



HAWAIIAN HOME LANDS
HAWAIIAN HOMES COMMISSION
DEPARTMENT OF HAWAIIAN HOME LANDS

Papakolea Sewer System Update

LAND DEVELOPMENT DIVISION
Item E-1 Workshop
Monday, July 15, 2019

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Papakolea, Kewalo and Kalawahine

PAPAKOLEA

KALAWAHINE

KEWALO

2

Papakolea Sewer Improvements

Purpose

- Repair and/or replace damaged and undersized pipes
- To upgrade sewer improvements and access which comply with City and County Standards



Before



During

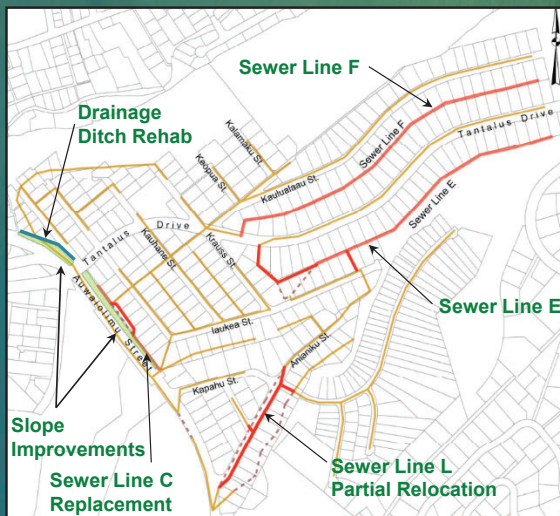


After

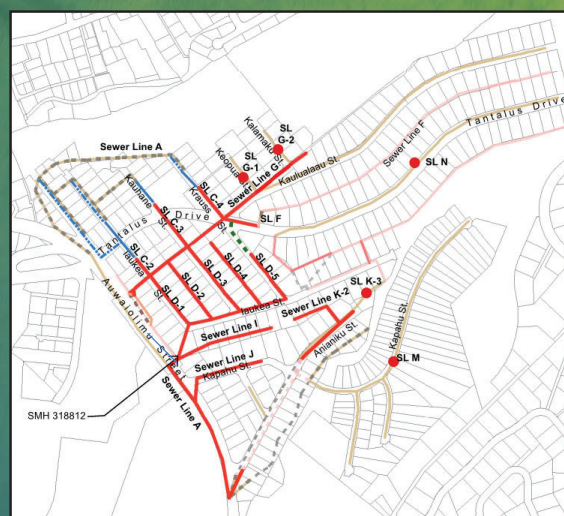
Papakolea Sewer Improvements

Phase 1

Phase 2



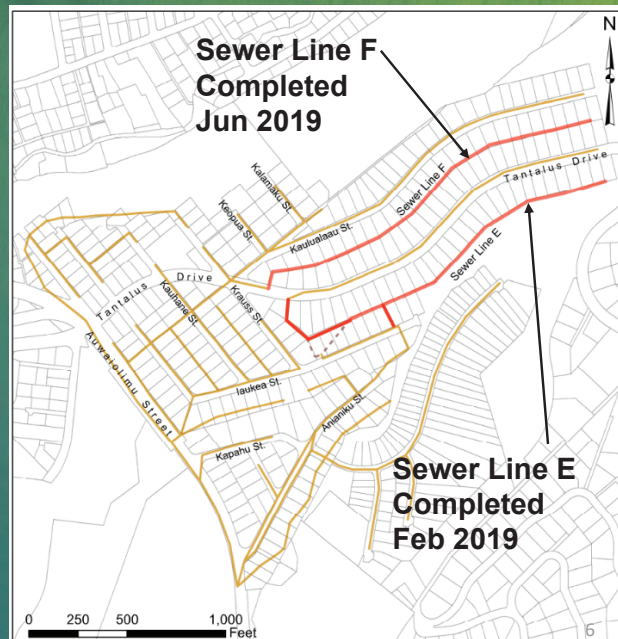
Total cost: \$13 Million



Total est. cost: \$45 Million

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- 65 Lots
- 4,200 Linear feet
- 28 New sewer manholes
- Cost: \$5.5 Million

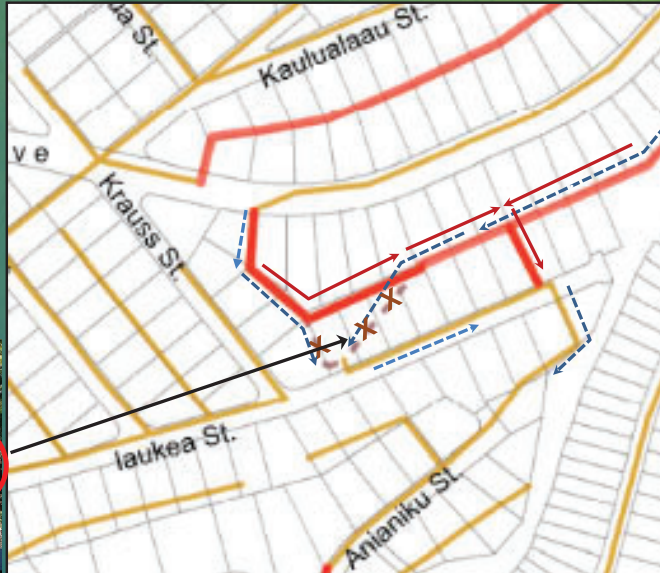


Papakolea Sewer Improvements

Sewer Line E

Sewer Line E:

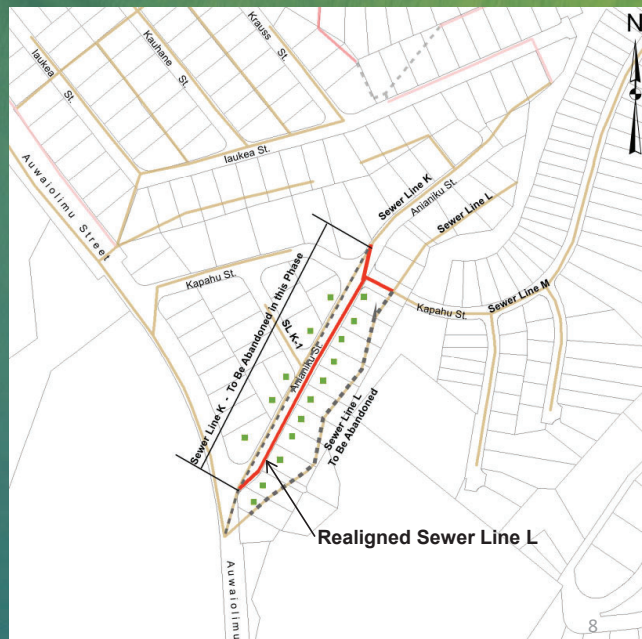
- Realigned and rerouted sewerline and manhole to avoid bisecting properties



Papakolea Sewer Improvements

Phase 1 – Sewer Line L Realignment

- 900 LF, 10-inch pipe
- 6 New sewer manholes
- 16 Lateral reconnections
- Abandon existing Sewerline K and L in place
- Completion: September 2019
- Cost: \$1.3 Million



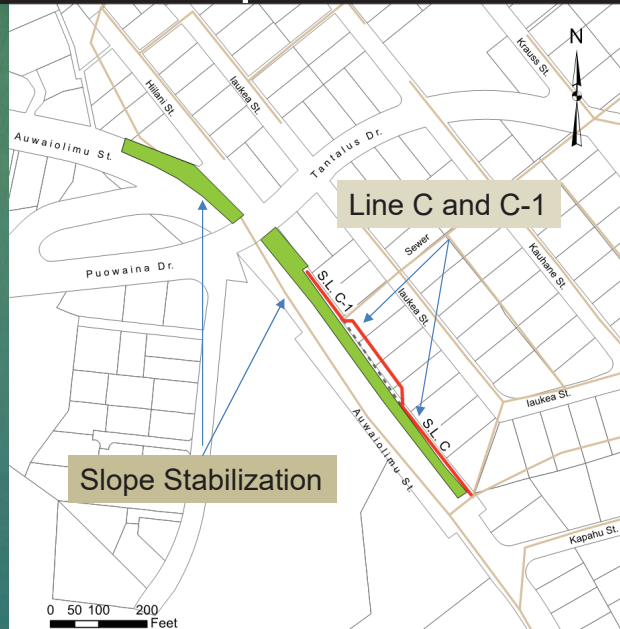
Papakolea Sewer Improvements Slope Stabilization and Sewer Line C & C-1 Replacement

Slope Stabilization

- 34,000 square feet
- Completed June 2018
- Cost: \$4 Million

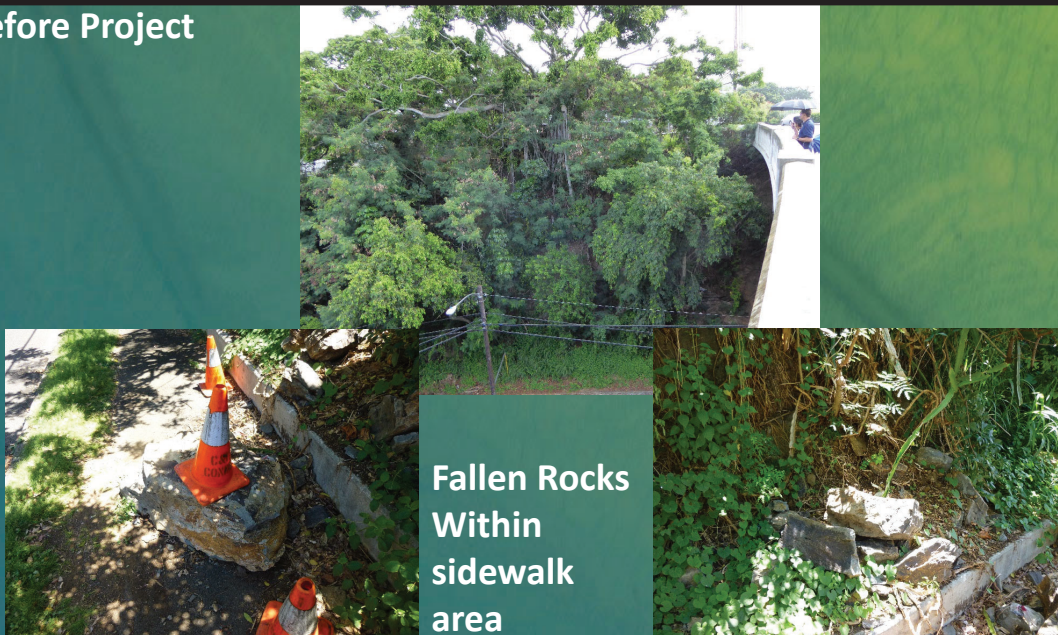
Sewer Line C & C-1

- Est. Completion August 2019
- 520 Linear feet, 8" pipe
- 5 New sewer manholes
- Cost: \$0.7 Million



Papakolea Sewer Improvements Slope Stabilization

Before Project



Fallen Rocks
Within
sidewalk
area

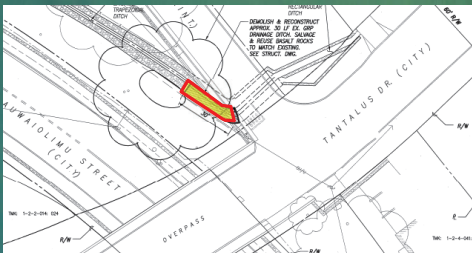
Papakolea Sewer Improvements Slope Stabilization

After



Drainage Ditch Rehabilitation

Original Scope - 30 LF



After



Before

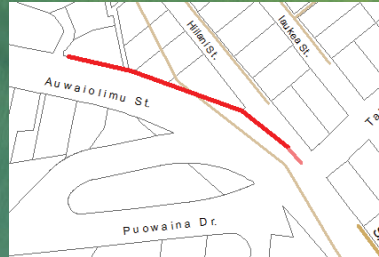


During

12

Drainage Ditch Rehabilitation

Ditch is a historical architectural feature, and required restoration only.



Ditch Rehabilitation



Cost of 350 linear feet of drainage improvements: \$0.3 Million

Future maintenance by DHHL



Papakolea Sewer Improvements Sewer Easement Conditions

- Lessees shall allow contractors access to repair or replace sewerlines.
- Lessees shall not block, build nor plant trees over sewerline and other improvements.
- Any improvements over the sewerline will NOT be replaced by the City or DHHL, should repair work be required.
- Sewer lateral maintenance, including blockage remediation is the responsibility of the Lessee.
- Hawaiian Homes Commission approval required to amend approximately 46 leases with new sewer easements.

Papakolea Sewer Improvements Phase 2

- Initiate engineering designs in 2019
- Estimated Start of Construction 2022, subject to funding
- 12,000+ Linear feet, 8-in pipe sewer manholes & laterals
- Evaluate phasing and disposal options for Sewer Line A
- Cost: Approx \$45 million

