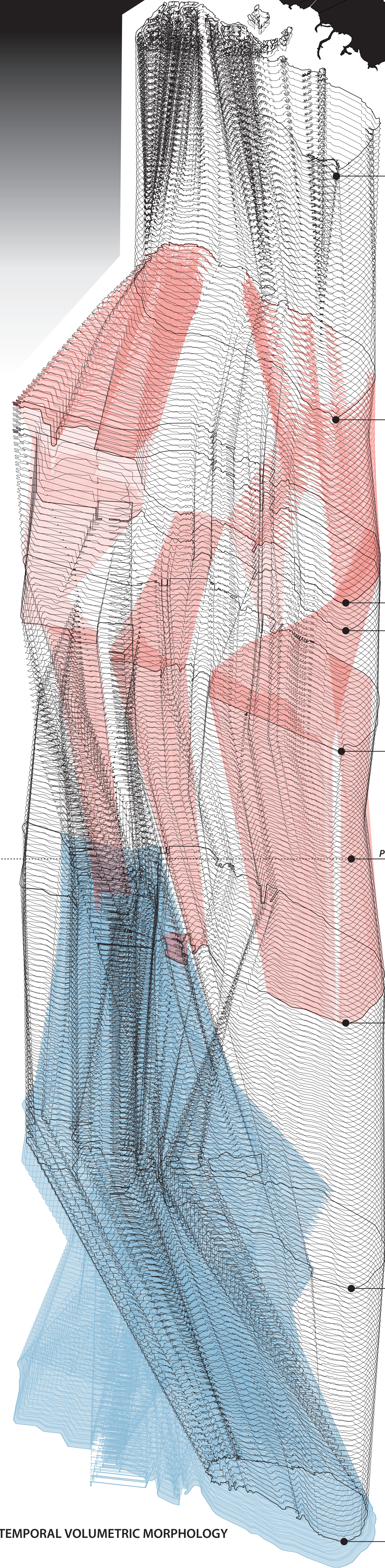
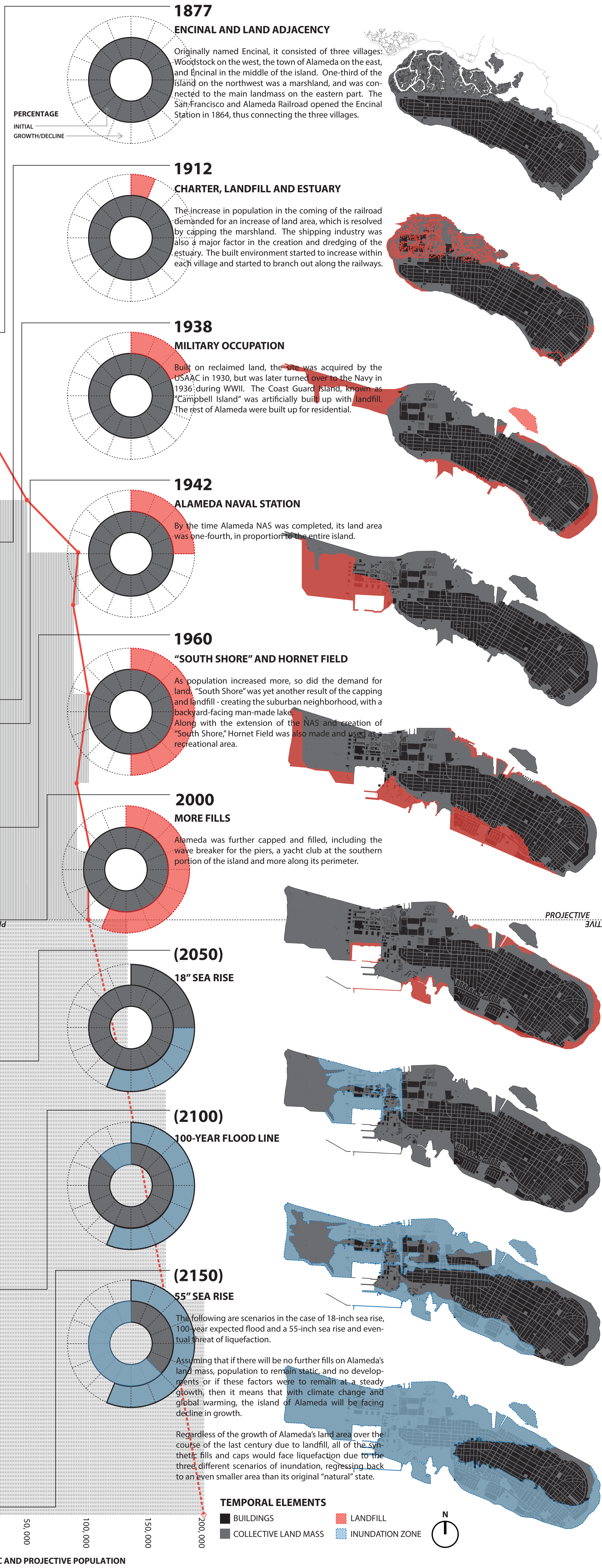


TEMPORAL MORPHOLOGY SYNTHETIC GROWTH + NATURAL DECLINE OF ALAMEDA ISLAND

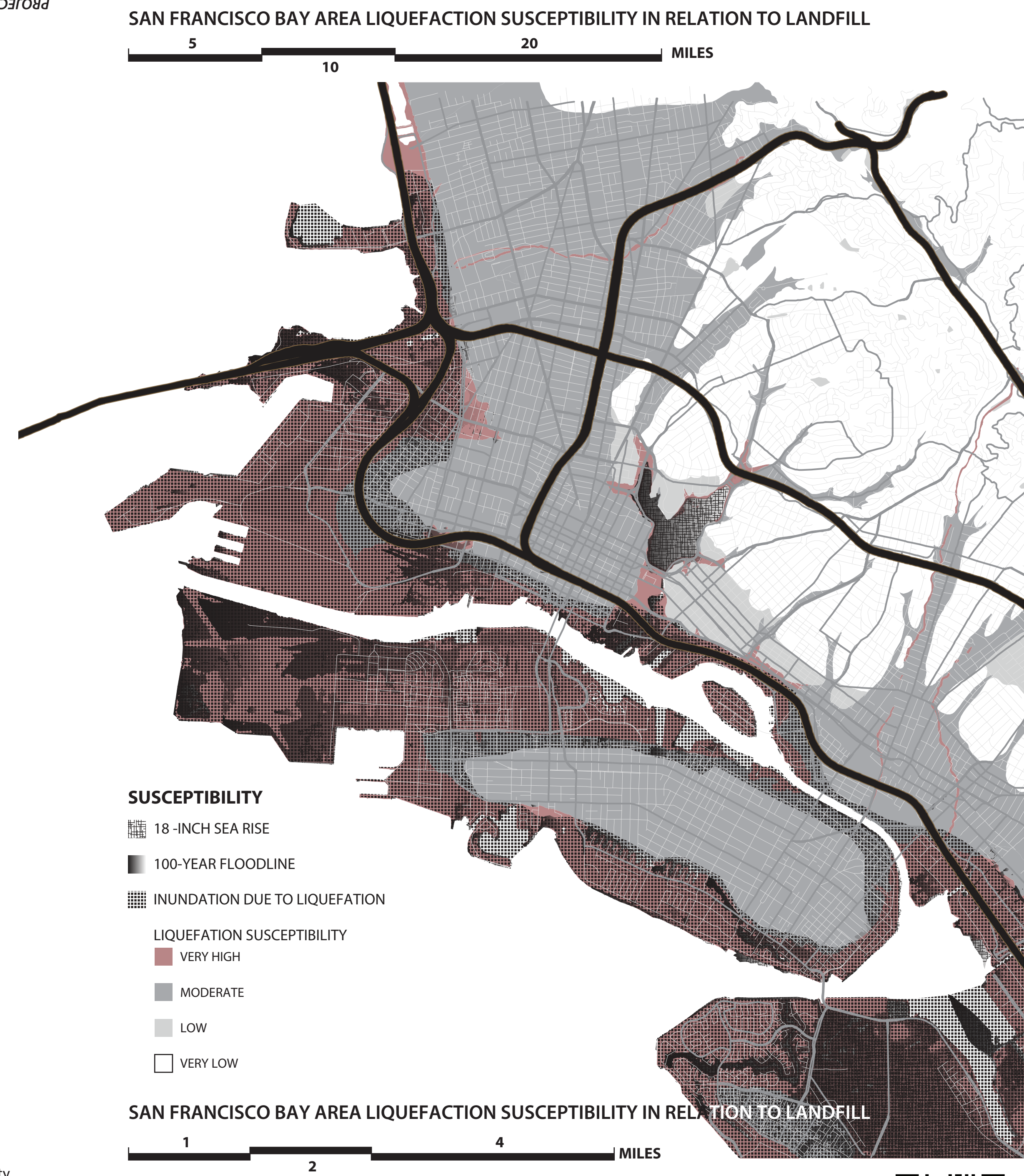
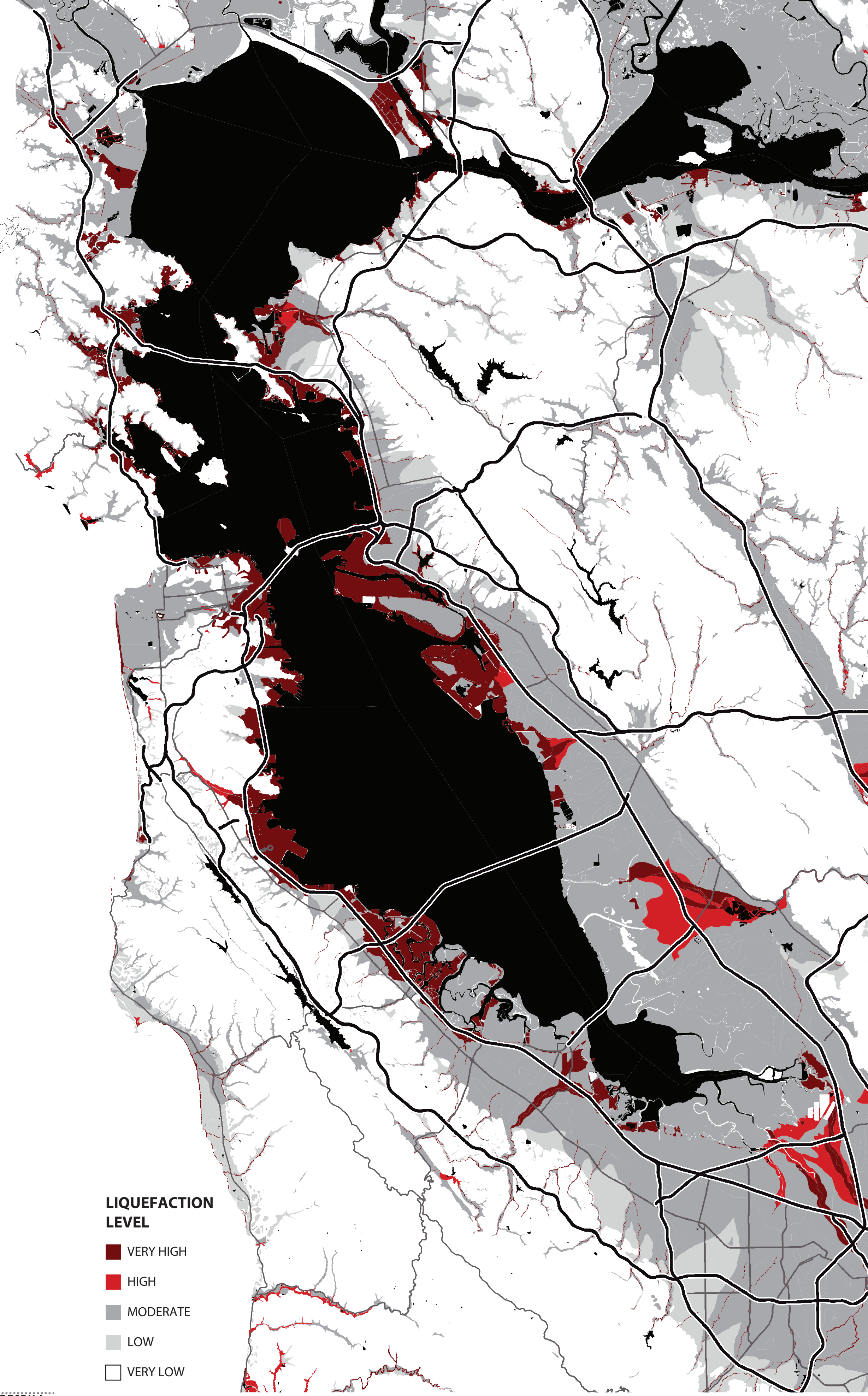
ALAMEDA



TEMPORAL VOLUMETRIC MORPHOLOGY



HISTORIC AND PROJECTIVE POPULATION



As we urbanize the landscape, we not only shape our environment, but in turn we shape society.

Inspired by Marcel Duchamp's Dadaist work entitled *Nude Descending A Staircase, No. 2*, the mapping technique is a dynamic representation of a landscape. It is a timeline (of the historic and the projected), revealing the morphology of the landmass' temporal volume, without the use of a time-based medium. The representation allows for a simultaneous viewing of a landscape's growth and decline, revealing the temporal undulations usually not seen in the processes of urbanization and other natural phenomena, which continues to shape our environment - dialectically shaping us.

Alameda, witnessed many stages of land growth due to constant land-fillings done for the creation of the Naval Air Station (by the Army Corps of Engineers) and additional residential zones. However, it is only recently that we learned that, projectively, these artificially built land areas are facing threat and susceptibility to liquefaction due to projected water level rise and anticipated flood plain; regressing to an even smaller area of the original island prior to landfills.

Using vectors of existing geographic information, one would be able to interpolate a general form of the landscape over a period of time. The representation is most helpful to view the dialectical production of "natural" and "synthetic" environments.

Current GIS data of Alameda, projected inundation levels and a combination of historical maps enabled the generative creation of the cohesive map timeline with a series of interpolated land profiles between historical, current and projective maps. Although, the interpolated maps were not the actual form of the landscape, these nonetheless still give a general overview and knowledge of what the landform may potentially have been in history, if no recording was made.

Each vector profile of the island is equivalent to a year in time, where the acquired maps are placed in a specific point in time and serves as the framework for the generated interpolated profiles. Additional notations to highlight the addition of landfill over time (in red) and also the decline due to inundation (in blue).

BIBLIOGRAPHY

- Alameda Historical Information**
<http://www.alamedanavalairmuseum.org/History/NAS.aspx>
- GIS Data**
Present Alameda Building Footprints <https://www.acgov.org/government/geospatial.htm>
- Historic and Projective Maps**
(1877) "Map of Oakland, Alameda and Vicinity, Showing Plan of Streets as Opened and Proposed" <http://www.davidrumsey.com/luna/servlet/detail/RUMSEY-8-1-205210-300234>
(1938) "Map of Oakland, Berkeley, Alameda, San Leandro, Piedmont, Emeryville, Albany" <http://www.davidrumsey.com/luna/servlet/detail/RUMSEY-8-1-248517-5515942>
(2150) "Inundation Map: Oakland, Alameda" http://www.conservation.ca.gov/cgs/geologic_hazards/Tsunami/Inundation_Maps/Alameda/Documents/Tsunami_Inundation_OaklandWest_Quad_Alameda.pdf
(2150) "Inundation Map: Berkeley, Emeryville, North Oakland, North Alameda" http://www.conservation.ca.gov/cgs/geologic_hazards/Tsunami/Inundation_Maps/Alameda/Documents/Tsunami_Inundation_OaklandEast_Quad_Alameda.pdf
- Historic and Present Aerial Images**
(1940) "A 1940 aerial view showing NAS Alameda under construction" http://www.airfilers.com/CA/Alameda_CA_40_constr.jpg
(2010) "Present San Francisco Bay Area Aerial" <http://cdn-www.airfilers.net/aviation-photos/photos/0/0/6/1482600.jpg>

