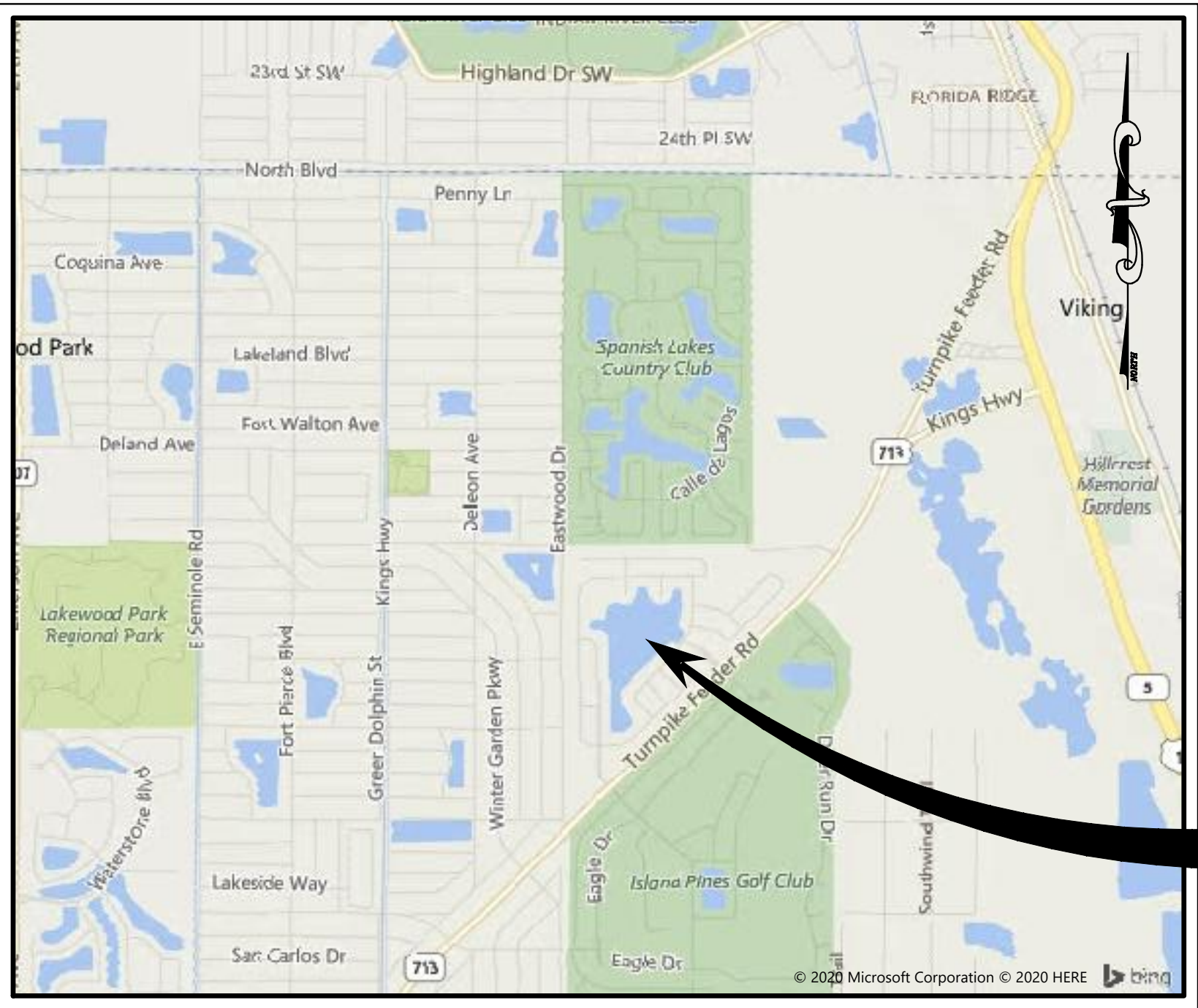
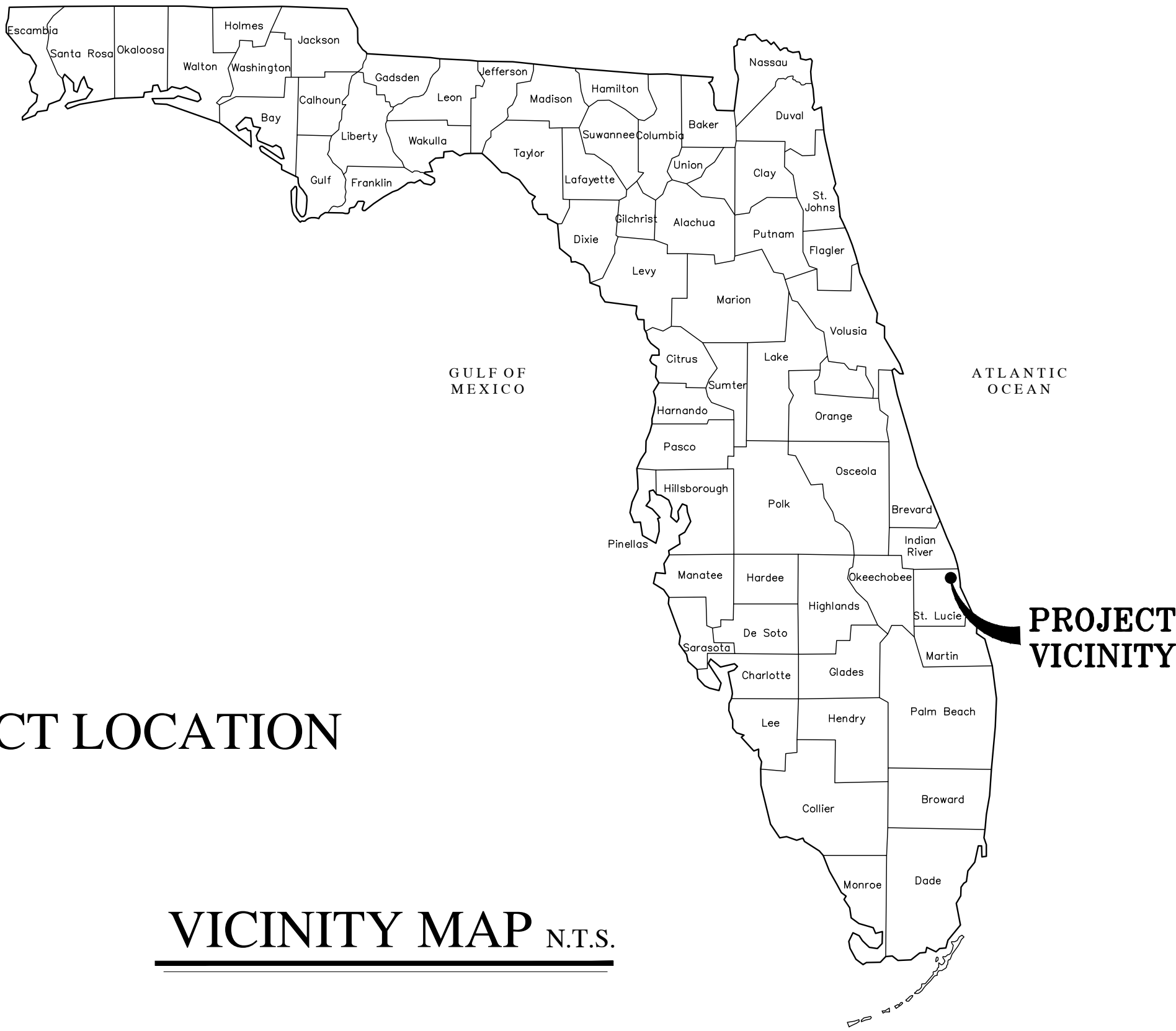


CONSTRUCTION PLANS
FOR
PORTOFINO SHORES LAKE BANK MAINTENANCE
PHASE IIB
IN
SECTION 12, TOWNSHIP 34 SOUTH, RANGE 40 EAST
ST. LUCIE COUNTY, FLORIDA
PREPARED FOR
PORTOFINO SHORES, CDD



LOCATION MAP N.T.S.
SECTION 12, TOWNSHIP 34 SOUTH, RANGE 40 EAST



VICINITY MAP N.T.S.

INDEX TO SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LAKE BANK MAINTENANCE PLAN
3	LAKE BANK MAINTENANCE PLAN DETAILS
4	LITTORAL DETAILS

REVISIONS	
SHEET NO.	DATE


BID SET PLANS
DECEMBER 13, 2022

THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY STEFAN K.
MATTHES, P.E. ON 12/13/2022 USING A
DIGITAL SIGNATURE. PRINTED COPIES OF
THIS DOCUMENT ARE NOT CONSIDERED
SIGNED AND SEALED AND THE SEA
AUTHENTICATION CODE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

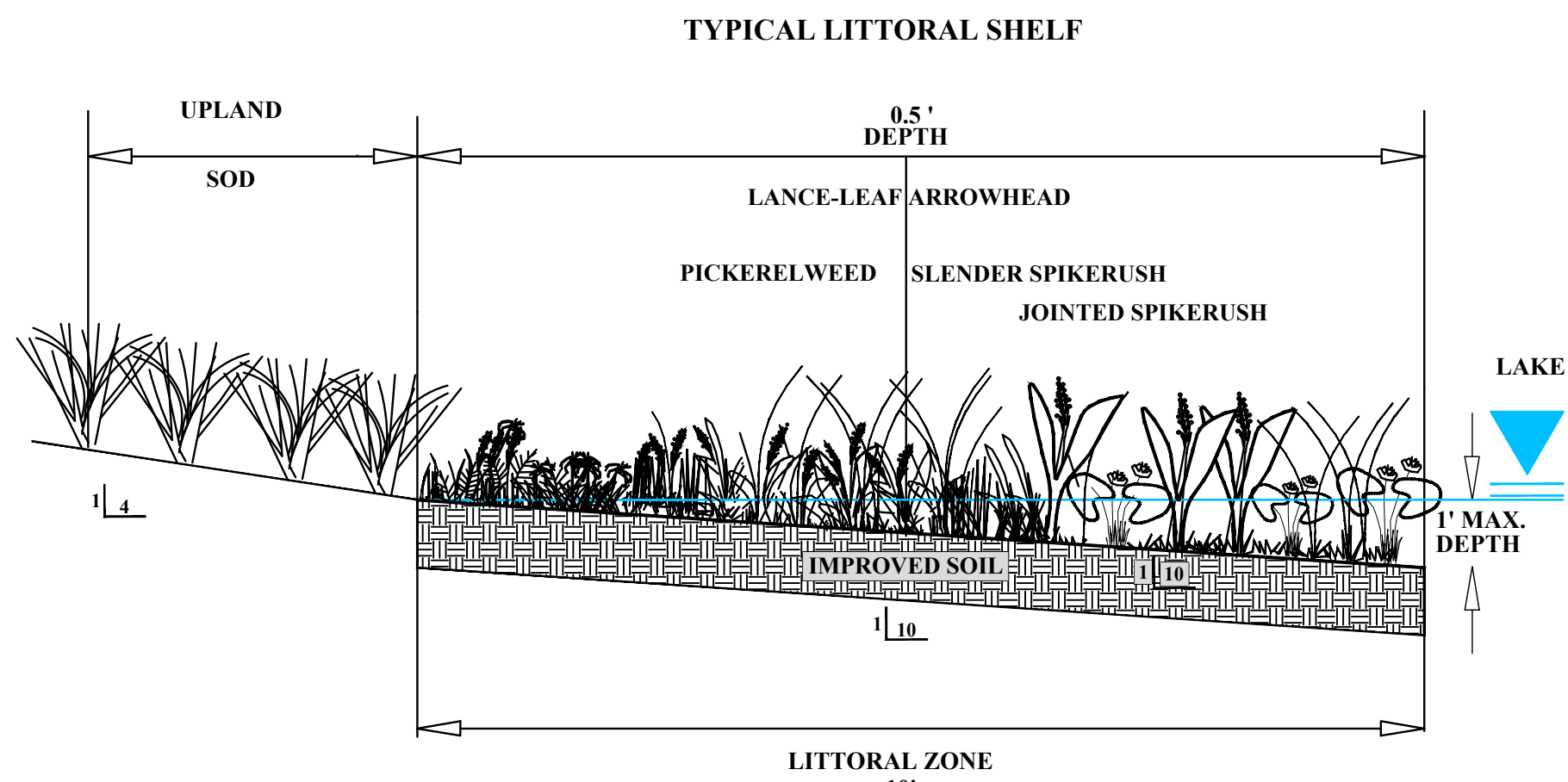
STEFAN K. MATTHES, P.E. REG. NO. 38723



DATUM NOTES:
1) ALL ELEVATIONS AND BENCHMARKS
SHOWN HEREON ARE RELATIVE TO THE
NORTH AMERICAN VERTICAL DATUM (N.A.V.D.)
OF 1988.



**CULPEPPER &
TERPENING INC**
2980 SOUTH 25th STREET • FORT PIERCE, FLORIDA 34981
PHONE 772-464-3537 • FAX 772-464-9497 • www.ct-eng.com
STATE OF FLORIDA BOARD OF PROFESSIONAL
ENGINEERS AUTHORIZATION NO. 4286



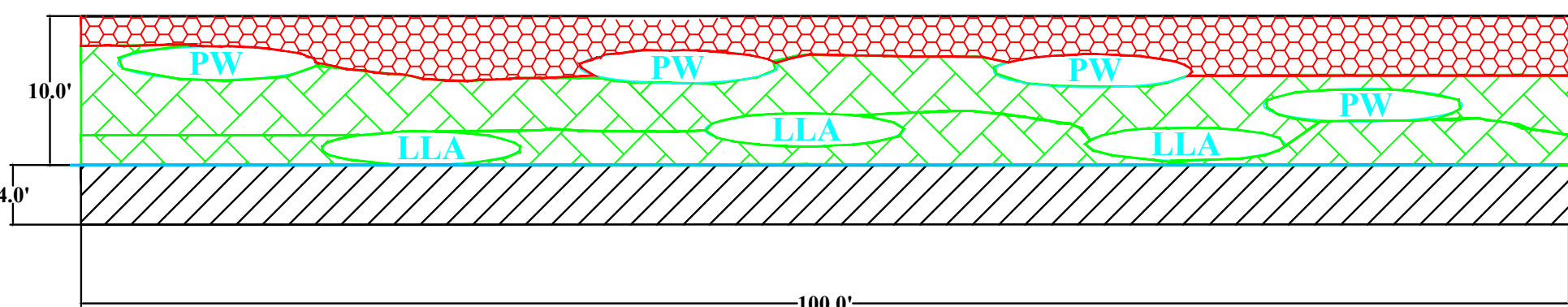
NOTES:

1. PLANTS NATIVE TO FLORIDA MAY BE SUBSTITUTED FOR THOSE LISTED, ACCORDING TO AVAILABILITY AND SIZE, WITH THE WRITTEN AUTHORIZATION OF THE ENVIRONMENTAL CONSULTANT.
2. LOCATION OF PLANTS MAY BE FIELD ADJUSTED IN ORDER TO PROVIDE THE BEST GROWING CONDITIONS.
3. PLANT MATERIAL SHALL BE INSPECTED BY THE ENVIRONMENTAL CONSULTANT PRIOR TO INSTALLATION.
4. ALL PLANTS SHALL BE INSTALLED IN HEALTHY AND VIGOROUS CONDITION, AND SHALL BE FREE OF WEEDS, DISEASE, AND INSECT PESTS, EGGS OR LARVAE.
5. CONTRACTOR IS RESPONSIBLE FOR THE PROPER WATERING AND FERTILIZATION OF THE INSTALLED PLANTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR.
6. ALL LITTORAL PLANT SPECIES TO BE PLANTED 2' ON CENTER AND MAY CONSIST OF BARE ROOT OR POTTER PLANTS.

SCALE: N.T.S.

1000 FEET OF SHORELINE

COMMON NAME	SCIENTIFIC NAME	DENSITY	SIZE	UNITS
JOINTED SPIKERUSH	<i>Eleocharis interstincta</i>	2' O.C.	BR	6000
LANCE-LEAF ARROWHEAD	<i>Sagittaria lancifolia</i>	1' O.C.	BR	1650
PICKERELWEED	<i>Pontederia cordata</i>	1' O.C.	BR	1650
SAND CORDGRASS OR SOD	<i>Spartina bakeri</i>	2' O.C.	BR	500
SLENDER SPIKERUSH	<i>Eleocharis baldwinii</i>	2' O.C.	BR	500

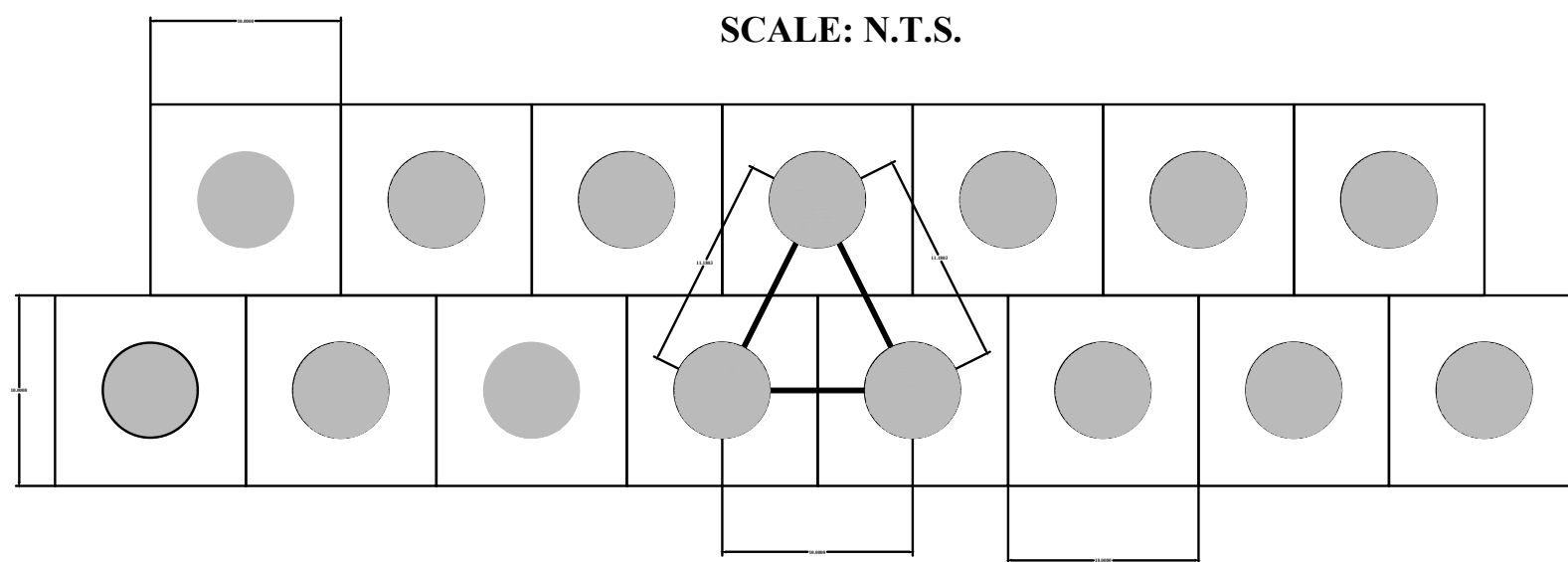


TYPICAL 100' SECTION

CALL 48 HOURS BEFORE
YOU DIG IN FLORIDA
1-800-432-4770
IT'S THE LAW!
SUNSHINE STATE ONE CALL
OF FLORIDA, INC.

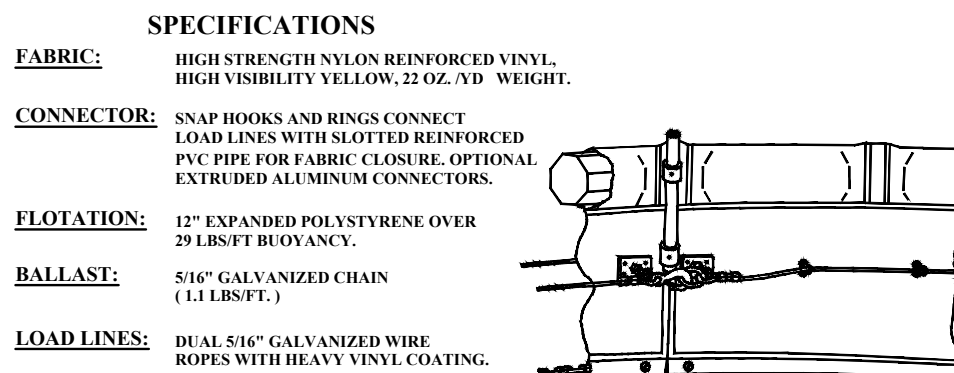
PLANTING PODS

5 PLANTS PER POD



SPACING OF PLANTS
ONE (1) PLANT PER FOUR (4) SQUARE FEET
TWO (2) FOOT ON CENTERS
10,890 PLANTS PER ACRE

TURBIDITY CURTAIN



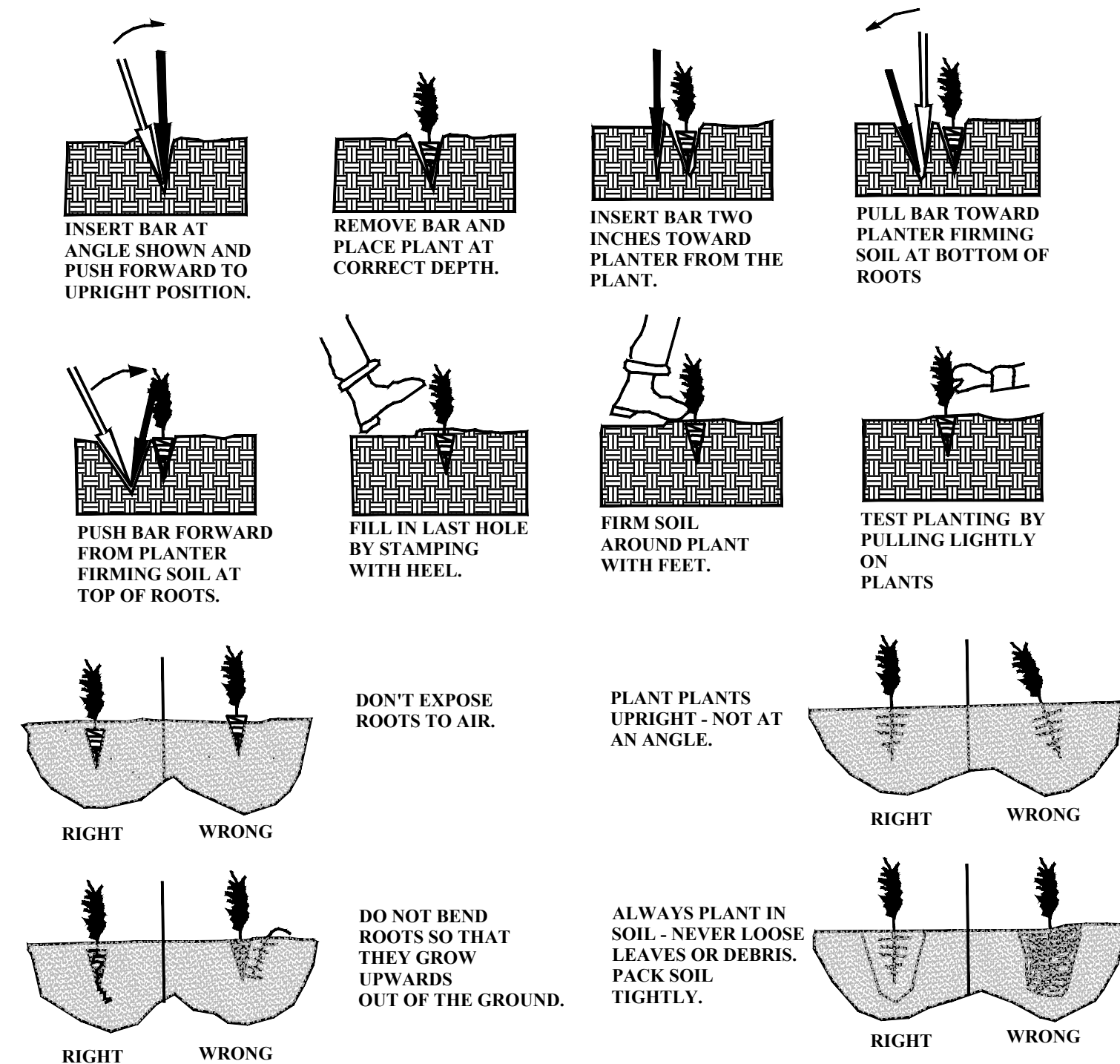
TURBIDITY CURTAINS ARE TO REMAIN IN PLACE FOR A PERIOD OF TIME NOT LESS THAN SEVEN (7) DAYS AFTER WORK HAS BEEN COMPLETED AND TURBIDITY LEVELS ARE EQUAL TO OR BELOW BACKGROUND N.T.U. LEVELS.

GENERAL NOTES

1. PLANTS NATIVE TO FLORIDA MAY BE SUBSTITUTED FOR THOSE LISTED, ACCORDING TO AVAILABILITY AND SIZE, WITH THE WRITTEN AUTHORIZATION OF THE AGENCIES AND THE ENVIRONMENTAL CONSULTANT.
2. LOCATION OF PLANTS MAY BE FIELD ADJUSTED IN ORDER TO PROVIDE THE BEST GROWING CONDITIONS.
3. PLANT MATERIAL SHALL BE INSPECTED BY THE ENVIRONMENTAL CONSULTANT PRIOR TO INSTALLATION.
4. ALL PLANTS SHALL BE INSTALLED IN HEALTHY AND VIGOROUS CONDITION, AND SHALL BE FREE OF WEEDS, DISEASE, AND INSECT PESTS, EGGS OR LARVAE.
5. CONTRACTOR IS RESPONSIBLE FOR THE PROPER WATERING AND FERTILIZATION OF THE INSTALLED PLANTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR.
6. ROOT BOUND CONTAINER PLANTS WILL NOT BE ACCEPTED.
7. USE FLORIDA GOLD NO FLOAT CYPRESS MULCH OR EQUIVALENT.

OPTION C - LITTORAL PLANTING

N.T.S.



PLANTING BARE ROOT PLANTS

GENERAL NOTES

DEFINITION OF IMPROVED SOIL

IMPROVED SOIL IS DEFINED AS A TOPSOIL MIXTURE COMPRISED OF PEAT, SAND OR MUCK WITH AN ORGANIC MATTER CONTENT OF FIVE (5) PERCENT BY WEIGHT (ASTM STANDARD TEST METHOD D 2974-00) THE IMPROVED SOIL SHALL BE SUITABLE FOR AND CAPABLE OF SUPPORTING WETLAND VEGETATION AND SHALL BE FREE OF EXOTIC OR INVASIVE PLANT SEED SOURCES. ALL IMPROVED SOIL MUST BE APPROVED BY THE PROJECT ENGINEER BEFORE PLACEMENT IN MITIGATION AREAS.

GRADE STANDARDS AND QUALITY

QUALITY OF ALL PLANTS SHALL BE AT LEAST EQUAL TO THAT OUTLINED AS NO. 1 IN GRADES AND STANDARDS FOR NURSERY PLANTS, PART 1, 1963, REVISED EDITION AND PART 1, PALMS AND TREES, BY THE STATE PLANT BOARD OF FLORIDA. ALL PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL HAVE HEALTHY, WELL DEVELOPED ROOT SYSTEMS, AND SHALL BE FREE OF DISEASES AND INSECT PESTS, EGGS, OR LARVAE. ALL PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED HEREIN OR INDICATED ON THE CONTRACT DRAWINGS.

TRANSPORTATION AND INSPECTION

PLANT TRANSPORTATION SHALL COMPLY WITH ALL FEDERAL AND STATE REGULATIONS, THEREFORE, AND UPON DELIVERY AT THE SITE, ALL PLANTS SHALL BE INSPECTED BY THE PROJECTS ENVIRONMENTAL CONSULTANT FOR CONFORMITY TO SPECIFICATIONS AND FOR HANDLING DAMAGE. THE CONTRACTOR SHALL PROVIDE THE ENVIRONMENTAL CONSULTANT WITH A 24-HOUR NOTICE BEFORE ANY REQUESTED INSPECTION. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE BY THE CONTRACTOR. TREES THAT HAVE TO BE TRANSPORTED MORE THAN ONE (1) MILE TO REACH THE PROJECT SITE SHALL BE TREATED WITH "WILT PRUF" AND COVERED WITH A 70 % SHADE-CLOTH-TARP OR EQUIVALENT TO PREVENT WIND BURN.

STEFAN K. MATTHES, P.E.
FL. REG. NO. 38723

COMPUTER FILE REF.	FIELD BK./PG.

COMPUTER FILE REF.	FIELD BK./PG.

CULPEPPER & TERPENING INC
2980 SOUTH 25th STREET • FORT PIERCE, FLORIDA 34981
PHONE 772-464-3537 • FAX 772-464-9497 • www.ct-eng.com
STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

- R E V I S I O N S -	BY	DATE

BY	DATE
DESIGNED SKM	#####
CALCS. DRP	10/28/22
DRAWN	
CHECKED ##	#####
APPROVED SKM	10/31/22

PORTOFINO SHORES LAKE BANK MAINTENANCE PHASE IIB
LITTORAL DETAILS

DATE: 11/1/2022
HORIZ. SCALE: N/A
VERT. SCALE: N/A
JOB No. 02-037
SHEET 4 of 4