



KAYAK POINT REGIONAL PARK

Day Use Area Improvements

2006





Sea Level Rise

- Relative sea level rise projections based on National Research Council regional SLR projections for the Pacific Coast
- Based on Intergovernmental Panel on Climate Change (IPCC) projections.
- The IPCC 2100 prediction value used for this study is 4.69 ft.

Table 3. Present and projected tidal datums for Kayak Point.

Datum	Elevation (FT NAVD88)	Elevation (FT MLLW)
MLLW (2017)	-2.2	0.0
MHHW (2017)	9.04	11.24
High water (2017)	12.19	14.39
MLLW (2100)	2.49	0.0
MHHW (2100)	13.73	11.24
High water (2100)	16.88	14.39

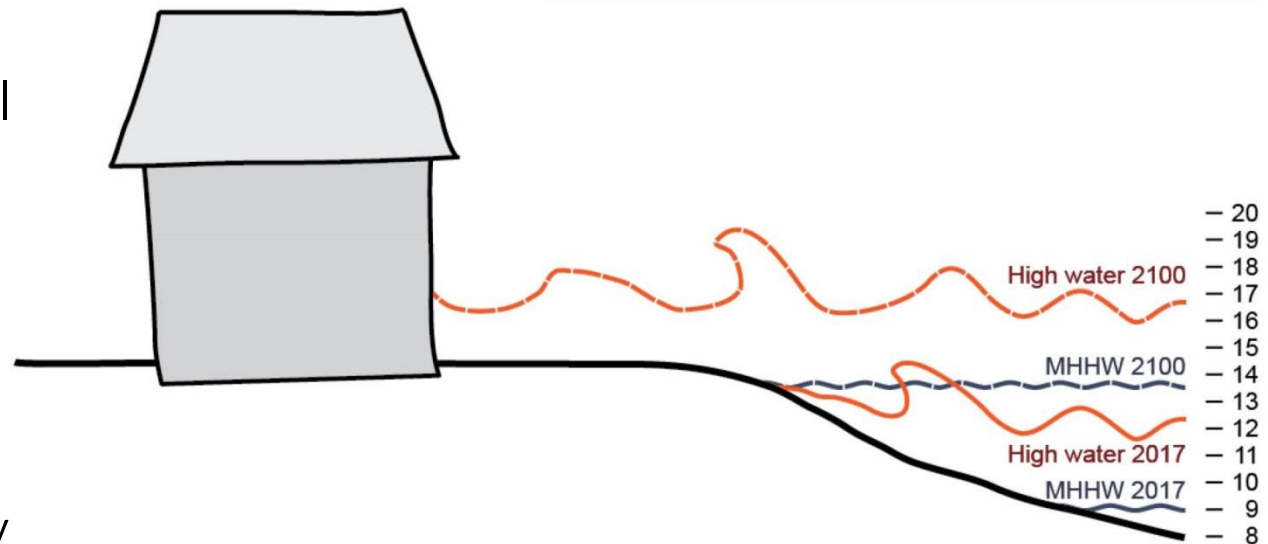


Figure 1. Conceptualized model of current conditions and future (approximately the year 2100) conditions due to projected sea level rise of 4.69 ft, with elevation in FT NAVD on right, and existing beach profile.

Elevations for Park Land Uses

Building & Site Existing & Proposed Finished Floor Elevations (FFE)

Structure/Amenity	Existing FFE	Future FFE (for 2100)
Concession Building and Pier	+15.9' NAVD88	+15.9' – Confirm lifespan of pier. If short, discuss potential renovation. If long, consider raising.
Northern/Small Picnic Shelters	+11.6' to +12.4' NAVD88	+15 min. – Consider shifting northern shelter locations to respond to public request for parking near some shelters, address higher deposition rate at northern end of beach and possibly provide more shelters
Boat Launch approach grade	+12 to +13 NAVD88	+16 to +17 – Or higher? With the pile supported approach, having the launch higher will help wood move underneath – at least for the short(ish) term.
Northern Restroom	+13.2' NAVD88	Assume this building will be removed.
New Central Restroom	+14.0' NAVD88	+17
South Picnic Shelter/Restroom	+12.0' NAVD88	+17 – Leave for now – future replacement would be built higher.
New Play Area	+13.5' NAVD88	+16 – Possibly higher if needed for drainage
Parking Lots	+14 NAVD88	+16 to +16.5' typ. – Possibly higher if needed for drainage away from pavement?
Landscape Areas	+12 to +15 NAVD88	+14 min. to +17 typ. – Minimize low areas/areas of water concentration.
Bio-swailes	N/A	+12 min.

Lagoon Redesign Concept

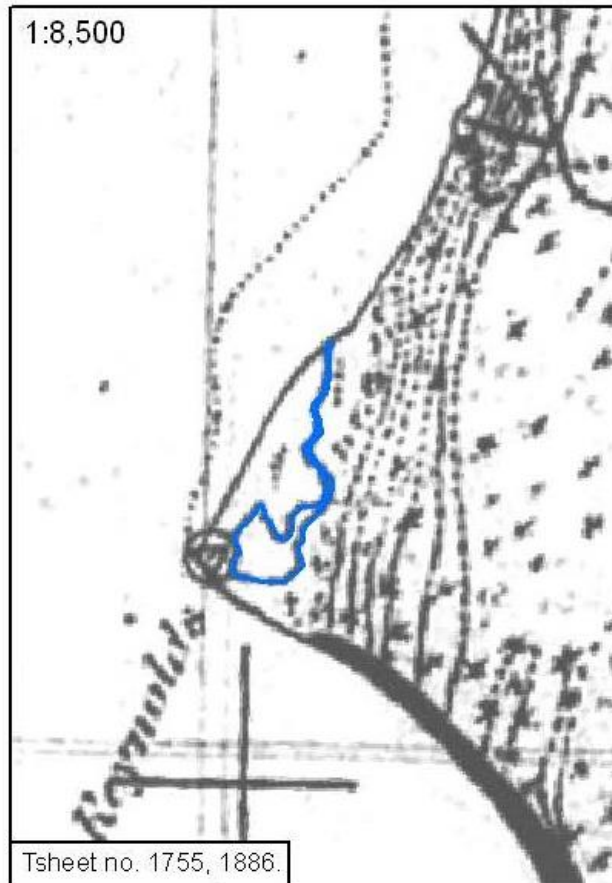


Figure 15. US Coast and Geodetic Survey historic T-sheet from 1886 showing the historic configuration of the south Kayak Point shore, including backshore lagoon with northward draining tide channel.



Figure 16. Digitized position of lagoon and marsh adapted from Collins and Sheikh (2005) displayed on 2003 photo. *Photo courtesy of Snohomish County.*

Schematic Plan



DAY USE AREA | SCHEMATIC PLAN KAYAK POINT COUNTY PARK

j.a. brennan associates, PLLC
in association with
Reid Middleton, Rolluda Architects, Raedcke, Shannon & Wilson, Coastal Geologic Services, SWCA, and Stantec

Snohomish County

03/12/2019


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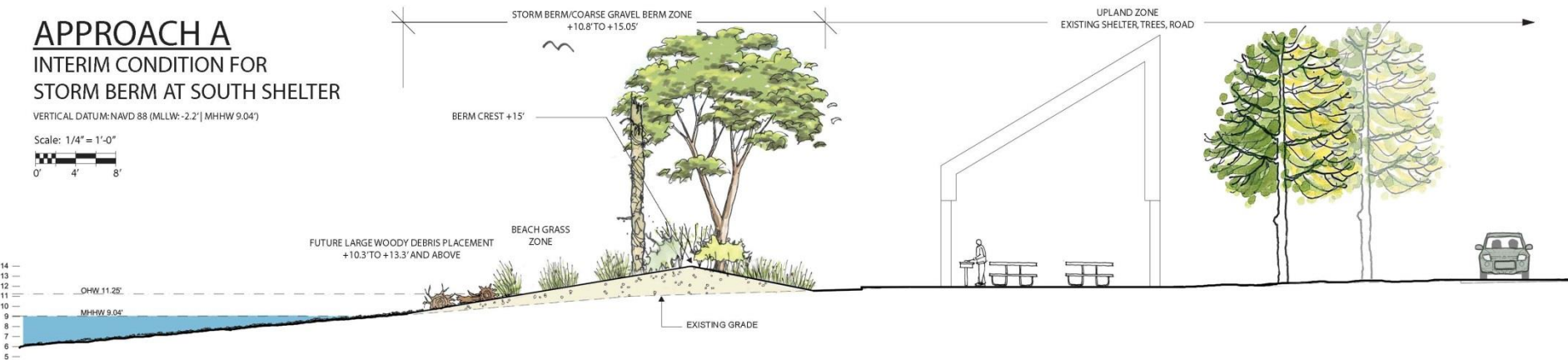


APPROACH A

INTERIM CONDITION FOR STORM BERM AT SOUTH SHELTER

VERTICAL DATUM: NAVD 88 (MLLW: -2.2' | MHHW 9.04')

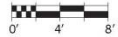
Scale: 1/4" = 1'-0"


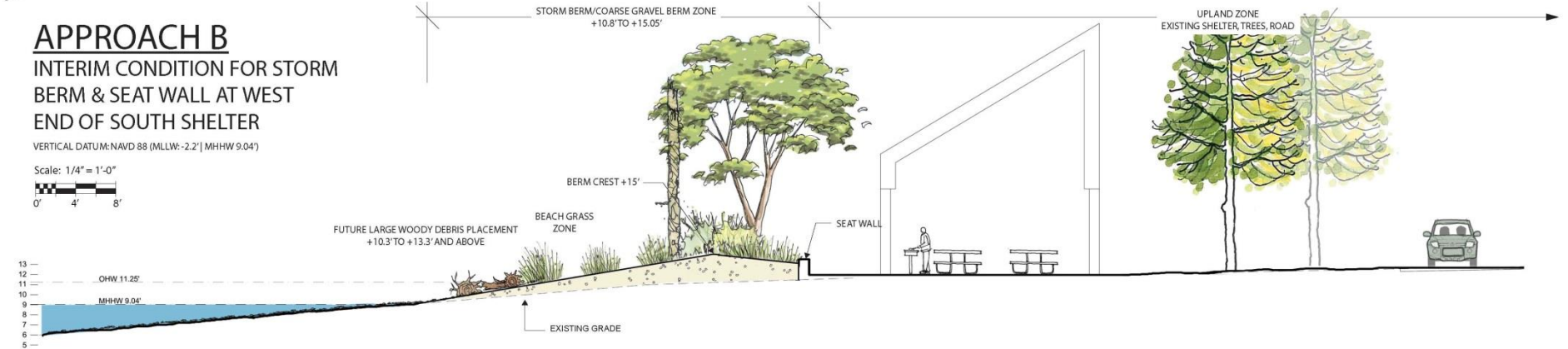


APPROACH B

INTERIM CONDITION FOR STORM BERM & SEAT WALL AT WEST END OF SOUTH SHELTER

VERTICAL DATUM: NAVD 88 (MLLW: -2.2' | MHHW 9.04')


Scale: 1/4" = 1'-0"


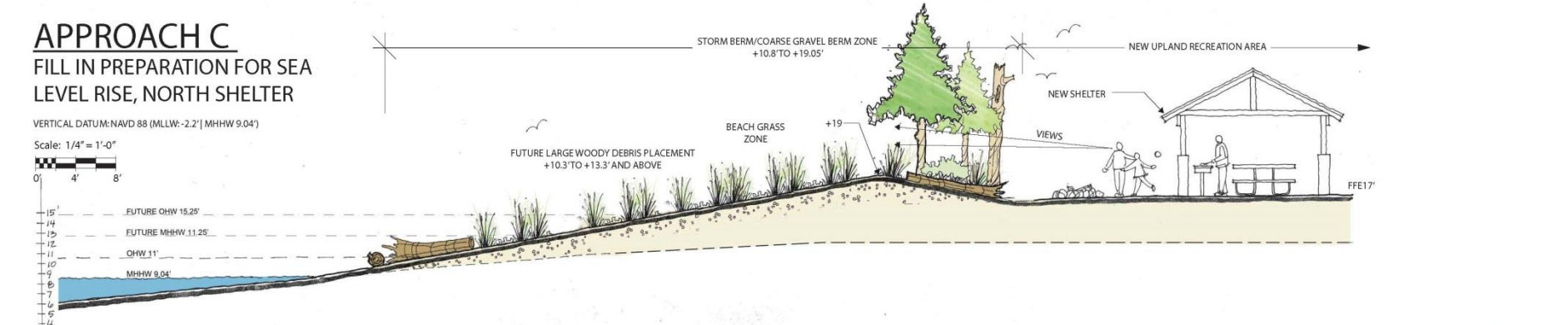


APPROACH C

FILL IN PREPARATION FOR SEA LEVEL RISE, NORTH SHELTER

VERTICAL DATUM: NAVD 88 (MLLW: -2.2' | MHHW 9.04')

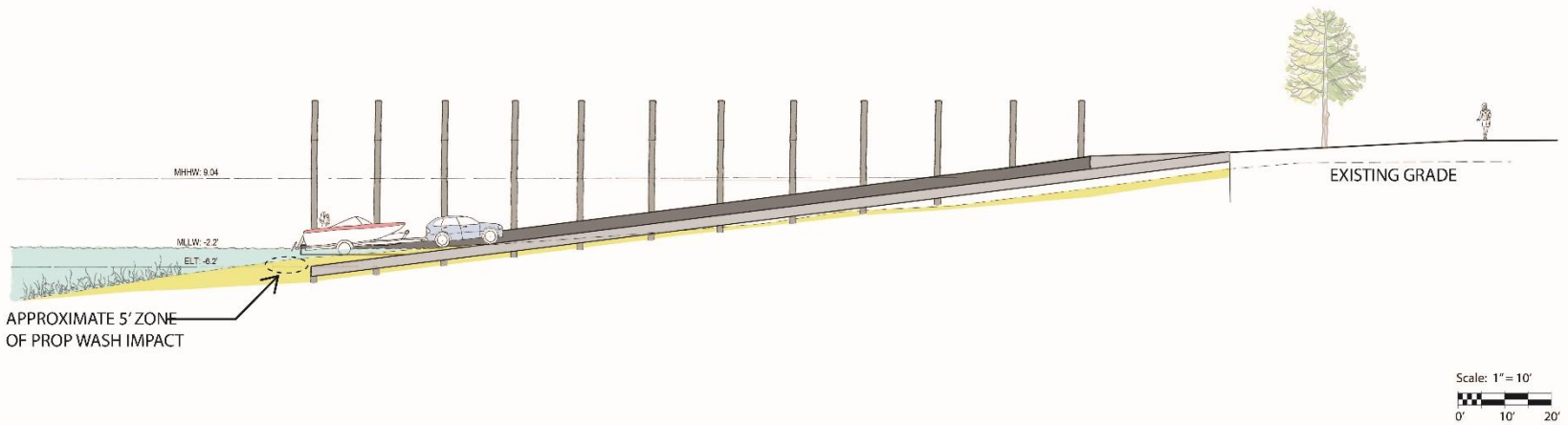
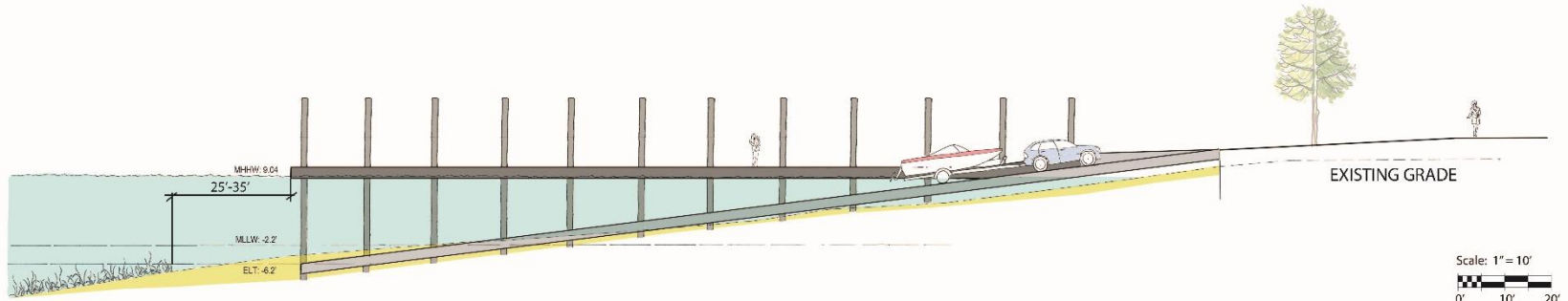
Scale: 1/4" = 1'-0"




Day Use Shoreline Concept Sections

DATUM NOTES:

- 1. VERTICAL DATUM: NAVD 88
- 2. MLLW: -2.2'
- 3. MHHW: +9.04'



Boat Launch Sections

King Tide

With and without a backshore berm
(A Bellingham example)

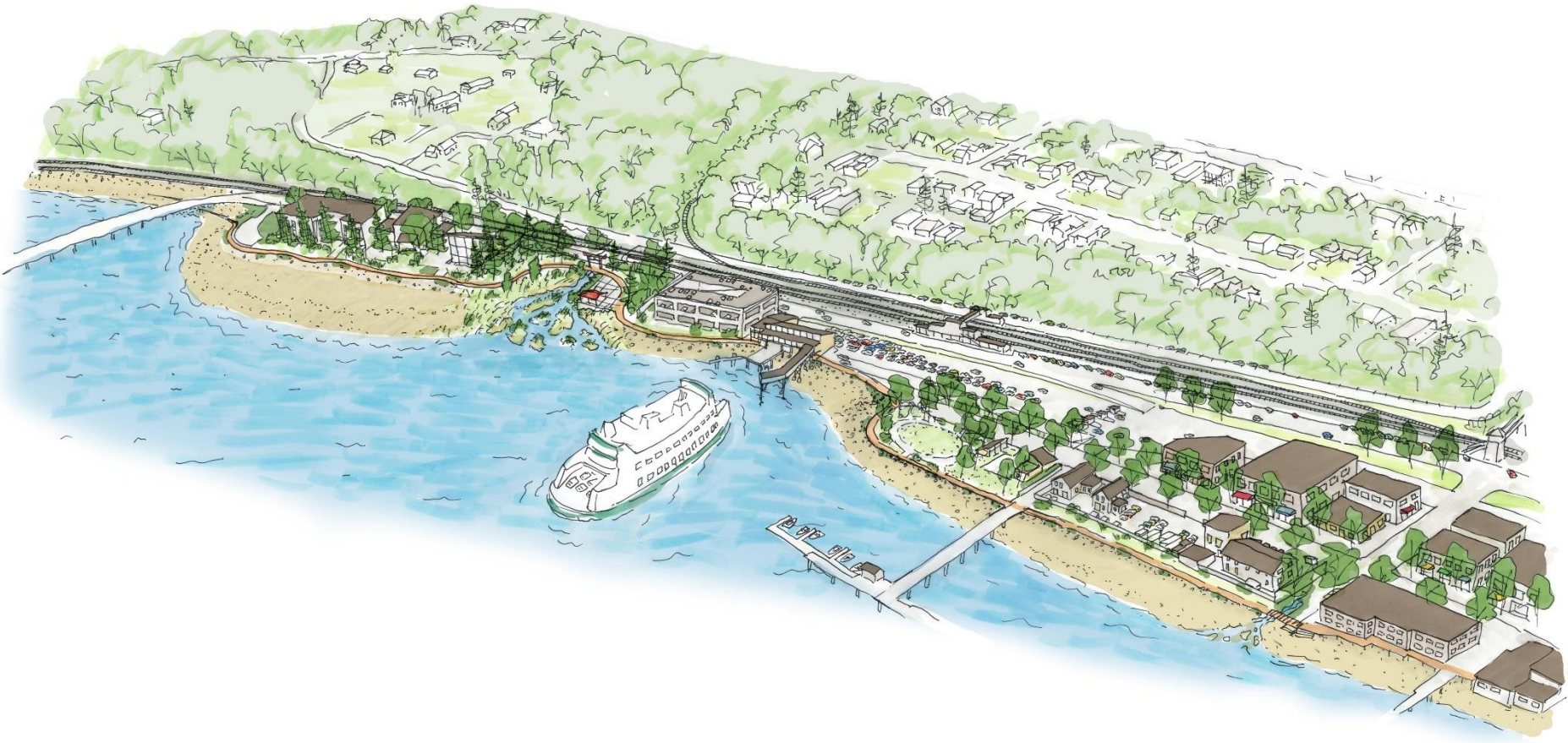


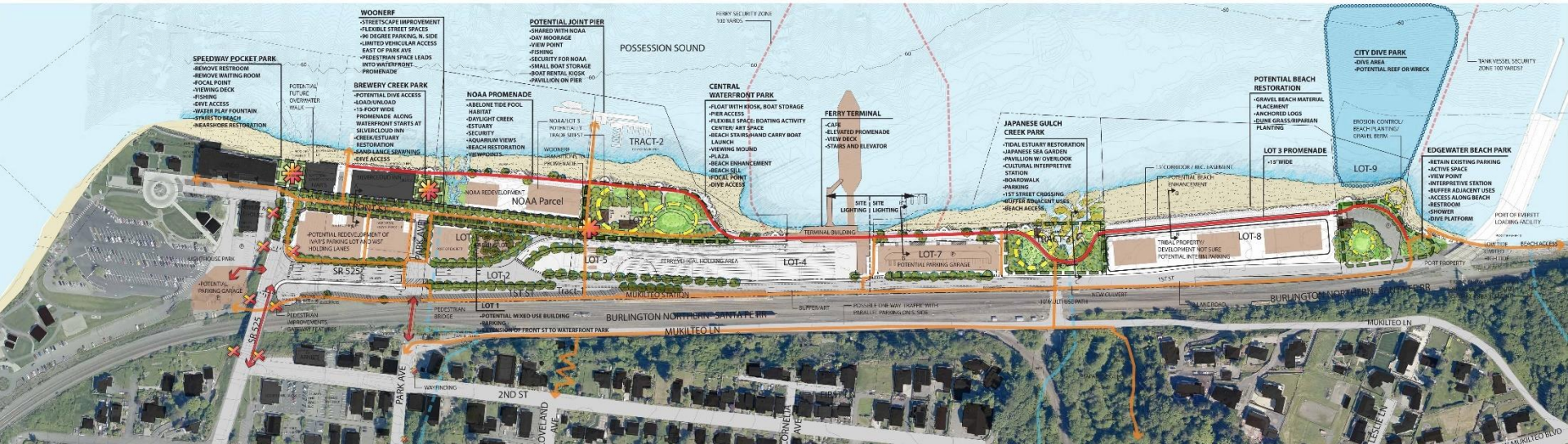


MUKILTEO WATERFRONT

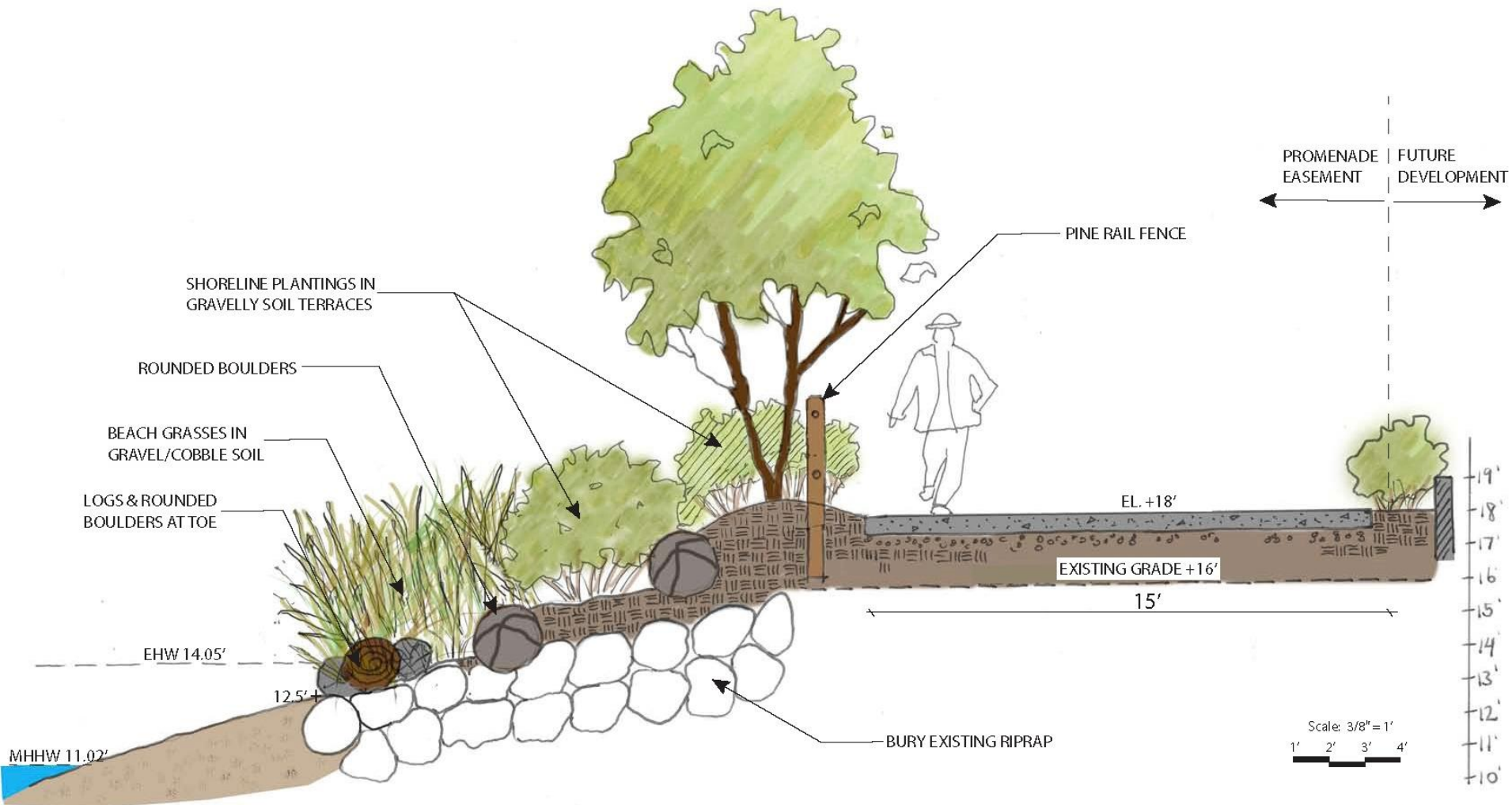
Master Plan & Promenade







PREFERRED ALTERNATIVE
 MUKILTEO DOWNTOWN WATERFRONT MASTER PLAN



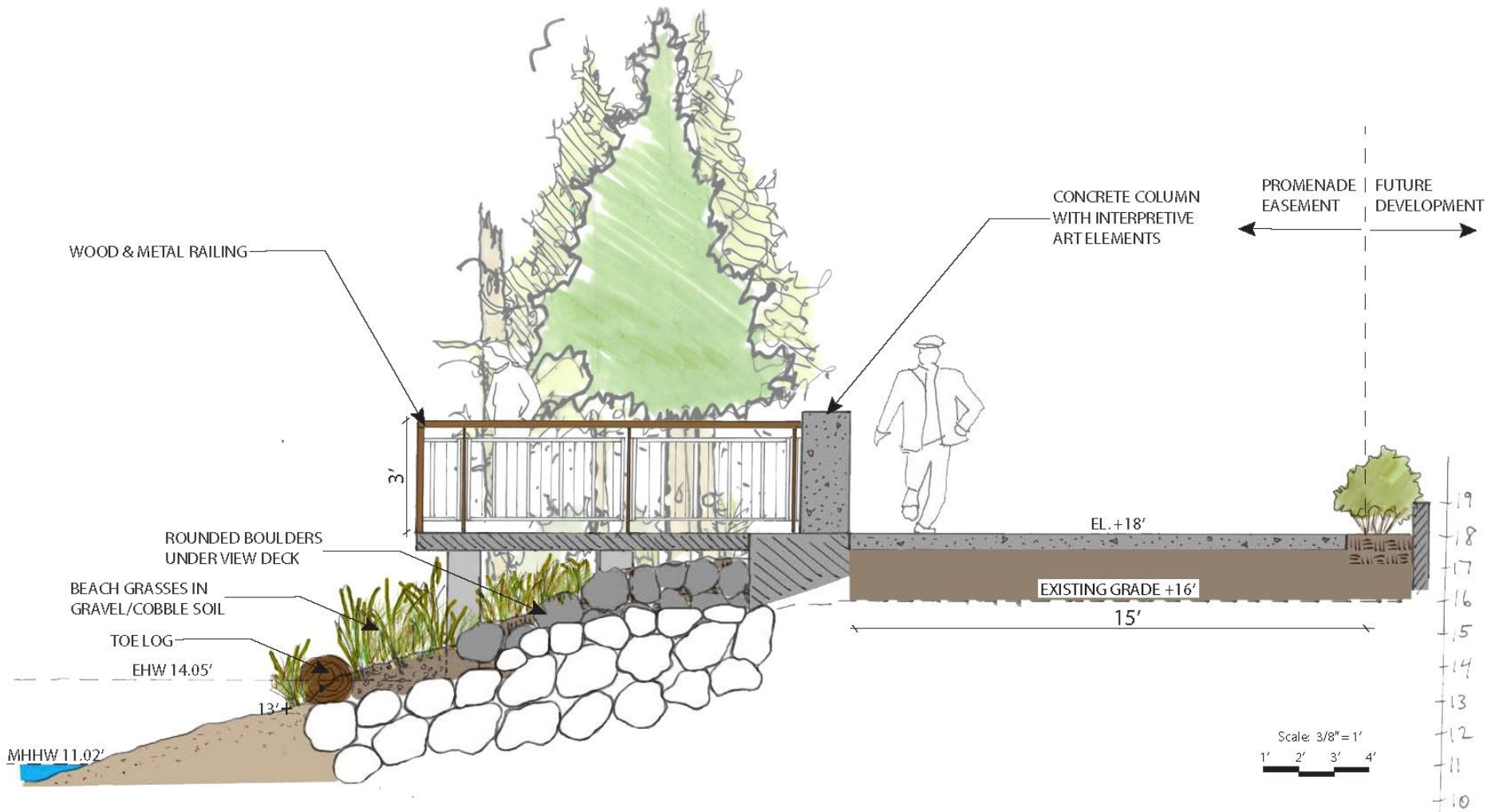
Promenade Soft Shore Section

City of Mukilteo

Date: June 27th 2017

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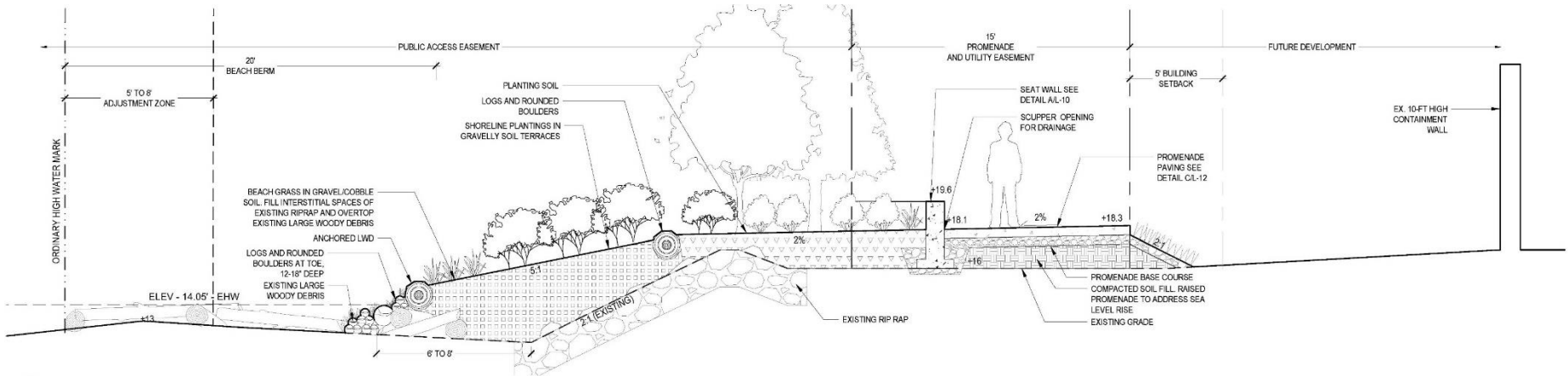
Promenade Viewpoint Node Section

City of Mukilteo

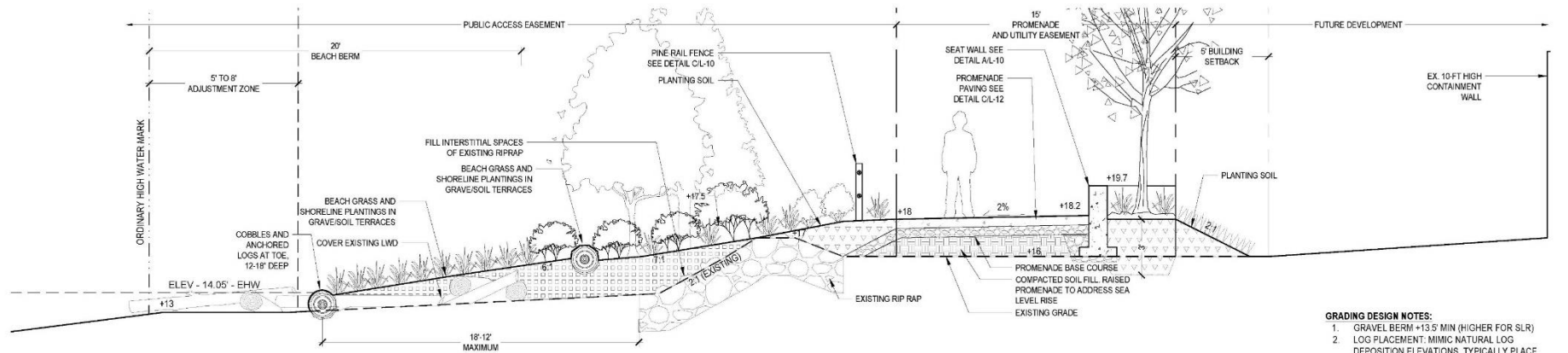
Date: June 27th 2017

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ASSOCIATES PLLC





A PROMENADE AND NARROW SHORELINE ENHANCEMENT SECTION
SCALE: 3/8" = 1'-0"



B PROMENADE AND WIDE SHORELINE ENHANCEMENT SECTION
SCALE: 3/8" = 1'-0"

- GRADING DESIGN NOTES:**
1. GRAVEL BERM +13.5' MIN (HIGHER FOR SLR)
 2. LOG PLACEMENT: MIMIC NATURAL LOG DEPOSITION ELEVATIONS. TYPICALLY PLACE LOGS SEVERAL FEET ABOVE MHHW (+1-11')

MARK	REVISION DESCRIPTION	BY	APP.	DATE

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CITY OF MUKILTEO

WATERFRONT PROMENADE PHASE 1

DRAWN BY TRW
 DESIGN BY TW
 CHECKED BY JB
 PROJ MGR JB

WATERFRONT PROMENADE PHASE 1

SECTIONS

DRAWING NO. **L-07**
 DATE: 12/31/18
 SHEET NO. 9 of 14

60% - DESIGN DRAWINGS
 ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY