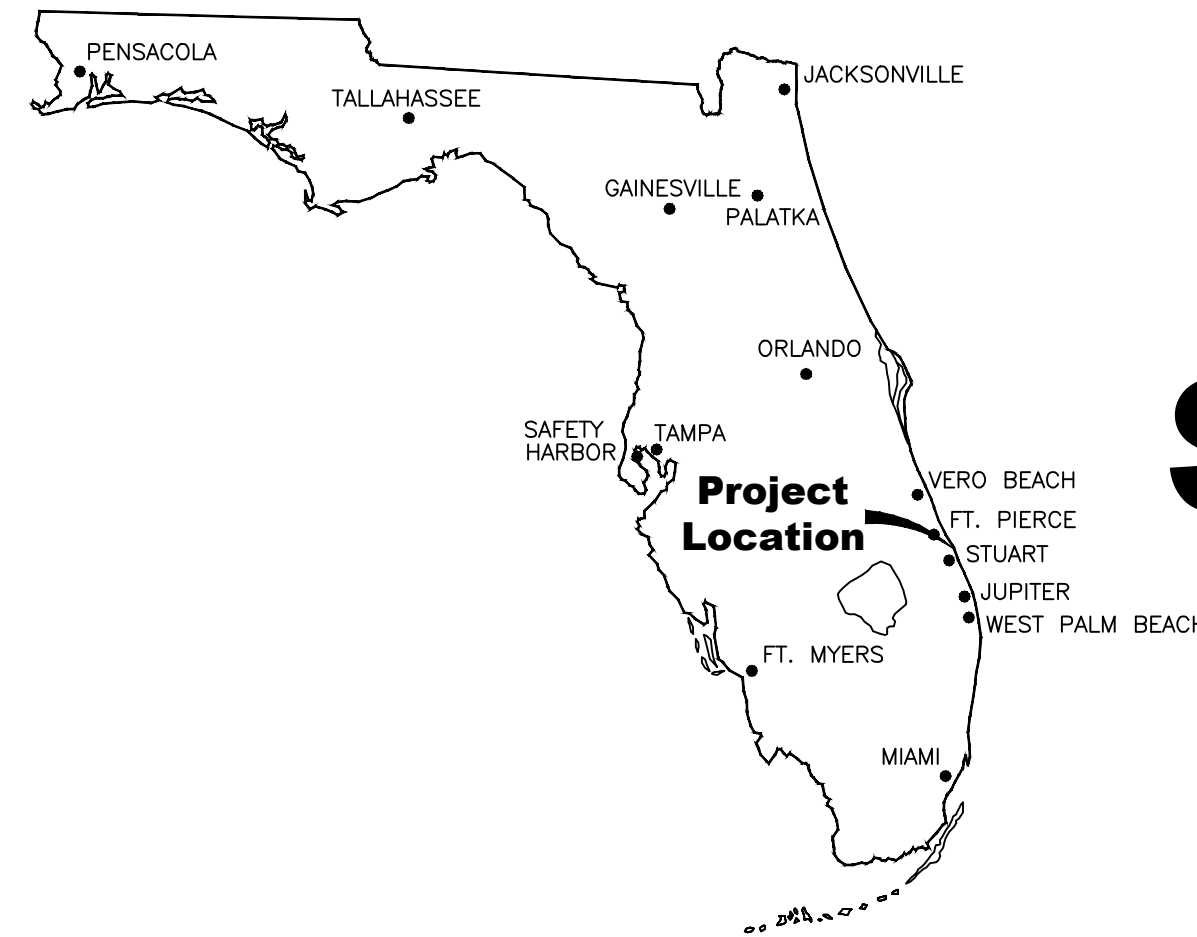


Construction Plans and Specifications Of **TUCKAHOE MANSION SEAWALL REPLACEMENT PROJECT** For **MARTIN COUNTY, FL** Lying In **Sections 37, Township 37 S. , Range 41 E. MARTIN COUNTY, FL**



TUCKAHOE MANSION SEAWALL REPLACEMENT PROJECT
Project No. 1743.8



Location Map

NOTES:
THESE PLANS ARE IN ENGLISH UNITS
ALL ELEVATIONS HEREIN REFERENCE N.A.V.D.
1988 DATUM. ADD 1.48 FEET TO CONVERT TO
N.G.V.D. 1929 DATUM. ALL CONSTRUCTION IS TO
BE IN ACCORDANCE WITH FLORIDA DEPARTMENT
OF TRANSPORTATION STANDARDS AND
SPECIFICATIONS.

BOARD OF COUNTY COMMISSIONERS

DOUG SMITH
STACEY HETHERINGTON
HAROLD JENKINS
SARAH HEARD
ED CIAMPI

DISTRICT 1
DISTRICT 2
DISTRICT 3
DISTRICT 4
DISTRICT 5

ENGINEER

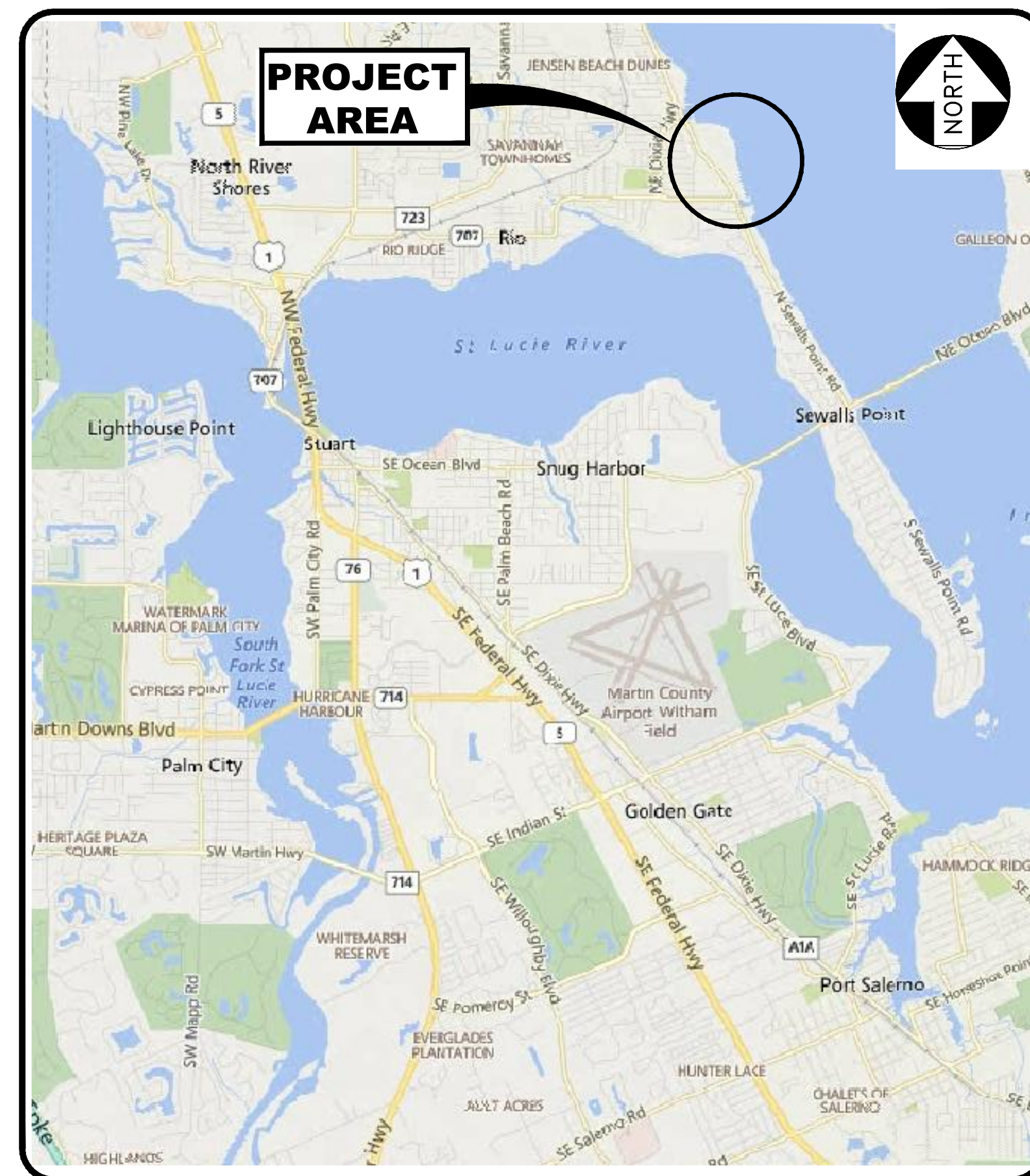
MR. JOSEPH W. CAPRA, PE
CAPTEC ENGINEERING, INC.
301 N.W. FLAGLER AVENUE
STUART, FLORIDA 34994
PHONE: (772)-692-4344
FAX: (772)-692-4341



Civil Engineering Professionals

301 N.W. Flagler Avenue
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341

Engineering Business
No. EB-0007657



Vicinity Map

N.T.S.



Site Map

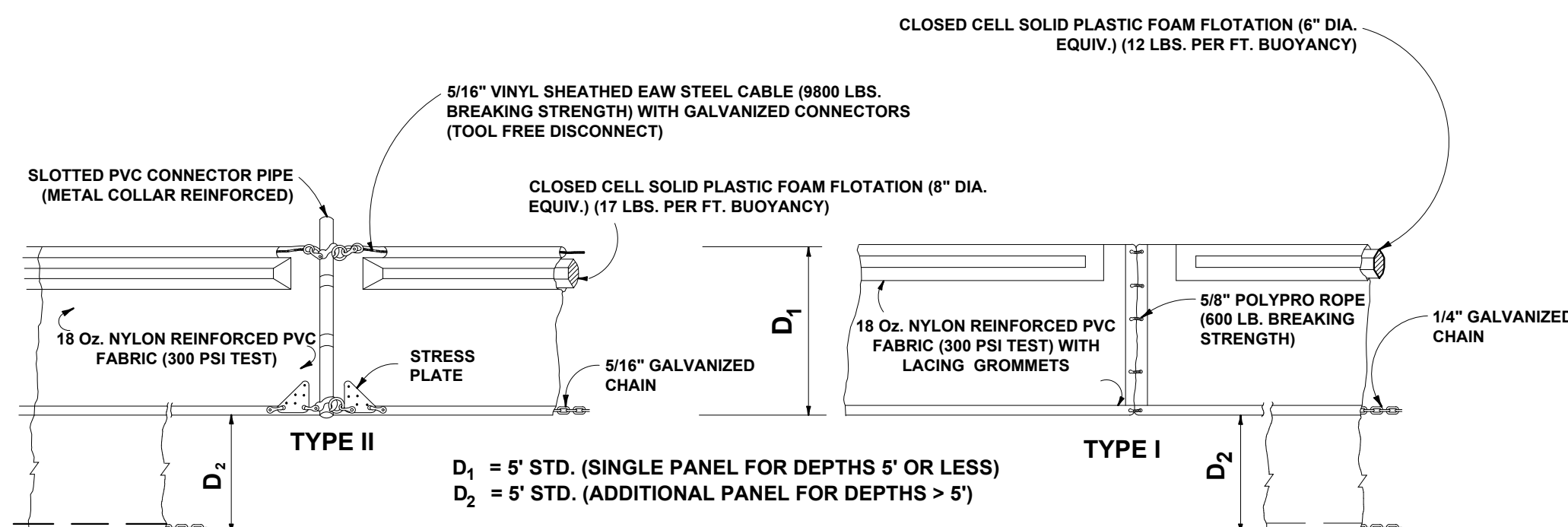
N.T.S.

SHEET INDEX

SHEET NUMBER	SHEET TITLE/DESCRIPTION
1	COVER SHEET
2	EROSION CONTROL AND DEMOLITION PLAN
3	PLAN VIEW
4	SECTIONS & DETAILS
5	GENERAL NOTES
6	DETAILS
S-1	BULKHEAD PLAN
S-2	BULKHEAD PLAN SECTIONS

**BID SET
REV 09/04/20**

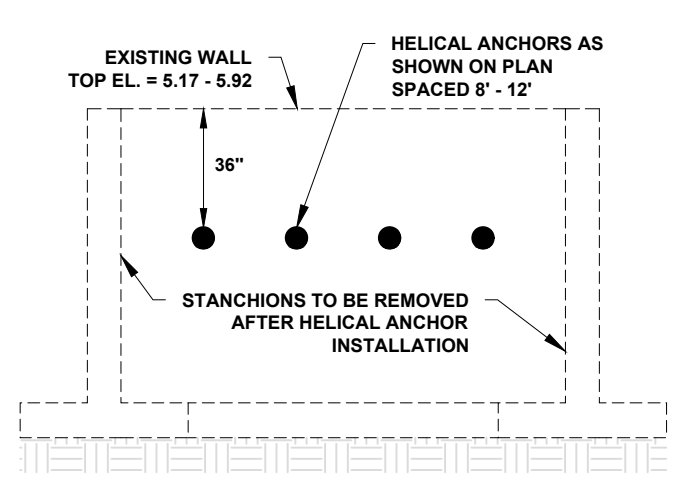




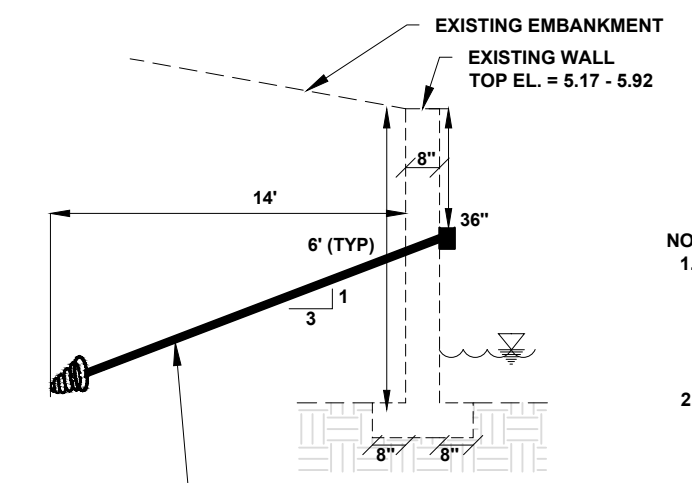
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS
N.T.S.



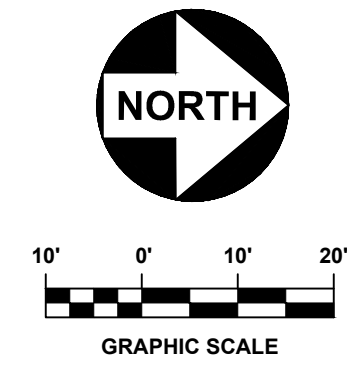
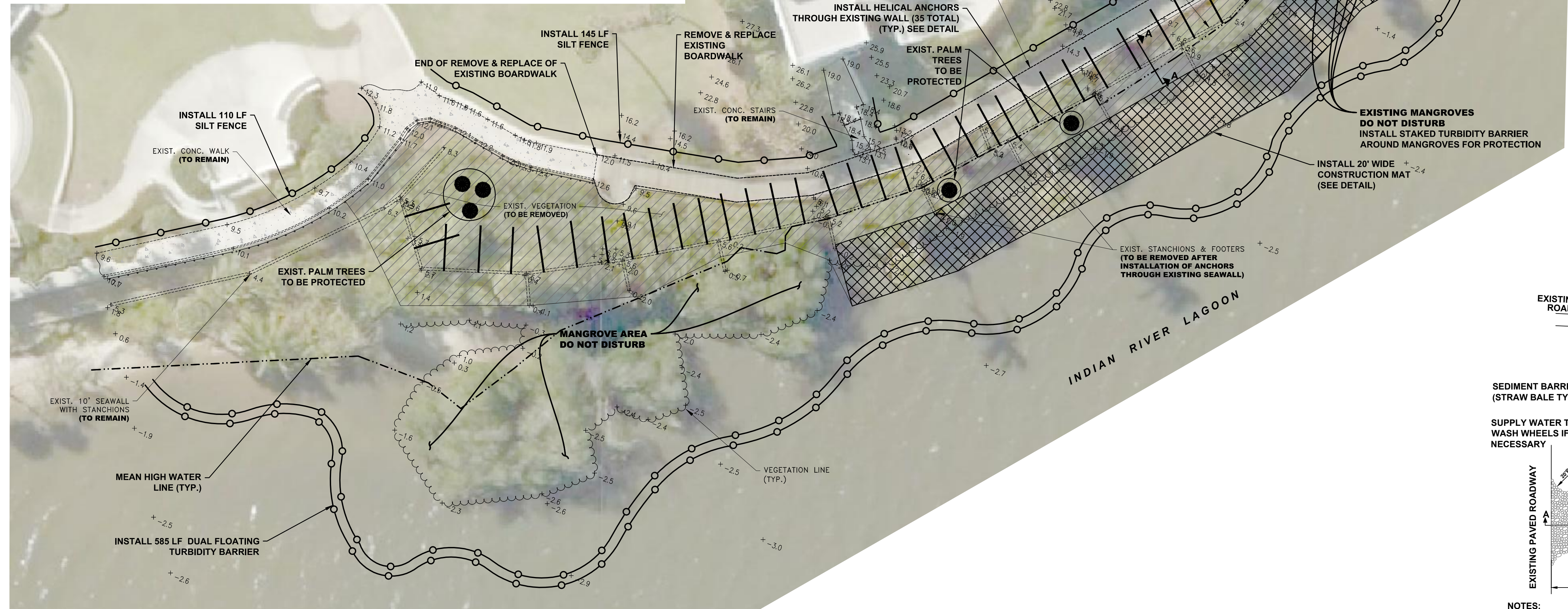
EXISTING SEAWALL DETAIL
N.T.S.



EXISTING SEAWALL SECTION A-A
N.T.S.

NOTE:
1. EXISTING WALL SECTION MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION. PORTIONS OF THE EXISTING WALL ARE IN POOR CONDITION, OR CRACKED, AND MAY HAVE SHIFTED OR MAY BE SLOPED.
2. HORIZONTAL WALLERS 4' LONG TO BE INCLUDED IN HELICAL ANCHOR CONTRACT.

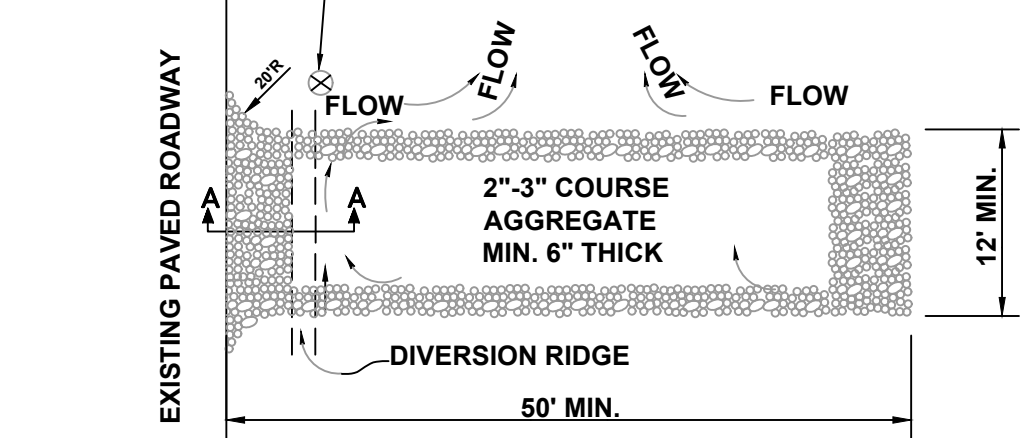
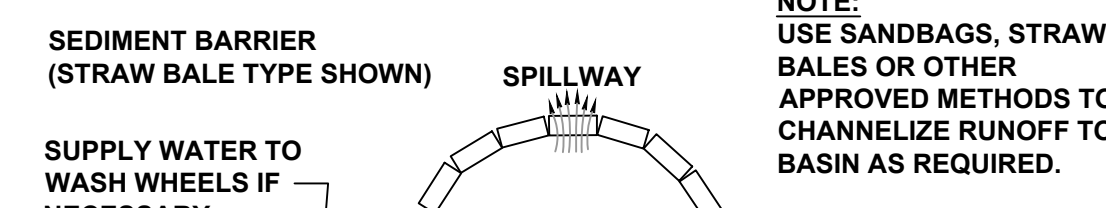
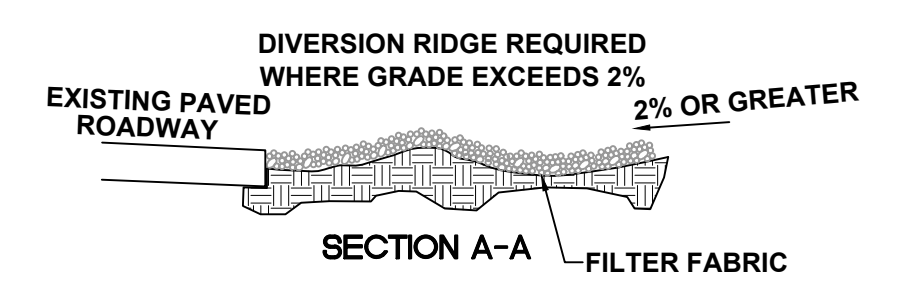
THE MANSION AT TUCKAHOE



- LEGEND**
- EXISTING SIDEWALK
 - EXISTING BOARDWALK
 - EXISTING CONC. SEAWALL
 - EXISTING VEGETATION LINE
 - EXISTING MEAN HIGH WATER LINE
 - PROPOSED SILT FENCE
 - PROPOSED TURBIDITY BARRIER
 - PROPOSED STABILIZED CONST. ACCESS
 - PROPOSED CONST. MAT
 - AREA TO BE CLEARED

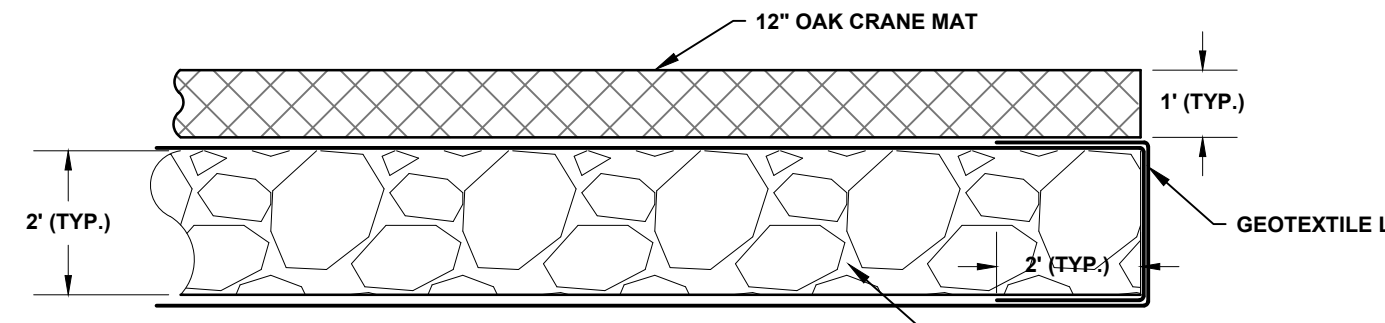
- SEQUENCING NOTES:**
- CONTRACTOR TO LOCATE ALL MANGROVES WITHIN THE PROJECT AREA BEFORE CONSTRUCTION.
 - EXISTING MANGROVES SHALL NOT BE IMPACTED. STAKED TURBIDITY BARRIERS SHOULD BE INSTALLED AROUND MANGROVES FOR PROTECTION.
 - CONTRACTOR TO CLEAR ALL NON-MANGROVE VEGETATION WITHIN PROJECT AREA.
 - INSTALL EROSION CONTROL AS SHOWN AND CLOSE BOARDWALK / SIDEWALK WITHIN PROJECT AREA.
 - REMOVE EXISTING BOARDWALK PLANKS AND PILES.
 - INSTALL CONSTRUCTION ACCESS MAT FOR WATER-SIDE ACCESS TO SEAWALL.
 - VERIFY THICKNESS & SLOPE (IF ANY) OF EXISTING WALL AND EXISTING FOOTERS.
 - INSTALL HELICAL ANCHORS IN EXISTING SEAWALL.
 - REMOVE EXISTING STANCHIONS AS NEEDED TO CONSTRUCT NEW WALL.

- TREE PROTECTION, TREE RELOCATION/PRESERVATION & TREE REPLANTING NOTES**
- ALL PALM TREES (SABAL, COCONUT, ETC.) LOCATED WITHIN THE AREA OF DISTURBANCE ARE TO BE PROTECTED IN PLACE.
 - ONLY PALM TREES IN DIRECT CONFLICT WITH CONSTRUCTION ACTIVITIES MAY BE TEMPORARILY RELOCATED. CONTRACTOR TO NOTIFY COUNTY OF THESE TREES PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
 - PALM TREES DEEMED NECESSARY FOR TEMPORARY RELOCATION MUST BE REPLANTED BACK TO THEIR ORIGINAL LOCATIONS PRIOR TO PROJECT COMPLETION.



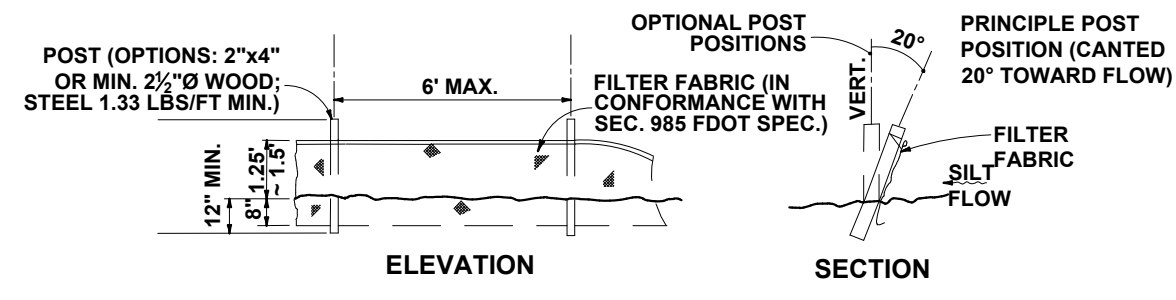
STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

- NOTES:**
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT BASIN.



CONSTRUCTION MAT
N.T.S.

- CONSTRUCTION MAT NOTES:**
- CONSTRUCTION MAT TO CONSIST OF 1" OAK CRANE MAT WITH 2" (MIN.) OF ROCK MATERIAL UNDER THE MAT.
 - ROCK WILL BE 1' TO 2' IN DIAMETER, WITH SMALLER ROCK MATERIAL PLACED TO LEVEL THE SURFACE FOR PLACEMENT OF THE CRANE MAT.
 - ROCK TO BE PLACED ON EXISTING GRADE AND BUILT TO KEEP MAT OUT OF WATER DURING HIGH TIDE DURING CONSTRUCTION.
 - ROCK SHALL BE PLACED ON GEOTEXTILE LINER AND SHALL BE WRAPPED IN SAME LINER WITH 2" (MIN) OVERLAP TO PREVENT ROCK FROM WASHING INTO RIVER.
 - UPON COMPLETION OF CONSTRUCTION, ALL ROCK, GEOTEXTILE AND CRANE MATS SHALL BE REMOVED AND CONSTRUCTION ACCESS AREA SHALL BE RESTORED TO ITS ORIGINAL CONDITION. LARGER ROCK (1' TO 2' DIAMETER) SHALL BE PLACED AGAINST SEAWALL FOR USE AS RIP RAP WHERE POSSIBLE.



TYPE III SILT FENCE
N.T.S.

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Phone: (772) 692-4344
Fax: (772) 692-4341

CAPTEC
Engineering, Inc.
Civil Engineering Professionals

Engineering Business
No. EB-007657

DATE:	9/4/20
DRAWN BY:	TJS
DESIGNED BY:	TJA
CHECKED BY:	JWC
PROJECT NO.:	1745.B
HORIZ. SCALE:	1" = 20'
VERT. SCALE:	N/A
CADD FILE:	1745.B (PROJECT).DWG

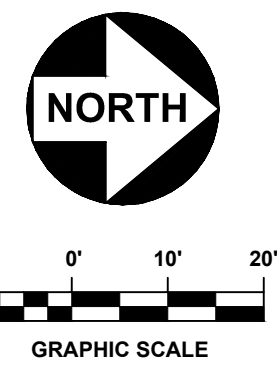
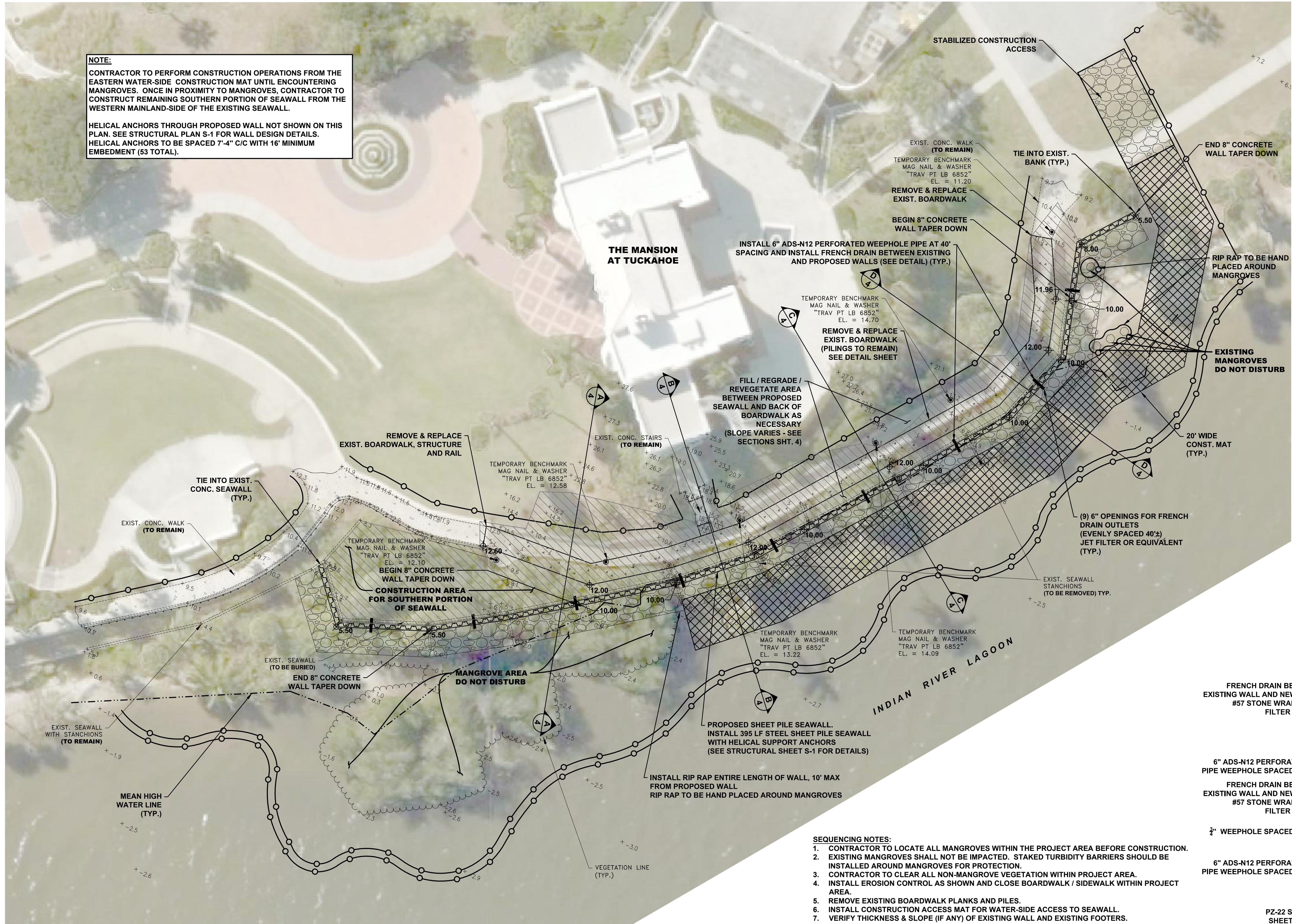
NO.	DATE	BY	REVISIONS

TUCKAHOE MANSION PROJECT
SEAWALL REPLACEMENT PROJECT
MARTIN COUNTY, FL

EROSION CONTROL AND DEMOLITION PLAN

JOSEPH W. CAPRA, PE
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

NOTE:
 CONTRACTOR TO PERFORM CONSTRUCTION OPERATIONS FROM THE EASTERN WATER-SIDE CONSTRUCTION MAT UNTIL ENCOUNTERING MANGROVES. ONCE IN PROXIMITY TO MANGROVES, CONTRACTOR TO CONSTRUCT REMAINING SOUTHERN PORTION OF SEAWALL FROM THE WESTERN MAINLAND-SIDE OF THE EXISTING SEAWALL.
 HELICAL ANCHORS THROUGH PROPOSED WALL NOT SHOWN ON THIS PLAN. SEE STRUCTURAL PLAN S-1 FOR WALL DESIGN DETAILS.
 HELICAL ANCHORS TO BE SPACED 7'-4" C/C WITH 16" MINIMUM EMBEDMENT (53 TOTAL).



LEGEND

- EXISTING SIDEWALK
- EXISTING BOARDWALK
- EXISTING CONC. SEAWALL
- EXISTING VEGETATION LINE
- EXISTING MEAN HIGH WATER LINE
- PROPOSED SILT FENCE
- PROPOSED TURBIDITY BARRIER
- PROPOSED SEAWALL
- PROPOSED CONST. ACCESS
- PROPOSED CONST. MAT
- PROPOSED SIDEWALK
- PROPOSED FILL

CAPTEC
 Engineering, Inc.
 Civil Engineering Professionals

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 Fax: (772) 692-4341

Engineering Business
 No. EB-007657

DATE: 04/20
 DRAWN BY: TJS
 DESIGNED BY: TLA
 CHECKED BY: JWC
 PROJECT NO.: 1743.8
 HORZ. SCALE: 1" = 20'
 VERT. SCALE: N/A
 CADD FILE: 1743.PLAN.BRIEFS

NO.	DATE	BY	REVISIONS
1	04/23/19	JWC	60% PLANS
2	08/06/19	JWC	FDEP COMMENTS
3	01/14/20	JWC	BID SET

SCALE VERIFICATION

1
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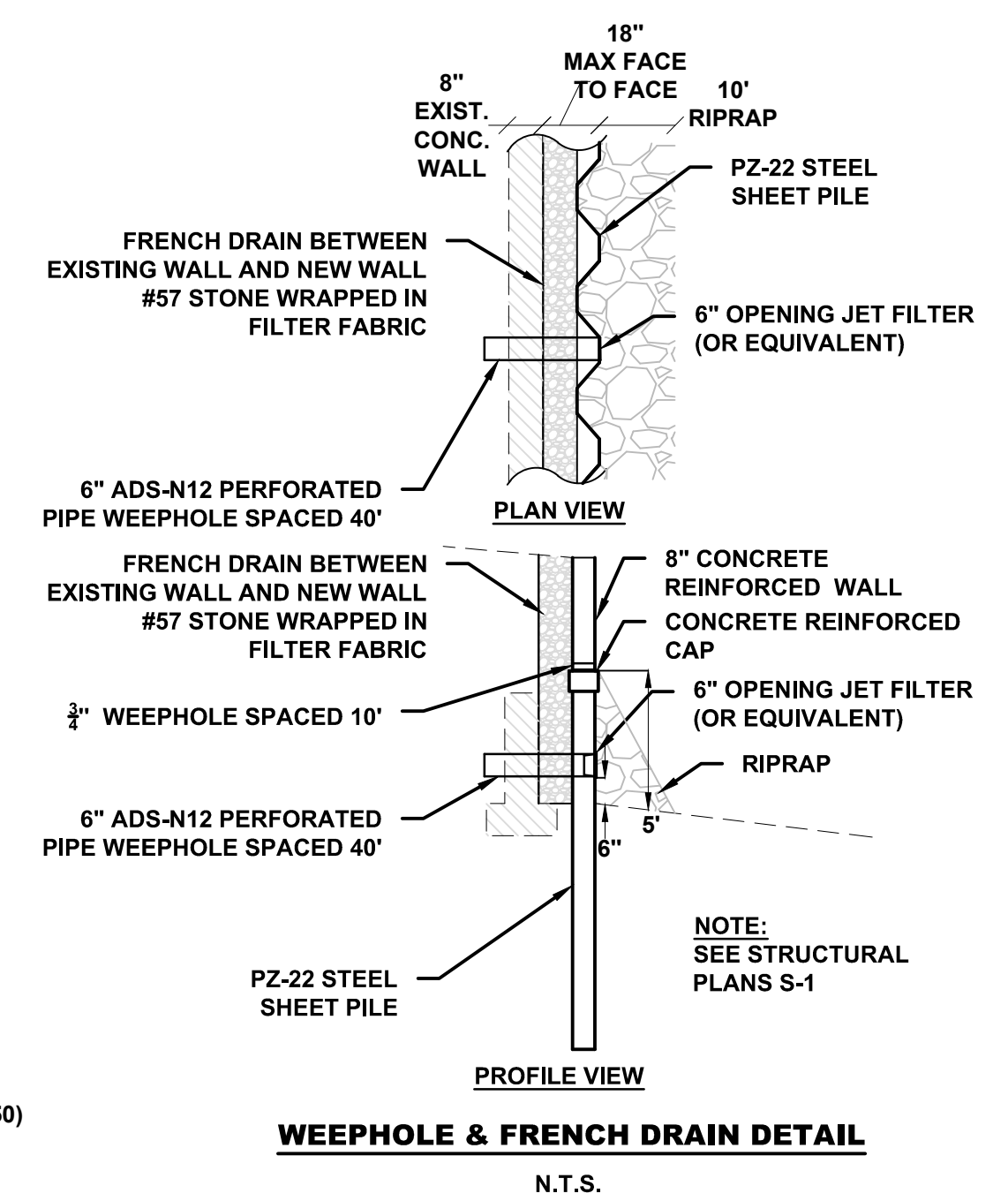
SOLID BAR IS EQUAL ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY.

TUCKAHOE MANSION SEAWALL REPLACEMENT PROJECT
 MARTIN COUNTY, FL

PLAN VIEW

JOSEPH W. CAPRA, PE
 301 N.W. Flagler Ave.
 Stuart, Florida 34994
 P.E. No. 37638

- SEQUENCING NOTES:**
- CONTRACTOR TO LOCATE ALL MANGROVES WITHIN THE PROJECT AREA BEFORE CONSTRUCTION.
 - EXISTING MANGROVES SHALL NOT BE IMPACTED. STAKED TURBIDITY BARRIERS SHOULD BE INSTALLED AROUND MANGROVES FOR PROTECTION.
 - CONTRACTOR TO CLEAR ALL NON-MANGROVE VEGETATION WITHIN PROJECT AREA.
 - INSTALL EROSION CONTROL AS SHOWN AND CLOSE BOARDWALK / SIDEWALK WITHIN PROJECT AREA.
 - REMOVE EXISTING BOARDWALK PLANKS AND PILES.
 - INSTALL CONSTRUCTION ACCESS MAT FOR WATER-SIDE ACCESS TO SEAWALL.
 - VERIFY THICKNESS & SLOPE (IF ANY) OF EXISTING WALL AND EXISTING FOOTERS.
 - INSTALL HELICAL ANCHORS IN EXISTING SEAWALL.
 - REMOVE EXISTING STANCHIONS AS NEEDED TO CONSTRUCT NEW WALL.
 - INSTALL PROPOSED STEEL SHEET PILE SEAWALL AND HELICAL ANCHORS / RIP-RAP (FACE OF PROPOSED SHEET PILE = 18" (MAX) FROM OUTER FACE OF EXISTING SEAWALL (EXIST. TOP EL = 5.50)
 - INSTALL FRENCH DRAIN SYSTEM BETWEEN EXISTING AND PROPOSED SEAWALL.
 - BACKFILL AND REGRADE AREA BETWEEN PROPOSED SEAWALL AND BACK OF BOARDWALK AT A CONSTANT SLOPE (VARIES) - BURY EXISTING SEAWALL.
 - CONSTRUCT PROPOSED SIDEWALK AND RAILING.
 - FILL / GRADE AND COMPACT / REVEGETATE ALL DISTURBED AREA AND REMOVE CONSTRUCTION MAT.



STANDARD MANATEE CONDITIONS FOR IN-WATER WORK
2011

THE PERMITTEE SHALL COMPLY WITH THE FOLLOWING CONDITIONS INTENDED TO PROTECT MANATEES FROM DIRECT PROJECT EFFECTS:

- ALL PERSONNEL ASSOCIATED WITH THE PROJECT SHALL BE INSTRUCTED ABOUT THE PRESENCE OF MANATEES AND MANATEE SPEED ZONES, AND THE NEED TO AVOID COLLISIONS WITH AND INJURY TO MANATEES. THE PERMITTEE SHALL ADVISE ALL CONSTRUCTION PERSONNEL THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARMING, HARASSING, OR KILLING MANATEES WHICH ARE PROTECTED UNDER THE MARINE MAMMAL PROTECTION ACT, THE ENDANGERED SPECIES ACT, AND THE FLORIDA MANATEE SANCTUARY ACT.
- ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION PROJECT SHALL OPERATE AT "IDLE SPEED/NO WAKE" AT ALL TIMES WHILE IN THE IMMEDIATE AREA AND WHILE IN WATER WHERE THE DRAFT OF THE VESSEL PROVIDES LESS THAN A FOUR-FOOT CLEARANCE FROM THE BOTTOM. ALL VESSELS WILL FOLLOW ROUTES OF DEEP WATER WHENEVER POSSIBLE.
- SILTATION OR TURBIDITY BARRIERS SHALL BE MADE OF MATERIAL IN WHICH MANATEES CANNOT BECOME ENTANGLED. SHALL BE PROPERLY SECURED, AND SHALL BE REGULARLY MONITORED TO AVOID MANATEE ENTANGLEMENT OR ENTRAPMENT. BARRIERS MUST NOT IMPEDE MANATEE MOVEMENT.
- ALL ON-SITE PROJECT PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATER-RELATED ACTIVITIES FOR THE PRESENCE OF MANATEE(S). ALL IN-WATER OPERATIONS, INCLUDING VESSELS, MUST BE SHUTDOWN IF A MANATEE(S) COMES WITHIN 50 FEET OF THE OPERATION. ACTIVITIES WILL NOT RESUME UNTIL THE MANATEE(S) HAS MOVED BEYOND THE 50-FOOT RADIUS OF THE PROJECT OPERATION, OR UNTIL 30 MINUTES ELAPSES IF THE MANATEE(S) HAS NOT REAPPEARED WITHIN 50 FEET OF THE OPERATION. ANIMALS MUST NOT BE HERDED AWAY OR HARASSED INTO LEAVING.
- ANY COLLISION WITH OR INJURY TO A MANATEE SHALL BE REPORTED IMMEDIATELY TO THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) HOTLINE AT 1-888-404-3922. COLLISION AND/OR INJURY SHOULD ALSO BE REPORTED TO THE U.S. FISH AND WILDLIFE SERVICE IN JACKSONVILLE (1-904-731-3336) FOR NORTH FLORIDA OR IN VERO BEACH (1-772-562-3909) FOR SOUTH FLORIDA, AND EMAILED TO FWC AT ImperiledSpecies@myfwc.com.
- TEMPORARY SIGNS CONCERNING MANATEES SHALL BE POSTED PRIOR TO AND DURING ALL IN-WATER PROJECT ACTIVITIES. ALL SIGNS ARE TO BE REMOVED BY THE PERMITTEE UPON COMPLETION OF THE PROJECT. TEMPORARY SIGNS THAT HAVE ALREADY BEEN APPROVED FOR THIS USE BY THE FWC MUST BE USED. ONE SIGN WHICH READS CAUTION: BOATERS MUST BE POSTED. A SECOND SIGN MEASURING AT LEAST 8 1/2" BY 11" EXPLAINING THE REQUIREMENTS FOR "IDLE SPEED/NO WAKE" AND THE SHUT DOWN OF IN-WATER OPERATIONS MUST BE POSTED IN A LOCATION PROMINENTLY VISIBLE TO ALL PERSONNEL ENGAGED IN WATER-RELATED ACTIVITIES. THESE SIGNS CAN BE VIEWED AT:
http://www.myfwc.com/WILDLIFEHABITATS/manatee_sign_vendors.html

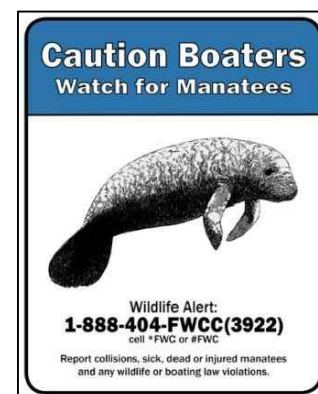
QUESTIONS CONCERNING THESE SIGNS CAN BE FORWARDED TO THE EMAIL ADDRESS LISTED ABOVE.

MANATEE INFORMATION SIGN



30" TALL X 36" WIDE (ROUNDED CORNERS WITH RADIUS 1 1/2")

THIS MANATEE EDUCATIONAL SIGN REPLACES THE "MANATEE BASICS FOR BOATERS" SIGN.



30" TALL X 24" WIDE (ROUNDED CORNERS WITH RADIUS 1 1/2")

THIS AWARENESS SIGN REPLACES THE "CAUTION: MANATEE AREA" SIGN. IT IS INTENDED TO REMIND FACILITY PATRONS OF MANATEES BEFORE GOING OUT ON THE WATER. THESE SIGNS ARE ALSO FREQUENTLY USED AS TEMPORARY SIGNS FOR CONSTRUCTION PURPOSES.

SIGN GUIDELINES

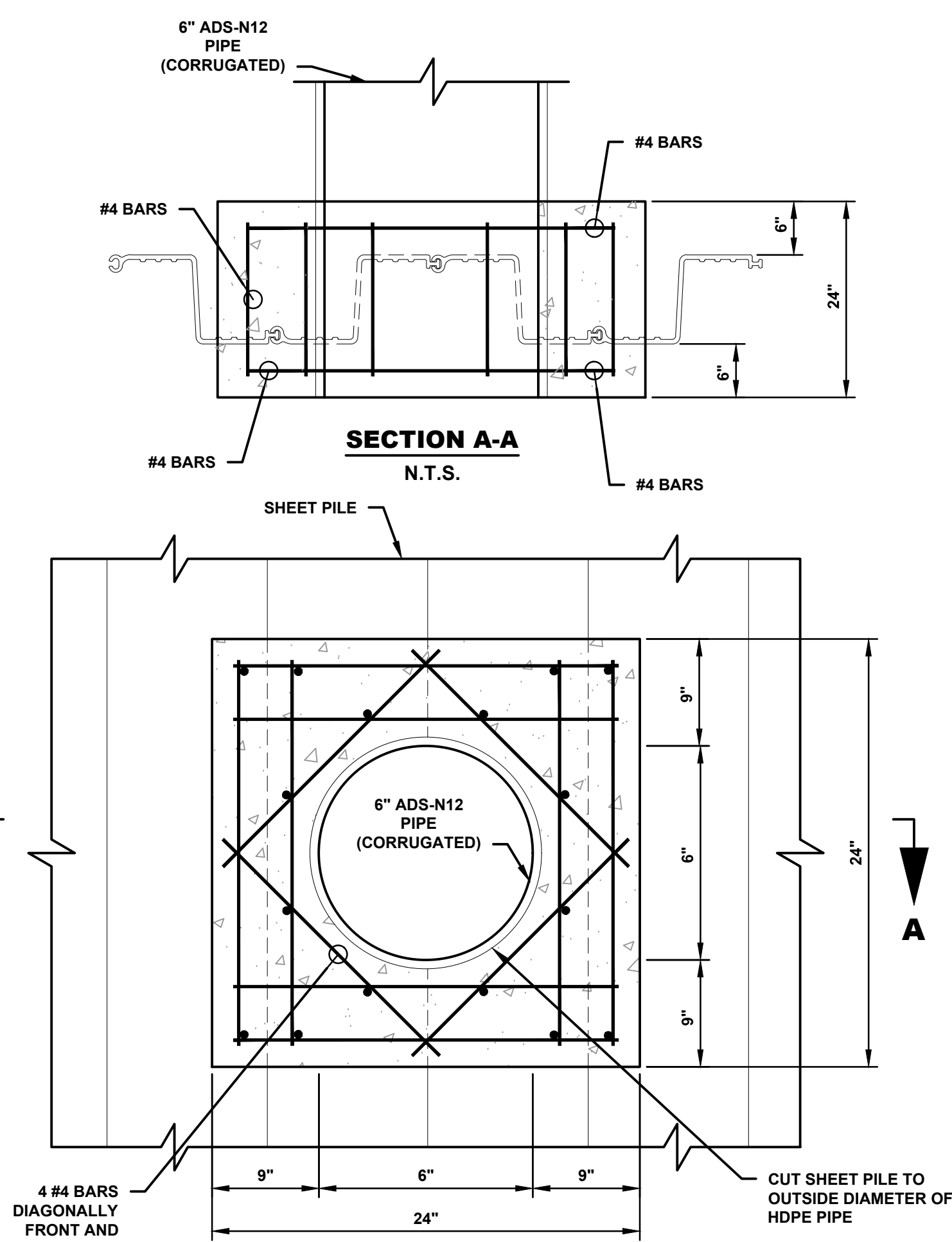
SIGNS MUST BE PLACED IN A PROMINENT LOCATION FOR MAXIMUM VISIBILITY. AREAS THAT ARE RECOMMENDED INCLUDE: DOCK WALKWAYS, DOCK MASTER OFFICES, NEAR RESTROOMS OR OTHER HIGH PATRON FOOT TRAFFIC AREAS. THEY MUST BE REPLACED WHEN FADED, DAMAGED OR OUTDATED.

■ IF THE FACILITY IS LARGE OR HAS MULTIPLE DOCKS WITH SEPARATE WALKWAYS THAT ARE A CONSIDERABLE DISTANCE APART, MULTIPLE SIGNS SHOULD BE INSTALLED.

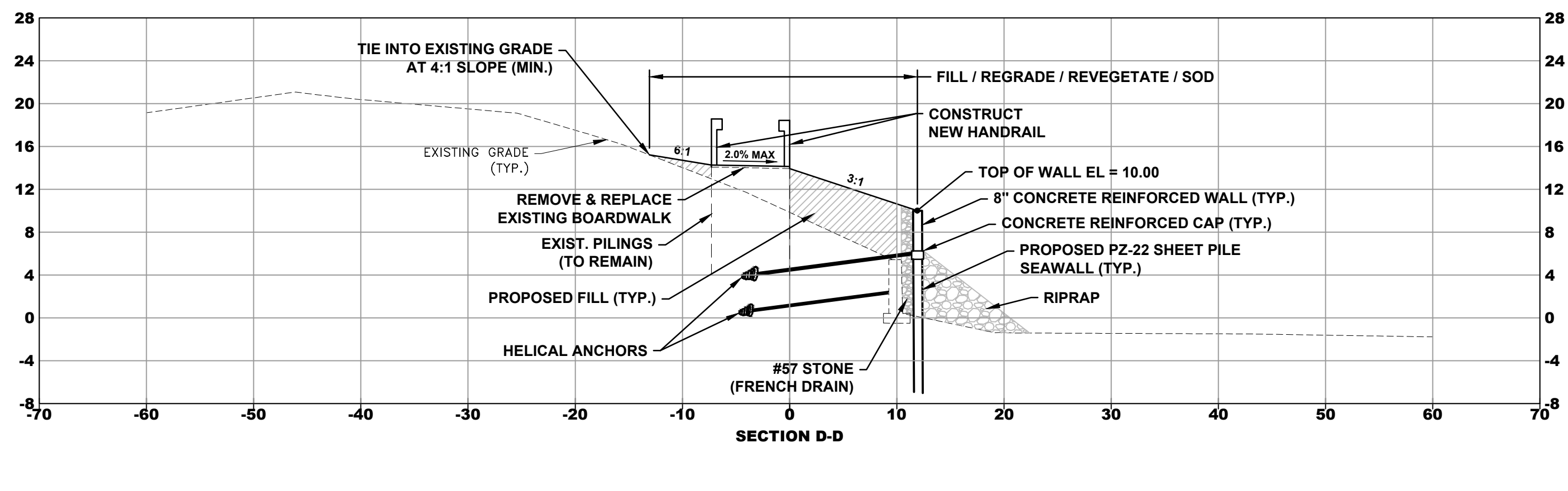
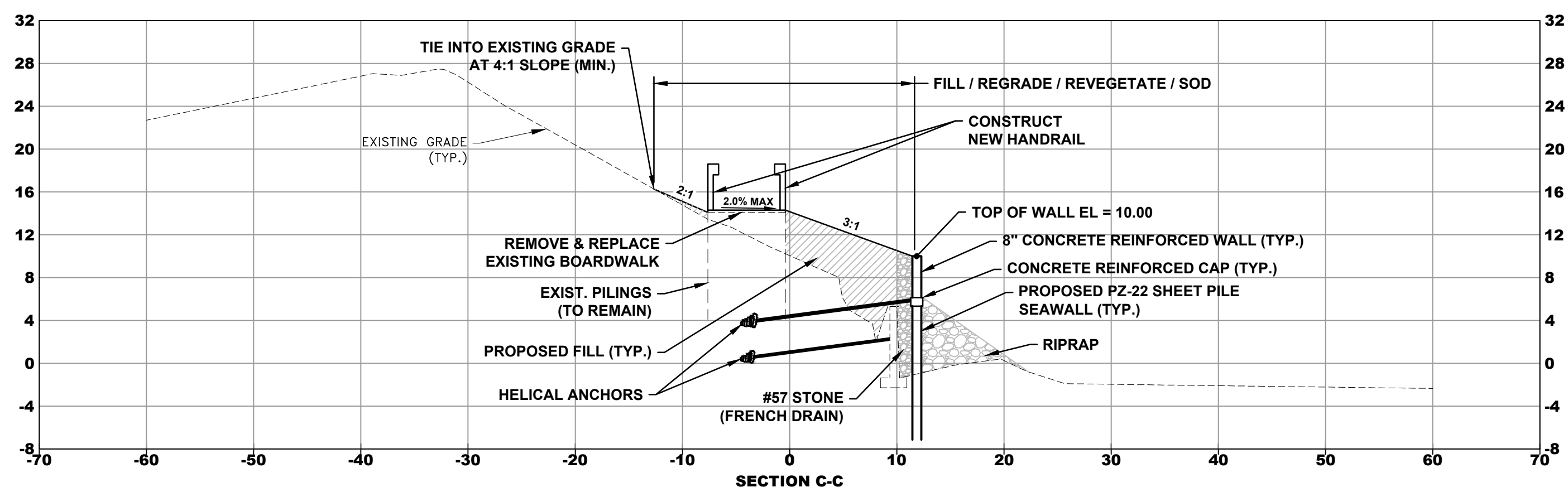
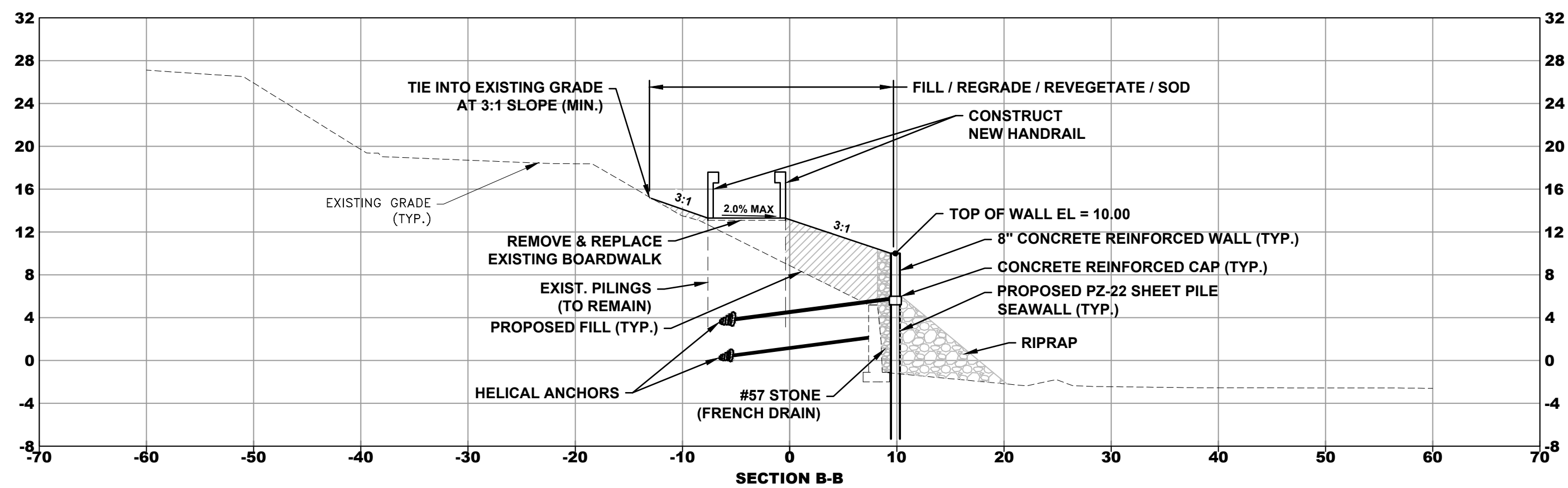
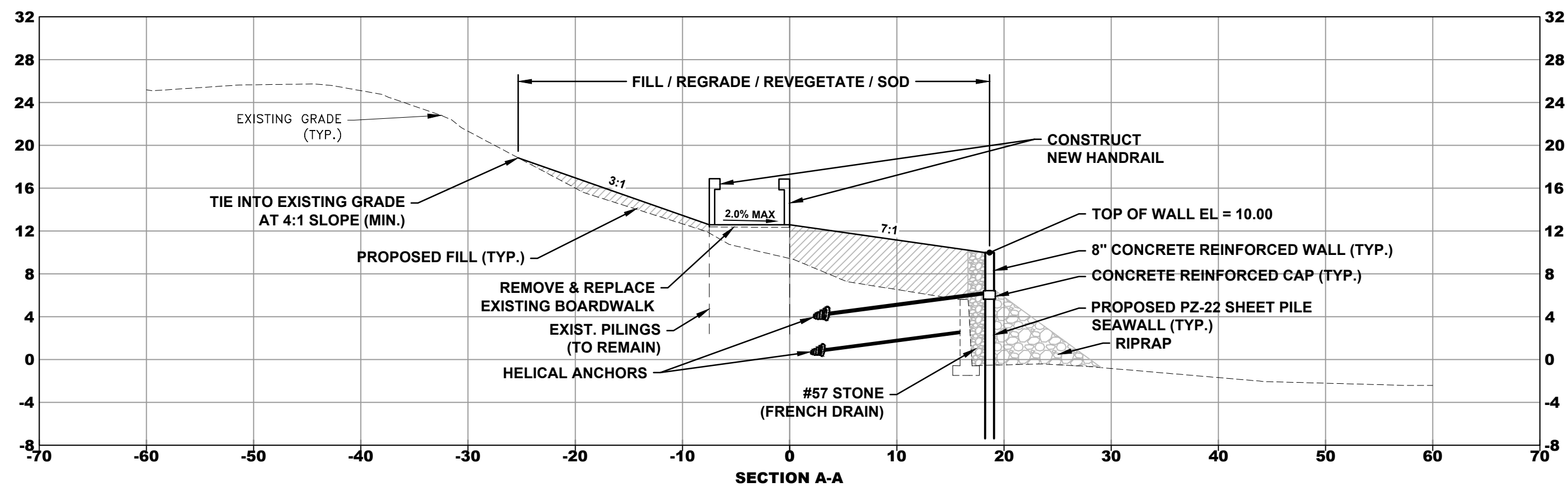
■ THESE SIGNS MUST NOT FACE THE WATER, MUST NEVER BE ATTACHED TO PILING OR NAVIGATIONAL MARKERS IN THE WATER. THE EXCEPTION TO DIRECTION THE SIGN IS FACING IS THE "CAUTION BOATERS" SIGN, WHEN IT IS USED AS A TEMPORARY SIGN DURING IN-WATER WORK.

■ ALL SIGNS SHOULD BE METAL OR FIBERGLASS WITH ROUNDED CORNERS (HAND-SANDED TO REMOVE ALL SHARP EDGES AND BURRS), CONSTRUCTED OF 0.08 GAUGE 5052-H38 ALUMINUM WITH AN ALODINE 1200 CONVERSION COATING AND ENGINEER GRADE TYPE I REFLECTIVE SHEETING.

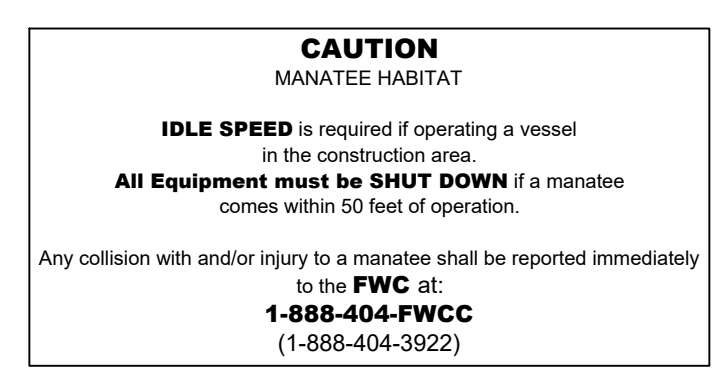
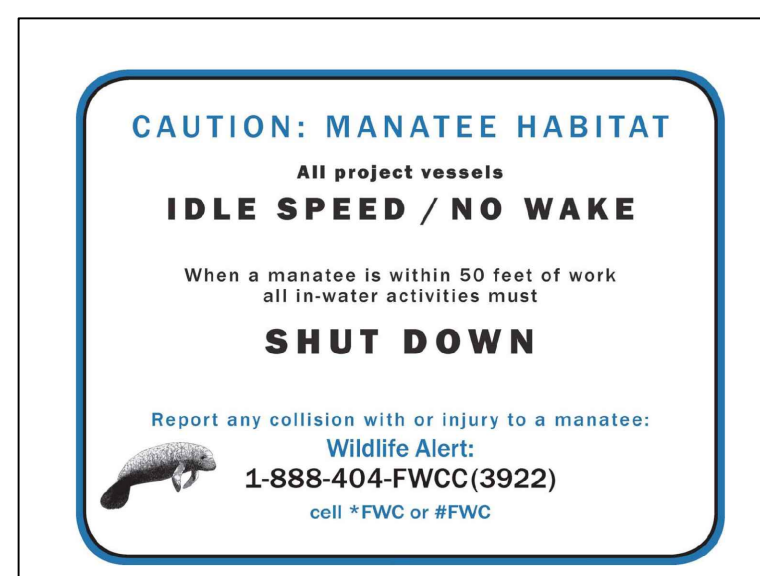
■ SIGNS OTHER THAN DEPICTED MAY BE CONSIDERED, BUT MUST BE PRE-APPROVED BY FWC.



WEEPHOLE PENETRATION THROUGH SHEET WALL DETAIL
N.T.S.



SCALE 1" = 10' HORZ AND VERT



DATE:	04/20
DRAWN BY:	TJS
DESIGNED BY:	TJA
CHECKED BY:	JWC
PROJECT NO.:	1743.B
HORIZ. SCALE:	1" = 10'
VERT. SCALE:	1" = 10'
CAUD FILE:	1743.B.DWG

NO.	DATE	BY	REVISIONS
1	01/14/20	JWC	BID SET
2	08/06/19	JWC	FDEP COMMENTS
3	04/23/19	JWC	60% PLANS

SCALE VERIFICATION	1
SOLID BAR IS EQUAL ORIGINAL DRAWING DIMENSIONS ACCORDINGLY	

TUCKAHOE MANSION SEAWALL REPLACEMENT PROJECT
MARTIN COUNTY, FL
SECTIONS & DETAILS

JOSEPH W. CAPRA, PE
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.

GENERAL NOTES

- DRAWING DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER / ENGINEER BEFORE COMMENCING WORK.
- NO FIELD CHANGES OR DEVIATION FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER / ENGINEER.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FDEP / ACOE PERMIT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CLEARING AND GRUBBING WITHIN THE PROJECT LIMITS. UNLESS NOTED OTHERWISE, THIS SHALL CONSIST OF THE COMPLETE REMOVAL AND PROPER DISPOSAL OF ALL GRASS, WEEDS, TREES, BRUSH, STUMPS, ROOTS, RUBBISH AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE EXISTING GROUND SURFACE TO A DEPTH OF ONE FOOT (1'). ITEMS TO REMAIN OR TO BE ADJUSTED OR RELOCATED SHALL BE SO DESIGNATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ALL RUBBLE, DEBRIS AND ANY OTHER UNUSABLE OR UNSUITABLE MATERIAL. THE CONTRACTOR SHALL BE ADVISED THAT THE COUNTY NORMALLY DOES NOT WAIVE TIPPING FEES AT ITS LANDFILL SITES.
- THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS CONTRACT AS ENACTED BY THE LEGISLATURE OF THE STATE OF FLORIDA TO BE IN EFFECT AS OF OCTOBER 1, 1990.
- ELEVATION DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- SHOP DRAWINGS FOR ALL CONSTRUCTION ITEMS SHALL BE SUBMITTED TO THE OWNER / ENGINEER FOR REVIEW AND APPROVAL.
- CONSTRUCTION DEWATERING (WELL POINTS, SUMPS, ETC.) MAY REQUIRE A SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) WATER USE/DEWATERING PERMIT. THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING WATER USE/DEWATERING PERMITS AS NECESSARY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR GAINING COMPLETE FAMILIARITY WITH THE PROJECT SITE INCLUDING ACCESS LIMITATIONS, SUBSURFACE SOIL CONDITIONS AND GROUNDWATER TABLE LEVELS.
- THE CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERINTENDENT TO BE PRESENT AT THE PROJECT PRE-CONSTRUCTION MEETING AND TO REMAIN ON THE JOB SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED.
- THE CONTRACTOR SHALL HAVE THE FOLLOWING AVAILABLE AT THE JOB SITE AT ALL TIMES: ONE COPY (1) OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS, ONE (1) COPY OF EACH REQUIRED CONSTRUCTION PERMIT, AND ONE COPY (1) OF THE UTILITY COMPANY DESIGN AND CONSTRUCTION STANDARDS.
- THE CONTRACTOR SHALL RESTORE/REPLACE ALL EXISTING PAVEMENT, DRIVEWAYS, SIDEWALKS, MAILBOXES, SOD, LANDSCAPING, CONDUIT, CABLE, IRRIGATION SYSTEMS, ETC., AFFECTED BY CONSTRUCTION ACTIVITIES.
- SOD SHALL BE REPLACED FOR THE FULL WIDTH DISTURBED. SOD TYPE SHALL MATCH EXISTING UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE DRAINAGE AND PROPER DUST CONTROL ON THE PROJECT SITE AT ALL TIMES. THE LOCAL UTILITY COMPANY MAY REQUIRE THE USE OF NON-POTABLE WATER FOR DUST CONTROL.

UTILITY COORDINATION

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY COORDINATION DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ANY UNDERGROUND CONDUIT AND / OR PIPING REQUIRED FOR ELECTRIC POWER, TELEPHONE, CABLE TELEVISION, IRRIGATION, ETC., PRIOR TO BEGINNING SUBGRADE WORK. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ALL EXISTING UTILITIES WITH THE APPLICABLE UTILITY COMPANIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY AND PAYING ALL NECESSARY FEES FOR HOLDING POWER POLES AND/OR LINES AFFECTED BY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AT ALL TIMES DURING CONSTRUCTION, INCLUDING PROVIDING DIRECT SUPPORT AND / OR SHORING EXCAVATED AREAS AS NECESSARY. THE CONTRACTOR SHALL NOTIFY AFFECTED UTILITY COMPANIES PRIOR TO ATTEMPTING ANY FACILITY SUPPORT. IF A UTILITY COMPANY REQUIRES THAT ONLY THEIR CREWS MAY SUPPORT THEIR FACILITIES, THEN THE CONTRACTOR SHALL PROVIDE FOR THE REQUIRED COORDINATION AND PAYMENT.
- ALL UTILITY SYSTEM CONSTRUCTION SHALL BE INSTALLED, INSPECTED AND TESTED IN ACCORDANCE WITH THE UTILITY COMPANY DESIGN AND CONSTRUCTION STANDARDS. IN CASE OF DISCREPANCIES BETWEEN THE CONSTRUCTION PLANS AND THE UTILITY COMPANY SPECIFICATIONS, THE MOST RESTRICTIVE SHALL APPLY.
- THE CONTRACTOR SHALL ALLOW UTILITY COMPANIES TO INSPECT THE APPLICABLE UTILITY WORK DURING CONSTRUCTION.

TURBIDITY CONTROL PLAN

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A SPECIFIC TURBIDITY CONTROL PLAN TO THE OWNER/ENGINEER FOR REVIEW AND APPROVAL. THE TURBIDITY CONTROL PLAN SHALL DESCRIBE IN DETAIL THE PROPOSED METHODS FOR CONTROLLING SEDIMENTS AND PROTECTING WATER QUALITY IN ALL AREAS DOWNSTREAM OF THE CONSTRUCTION WORK. THE PLAN SHALL ADDRESS THE USE OF TURBIDITY BARRIERS SUCH AS HAY BALES, SILT SCREENS, FLOATING CURTAINS, ETC. AND PROVIDE FOR TURBIDITY MONITORING AS APPROPRIATE.

PAVING GRADING AND DRAINAGE

- SITE GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES. ALL AREAS SHALL BE GRADED AS NECESSARY TO DRAIN.
- ALL AREAS SHALL BE SODDED AS SOON AS PRACTICAL AFTER FINAL GRADING TO PREVENT EROSION.
- THE CONTRACTOR SHALL IMMEDIATELY CORRECT ANY EROSION, SHOALING OR WATER QUALITY PROBLEMS THAT ARE CAUSED AS A RESULT OF CONSTRUCTION ACTIVITIES.
- CERTIFIED TEST REPORTS SHALL BE PROVIDED TO THE OWNER/ENGINEER FOR REVIEW AND APPROVAL. REPORTS SHALL BE SUBMITTED DOCUMENTING THE TEST RESULTS OF THE FOLLOWING ITEMS AS A MINIMUM: BACKFILL GRADATION AND COMPACTION, SUBGRADE BEARING AND COMPACTION, AND CONCRETE BREAK STRENGTH. THIS IS FOR AREAS UNDER CONCRETE.

BACKFILL DENSITY TESTING

ALL BACKFILL DENSITY TESTS SHALL BE CONDUCTED BY AN INDEPENDENT TESTING LAB. FOR TYPICAL PIPE TRENCHES, BACKFILL DENSITY TESTS SHALL BE PERFORMED AT 500 FEET (MAXIMUM) INTERVALS. FOR PIPE TRENCHES AT ROADWAYS, TURN-LANES AND DRIVEWAY OPEN-CUTS, A MINIMUM OF ONE (1) BACKFILL DENSITY TEST SHALL BE PERFORMED AND THEREAFTER AT 5 FEET (MAXIMUM) INTERVALS. TESTS SHALL BE CONDUCTED AT THE GROUND AND FOR EVERY SIX INCH (6") LAYER TO FINISH GRADE. CERTIFIED COPIES OF THE TEST REPORTS SHALL BE PROVIDED TO THE OWNER / ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE TESTING LAB AS NECESSARY DURING THE CONSTRUCTION WORK.

SOIL CONSERVATION/CONTROL PLAN

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A SPECIFIC SOIL CONSERVATION / CONTROL PLAN TO THE OWNER/ENGINEER FOR REVIEW AND APPROVAL. THE PLAN SHALL DESCRIBE THE PROVISIONS FOR ASSURING THAT ALL ON-SITE SOILS WILL REMAIN ON-SITE DURING CONSTRUCTION AND WILL NOT ERODE INTO ADJACENT PROPERTIES, ADJACENT ROADSIDE SWALES, OR RETENTION AREAS. AS A MINIMUM, THE PLAN SHALL INCLUDE THE FOLLOWING:

- ALL EXISTING DRAINAGE SWALES SHALL REMAIN SODDED DURING CONSTRUCTION.
- SCARIFICATION SHALL BE PERFORMED ONLY TO THE EXTENT ABSOLUTELY NECESSARY.
- HAY BALES AND SILTATION FENCES (PER FDOT INDEX 102) SHALL BE USED DURING CONSTRUCTION TO PROTECT OFF-SITE AREAS FROM DISCHARGES.
- HAY BALES AND SILTATION FENCES (PER FDOT INDEX 102) SHALL BE USED DURING CONSTRUCTION TO PROTECT DRAINAGE SWALES AND RETENTION AREAS FROM ANY DEWATERING AND/OR PUMPING OF WATER.
- ALL DISTURBED AREAS SHALL BE SODDED AS SOON AS PRACTICAL TO PREVENT EROSION.
- DRAINAGE SWALES AND RETENTION AREAS SHALL BE STABILIZED AND SODDED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.

CONCRETE

- CONCRETE SHALL BE CLASS 1 4000 PSI CONCRETE FURNISHED AND INSTALLED IN ACCORDANCE WITH ACI 318. SHALL BE SUBMITTED TO THE OWNER / ENGINEER FOR REVIEW AND APPROVAL.
- REINFORCING STEEL SHALL BE GRADE 60 IN ACCORDANCE WITH ASTM A-615. LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318.

PILING - MISCELLANEOUS

- STORAGE AND HANDLING OF PILES SHALL BE AS SUCH TO ELIMINATE THE DANGER OF IMPACT FRACTURE AND UNDUCE BENDING STRESSES IN TRANSPORTING THE PILES FROM THE FORMS AND INTO THE LEADS.
- TURBIDITY CURTAINS SHALL BE EMPLOYED AS NECESSARY IN ORDER TO EFFECTIVELY CONTROL TURBIDITY DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT DAMAGE TO EXISTING ADJACENT STRUCTURES DURING PILE DRIVING OPERATIONS.
- THE CONTRACTOR MAY INSTALL THE PILING BY METHODS OTHER THAN DRIVING, PRE-DRILLING, JETTING, ETC. IN ORDER TO MINIMIZE THE EFFECTS OF VIBRATION ON EXISTING ADJACENT STRUCTURES, HOWEVER, THE PILING SHALL BE DRIVEN WITHOUT INTERRUPTION FOR THE LAST FIVE FEET (5').

AS-BUILT PLANS

TOWARD THE END OF THE PROJECT PRIOR TO REQUESTING THE SUBSTANTIAL COMPLETION WALKTHROUGH, THE CONTRACTOR SHALL PRODUCE AT HIS OWN EXPENSE AND SUBMIT TO THE OWNER VIA THE ENGINEER OR ARCHITECT THE FOLLOWING COPIES OF RECORD DRAWINGS FOR REVIEW AND APPROVAL:

- THREE BLUE (OR BLACK) LINE DRAWINGS SIGNED AND SEALED BY A REGISTERED PROFESSIONALS ENGINEER OR PROFESSIONAL SURVEYOR AND MAPPER LICENSED IN THE STATE OF FLORIDA.

AT THE COMPLETION OF THE PROJECT, INCLUDING PUNCH LIST ITEMS AND PRIOR TO SUBMITTING AN APPLICATION FOR FINAL PAYMENT, THE CONTRACTOR SHALL PRODUCE AT HIS OWN EXPENSE AND SUBMIT TO THE OWNER VIA THE ENGINEER OR ARCHITECT THE FOLLOWING COPIES OF FINAL RECORD DRAWINGS FOR REVIEW AND APPROVAL:

- EIGHT BLUE (OR BLACK) LINE DRAWING SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL SURVEYOR AND MAPPER LICENSED IN THE STATE OF FLORIDA.
- ONE DIGITAL COPY OF THE RECORD DRAWINGS IN "AUTOCAD" FORMAT VERSION 2004 OR EARLIER AND ADOBE ACROBAT (PDF).

THE ENGINEER MAY REQUIRE THE CONTRACTOR TO SUBMIT ADDITIONAL SIGNED AND SEALED COPIES OF RECORD DRAWINGS AT ANY TIME IN THE PROCESS FOR REVIEW OR USE BY THE OWNER AND ENGINEER AND THE CONTRACTOR WILL PROVIDE ADDITIONAL SIGNED AND SEALED COPIES AS REQUESTED AT NO ADDITIONAL EXPENSE TO THE OWNER OR ENGINEER. ALL ENGINEERING RECORD DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL SURVEYOR AND MAPPER LICENSED IN THE STATE OF FLORIDA. ALL DIGITAL RECORD INFORMATION FILES MUST BE IN STATE PLANE COORDINATES: (NAD 83/90). THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION STAKING AS NEEDED, TO ACCURATELY COMPLETE THE PROJECT.

GEOTECHNICAL REPORT

SUBSURFACE SOIL EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION
THE MANSION AT TUCKAHOE - INDIAN RIVERSIDE PARK
SEAWALL REPLACEMENT PROJECT
MARTIN COUNTY, FLORIDA
ANDERSEN ANDRE CONSULTING ENGINEERS
4-24-19

PERMITS

- FDEP: FILE NO. 43-199775-002-EG-003-EE, 7-12-13
GENERAL PERMIT TO INSTALL RIP-RAP (62-330.431)
EXEMPTION TO REPLACE EXISTING SEAWALL WITHIN 18 INCHES OF THE EXISTING SEAWALL (WETFACE TO WETFACE) (62-330.051(12)(B))
- FDEP: FILE NO. 43-0199775-004-EE, 8-30-19
EXEMPTION TO INSTALL BASE ROCK AND CONSTRUCTION MATS (FS 373.406(6))
- ACOE: SAJ-2014-03008(NW-CF), 10-18-19
NATIONWIDE PERMITE NO. 33 FOR INSTALLATION OF CONSTRUCTION ACCESS

SUBCONSULTANTS:

SURVEYOR:

BETSY LINDSAY, INC.
ELIZABETH A LINDSAY, P.L.S.
7997 S.W. JACK JAMES DRIVE
STUART, FL. 34997
(772)286-5753


GEOTECH:

ANDERSEN ANDRE CONSULTING ENG.
PETER G. ANDERSEN, P.E.
834 SW SWAN AVENUE
PORT ST. LUCIE, FL. 34983
(772)807-9191

STRUCTURAL:

TRC WORLDWIDE ENGINEERING, INC.
DAVID O'CHARLAND, P.E., S.I.
1230 N. UNIVERSITY DRIVE
PLANTATION, FL. 33322
(954)484-7777

* 301 NW Flagler Ave
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341



Engineering Business
No. EB-0007657
Civil Engineering Professionals

DATE: 9/4/20
DRAWN BY: TJS
DESIGNED BY: TLA
CHECKED BY: JWC
PROJECT NO.: 1743.B
HORIZ. SCALE: N/A
VERT. SCALE: N/A
CADD FILE: 1743.B.DETAILS

NO.	DATE	BY	REVISIONS
3	01/14/20	JWC	BID SET
2	08/06/19	JWC	FDEP COMMENTS
1	04/23/19	JWC	60% PLANS

SCALE VERIFICATION

1
0

SOLID BAR IS EQUAL ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

TUCKAHOE MANSION SEAWALL REPLACEMENT PROJECT
MARTIN COUNTY, FL

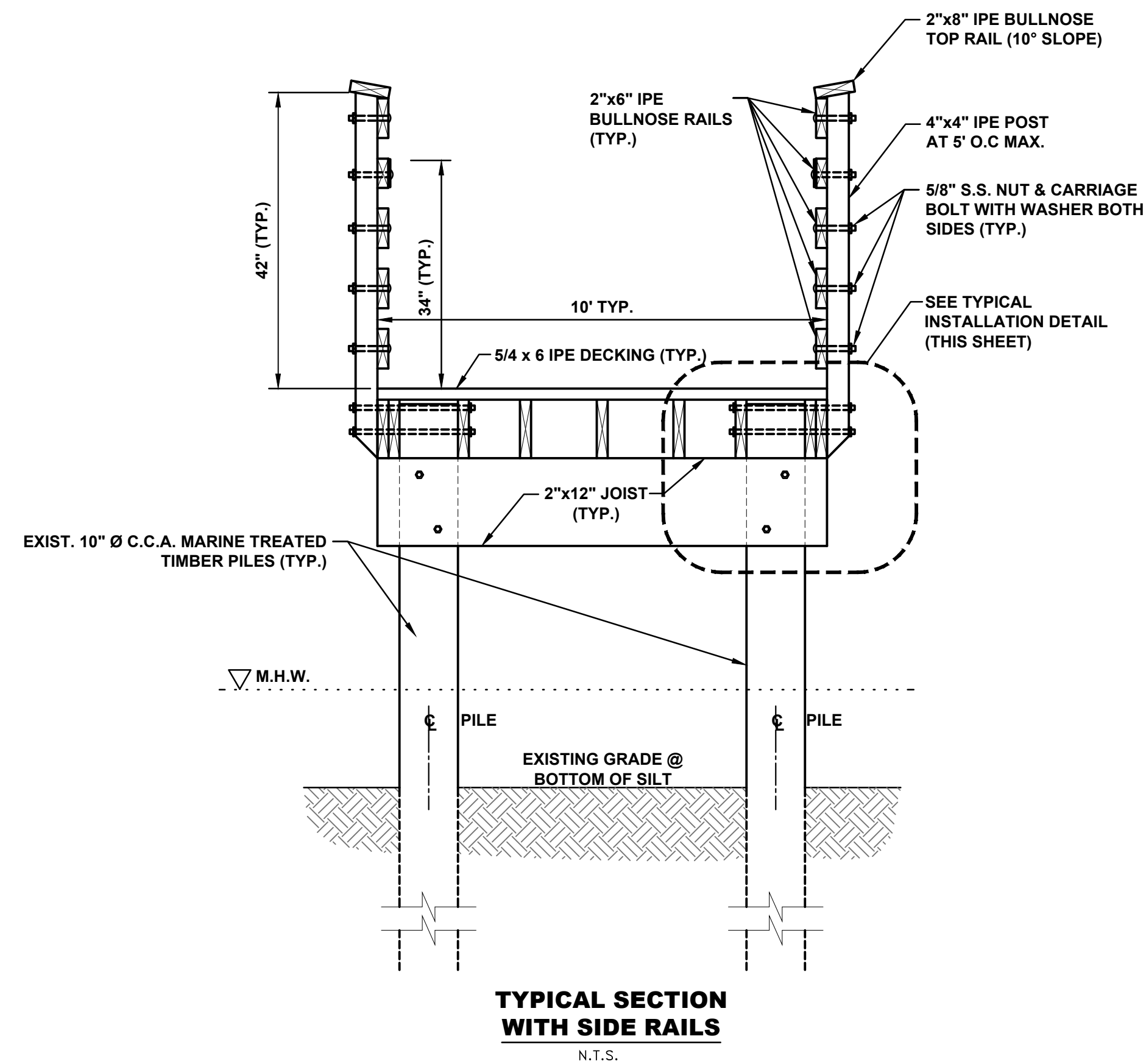
GENERAL NOTES

JOSEPH W. CAPRA, PE
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

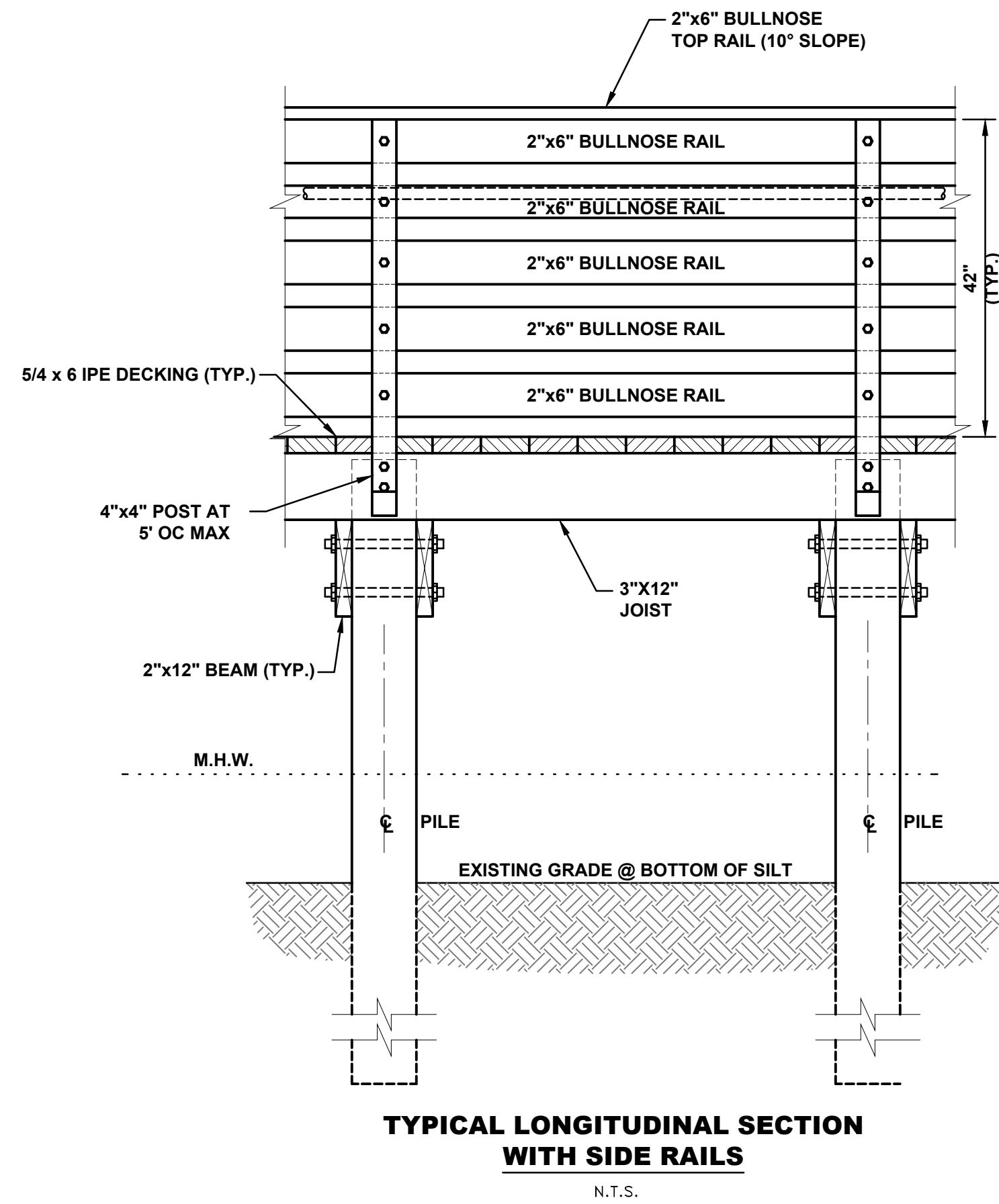
Printed Date:

JOB No.: **1743.8**
SHEET
5 OF **5**

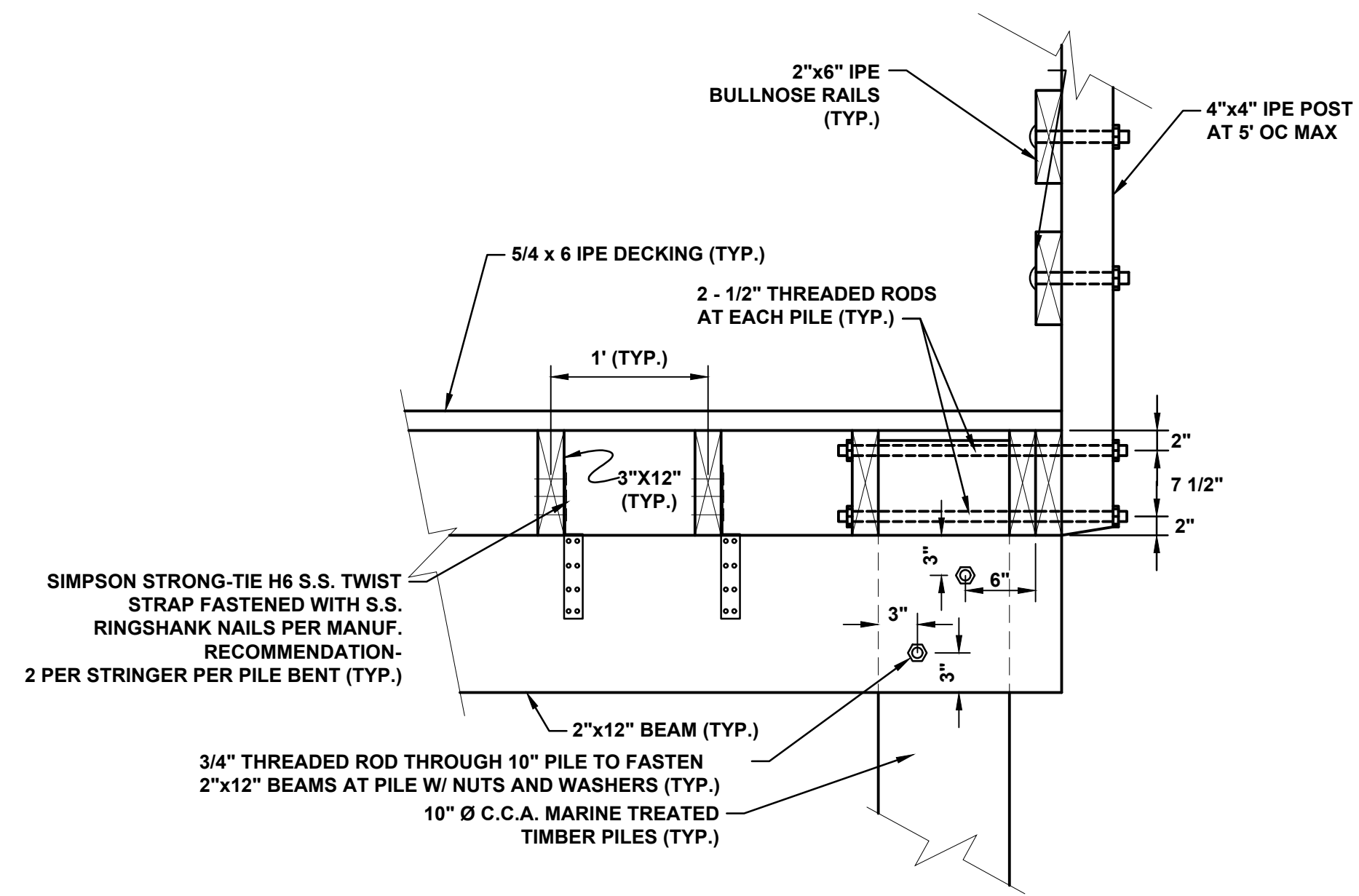
THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.



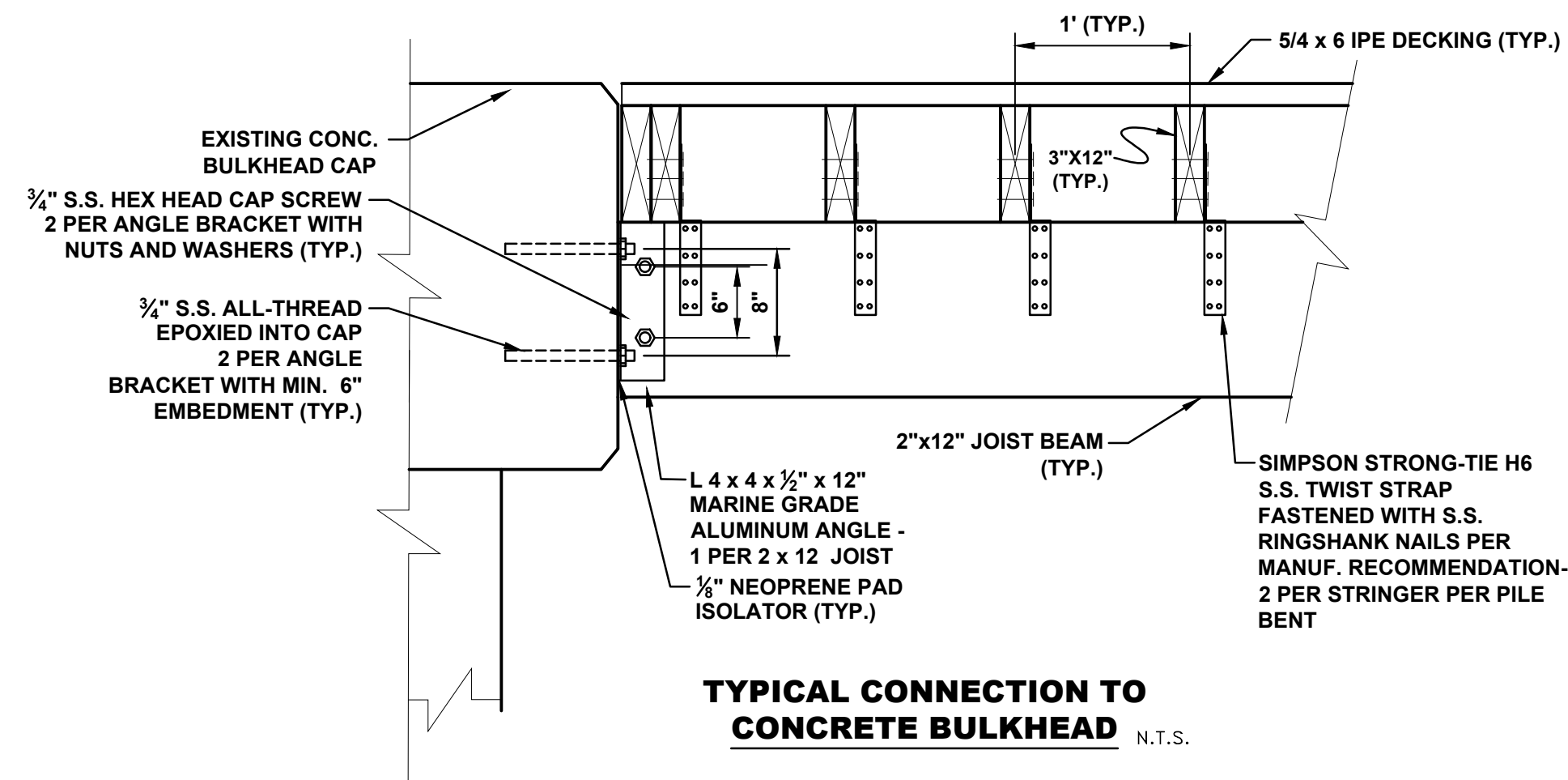
TYPICAL SECTION WITH SIDE RAILS
N.T.S.



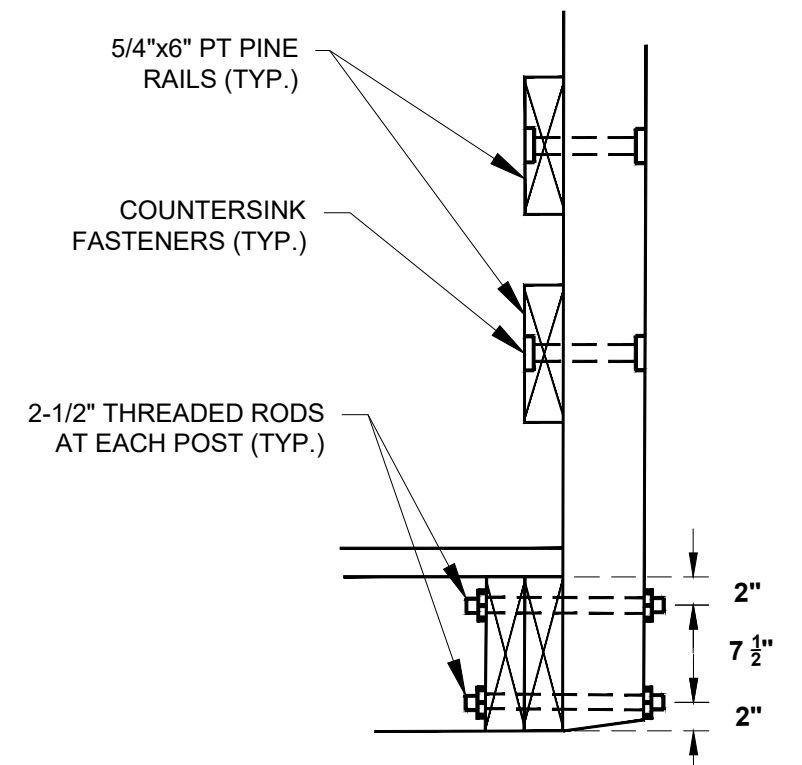
TYPICAL LONGITUDINAL SECTION WITH SIDE RAILS
N.T.S.



TYPICAL INSTALLATION DETAIL WITH SIDE RAILS



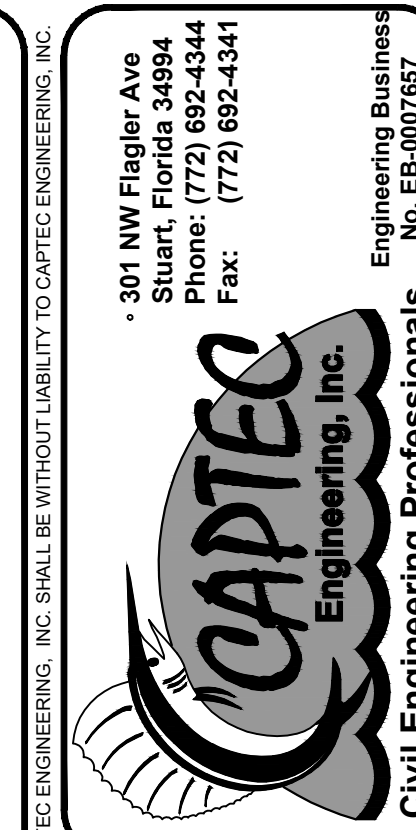
TYPICAL CONNECTION TO CONCRETE BULKHEAD
N.T.S.



TYPICAL INSTALLATION DETAIL WITH INTERMEDIATE POST

BOARDWALK CONSTRUCTION NOTES

1. Provide wood construction as specified and as indicated on drawings.
2. The CONTRACTOR shall submit lumber and hardware specifications, samples and product data of materials to the OWNER for review and approval prior to installation.
3. Comply with all governing codes and regulations, use experienced installers. Deliver, handle and store materials in proper manner to eliminate damage.
4. All sub-deck structural lumber (beams, joists, stringers, etc.) shall be CCA Pressure Treated Grade #2 structural yellow pine in accordance with AWP Standard C-18-73 at the rate of 2.50/FT unless otherwise noted. Note: All exposed surfaces to view shall be free of markings and defects.
5. All boardwalk decking, railings, and posts shall be solid wood IPE select and better hardwood S4S with eased edges unless otherwise noted on plans. Decking shall be placed in full lengths and spaced 1/4-inch maximum from each other. Decking shall be fastened with two #10 X 3" stainless steel, grade 316, deck screws square drive at each joist/support. Screws shall be set flush with surface of deck. Deck must be pre-drilled for a flush screw set.
6. All 3" X 12" joists shall bear on 2" X 12" beams a minimum of 4" and shall overlap a minimum of 12".
7. In cases where the decking cannot be installed perpendicular to the joists, bracing members 2" X 12" in size shall be attached to the joists at 16" OC.
8. A preservative treatment shall be applied to all fresh cut surfaces for sawn or bored wood members.
9. No splitting of lumber shall be permitted.
10. All hardware (screws, bolts, rods, washers, nuts, angles, etc.) shall be stainless steel grade 316 unless otherwise noted.
11. All bolts shall be fastened with nuts and washers. No lag bolts shall be permitted unless otherwise noted. All bolts, nuts, and washers above deck (railings and posts) shall be bored and countersunk.



DATE:	04/20
DRAWN BY:	TJS
CHECKED BY:	TJA
PROJECT NO.:	7
HORIZ. SCALE:	1" = 20'
VERT. SCALE:	N/A
CADD FILE:	17438.DWG

NO.	DATE	BY	REVISIONS
1	04/23/19	JWC	80% PLANS

SCALE	1
VERIFICATION	SOLID BAR IS EQUAL ORIGINAL DRAWING ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

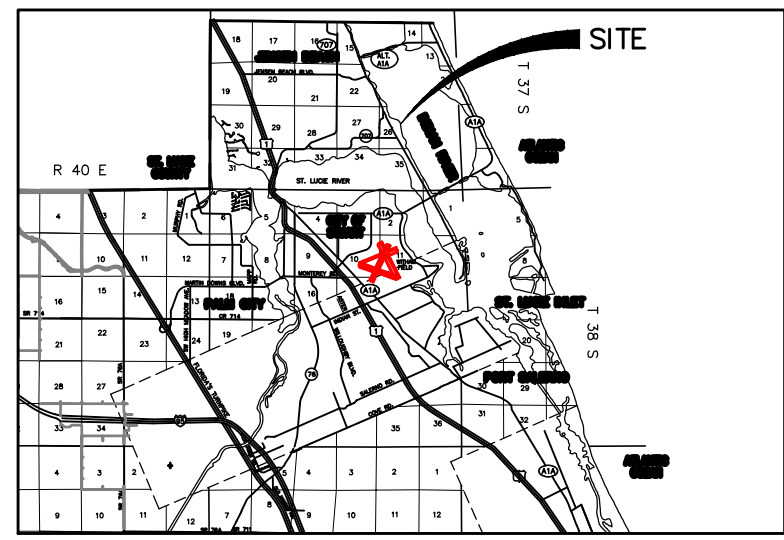
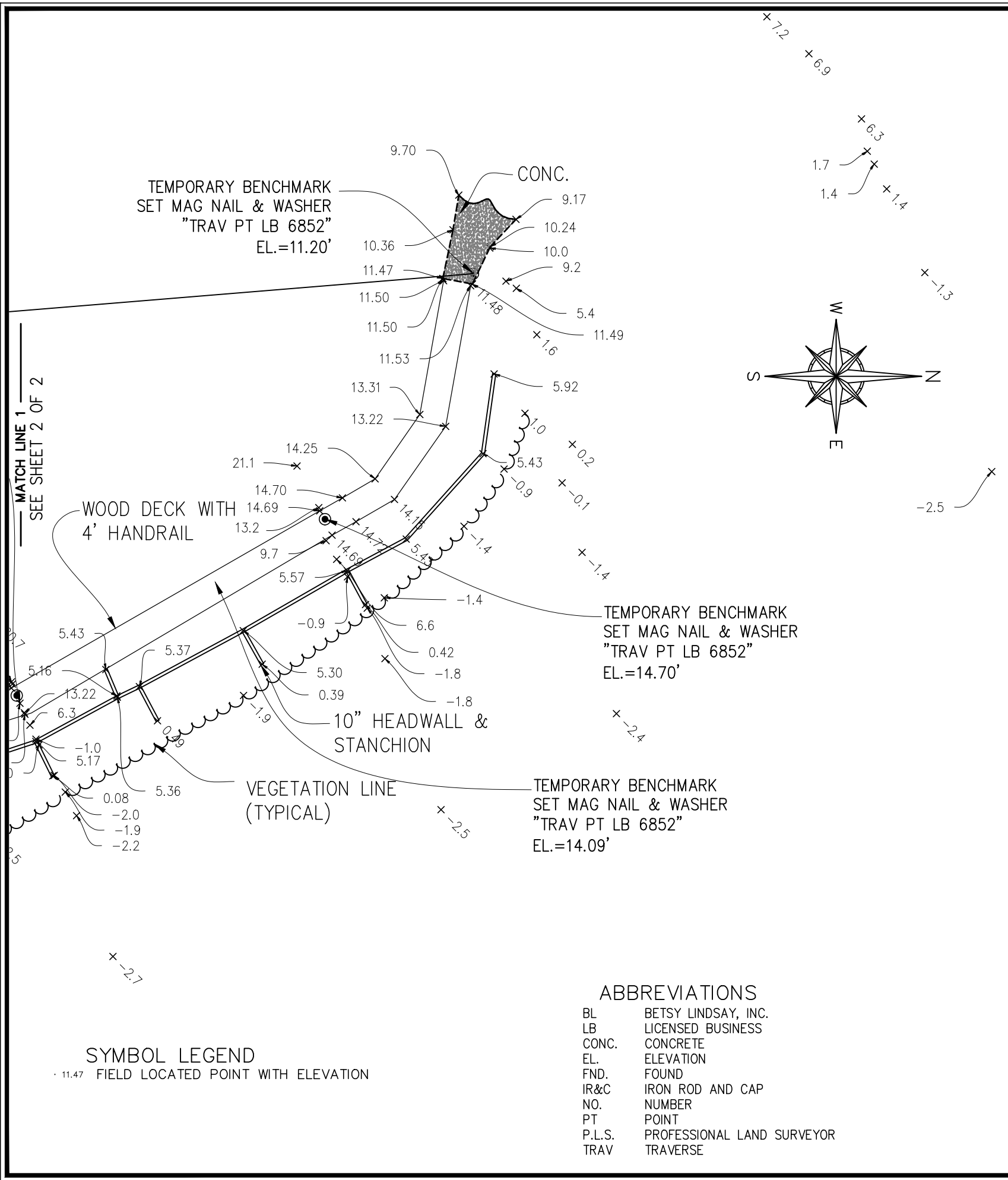
TUCKAHOE MANSION SEAWALL REPLACEMENT PROJECT
MARTIN COUNTY, FL
DETAILS

JOSEPH W. CAPRA, PE
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No.: **1743.8**
SHEET
7 OF 7

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.



SURVEYOR'S NOTES

1. BEARINGS AS SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES, U.S. SURVEY FEET, NORTH AMERICAN DATUM OF 1983/2011 (N.A.D. 83/11), FLORIDA EAST ZONE, REFERENCE A BEARING OF N04°41'08"W ALONG A LINE BETWEEN TWO TEMPORARY ONSITE BENCHMARKS.
2. ELEVATIONS AS SHOWN HEREON REFERENCE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88) , REFERENCE MARTIN COUNTY BENCHMARKS "MANSION", ELEVATION=26.51 FEET AND "IRP-1", ELEVATION=11.74 FEET.
3. THIS SURVEY IS BASED ON A CLOSED GEOMETRIC FIGURE EXCEEDING A HORIZONTAL CLOSURE OF 1:10,000.
4. THERE WAS NO ATTEMPT TO LOCATE ANY SUBSURFACE FOUNDATIONS.
5. NO UNDERGROUND UTILITIES WERE LOCATED OR SHOWN HEREON.
6. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR UNLESS DIGITALLY SIGNED.
7. THIS SURVEY WAS DONE IN THE FIELD UTILIZING GLOBAL POSITIONING SYSTEM (G.P.S.) WITH REAL TIME KINEMATIC (R.T.K.) ALL DISTANCES GIVEN ARE GRID DISTANCES. THE SCALE FACTOR = 1.0000162.

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE "SPECIFIC PURPOSE SURVEY" AS SHOWN HEREON IS A TRUE AND CORRECT REPRESENTATION OF A FIELD SURVEY MADE UNDER MY DIRECTION AND CHARGE ON DECEMBER 12, 2018 AND SAID "SPECIFIC PURPOSE SURVEY" IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF. IT IS FURTHER CERTIFIED THAT THIS "SPECIFIC PURPOSE SURVEY" COMPLIES WITH THE STANDARDS OF PRACTICE FOR "SPECIFIC PURPOSE SURVEY" SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

BETSY LINDSAY, INC.
SURVEYING AND MAPPING

ELIZABETH A. LINDSAY, P.L.S.
FLORIDA REGISTRATION NO. 4724

NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER UNLESS DIGITALLY SIGNED

B BETSY LINDSAY, INC.
SURVEYING AND MAPPING

7997 S.W. JACK JAMES DRIVE STUART, FLORIDA 34997
(772)286-5753 (772)286-5933 FAX
LICENSED BUSINESS NO. 6852

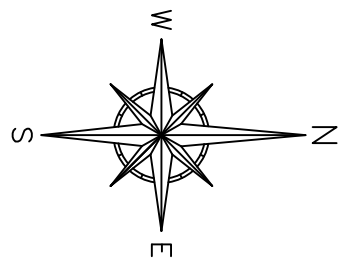
DATE	REVISIONS

DATE	12/12/2018
SCALE	1"=30'
FIELD BK.	MC 47
DRAWN BY	C.R.
CHECKED BY	E.A.L.

**INDIAN RIVERSIDE PARK BOARDWALK & SEAWALL
MARTIN COUNTY, FLORIDA**

**SPECIFIC PURPOSE SURVEY
CAPTEC ENGINEERING, INC.**

SHEET NO.	1
OF	2 SHEETS
PROJECT NO.	03-58B



MARTIN COUNTY BENCHMARK
MAG NAIL & DISK STAMPED "MANSION"
EL.=26.51'

(REFERENCE BEARING)
N4° 41'08"W
458.68'

TEMPORARY BENCHMARK
SET MAG NAIL & WASHER
"TRAV PT LB 6852"
EL.=13.22'

TEMPORARY BENCHMARK
SET MAG NAIL & WASHER
"TRAV PT LB 6852"
EL.=19.57'

TEMPORARY BENCHMARK
SET MAG NAIL & WASHER
"TRAV PT LB 6852"
EL.=12.58'

TEMPORARY BENCHMARK
SET MAG NAIL & WASHER
"TRAV PT LB 6852"
EL.=10.77'

WOOD DECK WITH
4' HANDRAIL

STAIRS

CONC. WALK
CONC CURB

4' WOOD
HANDRAIL

10' HEADWALL
WITH STANCHIONS

TEMPORARY BENCHMARK
SET MAG NAIL & WASHER
"TRAV PT LB 6852"
EL.=12.10'

VEGETATION LINE
(TYPICAL)

MATCH LINE 1
SEE SHEET 1 OF 2

DATE	REVISIONS

DATE 12/12/2018
SCALE 1"=50'
FIELD BK. MC 47
DRAWN BY C.R.
CHECKED BY E.A.L.

INDIAN RIVERSIDE PARK BOARDWALK & SEAWALL
MARTIN COUNTY, FLORIDA

SPECIFIC PURPOSE SURVEY
CAPTEC ENGINEERING, INC.

SHEET NO. 2
OF 2 SHEETS
PROJECT NO. 03-58B

B BETSY LINDSAY, INC.
SURVEYING AND MAPPING
7997 S.W. JACK JAMES DRIVE STUART, FLORIDA 34997
(772)286-5753 (772)286-5933 FAX
LICENSED BUSINESS NO. 6852