City of Bellingham Parks and Recreation
Design and Development Division

Proposed

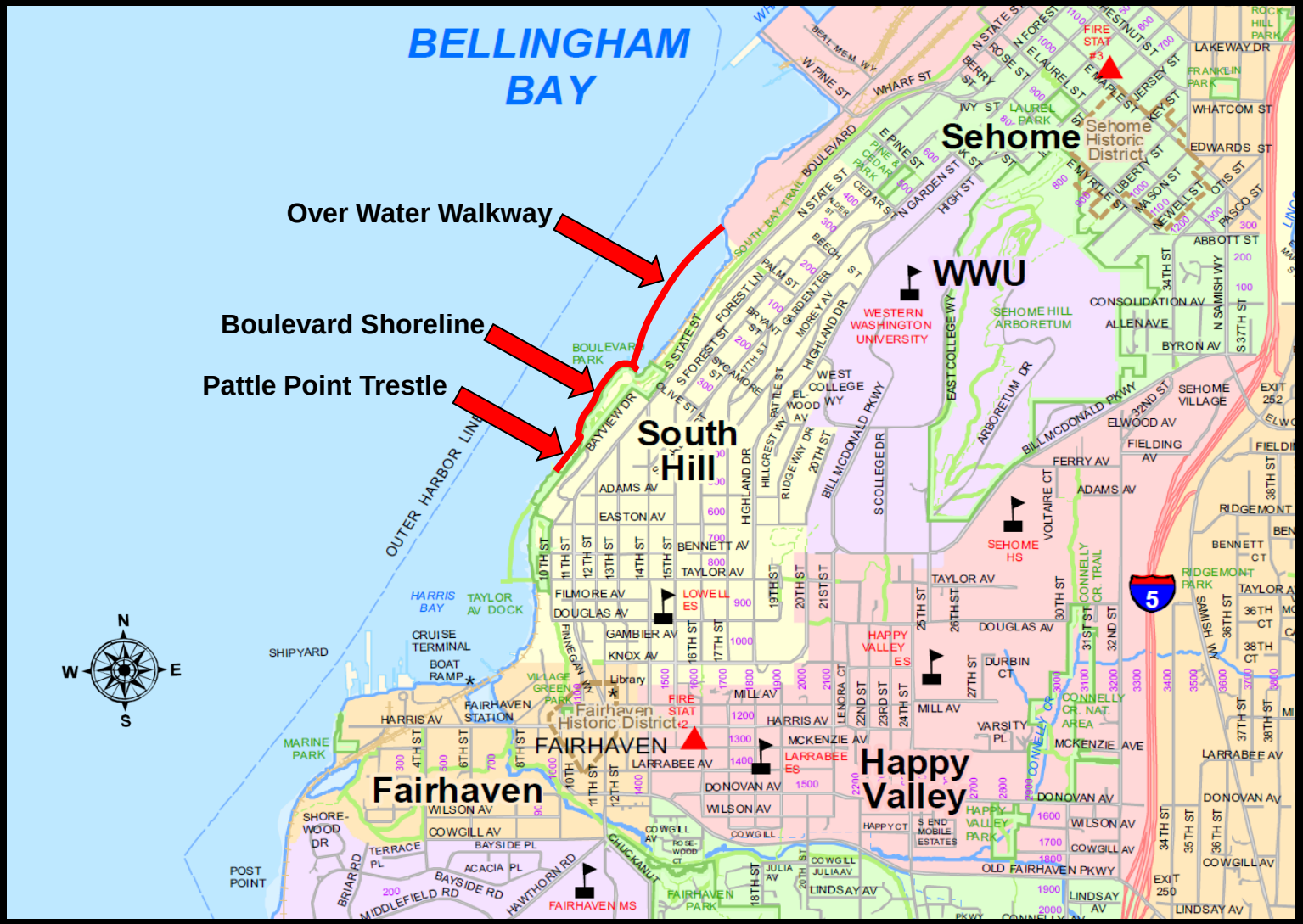
Shoreline Improvements

at Boulevard Park

Gina Gobo Austin, P.E.
Project Engineer
January 26, 2011

Meeting Agenda

- Project Overview
- Site History and Historic Photos
- Photos of Existing Conditions Today
- Proposed Design
- Funding and Schedule
- Questions and Comments



Vicinity Map

Project Overview

Over Water Walkway

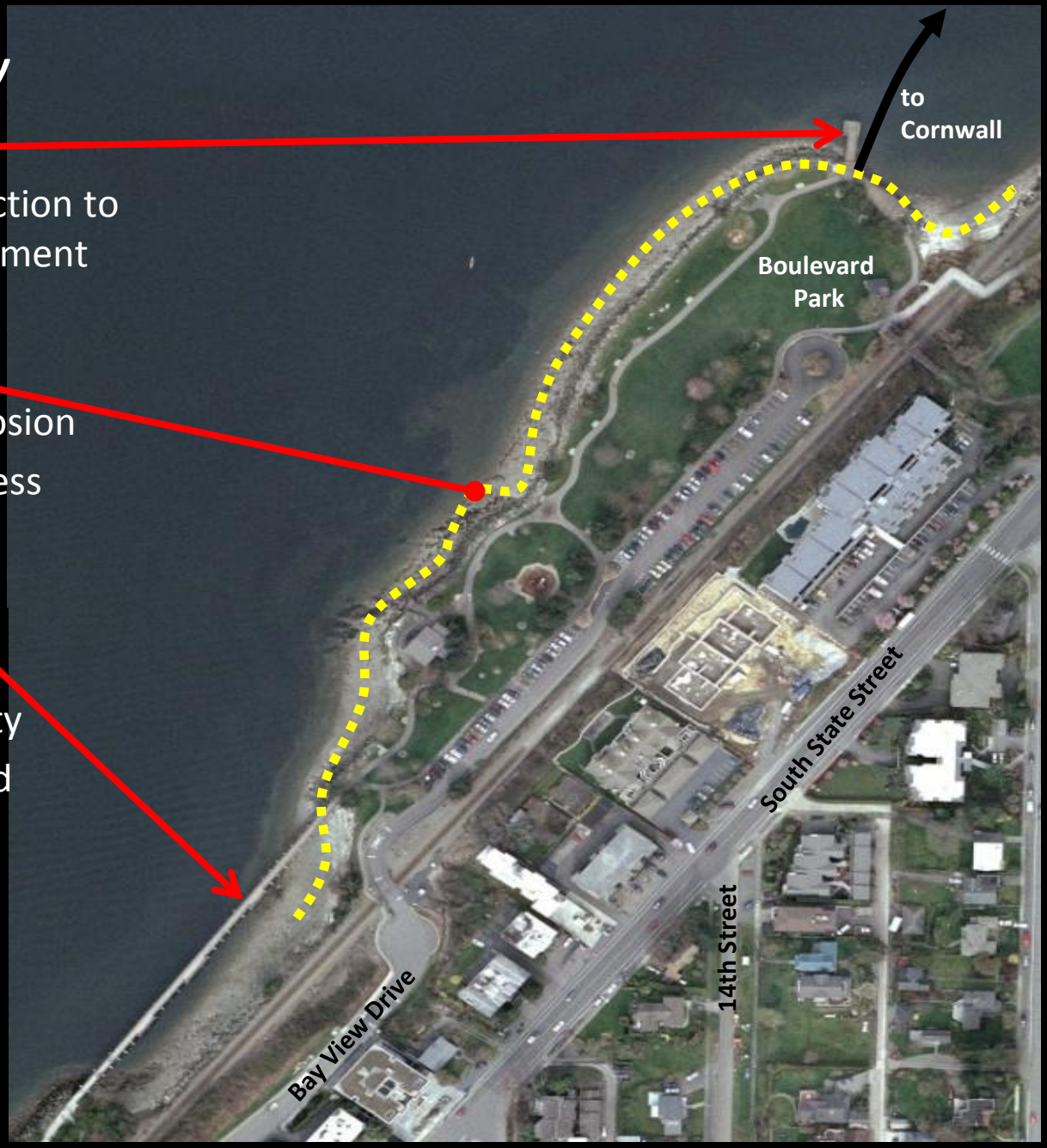
- Provide trail connection to waterfront development

Boulevard Park Shoreline Improvements

- Eliminate beach erosion
- Increase public access
- Improve habitat

Pattle Point Trestle

- Repair damage
- Improve accessibility
- Widen for increased pedestrian traffic



Why Improve the Boulevard Park Shoreline?

- Project identified in the voter-approved Greenway III Levy
- Mitigate shoreline erosion
- Increase public access
- Improve shoreline habitat

Fig. B.
2009 topographic & as-built survey
City of Bellingham, Larry Steele & Associates

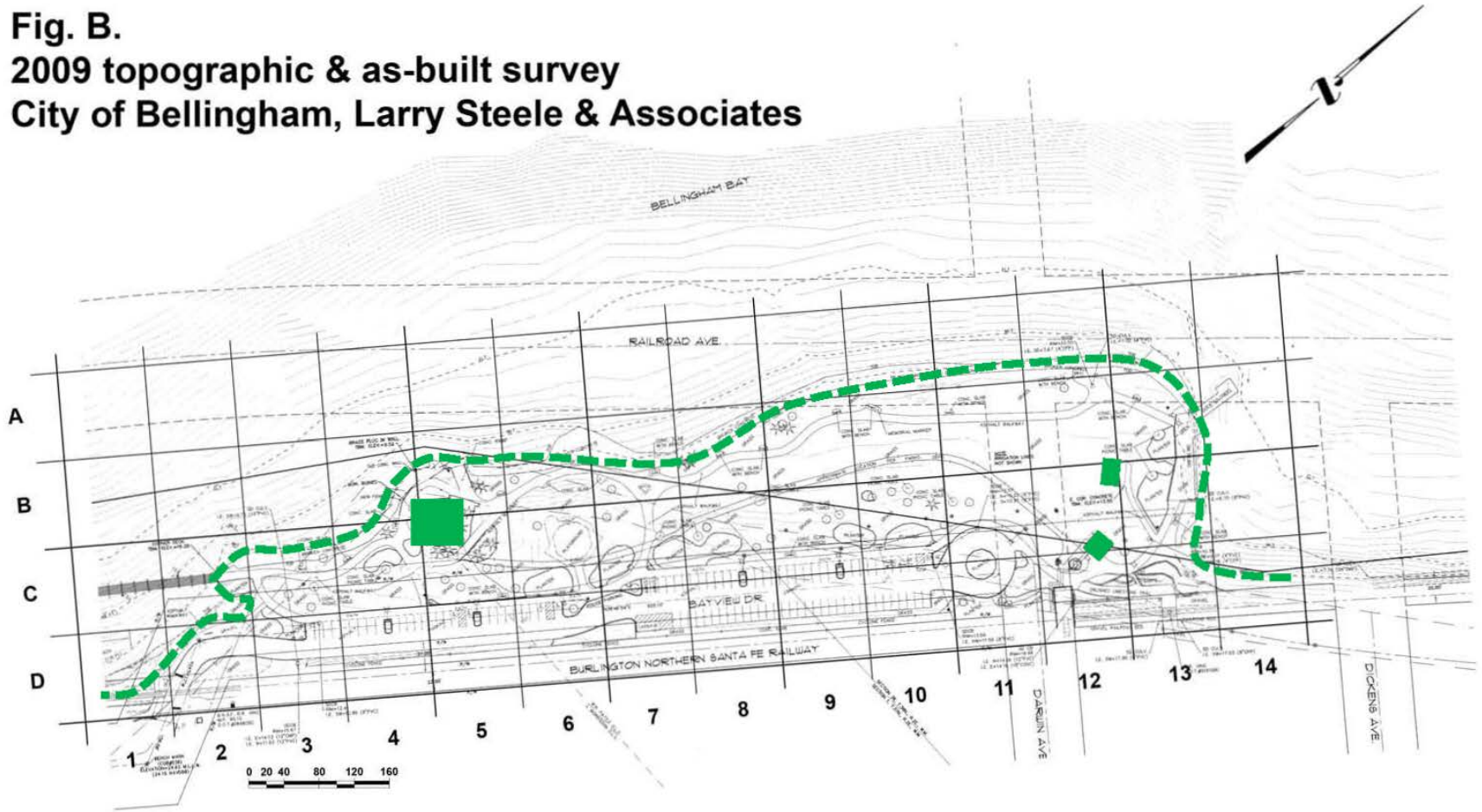


Fig. C.
USCS Hydrographic Survey of 1855
- oversize buildings depicted by draftsman McMurtrie in black
- Pattle house in red (1861, GLO)
- coal wharf in red (1859, GLO)
- Pattle/Morrison DLC line in red

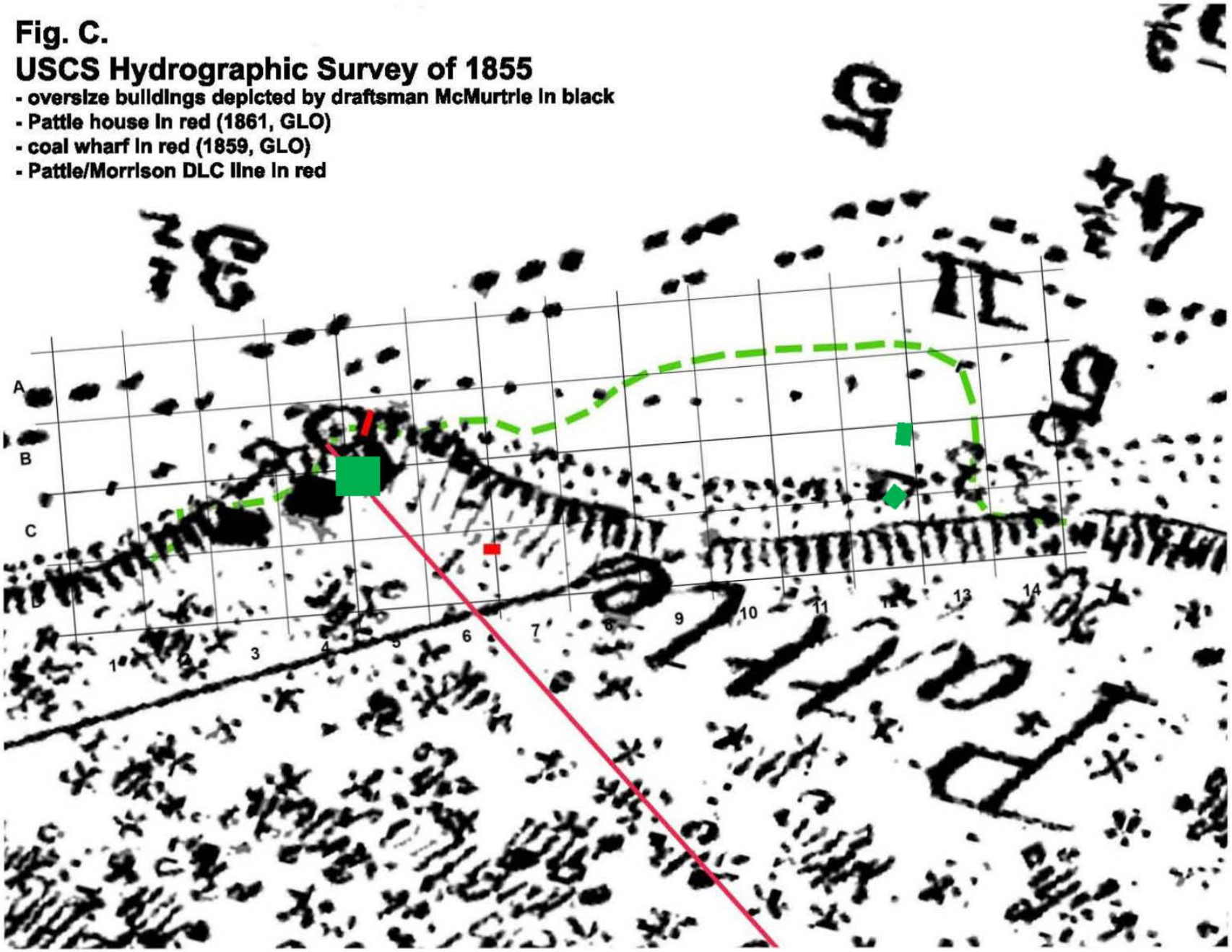
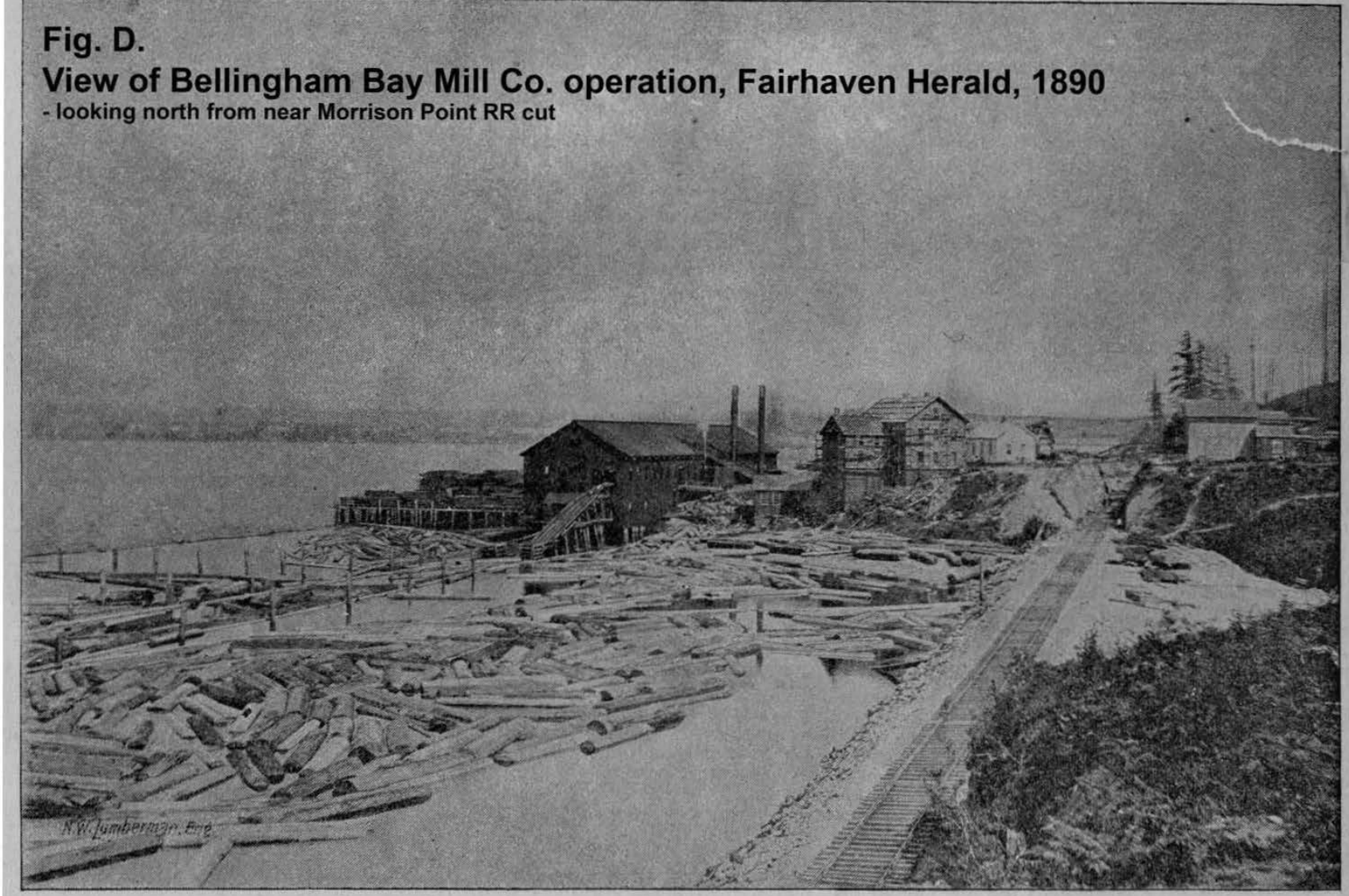


Fig. D.

View of Bellingham Bay Mill Co. operation, Fairhaven Herald, 1890

- looking north from near Morrison Point RR cut

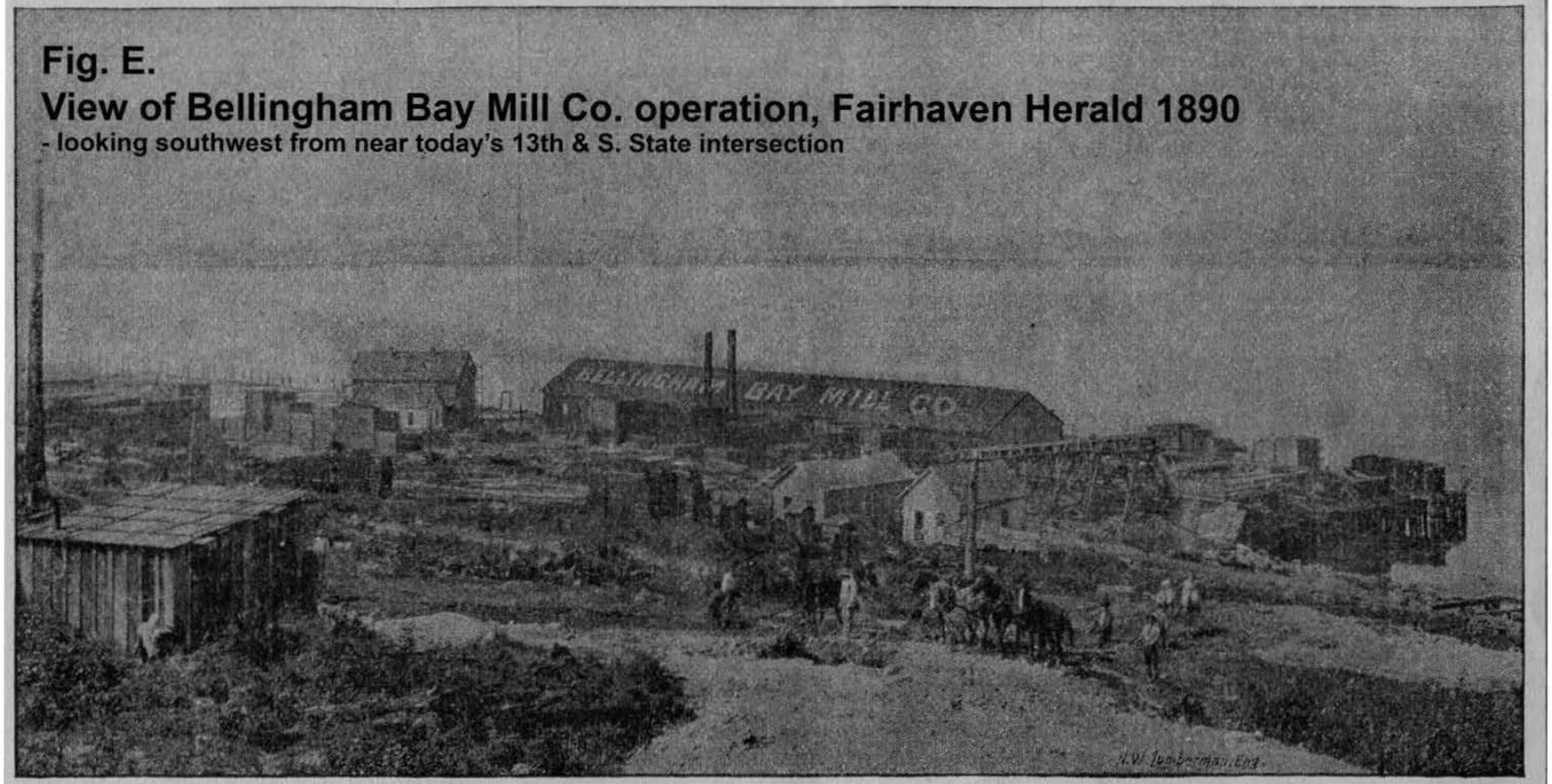


BELLINGHAM BAY COMPANY'S MILL, FAIRHAVEN.

Fig. E.

View of Bellingham Bay Mill Co. operation, Fairhaven Herald 1890

- looking southwest from near today's 13th & S. State intersection



BELLINGHAM BAY COMPANY'S MILL FROM THE NORTHEAST.

Fig. F.
Edited shoreline features mapped by USCGS in 1887, on 2002 orthophoto
- elevation contours & other selected content removed
- some structures sharpened

Fig. J.

1903 EKW mill image by the NPRW Co.

- today's park shoreline in green

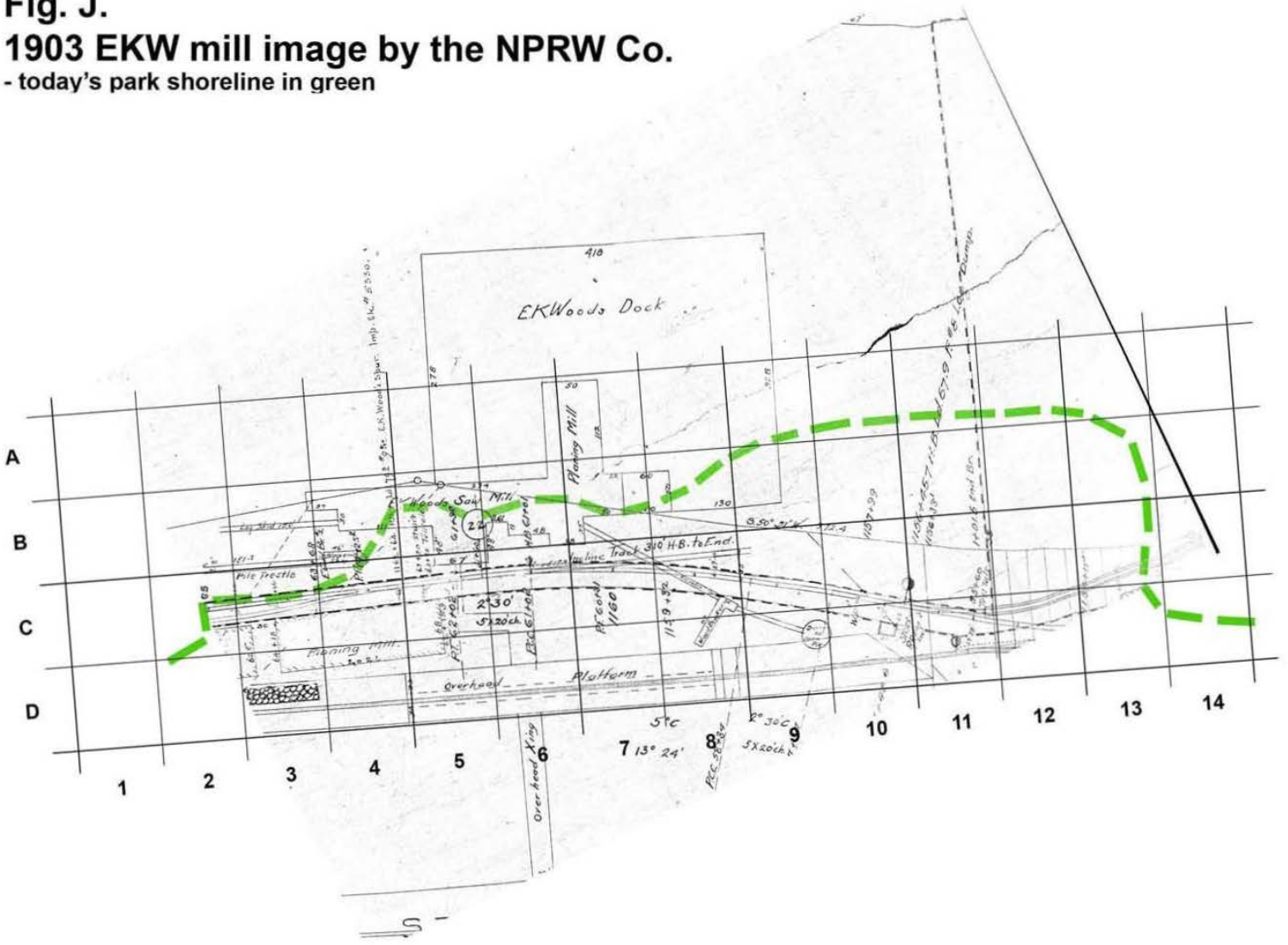
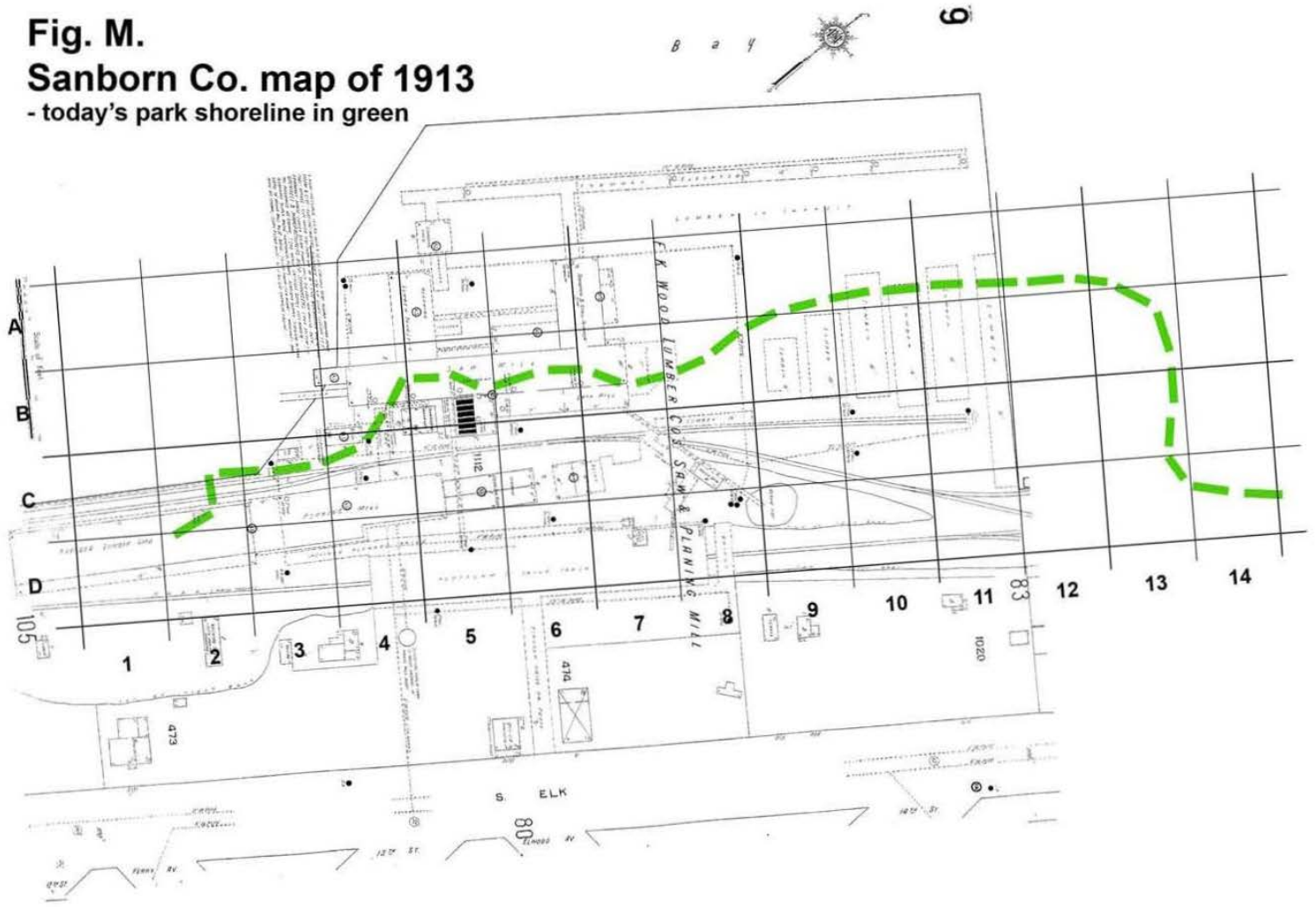


Fig. M.
Sanborn Co. map of 1913
- today's park shoreline in green



425.3B

423.311

STOP

ARCTIC
BOY

S State St
S State St
S State St
14th St
Boulevard Park

Boulevard Park Flooding, Storm Surge

Boulevard Park Erosion, on going

Boulevard Park Erosion, on going

Boulevard Park Erosion, on going

Create a Gravel & Sand Beach, Replace Rock Other Locations

- Improve public access
- Eliminate erosion problems (some maintenance required to replenish sand)
- Raise elevation at back of beaches to decrease storm surge impact on site
- Increase habitat areas (invertebrates, more organisms in the gravel = food for fish and birds)

What it could look like

Boulevard Park Shoreline
Looking South

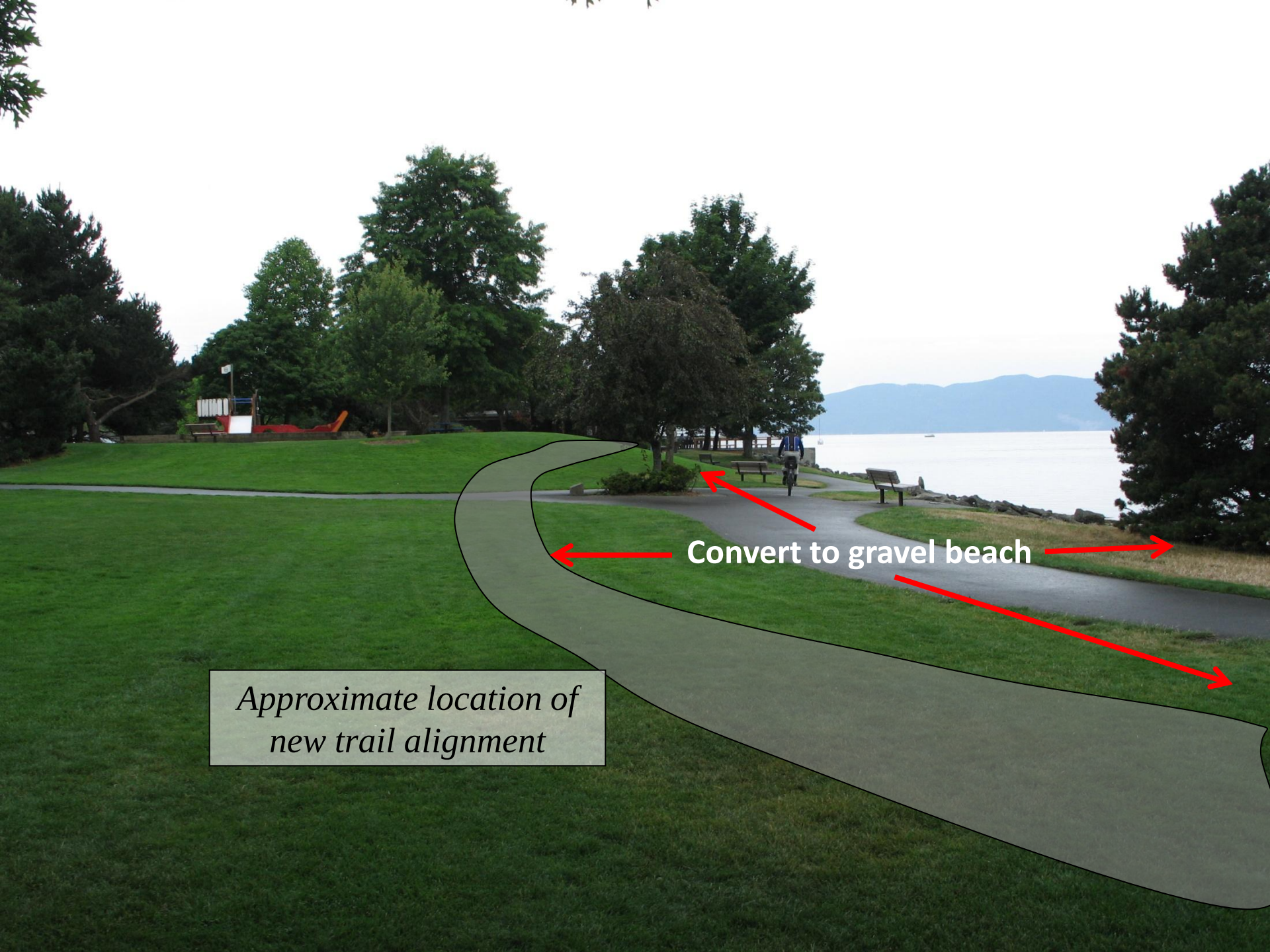
Marine Park Shoreline
Looking South

Marine Park Year 2002

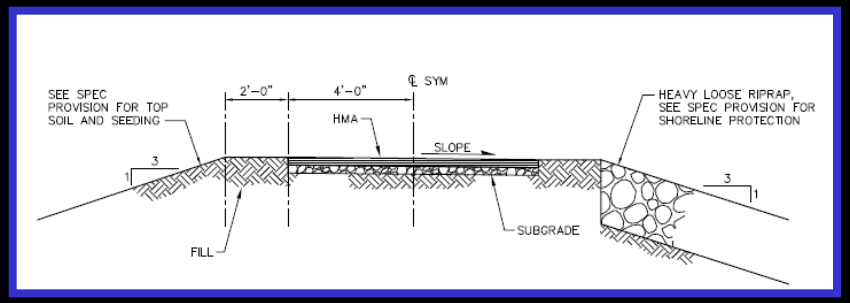
November 2004

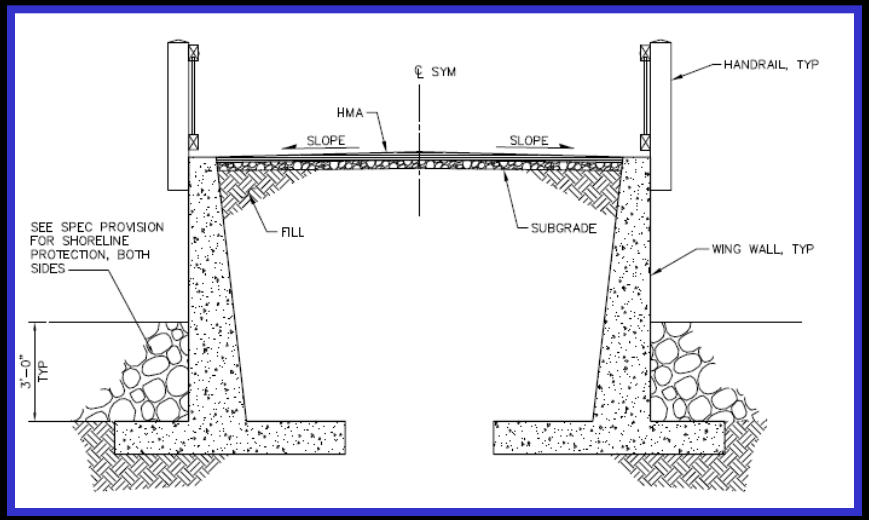
March 2010

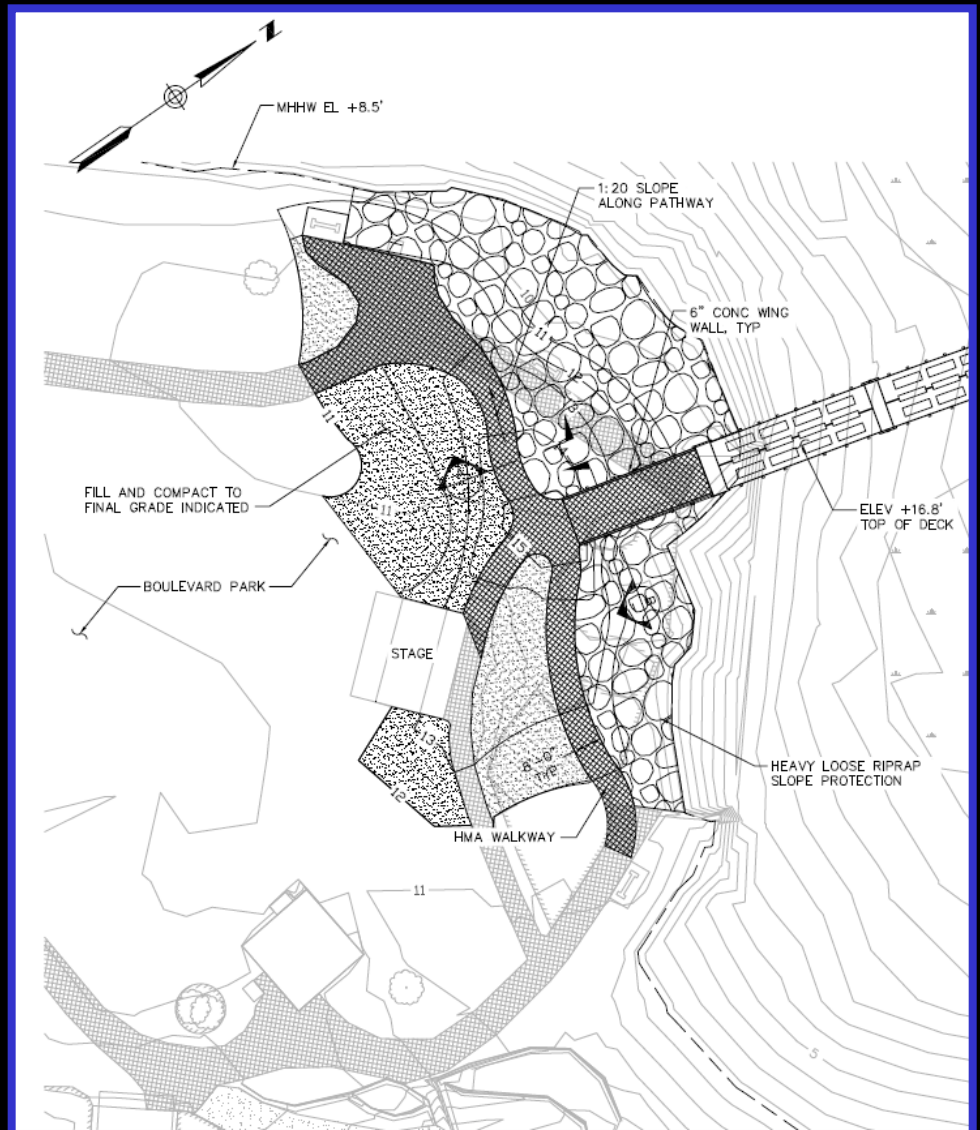
Example of Sandstone Groin


Convert to gravel beach
Approximate location of new trail alignment

Over Water Walkway Landing







Boulevard Park Shoreline Improvements Funding and Schedule

- Greenway III Levy $200,000
- Public Meeting June 26, 2008
- Feasibility Report Completed in 2008-2009
- Public Meeting January 26, 2011
- Possible Construction September 2011 or 2012

Questions and Comments?

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