



US Army Corps
of Engineers®
New York District

NY-NJ HATS – EAST RIVER @ HURON STREET (GREENPOINT) SEAWALL CONCEPT

EXISTING CONDITION (ACTUAL PHOTO)



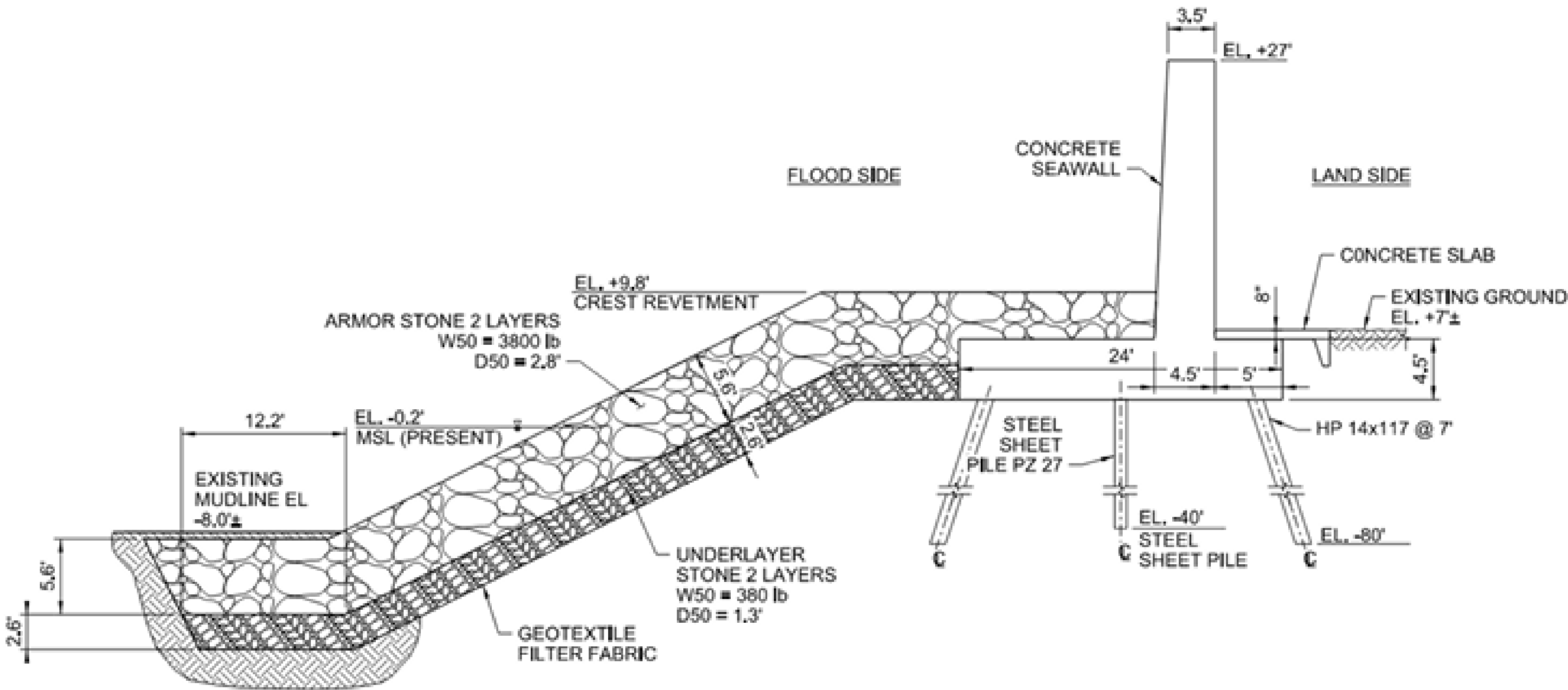
PROPOSED CONCEPT (DIGITAL RENDERING)



SEAWALL DESCRIPTION

The prototypical design for the seawall is composed of a rubble mound structure on the seaward side and a pile supported concrete floodwall on the landward side. For this study, it was assumed that a rubble mound with two layers of 2.8-foot diameter armor stone and two layers of 1.3-foot diameter underlayer stone with a slope of 2 (Horizontal):1(Vertical) would provide sufficient stability. The underlayer would be on top of a geotextile; the geotextile would protect the underlying base material or soil from erosion by waves and currents. The toe has a width of 12.2 feet. The floodwall has an inverted T-shape reinforcement concrete structure with a base of 4.5foot thick, battered H-piles and vertical steel sheet pile cut-off wall. The top of the floodwall is at El. 27' and the design existing ground elevation is at El. 7'. Actual elevations will vary across the study area, but for this conceptual phase of the analysis, it was considered a reasonable elevation representative of the conditions of application within the study area.

TYPICAL SEAWALL CROSS-SECTION



LOCATION MAP



DISCLAIMER: These renderings are artistic depictions of the features in NYNJHAT Study Tentatively Selected Plan (Alternative 3B) as of September 2022. **They are initial concepts used for illustrative purposes only and are subject to change.** The renderings are intended to promote a discussion of the study objectives and potential coastal storm risk management solutions. The selection of the final plan elements will be determined during the Pre-Construction, Engineering, and Design phase, and will incorporate stakeholder feedback that was obtained during the study's public comment period.