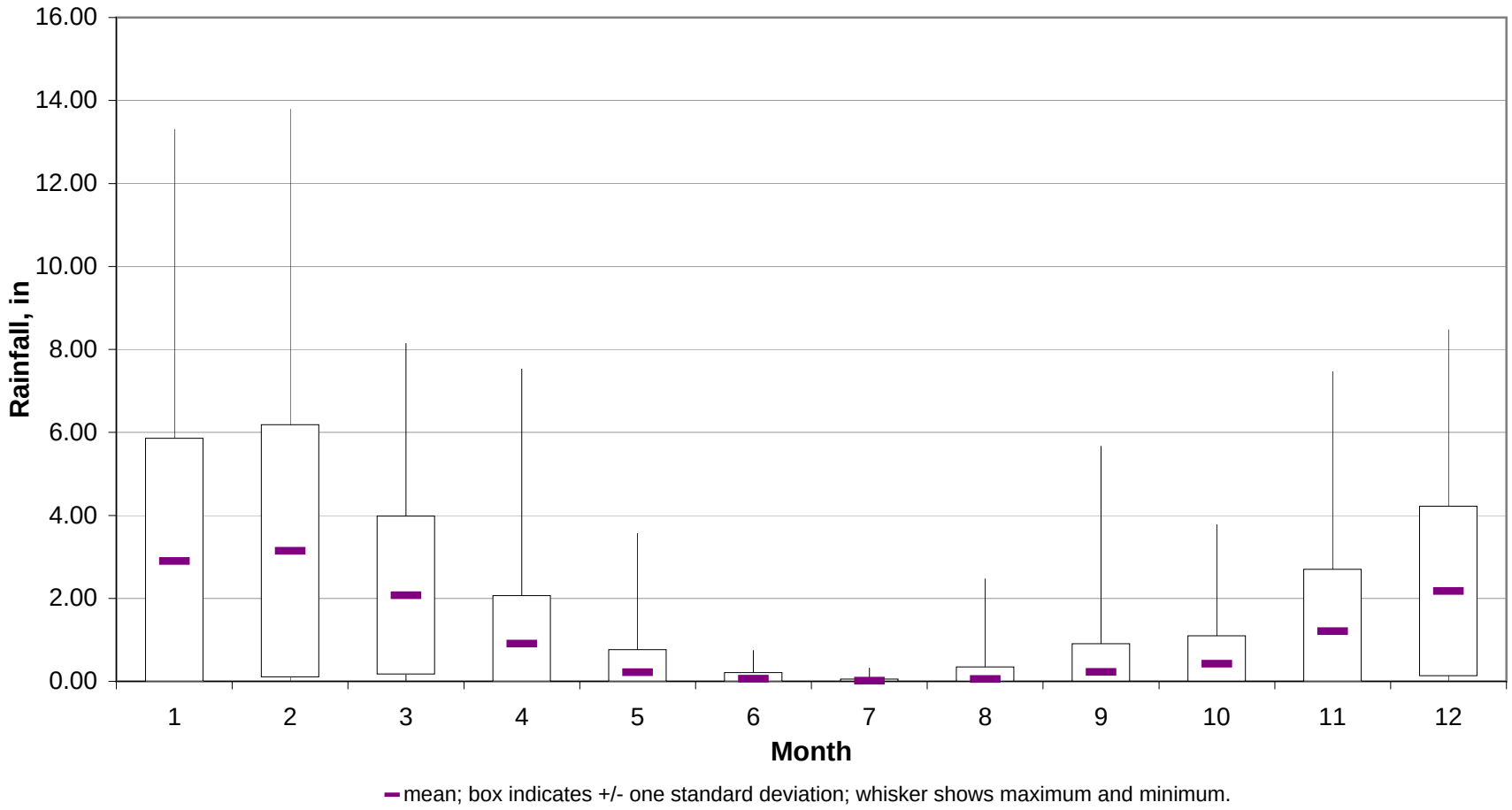
4.8 SECTION 4 FIGURES



Notes: Average Annual Rainfall = 13.5 inches

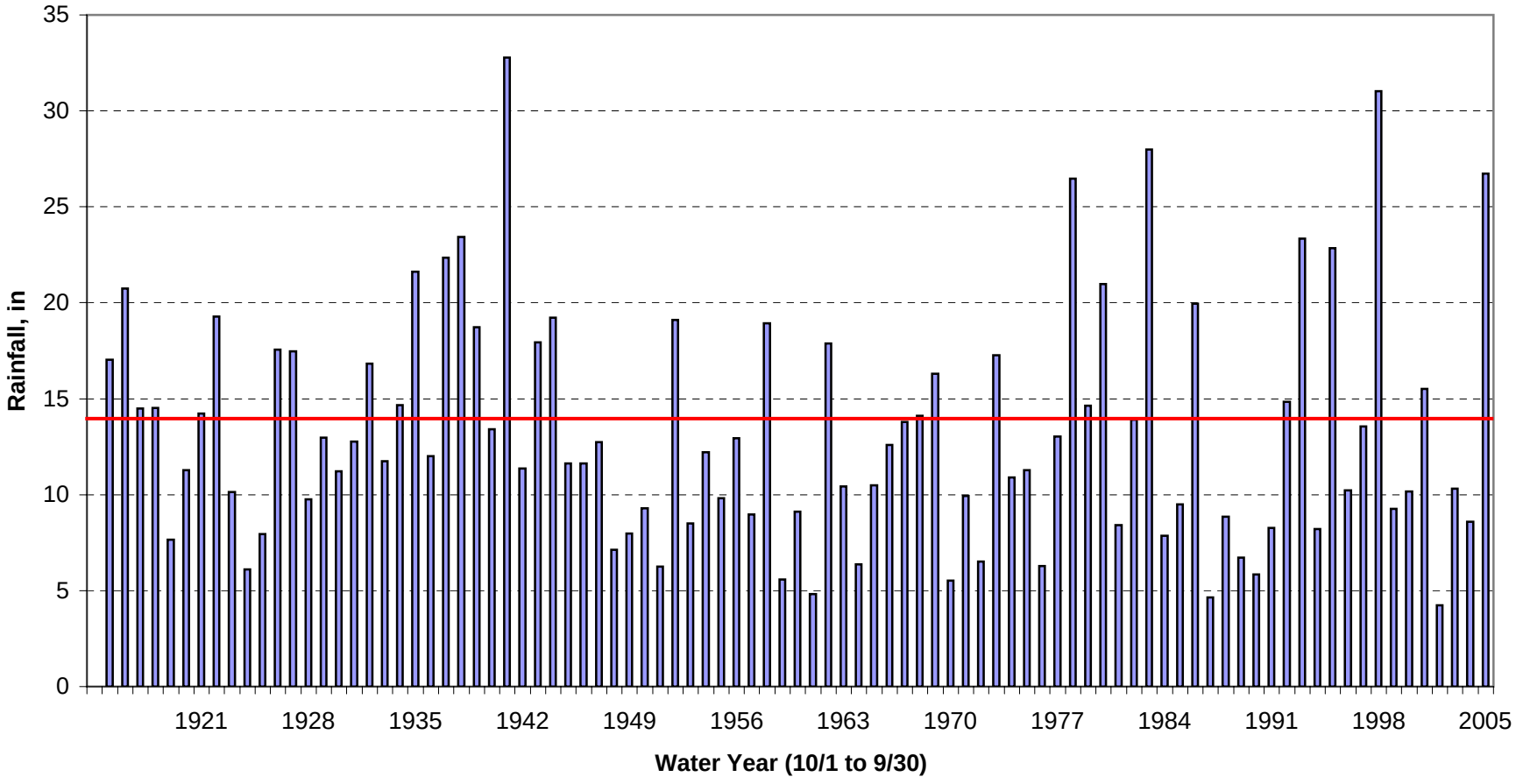
figure 4-1

Ballona Wetlands Restoration

Average Monthly Precipitation

PWA

Fig 4-6 to 4-7 Precip.xls monthly precip 1/9/2006



Average Annual Precipitation = 13.5 inches

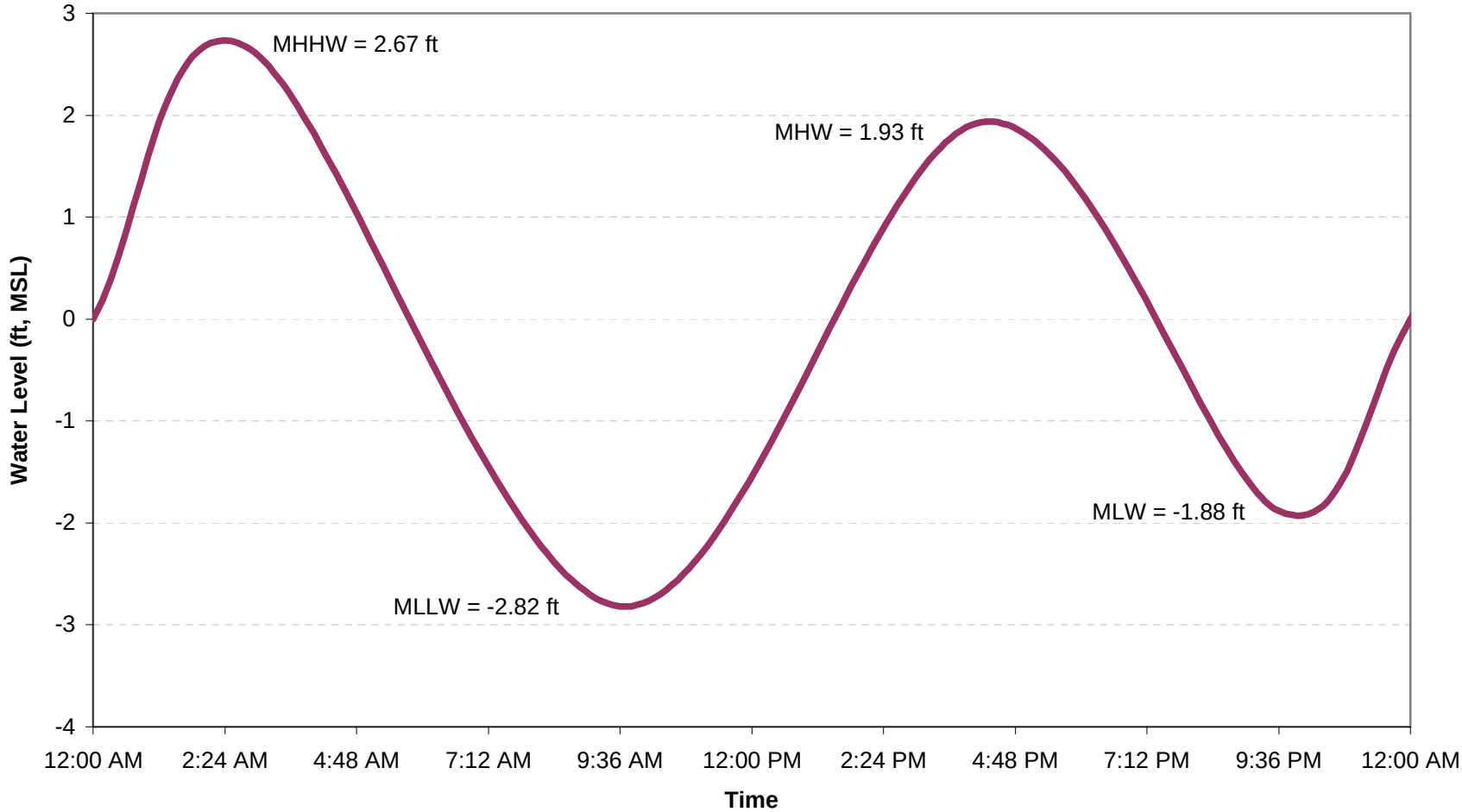
Notes: Water Year 2005 starts on October 1, 2004 and extends through September 2005. Data for 2005 have yet to be published.

figure 4-2

Ballona Wetlands Restoration

Long-Term Precipitation Patterns

PWA



Notes: average tides of Los Angeles, Outer Terminal tide gauge
Source: NOAA NOS Station #9410660

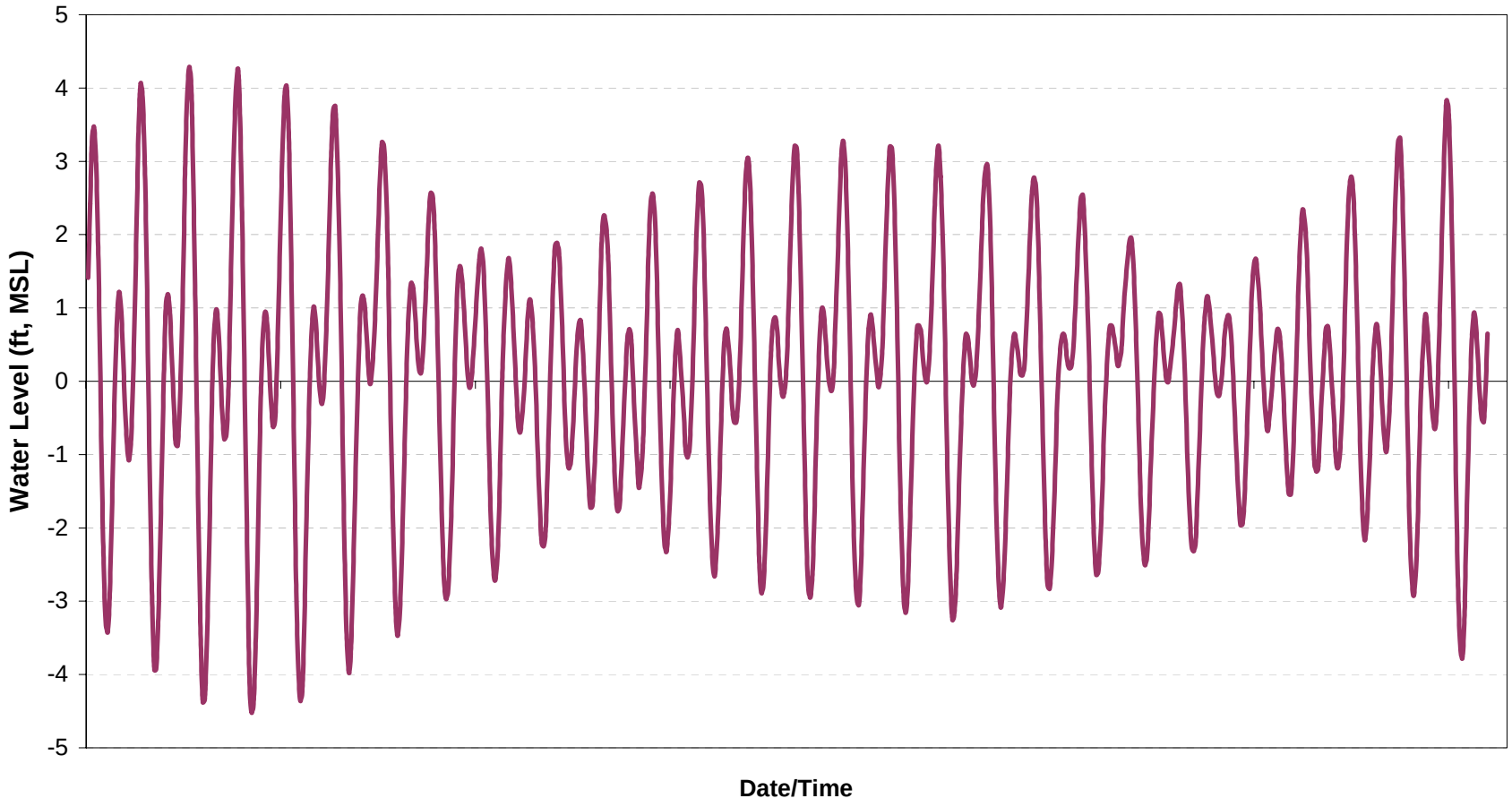
figure 4-3

Restoration of Ballona Wetlands

Average Daily Tidal Cycle

PWA

C:\j.stephenson\JuliesDocuments\Project Files\Ballona Wetlands\Tidal Data\LA Tidal Data\LA_TidalData.xls



Notes: data from Los Angeles, Outer Harbor tide gauge, June 2004
Source: NOAA NOS

figure 4-4

Restoration of Ballona Wetlands

Average Spring/Neap Tidal Cycle

PWA

LA_TidalData.xls AvgMonthlyCycle 1/9/2006

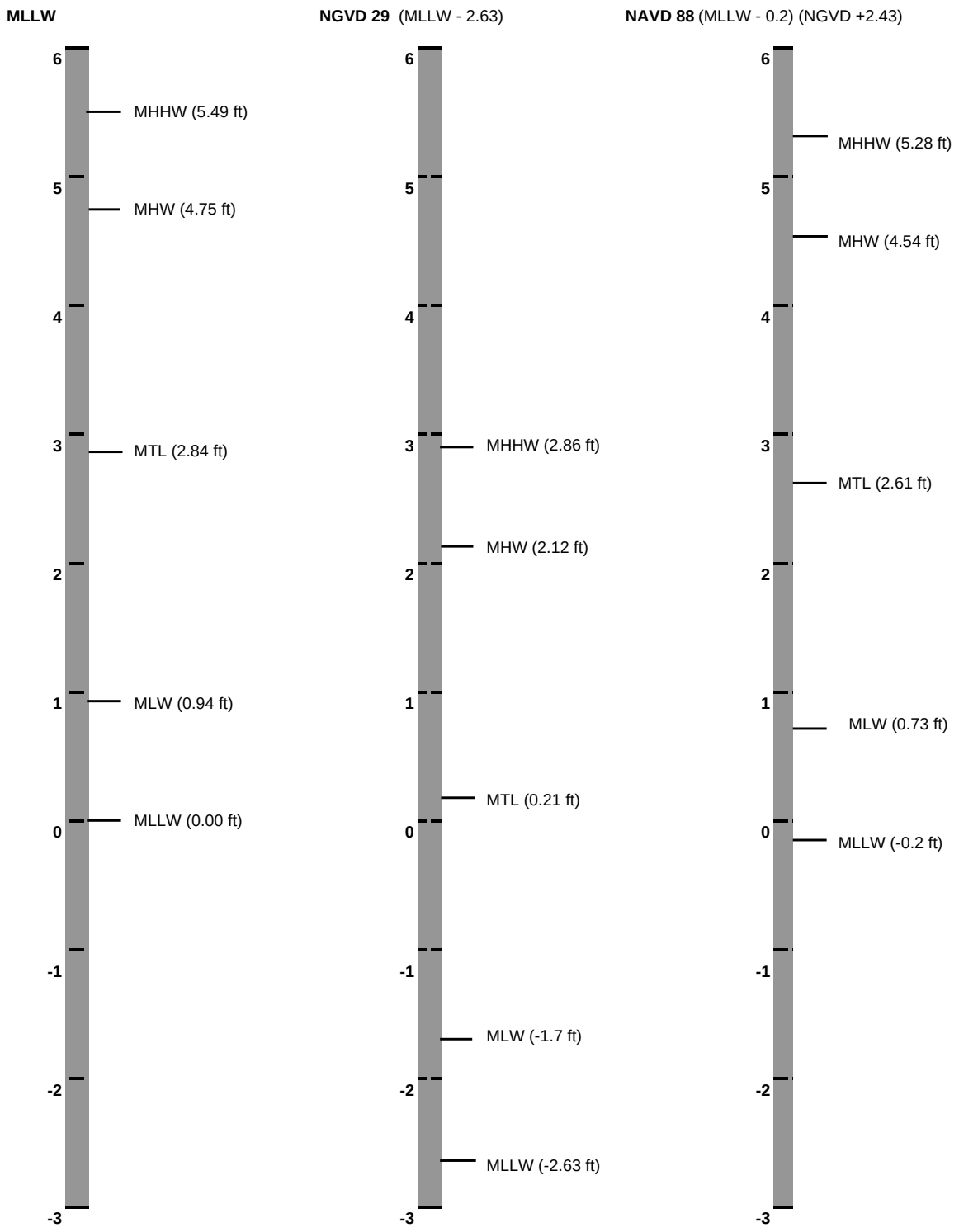
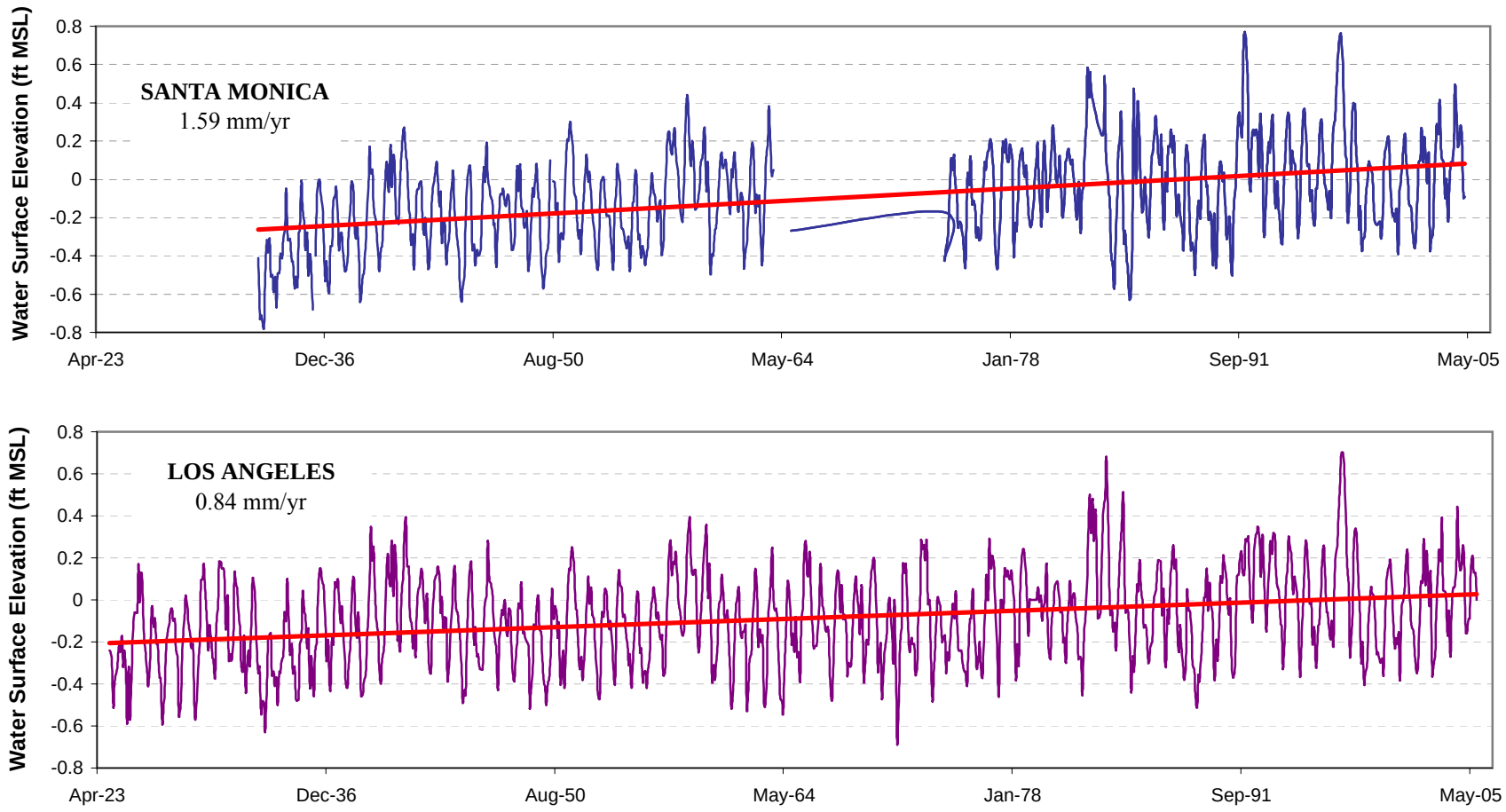


figure **4-5**

Ballona Wetlands Restoration

Reference Datums

PWA



Source: NOAA NOS COOPS

figure 4.6

Ballona Wetlands Restoration

Rise of Monthly Mean Sea Levels at Santa Monica and Los Angeles

PWA

Figure4.11_SLR.xls combined 1/12/2006

0 225 450 900 1,350 1,800 2,250 Feet

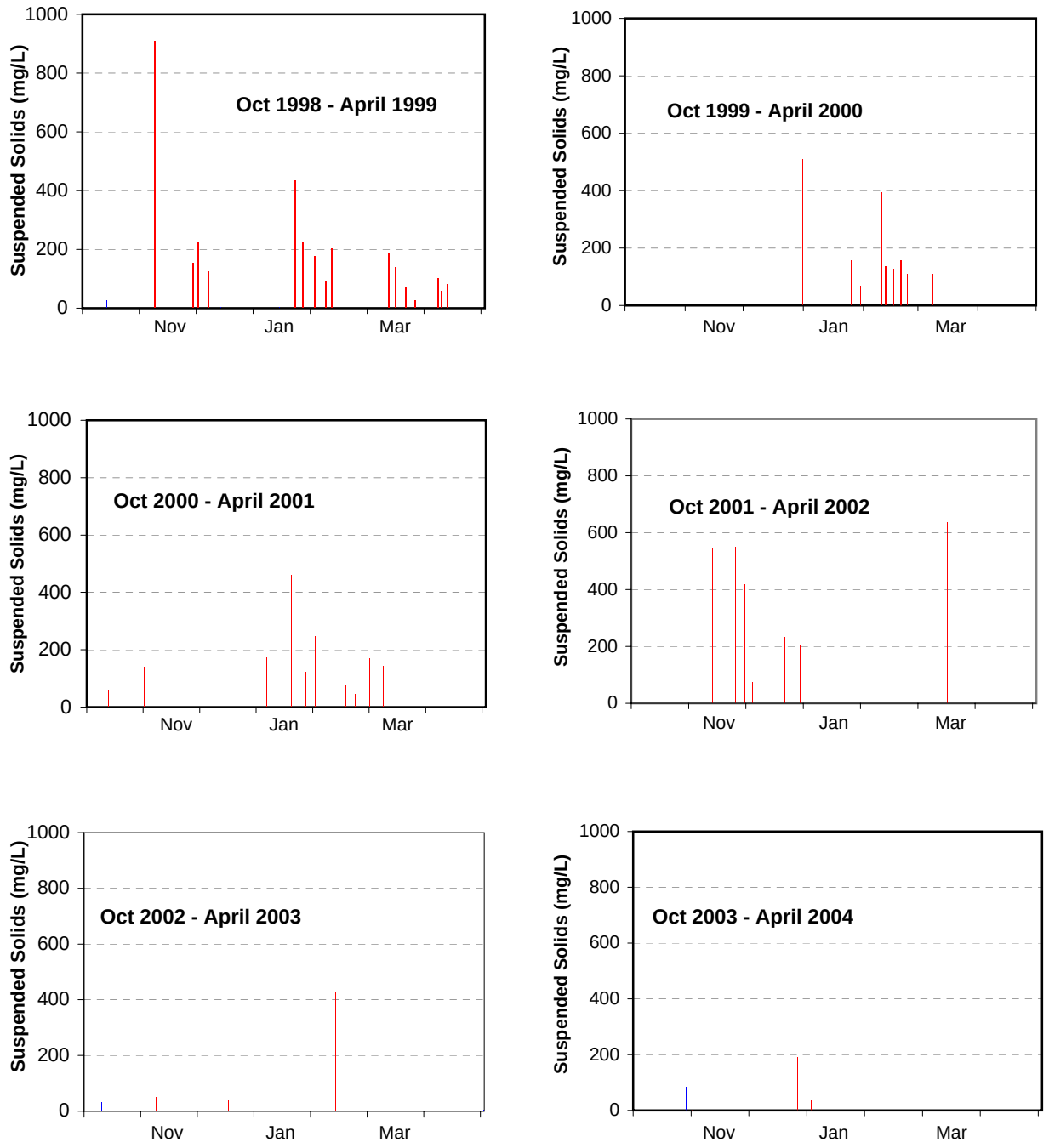
figure 4-7

Ballona Wetlands Restoration

Potential Inflows to Area B

Proj. # 1793

PWA



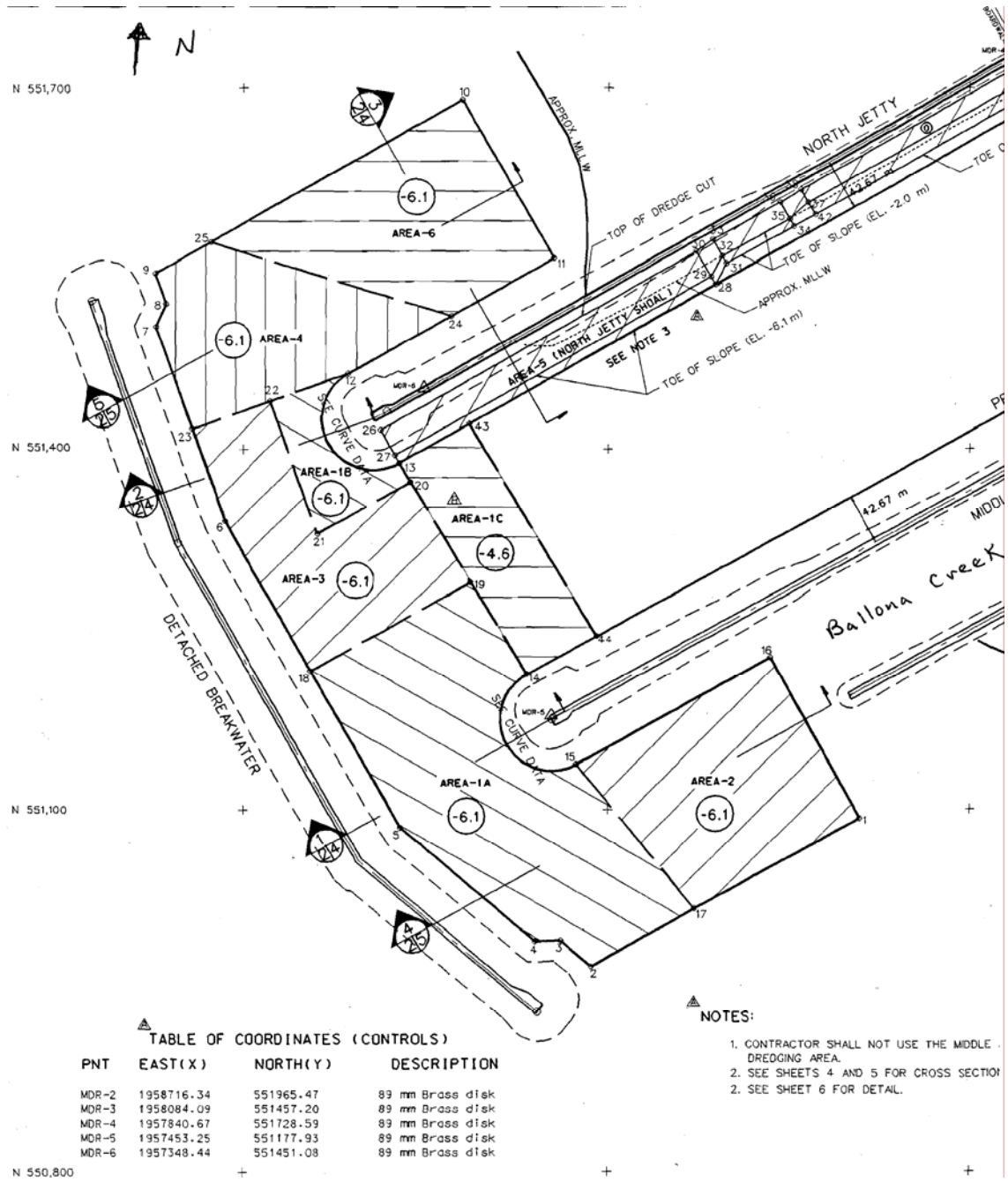
Source: LACDPW 1998 - 2004 Monitoring Reports

figure 4-8

Ballona Wetlands Restoration

Suspended Sediment Concentrations at Ballona Creek

PWA



Source: USACOE

figure 4-9

Ballona Wetlands Restoration

Dredging Locations in Marina del Rey

PWA Ref# 1793

PWA

Notes: View from south, image from GoogleEarth 2005

figure 4-10

Ballona Wetlands Restoration

Oblique Photograph of Area A

PWA Ref# 1793

PWA

P:\Projects\1793_Ballona_Wetlands\Existing Conditions Report\Figures\Original Files\obliqueAreaA_GE.doc

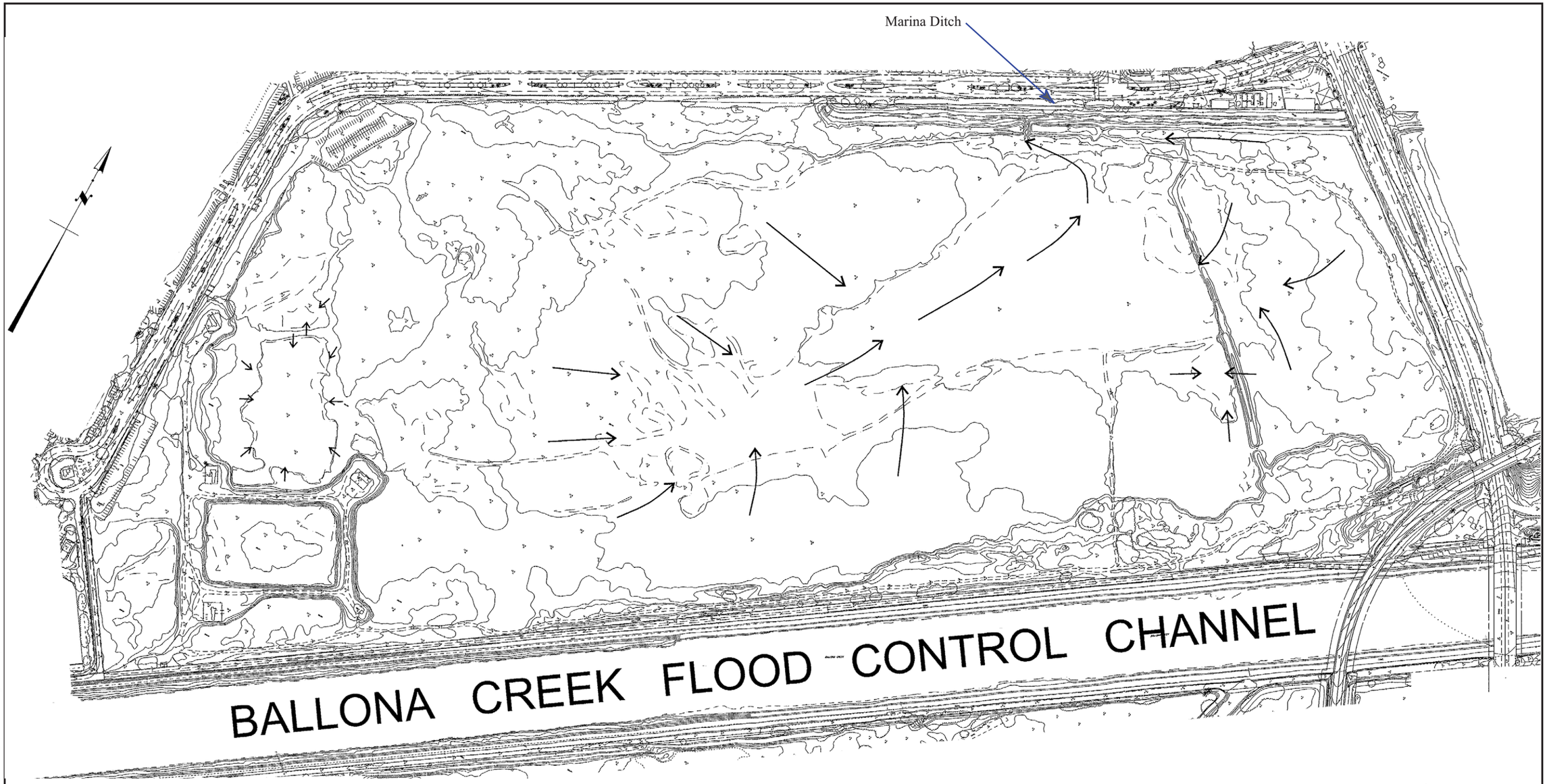


figure ***4-11***

Ballona Wetlands Restoration

Topography of Area A

PWA#1793

PWA

Source / Notes: Topography after Straw (1987)

P:\Projects\1793BallonaWetlands\ExistingCond\Figs\perComments_031306\topoAreaA.ai

Notes: View from south, image from GoogleEarth, 2005

figure 4-12

Ballona Wetlands Restoration

Oblique Photograph of Area B

PWA Ref# 1793

PWA

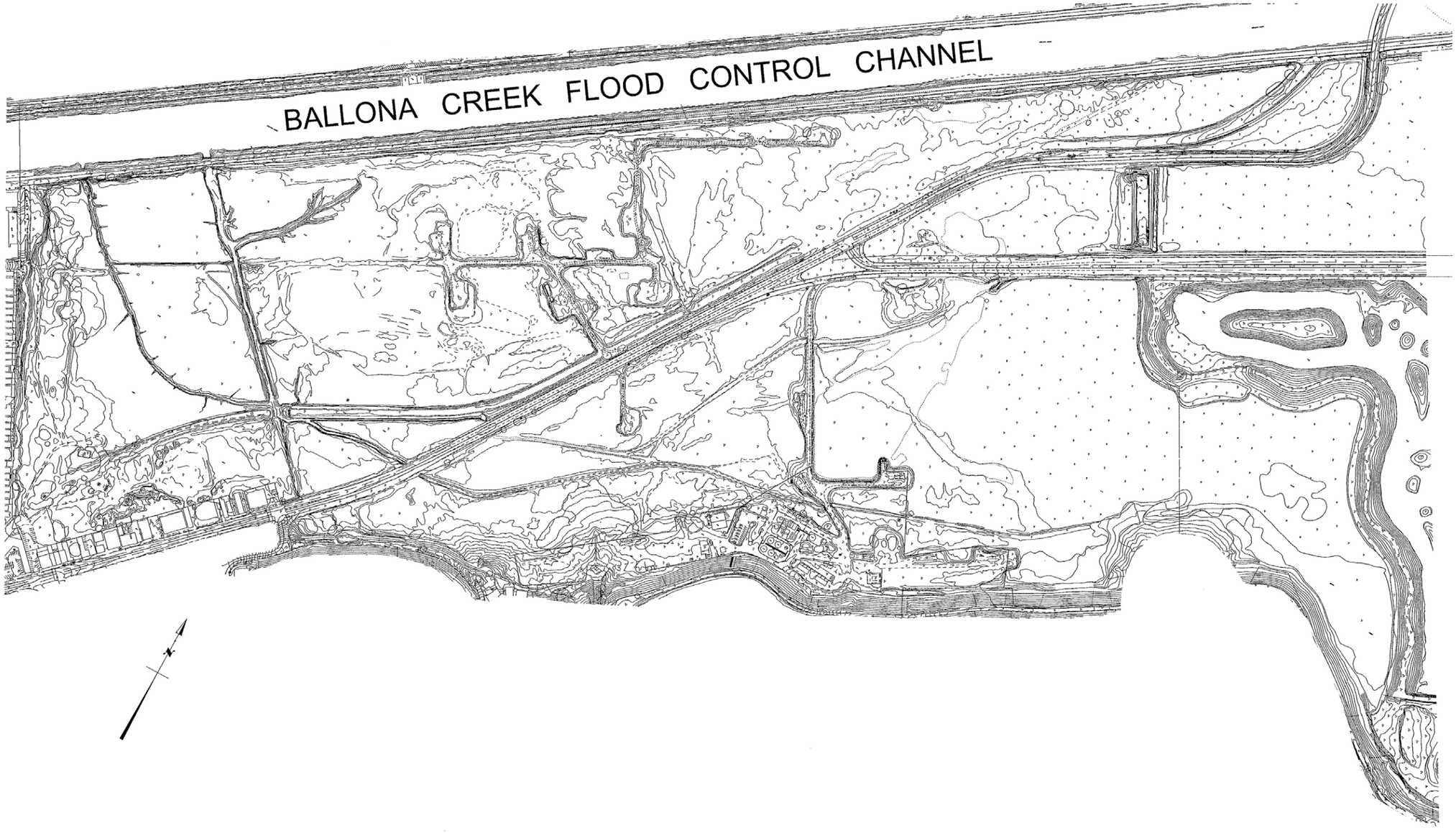


figure ***4-13***

Ballona Wetlands Restoration

Topography of Area B

Source / Notes: Topography after Straw (1987)

PWA#1793

PWA

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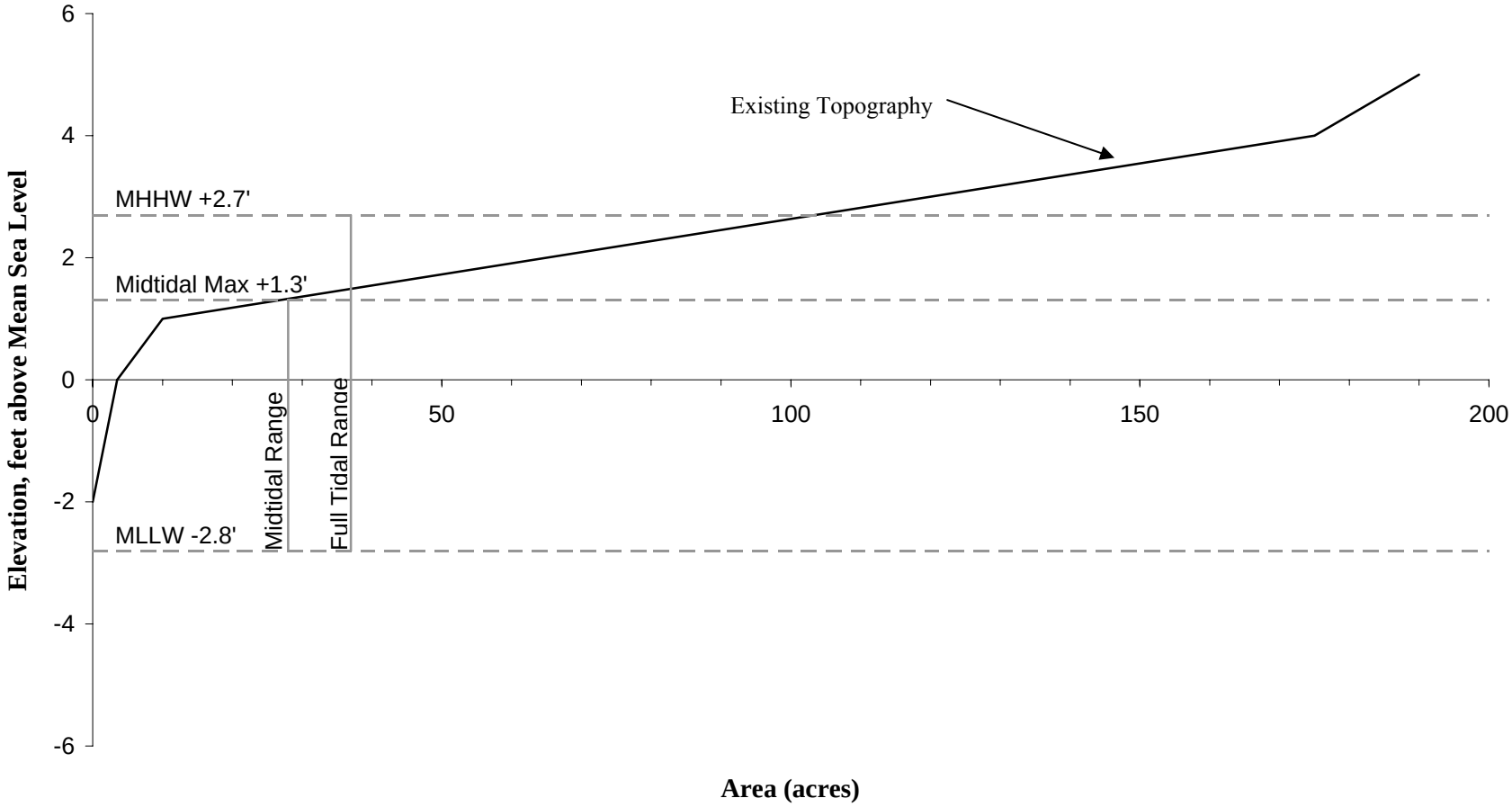


Source: WorldPort Report

figure 4-14

Ballona Wetlands Restoration

Hypsometry of Area B

PWA

ChannelXSections.xls Excel Graph Box 11/21/2005

Source: Culvert location from Psomas (1996)
Photo from USGS (2004)

0 400 800 1,600 2,400 3,200 4,000 Feet

figure 4-15

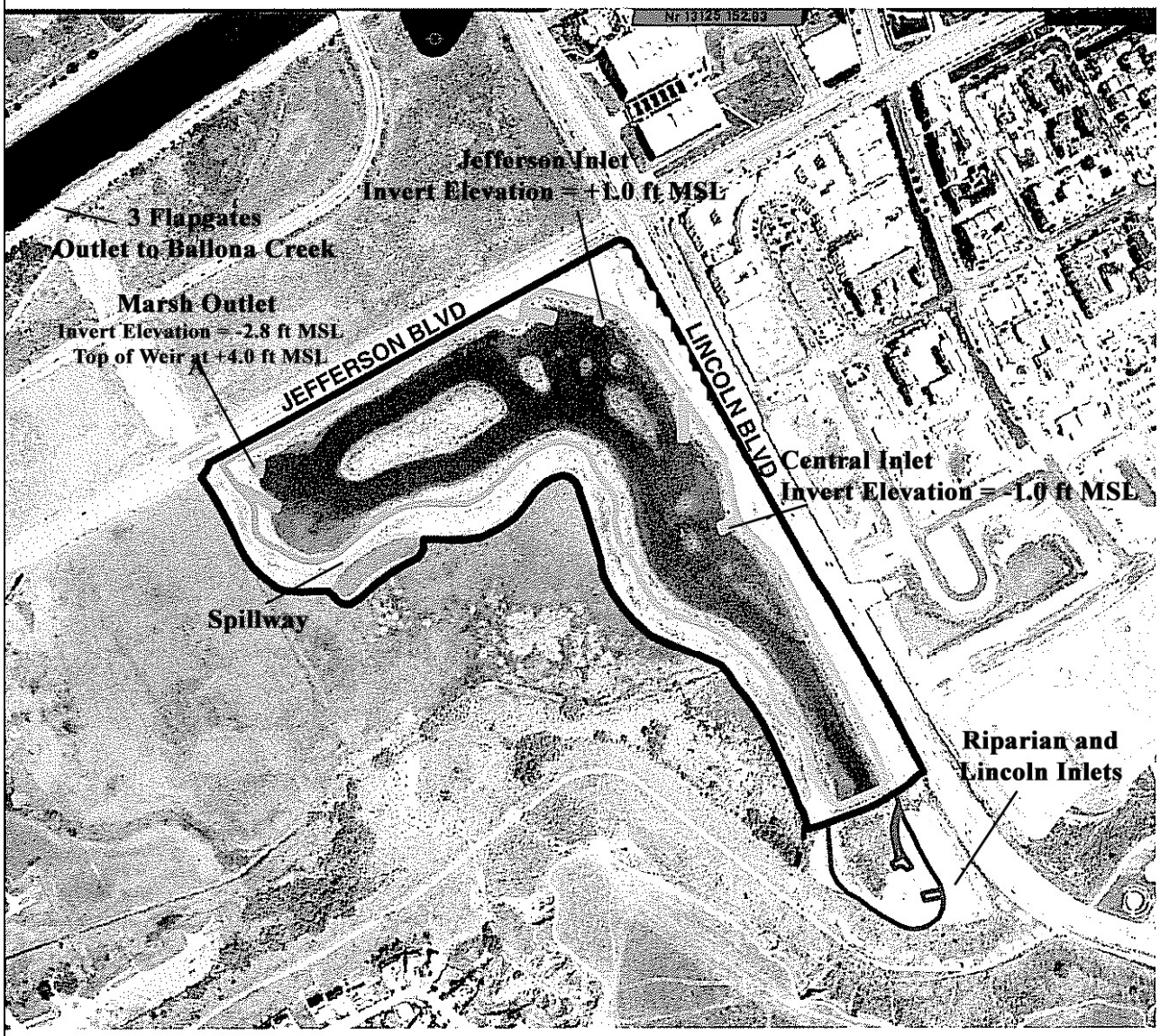
Ballona Wetlands Restoration

Culvert Locations

Proj. # 1793

PWA

\\Orca\PWA\Projects\1793_Ballona_Wetlands\Existing Conditions Report\4th Revision\Figures\Figure4-20-BallonaCulverts.mxd



N

0 250 500 1,000 Feet

Current Management Area = 37.2 Acres

Current Marsh = 23.8 Acres

Future Marsh Extension = 2.3 Acres

Source: Ballona Freshwater Marsh at Playa Vista: Annual Report of Monitoring, Operation and Maintenance, 2003

figure 4-16

Ballona Wetlands Restoration

Freshwater Marsh

PWA Ref# 1793

PWA

Notes: View from south, GoogleEarth, 2005

figure 4-17

Ballona Wetlands Restoration

Oblique Photograph of Area C

PWA Ref# 1793

PWA

P:\Projects\1793_Ballona_Wetlands\Existing Conditions Report\Figures\Original Files\obliqueAreaC.doc

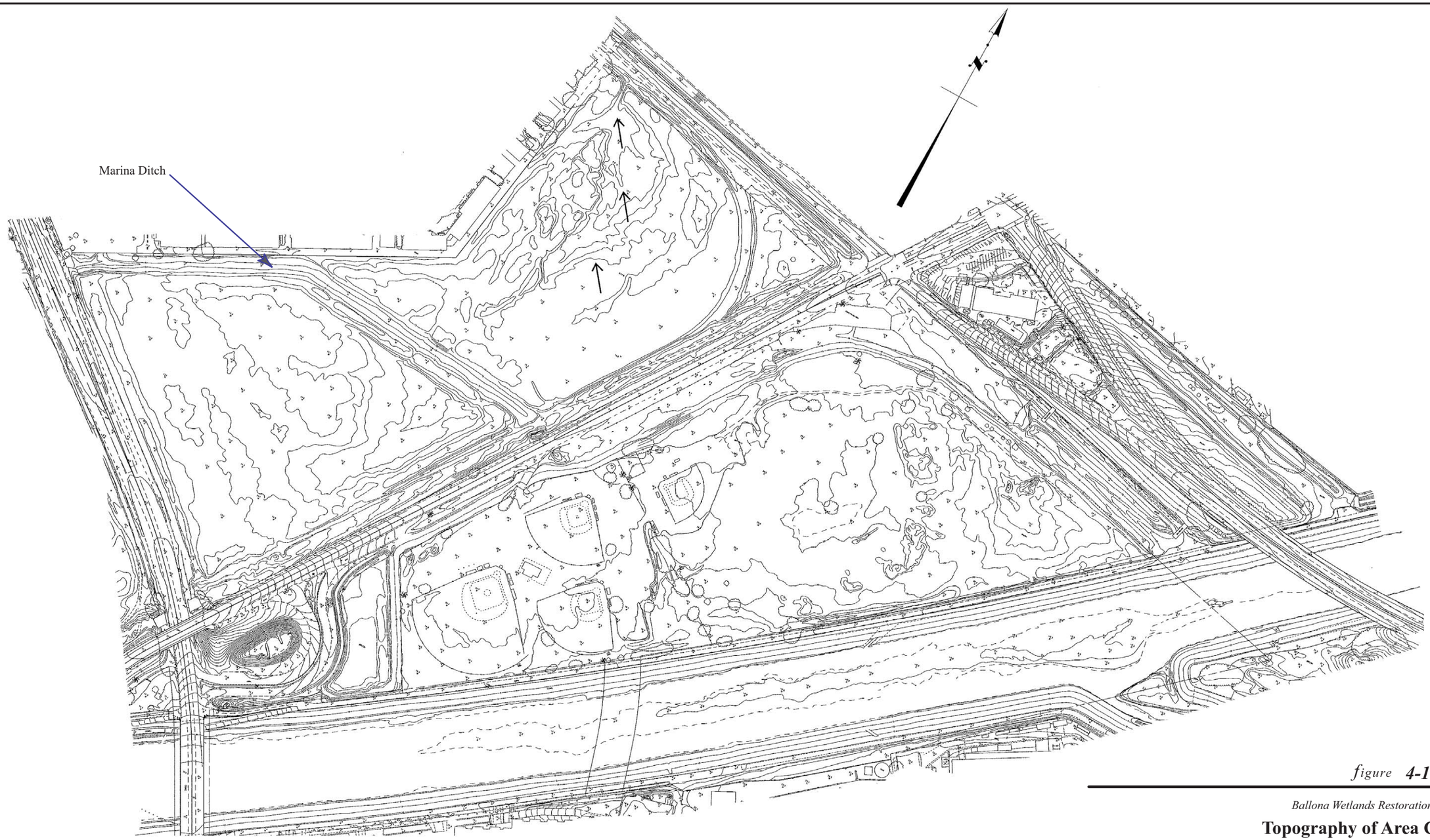


figure **4-18**

Ballona Wetlands Restoration

Topography of Area C

PWA#1793

PWA

Source / Notes: Topography after Straw (1987)

P:\Projects\1793BallonaWetlands\ExistingConditions\Figs\PerComments_031306\topoArea C .ai