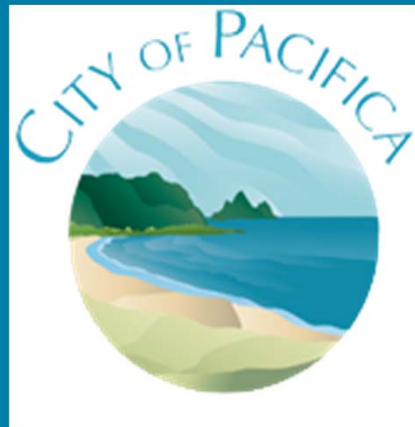

COMMUNITY MEETING

1 MARCH 2018

PEDRO POINT SEWER COLLECTION SYSTEM
REHABILITATION AND REPLACEMENT PROJECT



MEETING AGENDA

- Project Status
- Project Introduction & Rationale
- Project Implementation
- Optional Lateral Replacement
- Project Schedule
- Questions

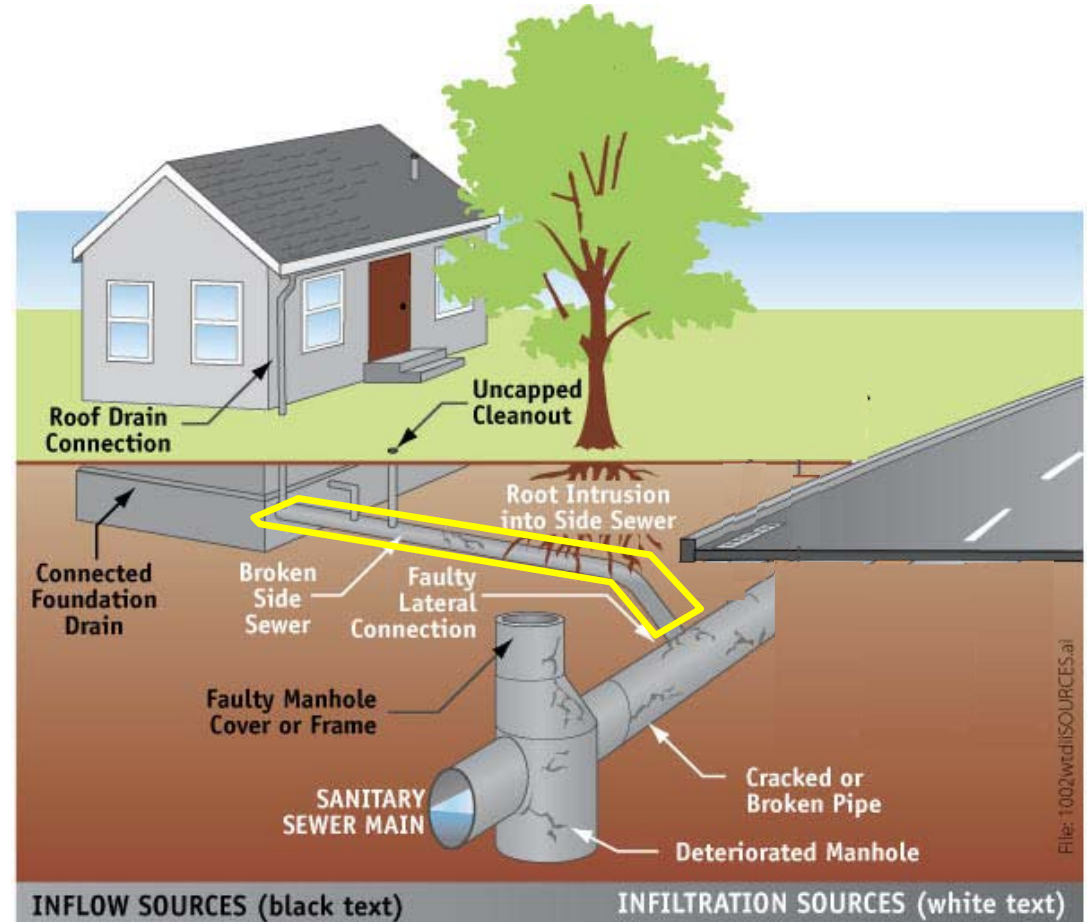
PROJECT STATUS

- Project Construction Contract awarded February 26 to Pacific Trenchless
- Notice to Proceed anticipated to be April 2

PROJECT INTRODUCTION & RATIONALE








Inflow and Infiltration (I/I)

- Root Intrusion
 - Very common in Pedro Point
- Sewer blockages and overflow
 - City cleans mains twice a year
 - Fines for sewage overflows
 - Overflow into nearby creek
- Impact of I/I to wastewater treatment plant and environment



PROJECT MAP

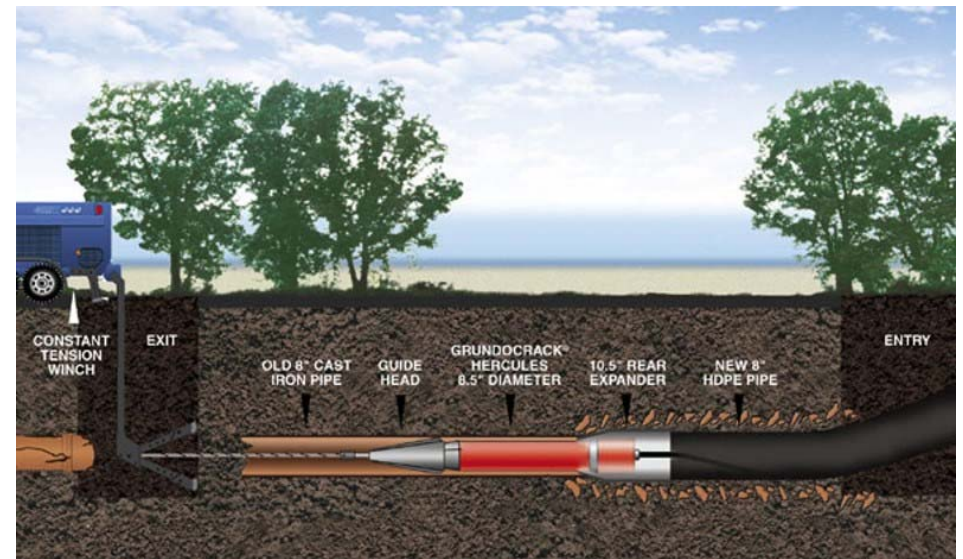
LEGEND:

-  EXISTING MANHOLE
-  EXISTING SEWER
-  PROPOSED 6" SEWER
-  PROPOSED 6" SEWER IN BACKYARD
-  PROPOSED 8" SEWER
-  PROPOSED 8" SEWER IN BACKYARD
-  PROPOSED 12" SEWER



PROJECT IMPLEMENTATION

- Utilize pipe bursting as primary construction method
- Pipe bursting is trenchless method that minimizes surface disruption
- Ideal for residential areas
- Lateral tie-in requires surface disruption



Source: <http://www.tttechnologies.com/pipe-bursting-bridgeport-utility-solutions-goes-distance/>

PIPE BURSTING



1. Dig pull pit



2. Set up winch

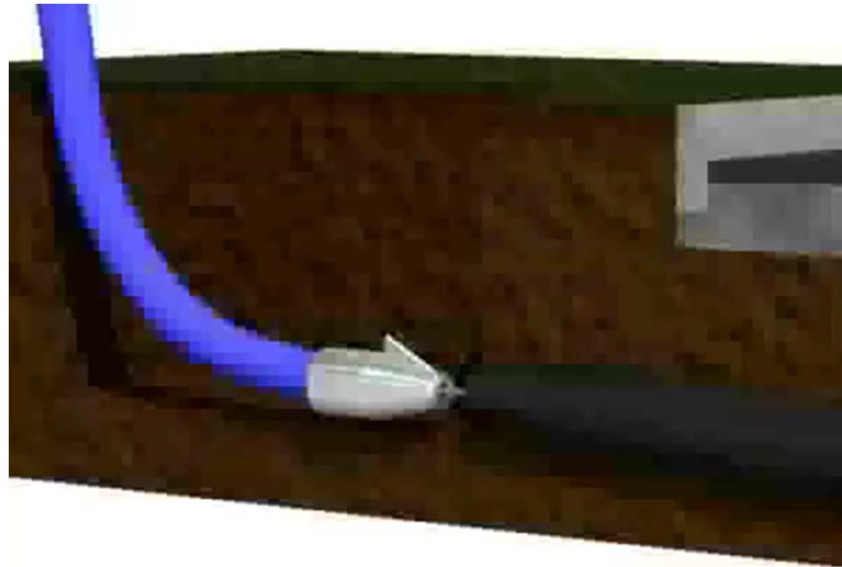


3. Pull wire laid in pipe



4. New pipe pulled

PIPE BURSTING



Source: <https://www.youtube.com/watch?v=JLVdKho8EaA>

ASPHALT PATCH REPAIR

- Prior to construction streets will be documented for current condition
- Once construction is complete, areas where pull pits were required will be patched up to existing conditions
- The small patches will meet current City requirements and will follow standard practices are similar City projects

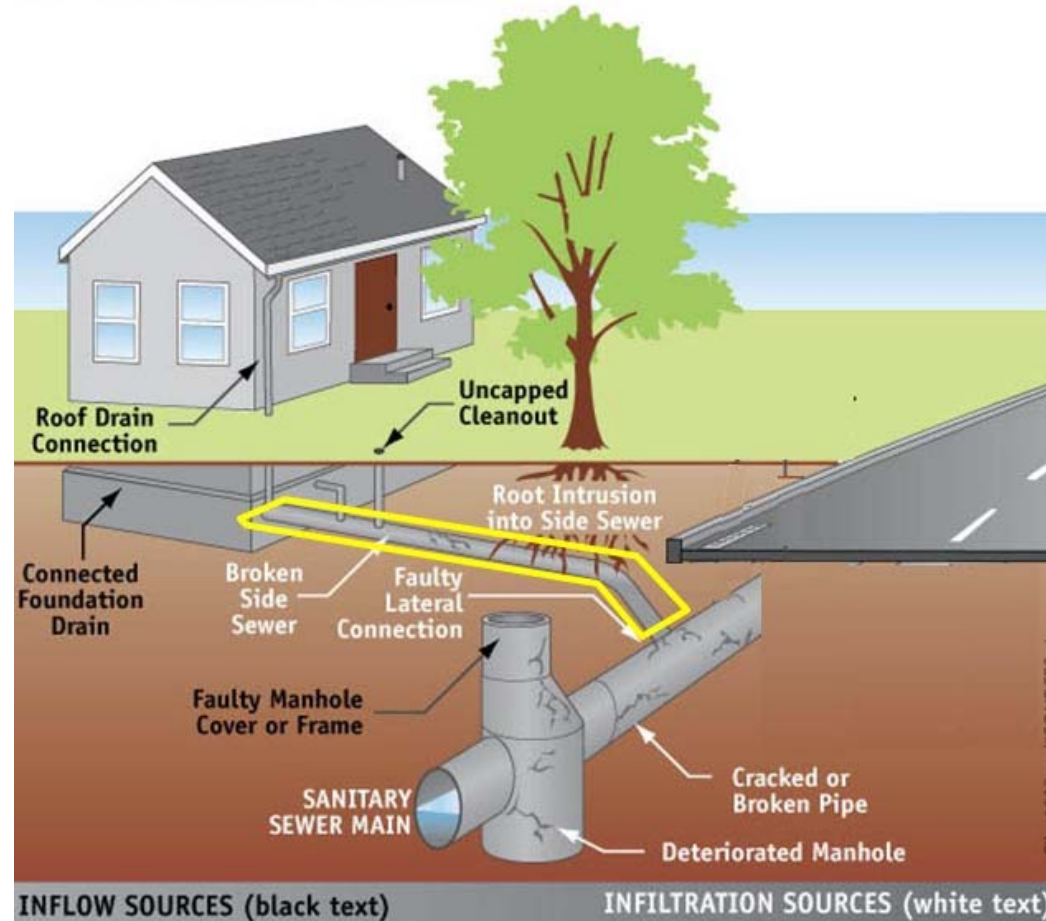


OPTIONAL – LATERAL REPLACEMENT

- When am I required to replace?
- How do I decide if my lateral needs to be replaced?
- What are the cost savings by replacing now?
- How would the lateral replacement contract work?
- When do I need to decide to replace my lateral?

WHEN AM I REQUIRED TO REPLACE

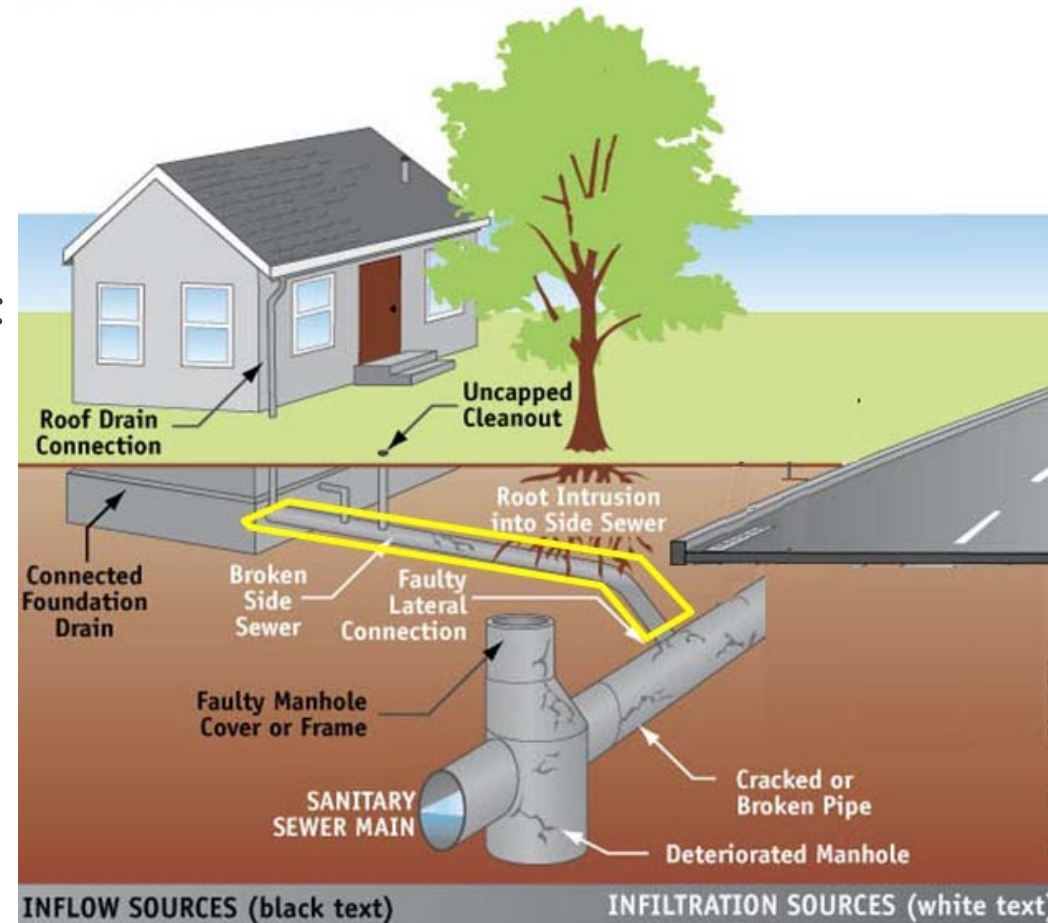
- Lateral Compliance Certificate
 - Transfer of property
 - Remodel or addition that costs \$50,000 or more
 - Adding any plumbing fixtures
 - Change in water service is requested (addition of a meter)
- If you have a Lateral Compliance Certificate, replacement is not required



Source: <http://www.tttechnologies.com/pipe-bursting-bridgeport-utility-solutions-goes-distance/>

HOW DO I DECIDE IF MY LATERAL NEEDS TO BE REPLACED?

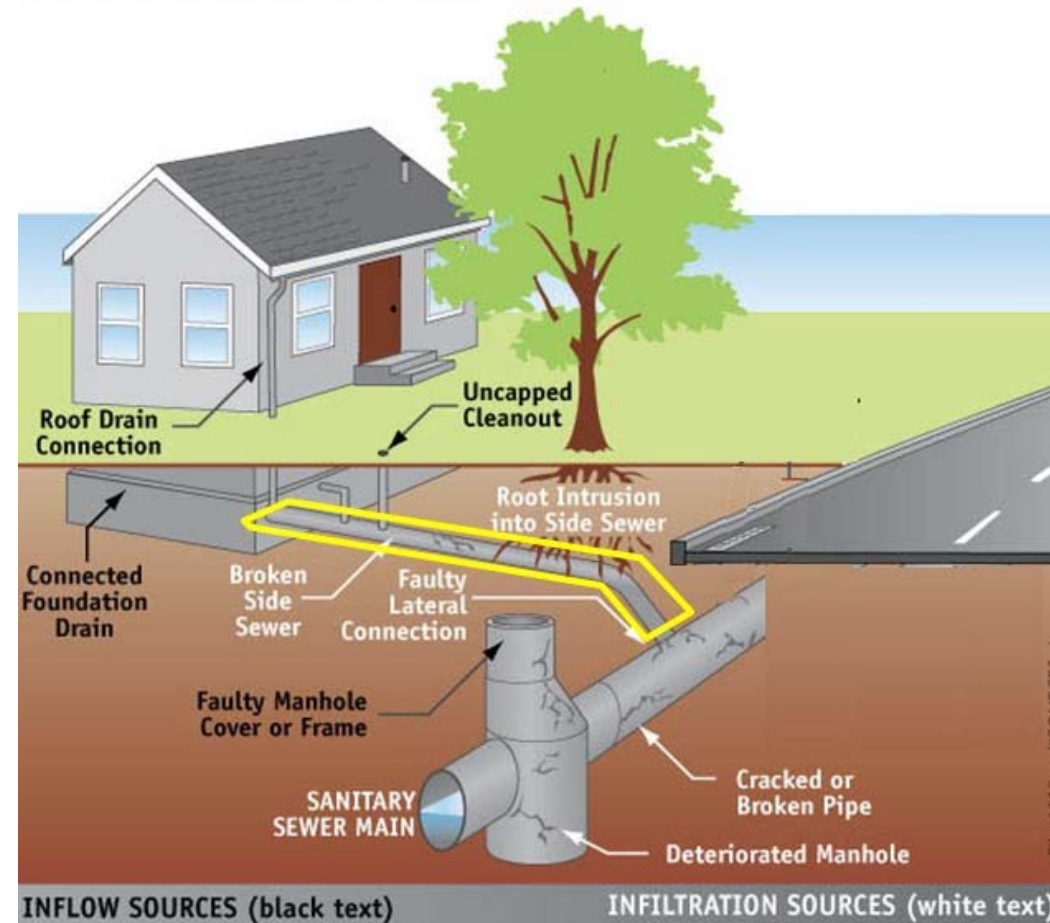
- Experiencing sewer backups
- Determine the condition of my lateral:
 - Contact a plumber to perform a television survey (CCTV)
 - City will provide a list of preferred plumbers for consideration
 - Will need to be performed in time to support replacement decision



Source: <http://www.tttechnologies.com/pipe-bursting-bridgeport-utility-solutions-goes-distance/>

WHAT ARE THE COST SAVINGS BY REPLACING NOW?

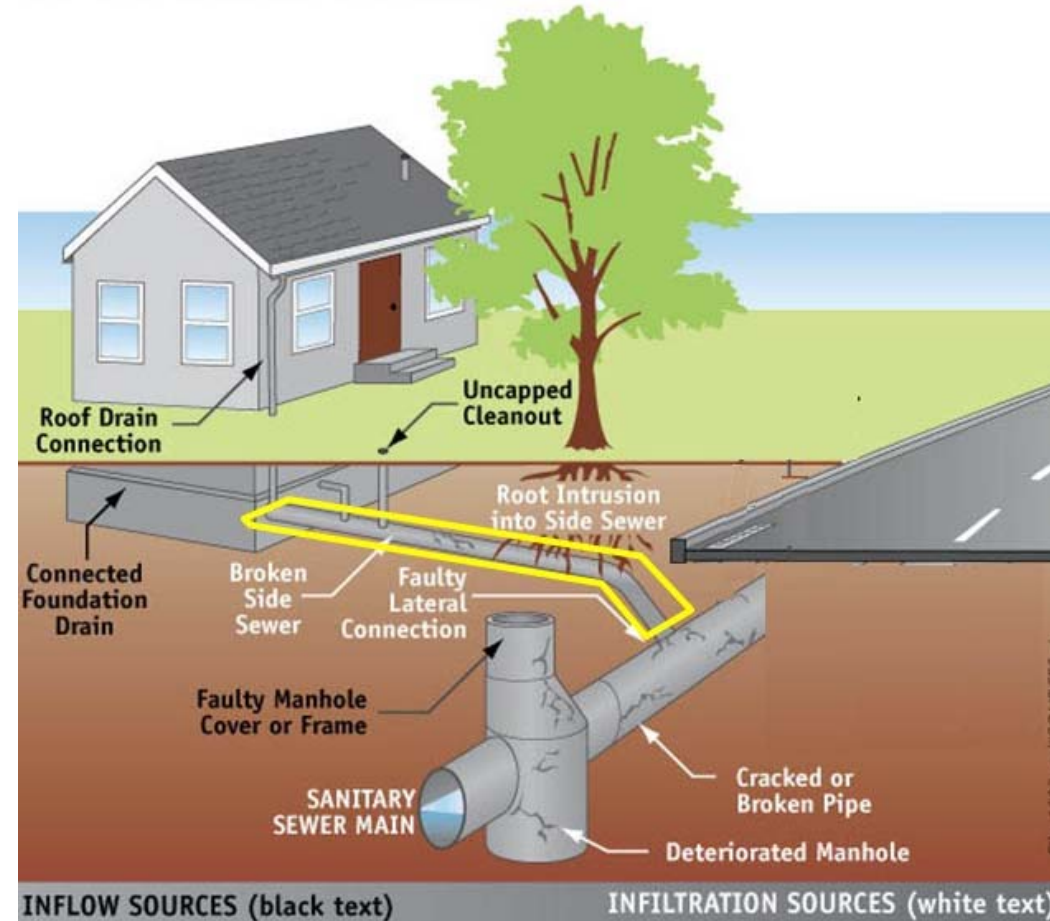
- Toughest work already done
 - Deepest excavation
 - Mobilization cost
 - Encroachment permit waved (over \$600)
- Pricing included with Contractor bid price for lateral replacement



Source: <http://www.tttechnologies.com/pipe-bursting-bridgeport-utility-solutions-goes-distance/>

EX: 42-FT TRENCHLESS LATERAL REPLACEMENT COST

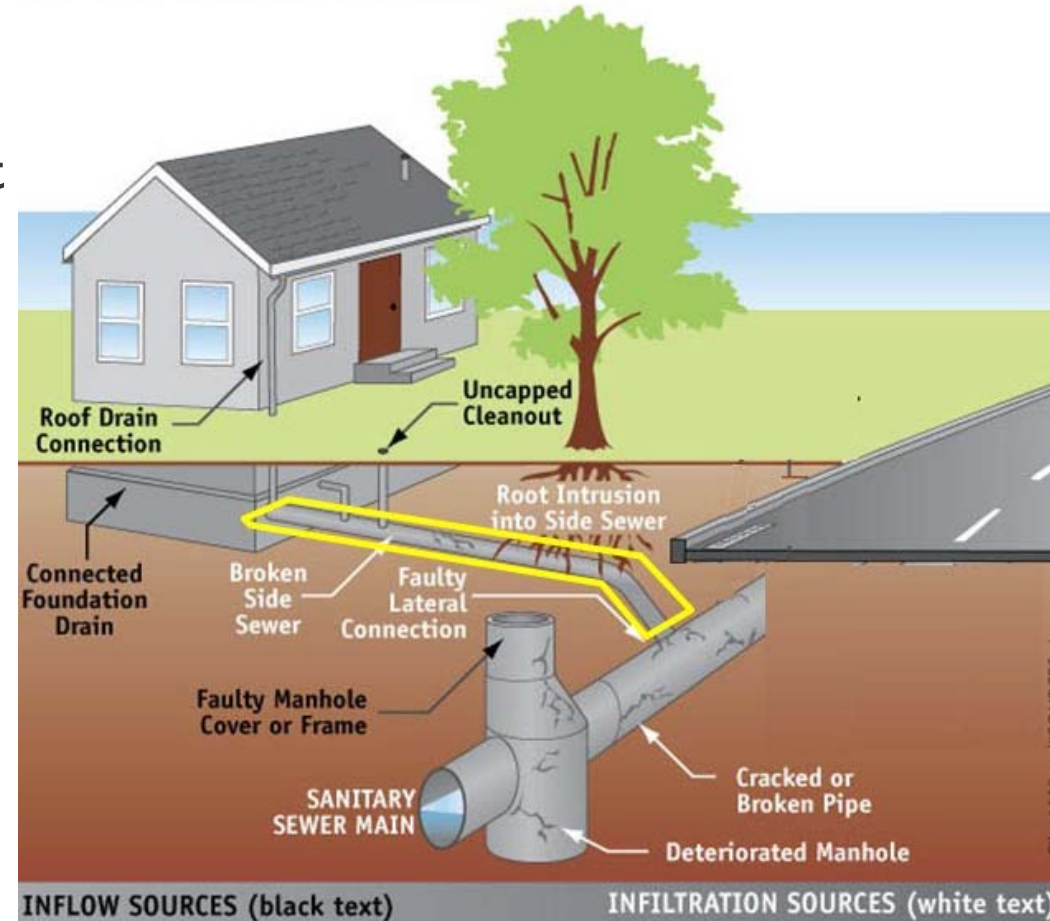
- Typical Plumber Cost: \geq \$6,000
 - Includes \$600 encroachment permit fee
- Pacific Trenchless Pricing:
 - Greater of Minimum base cost or Unit costs
 - Minimum base cost: \$3,755 (1 cleanout)
 - Unit costs:
 - **Pipe burst:** 42-ft \times \$75/ft = \$3,150
 - \$3,150 + \$555 (1 cleanout) = \$3,705
- Pacific Trenchless Price: \$3,755
 - ~ 40% cost savings



Source: <http://www.tttechnologies.com/pipe-bursting-bridgeport-utility-solutions-goes-distance/>

HOW WOULD THE LATERAL REPLACEMENT CONTRACT WORK?

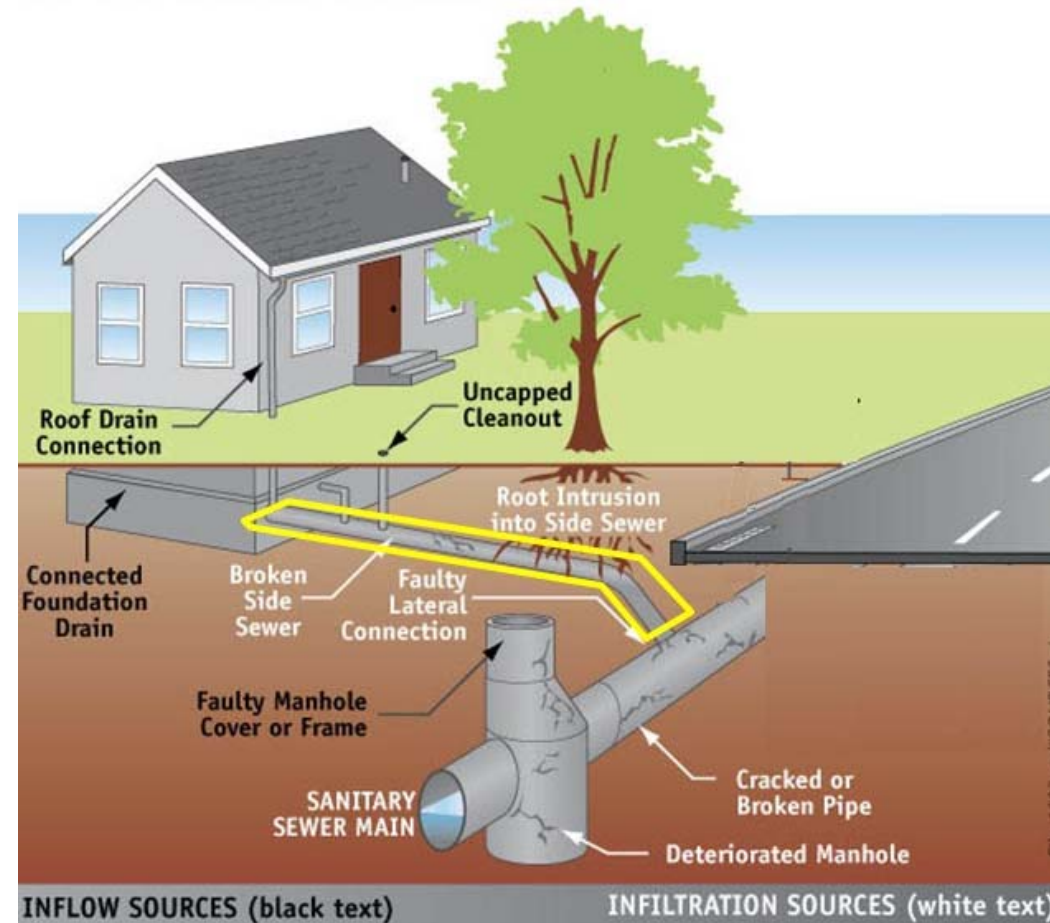
- Pricing established as part of the Project
- Resident contacts Pacific Trenchless directly:
 - City will provide contact information
- If Resident decides to replace lateral:
 - Signs contract with Pacific Trenchless
 - Pacific Trenchless obtains resident signature for encroachment permit & gives to City
 - New lateral installed; City inspects.



Source: <http://www.tttechnologies.com/pipe-bursting-bridgeport-utility-solutions-goes-distance/>

WHEN DO I NEED TO DECIDE TO REPLACE MY LATERAL?

- Contractor will need a signed contract one to two weeks prior to being on your street
- If you are considering a lateral inspection (CCTV), you will need the results to inform your decision in time to notify Contractor



Source: <http://www.tttechnologies.com/pipe-bursting-bridgeport-utility-solutions-goes-distance/>

PROJECT SCHEDULE

- Pre-Qualification: October 2017 to December 2017
- Bid Period: December 2017 to February 5th 2018
 - Bid Opening: February 5th 2018
 - City Council Meeting: February 26th 2018
- Project duration: April 2018 to September/October 2018
- Preconstruction meeting 2 April
 - City will receive active construction schedule
- Project letter will be mailed to residents the week of March 5th
 - All Project details, including optional lateral replacement
- Door Hangers will be distributed 3 weeks prior to when the Contractor will be constructing on residents' streets to give residents a heads up

PROJECT RESOURCES

- Project informational link on City website will be available within the next two weeks
- Link will include:
 - City's list of preferred lateral TV survey (CCTV) providers
 - Copy of letter to be sent out to all residents informing them about the Project
 - Project Map
 - Updated Project Schedule
 - Inform residents of approximate timing for when Contractor will be on their street

QUESTIONS?

Project questions: Nelson Schlater, EKI, City's Consultant Construction Manager, 650-292-9100, nschlater@ekiconsult.com

Lateral questions, not contractual: Brian Martinez, City of Pacifica, Collection System Manager, 650-738-4660, martinezb@ci.pacifica.ca.us

Lateral questions, contractual: David King, Pacific Trenchless, General Contractor, Project Manager 415-748-0773, david.king.pti@gmail.com