

NAPLES BAY OYSTER RESTORATION
CONSTRUCTION DRAWINGS
CITY OF NAPLES, COLLIER COUNTY, FLORIDA

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PERMIT APPLICATION
PURPOSES ONLY
NOT FOR
CONSTRUCTION

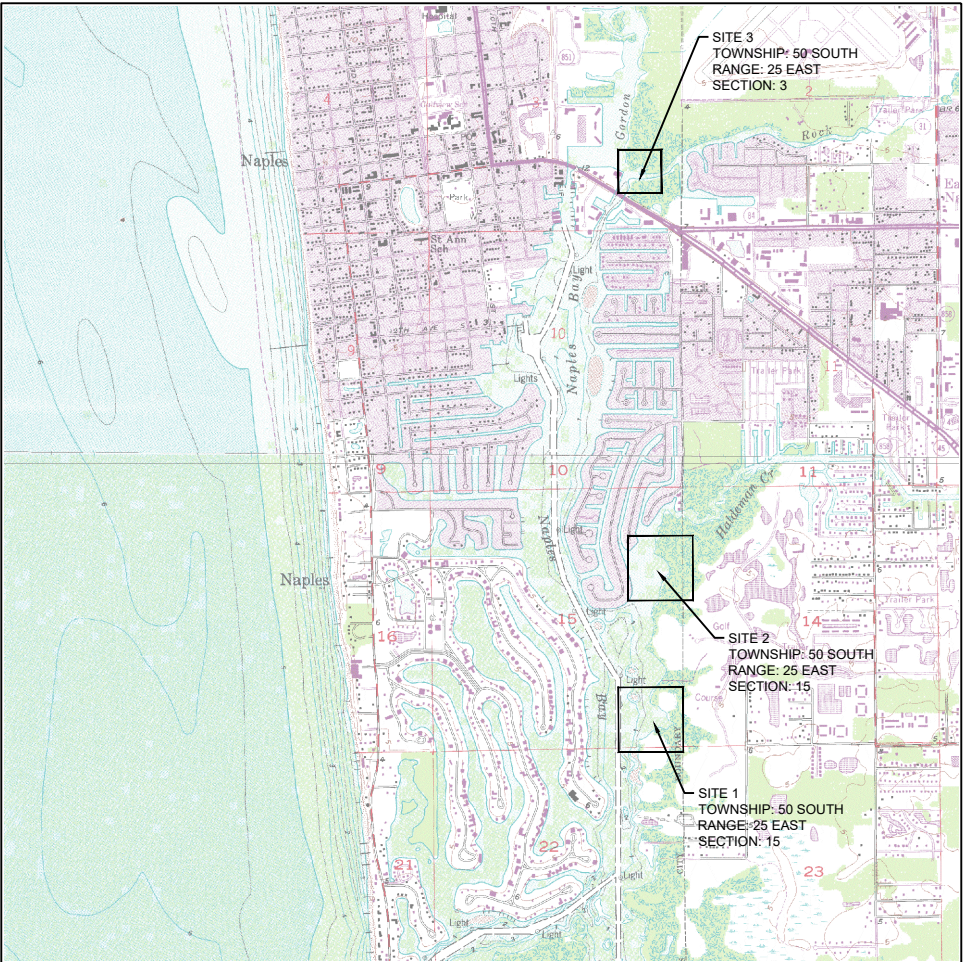


LOCATION MAP
N.T.S.



DRAWING INDEX

- C-1 TITLE SHEET
- C-2 PROJECT NOTES
- C-3 PROJECT OVERVIEW & STAGING AREAS
- C-4 APPROXIMATE MUCK DEPTHS SITE 1
- C-5 APPROXIMATE MUCK DEPTHS SITE 2
- C-6 APPROXIMATE MUCK DEPTHS SITE 3
- C-7 SITE PLAN SITE 1
- C-8 SITE PLAN SITE 2
- C-9 SITE PLAN SITE 3
- C-10 REEFBALL TYPICAL DETAILS
- C-11 OYSTER BAG & MARINE MATTRESS DETAILS
- C-12 USCG SIGNAGE DETAILS
- C-13 EROSION & SEDIMENT CONTROL DETAILS



VICINITY MAP
1" = 2,000' (22x34)
1" = 4,000' (11x17)

REFERENCE:
USGS 7.5' QUADRANGLE MAPS
NAPLES NORTH, FLORIDA 1991
NAPLES SOUTH, FLORIDA 1991

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TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD.
BLDG. 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
(904)-731-7040
1675 PALM BEACH LAKES, SUITE 210
WEST PALM BEACH, FLORIDA 33401
(561)-640-7310
CERTIFICATE OF AUTHORIZATION # 4815

PRELIMINARY DRAWINGS: THESE
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PROJECT TITLE

NAPLES BAY
OYSTER RESTORATION
CONSTRUCTION DRAWINGS
CITY OF NAPLES, COLLIER COUNTY, FLORIDA

PROJECT NO

C2015-037

DATE

SEPTEMBER 2016

SEAL

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CLIFFORD L. TRUITT P.E. # 21194

C-1

SHEET 1 OF 13

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PROJECT NOTES
DEFINITIONS

1. OWNER: CITY OF NAPLES AND THE ENTITY UNDER CONTRACT WITH THE CONTRACTOR TO PERFORM THE WORK.
2. ENGINEER: OWNER'S DESIGNATED REPRESENTATIVE FOR CONSTRUCTION INSPECTION AND OVERSIGHT.
3. ENGINEER OF RECORD (EOR): ENGINEER WHOSE NAME AND SEAL IS AFFIXED TO THE DRAWINGS AND SPECIFICATIONS.
4. RECORD DRAWINGS: RECORD DRAWINGS SHALL BE DEFINED AS A COPY OF THE ORIGINAL SIGNED AND SEALED DRAWINGS KEPT ONSITE AT ALL TIMES WHERE THE CONTRACTOR SHALL KEEP A RECORD OF ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS MARKED IN RED PENCIL OR PEN.
5. U.N.O. : UNLESS NOTED OTHERWISE

PROJECT NOTES:

1. ALL ELEVATIONS SHOWN ARE IN FEET AND REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. HORIZONTAL COORDINATES ARE BASED ON STATE PLANE COORDINATE SYSTEM FOR THE EAST ZONE (901) OF FLORIDA NAD 83/90.
3. BATHYMETRIC SURVEYS CONDUCTED ON MARCH 2016 BY DaGOSTINO & WOOD, INC. THE INFORMATION DEPICTED ON THESE DRAWINGS REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATIONS OF GENERAL CONDITIONS EXISTING AT THAT TIME.

GENERAL NOTES

1. THE CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE PRIOR TO INITIATING ANY CONSTRUCTION.
2. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL STRUCTURES, OYSTER REEFES AND EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWINGS.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION TOGETHER WITH CITY OF NAPLES TO ENSURE PUBLIC AND PRIVATE SAFETY IN AND AROUND THE CONSTRUCTION SITE.
4. THE CONTRACTOR SHALL PLACE WARNING BUOYS AND SIGNS INDICATING THE AREAS AND LIMITS OF CONSTRUCTION.
5. THE CONTRACTOR SHALL COORDINATE WORK HOURS WITH OWNER TO MEET PROJECT SCHEDULE REQUIREMENTS.
6. THE CONTRACTOR SHALL MAINTAIN A SET OF RECORD DRAWINGS AND SHALL KEEP A RECORD OF ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS MARKED IN RED PENCIL OR PEN. THE RECORD DRAWINGS SHALL BE KEPT ONSITE AND SHALL BE AVAILABLE FOR INSPECTION BY THE ENGINEER.
7. WHEN ALL SUBSTANTIAL WORK IS DONE AND BEFORE NOTICE OF FINAL COMPLETION OF THE WORK, THE CONTRACTOR SHALL SUBMIT THE ORIGINAL RECORD DRAWINGS TO THE ENGINEER AND UP TO 5 FULL SIZE OR REDUCED SIZE COPIES AS REQUESTED BY THE ENGINEER.
8. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR INSPECTION BY THE ENGINEER, REGULATORY AGENCIES, AND OWNER.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE ENGINEER AS NECESSARY FOR CONSTRUCTION INSPECTION AND AS-BUILT CERTIFICATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT APPROPRIATE AND APPROVED TIMES DURING THE COURSE OF THE WORK THAT THE CONTRACTOR IS READY FOR INSPECTION. WORK THAT IS ASSEMBLED OR COVERED SO THAT THE ENGINEER CANNOT INSPECT THE WORK PROPERLY SHALL BE DISASSEMBLED, UNCOVERED, OR DESTROYED AS NECESSARY FOR INSPECTION. THE COSTS OF REPAIR OR RESTORATION OF THIS WORK SHALL BE BORNE SOLELY BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL PROVIDE PERSONNEL AND EQUIPMENT FOR ENGINEER TO INSPECT AND INQUIRE ABOUT THE WORK. THIS MAY INCLUDE PROJECT MANAGERS, SUPERINTENDENTS, FOREMAN, LABORERS, LADDERS, HARD HATS, LIFTS, SCAFFOLDING, MEASURING DEVICES, SURVEY EQUIPMENT, LIFE JACKETS, ETC.
11. THE CONTRACTOR SHALL WARRANTY THE WORK FOR A MINIMUM OF ONE YEAR UNLESS CLEARLY DEFINED OTHERWISE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE MATERIALS AND WORK AT NO COSTS TO THE OWNER WITHIN THE STATED WARRANTY PERIOD.
12. ALL PERMANENT MATERIAL SHALL BE NEW. USED, RECONDITIONED, OR REMANUFACTURED MATERIAL SHALL NOT BE ALLOWED UNLESS APPROVED BY THE OWNER IN WRITING.
13. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
14. THE CONTRACTOR SHALL VERIFY THE EXISTENCE OF ALL ABOVE-GROUND, BELOW-GROUND, AND SUBMERGED UTILITIES WITHIN THE SITES. IF ANY UTILITIES ARE FOUND, CONTRACTOR MUST LOCATED & MARK LOCATIONS BEFORE BEGINNING WORK.
15. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ADJACENT FACILITIES AND STRUCTURES CAUSED BY HIS ACTIVITIES DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL RESTORE ALL SUCH DAMAGES TO THEIR PRE-CONSTRUCTION CONDITION AT NO COSTS TO THE OWNER.
17. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. EROSION CONTROL MEASURES MUST BE IMPLEMENTED PRIOR TO ANY WORK COMMENCING AND BE MAINTAINED FOR THE DURATION OF THE PROJECT AND ONLY REMOVED WHEN ALL CONSTRUCTION AND INSTALLATION OF ALL OYSTER MESH BAGS, REEFBALL UNITS AND FOUNDATIONS FOR REEFBALL UNITS HAS BEEN COMPLETED.
18. THE CONTRACTOR MUST HAVE ALL USCG WARNING SIGNAGE AND ANY OTHER REQUIRED MARKERS, AND WARNING BUOYS IN PLACE BEFORE REMOVING WARNING BUOYS AND SIGNS INDICATING THE AREAS AND LIMITS OF CONSTRUCTION AND EROSION CONTROL MEASURES TO ENSURE THE PUBLIC IS AWARE OF PERMANENT SUBMERGED STRUCTURES WITHIN THE WATERWAYS.

PERMITS AND PERMIT CONDITIONS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT SUPPLIED BY THE OWNER. COSTS OF OBTAINING PERMITS NOT SUPPLIED BY THE OWNER SHALL BE BORNE BY THE CONTRACTOR. THIS MAY INCLUDE BUT NOT BE LIMITED TO: NPDES PERMIT (OR NOI), CLEARING OR LAND DISTURBANCE PERMITS, TEMPORARY UTILITIES PERMITS, ETC.
2. UNLESS CLEARLY SPECIFIED OTHERWISE BY THE OWNER IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL NOTICES OF COMMENCEMENTS AND NOTICES OF COMPLETION TO ALL PERMITTING AGENCIES INCLUDING PERMITS SUPPLIED BY THE OWNER.

AS-BUILT SURVEYS

1. UNLESS CLEARLY SPECIFIED OTHERWISE IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL INCLUDE THE COST OF AN AS-BUILT SURVEY IN THE BID PRICE AND SHALL STATE A SEPARATE PRICE FOR AN AS-BUILT SURVEY IN THE BID PRICE. THE AS-BUILT SURVEY SHALL BE SIGNED AND SEALED BY A SURVEYOR LICENSED IN THE STATE OF FLORIDA AND SHALL SHOW THE LOCATION AND ELEVATION OF ALL CONSTRUCTED OR INSTALLED FEATURES .
2. THE AS-BUILT SURVEY SHALL BE SUBMITTED IN DIGITAL AND 22" X 34" PAPER VERSIONS (UP TO 5 COPIES) TO THE ENGINEER FOR APPROVAL. THE AS-BUILT SURVEY SHALL BE PERFORMED IN THE SAME HORIZONTAL AND VERTICAL COORDINATE SYSTEM THE DRAWINGS ARE IN. DIGITAL DRAWINGS SHALL BE IN AUTOCAD 2008 OR NEWER VERSION.

SUBMITTALS AND TESTING REQUIREMENTS

1. ALL TESTING, EITHER PRE-CONSTRUCTION OR CONSTRUCTION, AS REQUIRED HEREIN OR IN THE CONTRACT DOCUMENTS, SHALL BE PERFORMED BY AN INDEPENDENT QUALIFIED TESTING COMPANY. THE COSTS OF ALL SUCH TESTING SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE BID PRICE.
2. THE QUALIFIED TESTING AGENCY SHALL BE APPROVED PER FDOT STANDARDS, AASHTO STANDARDS OR SIMILAR SUCH STANDARDS AS APPROVED BY THE ENGINEER. ALL TESTING WORK SHALL BE DONE UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN FLORIDA AND SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IF REQUESTED.
3. UNLESS MODIFIED BY THE CONTRACT DOCUMENTS, SUBMITTALS AND REQUEST FOR INFORMATION SHALL BE SUBMITTED TO THE ENGINEER IN WRITING IN A FORMAT ACCEPTABLE TO THE ENGINEER AND SHALL BE SUBMITTED A MINIMUM OF 6 WORKING DAYS, PREFERABLY 10 WORKING DAYS, BEFORE ACTION IS REQUIRED.
4. ALL REQUIRED SUBMITTALS OR MANUFACTURER'S INFORMATION SHALL BE IN U.S. CUSTOMARY UNITS.
5. ALL SUBMITTALS REQUIRE APPROVAL BY THE ENGINEER U.N.O..
6. SUBMITTALS SHALL INCLUDE UP TO 7 COPIES AS REQUESTED BY THE ENGINEER UNLESS STATED OTHERWISE BY THE ENGINEER .

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CHECKED
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PROJECT NOTES
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SHEET 2 OF 13

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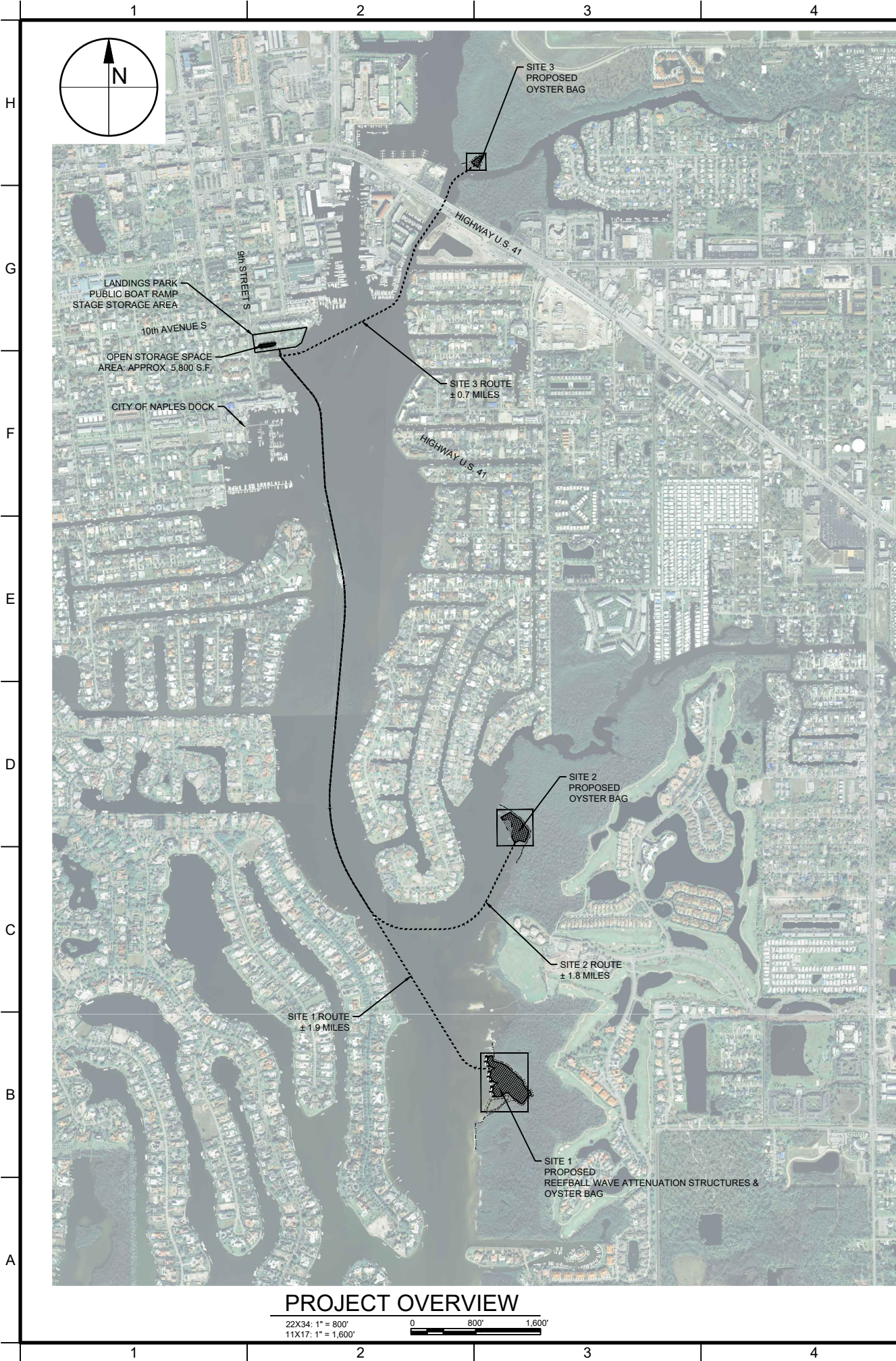
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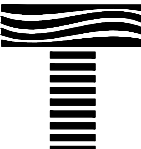
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PROJECT OVERVIEW

PROJECT STAGING AREA NOTES:

1. ADD ANY NEEDED NOTES OR INSTRUCTIONS HERE.
2. PLACEHOLDER TO ADD TEXT



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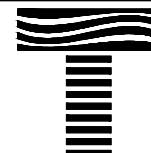
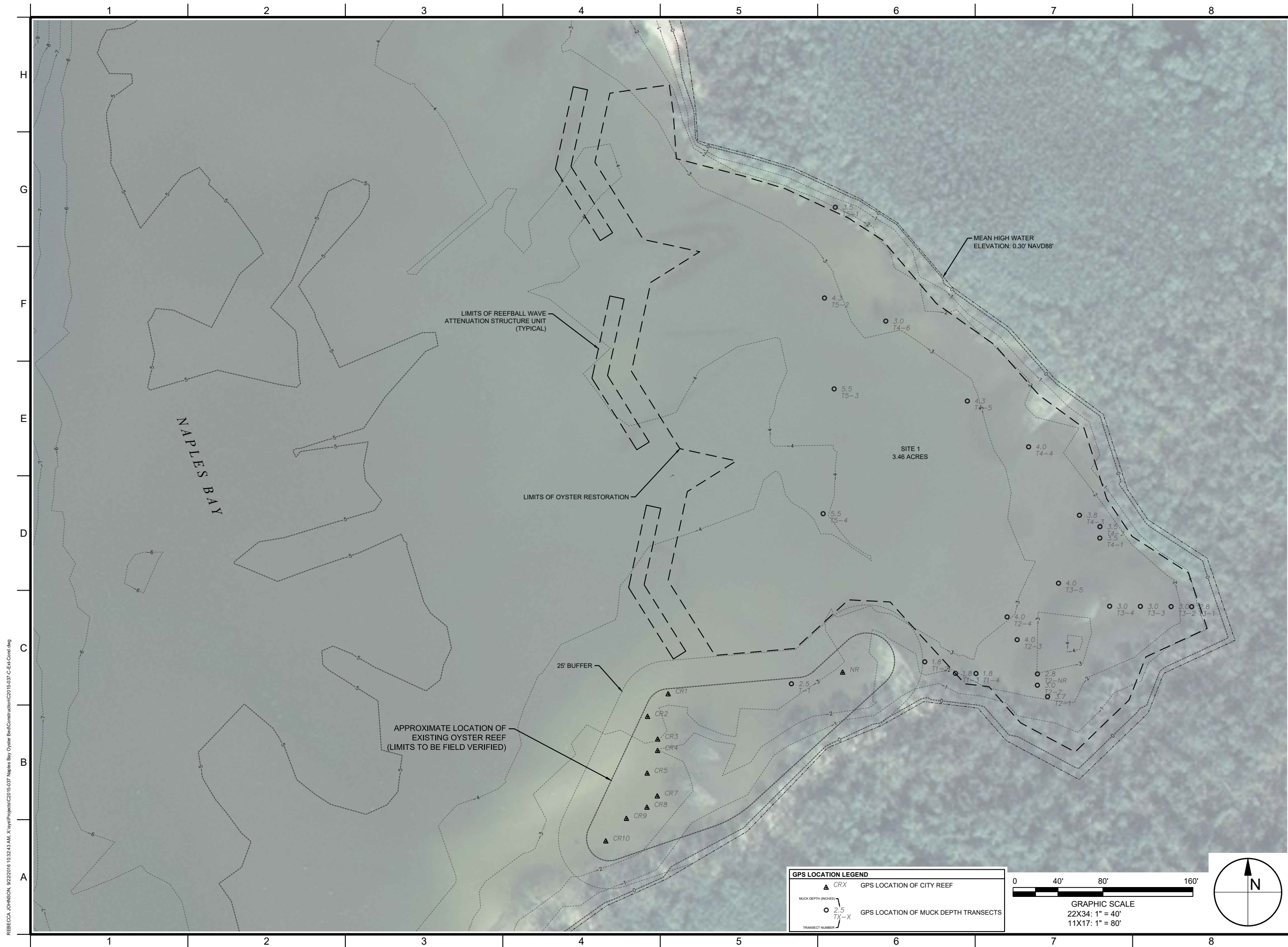


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											REVISIONS / SUBMISSIONS
											NO ZONE

PROJECT NO	C2015-037
DATE	SEPTEMBER 2016
DESIGNED	JP
DRAWN	RLJ
CHECKED	CAS
REVIEWED	CLT
SCALE	AS SHOWN

DRAWING TITLE
PROJECT OVERVIEW &
STAGING AREAS



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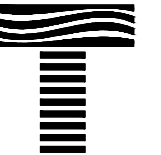
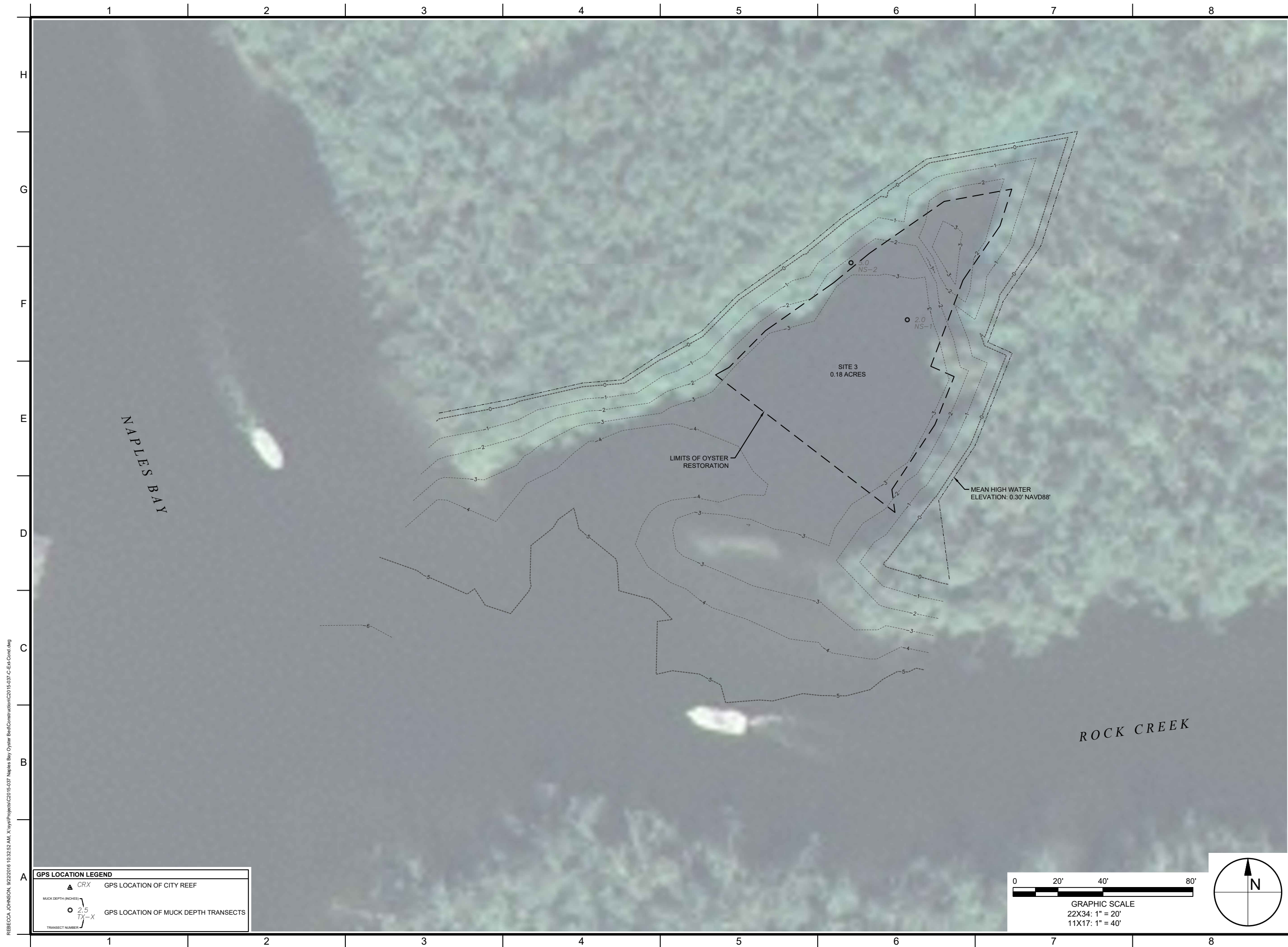
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APPROXIMATE
MUCK DEPTHS
SITE 1

C-4

SHEET 4 OF 13



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JACKSONVILLE, FLORIDA 32256
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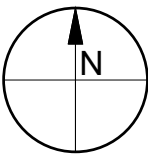
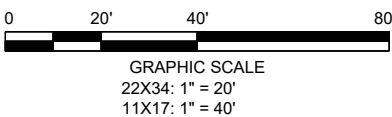
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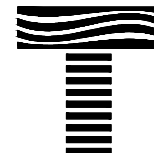
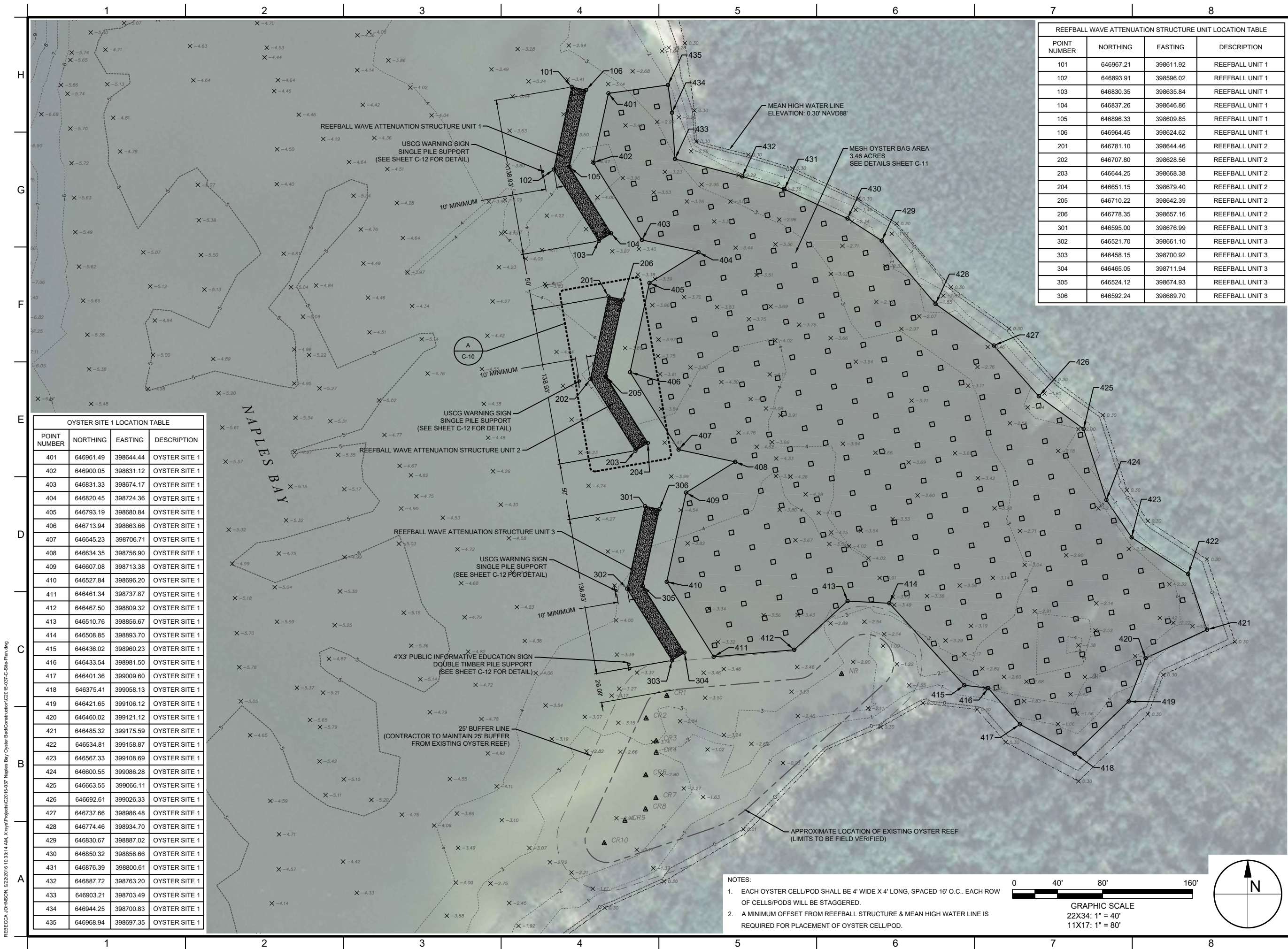
APPROXIMATE
MUCK DEPTHS
SITE 3

C-6

SHEET 6 OF 13

GPS LOCATION LEGEND	
 CRX MUCK DEPTH (INCHES)	GPS LOCATION OF CITY REEF
 2.5 TX-X TRANSECT NUMBER	GPS LOCATION OF MUCK DEPTH TRANSECTS





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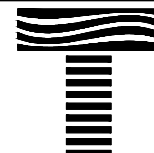
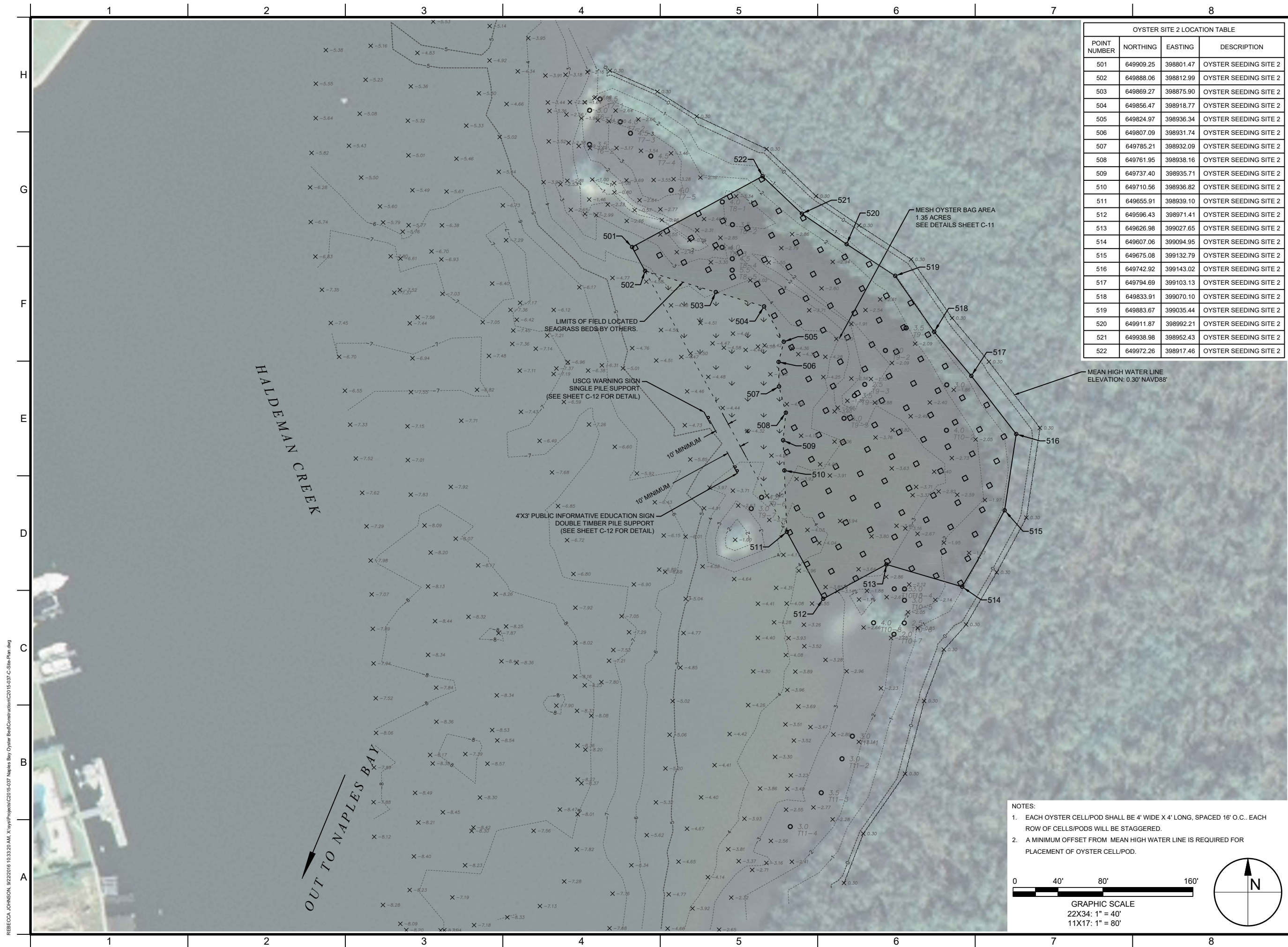
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SITE PLAN SITE 1

C-7

SHEET 7 OF 13

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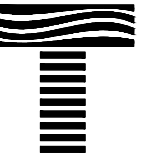
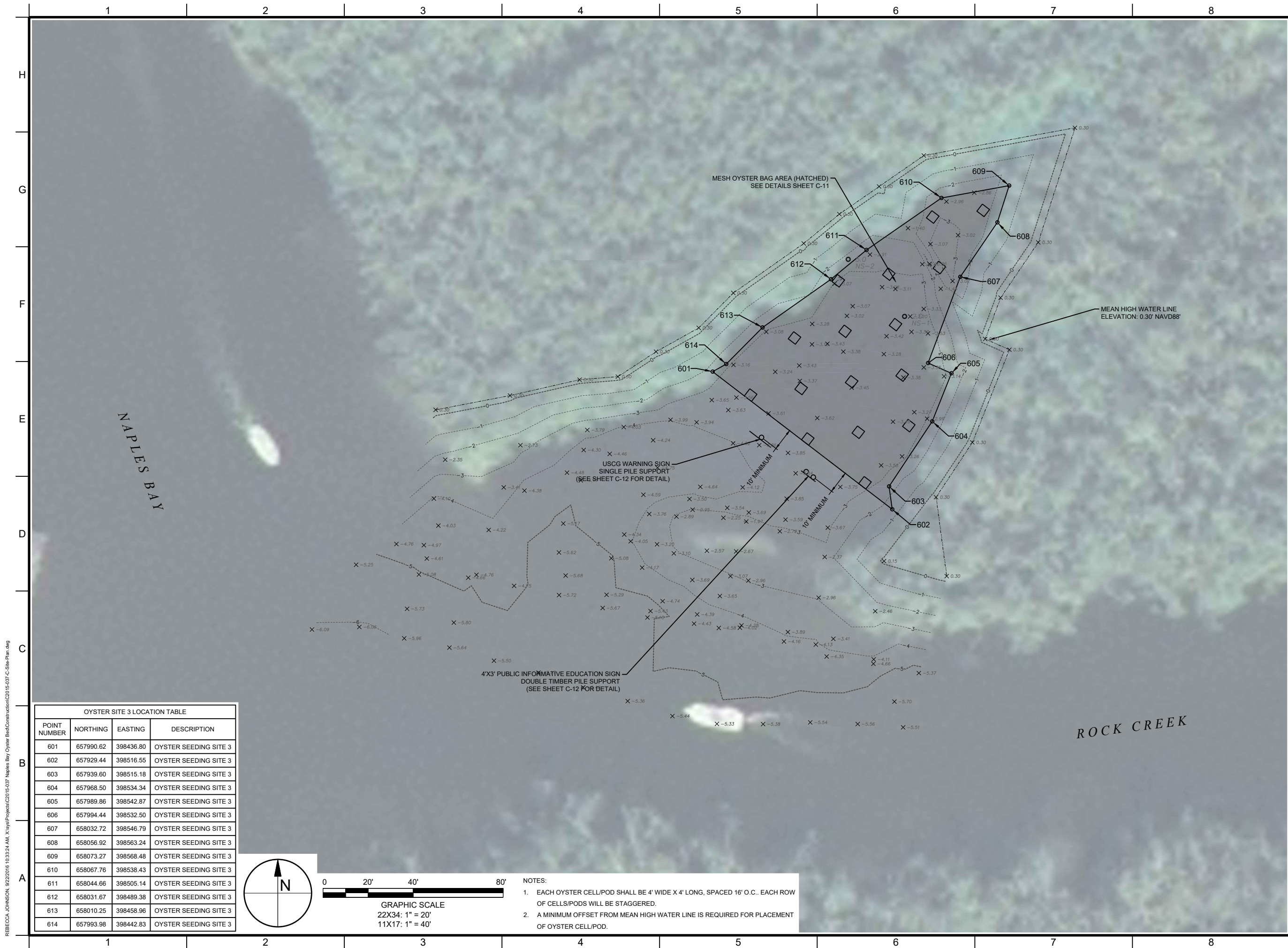
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SITE PLAN SITE 2

C-8

SHEET 8 OF 13



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SITE PLAN SITE 3

C-9

SHEET 9 OF 13

1. ALL SIGNAGE SHALL COMPLY WITH THE CODES, REGULATIONS, AND STANDARDS SET FORTH IN "GUIDELINES FOR POSTING UNIFORM WATERWAY MARKERS IN FLORIDA'S WATERWAYS; LATEST REVISION" PRODUCED BY THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION AND THE UNITED STATES FISH AND WILDLIFE SERVICE. GUIDELINES ARE BASED ON FEDERAL REGISTER TITLE 33, CODE OF FEDERAL REGULATION (CFR), PART 62, 64, & 66.

A. THE PILE SUPPORT FOR THE FLOAT BARRIERS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST MAXIMUM CHANNEL WATER VELOCITIES OF 20 FEET PER SECOND.

B. ALL PILES SHALL CONFORM TO THE REQUIREMENTS OF ASTM D25 WITH MINIMUM BUTT DIAMETERS OF TWELVE (12) INCHES.

C. TREATED PILES SHALL BE CLEAN PEELED AND PRESSURE TREATED IN ACCORDANCE WITH FEDERAL SPECIFICATION TT-W-572B AND AWWA STANDARDS C3 AND P-5, WITH THE MINIMUM NET RETENTION INDICATED FOR SALTWATER USE AND FOR THE TYPE OF WOOD BEING TREATED.

D. PILES SHALL BE LIMITED TO THE USE OF THOSE SPECIES OF MINIMUM NET RETENTION AS SHOWN IN THE TABLES OF FEDERAL SPECIFICATION TT-W-572B.

E. TREATED PILES SHALL BE CAREFULLY HANDLED WITH NO SUDDEN DROPPING, BREAKING OF OUTER FIBERS, BRUISING, OR PENETRATING THE SURFACE WITH TOOLS.

F. CUT OR DAMAGED SURFACES OF PILES, INCLUDING THE TOPS OF ALL PILES AFTER HEADING, AND BOLT HOLES, SHALL BE GIVEN AFTER-TREATMENT CARE AS REQUIRED BY FEDERAL SPECIFICATION TT-W-572B.

G. IN ADDITION TO SUCH "AFTER-HEADING" TREATMENT, THE TOPS OF ALL PILES SHALL BE CAPPED WITH 20 GAUGE ALUMINUM SHEET METAL, FORMED IN THE FIELD WITH NO SHARP OR PROTRUDING EDGES AND FASTENED TO SIDE OF PILE WITH 6d STAINLESS STEEL NAILS AT 2 INCHES O. C. AROUND EDGE TO PROVIDE FOR HEADING.

H. PILES SHALL BE FURNISHED IN LENGTHS AT LEAST ONE FOOT GREATER THAN THE LENGTHS SPECIFIED TO BE BELOW THE CUT-OFF ELEVATIONS.

A. NO PILES SHALL BE DRIVEN UNTIL THE EXCAVATION OR FILL IN THE AREA WHICH THEY ARE TO OCCUPY HAS BEEN COMPLETED TO THE REQUIRED GRADE.

B. THE MAXIMUM PERMISSIBLE DEVIATION FOR PILES OUT OF PLUMB OR OFF BATTER SHALL BE 2 PERCENT OF THE PILE LENGTH.

C. THE MAXIMUM PERMISSIBLE DEVIATION FROM INDICATED LOCATIONS SHALL BE 3 INCHES FOR EACH PILE.

D. PILES SHALL HAVE METAL SHOES WHEN LENSES OR STRATA OF HARD ROCK OCCUR IN THE OVERBURDEN.

E. PUNCHING OR DRILLING HOLES WILL BE PERFORMED WHERE NECESSARY TO PERMIT PILES TO PASS THROUGH THOSE STRATA AND REACH REQUIRED PENETRATION.

F. ALL PILES SHALL BE DRIVEN CONTINUOUSLY AND WITHOUT VOLUNTARY INTERRUPTION UNTIL THE REQUIRED DEPTH OF PENETRATION HAS BEEN ATTAINED WITH A TOLERANCE OF PLUS OR MINUS 1.5 FEET.

G. AFTER DRIVING AND BACK DRIVING, IF REQUIRED, ALL PILES SHALL BE CUT OFF AT THE CUTOFF LINE AND THE SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE OF THE WORK.

H. WATER JETS MAY BE USED IN DRIVING ONLY WHEN SPECIFICALLY AUTHORIZED. 1. AT LEAST TWO JETS SHALL BE USED IN ALL JETTING OPERATIONS. 2. ALL JETTED PILES SHALL BE DRIVEN FOR THE FINAL FIVE (5) FEET OF PENETRATION UNLESS OTHERWISE DIRECTED.

I. PILES THAT ARE DAMAGED, MISLOCATED, OR OUT OF ALIGNMENT SHALL BE WITHDRAWN AND REPLACED BY NEW PILES OR SHALL BE CUT OFF AND ABANDONED AND ADDITIONAL PILES DRIVEN.

A. ALL CABLE SHALL BE MINIMUM 3/4 INCH DIAMETER, STAINLESS STEEL WIRE CABLE. CABLE CLAMPS AND FASTENERS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST MAXIMUM CHANNEL WATER VELOCITIES OF 20 FEET PER SECOND.

B. THE CABLE LENGTH SHALL PROVIDE ADEQUATE SLACK TO ADDRESS THE VARIATION OF WATER STAGE.

C. CABLE CLAMPS SHALL BE SUPPLIED AS PER MANUFACTURER'S RECOMMENDATIONS.

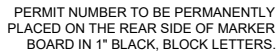
D. THIMBLES, WIRE ROPE CLAMPS, FASTENERS, AND ACCESSORIES SHALL BE STAINLESS STEEL OF A TYPE AND GRADE AT LEAST EQUAL IN STRENGTH TO THE MINIMUM BREAKING STRENGTH OF THE WIRE ROPE.

E. EYE-BOLTS SHALL BE WELDLESS STAINLESS STEEL.

B. ALUMINUM MATERIAL SHALL CONFORM TO ALUMINUM ASSOCIATION ALLOY 5052 AND ALSO ASTM B209 FOR SHEETS AND PLATES, AND ASTM B221 FOR EXTRUDED SHAPES. ALUMINUM SHEETS AND PLATES SHALL HAVE ROUNDED OR BEVELED EDGES AND ROUNDED CORNERS.

A. SIGN PANEL SHALL BE MARINE GRADE ALUMINUM NO. 5052, WITH WHITE BACKGROUND AND BLACK LETTERS CONFORMING TO FEDERAL STANDARD ALPHABET SERIES E. THE PANEL, LETTERING DESIGN AND ENAMELING SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

B. THE CONTRACTOR SHALL SUBMIT LETTERING DESIGN TO THE ENGINEER FOR APPROVAL.



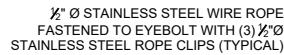
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90% SUBMITTAL
PERMIT APPLICATION
PURPOSES ONLY
NOT FOR
CONSTRUCTION

PROJECT TITLE

**NAPLES BAY
OYSTER RESTORATION
CONSTRUCTION DRAWINGS**
CITY OF NAPLES, COLLIER COUNTY,
FLORIDA

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PRELIMINARY DRAWINGS: THESE DRAWINGS
ARE NOT IN FINAL FORM, BUT ARE BEING
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REVISIONS / SUBMISSIONS	DATE
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DRAWING TITLE

C-12

SHEET 12 OF 13

