

Hartstene Pointe Water-Sewer District

Sewer System Rehabilitation Project

Hartstene Pointe Water - Sewer District



Dedicated to Service

Who We Are



Matt Morkert, PE
Spokane, Washington

Vice President, Operations

A professional headshot of Matt Morkert, a man with a goatee and short hair, wearing a light blue button-down shirt. The photo is set against a light gray background and is framed by a dark blue octagonal border.

Ron Weigel, PE
Portland, Oregon

Senior Project Manager

A professional headshot of Ron Weigel, an older man with glasses and short hair, wearing a blue patterned button-down shirt. The photo is set against a light gray background and is framed by a dark blue octagonal border.

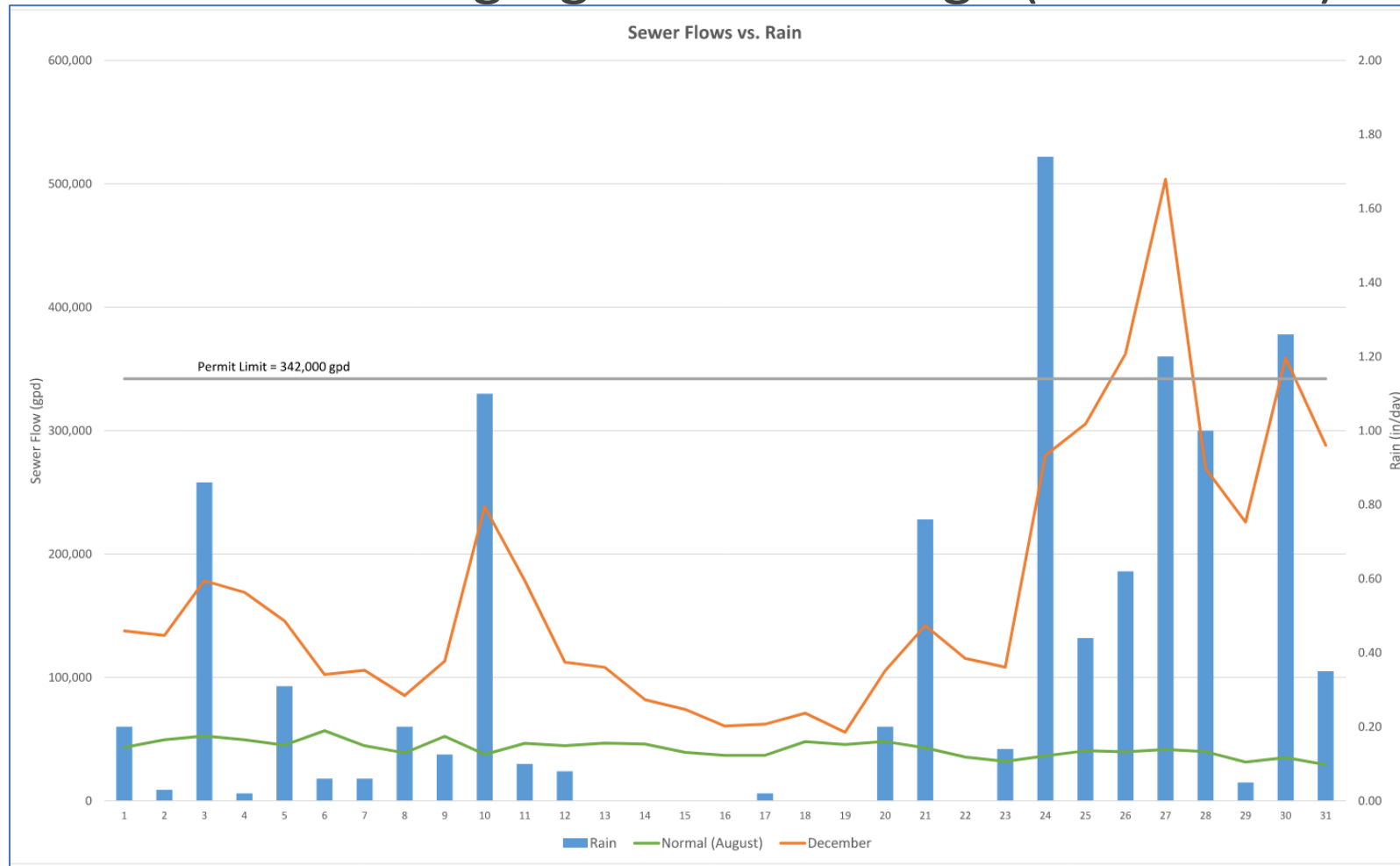
Why Are We Rehabilitating the Sewer?

- Sewer Lines are old and failing
- Sewer Lines weren't properly installed



Why Are We Rehabilitating the Sewer?

- Sewer line failures causing significant leakage (infiltration)



Why Are We Rehabilitating the Sewer?

- Why is Infiltration (leakage) a concern?
 - NPDES permit limitations

Maximum Month Design Flow (MMDF)	186,000 gpd
Peak Daily Design Flow	342,000 gpd
BOD ₅ Influent Loading for Maximum Month	270 lbs/day
TSS Influent Loading for Maximum Month	270 lbs/day

- Last slide shows 3 violations in December 2022

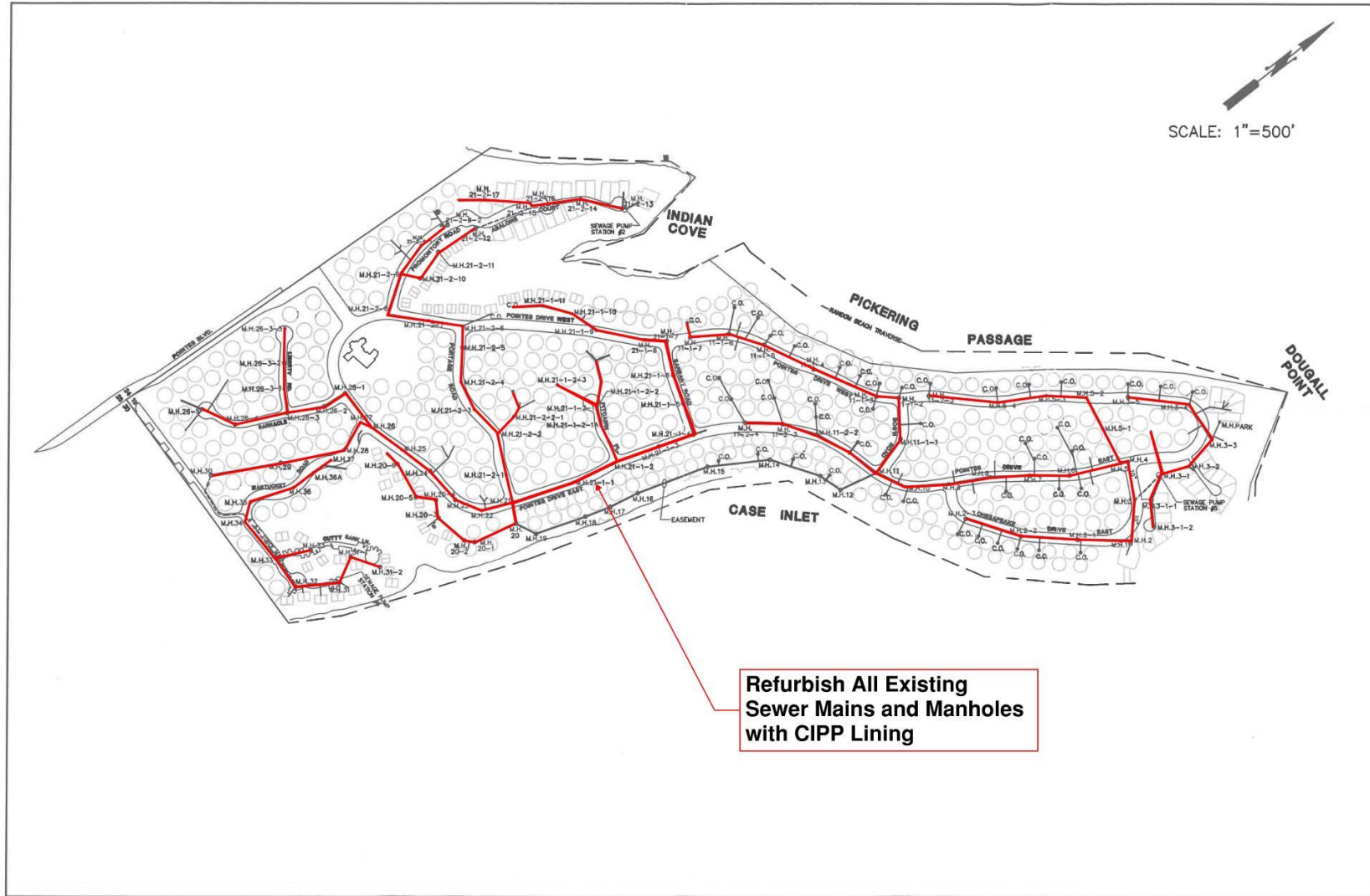
Why Are We Rehabilitating the Sewer?

- Why are violations a concern?
 - Lawsuits due to Clean Water Act (CWA)
 - Waste Action Project filed an intent to sue under CWA in 2023
 - Lawsuits cost money to defend and settle or pay fines
- If not taken seriously, could lead to jail time for Operators and Managers!!!
- Secondary concern – Bluff Sewer
 - Catastrophic failure of bluff would dump raw sewage into Puget Sound

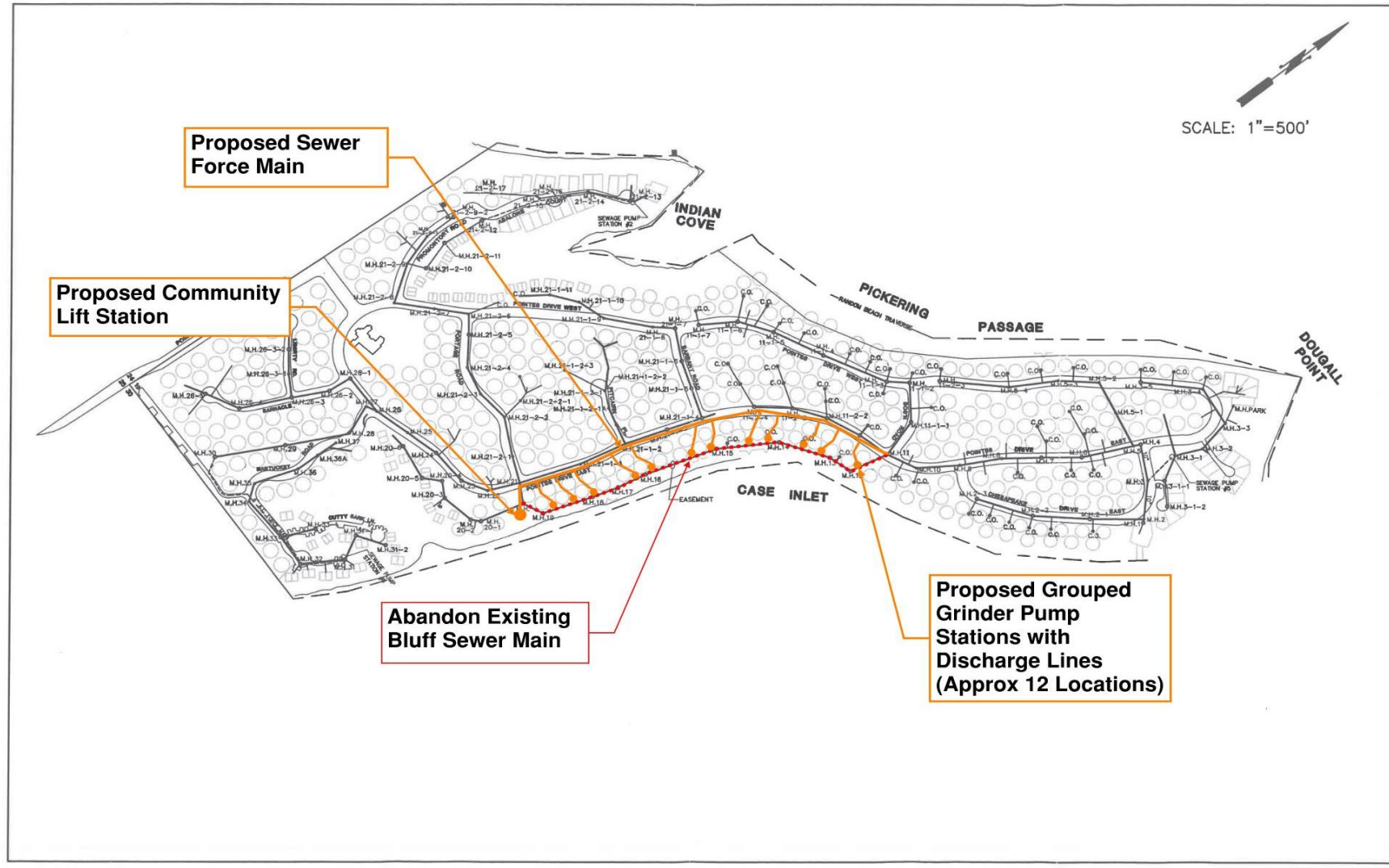
What Are We Going to Do?

- Two components of the project:
 1. Cured in Place Piping (CIPP) for majority of system
 - Potential for Pipe Bursting where CIPP not practical
 2. Bluff Sewer Realignment and Replacement
 - Replace bluff sewer with new pump station and force main in Pointes Drive
- Will also replace or install CIPP in service lines where necessary

What Are We Going to Do?



What Are We Going to Do?



How is this Going to Impact Me?

- CIPP and Pipe Bursting Portion
 - Minimal trenching and digging
 - Typically crew is setup at adjacent manholes
 - Streets should be nearly fully open, maybe partial closures at manholes where they are in the middle of the street
 - Minimal road replacement, only where necessary

How is this Going to Impact Me?

- Bluff Sewer Line
 - Will need to install a trenched in force main from Portage to Bos'n
 - Most impact along this stretch
 - Will try to keep it on one side of the road to allow traffic to pass
 - Road replacement anticipated to be as minimal as possible, half-road width at the most

Schedule

	2023	2024				2025				2026
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Notice to Proceed	★									
Field Investigations & Reporting	■									
Permitting	■	■								
Preliminary Design	■	■								
Final Design		■	■	■						
Construction				■	■	■	■	■		
Public Involvement		★	★	★						



Questions?