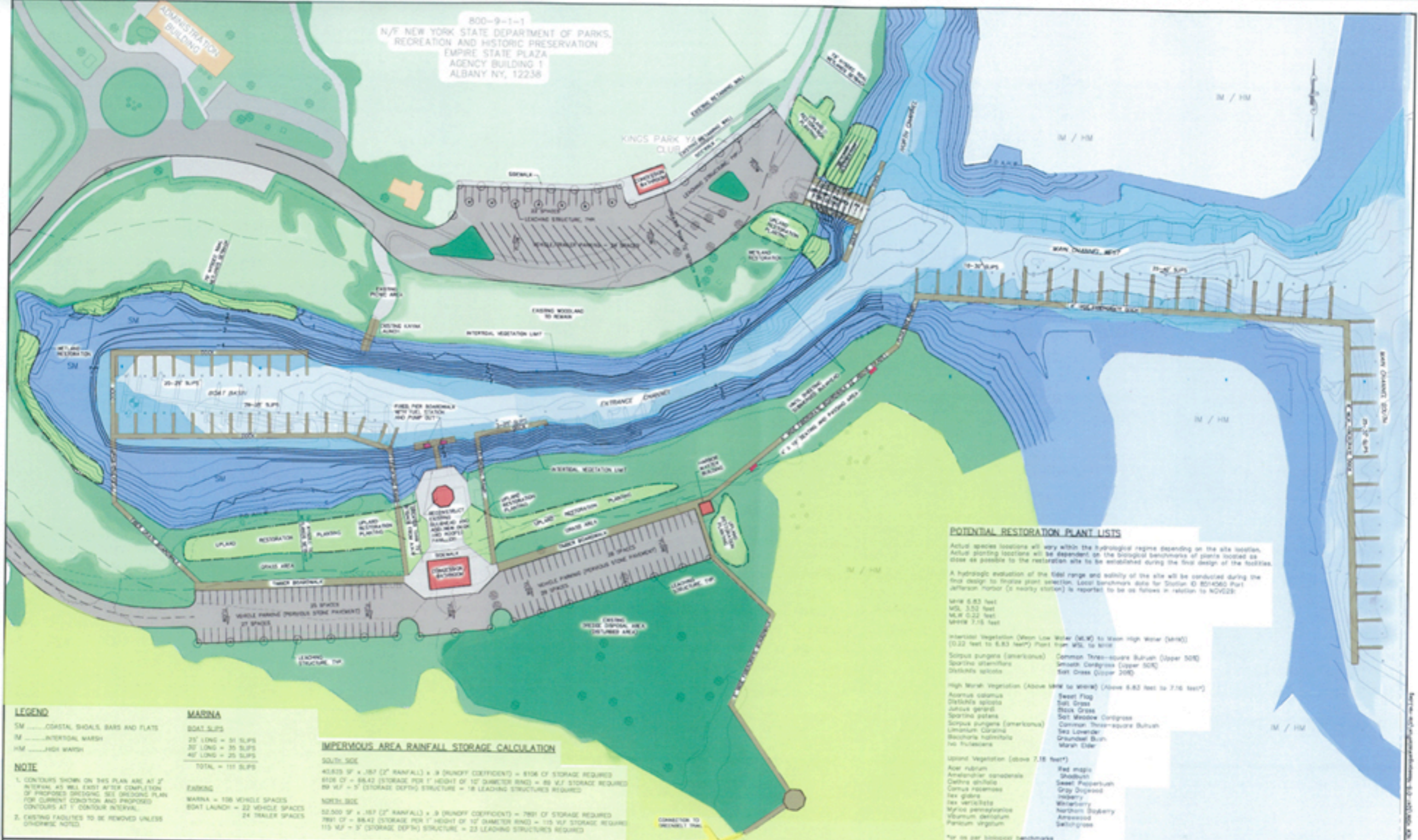


800-9-1-1
 N/Y STATE DEPARTMENT OF PARKS,
 RECREATION AND HISTORIC PRESERVATION
 EMPIRE STATE PLAZA
 AGENCY BUILDING 1
 ALBANY NY, 12238



LEGEND

SM COASTAL SHOALS, BARS AND FLATS
 IM INTERTIDAL MARSH
 HM HIGH MARSH

MARINA

BOAT SLIPS
 25' LONG = 31 SLIPS
 30' LONG = 35 SLIPS
 40' LONG = 25 SLIPS
 TOTAL = 111 SLIPS

NOTE

1. CONTOURS SHOWN ON THIS PLAN ARE AT 2' INTERVALS AND WILL EXIST AFTER COMPLETION OF PROPOSED DREDGING. SEE DREDGING PLAN FOR CURRENT CONDITION AND PROPOSED CONTOURS AT 1' CONTOUR INTERVAL.

2. EXISTING FACILITIES TO BE REMOVED UNLESS OTHERWISE NOTED.

IMPERVIOUS AREA RAINFALL STORAGE CALCULATION

SOUTH SIDE

43,825 SF x .187 (2" RAINFALL) x .9 (RUNOFF COEFFICIENT) = 8106 OF STORAGE REQUIRED
 8106 OF = 84.42 (STORAGE PER 1' HEIGHT OF 10" DIAMETER RING = 89 VLF STORAGE REQUIRED
 89 VLF = 5' (STORAGE DEPTH) STRUCTURE = 18 LEADING STRUCTURES REQUIRED

NORTH SIDE

22,200 SF x .187 (2" RAINFALL) x .9 (RUNOFF COEFFICIENT) = 7691 OF STORAGE REQUIRED
 7691 OF = 84.42 (STORAGE PER 1' HEIGHT OF 10" DIAMETER RING = 115 VLF STORAGE REQUIRED
 115 VLF = 5' (STORAGE DEPTH) STRUCTURE = 23 LEADING STRUCTURES REQUIRED

POTENTIAL RESTORATION PLANT LISTS

Actual species locations will vary within the hydrological regime depending on the site location. Actual planting locations will be dependent on the biological benchmarks of plants located as close as possible to the restoration site to be established during the final design of the facilities.

A hydrologic evaluation of the tidal range and velocity of the site will be conducted during the final design to further plant selection. Local benchmark data for Station ID 804060 Post Jefferson Harbor (a nearby station) is reported to be as follows in relation to NGVD29:

MLW 6.83 feet
 MLLW 5.52 feet
 MHW 0.22 feet
 MHW 7.15 feet

Intertidal Vegetation (Mean Low Water (MLW) to Mean High Water (MHW) (0.22 feet to 6.83 feet) Plant from MLLW to MLW)

Scirpus pungens (americanus)
Spartina alterniflora
Distichlis spicata

Common Three-square Bulrush (Upper 50%)
Smooth Cordgrass (Upper 50%)
Sea Grass (Upper 20%)

High Marsh Vegetation (Above MHW to MHW) (Above 6.83 feet to 7.15 feet)

Acorus calamus
Distichlis spicata
Juncus gerardi
Spartina patens
Scirpus pungens (americanus)
Utricularia
Wolffia
Wolffia

Upland Vegetation (above 7.15 feet)

Acer rubrum
Amelanchier canadensis
Celtis occidentalis
Cornus racemosa
Ilex glabra
Ilex verticillata
Myrica pennsylvanica
Viburnum dentatum
Parthenocissus vitacea

Red maple
Shadblow
Smooth Paspalum
Gray Dogwood
Juncus
Witchgrass
Northern Sparganium
Arrowweed
Saltgrass

For as per biological benchmarks

Cashin Associates, P.C.
 ENGINEERING • PLANNING • CONSTRUCTION MANAGEMENT

1300 Veterans Memorial Highway • Poughkeepsie, New York 11788 • 631.348.7600
 4700 Arsenal Way Plaza • Wood Stock, NY 12424 • 608.478.9954

NO.	DATE	REVISIONS FOR SPECIAL COMMENTS	DESCRIPTION
	8-12-07		

NEW YORK STATE
 OFFICE OF PARKS RECREATION AND HISTORIC PRESERVATION

NISSEQUOQUE RIVER
 STATE PARK MARINA
 KINGS PARK, NEW YORK

DATE: SEPTEMBER 2007
 DESIGNED BY: N.L.
 DRAWN BY: L.A.S.
 CHECKED BY: C.B.
 SCALE: 1" = 30'

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 DESIGNED BY: N.L.
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**MARINA IMPROVEMENTS
 SITE PLAN**

504104
 MARINA NUMBER
C201

50411 1 OF 4