



Port of Long Beach–Middle Harbor Dredge and Fill Project

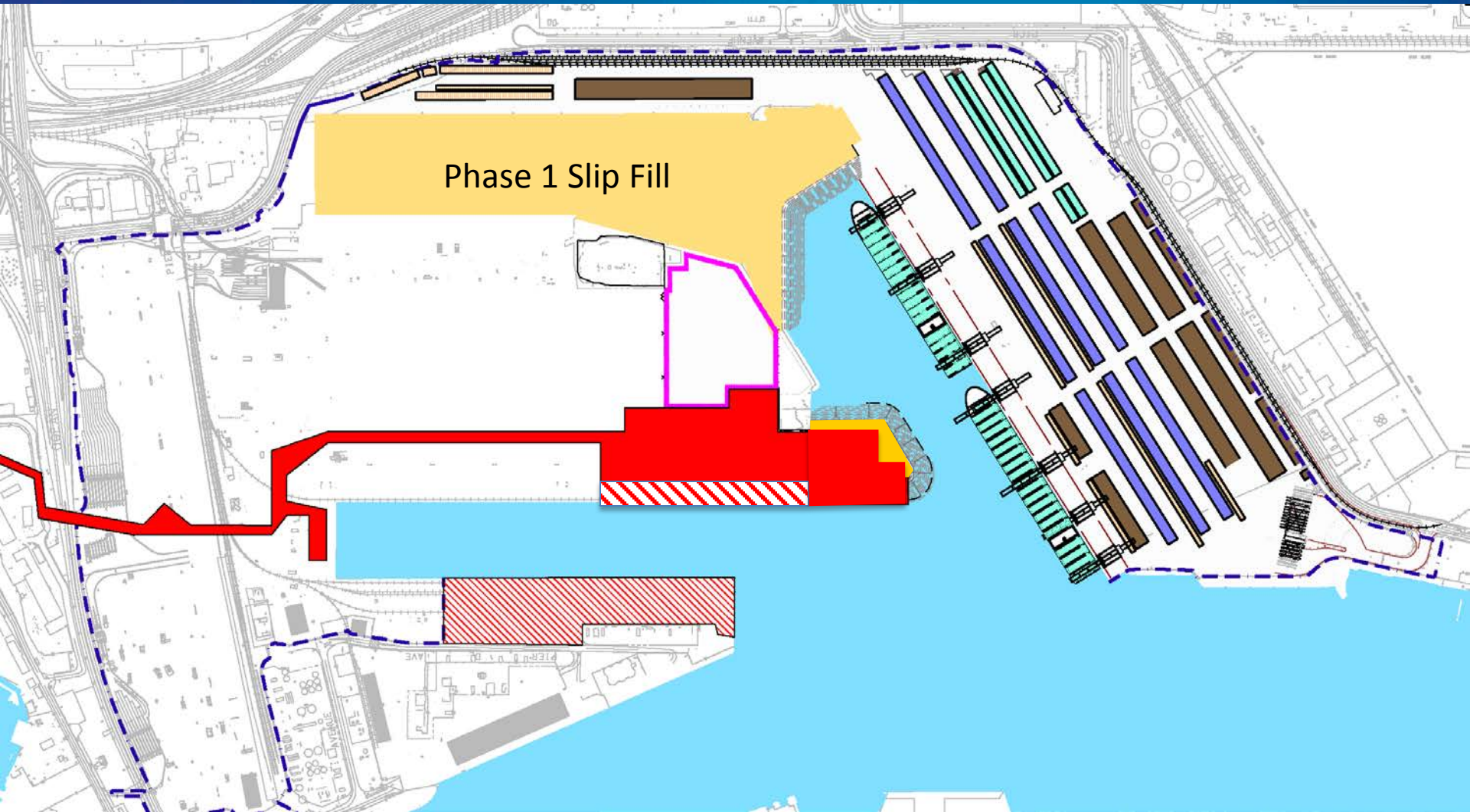


Tom Baldwin, Program Manager

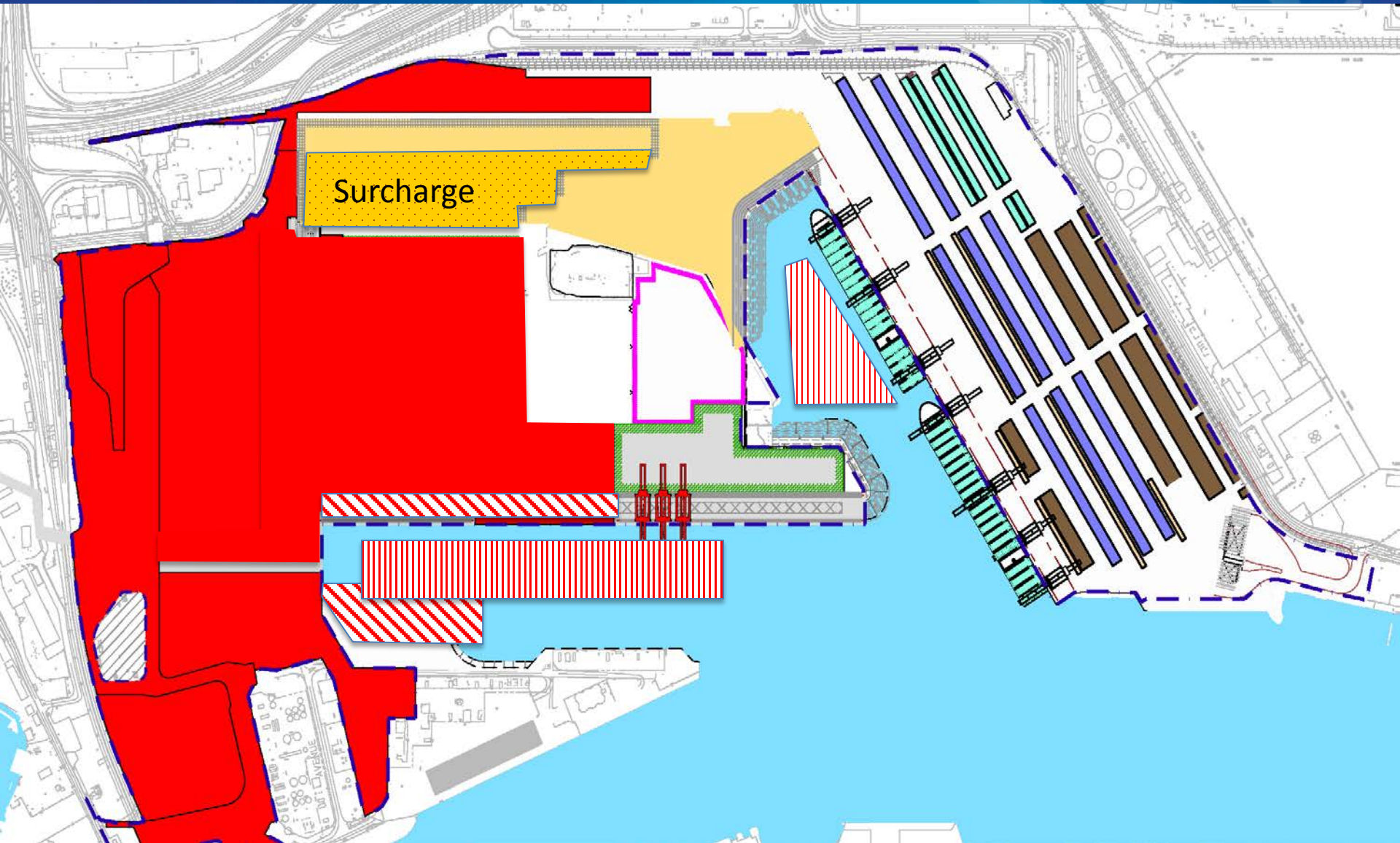
Middle Harbor Redevelopment Program

- 
- \$1.2 billion program budget
 - Improves terminal efficiency through automation
 - Reduces pollution 50%
 - Creates 14,000 new jobs

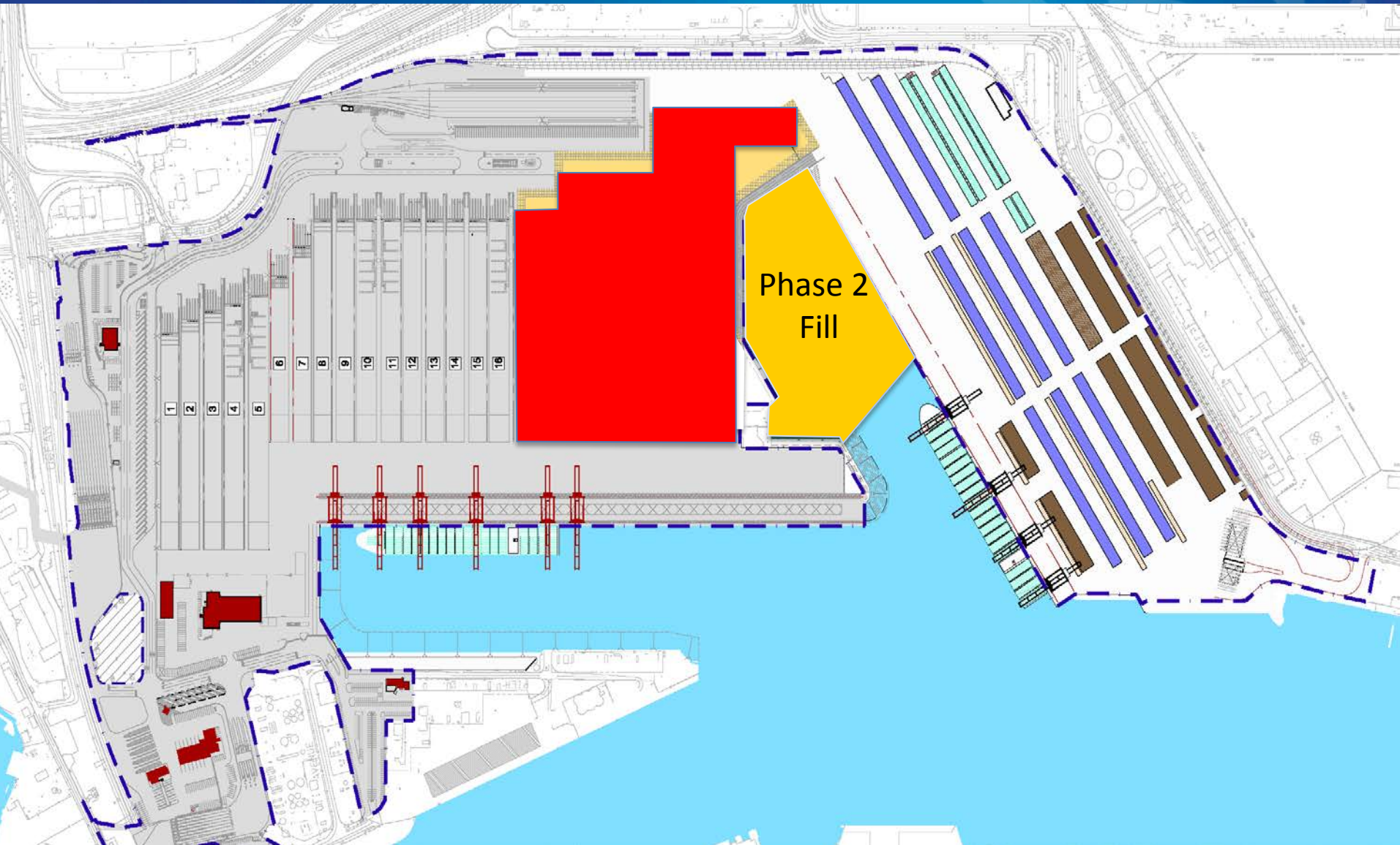
Phase 1 Construction (Start April 2011)



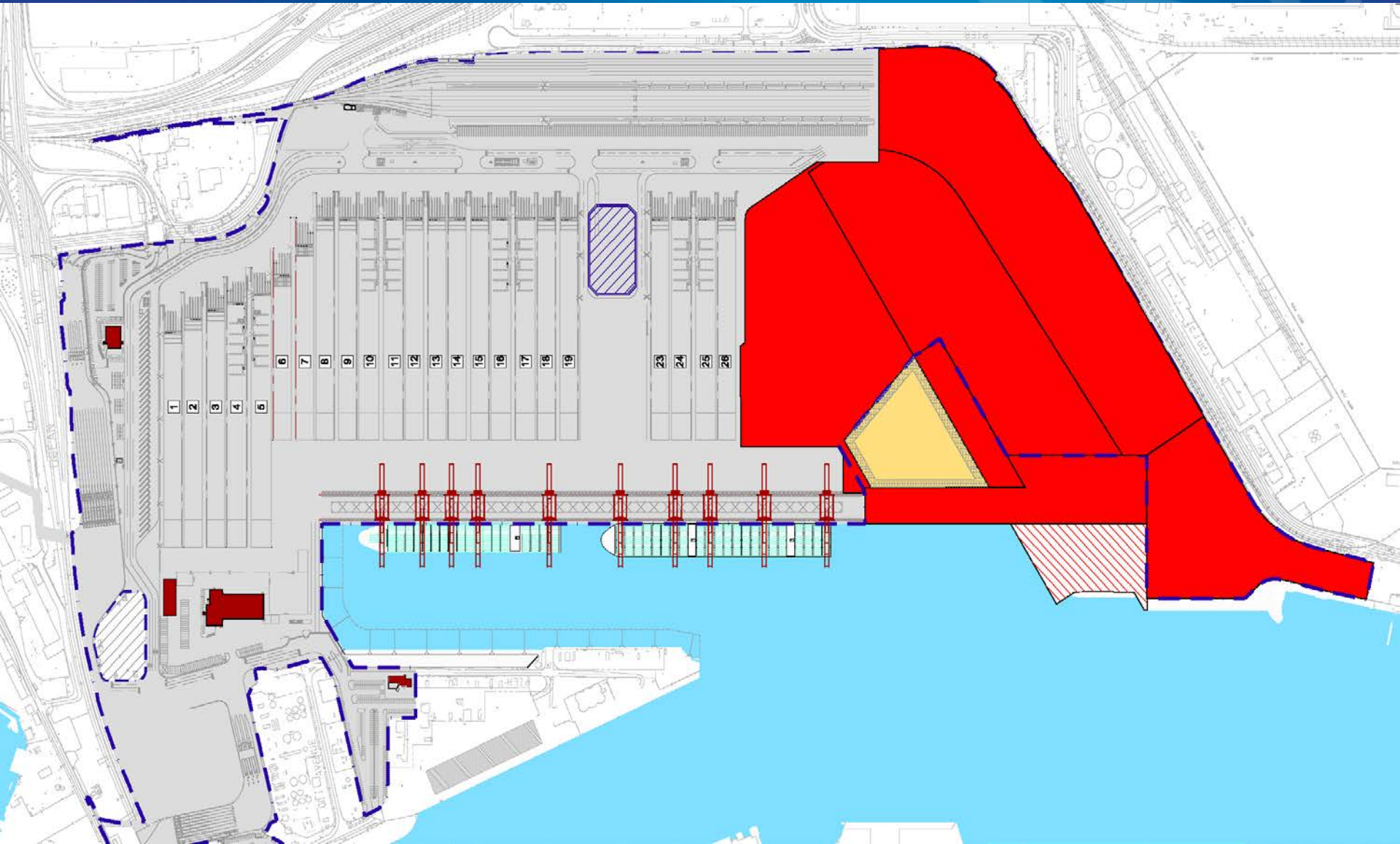
Phase 1 Construction (Late 2013)



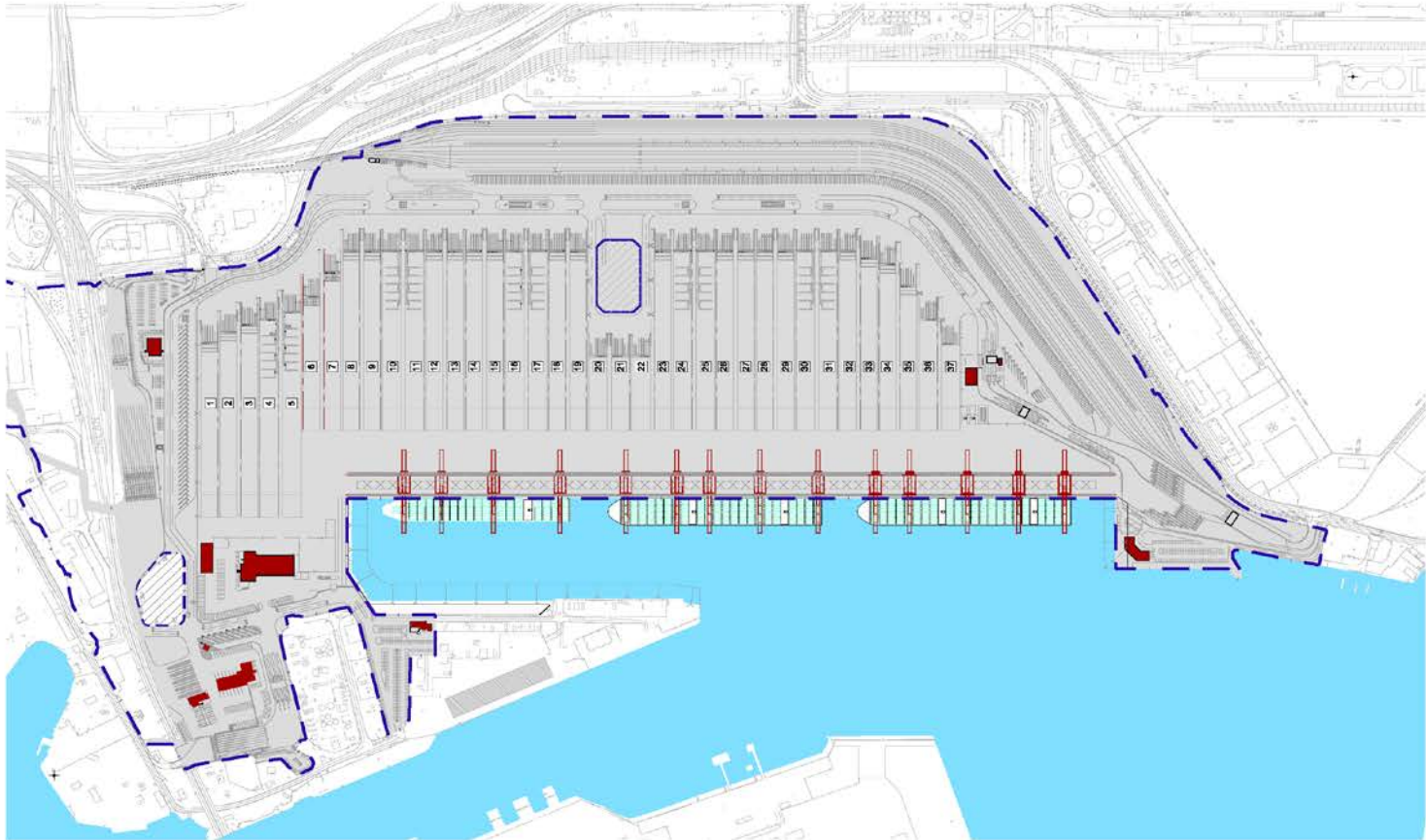
Phase 1 Construction (Start Early 2015)



Phase 2 Construction (2016 -2019)



Complete Build Out (Late 2019)

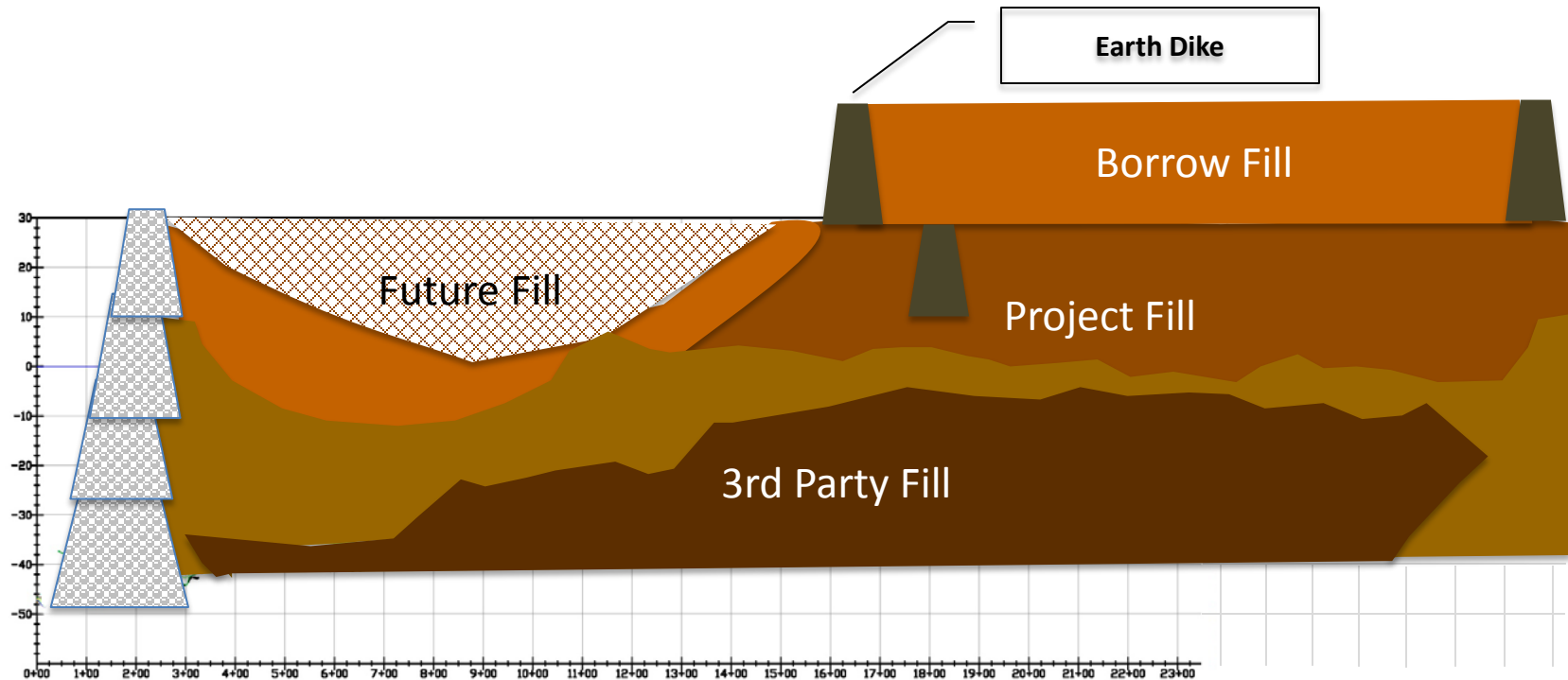


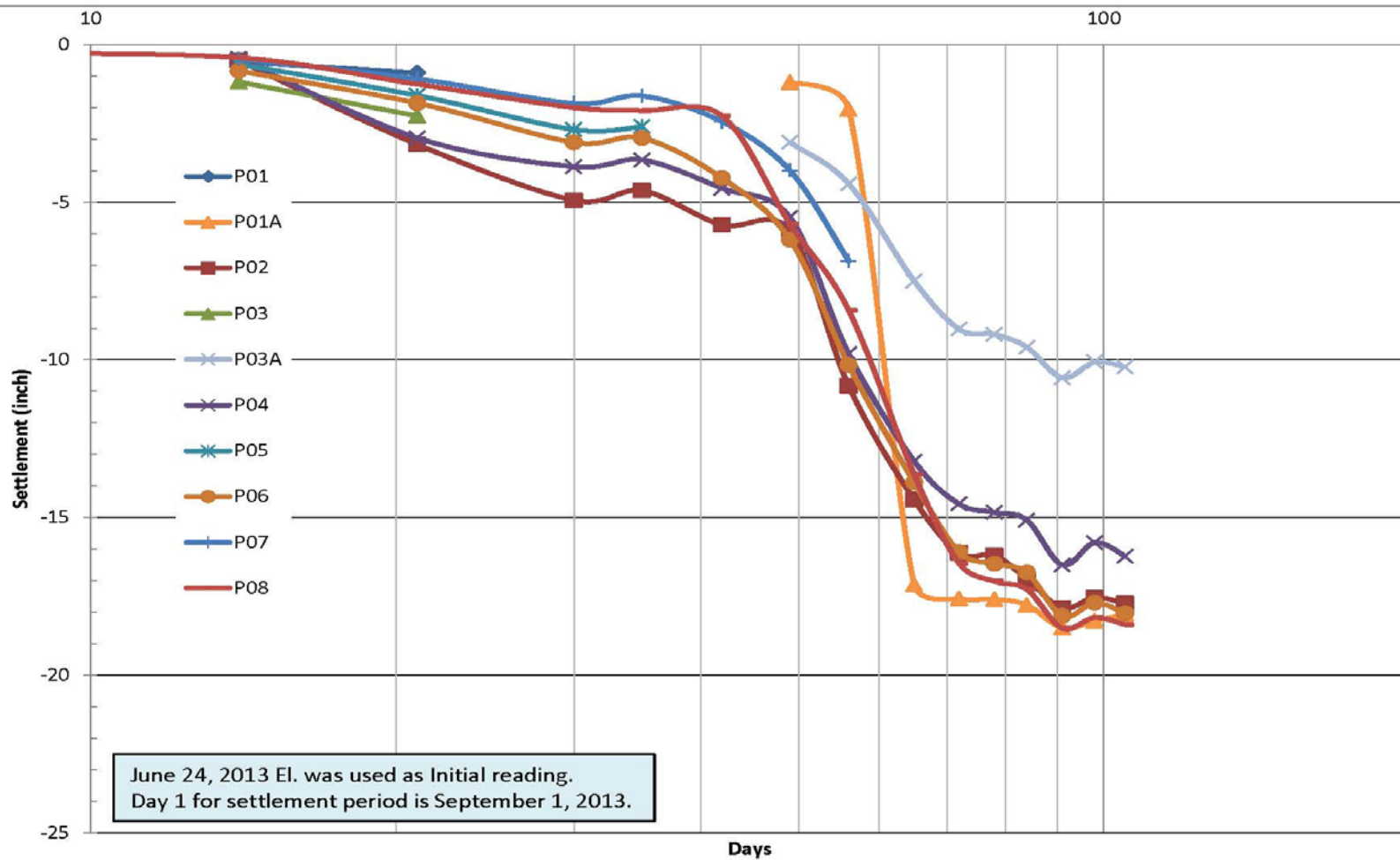
Phase 1: Slip 1 Fill Material

Required approx. 4,000,000 cy of fill material

- 1,900,000 cy generated from Middle Harbor Projects
- 900,000 cy from 3rd party material
- 400,000 cy from other Port and outside projects
- 800,000 cy from approved borrow locations within the project site

Phase 1: Slip Fill Section



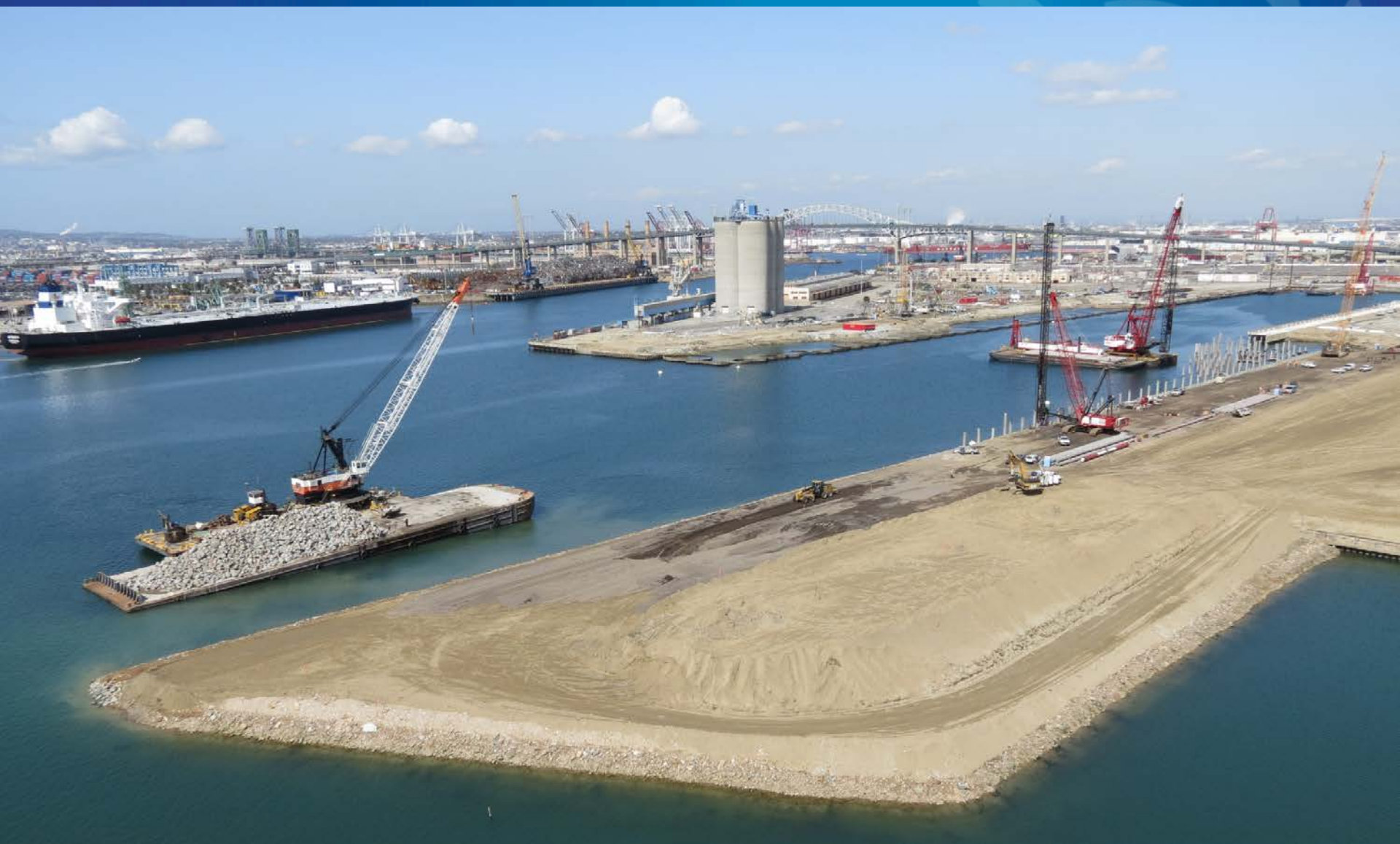


**Settlement Plate Data for Wicked Area
(P01 to P08)**

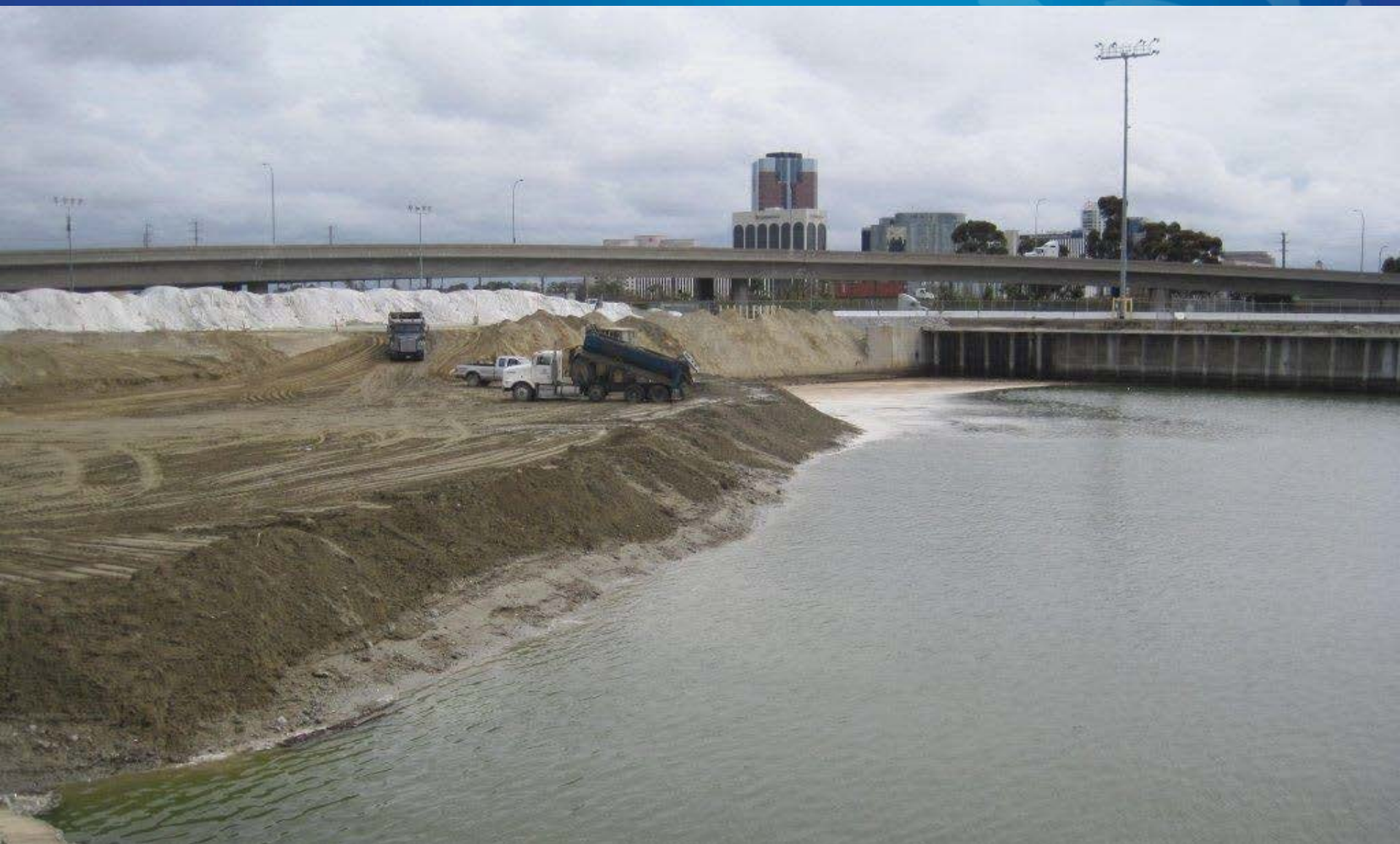
Phase 1: Construction



Phase 1: Pier E Extension Fill



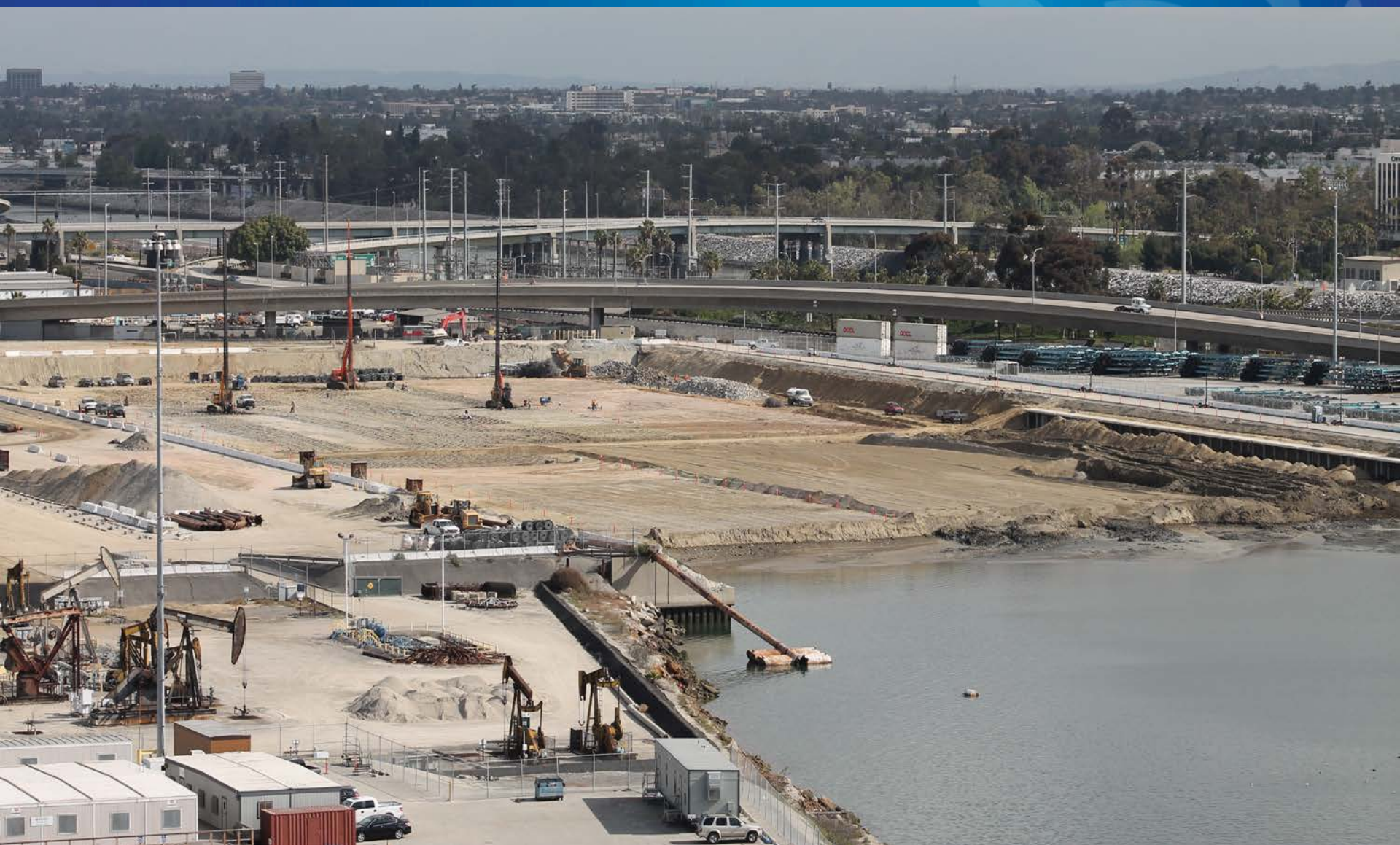
Phase 1: North End of Slip Fill

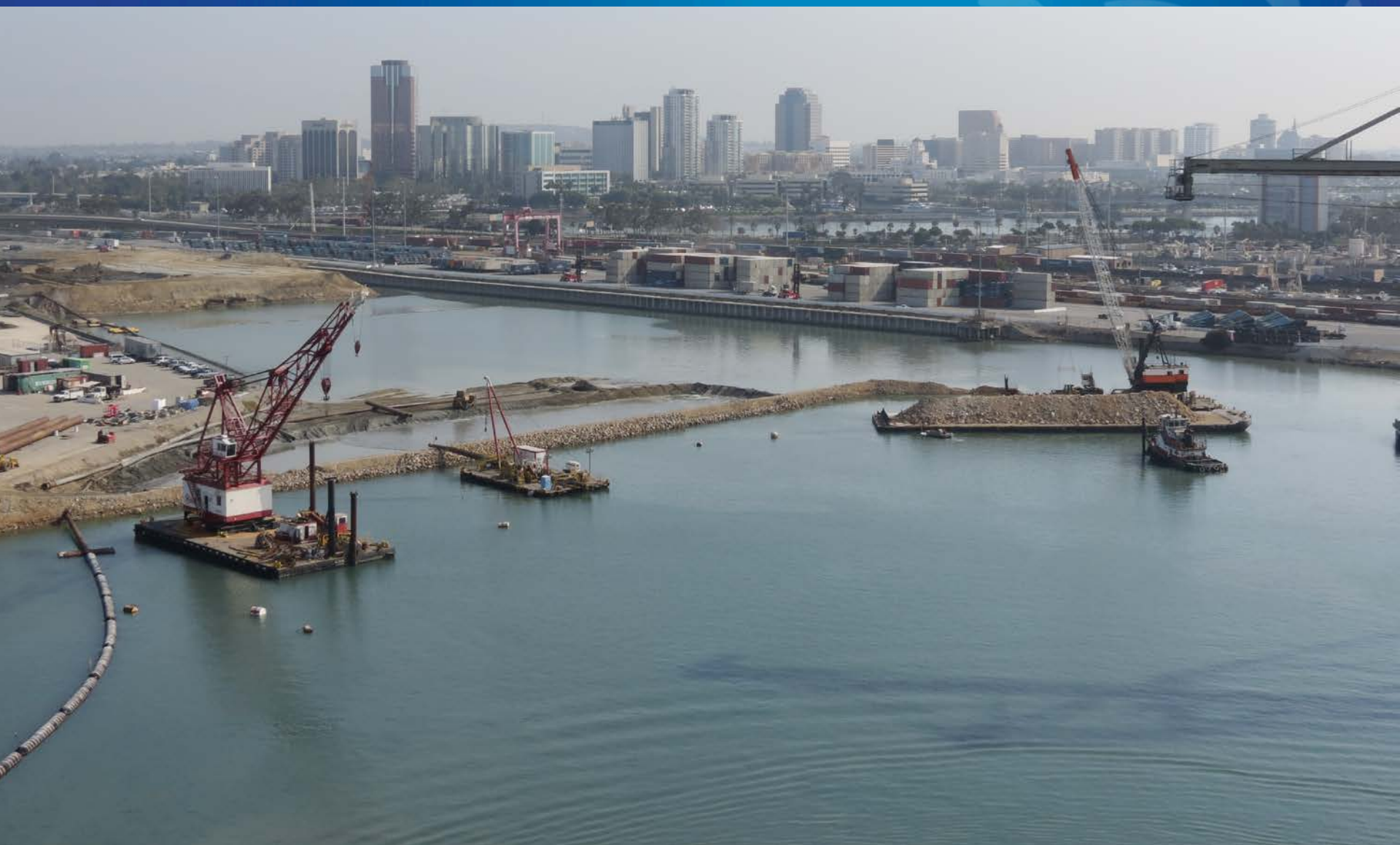


Phase 1: Hydraulic Dredging of Slip 3



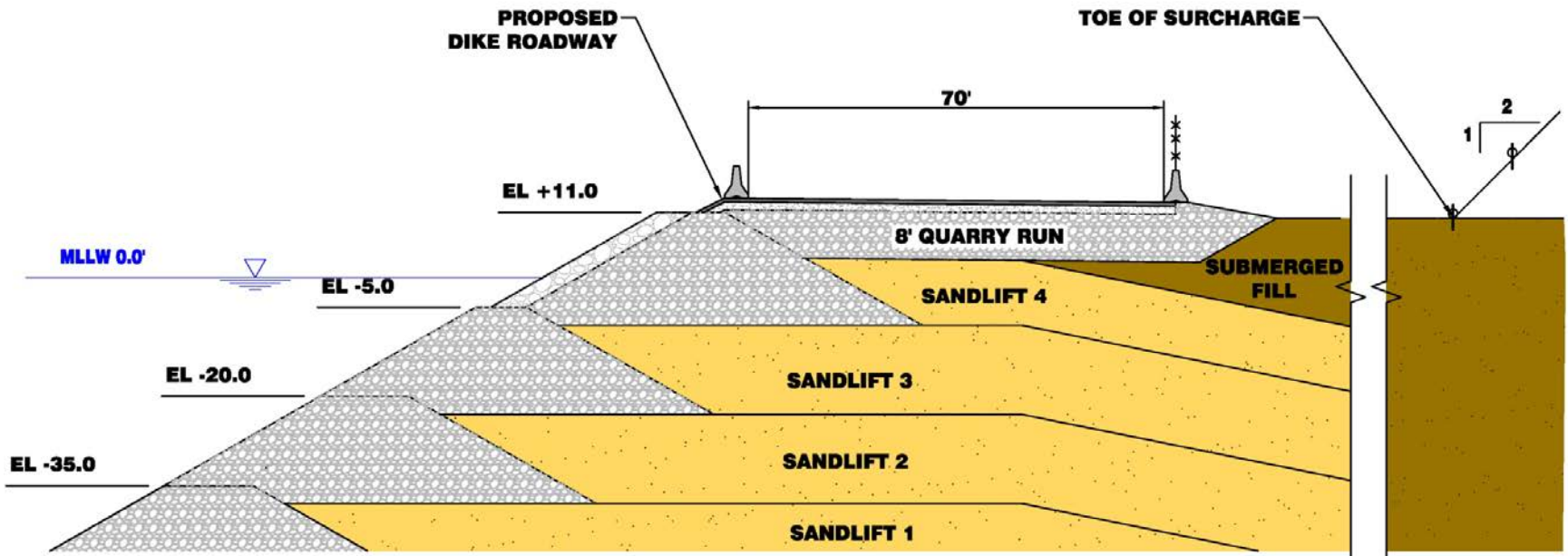






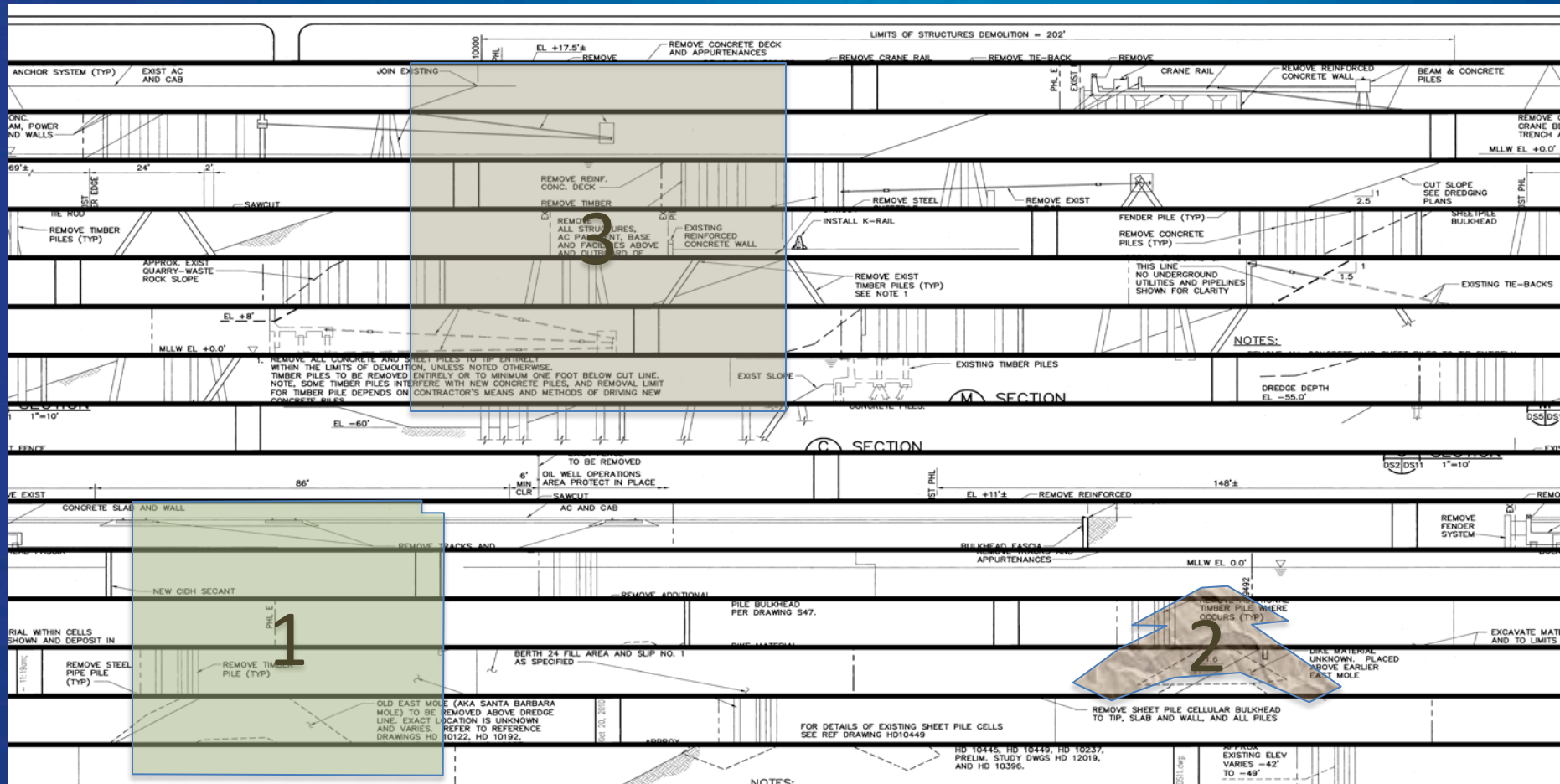


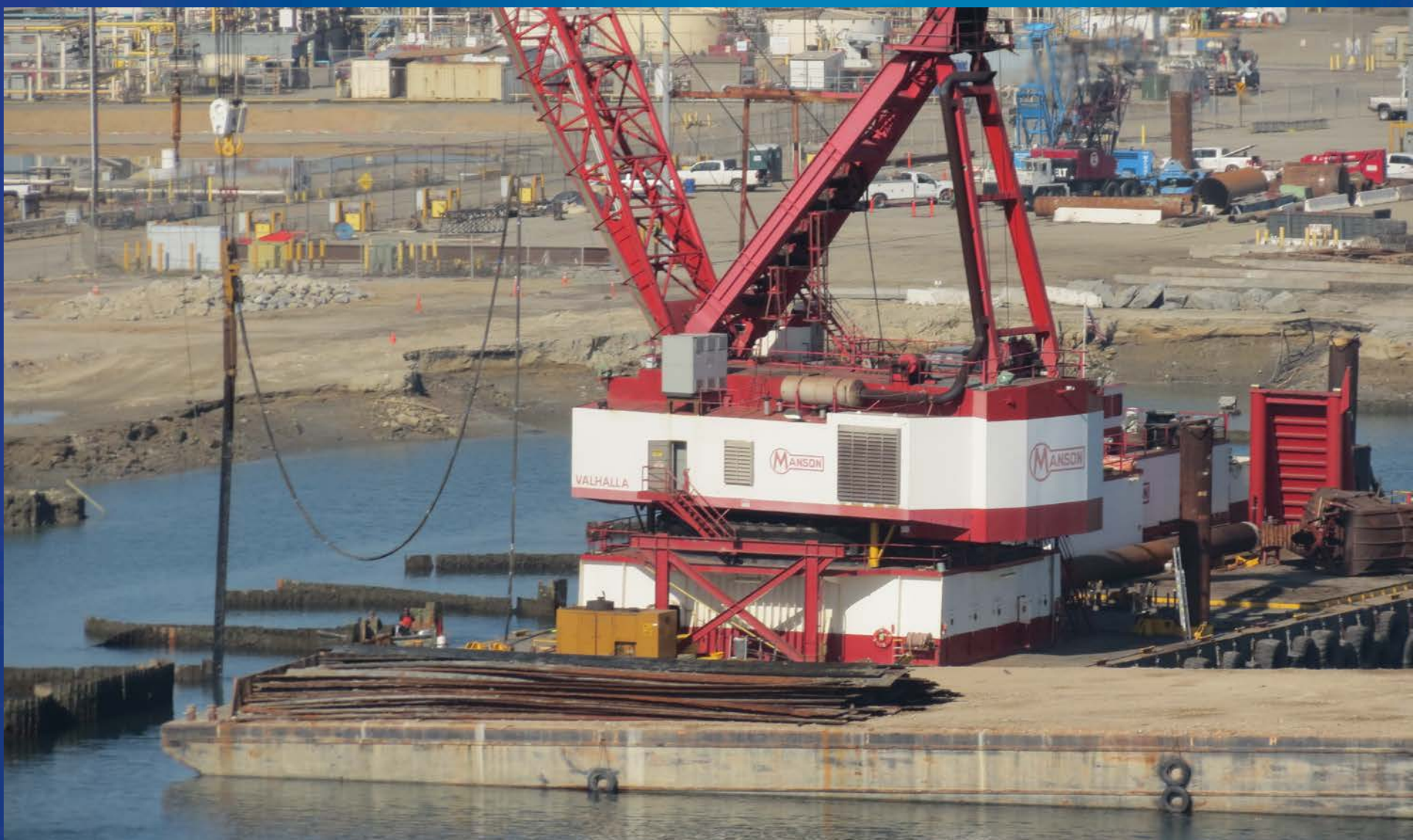
Typical Dike Section View

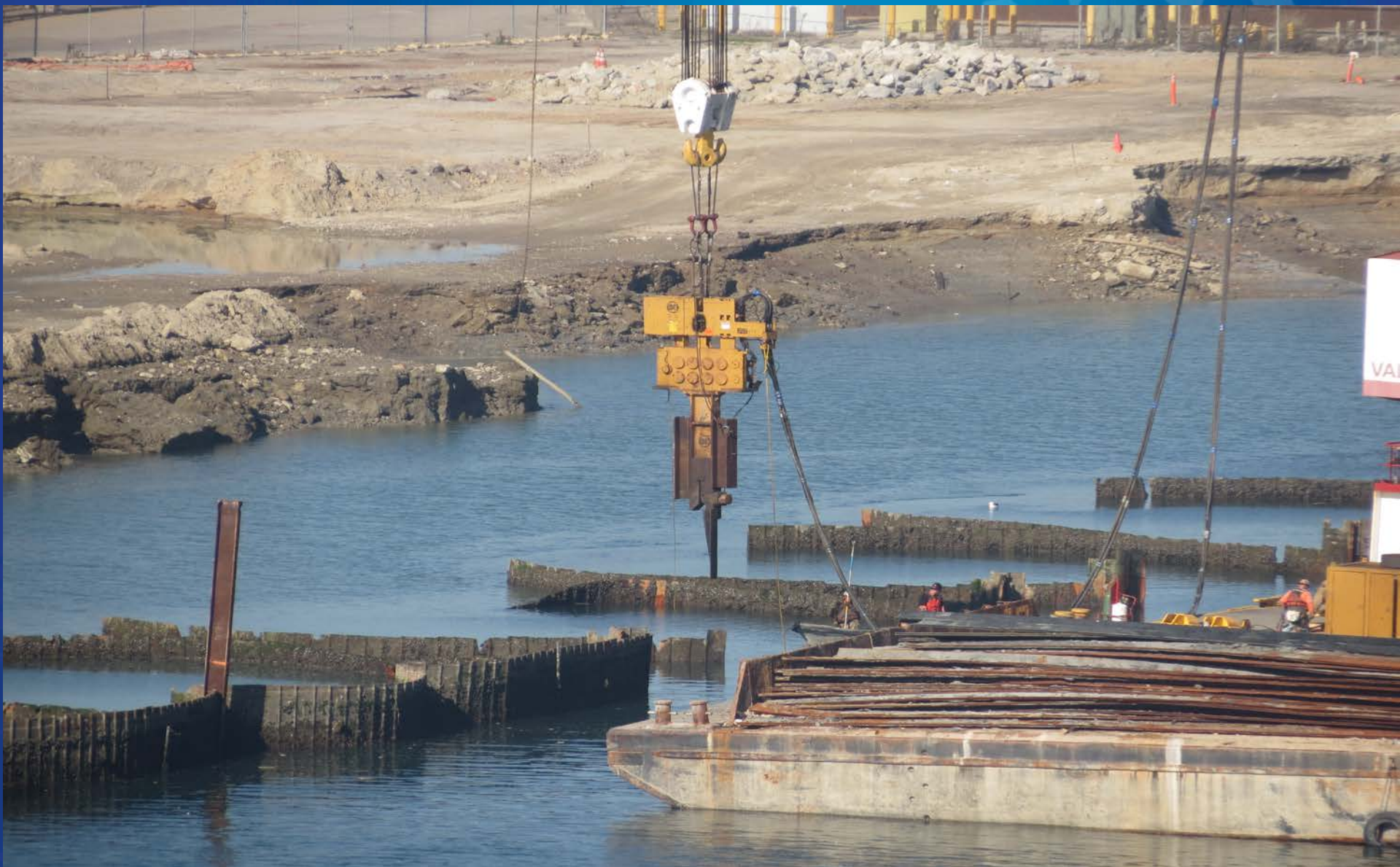




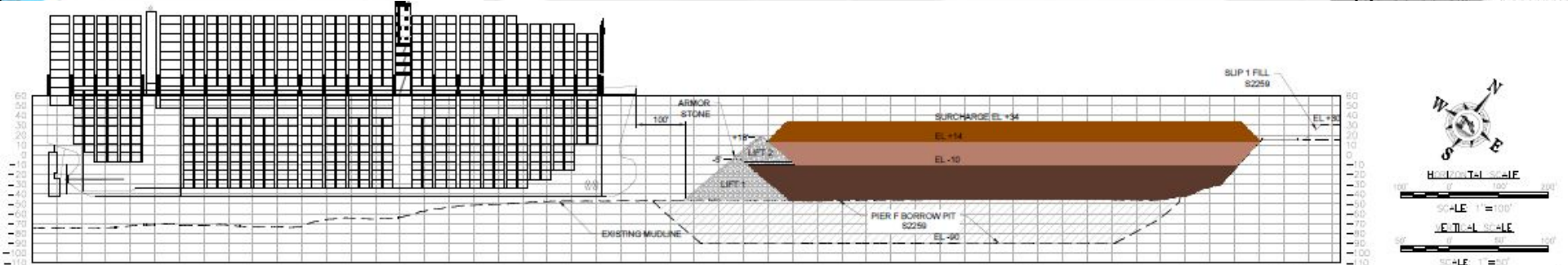
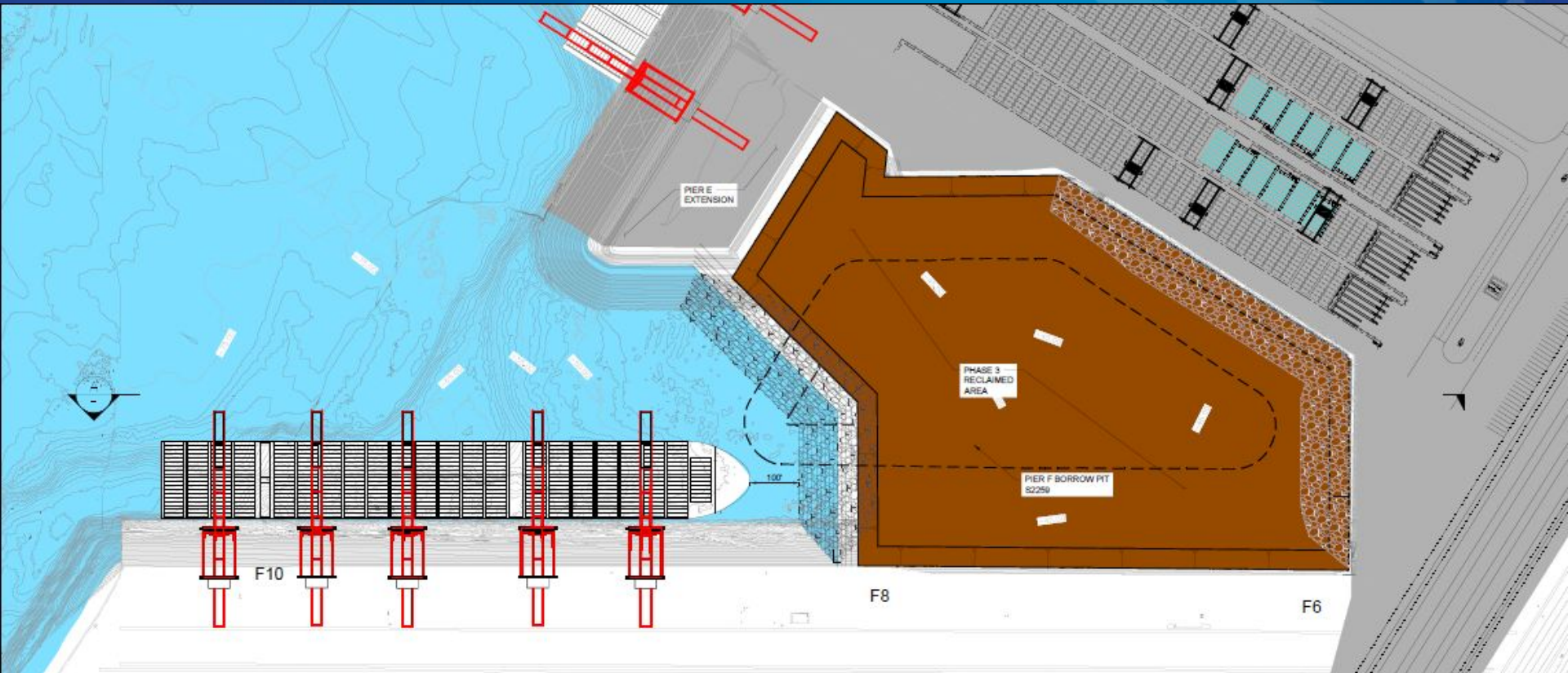
Port of LONG BEACH



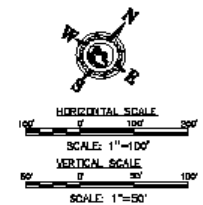
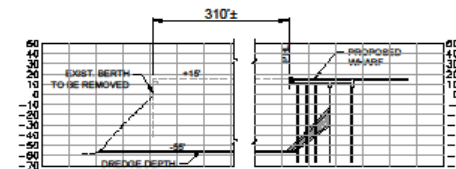
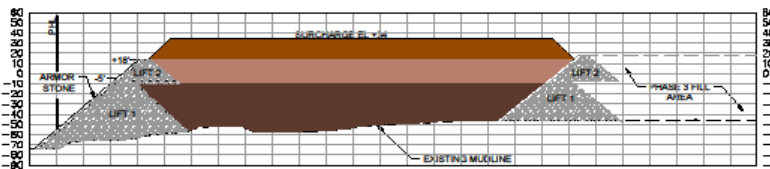
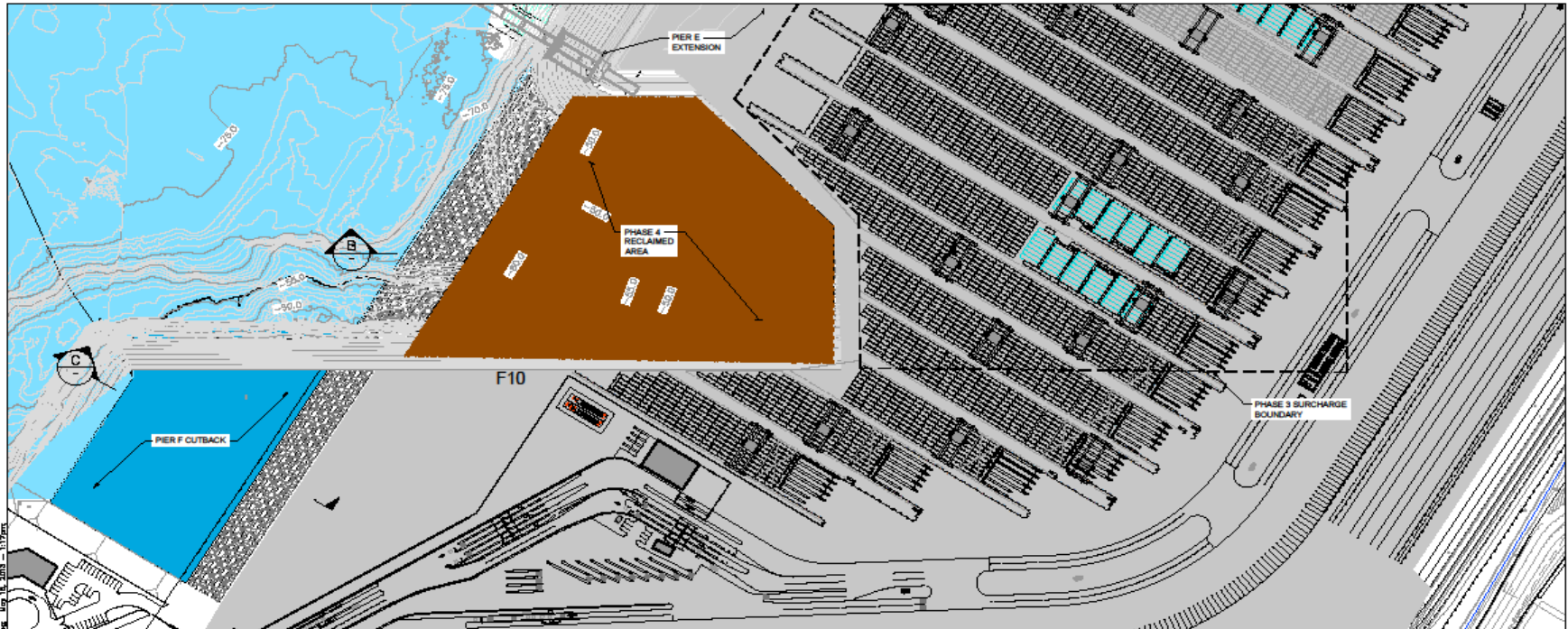




Phase 2: East Basin Fill (Start Mid 2015)



Phase 2: Final East Basin Fill (2016)



PIER E TERMINAL REDEVELOPMENT
 MIDDLE HARBOR
 PHASE 4
 PLAN AND SECTION VIEW
 Sheet: 1 of 1