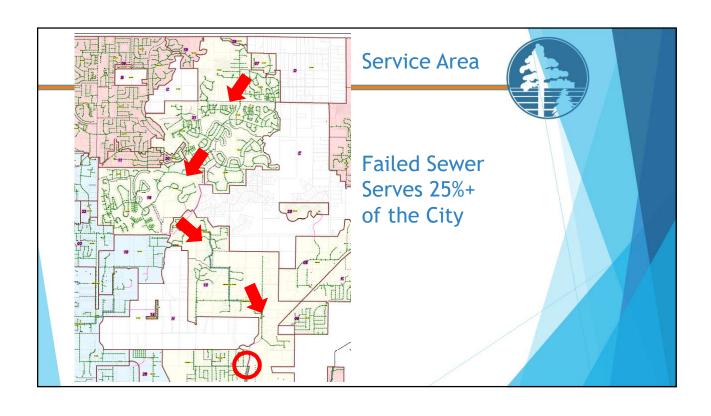
Jan 27-Feb 1:

Determined sewer had collapsed outside of the 35ft deep Manhole

Set up Static Pump bypass

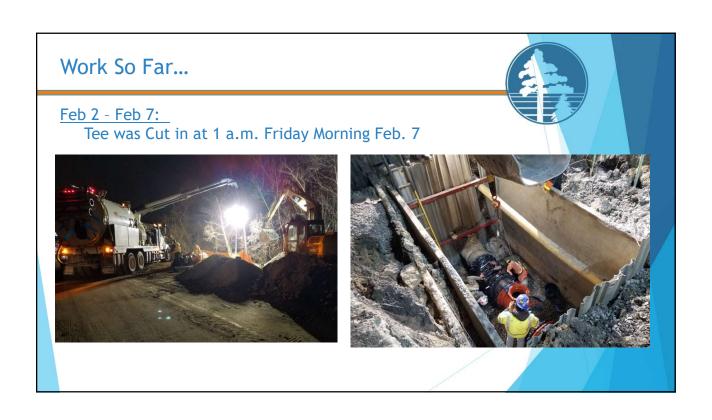
Designed Forcemain Bypass Plan











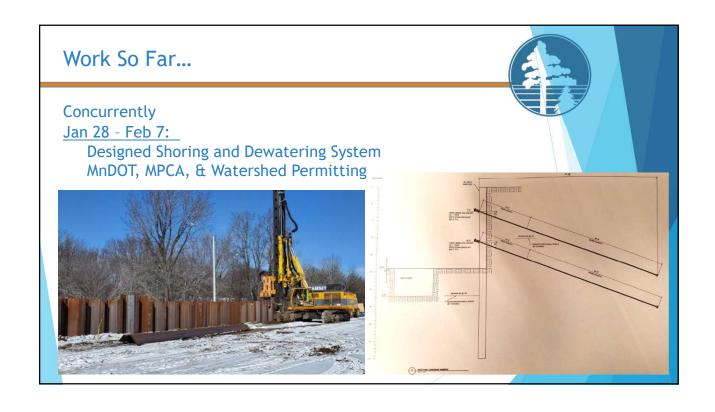
Work So Far...

Feb 2 - Feb 7:

Tee was Cut in at 1 a.m. Friday Morning Feb. 7

Eliminated need for 2 of 3 Rented Bypass Pumps







Work So Far...

Feb 12, 15, 17-18:
Installed Sheet Piling

Can now begin excavation

Next Steps:

Remove Asphalt

Remove Frost - 4-6ft Deep Approx 900 CYI Will need to be hauled away to thaw

Begin Dewatering Operations

Excavate to Water Table,
Then to bottom of Tier 1 Dewatering

Install First Level Tie Backs



Next Steps 2:

Tier 2 Dewatering - Approx 15ft to 25-30ft

Excavate

Install Tier 2 Tie Backs

Excavate to bottom of Manhole



Next Steps 3: Weeks of March 2 - March 13

Remove Old Manhole

Repair Broken Pipes

Install new Manhole and Pipes

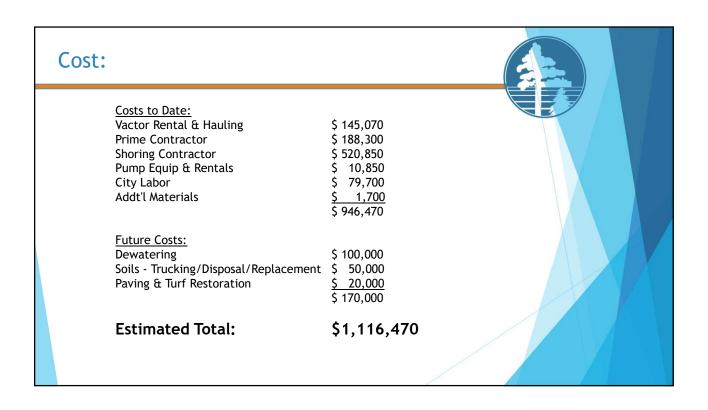
Backfill out

Reinstall Watermain

Site Restoration

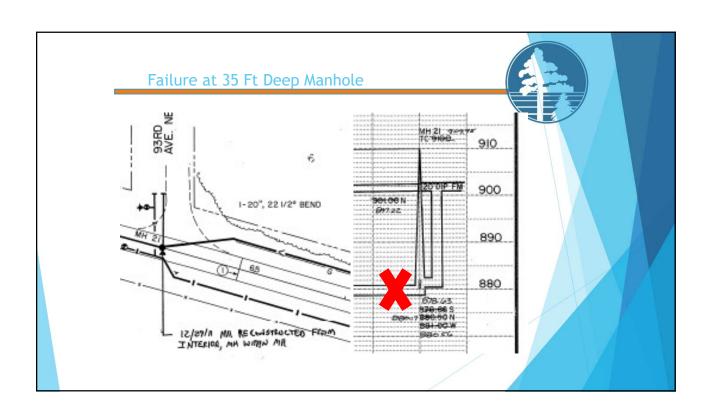
Remove all Equipment











Scope of Work - Week 2 (Feb 3-9)

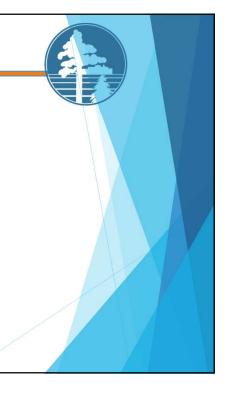
- 1. Relocate Centerpointe Energy Gas Main
- 2. Line Stop & Isolation Valve on 16"Watermain
 - Temporarily remove approx. 100 ft of this
- 3. Fuse & lay 12 Fusible PVC bypass line
- 4. Cut in bypass Tee & Plug Valve on 20" Sewer
 - 1am Wednesday
 - Will have Vactor Trucks on standby
- 5. Begin Dewatering for Manhole Replacement



Scope of Work - Week 3 (Feb 10-16)

- 1. Install Shoring and Trench Stabilization
- 2. 2nd Stage Dewatering 15ft to 32ft Deep
- 3. Demo of 35ft Deep Manhole
- 4. Clean & Repair downstream Sewer





Scope of Work - Week 4 (Feb 17-23)

- 1. Install New 35 Ft Manhole
- 2. Reconnect Sewer
 - Downstream 27" sewer
 - 93rd Ave sewer later
 - New Forcemain connection
- 3. Switch back to Full Sanitary Sewer Operation

Suspend 24/7 Monitoring Emergency Stabilized

Scope of Work - Week 5 (Feb 24-29)

- 1. Reinstall Watermain
- 2. Reconstruct Road



