

17. DIRECTIONS TO THE SITE

From Oak Harbor Ohio
South On SR 19 1.5 mile
Left on CR 17 7.5 mile
Right On SR 53 .5 mile
Left on Lattimore Rd 2 miles to Club House 3500 S Lattimore Rd

18. Nature of Activity (Description of project, include all features)

To Reconstruct approximately 13,000' of earthen berm in the Mud hole project area located in Muddy Creek Bay next to the mouth of the Sandusky River. The project includes a berm with 2:1 out side slope with rock placed the entire length, 3:1 inside slope with rock placed from the bottom up approximately 5' with a 6' shelf back to a 3:1 slope to the top, a top width of 12'. The proposed earthen berm includes approximately 135,375 cubic yards of silt and clay material along with approximately 12,683 cubic yard of rock rip rap. Rock spillways on the East and West side of the of the restoration site will allow flood waters to enter the 175 acre wetland at the O.H.W. levels. In addition a concrete culvert style fish structure will allow hydrologic exchange with Muddy Creek Bay and the restored wetland to provide water quality benefits, and spawning, nesting, nursery habitat needs for fish.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

The current site conditions are turbid open water with no wetland vegetation and little wetland wildlife value. The reconstruction of the earthen berm will facilitate water level management that will allow for the restoration of wetland and wildlife habitat, emulating historical conditions and providing resources in an area currently devoid of habitat. In addition to more common wetland species, listed species such as Blanding's Turtle, Eastern Foxsnake, Black Tern, King Rail, Red Knot, Black Crowned Night Heron, American Bittern, and Least Bittern are likely to benefit from the restored 175 acre Mud hole wetland project. In addition, the project will utilize unique spillways to capture, retain, and treat Sandusky River floodwaters and utilize fish passage structures to allow for fish access not typically provided in bermed wetlands. (See attached management plan).

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

To Permit the earthen berm reconstruction.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
Silt & Clay 135,375	Rock Rip Rap 12,683	

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

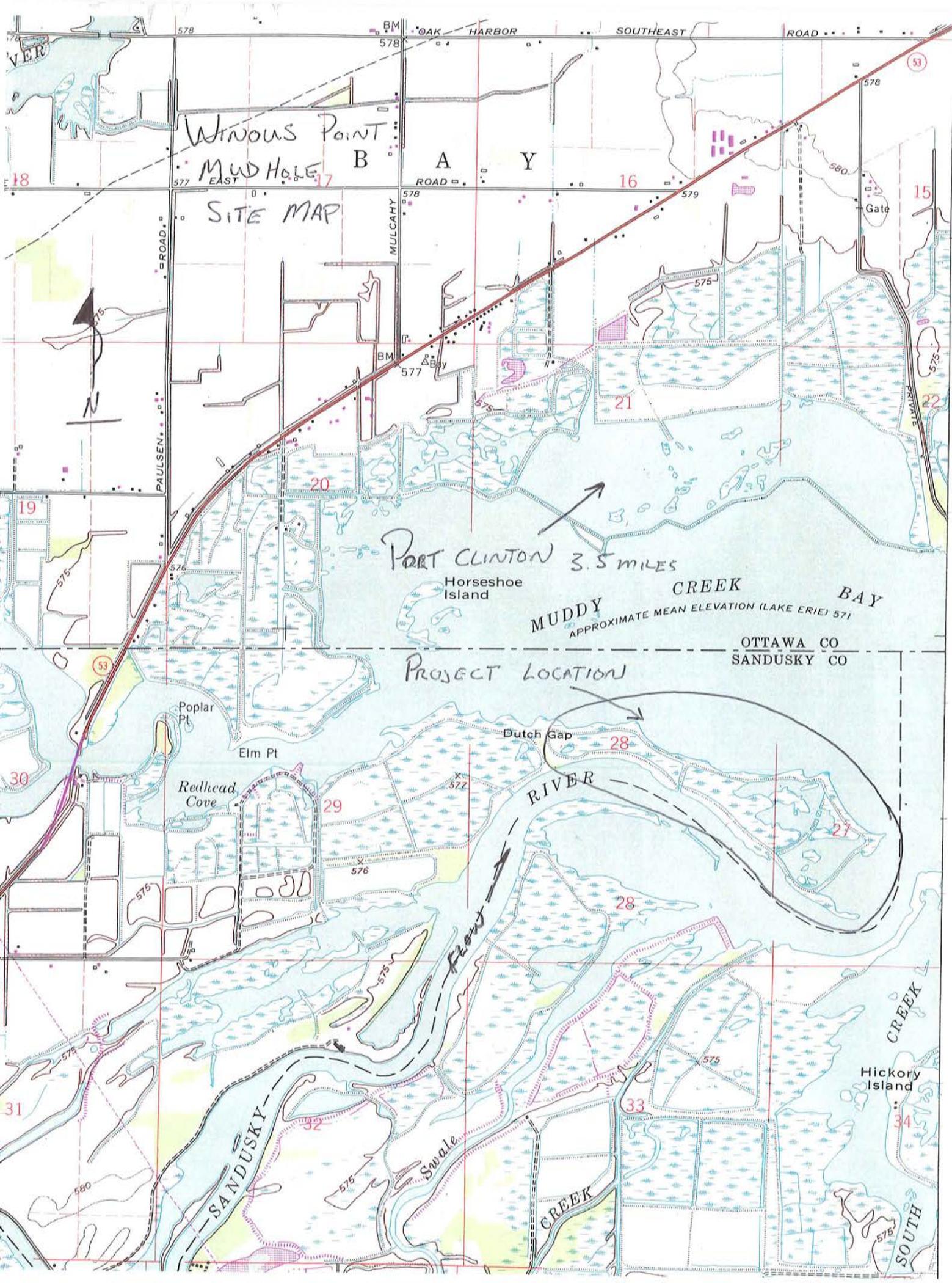
Acres 11.75

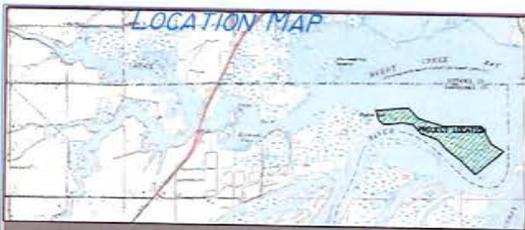
or

Linear Feet 13,000

23. Description of Avoidance, Minimization, and Compensation (see instructions)

The design of the proposed berm 2:1 & 3:1 side slopes and a small top width, along with reusing what is left of the old berm to avoid additional footprint minimizes fill and any adverse impacts that it may bring.



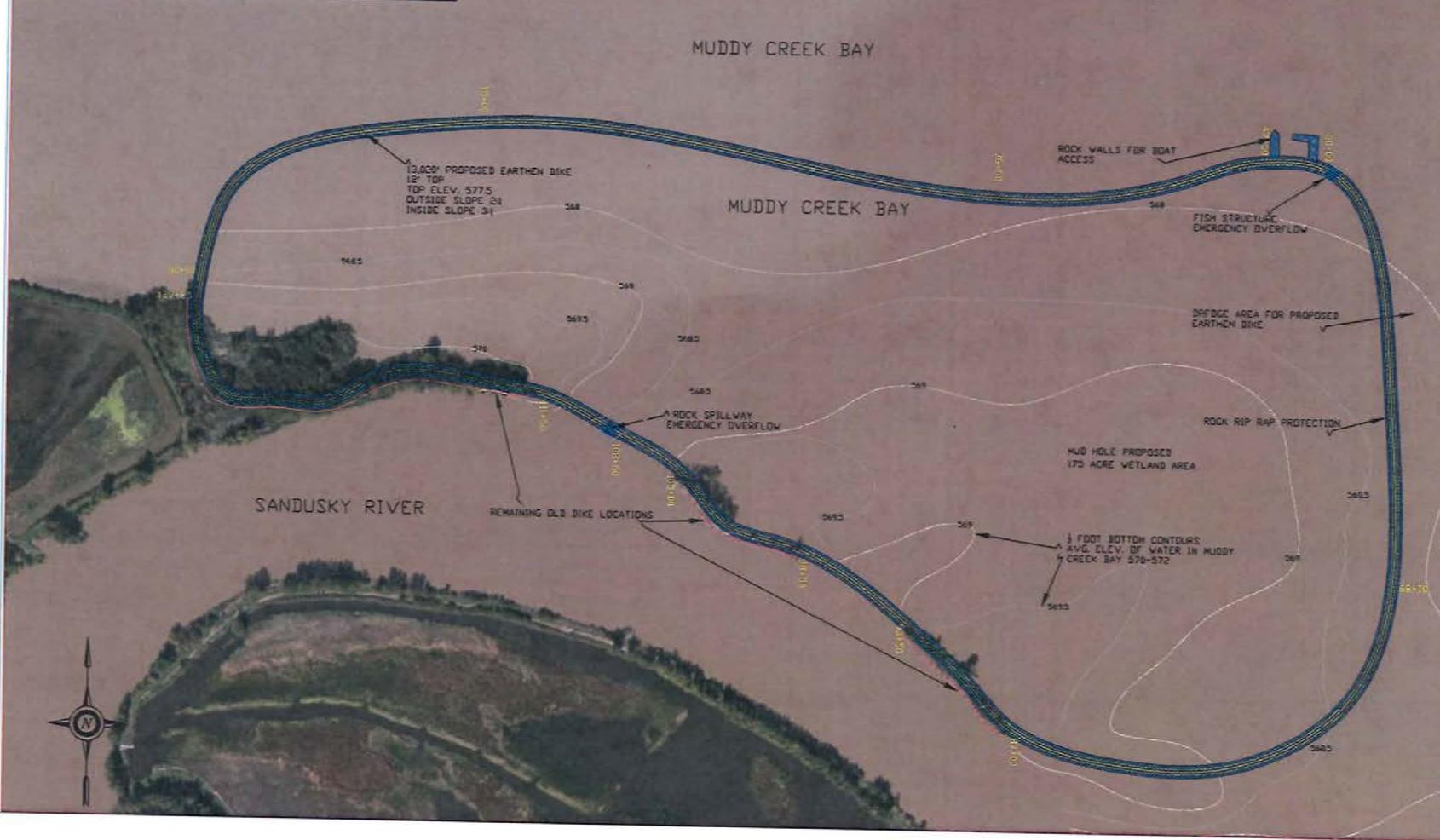


PROJECT MAP



DATE	APPROVED	TITLE

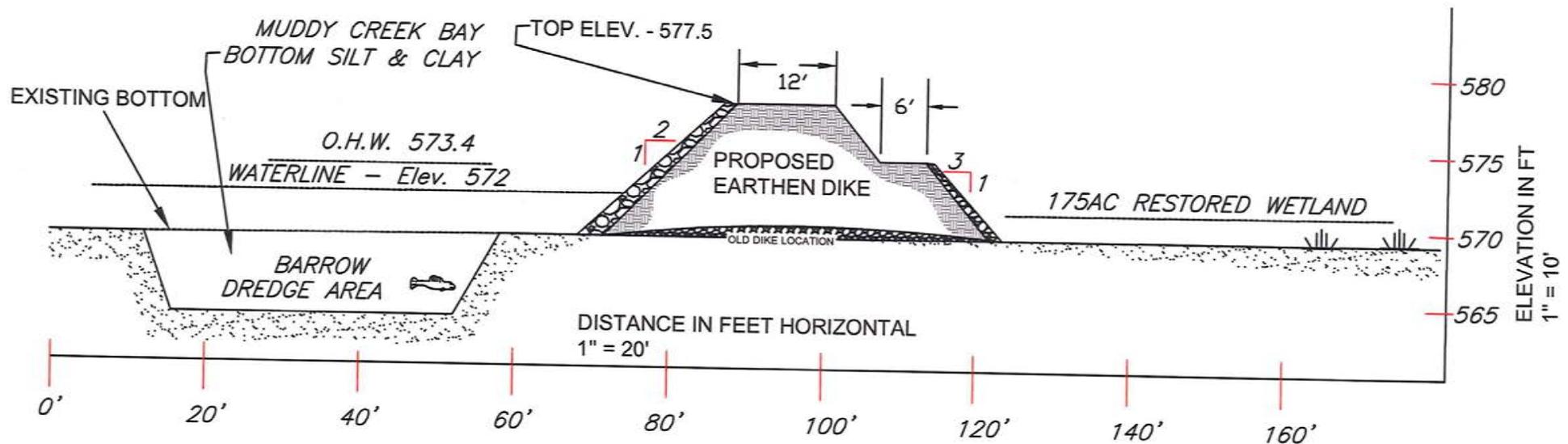
DATE	DESIGNED	DRAWN	REVIEWED	CHECKED
9/14	Joe Urbick			



MUD HOLE WETLAND
 OTTAWA SOIL & WATER CONSERVATION DISTRICT

CAD FILE LB
DRAWING NUMBER
Sheet ___ of ___

WINOUS PT. MARSH CONSERVANCY
MUD HOLE
DIKE CROSS SECTION
WITH SHORELINE PROTECTION
TYPICAL FOR STA: 00+00-87+00



ORIGINAL CONSTRUCTED DIKE WASHED OUT DURING HIGH WATER YEARS IN THE MID 1970'S
 A WRITTEN CONTRACT BETWEEN WINOUS POINT MARSH CONSERVANCY, USFWS, AND OHIO DIV. OF WILDLIFE WILL BE IN PLACE TO ENSURE THE PROPOSED PROJECT BE MAINTAINED AND MANAGED AS A NATURAL WETLAND.

LENGTH OF FILL 13,020'
 APPROX. 12,683 CYDS OF ROCK RIP RAP MATERIAL
 BELOW O.H.W. 6,639 CYDS OF ROCK

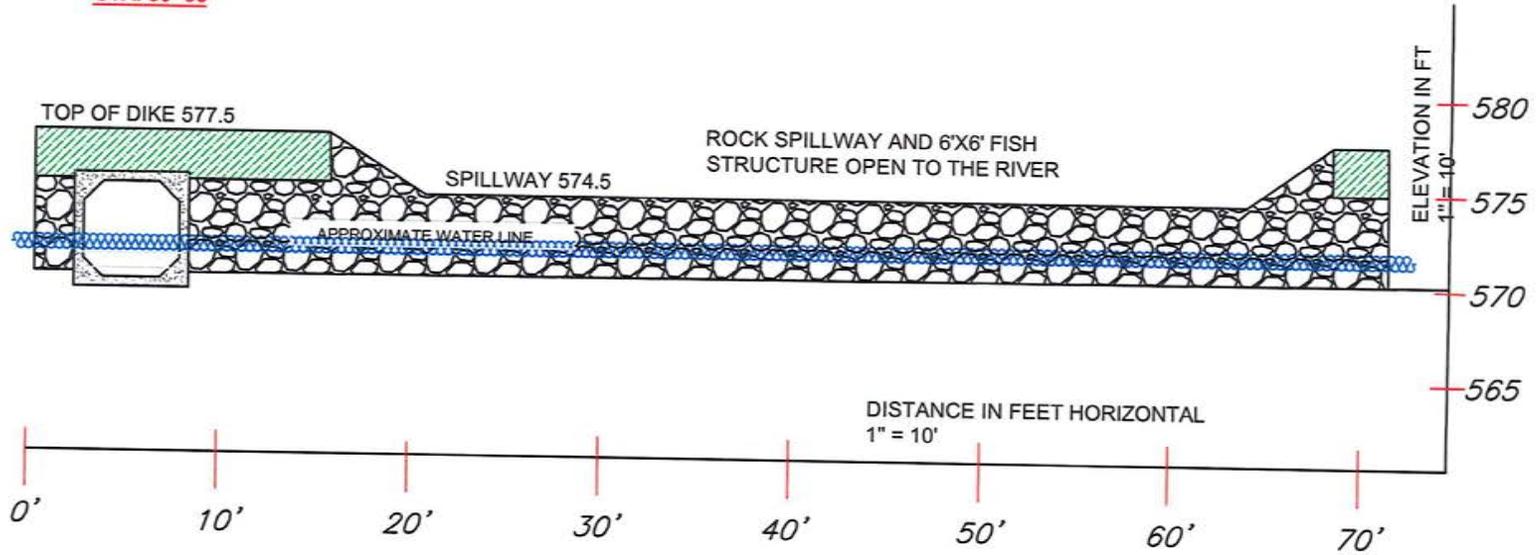
LENGTH OF FILL 13,020'
 APPROX. 135,375 CYDS OF CLAY MATERIAL
 BELOW O.H.W. 100,483 CYDS OF CLAY MATERIAL
 FILL ALONG MUDDY CREEK BAY 11.75 ACRES

LENGTH OF SHORE LINE BETWEEN PROPERTY LINES 3,000

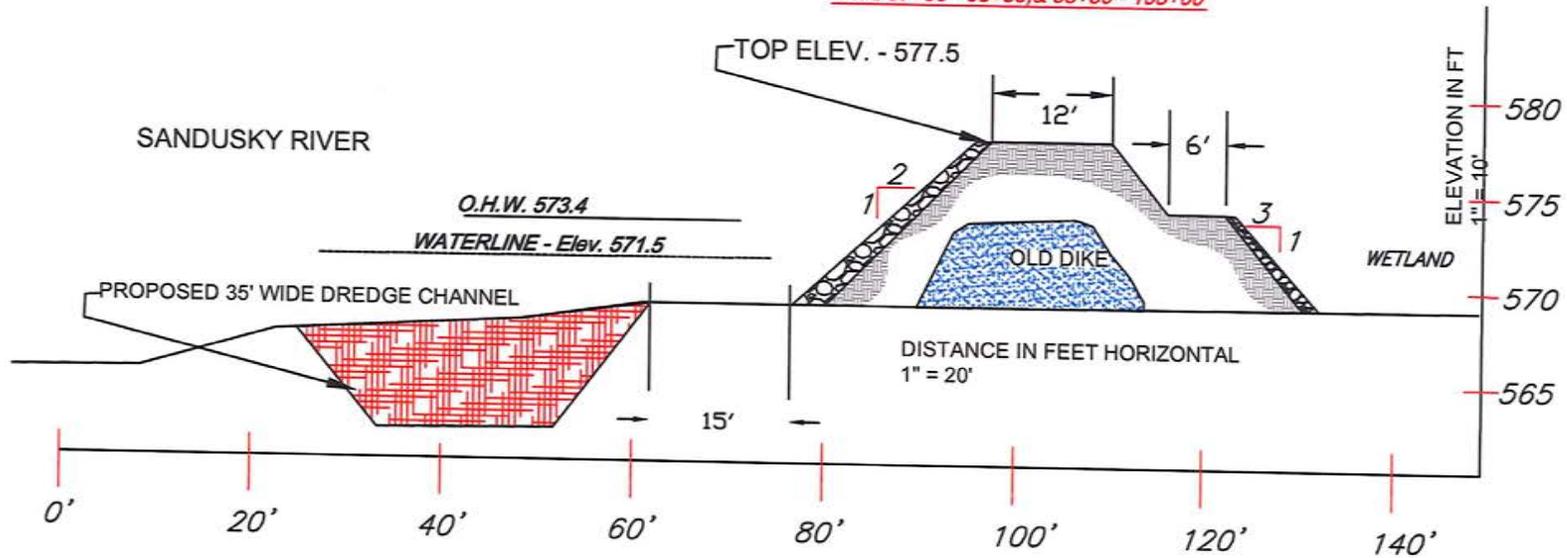
WORK TO BE DONE WITH AN DRAGLINE CRANE EXCAVATOR AND BULLDOZER

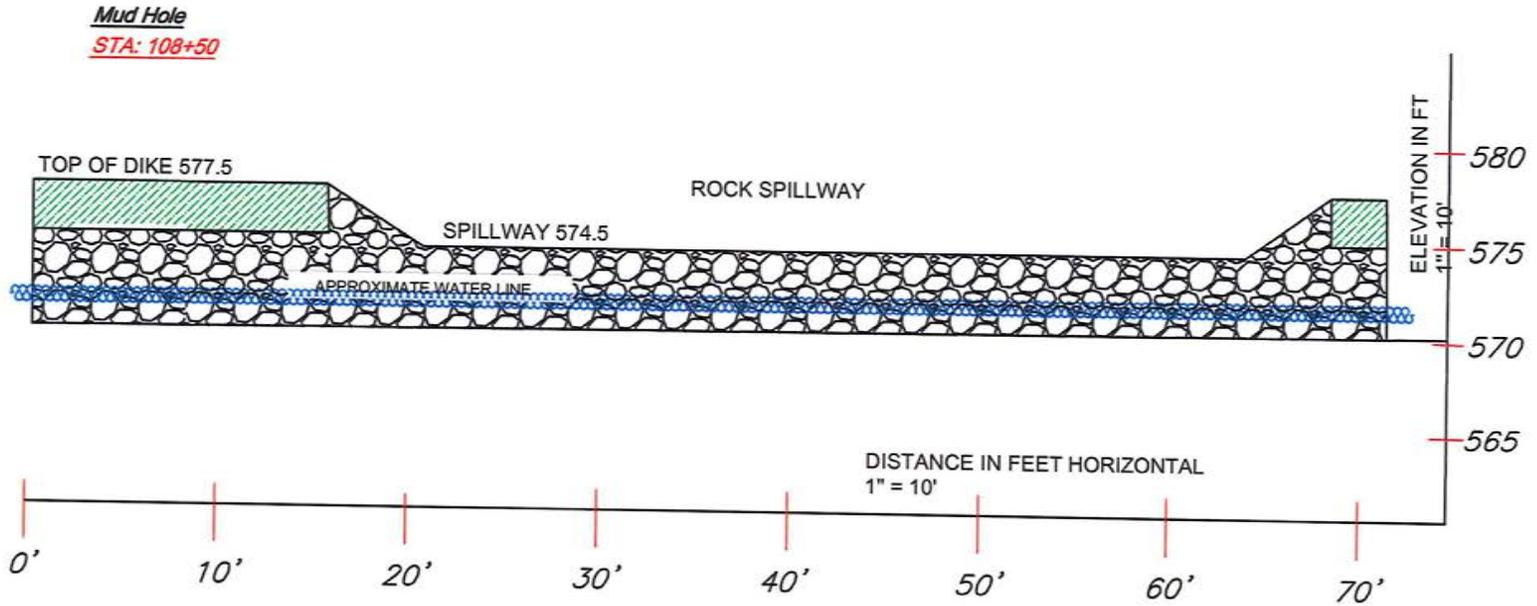
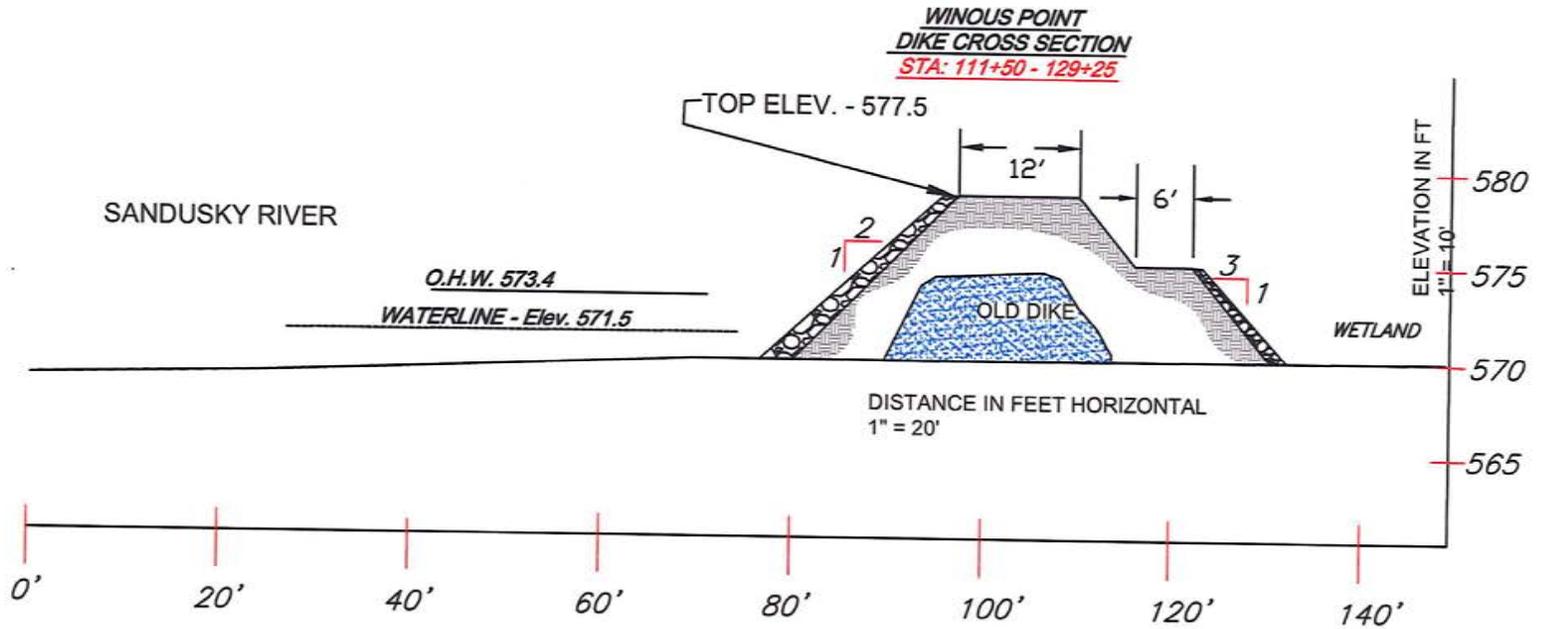
THE PROPOSED PROJECT WILL PROVIDE CAPACITY OF WETLAND MANAGEMENT TO CREATE AQUATIC HABITAT AND IMPROVE WATER QUALITY. A FISH STRUCTURE WILL ALLOW HYDROLOGIC EXCHANGE WITH MUDDY CREEK BAY AND THE IMPOUNDED WETLAND TO PROVIDE FLOOD RETENTION, NUTRIENT AND SEDIMENT TRAPPING, AND SPAWNING, NESTING, NURSERY AND OTHER HABITAT NEEDS OF FISH AND WILDLIFE..

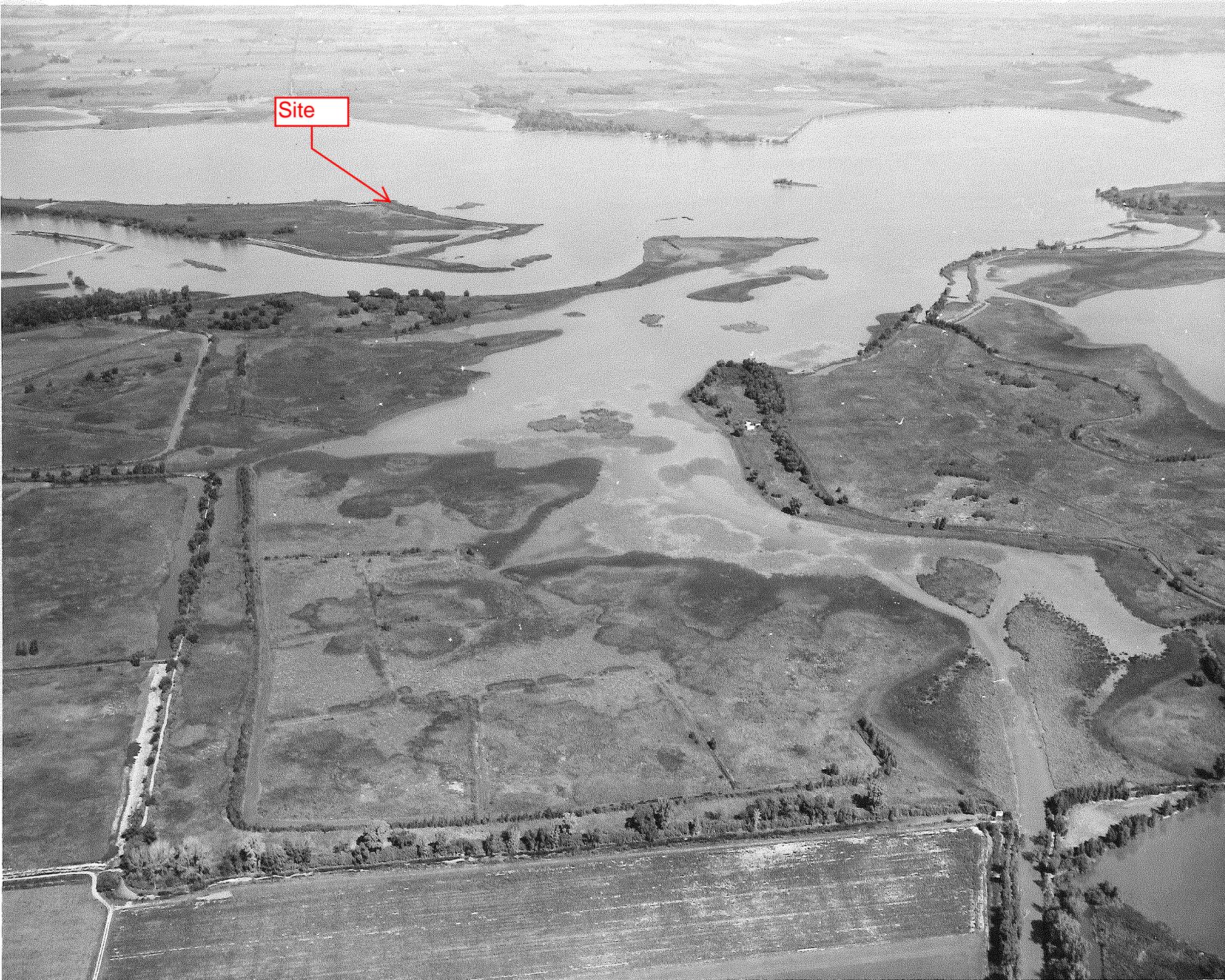
Mud Hole
STA: 50+00

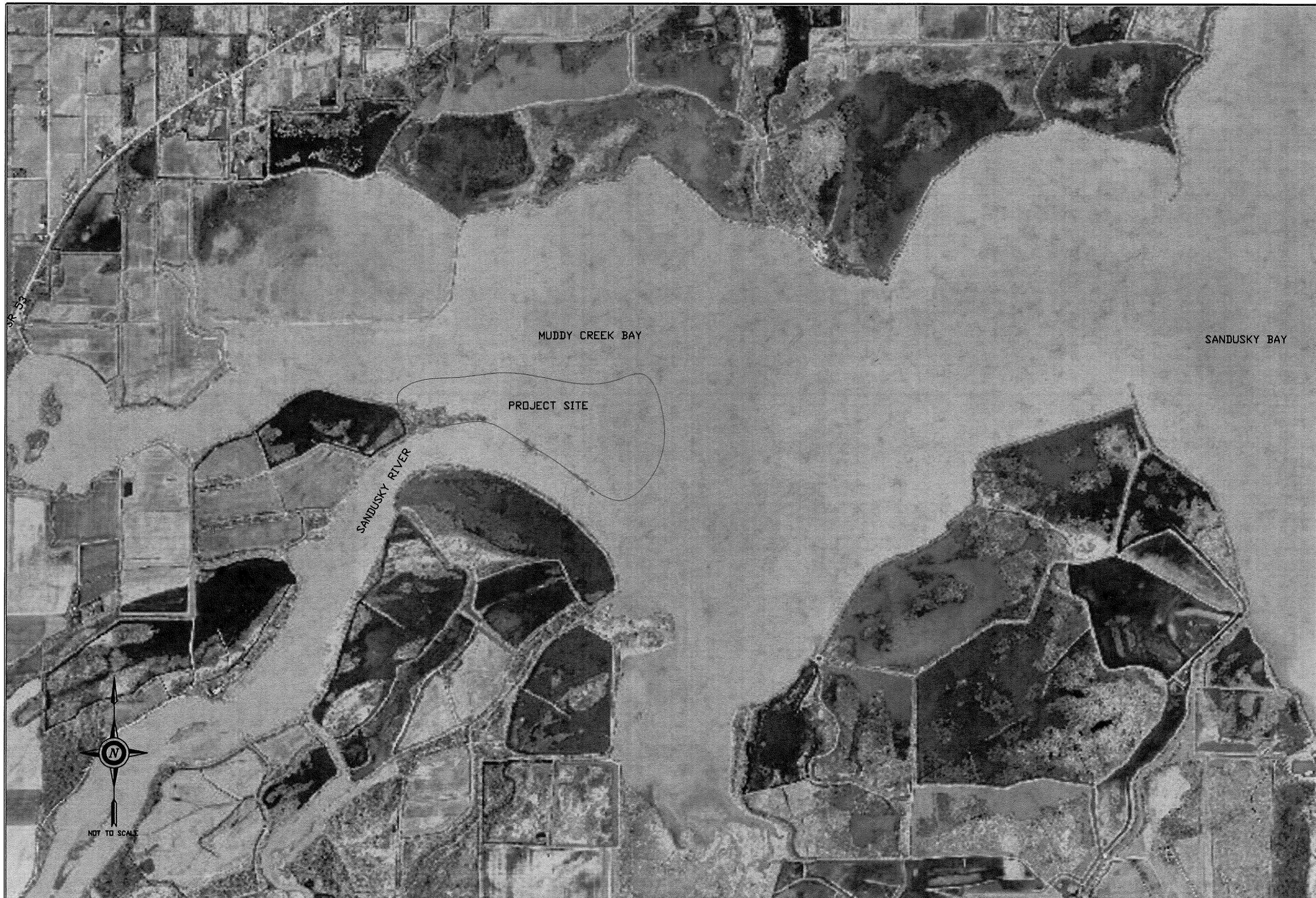


WINOUS POINT
DIKE CROSS SECTION
STA: 87+50 - 93+50, & 98+50 - 105+00









MUDDY CREEK BAY

SANDUSKY BAY

PROJECT SITE

SANDUSKY RIVER



NOT TO SCALE