

# Decommissioning of Beach Sewer in Manette (OF-4 to EB-2)



City of Bremerton

December 14, 2021

# PROJECT OVERVIEW

## SCOPE

- ❖ Decommission cast iron gravity sewer located on the beach between E. 16<sup>th</sup> and the Manette Bridge. Sewer laterals will be redirected from the main to the new grinder pumps and upland sewer system for discharge to the Wheaton Way sewer
- ❖ City has retained Parametrix to prepare the design and contract documents

## SCHEDULE

- ❖ Design in 2022; Construction in 2023

## COST

- ❖ Construction estimate at \$2.8M to \$3.6M
- ❖ Funded by \$2.3M loan from the Department of Ecology



# PROJECT LOCATION

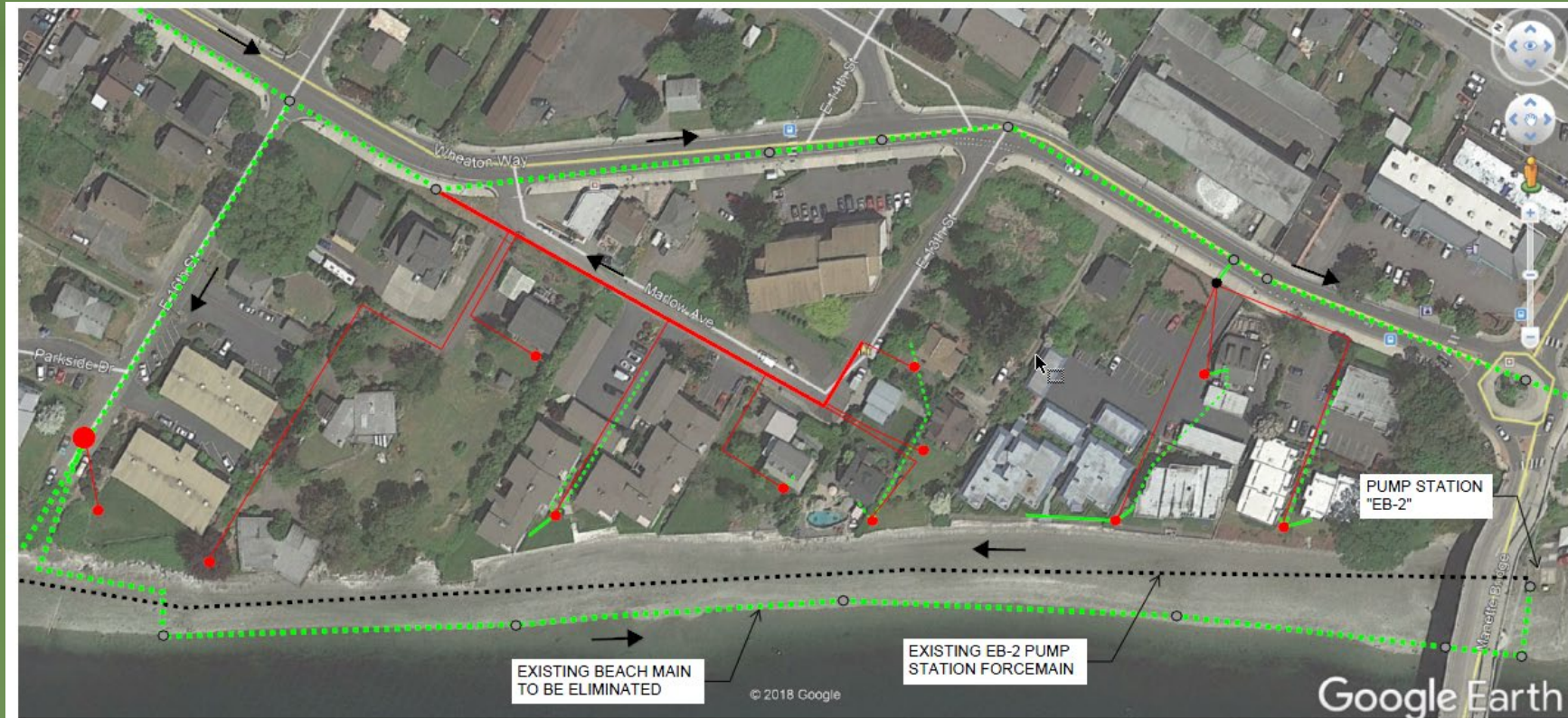


# PROJECT BENEFITS

- ❖ The main is at end of its useful life. Want to avoid failure leading to sanitary sewer overflow and costly emergency cleanup/repair
- ❖ Main has reduced diameter due to build-up. No ability to jet or pig
- ❖ Lateral connections on the beach are difficult to access and maintain



# CONCEPTUAL DESIGN



**LEGEND**

	EXISTING	NEW
SS GRAVITY MAIN		
SS GRAVITY LATERAL		
LOW PRESSURE SEWER MAIN		
LOW PRESSURE SEWER LATERAL		
GRINDER PUMP STATION		
OVERFLOW STRUCTURE 4		
SS MANHOLE		

DIRECTION OF FLOW ARROW

Parametrix



Not to Scale

**Manette Beach Sewer Project**

Figure 5 - Alternative S-2 Site Plan



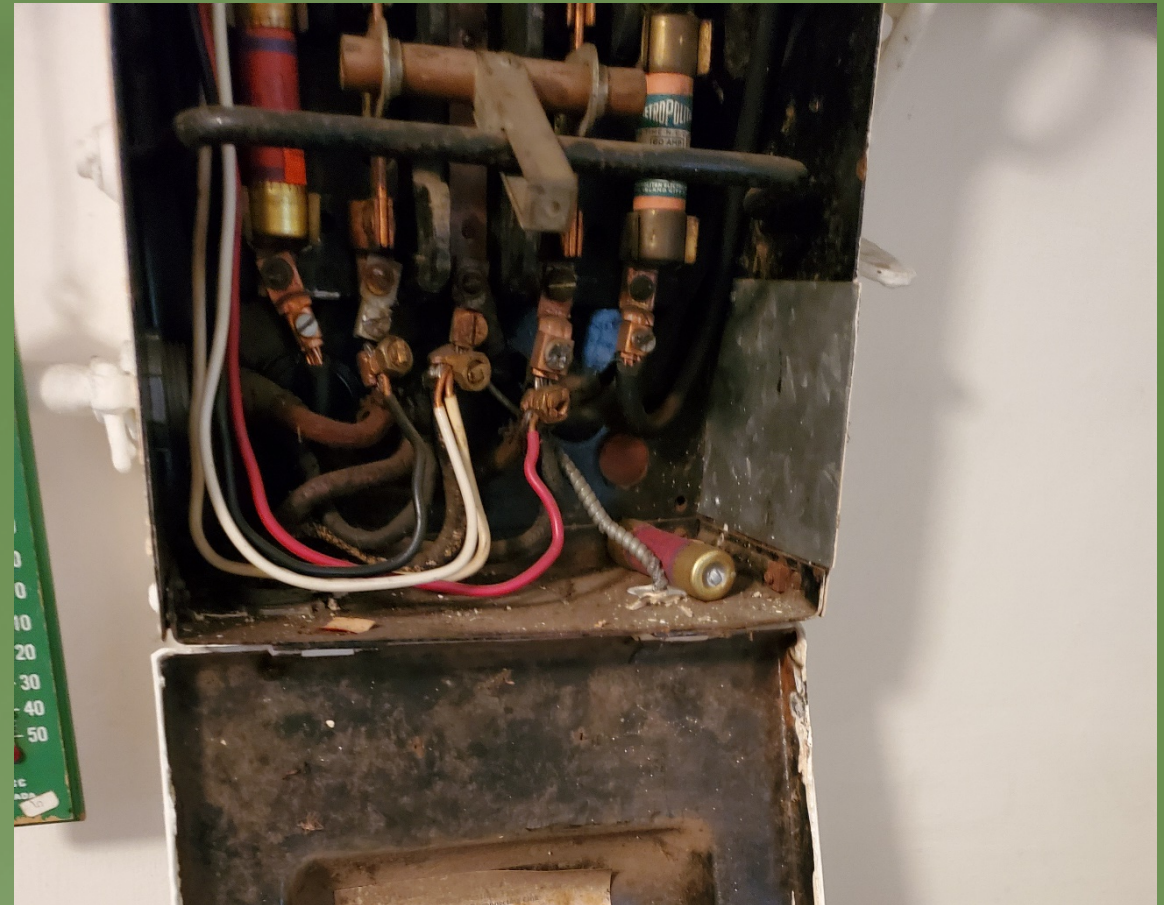
# PAST PROJECTS - RESIDENTIAL



# PAST PROJECTS - DUPLEX



# UPGRADING ELECTRICAL SERVICES





# FROM DESIGN TO CONSTRUCTION

- Public Outreach
- Right of Entry form
  - ❖ Property owner gives permission to City to come on property for design
- Site visit by City staff and consultant.
  - ❖ City will set an appointment to meet with each property owner to discuss project, address concerns, and gather information about the property
  - ❖ Confirm key contacts for condo HOAs and apartment complexes
- Site design by consultant
  - ❖ City/consultant will coordinate with property owner to ensure agreement with the design prior to bidding.
- Executing the Grinder Pump Service Agreement (GPSA).
  - ❖ This important document is a legal agreement between the City and property owner. To be discussed further.
- Bidding the project for construction



# GRINDER PUMP SERVICE AGREEMENT

- Executed and signed by the City (Mayor as signatory) and the property owner.
  - ❖ Requires notarization and recording with the County. Stays with the property.
- Establishes that the City owns, operates, and maintains the grinder pump system to be installed on the owner's property. The discharge service lateral from the pump to the property line is the responsibility of the property owner.
- Property owner agrees to:
  - ❖ Provide and maintain access to the pump through City's contractor Correct Equipment.
  - ❖ Allow the City's contractor to enter the property and install the system.
  - ❖ Pay the cost of electrical power (\$1 to \$2 per month for single family residential) and monthly maintenance surcharge (\$12/month in 2022 on top of regular sewer bill)
  - ❖ Use the pump in accordance with the manufacturer's requirements (e.g. do not flush rags, rocks and other prohibited items into the sewer, as these could damage the pump.)



# COMMON ISSUES AND CONCERNS

- Locating the lateral
- Slopes (Geotech)
- Odor
- Sound (pumps, alarm, and generator)
- Appearance
- Power outage (storage in tank and emergency power)
- Landscaping around the pumps
- Who pays for installation, ongoing maintenance, electrical costs?
- What do I do if I have a problem (alarms goes off)?
- Construction Impact



# QUESTIONS AND COMMENTS ??

## Contact Information

Bill Davis, P.E. – Project Manager

Email: [william.davis@ci.bremerton.wa.us](mailto:william.davis@ci.bremerton.wa.us)

Phone: (360) 473-2312

Michele Filley, P.E. – Project Engineer

Email: [michele.filley@ci.bremerton.wa.us](mailto:michele.filley@ci.bremerton.wa.us)

(360) 473-2349

