

Port of San Diego

Sediment Remediation

**Proposed Convention Center Hotel
Former Campbell Shipyard
San Diego, California**

David Merk, Environmental Services

June 18, 2002

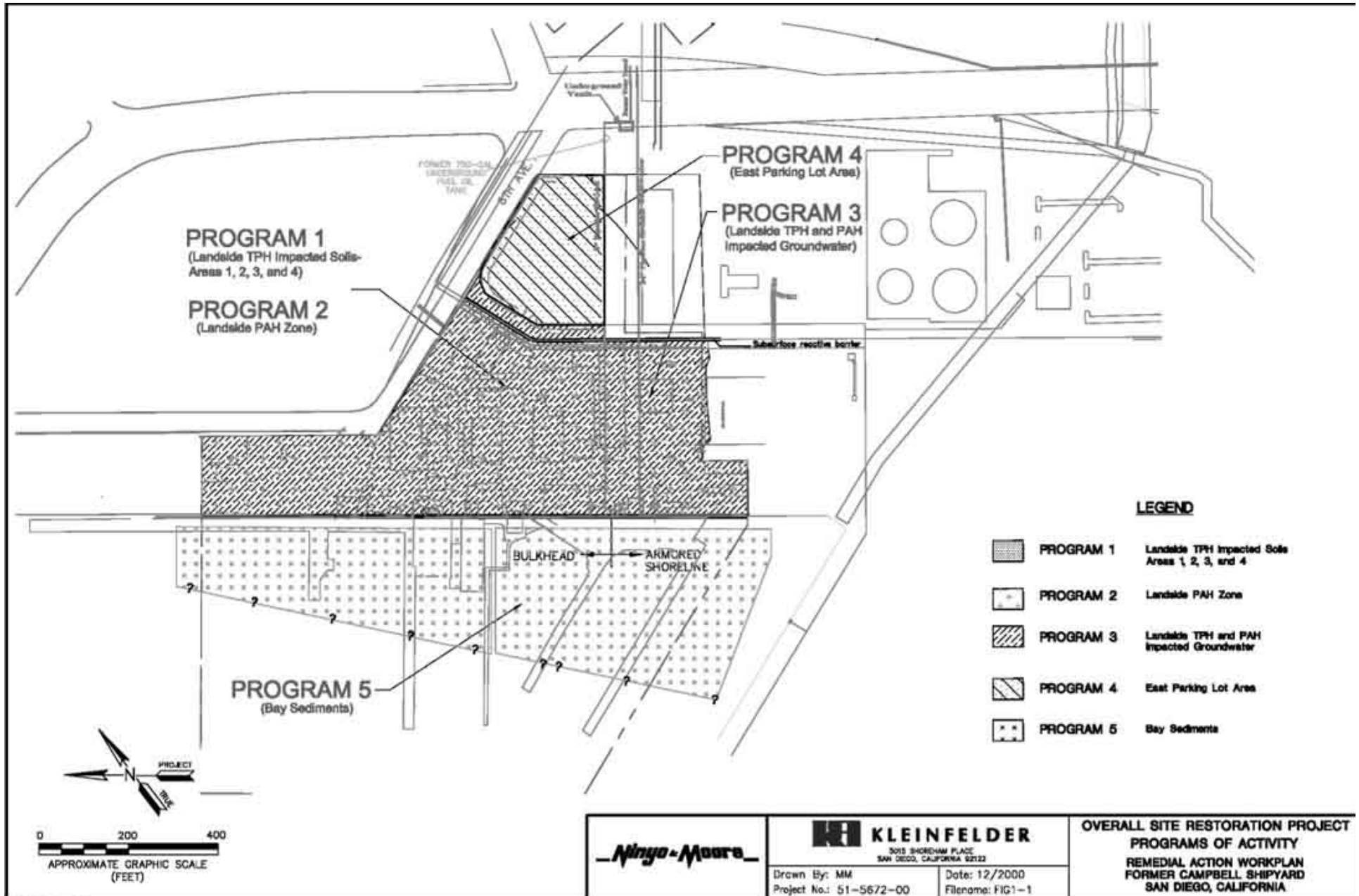


lore

View looking east of SDCG&E, Campbell Machine Company and the San Diego & Arizona railroad yard.

March 1925
Appendix A, Figure 7

Campbell Site Restoration Overview



Site Remediation Sequence

- **1995 Cleanup and Abatement Order 95-21 Issued**
 - Set Separate Soil (Landside) and Bay Sediment Clean-up Levels
 - East Parking Lot Cap
- **2000 Remedial Action Work Plan Approved**
 - Ex-situ stabilization of petroleum contaminated soil
 - No further action for landside polyaromatic hydrocarbons
 - Groundwater impacts confined to soil contamination areas
- **2001 City of San Diego Redevelopment Agency Joint Powers Agreement/Regional Water Quality Control Board Polanco Agreement**
- **2001 Landside Petroleum Remediation Complete**

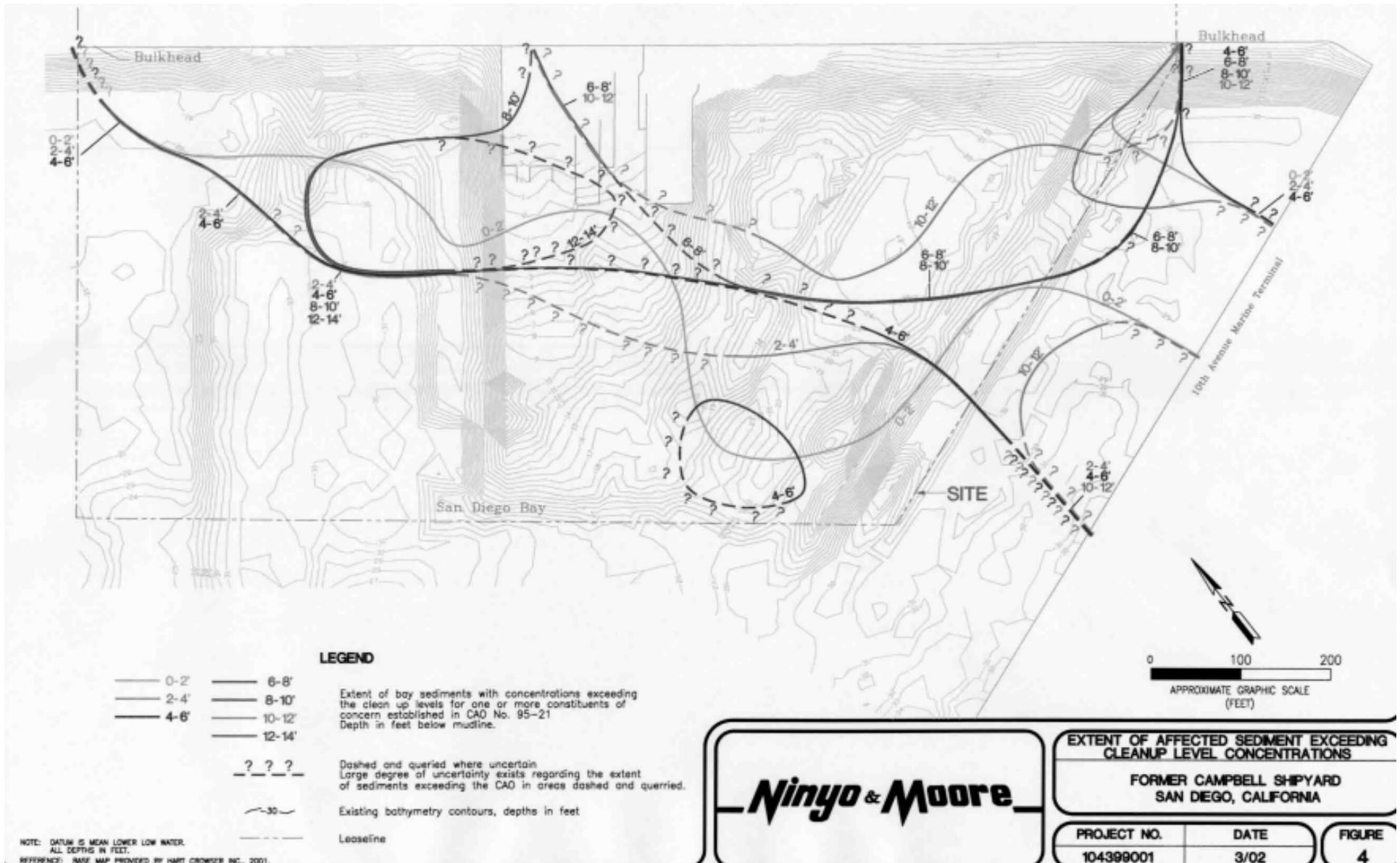
Soil Remediation, Area 2, former Campbell Shipyard.



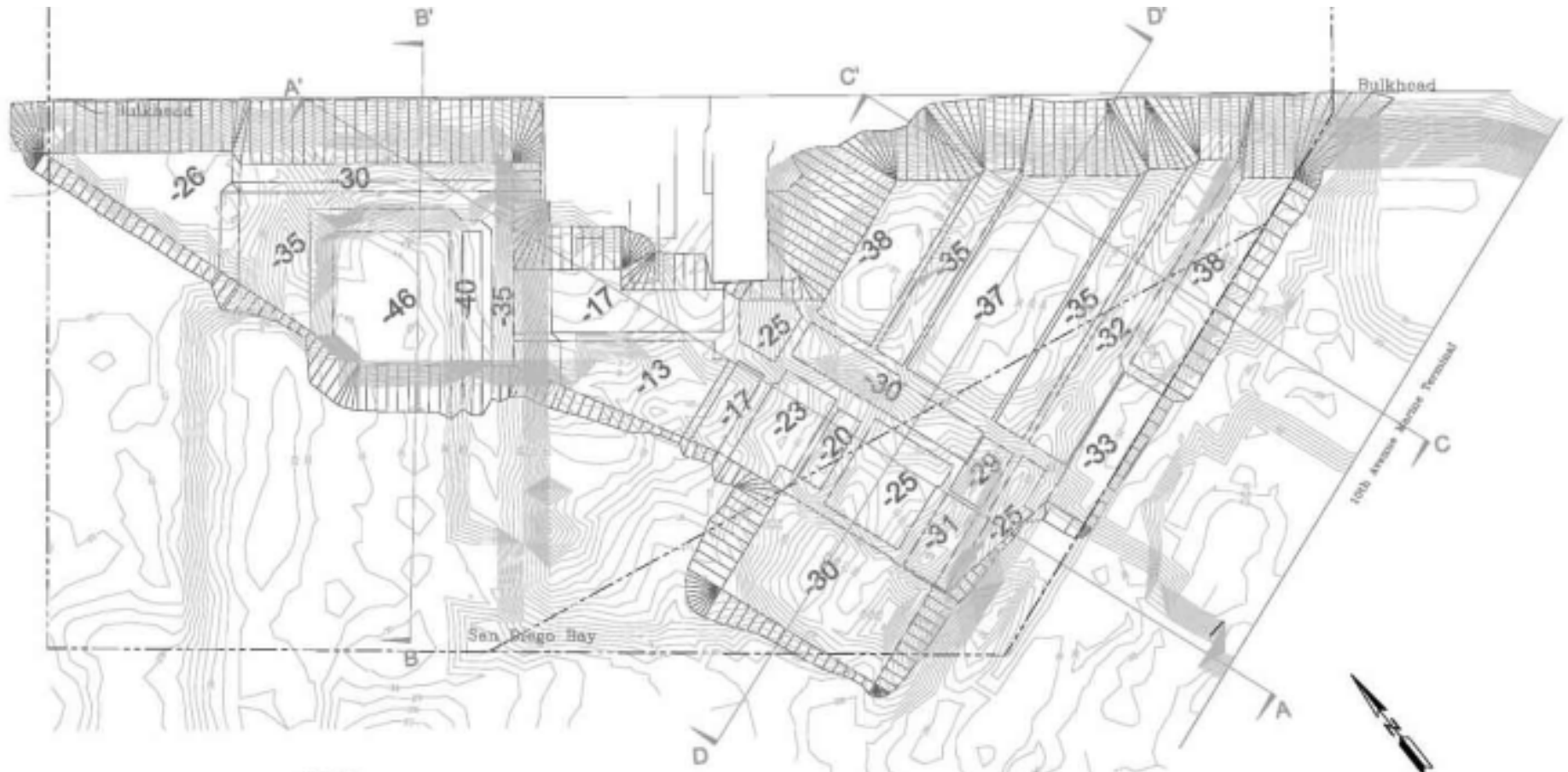
Offshore Drilling








Constituent Contour Map

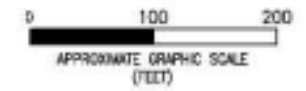


Dredge and Off-site Disposal



LEGEND

-  Proposed area and depth of dredging
-  Side slopes, 3:1
-  Cross section
-  Existing bathymetry contours, depths in feet
-  Lessline



NOTE: DRYUM IS MEAN LOWER LOW WATER
ALL DEPTHS IN FEET
REFERENCE: DREDGE PLAN PROVIDED BY ANCHOR ENVIRONMENTAL, LLC 2007.

Ningo & Moore

SEDIMENT DREDGE PLAN

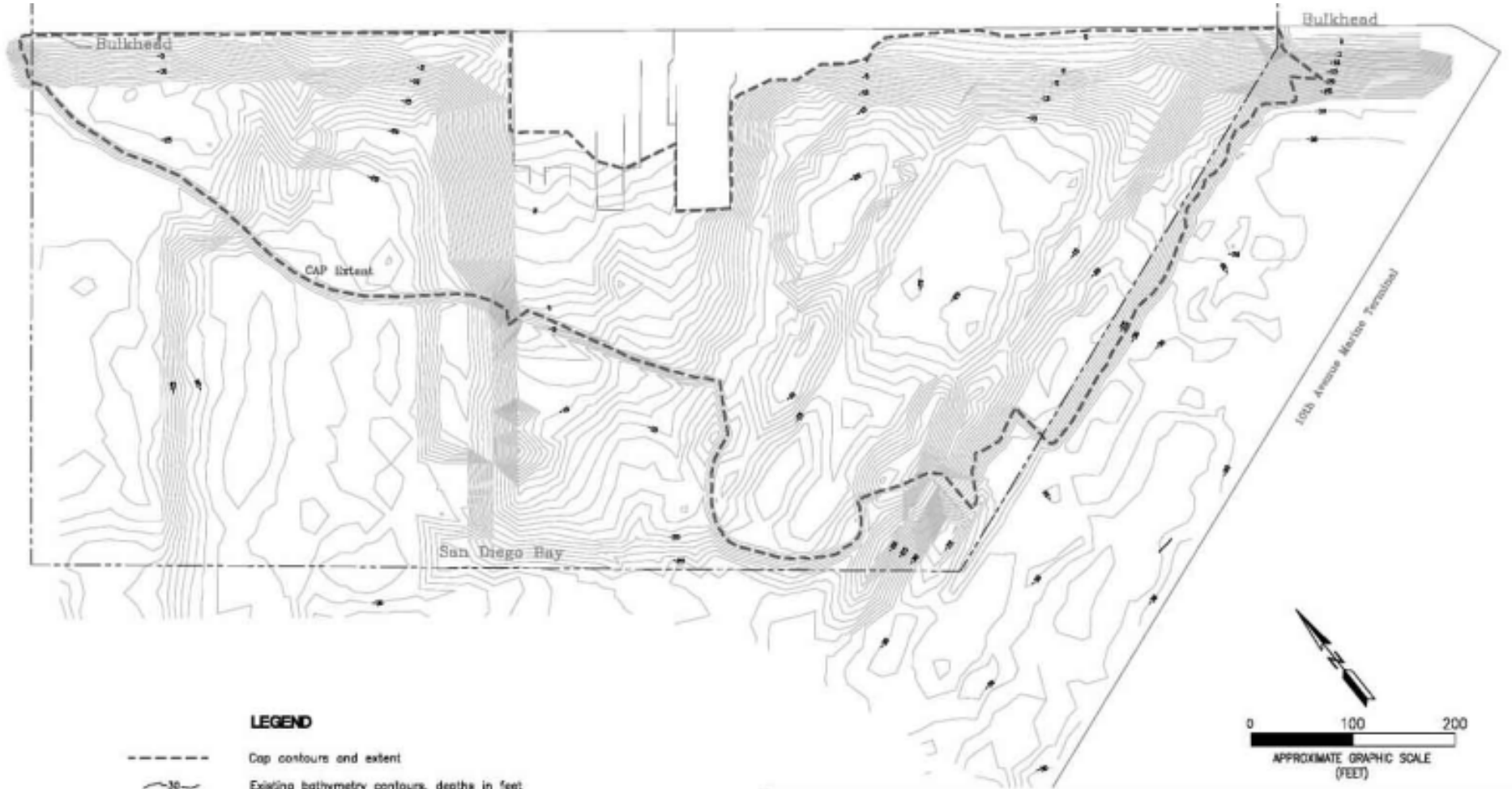
**FORMER CAMPBELL SHIPYARD
SAN DIEGO, CALIFORNIA**

PROJECT NO.
104389001

DATE
6/01

FIGURE
5

Cap in Place Alternative



DATUM IS MEAN LOWER LOW WATER.
ALL DEPTHS IN FEET.
SOURCE: CAP DESIGN PROVIDED BY ANCHOR ENVIRONMENTAL, LLC, 2001.

Ninyo & Moore

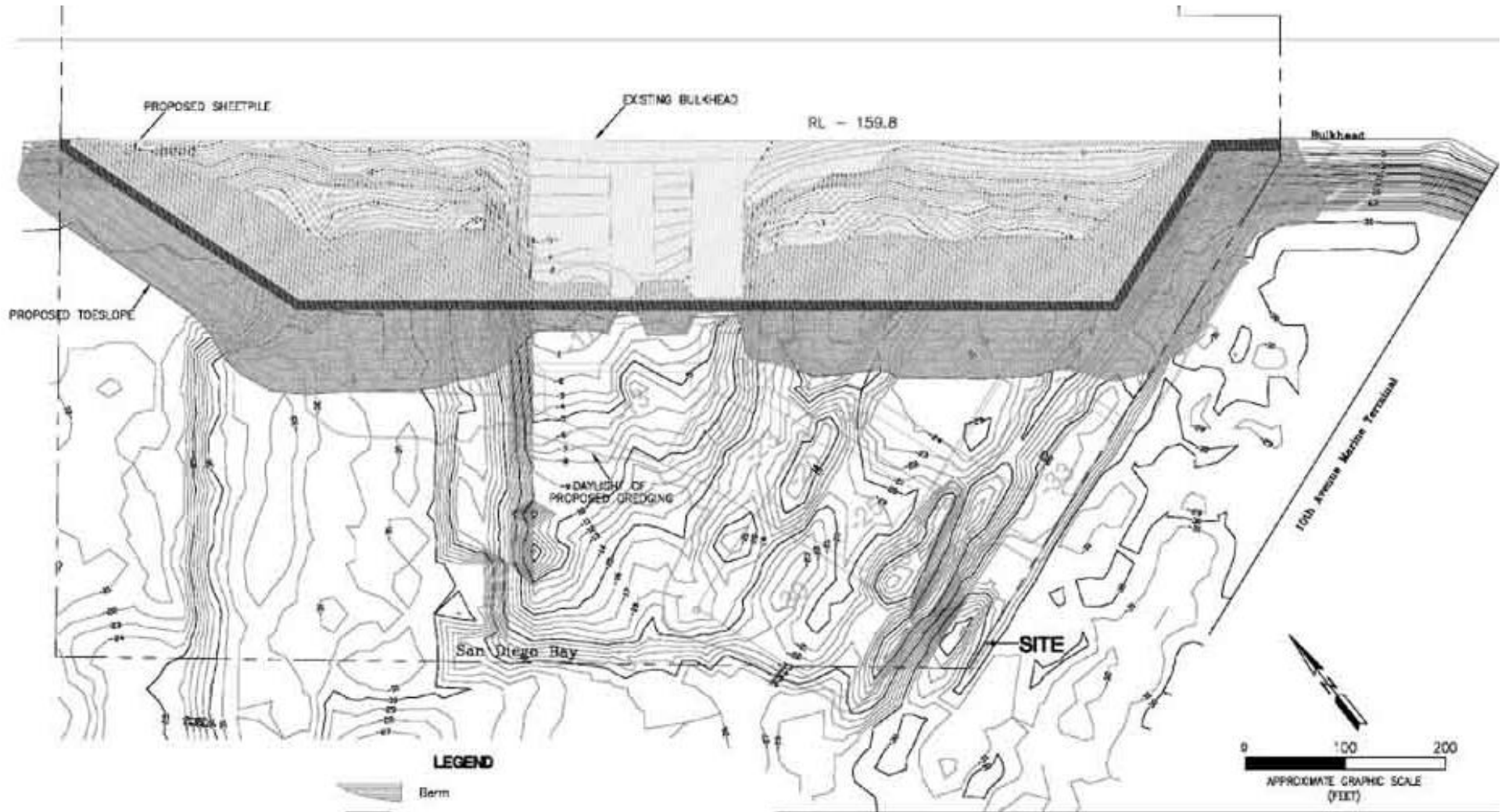
ALTERNATIVE 4
CAP IN PLACE AFFECTED SEDIMENT EXCEEDING
CLEANUP LEVEL CONCENTRATIONS
FORMER CAMPBELL SHIPYARD
SAN DIEGO, CALIFORNIA

PROJECT NO.
104300001







DATE
8/01

FIGURE
19

Berm CDF Plan



LEGEND

-  Berm
-  Crest of berm
-  Dredge fill/pile
-  Proposed areas and depths of dredging. Dredging will not occur within the CDF.
-  Existing bathymetry contours, depths in feet
-  Leaseline

DCM IS MEAN LOWER LOW WATER.
ALL DEPTHS IN FEET.
MCM: WMM DESIGN PROVIDED BY URS CORPORATION, 2001.

Ninyo & Moore

ALTERNATIVE 2B
DREDGE SEDIMENT AND LINEAR BERM CDF

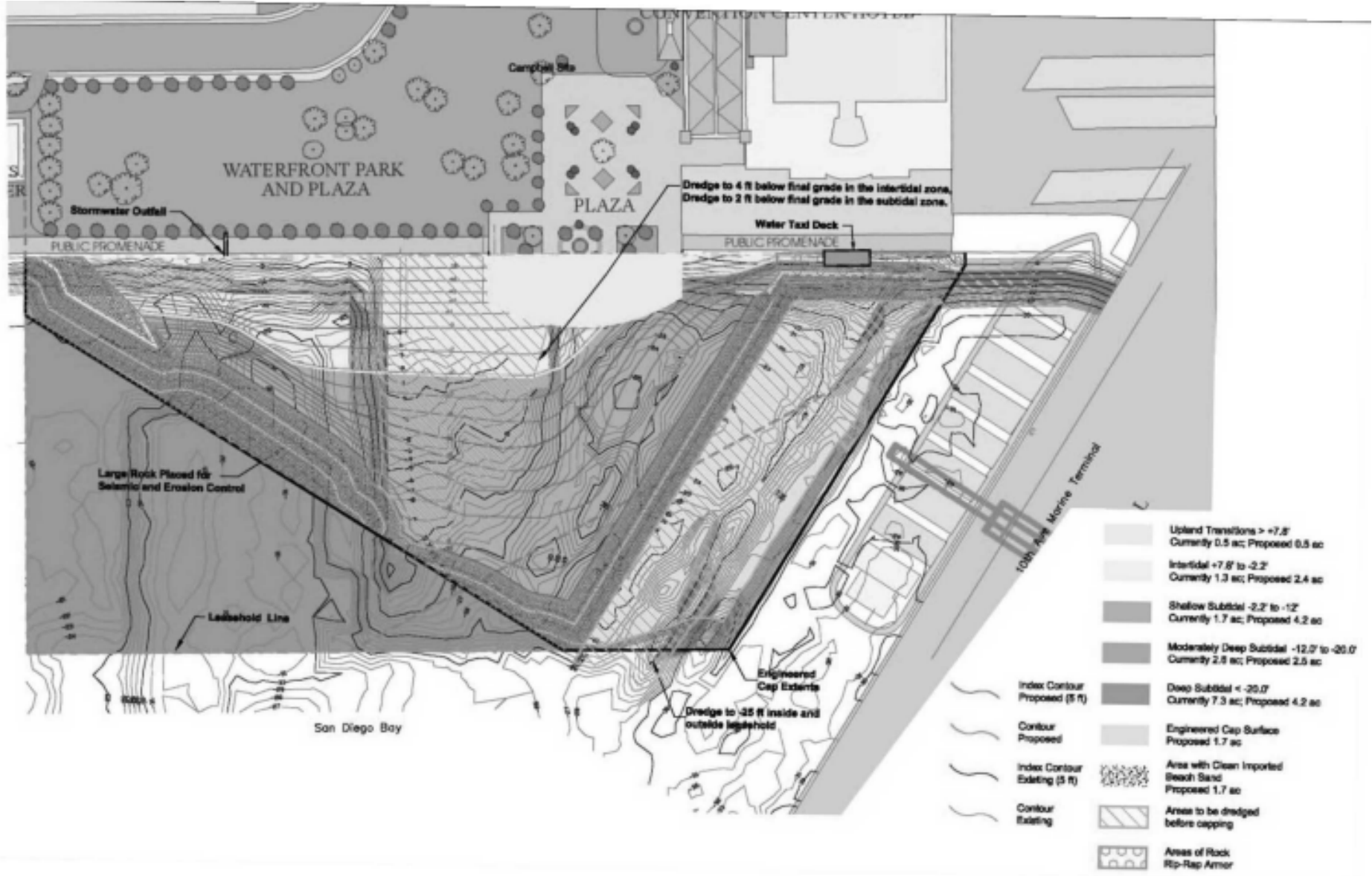
FORMER CAMPBELL SHIPYARD
SAN DIEGO, CALIFORNIA

PROJECT NO.
104399001

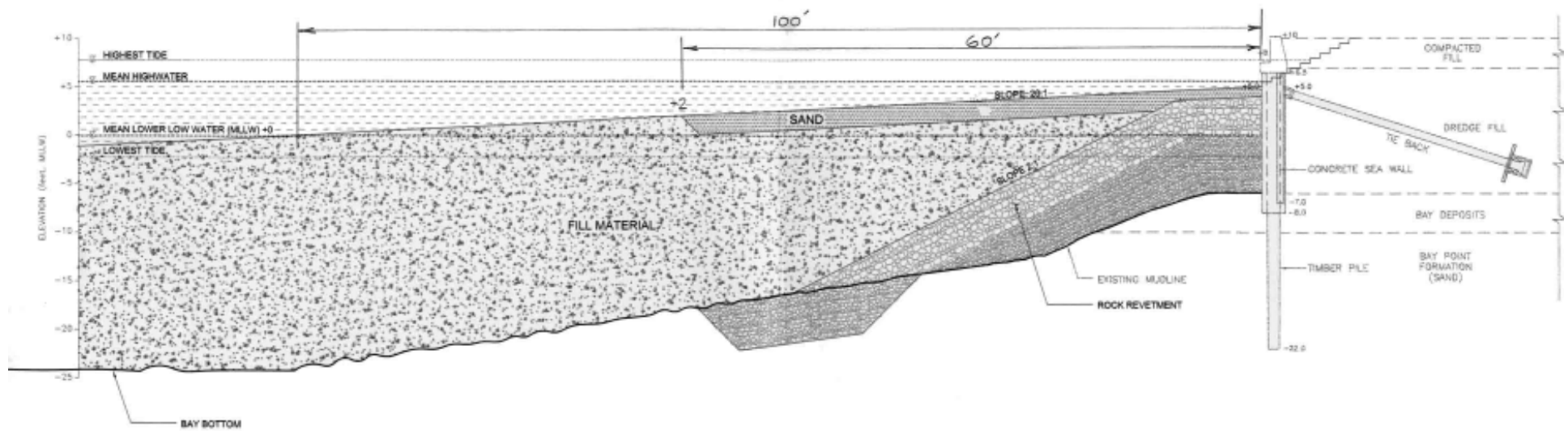
DATE
8/01

FIGURE
10

Modified Habitat Cap Alternative



Modified Habitat Cap Cross-Section



CAMPBELL SITE
SECTION AT THE SEAWALL
SCALE: 1"=10'

Technical Advisory Committee

Review of Sediment Remediation

Alternative Analysis

- Dr. Michael Palermo, Director of the Center for Contaminated Sediments, Waterways Experimental Station (WES) of the US Army Corps of Engineers.
- Dr. Richard Kocan, University of Washington School of Aquatic and Fisheries Sciences, University of Washington.
- Ms. Justine Barton, US Environmental Protection Agency Region 10.
- David Paradies, Bay Foundation of Morrow Bay.