



North Base Building 200 Replacement & North Base Sea Level Rise Protection Project Updates



Board of Directors | December 4, 2024

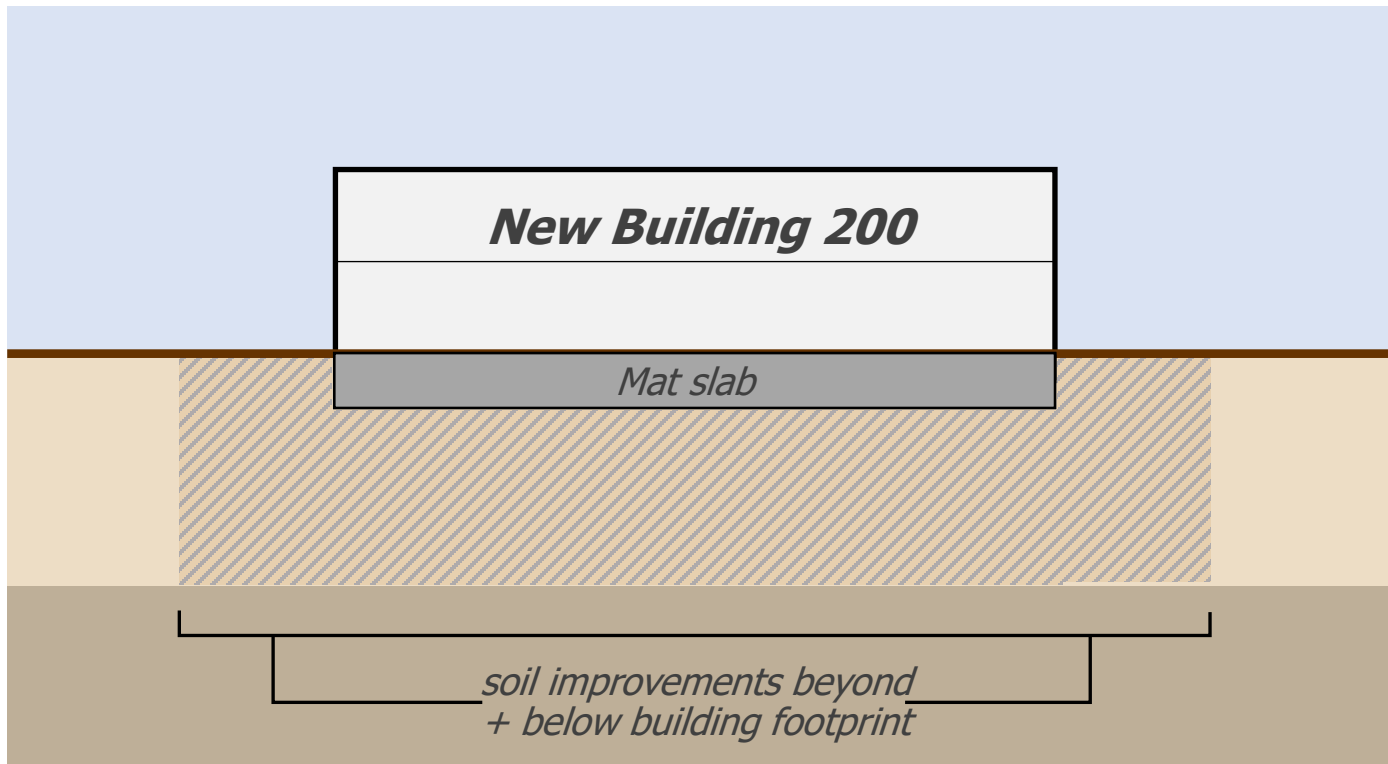
NB Bldg. 200 Replacement Project Update

Building 200 Design

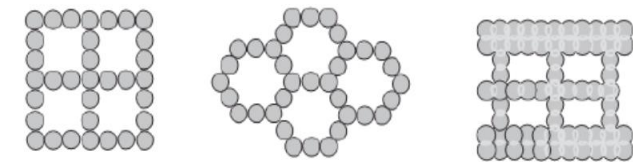


** SCHEMATIC DESIGN RENDERING, Value Engineering could change some design features*

Foundation & Soil Improvements*



- Floor Elevation: Raised by approx. 1 foot (13.5 feet above sea level)
- Foundation: 2-foot Mat Slab
- Soil Improvements: Soil columns in cellular patterns formed by Deep Soil Mixing

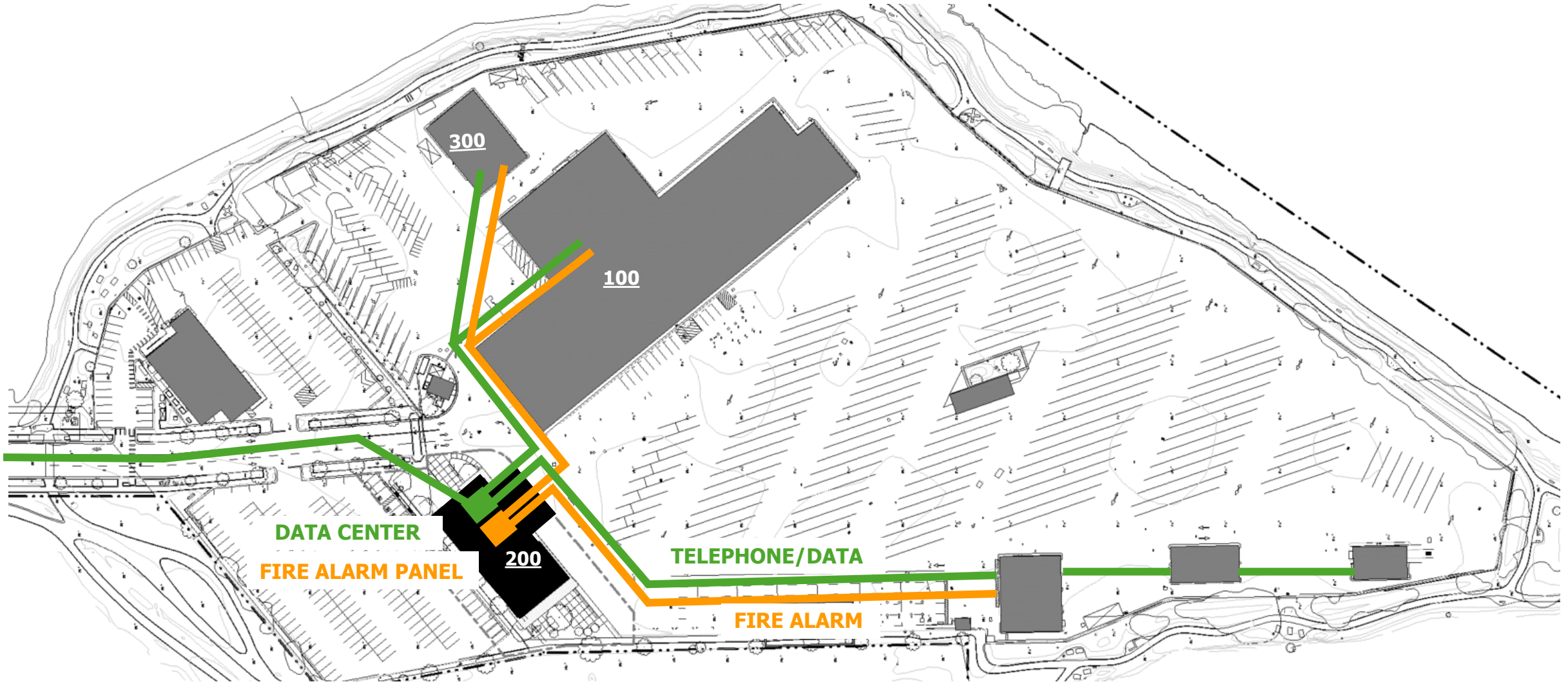


* Design was reviewed and validated by a Third-Party Engineer

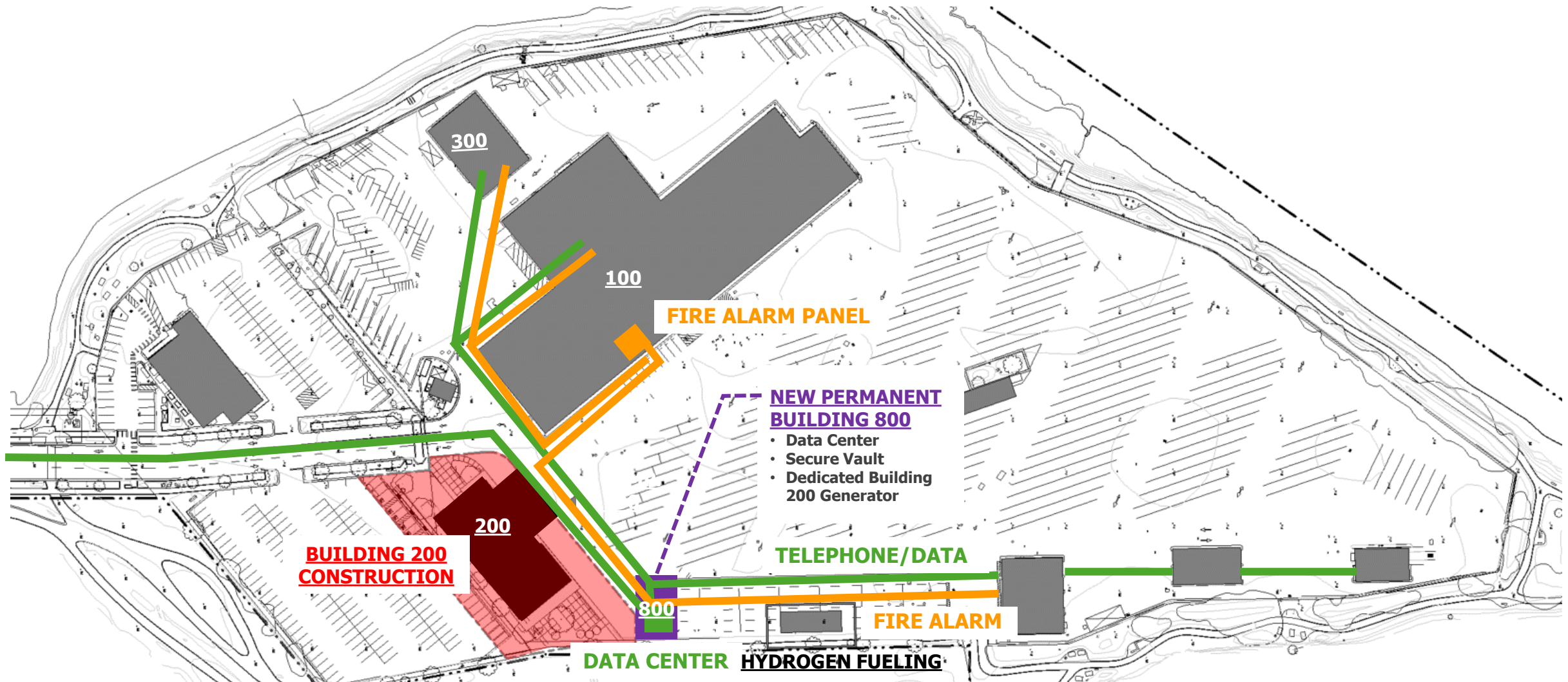
Updated Project Scope

- ◆ New Bldg. 800 (approx. ~1,500 sf)
 - ◆ Data Center (Upgraded to accommodate expanded service)
 - ◆ Electrical & Mechanical Rooms
 - ◆ Generator
 - ◆ Vault
- ◆ Temporary Accommodations: Trailers & Existing Facilities

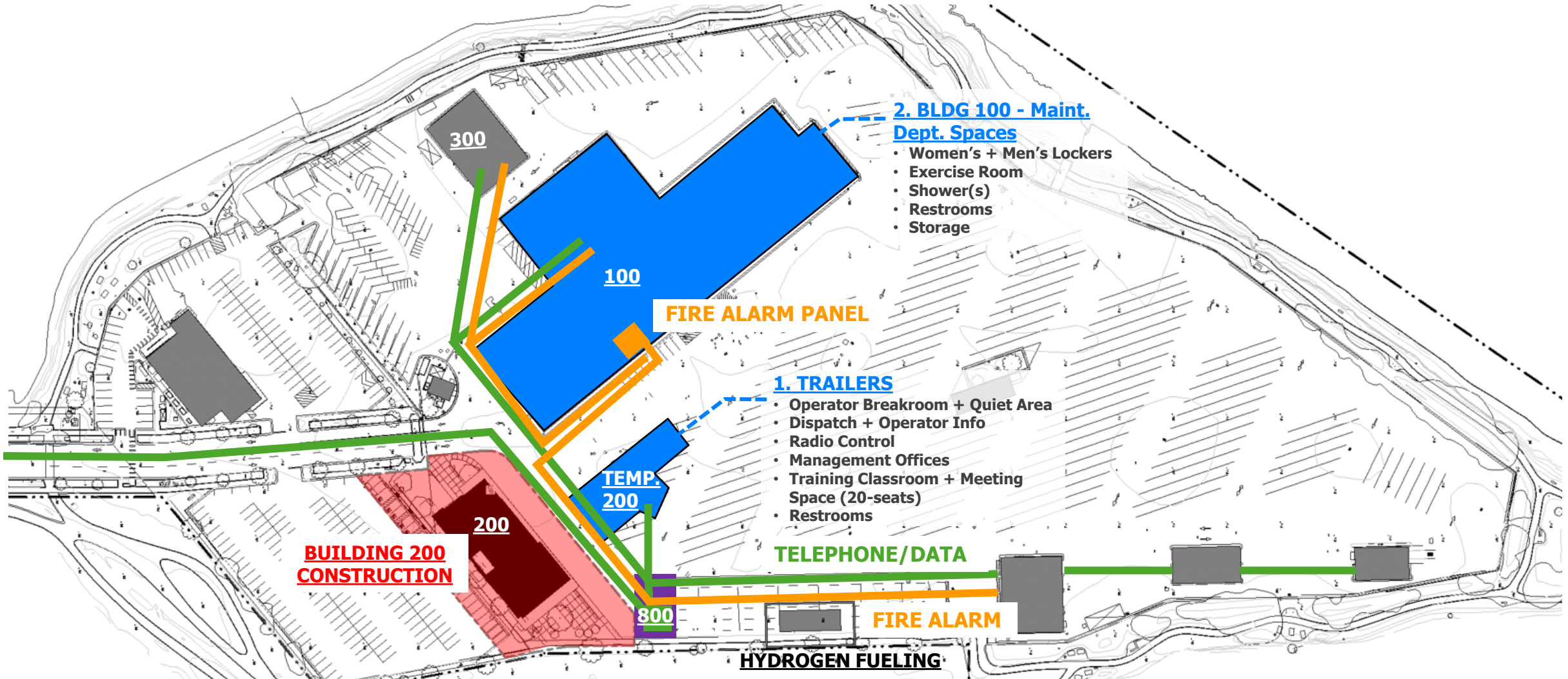
Existing Data Network



New Bldg. 800 - Proposed Network



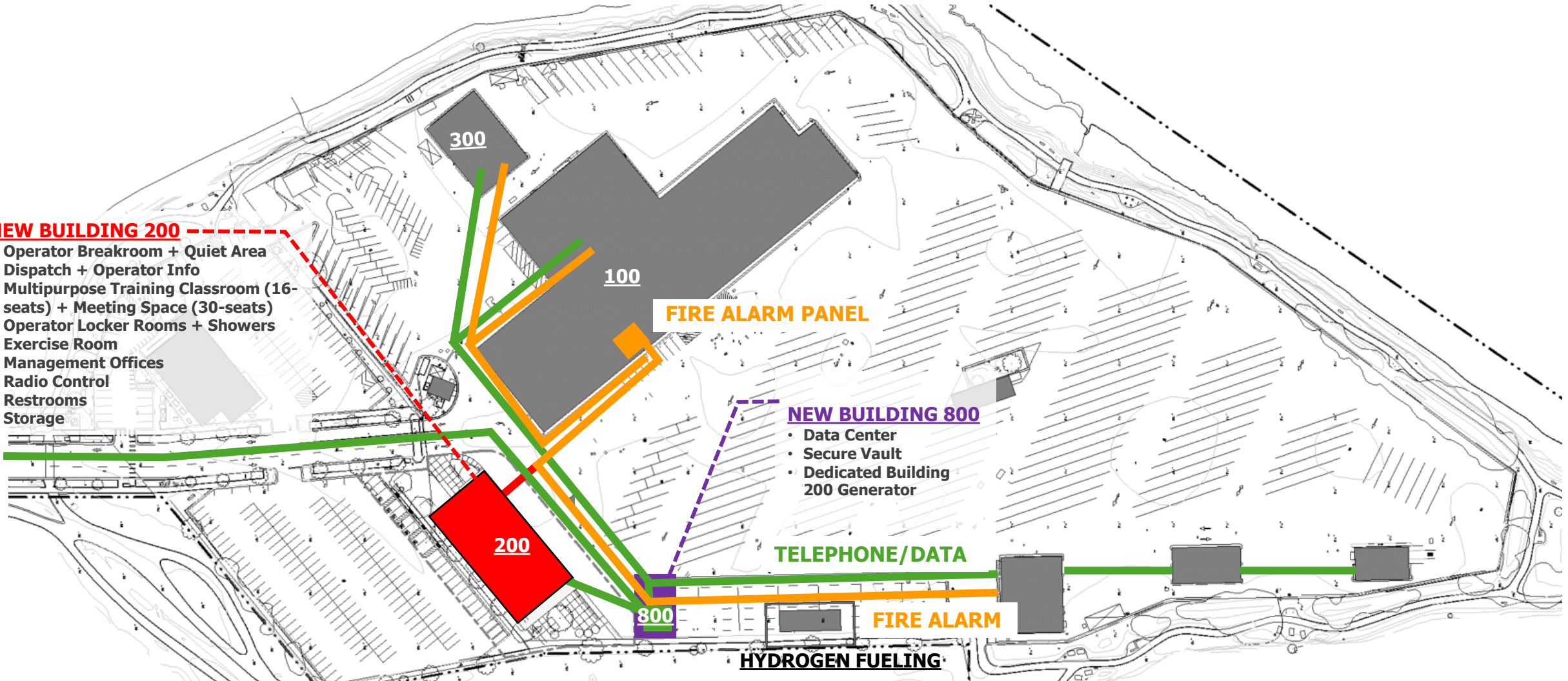
Temporary Accommodations



Bldg. 200 Project – Final Buildout

NEW BUILDING 200

- Operator Breakroom + Quiet Area
- Dispatch + Operator Info
- Multipurpose Training Classroom (16-seats) + Meeting Space (30-seats)
- Operator Locker Rooms + Showers
- Exercise Room
- Management Offices
- Radio Control
- Restrooms
- Storage



FIRE ALARM PANEL

NEW BUILDING 800

- Data Center
- Secure Vault
- Dedicated Building 200 Generator

TELEPHONE/DATA

FIRE ALARM

HYDROGEN FUELING

Project Schedule

Project Name	2024				2025				2026				2027				2028																		
	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
North Base Building 800 Construction + Data Network																																			
North Base Temporary Accommodations (Leased Trailers)																																			
North Base Building 200 Replacement																																			
NB Bldg. 200 - Geotechnical & Structural Monitoring																																			
Legend:	Design				Procurement				Construction																										

Project Cost Estimate & Funding

Cost Estimate:	\$51 million
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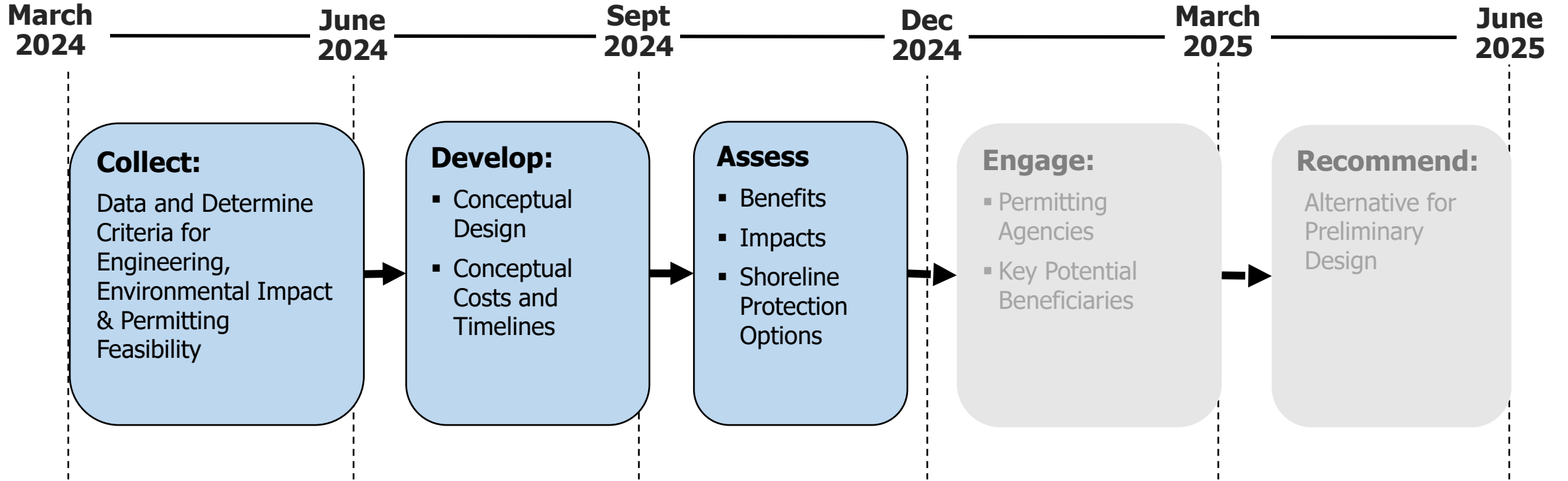
Funding:	District Sales Tax & Alternative Funding Sources
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NB Sea Level Rise Protection Project Update

Background

- 2021 SamTrans Adaptation and Resilience Study recommended a solution that protects the perimeter of North Base
- South San Francisco and OneShoreline recommended a regional solution

Feasibility Assessment - Completed



Sea Level Rise Protection Alternatives

Alternative 1 Regional Protection

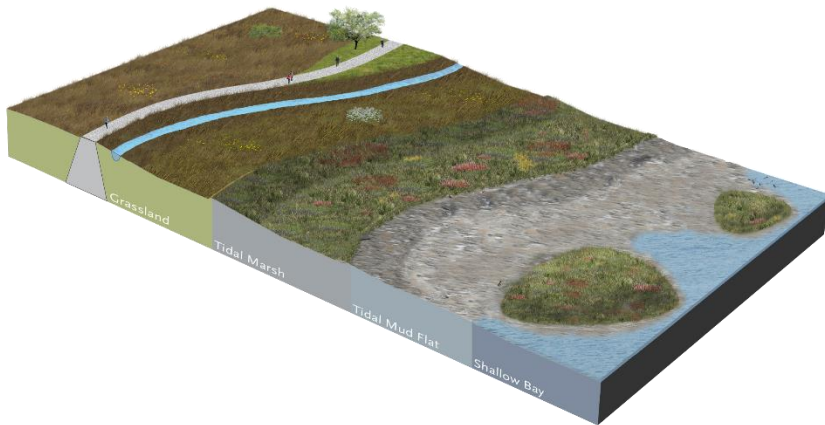


Alternative 2 Perimeter Protection



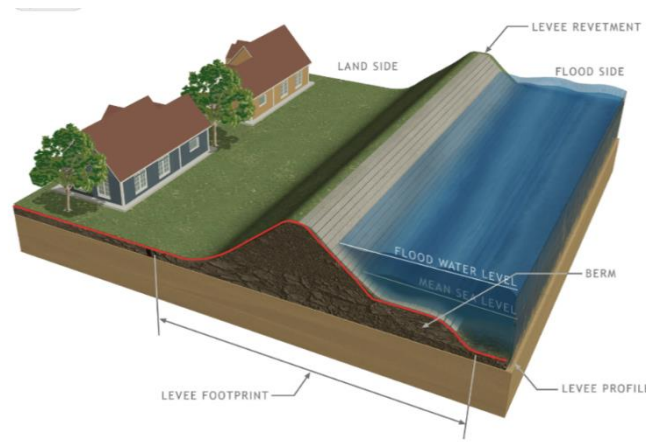
Shoreline Protection Options

Option A Ecotone Levee



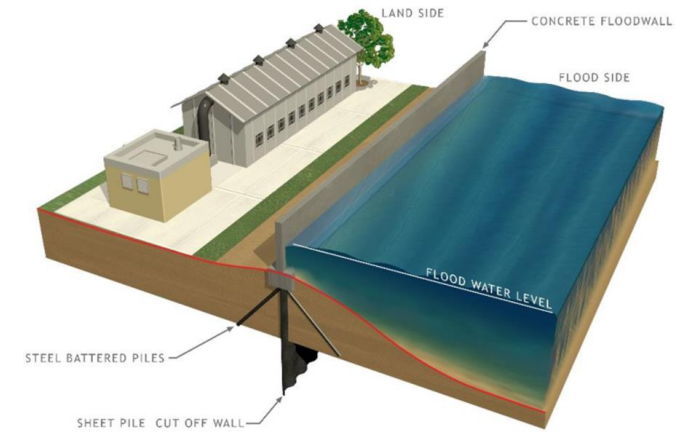
- Gradual (gentle) horizontal slope (10:1 grade)
- Vegetated horizontal edge can dampen wave energy, reducing erosion
- Nature-based solution - Plant growth supports native habitat restoration
- High construction cost

Option B Traditional Levee



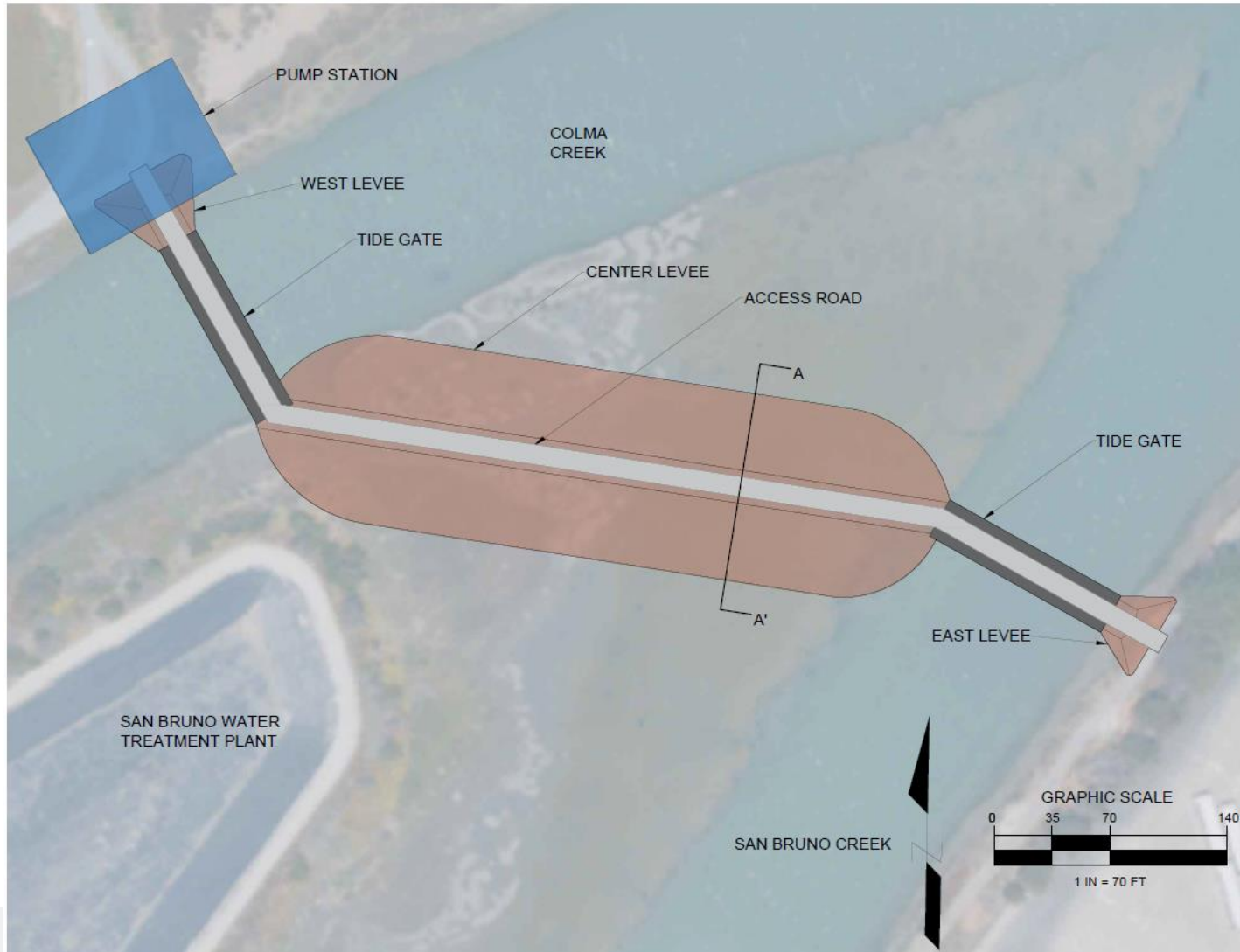
- Harden slope (3:1 grade)
- Moderate construction cost compared to ecotone levee because it requires less filling of the Bay

Option C Seawall



- Vertical structure
- Hardened (grey) structures
- Moderate construction cost

Regional Barrier Components



Tide Gates - Two separate tide gate structures to prevent elevated flood waters from flooding upstream.

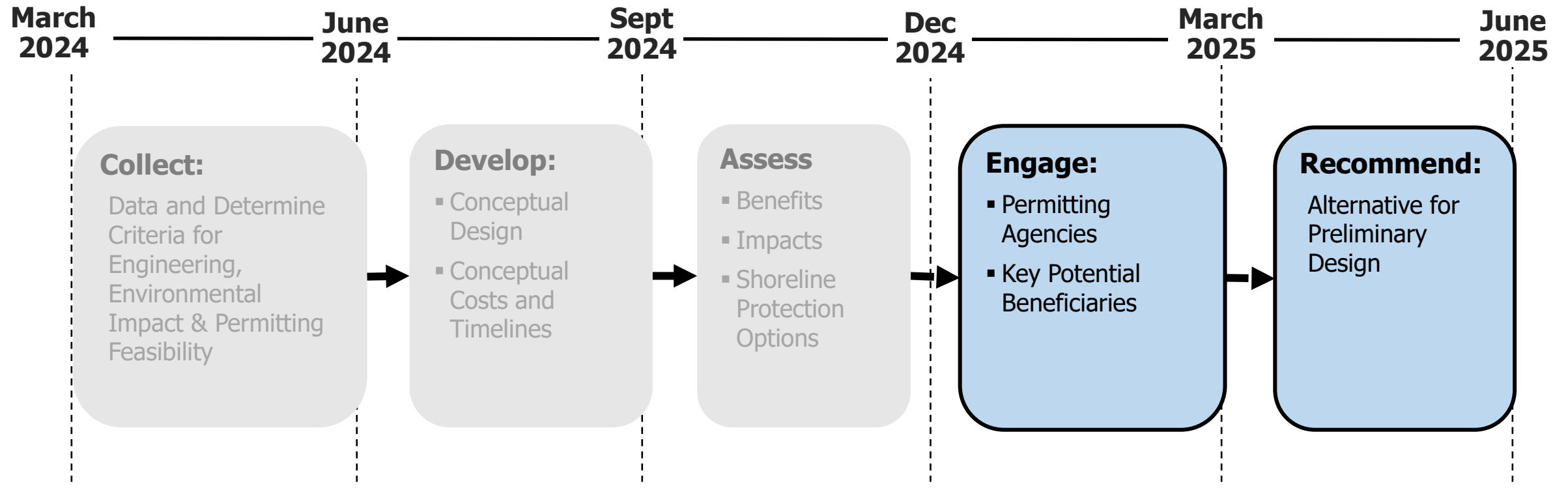
Earthen Levee - Earthen levee connects the two tide gates, as well as connects the tide gate structure to the land.

Pump Station - Pumps riverine discharge from San Bruno Creek and Colma Creek to Bay in the event the tide gates are closed during a riverine event.

Overall Comparison of Alternatives

		Alt 1: Regional Protection	Alt 2: Perimeter Protection
Regional Benefits		High	Low
Total Project Cost (Includes Escalation to Time of Construction)		\$250M - \$500M <small>*cost sharing potential</small>	\$125M - \$275M
Timeline	Design	2 years	1.5 years
	Permitting	9 – 11 years	4 – 6 years
	Construction	3 – 4 years	2 – 3 years
Environmental Impact	During Construction	High	Medium
	Post-Construction	High	Low
Sea Level Rise Adaptability (Ability to Increase Height in Future Phases)		Low	High
Maintenance		High	Low

Feasibility Assessment – Next Steps



Questions