

US Army Corps  
of Engineers®  
New York District

# NY-NJ HATS – RED HOOK (COFFEY ST & FERRIS ST) FLOODWALL CONCEPT

**EXISTING CONDITION (ACTUAL PHOTO)**



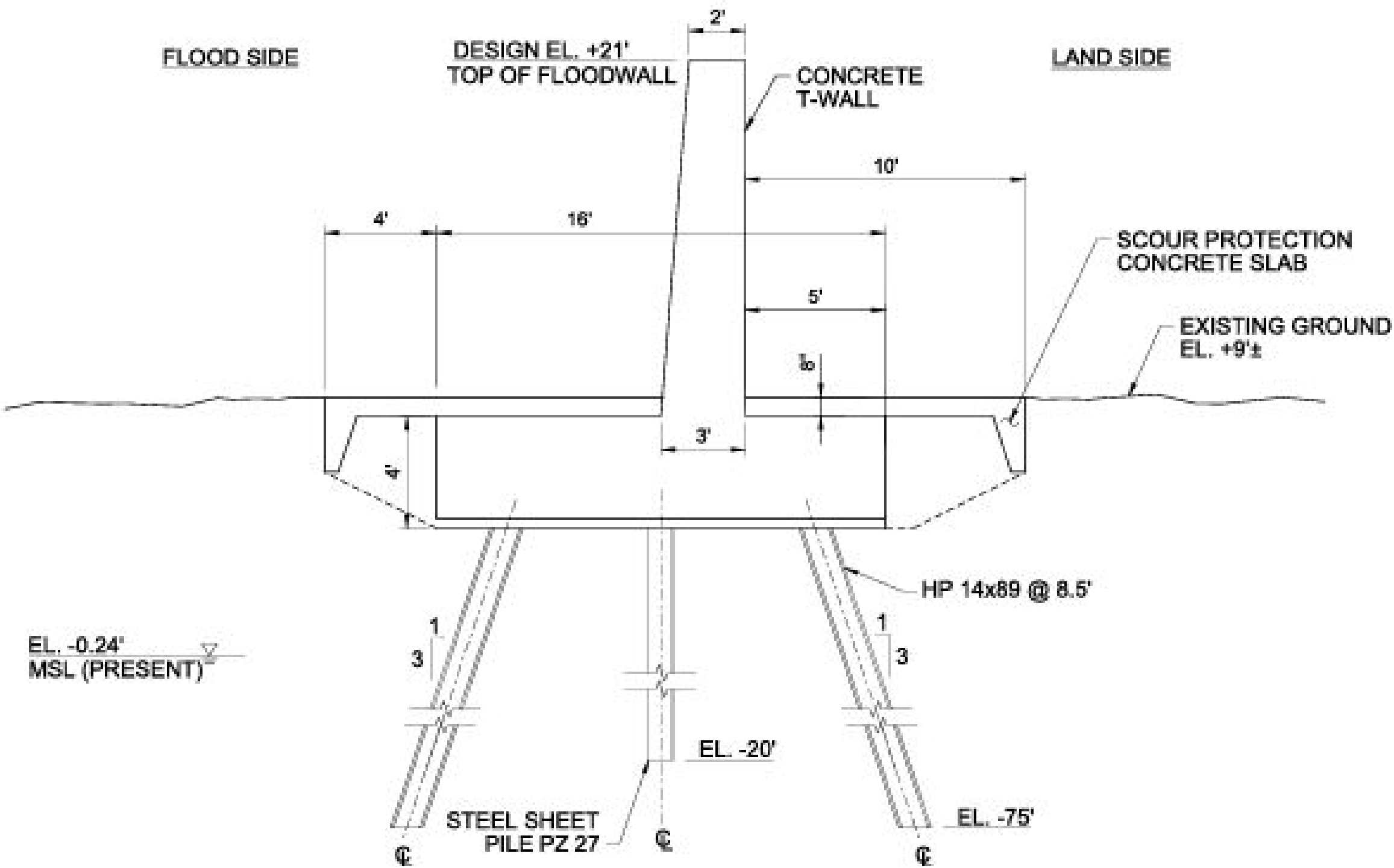
**PROPOSED CONCEPT (DIGITAL RENDERING)**



## FLOODWALL DESCRIPTION

Floodwall systems are independent, single purpose structures that aim to provide flood risk reduction. A floodwall is typically a reinforced concrete structure supported on steel H-piles, which can incorporate a steel sheet pile cut-off wall as a seepage control measure. Based on the range of existing site elevations and required design elevations, a total of three types of prototypical floodwall were developed for NYNJHAT Study. Three of the floodwalls were developed as regular SBMs and were labeled as “medium”, “large”, and “extra-large”. All three types of floodwall are composed of an inverted T-shape reinforced concrete structure with a base of 4-foot thick, battered H-piles and a vertical steel sheet pile cut-off wall. For the medium, large, and extra-large floodwalls, the existing ground elevations were assumed to be El. 12’, El. 9’, and El. 6’; the top of the wall elevations were set at El. 18.5’, El. 21’, and El. 22.5’.

## TYPICAL LARGE FLOODWALL 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.