CHARLOTTE WATER | CITY OF CHARLOTTE

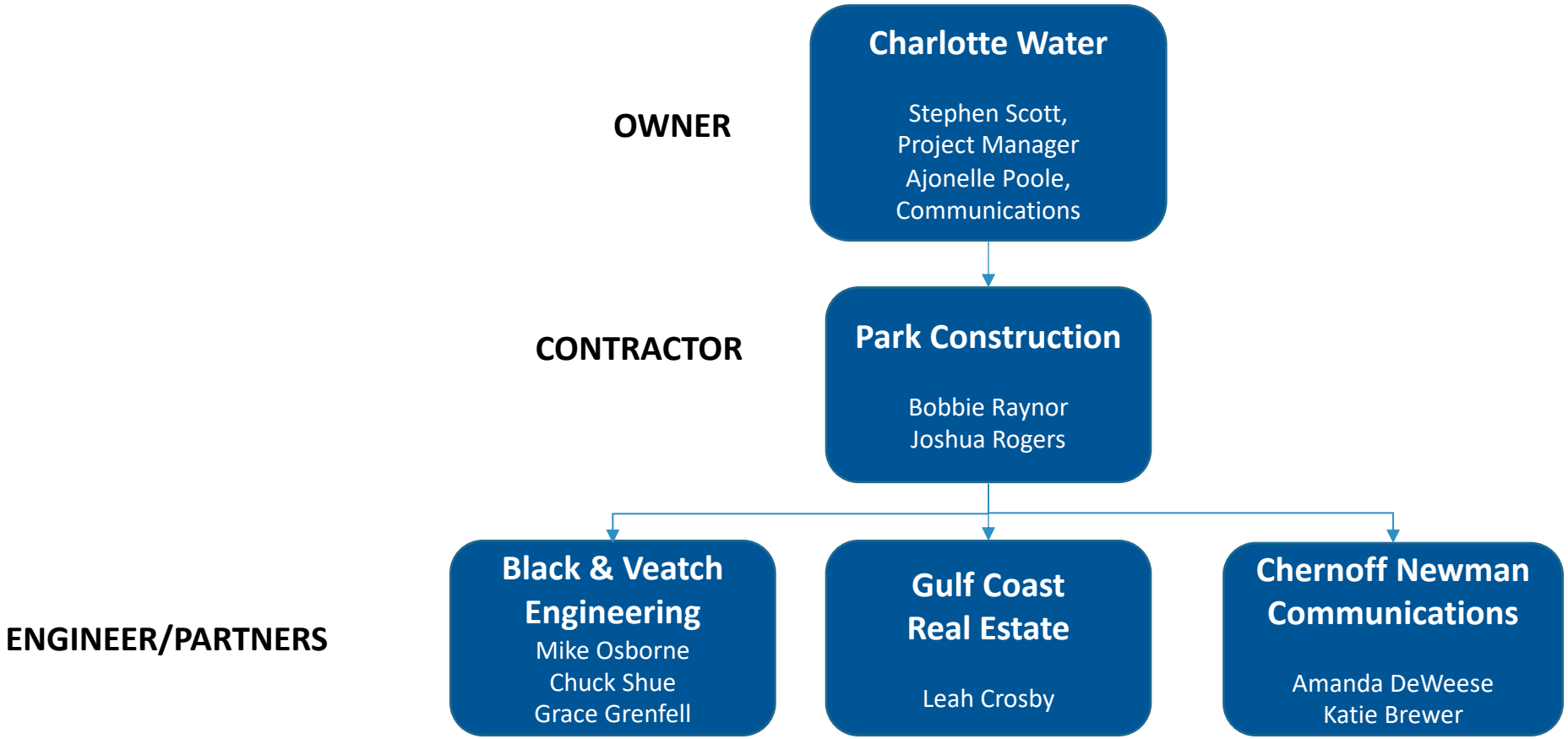
Little Hope Creek Wastewater Improvement Project

VIRTUAL PUBLIC MEETING: FEBRUARY 16, 2022

Agenda

- Welcome
- Introduce Project Team
- Project Overview
- Progress
- Easement Acquisitions
- Construction Details/Timeline
- Q&A

Project Team



Project Overview

- Current wastewater system in the Little Hope Creek basin was primarily built in the 1950s to 1960s and is in dire need of repair.
- Unusually high amounts of groundwater and stormwater entering the existing pipeline.
- History of sanitary system overflows in the area.
- With development in the area, the capacity of the system must be increased.

Current Condition

Project Goals

- Improve the wastewater system worn by age, high use, and natural and man-made obstructions.
- Increase wastewater capacity to meet current and future needs.
- Reduce the risk of sewer overflows.
- Protect the water quality in Little Hope Creek.

Project Overview

- Approximately 33,000 linear feet of wastewater pipe
- Existing wastewater pipeline ranges from 8-inch to 24-inch diameter; to be replaced with 12-inch to 36-inch pipe
- Project is being constructed in 3 phases
  - Phase 1 – Tyvola Road, edge of Marion Diehl to Seneca Place
  - Phase 2 – Follows Little Hope Creek from Seneca Place to Hartford Ave at Belton Street
  - Phase 3 – Along three Little Hope Creek tributaries in Madison Park and Collingwood

Project Map

Phase 1

Project Map

Phase 2

Project Map

Phase 3

Project Progress | Phase 1

What's been done to date?

- Pipe installation from Tyvola Road up to Valley Stream Road and E. Cortland Road.
  - Estimated completion: March
- Some restoration activities in areas where pipe installation is complete
- Partial activation of the wastewater line

Project Progress | Phase 1

Project Progress | Phase 2

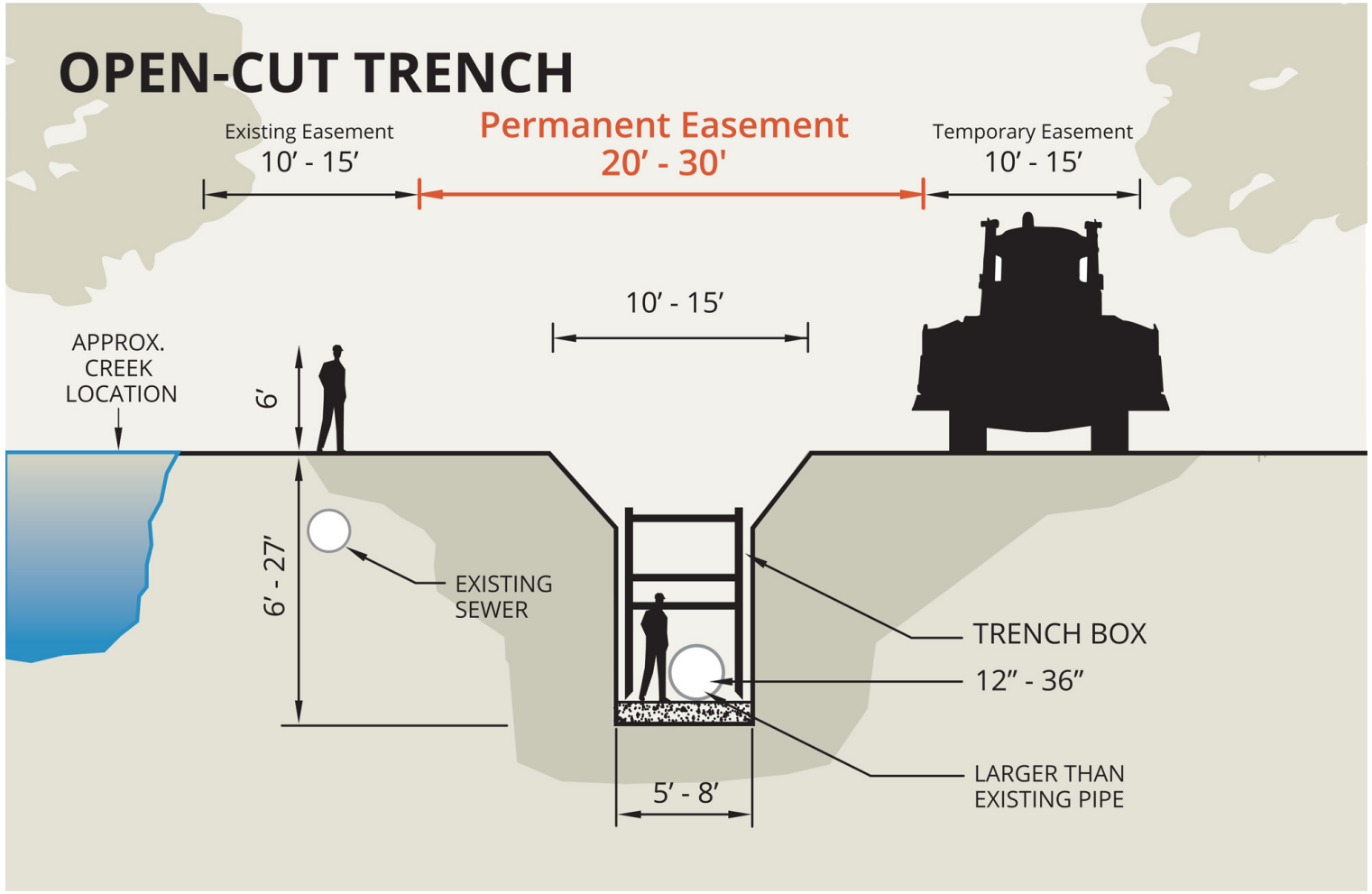
What's been done to date?

- Land surveying and underground utility markings
- Flow metering and soil sampling
- Geotechnical investigations
- Video inspections
- Design of new pipeline
- Easement acquisitions → near completion

Easement Acquisitions

- Properties along the route that will be impacted have been contacted by real estate representatives with Gulf Coast
- Phase 2 easement negotiations are nearing completion
- Phase 3 easement negotiations ongoing and expected to be completed by end of 2023

Typical Easement



Construction

Construction Timeline

- Phase 1 construction: under way with expected completion in March 2022
- Phase 2 construction: starting March 2022 with expected completion in 24 months
- Phase 3 construction: design in progress; construction starting late 2023-early 2024
- Schedules are subject to change, due to weather and other conditions

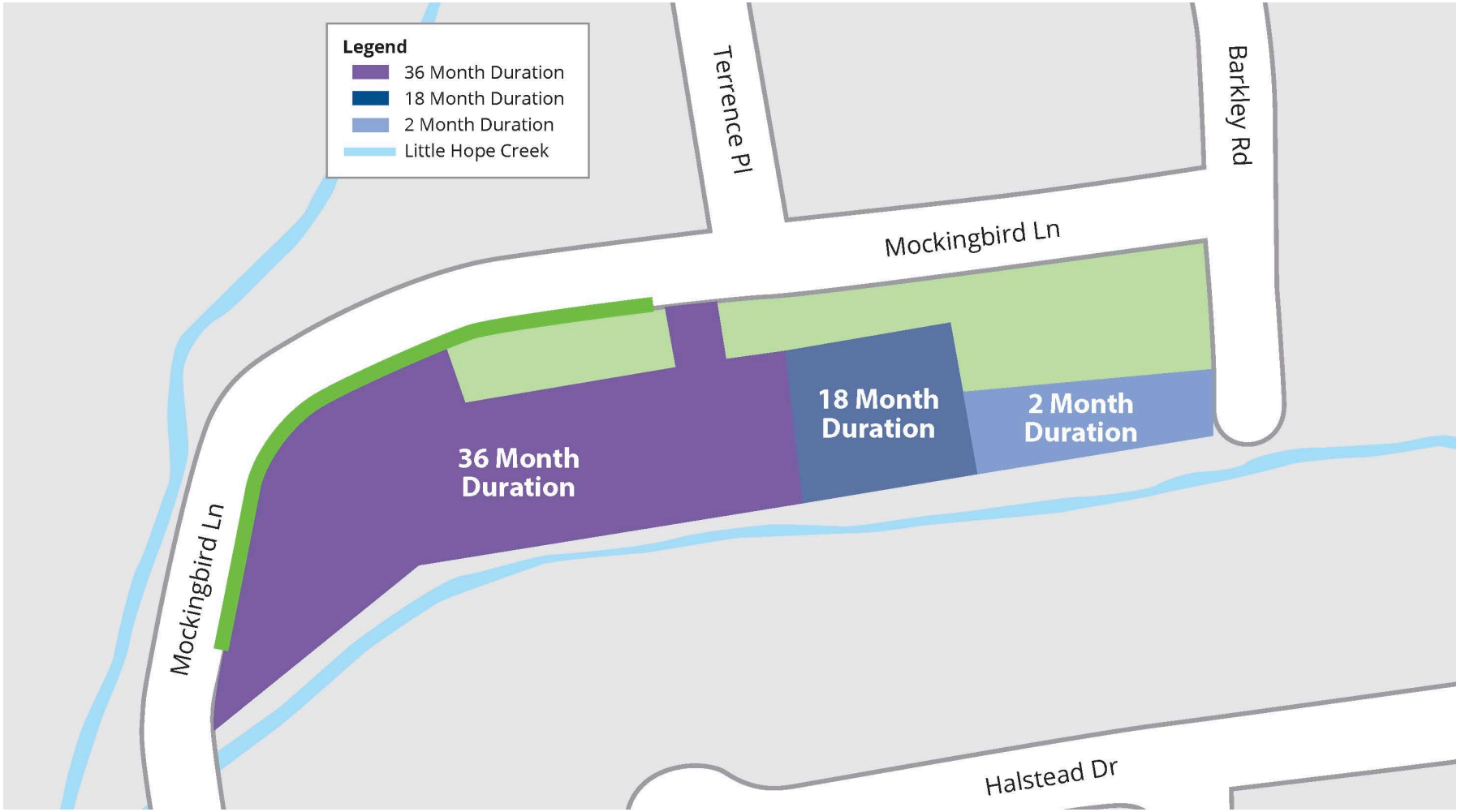
Main Project Construction Activities

- Clearing and trimming within easements
- Moving equipment on site
- Pipe delivery and storage
- Establishing a safe work zone
- Traffic control measures (as needed)
- Trench digging, placing pipe and back filling
- Blasting (as needed)
- Construction traffic within the easements

Clearing Activities

- Starting in March, crews will start clearing activities within the easements
- Process will take several months to work up the alignment
- Includes:
  - Marking property lines using survey stakes, markers and ribbons
  - Removing trees, bushes and shrubs
  - Removing fences and other structures in easements

Material Staging and Storage Area



What is Blasting?

- Removal of underground rock by use of small controlled blasting
- Blasting is a standard construction procedure
- Seismograph monitors will record all vibrations to ensure they are within specifications
- Impacted property owners will have opportunity for pre- and post-blast surveys

Mobilization & Preparation

MOBILIZATION AND SITE PREPARATION

Silt fencing prevents soil /sediment from washing away.

CONSTRUCTION ZONE

Construction zones will be large enough for excavators and dump trucks to move.

Active Construction

PIPE CONSTRUCTION

24-inch wastewater pipe project under a street.

Manholes vary in size depending on the amount of wastewater a community creates.

Construction & Restoration

DURING CONSTRUCTION/AFTER RESTORATION

Charlotte Country Club Golf Course during construction and immediately following restoration.

Restoration

Next Steps

- Complete pipe installation and restoration activities for phase 1
- Finalize easement acquisitions for phase 2
- Pre-blast surveys for phase 2
- Mobilization and construction for phase 2 – March

Stay Connected

- Visit project webpage: charlottenc.gov/littlehopecreek
- Project contact: Stephen Scott
  - Stephen Scott, Charlotte Water
    Stephen.Scott@charlottenc.gov, 980-219-9488
- Mailers and door hangers
- Text alert notifications
  - Text littlehopecreek to 844-753-0614
- Neighborhood/homeowners' associations
- Nextdoor

Q&A Session