

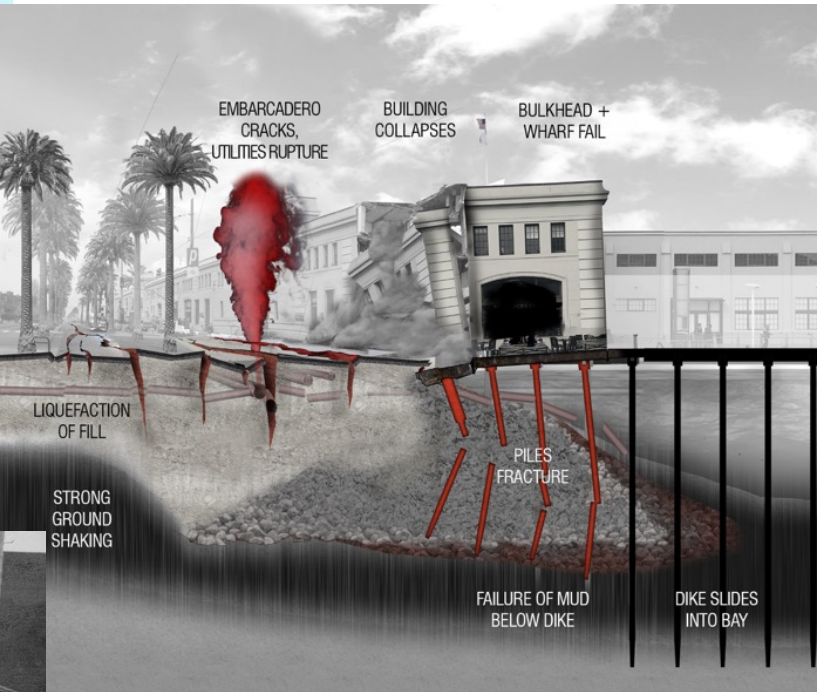
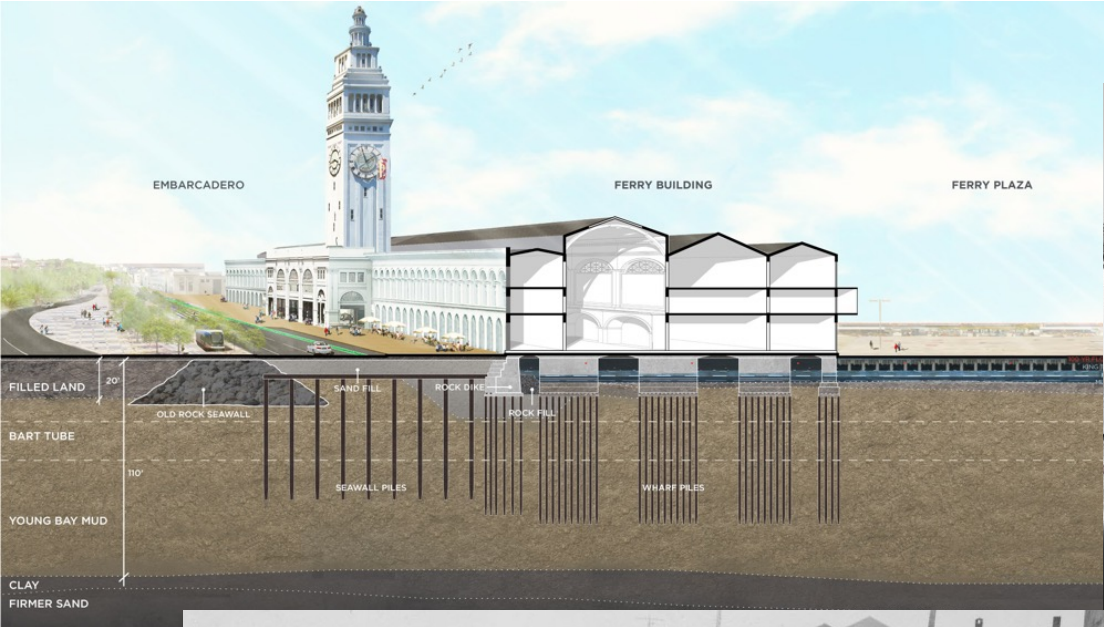


Sea Level Defense Conference
December 3, 2019

Brad Benson
Waterfront Resilience Director
Port of San Francisco

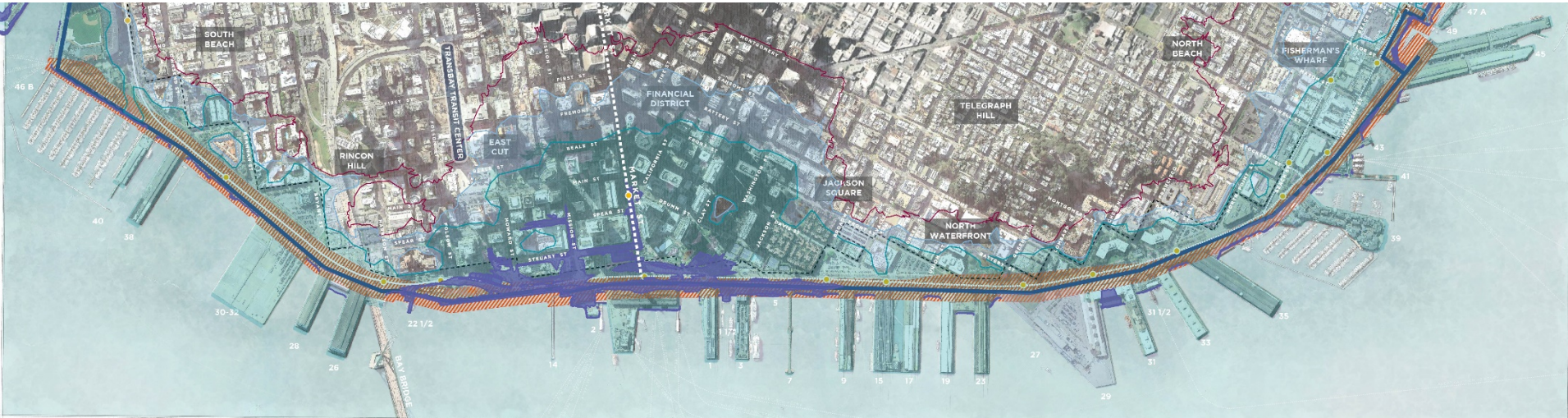
brad.benson@sfport.org
sfport.com

Problem – Complex Infrastructure & Weak Soils



Embarcadero – 1906

Problem – Future Flood Risk from 3 Sources: the Bay, Stormwater, Groundwater



TIME FRAME	AMOUNT OF SEA LEVEL RISE	TYPE OF FLOOD
NEAR (2030 - 2050)	1 FT. OF SLR	100 YEAR FLOOD 1% CHANCE PER YEAR
MID (2050 - 2100)	3 FT. OF SLR	100 YEAR FLOOD 1% CHANCE PER YEAR
LONG (2100 - 2140)	5.5 FT. OF SLR	100 YEAR FLOOD 1% CHANCE PER YEAR
H++ SCENARIO	10.2 FT. OF SLR	100 YEAR FLOOD 1% CHANCE PER YEAR

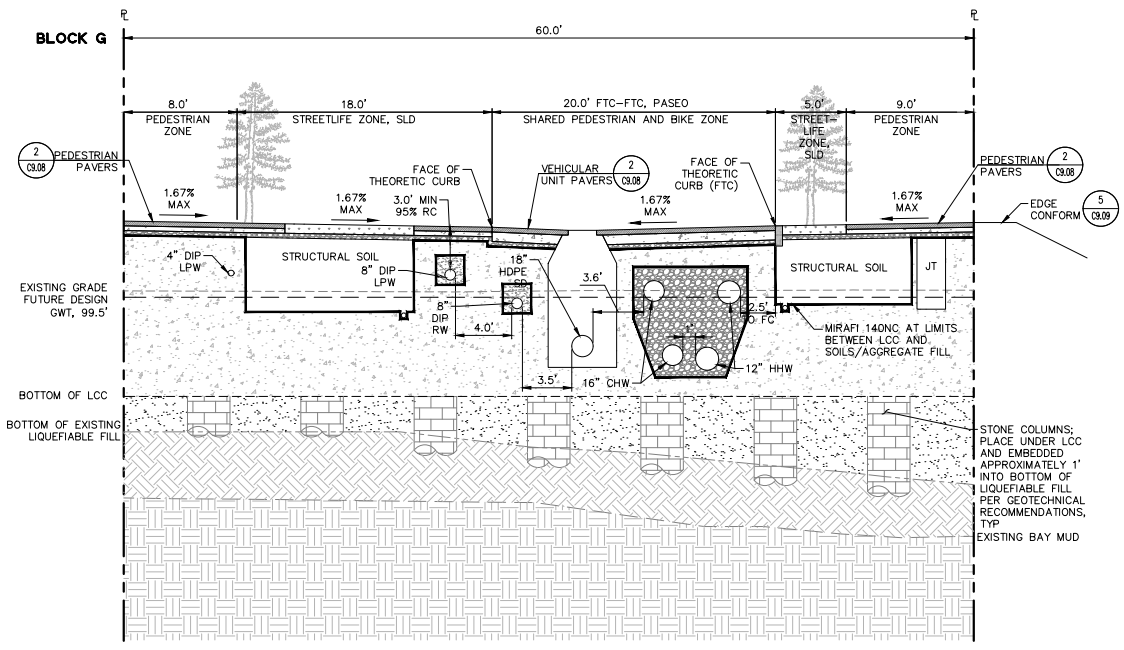
Promising Examples – Elevate Historic Structures



Promising Examples – Ecological Seawall



Promising Examples – Ground Improvements & Light Cellular Concrete



9
BRIDGEVIEW STREET (PORT OPEN SPACE)
NTS

