

# Hartstene Pointe Water-Sewer District

Sewer System Rehabilitation Project



 **CENTURY  
WEST**  
ENGINEERING

# Who We Are



**Matt Morkert, PE**  
Spokane, Washington  
Vice President, Operations

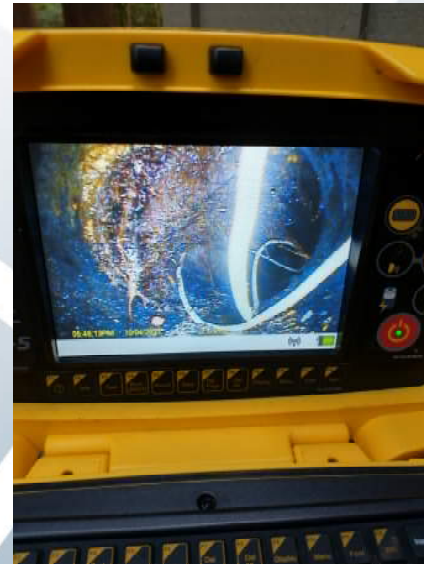
A professional headshot of Matt Morkert, a man with a goatee and short hair, wearing a light blue button-down shirt. The photo is set against a light gray background and is framed by a dark blue border at the bottom.

**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 border at the bottom.

# Why Are We Rehabilitating the Sewer?

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



# 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 <sub>5</sub> Influent Loading for Maximum Month	270 lbs/day
TSS Influent Loading for Maximum Month	270 lbs/day



# Why Are We Rehabilitating the Sewer?

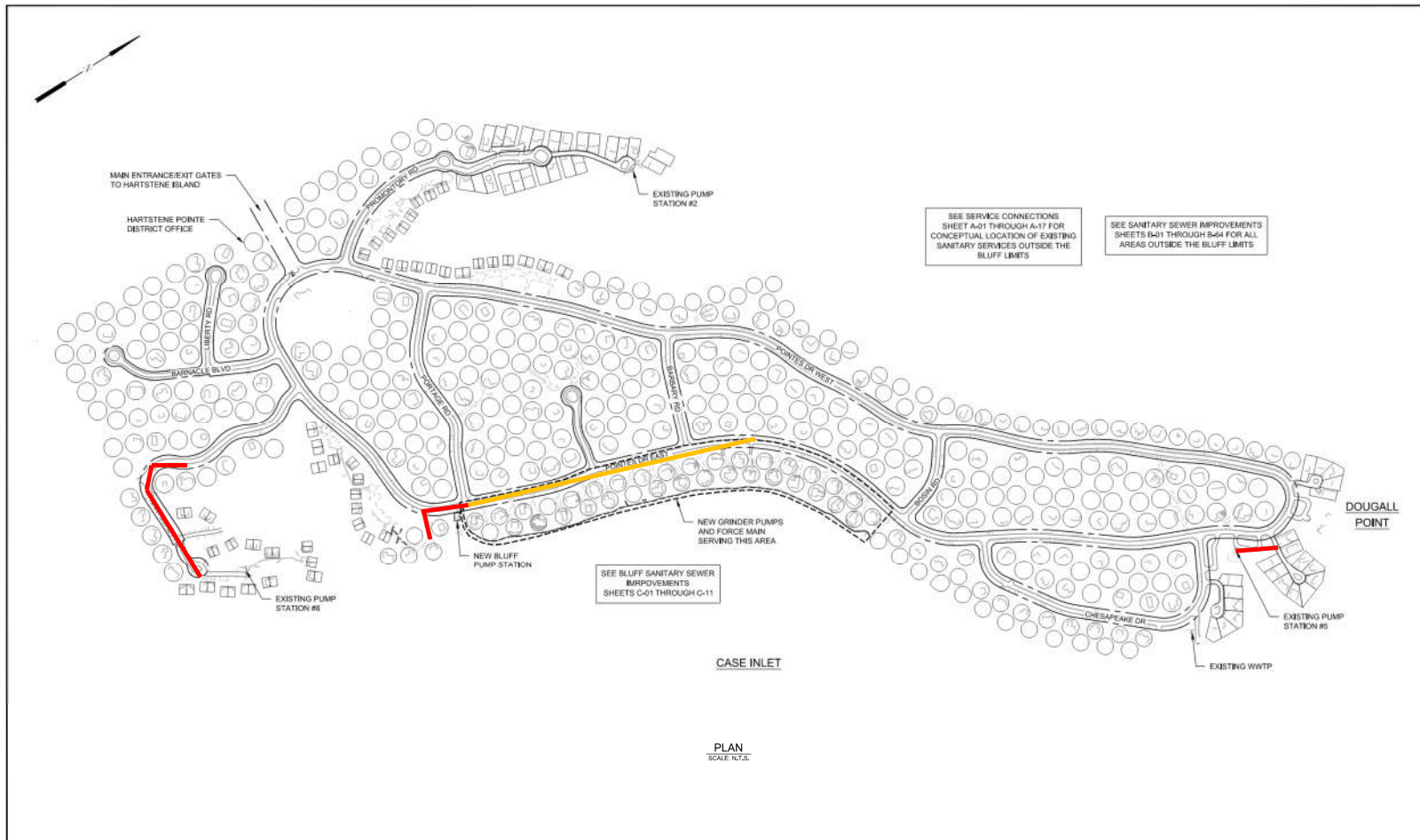
- Why are violations a concern?
  - Lawsuits due to Clean Water Act (CWA)
    - Waste Action Project filed an intent to sue under CWA in 2023
    - Lawsuits cost money to defend and settle or pay fines
- Secondary concern – Bluff Sewer
  - Catastrophic failure of bluff would dump raw sewage into Puget Sound

# What Are We Going to Do?

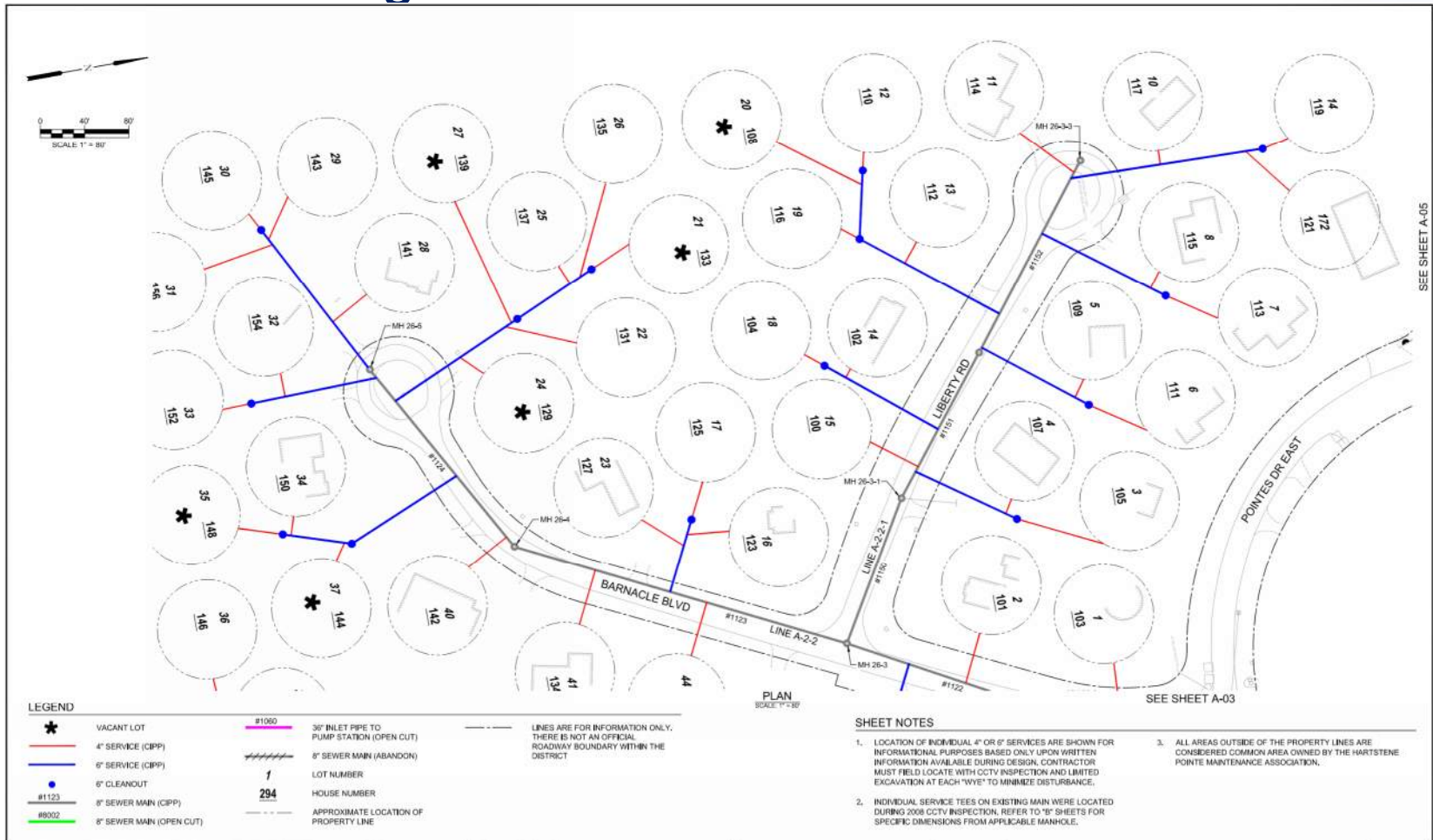
- Two components of the project:
  1. Cured in Place Piping (CIPP) for majority of system
    - Potential for Pipe Bursting where CIPP not practical
  2. Bluff Sewer Realignment and Replacement
    - Replace bluff sewer with new pump station and force main in Pointes Drive
- Will also replace or install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



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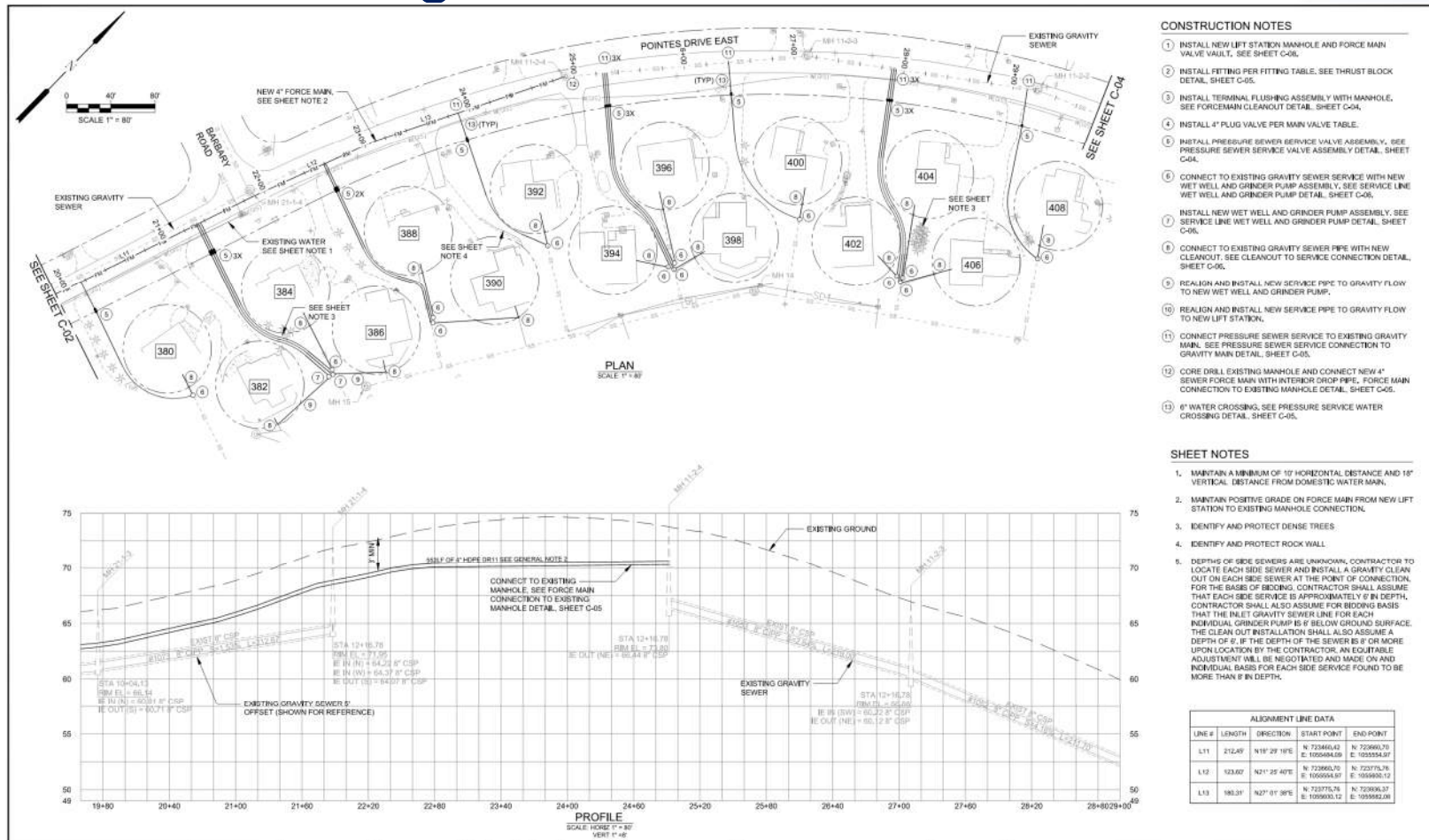


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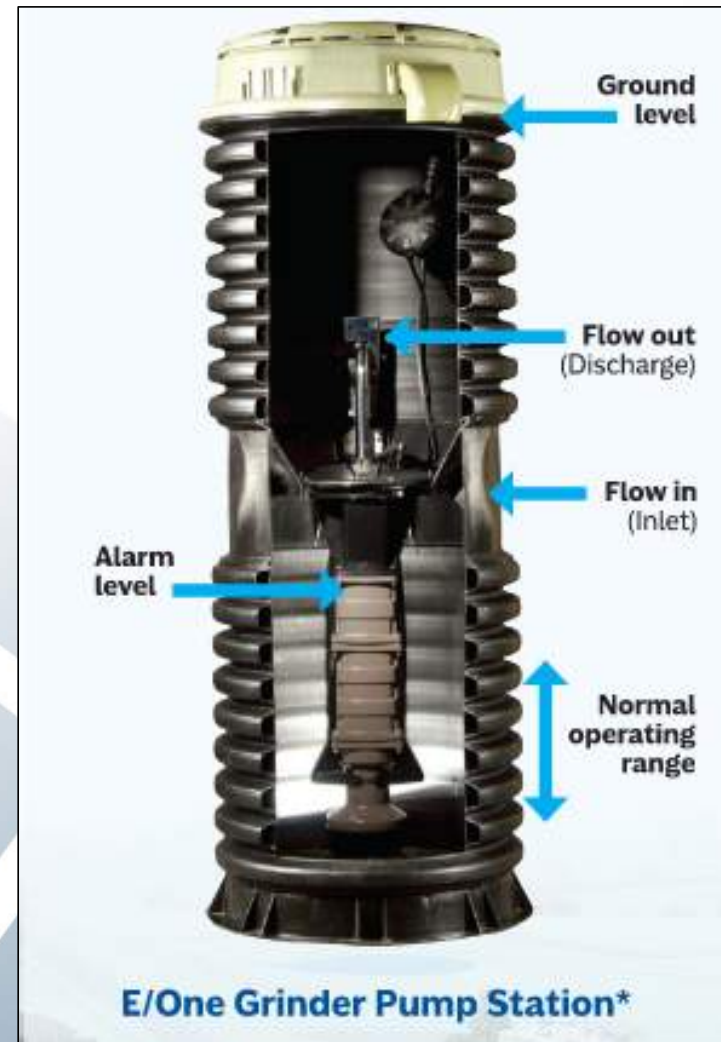




# What Are We Going to Do?



# How is this Going to Impact Me?








# Proposed Bluff Sewer Services



# How is this Going to Impact Me?

- Replacement/Repair of Existing Service lines
  - Need to excavate from the existing sewer line to new grinder pump location
  - Need to install a cleanout on the existing service line where we change direction to the grinder pump
  - Would like to install this as close to the house as possible to eliminate as much old service line as possible
  - Service Line depth varies depending on if you have a basement or not

# Schedule

	2023	2024				2025				2026
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
<b>Notice to Proceed</b>	★									
<b>Field Investigations &amp; Reporting</b>										
<b>Permitting</b>										
<b>Preliminary Design</b>										
<b>Final Design</b>										
<b>Construction</b>										
<b>Public Involvement</b>	★	★	★	★						



# Questions?