



King County

South Magnolia CSO Control Project



Community Meeting

February 15, 2012



Meeting Purpose

- Provide project update
- Address community questions and concerns about the new underground storage tank and associated odor control/electrical facilities
- Provide next steps and opportunities for public participation



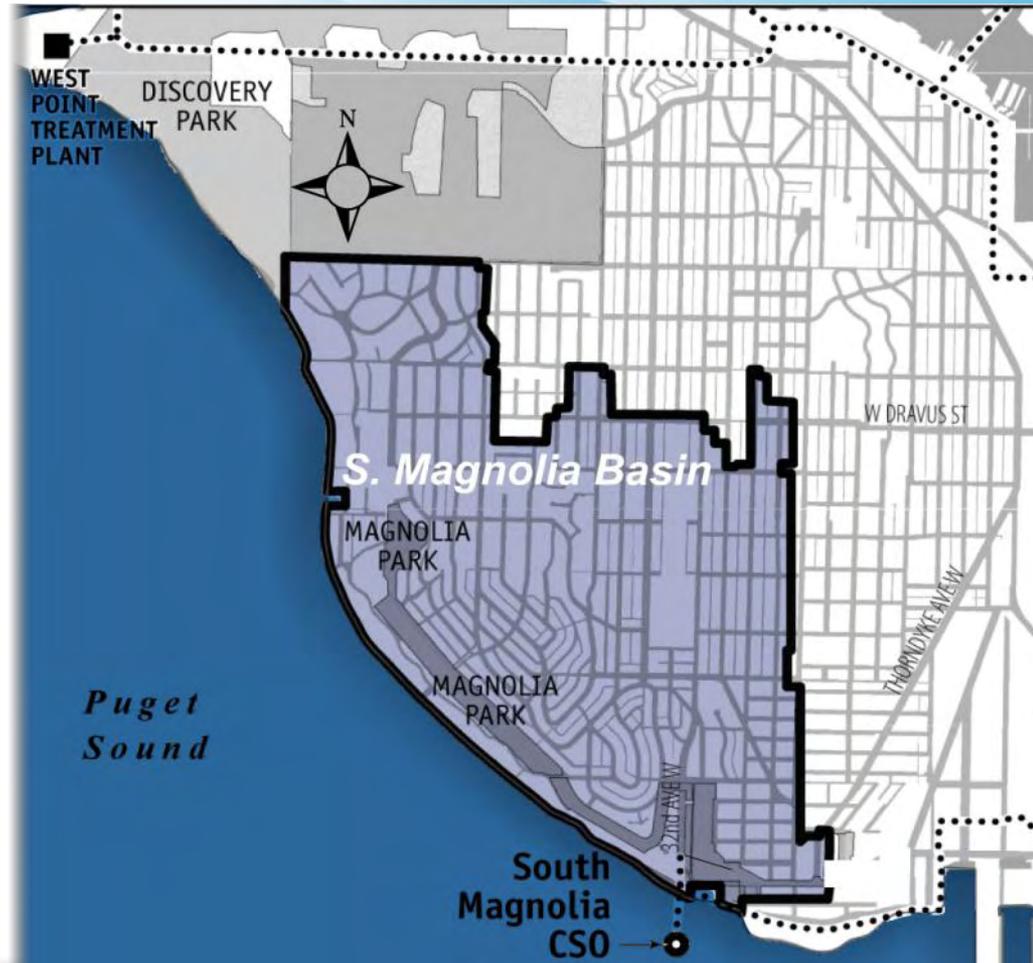
Agenda

- Team introduction
- Project update
- Project elements
 - Conveyance and selected alignment
 - System operation
- Underground storage tank
 - Operations and design
 - Site configuration
 - Construction overview
- Working with the community
- Next steps



Why the Project is Needed

- From January-November 2011, 21 CSOs occurred in South Magnolia
- Current standards administered by Ecology allow no more than one untreated event per year on average
- Compliance deadlines are defined in the West Point TP NPDES permit



Project Update

- Summer 2011
 - Final Facility Plan Approved
 - Design Phase Begins
- Summer / Fall 2011
 - Announce Tank Location
 - Geotechnical Field Investigations
- Early 2012
 - Identify pipeline alignment
 - Determine configuration of the underground storage tank and odor control/electrical facility
 - Continue easement acquisition process
- Final Design complete December 2012



Technical Information Session

January 21, 2012

- Geotechnical investigation findings
- Preferred pipeline alignment
- How the pipeline will be constructed



Visit the project website for PowerPoint presentation, meeting materials and meeting summary



Overview of Design Elements

- Underground storage tank
- Gravity sewer pipeline
- Diversion structure



How We Evaluated Pipeline Alignments

- Geotechnical conditions
- Pipeline installation constraints
- Conveyance system hydraulics and operations
- Other considerations:
 - Protecting slope stability
 - Avoiding bridge piers and other structures

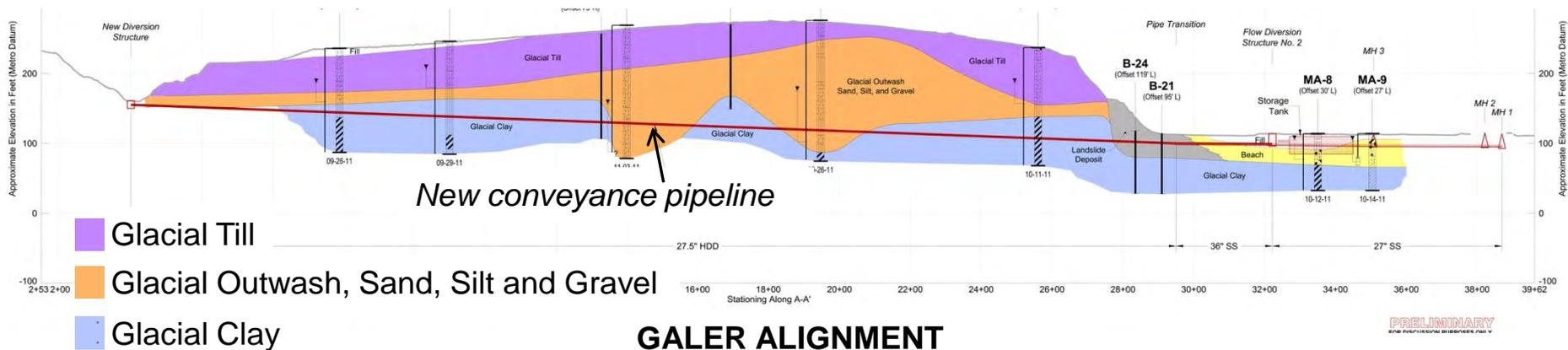


Alignments along West Galer Street and West Eaton Street were evaluated



Results of Preliminary Geotechnical Investigation

- Glacially consolidated materials
- Typical of soils in region
- Good construction soils
- Many successful projects

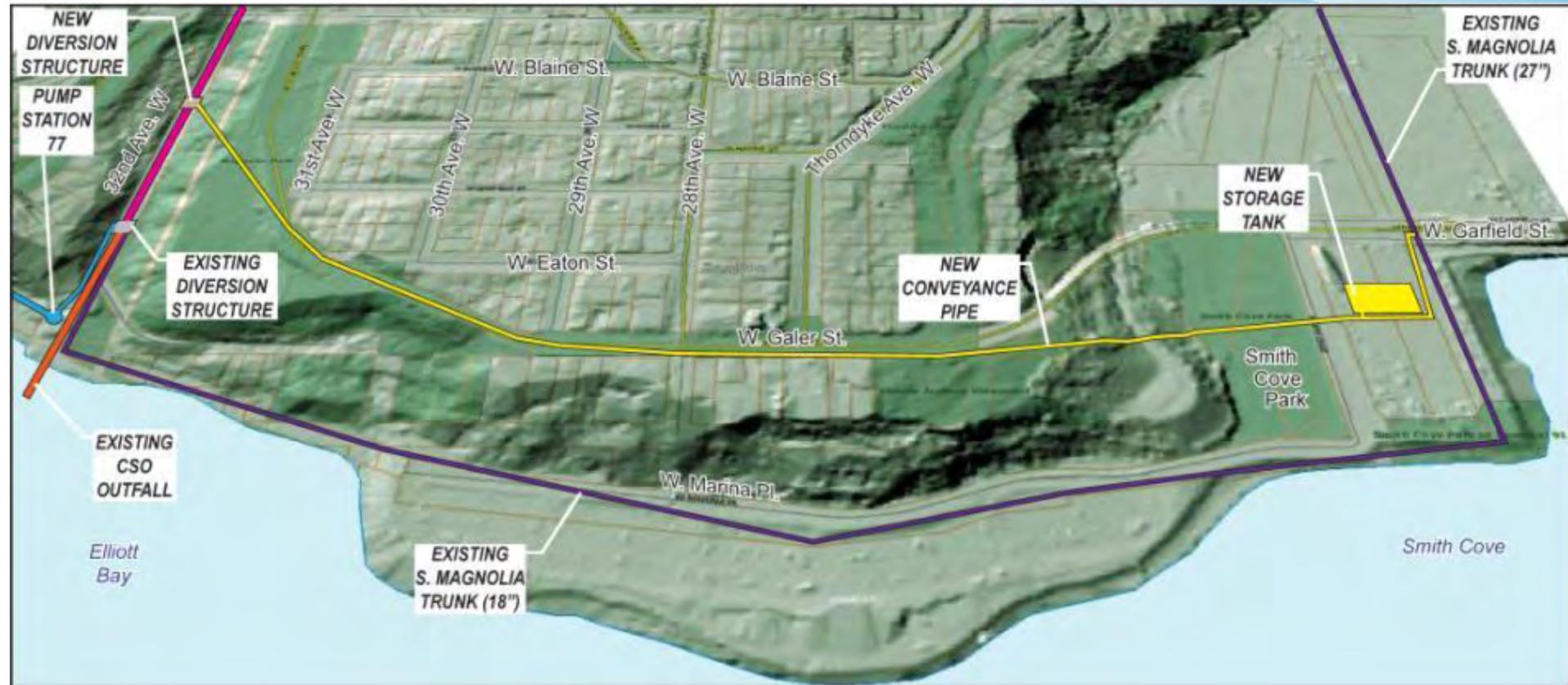


Galer Alignment Selected

- New diversion structure alignment optimal
- Most favorable hydraulics
- Best pipeline constructability



System Operation



Trenchless Technology for Pipeline Installation

- Used for deep underground pipeline installations to avoid open trench excavation at the surface
- Numerous trenchless installation technologies were assessed
- Horizontal Directional Drilling (HDD) is preferred method
 - Most economical
 - No intermediate shafts needed
 - Conducive method for required pipe size



King County's Tank Location: Terminal 91 West Yard

- Endpoint for conveyance
- Pipeline construction staging will occur here



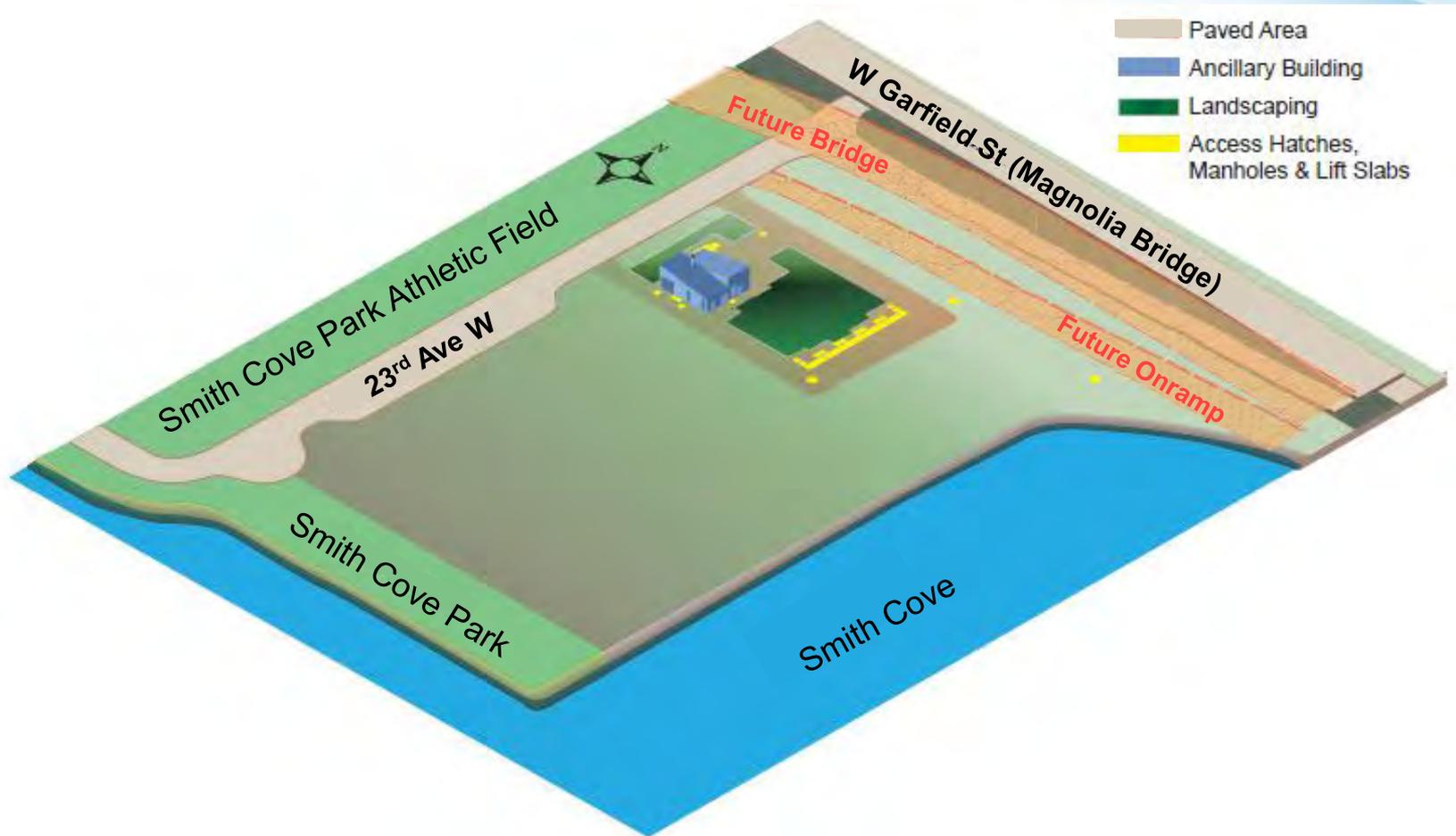
Storage Tank: What have we heard from you?

Identified issues and concerns:

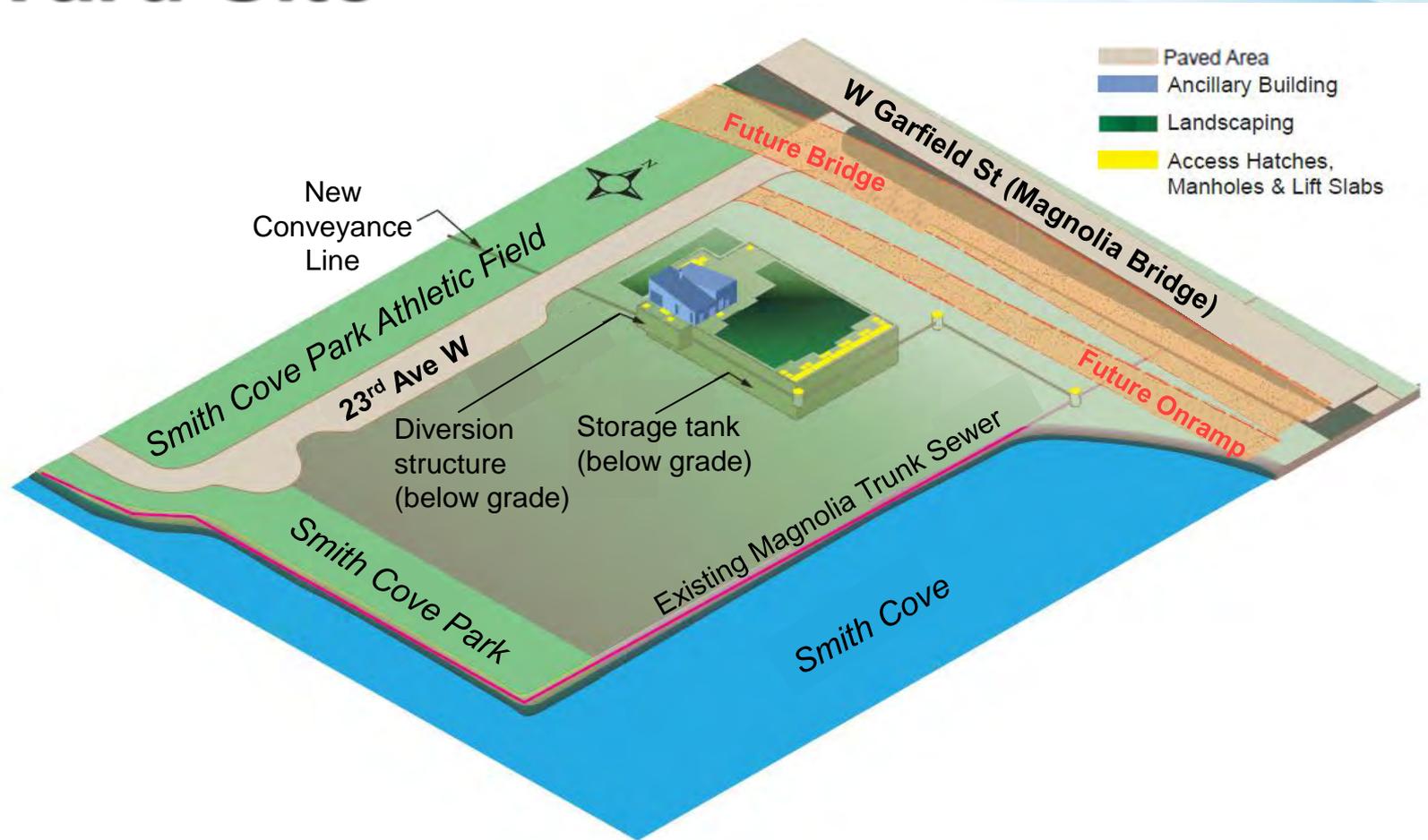
- Design for range of future uses
- Operations/odor control
- How work will affect the Smith Cove athletic field
- Access during construction
- Noise, dust and glare during construction



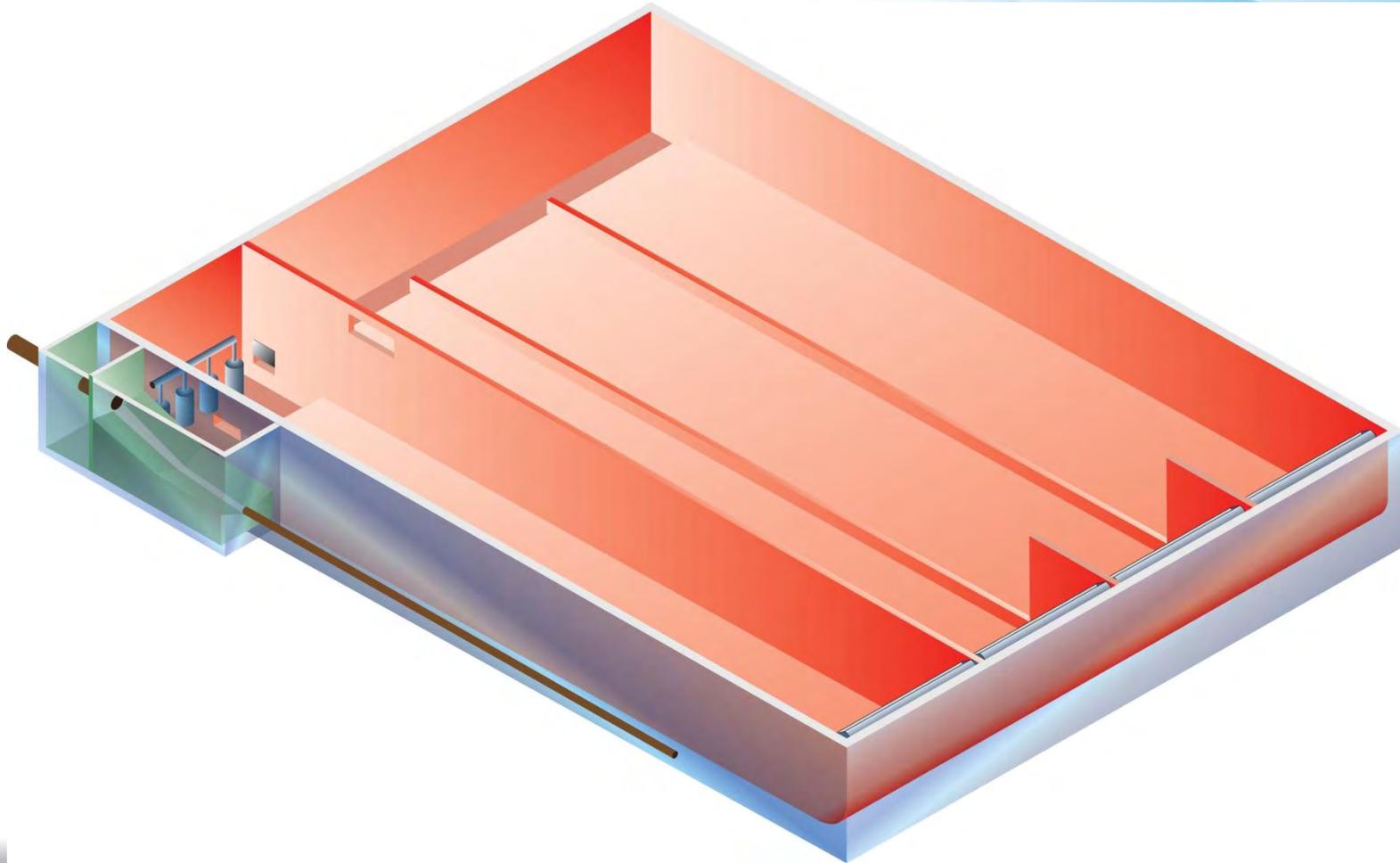
Facility Configuration at the West Yard Site



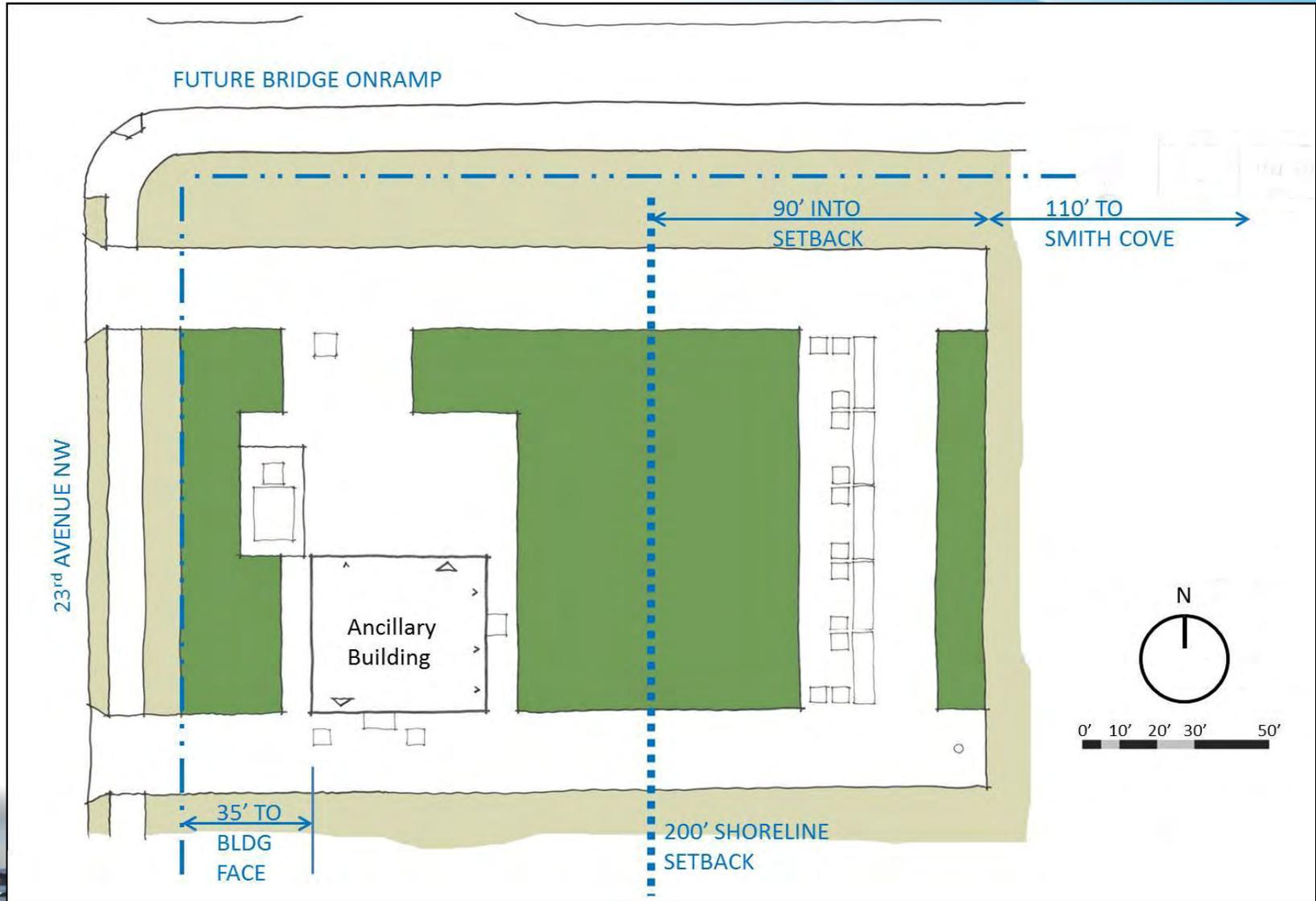
Facility Configuration at the West Yard Site



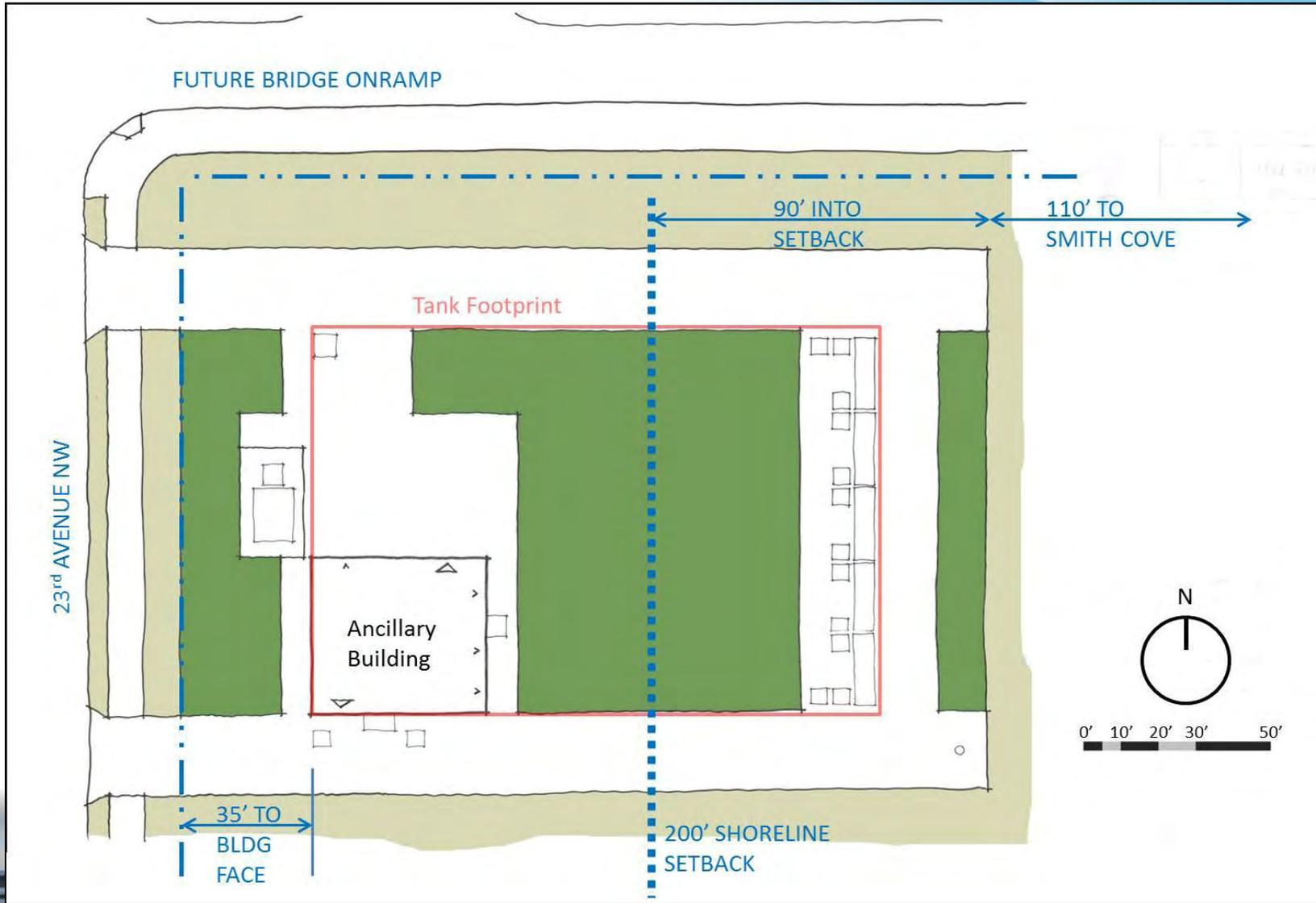
Storage Tank Operations



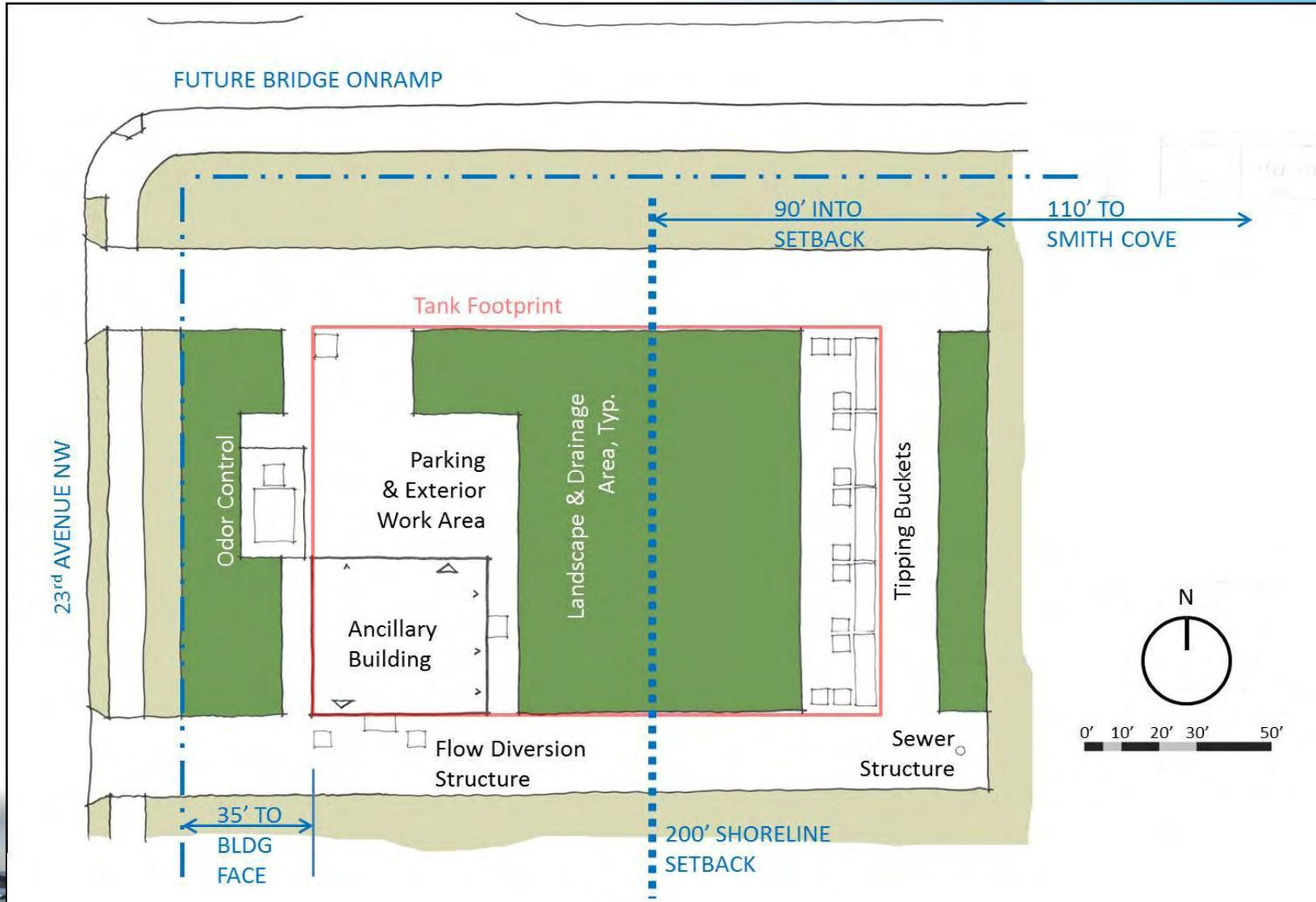
Site Configuration at Storage Facility



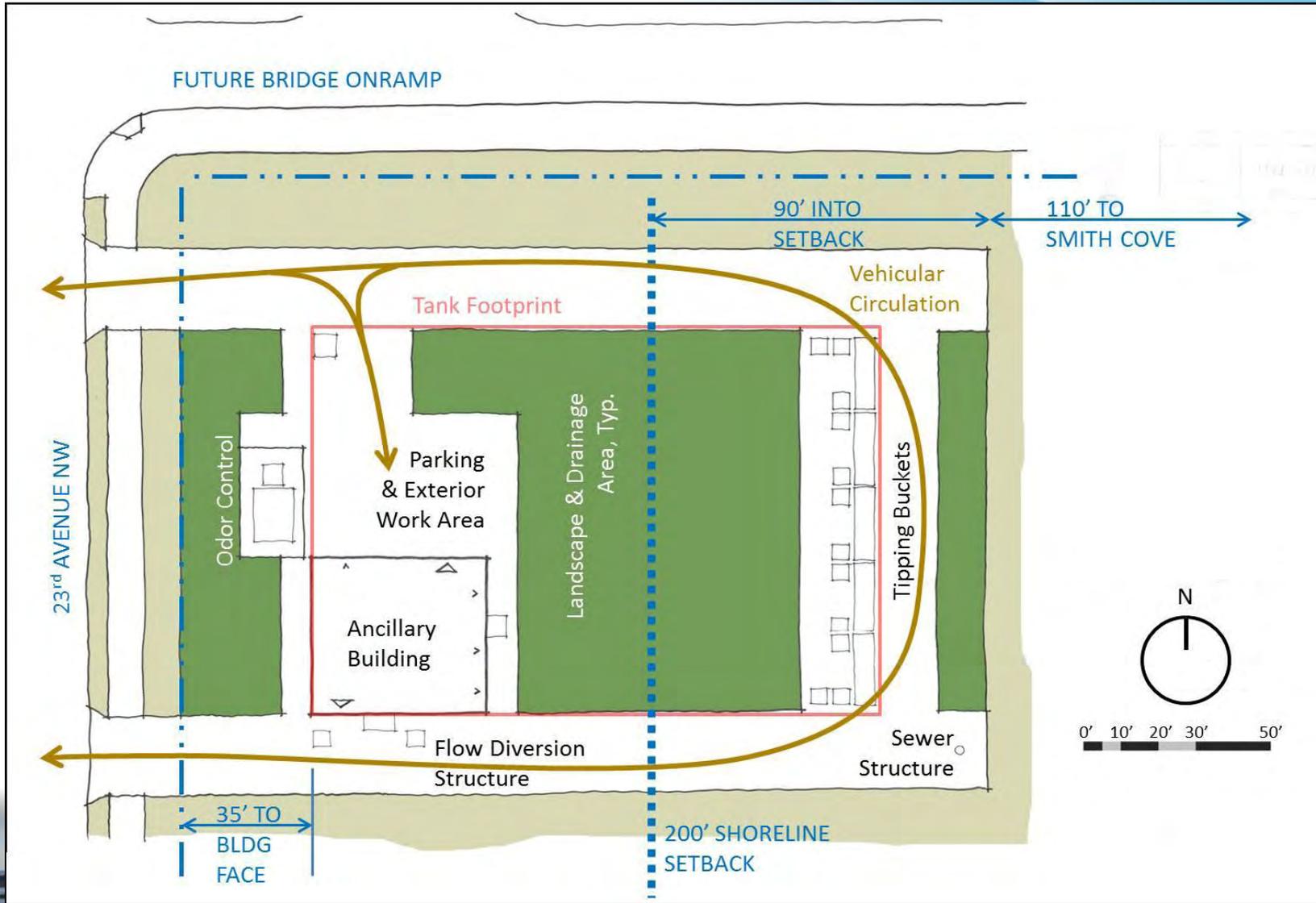
Site Configuration at Storage Facility



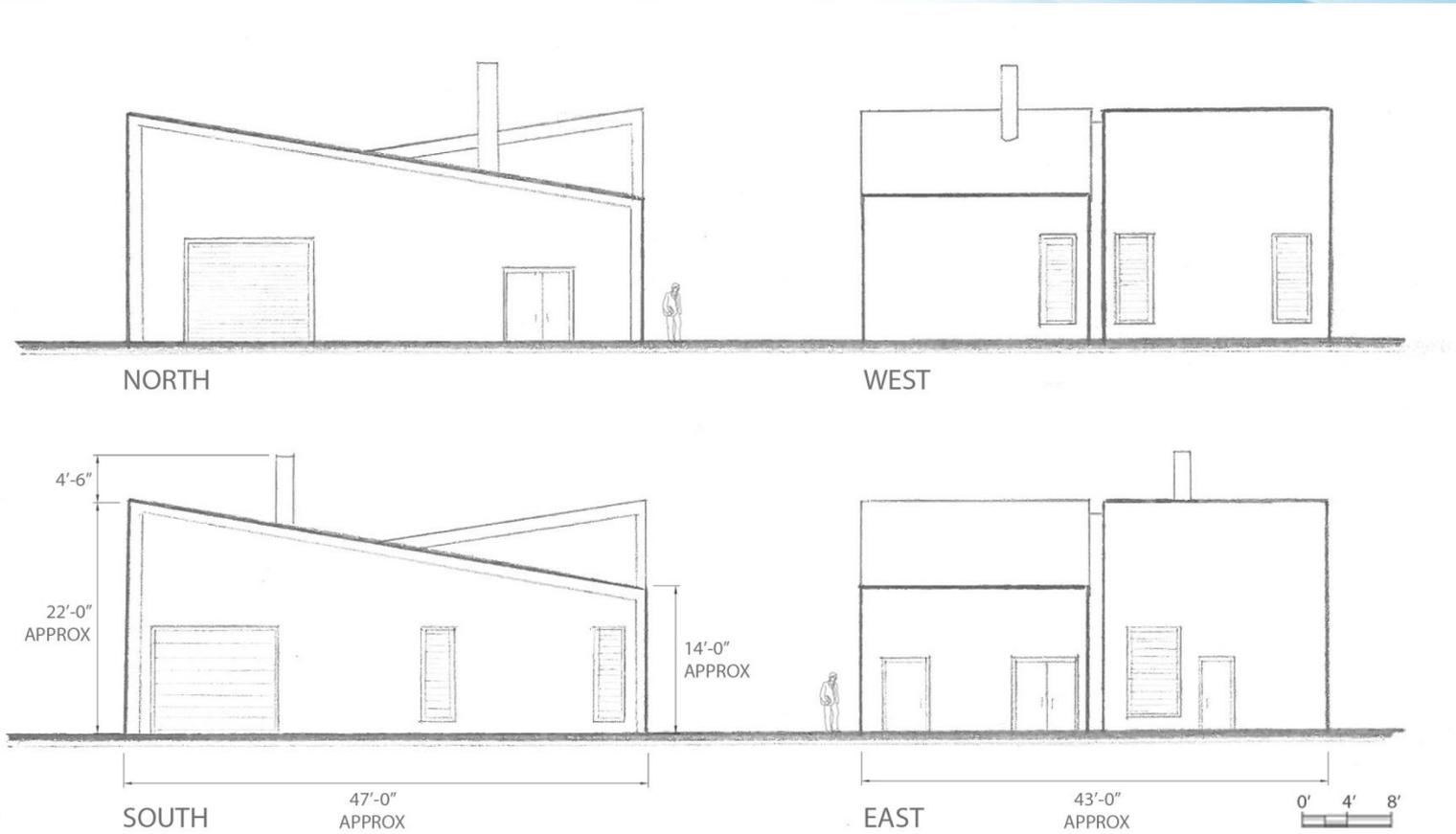
Site Configuration at Storage Facility



Site Configuration at Storage Facility



Preliminary Facility Design



Construction Overview

- Construction duration
 - Approx. 2-1/2 years
- Construction phasing
 - Conveyance constructed first
 - Majority of activity on West Yard site
 - Diversion structure on 32nd Ave W
 - Shorter duration than storage facility
 - Storage facility construction follows conveyance



23rd Avenue West Staging Areas Conveyance



23rd Avenue West Staging Areas

Storage tank construction



Major Elements of Construction

Conveyance

- HDD work on West Yard, Smith Cove athletic field, and 32nd Ave W
- Diversion structure work on 32nd Ave W
- Site restoration

Storage tank

- Shoring and excavation
- Concrete tank construction
- Building and equipment installation
- Site restoration



King County Works with Communities on Construction Issues

During design - Contract specs and permit conditions are established to limit impacts

Before construction - Community is given an overview of construction work and schedule

During construction - Community relations staff is on-call and works with construction team and contractor to address issues



Keeping the Community Up-to-Date

- Web updates
- Door hangers
- Newsletters
- Press releases
- Emails and mailings
- Community meetings
- Community group briefings

North Beach CSO Control Project



NEWSLETTER - JANUARY 2012

King County's Design Team Shares Preliminary Design of the North Beach CSO Control Project

A multidisciplinary design team has been working hard to meet deadlines set by Washington State Department of Ecology for design of the North Beach CSO Control Project. Ecology requires the final design to be submitted by December 2012.

Neighbors and park users may have received notice about field investigations or have seen crews in the project area on Northwest Blue Ridge Drive and Trilon Drive Northwest. These investigations provide the project team with important data to inform the location and configuration of project elements and to help plan for construction. Investigations have included:

- Utility surveys to inform the design on facility location and constructability
- Surveys to identify the boundary of the right-of-way in the potential project area
- Geotechnical investigation to assess soils and groundwater conditions
- Stormwater and drainage surveys to identify creek and stormwater conveyance in the project area

North Beach neighbors have helped the project team understand local conditions that have been considered in project design. Your input on King County's North Beach Pump Station site was considered as we developed a configuration for the new odor control and electrical facility.

Upcoming community meeting in North Beach!

Wednesday,
January 25, 2012
6:30pm - 8:00pm

North Beach
Elementary School
Cafeteria
9018 24th Avenue NW
Seattle, WA 98117





North Beach neighbors meet King County's design team

King County's multidisciplinary design team has been working to meet deadlines set, etc.

You are receiving this newsletter because you live in the project area, along a potential construction haul route, or you have expressed interest in the North Beach CSO Control Project. This newsletter will provide you with an update on important decisions reached in early design, and let you know about upcoming opportunities to participate in project design.



Problem Solving During Construction



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

**South Magnolia CSO
Control Project**

24/7 Construction Hotline

206-XXX-XXXX

In an emergency, dial 911

- Work with construction management team to address odor, noise, dust, and other concerns

- Address access issues for residents, services, and deliveries



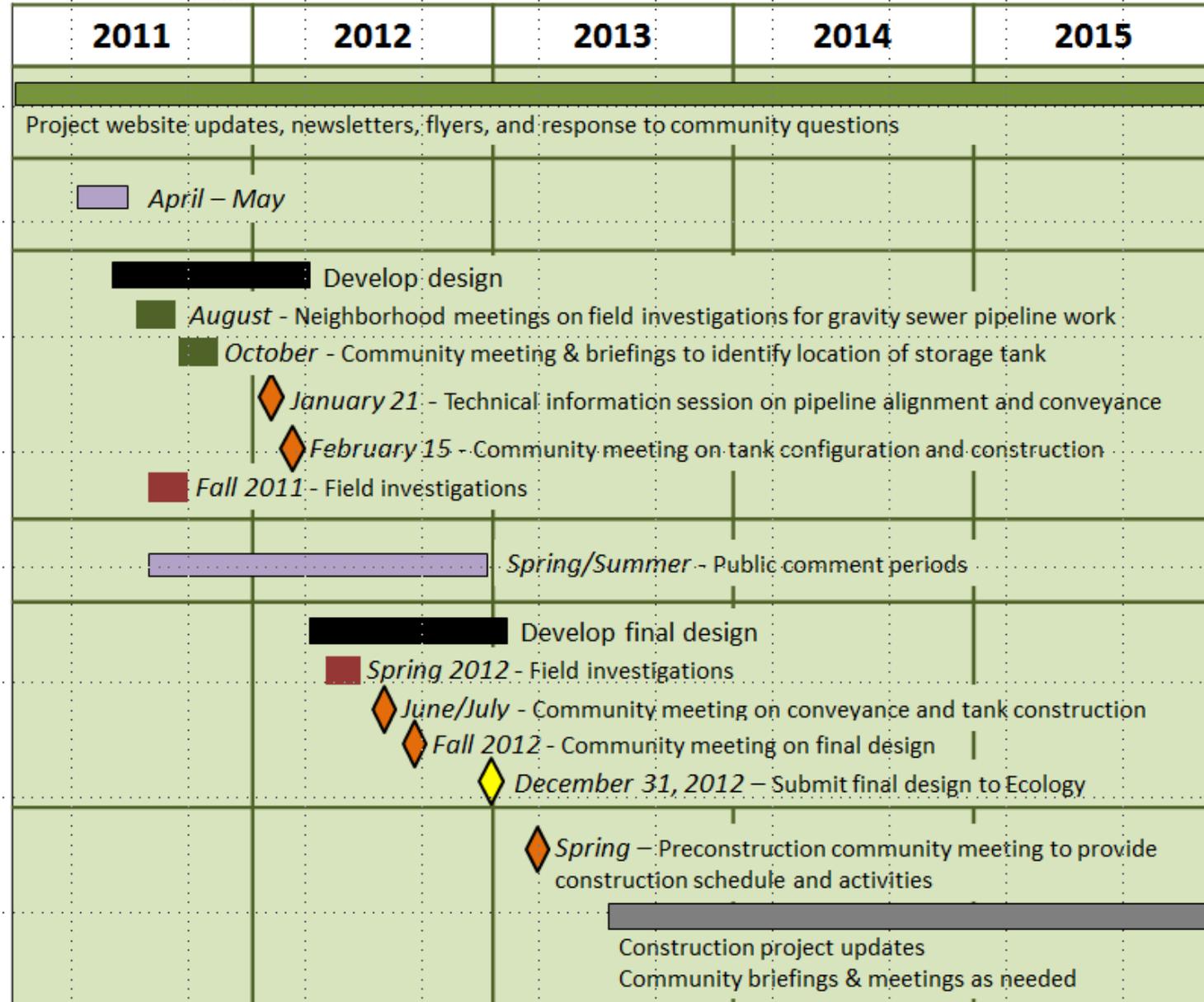
Brightwater Project, Swamp Creek Connector, Kenmore





SOUTH MAGNOLIA CSO CONTROL PROJECT TIMELINE

FEBRUARY 2012



Questions?



Contact Us

- Monica Van der Vieren at (206) 263-7301 or Monica.vandervieren@kingcounty.gov
- More information on the web

www.kingcounty.gov/environment/wtd/Construction/Seattle/SMagnoliaCSOStorage

