

# CONSTRUCTION PLANS

FOR



## MATANZAS PASS PRESERVE VARIOUS BOARDWALK REPAIRS

FEMA DI : 1291129

FEMA PROJECT # : 719532

SECTION 19, 20, TOWNSHIP 46 S., RANGE 24 E.

LEE COUNTY, FLORIDA

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PROJECT LOCATION

This item has been digitally signed and sealed by Jordan L. Varble, P.E., on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

### LOCATION MAP

0 1000 2000 4000  
 INTENDED DISPLAY SCALE:  
 22"X34" PLAN 1"=2000'  
 11"X17" PLAN 1"=4000'

FEBRUARY 2025

### OWNER

LEE COUNTY  
 2115 SECOND ST  
 FORT MYERS, FL 33901  
 PHONE: (239) 533-2221  
 FAX: (239) 485-2262

### SITE ADDRESS

199 BAY RD,  
 FORT MYERS BEACH, FL 33931

### STRAP NUMBERS

19-46-24-W3-00024.0000  
 19-46-24-W3-00201.0010  
 20-46-24-W4-00003.0000

### SIZE OF PARCEL

53.87 ACRES

### ZONING

TOWN OF FORT MYERS BEACH

### BOARD OF COUNTY COMMISSIONERS

|                   |            |
|-------------------|------------|
| KEVIN RUANE       | DISTRICT 1 |
| CECIL PENDERGRASS | DISTRICT 2 |
| DAVID MULICKA     | DISTRICT 3 |
| BRIAN HAMMAN      | DISTRICT 4 |
| MIKE GREENWELL    | DISTRICT 5 |

### COUNTY MANAGER

DAVE HARNER

### ASSISTANT COUNTY MANAGER

PETER WINTON  
 CHRISTINE BRADY  
 GLEN SALYER  
 MARC MORA  
 ROBERT CODIE

### FACILITIES CONSTRUCTION & MANAGEMENT

EHAB GUIRGUIS, P.E.

### WEILER ENGINEERING CORPORATION



WEILER ENGINEERING CORP.  
 201 WEST MARION AVENUE SUITE  
 1306 PUNTA GORDA, FLORIDA 33950  
 PHONE: (941) 505-1700  
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JOHNSON ENGINEERING, LLC.  
 2122 JOHNSON STREET  
 FORT MYERS, FLORIDA 33901  
 PHONE: (239) 334-0046  
 E.R. #642 & L.B. #642

— An Apex Company —

REGISTERED PROFESSIONAL ENGINEER  
 FLORIDA LICENSE NO. 81414

JORDAN LEVI VARBLE, PE

DATE



NOTICE TO ALL CONTRACTORS

IT'S THE LAW IN FLORIDA  
 2 BUSINESS DAYS BEFORE  
 YOU DIG  
 CALL SUNSHINE  
 1-800-432-4770

STATE, COUNTIES & CITIES  
 ARE "NOT" PART OF THE  
 ONE CALL SYSTEM THEY  
 MUST BE CALLED  
 INDIVIDUALLY.

SHEET NUMBER

C01

**ABBREVIATIONS**

|          |                                     |
|----------|-------------------------------------|
| AC       | ACRE                                |
| ALT      | ALTERNATE                           |
| APPROX.  | APPROXIMATE                         |
| ASB      | ASBESTOS                            |
| BM       | BENCH MARK                          |
| BLDG     | BUILDING                            |
| BOT      | BOTTOM                              |
| CB       | CATCH BASIN                         |
| CF       | CUBIC FEET                          |
| CFM      | CUBIC FEET PER MINUTE               |
| CI       | CAST IRON                           |
| QIP      | CAST IRON PIPE                      |
| CJ       | CONSTRUCTION JOINT                  |
| CMP      | CORRUGATED METAL PIPE               |
| CO       | CLEANOUT                            |
| CV       | CHECK VALVE                         |
| CF       | CUBIC FOOT                          |
| CY       | CUBIC YARD                          |
| CL       | CENTER LINE                         |
| CLKG     | CAULKING                            |
| CLF      | CHAIN LINK FENCE                    |
| COL      | COLUMN, COLOR                       |
| CONC     | CONCRETE                            |
| CONST    | CONSTRUCTION                        |
| CONT     | CONTINUOUS                          |
| CONTR    | CONTRACTOR                          |
| CTRS     | CENTERS                             |
| CU       | COPPER                              |
| CU, IN.  | CUBIC INCH                          |
| DIA., Ø  | DIAMETER                            |
| DIAG     | DIAGONAL                            |
| DM       | DIMENSION                           |
| DIST.    | DISTANCE                            |
| DIP      | DUCTILE IRON PIPE                   |
| DE       | DRAINAGE EASEMENT                   |
| DWG      | DRAWING                             |
| E        | EAST                                |
| EL/ELEV  | ELEVATION                           |
| EQUIP    | EQUIPMENT                           |
| ERCP     | ELLIPTICAL REINFORCED CONCRETE PIPE |
| ESMT     | EASEMENT                            |
| EX       | EXISTING                            |
| FF       | FINISHED FLOOR                      |
| FPE      | FINISHED FLOOR ELEVATION            |
| FM       | FORCE MAIN                          |
| FDC      | FIRE DEPARTMENT CONNECTION          |
| FDN      | FOUNDATION                          |
| FIN      | FINISH                              |
| FRP      | FIBERGLASS REINFORCED PLASTIC       |
| FT       | FEET                                |
| G        | NATURAL GAS                         |
| GC       | GENERAL CONTRACTOR                  |
| GI       | GALVANIZED IRON                     |
| GPM      | GALLONS PER MINUTE                  |
| GV       | GATE VALVE                          |
| GA       | GAUGE                               |
| GAL      | GALLON                              |
| GALV     | GALVANIZED                          |
| GR       | GRADE                               |
| HDPE     | HIGH DENSITY POLYETHYLENE           |
| HOR      | HORIZONTAL                          |
| HVD      | HYDRANT                             |
| ID       | INSIDE DIAMETER                     |
| IDD      | IONA DRAINAGE DISTRICT              |
| INV      | INVERT                              |
| IRR      | IRRIGATION                          |
| LAE      | LAKE ACCESS EASEMENT                |
| LCUE     | LEE COUNTY UTILITY EASEMENT         |
| LF       | LINEAL FEET                         |
| LME      | LAKE MAINTENANCE EASEMENT           |
| LMT      | LAKE MAINTENANCE TRACT              |
| MGD      | MILLION GALLONS PER DAY             |
| MH       | MANHOLE                             |
| MJ       | MECHANICAL JOINT                    |
| MAX      | MAXIMUM                             |
| MECH     | MECHANICAL                          |
| MES      | MITERED END SECTION                 |
| MFR      | MANUFACTURER                        |
| MIN      | MINIMUM                             |
| MISC     | MISCELLANEOUS                       |
| N        | NORTH                               |
| NE       | NORTHEAST                           |
| NW       | NORTHWEST                           |
| NPW      | NON POTABLE WATER                   |
| NTS      | NOT TO SCALE                        |
| NUM/#    | NUMBER                              |
| NOM      | NOMINAL                             |
| OC       | ON CENTER                           |
| OCEW     | ON CENTER EACH WAY                  |
| OD       | OUTSIDE DIAMETER                    |
| PCF      | POUNDS PER CUBIC FOOT               |
| PSF      | POUNDS PER SQUARE FOOT              |
| PV       | PLUG VALVE                          |
| PSI      | POUNDS PER SQUARE INCH              |
| PVC      | POLYVINYL CHLORIDE                  |
| POLY, PE | POLYETHYLENE                        |
| PAVT     | PAVEMENT                            |
| PC       | POINT OF CURVATURE                  |
| PGL      | PROPOSED GRADE LINE                 |
| PLG      | PROPERTY LINE                       |
| PLWD     | PLYWOOD                             |
| PW       | POTABLE WATER                       |
| PT       | POINT OF TANGENCY                   |
| PUE      | PUBLIC UTILITY EASEMENT             |
| PVI      | POINT OF VERTICAL INTERSECTION      |
| QUAN     | QUANTITY                            |
| R        | RADIUS                              |
| RD       | ROAD                                |
| RCP      | REINFORCED CONCRETE PIPE            |
| REQ'D    | REQUIRED                            |
| ROW      | RIGHT OF WAY                        |
| RU       | REUSE LINE                          |
| R/W      | RIGHT OF WAY                        |
| S        | SOUTH                               |
| SE       | SOUTHEAST                           |
| SW       | SOUTHWEST                           |
| SS       | SANITARY SEWER                      |
| SAN      | SANITARY                            |
| SCH      | SCHEDULE                            |
| SECT     | SECTION                             |
| SEW      | SEWER                               |
| SH       | SHEET                               |
| SPEC     | SPECIFICATION                       |
| SQ       | SQUARE                              |
| ST       | STREET                              |
| STA      | STATION                             |
| STL      | STEEL                               |
| STD      | STANDARD                            |
| SUR      | SURFACE                             |
| SYM      | SYMMETRICAL                         |
| TOE      | TOE OF SLOPE                        |
| TOB      | TOP OF BANK                         |
| THK      | THICK                               |
| TEL      | TELEPHONE                           |
| TEMP     | TEMPERATURE                         |
| TRANS    | TRANSFORMER                         |
| TYP      | TYPICAL                             |
| UE       | UTILITY EASEMENT                    |
| VERT     | VERTICAL                            |
| W        | WATER                               |
| WM       | WATER MAIN                          |
| W/       | WITH                                |
| W/O      | WITHOUT                             |
| WD       | WOOD                                |
| WT       | WEIGHT                              |
| WV       | WATER VALVE                         |
| WH       | WALL HYDRANT                        |

**SYMBOLS**

|  |  |  |  |
|--|--|--|--|
|  | GATE VALVE                             |  | IRRIGATION SERVICE (DOUBLE)            |
|  | TEE ASSEMBLY                           |  | IRRIGATION SERVICE (SINGLE)            |
|  | REDUCER                                |  | SEWER SERVICE (DOUBLE)                 |
|  | BLOW OFF                               |  | SEWER SERVICE (SINGLE)                 |
|  | FIRE HYDRANT                           |  | WATER SERVICE (DOUBLE)                 |
|  | FIRE HYDRANT ASSEMBLY W/<br>GATE VALVE |  | WATER SERVICE (SINGLE)                 |
|  | MITERED END SECTION                    |  | HEADWALL                               |
|  | MANHOLE W/ NUMBER                      |  | DRAINAGE INLET<br>(SEE PLAN FOR TYPES) |
|  | PLUG VALVE                             |  | THROAT INLET                           |
|  |  |  | FLARED END SECTION                     |

**HATCH PATTERNS**

|  |                 |  |  |
|--|-----------------|--|--|
|  | WETLAND         |  | EXISTING LAKE<br>TO BE FILLED          |
|  | UPLAND BUFFER   |  | PROPOSED LAKE                          |
|  | UPLAND PRESERVE |  | LITTORAL SHELF AREA                    |
|  | INDIGENOUS AREA |  | COMPENSATING LITTORAL<br>PLANTING AREA |
|  | NATURAL AREA    |  | RIPRAP / GRAVEL                        |
|  | FILTER MARSH    |  | BRICK PAVERS                           |
|  | EXISTING LAKE   |  |  |

**NOTE:**  
HATCH PATTERNS ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL HATCH PATTERNS ON DRAWING MAY VARY IN SCALE & ANGLE

**LINETYPES**

|                           | EXISTING | PROPOSED |
|---------------------------|----------|----------|
| RIGHT-OF-WAY LINE         | ---      | ---      |
| CENTER LINE               | ---      | ---      |
| LAKE MAINTENANCE EASEMENT | ---      | ---      |
| PUBLIC UTILITY EASEMENT   | ---      | ---      |
| DRAINAGE EASEMENT         | ---      | ---      |
| WETLAND BOUNDARY          | ---      | ---      |
| FORCE MAIN                | ---      | ---      |
| SANITARY SEWER            | ---      | ---      |
| WATER MAIN                | ---      | ---      |
| IRRIGATION MAIN           | ---      | ---      |
| RE-USE MAIN               | ---      | ---      |
| PERIMETER BERM            | ---      | ---      |
| FENCE LINE                | ---      | ---      |
| SILT FENCE                | ---      | ---      |
| BULKHEAD                  | ---      | ---      |
| STRUCTURAL BUFFER         | ---      | ---      |

**GENERAL NOTES:**

- ELEVATIONS REFERENCE TO NAVD 1988, CONVERSION TO NGVD 1929 IS: NAVD 1988 + 1.18 = NGVD 1929.
- THE GENERAL NOTES MUST BE PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN AND MUST BE REFERRED TO BY THE CONTRACTOR. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL THE GENERAL NOTES AND ALL OF THE PLANS SPECIFICATION NOTES.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS INCLUDED WITHIN THE PLAN SET AND SHOULD NOT SCALE OFF THE DRAWINGS DUE TO POTENTIAL PRINTING INACCURACIES. ALL DIMENSIONS ARE TO BE CHECKED AND CONFIRMED BY THE GENERAL CONTRACTOR PRIOR TO PREPARATION OF SHOP DRAWINGS, FABRICATION/ORDERING OF PARTS AND MATERIALS AND START OF SITE WORK.
- JOHNSON ENGINEERING, LLC. IS NOT RESPONSIBLE FOR AND HAVE NO CONTRACTUAL LEGAL OR OTHER RESPONSIBILITIES FOR JOB SITE SAFETY, JOB SITE SUPERVISION, OR ANYTHING RELATED TO THE SAME. JOHNSON ENGINEERING, INC. IS NOT RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES OR ANY JOB SITE CONDITIONS, AT ANY TIME.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS (LATEST EDITION), LEE COUNTY DEVELOPMENT STANDARDS AND SPECIFICATIONS AND LEE COUNTY UTILITIES REQUIREMENTS.
- CONTRACTOR SHALL RETAIN, ON THE WORK SITE, COPIES OF ANY PERMITS NECESSARY FOR CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED TREE REMOVAL PERMITS.
- THE SITE CONTRACTOR SHALL BECOME FAMILIAR WITH THE GEOTECHNICAL REPORT IF ONE WAS PREPARED. THE CONTRACTOR SHALL COMPLY WITH ALL THE SITE PREPARATION AND OTHER SITE RELATED ITEMS, RECOMMENDATIONS AND PROCEDURES.
- CONTRACTOR ACKNOWLEDGES THAT CONSTRUCTION SITE IS WITHIN A PUBLIC USE AREA AND SHALL MAINTAIN A SAFE AND SECURE WORK AREA.
- CONTRACTOR IS REQUIRED TO OBTAIN FROM THE ENGINEER AND OWNER WRITTEN APPROVAL FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
- EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
- ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE OWNER/ENGINEER WITHOUT DELAY.
- THE LOCATION OF EXISTING UTILITIES, PAVEMENT, VEGETATION, AND MISCELLANEOUS IMPROVEMENTS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- CONTRACTOR SHALL NOTIFY THE LEE COUNTY DIVISION OF DEVELOPMENT REVIEW A MINIMUM OF 72 HOURS PRIOR TO ALL REQUIRED INSPECTIONS.
- CONTRACTOR TO PROVIDE SILT FENCE AND OTHER APPROPRIATE MEASURES TO AFFECT THE FILTRATION OF SURFACE WATER FLOWS AND TO PROVIDE EROSION PROTECTION DURING CONSTRUCTION ACTIVITIES. PROTECTION IS TO BE MAINTAINED DURING THE CONSTRUCTION PERIOD UNTIL DISTURBED SOILS HAVE BEEN STABILIZED WITH VEGETATION OR SUITABLE EROSION PROTECTION TREATMENT.
- DURING CONSTRUCTION, GRATE INLET AND JUNCTION BOX OPENINGS SHALL BE COVERED WITH FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) TO PREVENT DEBRIS AND FILL FROM FALLING INTO THE INLET.
- CONTRACTOR SHALL USE DESIGNATED CONSTRUCTION ENTRANCES FOR EMPLOYEES AND DELIVERY OF MATERIALS.
- ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE SITE IS CLEAN ONCE CONSTRUCTION IS FINISHED.
- CONTRACTOR SHALL PROMPTLY REPORT ALL FIELD CHANGES TO THE ENGINEER.
- THE CONTRACTOR SHALL ACCURATELY PLOT THE LOCATIONS AND DEPTHS OF ALL IMPROVEMENTS INSTALLED ON A FINAL SET OF RECORDED DRAWINGS WHICH SHALL BE DELIVERED TO THE ENGINEER.
- CONTRACTOR SHALL INCORPORATE BEST MANAGEMENT PRACTICES TO PREVENT CONSTRUCTION DEBRIS, DUST, AND OTHER MATERIALS FROM LEAVING THE IMMEDIATE WORK AREA AND ENTERING LOCAL WATERS. THIS INCLUDES TURBIDITY CONTROLS AND MONITORING FOR IN-WATER WORK AND OTHER LAND-DISTURBING ACTIVITIES. TURBIDITY CONTROLS AND MONITORING SHALL BE IN ACCORDANCE WITH PROJECT PERMITS.
- ALL PILES SHALL ACHIEVE EMBEDMENT AS SHOWN IN PLANS.
- CONSTRUCTION OF BOARDWALK DESIGN MAY REQUIRE MINOR GRADING BY CONTRACTOR TO ACHIEVE DESIRED GRADES. CONTRACTOR MUST RECEIVE WRITTEN APPROVAL FROM ENGINEER PRIOR TO GRADING COMMENCEMENT.
- UNLESS OTHERWISE NOTED, PILES SHALL BE INSTALLED IN THE SAME LOCATIONS AS PREVIOUS PILES TO MINIMIZE ENVIRONMENTAL IMPACT.
- REMOVAL OF VEGETATION SHALL ONLY BE ALLOWED WITHIN BOARDWALK LIMITS. REMOVAL OF VEGETATION OUTSIDE BOARDWALK LIMITS SHALL REQUIRE PRIOR APPROVAL FROM COUNTY OR ENGINEER.
- ALL CONSTRUCTION MATERIALS SHALL BE PER PLAN DETAILS.
- ALL PILES SHALL BE CUT OFF BELOW DECK. WATERPROOF PILE TOPS WITH DENSO 35 TAPE.
- BEVEL TOP EDGE OF STANCHIONS, RAILS, AND DECKING TO REMOVE SHARP EDGES AND SPLINTERS.
- CONTRACTOR SHALL ENSURE RAILING IS FREE OF BURRS AND SHARP EDGES.
- CONTRACTOR SHALL CONDUCT CLEANUP ON A DAILY BASIS.
- CONTRACTOR SHALL NOT SAW CUT PLASTIC MATERIALS WITHIN PRESERVE AREA. ALL COMPOSITE DECK BOARDS SHALL BE CUT TO LENGTH OFFSITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A LOCAL BUILDING PERMIT AND A FLOODPLAIN PERMIT FROM THE LOCAL FLOODPLAIN ADMINISTRATOR, IF REQUIRED.

**SITE DEMOLITION:**

- ANY SITE DEMOLITION IS BASED ON AVAILABLE INFORMATION PROVIDED TO ENGINEER AND MAY NOT COVER ALL ASPECTS OF THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COVER ALL EXISTING INFRASTRUCTURE TO BE REMOVED IN THEIR DEMOLITION BUDGET.
- CONTRACTOR SHALL SUBMIT VERIFICATION OF COMPLIANCE THAT ALL DEMOLITION DEBRIS IS DISPOSED OF IN A MANNER CONSISTENT WITH FDEP REGULATIONS.

**EXISTING UTILITY NOTE:**

- CONTRACTOR TO CONTACT "SUNSHINE 811" FOR LOCATES TWO BUSINESS DAYS BEFORE YOU DIG, 1-800-432-4770. STATE, COUNTIES, AND CITIES ARE NOT PART OF THE ONE CALL SYSTEM. THEY MUST BE CALLED INDIVIDUALLY.

**ACCESSIBILITY DESIGN GUIDELINES:**

- ALL ACCESSIBLE (A.K.A. ADA) COMPONENTS AND ACCESSIBLE ROUTES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM THE MOST STRINGENT OF: (A) THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12101 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.); AND (B) ANY APPLICABLE LOCAL AND STATE GUIDELINES, AND ANY AND ALL AMENDMENTS TO BOTH, WHICH ARE IN EFFECT AT THE TIME OF CONSTRUCTION.

**GENERAL IN-WATER WORKING CONDITIONS:**

- ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION PROJECT SHALL ALWAYS OPERATE AT IDLE SPEED/NO WAKE WHILE IN THE IMMEDIATE PROJECT AREA.
- PRIOR TO INITIATING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL TURBIDITY CURTAINS.
- VESSELS SHALL NOT PROP- OR WHEEL-WASH.
- MANGROVES: NO IMPACT MAY BE MADE TO THE EXISTING MANGROVES IN THE PROJECT LOCATION.
- ALL ACTIVITIES MUST BE COMPLETED DURING DAYLIGHT HOURS.

**CONDITIONS FOR WORKING AROUND ANIMALS:**

- ALL PROJECT PERSONNEL SHALL BE EDUCATED ABOUT THE PRESENCE OF THE FOLLOWING SPECIES, AS WELL AS THE CONDITIONS FOR WORKING NEAR THESE SPECIES:
  - EASTERN INDIGO SNAKE
  - MANATEES
  - KEMP'S RIDLEY SEA TURTLE
  - HAWKSBILL SEA TURTLE
  - LOGSHELL SEA TURTLE
  - LEATHERBACK SEA TURTLE
  - GREEN SEA TURTLE
  - SMALLTOOTH SAWFISH
  - NASSAU GROUPE
  - GIANT MANTA RAY
  - QUEEN CONCH
- ALL PROJECT PERSONNEL SHOULD PROCEED WITH CAUTION WHEN WORKING WITHIN SMALL TOOTH SAWFISH CRITICAL HABITAT.
  - ANY COLLISION(S) WITH AND/OR INJURY TO ANY SEA TURTLE OR SAWFISH OCCURRING DURING THE CONSTRUCTION OF A PROJECT SHALL BE REPORTED IMMEDIATELY TO NMFS'S PROTECTED RESOURCES DIVISION (PRD) AT (1-727-824-5312) OR BY EMAIL TO TAKEREPORT.NMFS@NOAA.GOV AND SAJ-RD-ENFORCEMENT@USACE.ARMY.MIL.
- ALL ON-SITE PROJECT PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATER-RELATED ACTIVITIES FOR THE PRESENCE OF PROTECTED SPECIES. ALL PERSONNEL SHALL BE ADVISED THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARMING, HARASSING, OR KILLING ESA-LISTED SPECIES OR MARINE MAMMALS.
  - IF THE DETECTION OF SPECIES IS NOT POSSIBLE DURING CERTAIN WEATHER CONDITIONS (E.G., FOG, RAIN, WIND), THEN IN-WATER OPERATIONS WILL CEASE UNTIL WEATHER CONDITIONS IMPROVE AND DETECTION IS AGAIN FEASIBLE.
  - OPERATION OF ANY MECHANICAL CONSTRUCTION EQUIPMENT, INCLUDING VESSELS, SHALL CEASE IMMEDIATELY IF A LISTED SPECIES IS OBSERVED WITHIN A 50-FT RADIUS OF CONSTRUCTION EQUIPMENT AND SHALL NOT RESUME UNTIL THE SPECIES HAS DEPARTED THE AREA OF ITS OWN VOLITION.
  - IF ANY SEA TURTLES ARE SIGHTED, A MINIMUM DISTANCE OF 150 FT MUST BE MAINTAINED.
  - IF ANY OTHER MARINE MAMMALS SUCH AS DOLPHINS, WHALES, OR PORPOISES ARE SPOTTED A MINIMUM DISTANCE OF 300 FT MUST BE MAINTAINED.
- ALL PROJECT PERSONNEL SHALL BE INSTRUCTED ABOUT THE PRESENCE OF MANATEES AND MANATEE SPEED ZONES.
- CONTRACTOR SHALL COMPLY WITH THE STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE, REVISED AUGUST 2013 DOCUMENT.
- WHETHER OR NOT EASTERN INDIGO SNAKES ARE OBSERVED DURING CONSTRUCTION ACTIVITIES, A MONITORING REPORT SHOULD BE SUBMITTED TO THE APPROPRIATE USFWS FIELD OFFICE WITHIN 60 DAYS OF PROJECT COMPLETION. THE REPORT CAN BE SENT ELECTRONICALLY TO VEROBACH@fws.gov.
- THE FOLLOWING SIGNS SHALL BE POSTED BY CONTRACTOR DURING CONSTRUCTION:
  - SAVE SEA TURTLE/SAWFISH AND DOLPHIN SIGN (USACE)
  - INDIGO SNAKE POSTER (USFWS)
  - CAUTION BOATERS MANATEE SIGN (FWCC)
  - IDLE SPEED/NO WAKE MANATEE SIGN (FWCC)
- CONTRACTOR SHALL FOLLOW THE NOAA FISHERIES PROTECTED SPECIES CONSTRUCTION CONDITIONS.

**JOHNSON ENGINEERING**  
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FAX: (941) 505-1702

JORDAN LEVI VARBLE, PE  
FL License No. 81414



**MATANZAS PASS  
PRESERVE VARIOUS  
BOARDWALK REPAIRS  
LEE COUNTY, FLORIDA**

| NO. | REVISIONS DESCRIPTION | DATE |
|-----|-----------------------|------|
|     |                       |      |
|     |                       |      |
|     |                       |      |
|     |                       |      |
|     |                       |      |
|     |                       |      |
|     |                       |      |
|     |                       |      |
|     |                       |      |
|     |                       |      |
|     |                       |      |
|     |                       |      |

DATE: FEBRUARY 2025  
PROJECT NO. 20236180-000  
FILE NO. 19, 20-46-24  
SCALE: AS SHOWN

GENERAL NOTES & ABBREVIATIONS

SHEET NUMBER

**C02**



**MATANZAS PASS  
 PRESERVE VARIOUS  
 BOARDWALK REPAIRS  
 LEE COUNTY, FLORIDA**

1. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP.
2. CONTRACTOR MAY UTILIZE A PORTION OF THE EXISTING PARKING LOT FOR EQUIPMENT STAGING, IF NEEDED.
3. PARK VISITOR TRAFFIC TO OFFICE BUILDING SHALL BE MAINTAINED AT ALL TIMES.
4. CONTRACTOR TO SUBMIT MOT PLAN, SIGNED AND SEALED BY A LICENSED ENGINEER, TO OWNER FOR APPROVAL.

**LEGEND**

AREA TO REMAIN (MINOR REPAIRS)

AREA TO BE REPLACED

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |

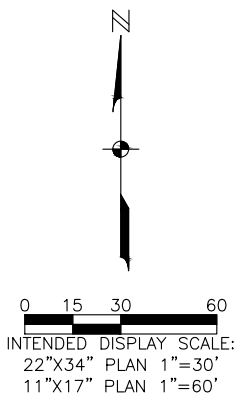
DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 19, 20-46-24  
 SCALE: AS SHOWN

AERIAL KEY MAP

SHEET NUMBER  
**C03**



MATANZAS PASS



1. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP
2. FLUCFCS INFORMATION FROM FDEP ERP NO. 0142992-003 EI

| FLUCFCS Code        | Description                     | Status | Area in Acres          |
|---------------------|---------------------------------|--------|------------------------|
| 612                 | Boardwalk in Mangrove Swamp     | W      | 1.38                   |
| 540                 | Over-Water Structures           | SW     | 0.13                   |
| 426                 | Boardwalk in Tropical Hardwoods | N      | 0.70                   |
| 180                 | Park Facilities / Parking       | N      | 0.31                   |
|                     |                                 |        | <b>Total Site</b> 2.52 |
| <b>Legend</b>       |                                 |        |                        |
| N = Non Wetlands    |                                 |        | <b>Total N</b> 1.01    |
| W = Wetlands        |                                 |        | <b>Total W</b> 1.38    |
| SW = Surface Waters |                                 |        | <b>Total SW</b> 0.13   |
| <b>Total Site</b>   |                                 |        | <b>2.52</b>            |

**JOHNSON ENGINEERING**  
— An Apex Company —  
JOHNSON ENGINEERING, LLC.  
2122 JOHNSON STREET  
FORT MYERS, FLORIDA 33901  
PHONE: (239) 334-0046  
E.R. #642 & L.B. #642

**WEILER ENGINEERING CORPORATION**  
— An Apex Company —  
**WEC**  
WEILER ENGINEERING CORP.  
201 WEST MARION AVENUE SUITE  
1306 PUNTA GORDA, FLORIDA 33950  
PHONE: (941) 505-1700  
FAX: (941) 505-1702

JORDAN LEVI VARBLE, PE  
FL License No. 81414



MATANZAS PASS  
PRESERVE VARIOUS  
BOARDWALK REPAIRS  
LEE COUNTY, FLORIDA

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
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DATE: FEBRUARY 2025  
PROJECT NO. 20236180-000  
FILE NO. 19, 20-46-24  
SCALE: AS SHOWN

FLUCFCS AND PSS  
MAP

SHEET NUMBER

**C04**

MATCHLINE (SEE SHEET C04)



0 15 30 60  
 INTENDED DISPLAY SCALE:  
 22"X34" PLAN 1"=30'  
 11"X17" PLAN 1"=60'

1. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP
2. FLUCFCS INFORMATION FROM FDEP ERP NO. 0142992-003 EI

W-2  
612  
0.02 A.C.

426

W-6  
612  
0.72 A.C.

W-1  
612  
0.02 A.C.

LIMITS OF CONSTRUCTION (TYP.)

180

426

| FLUCFCS Code        | Description                     | Status          | Area in Acres          |
|---------------------|---------------------------------|-----------------|------------------------|
| 612                 | Boardwalk in Mangrove Swamp     | W               | 1.38                   |
| 540                 | Over-Water Structures           | SW              | 0.13                   |
| 426                 | Boardwalk in Tropical Hardwoods | N               | 0.70                   |
| 180                 | Park Facilities / Parking       | N               | 0.31                   |
|                     |                                 |                 | <b>Total Site</b> 2.52 |
| <b>Legend</b>       |                                 |                 |                        |
| N = Non Wetlands    |                                 | <b>Total N</b>  | 1.01                   |
| W = Wetlands        |                                 | <b>Total W</b>  | 1.38                   |
| SW = Surface Waters |                                 | <b>Total SW</b> | 0.13                   |
| <b>Total Site</b>   |                                 |                 | 2.52                   |

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 1306 PUNTA GORDA, FLORIDA 33950  
 PHONE: (941) 505-1700  
 FAX: (941) 505-1702

JORDAN LEVI VARBLE, PE  
 FL License No. 81414



**MATANZAS PASS  
 PRESERVE VARIOUS  
 BOARDWALK REPAIRS  
 LEE COUNTY, FLORIDA**

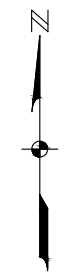
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DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 19, 20-46-24  
 SCALE: AS SHOWN

**FLUCFCS AND PSS  
 MAP**

SHEET NUMBER

**C05**



0 15 30 60  
 INTENDED DISPLAY SCALE:  
 22"X34" PLAN 1"=30'  
 11"X17" PLAN 1"=60'

1. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP
2. FLUCFCS INFORMATION FROM FDEP ERP NO. 0142992-003 EI

**JOHNSON ENGINEERING**  
 — An Apex Company —  
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 2122 JOHNSON STREET  
 FORT MYERS, FLORIDA 33901  
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 E.R. #642 & L.B. #642

---

**WEILER ENGINEERING CORPORATION**  
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**WEC**  
 WEILER ENGINEERING CORP.  
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 1306 PUNTA GORDA, FLORIDA 33950  
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 FAX: (941) 505-1702

JORDAN LEVI VARBLE, PE  
 FL License No. 81414



**MATANZAS PASS  
 PRESERVE VARIOUS  
 BOARDWALK REPAIRS  
 LEE COUNTY, FLORIDA**

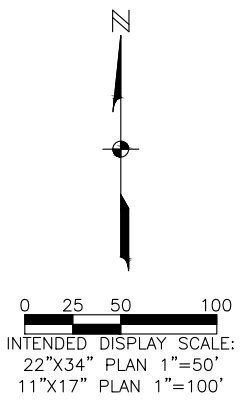
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DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 19, 20-46-24  
 SCALE: AS SHOWN

| FLUCFCS Code        | Description                     | Status | Area in Acres |
|---------------------|---------------------------------|--------|---------------|
| 612                 | Boardwalk in Mangrove Swamp     | W      | 1.38          |
| 540                 | Over-Water Structures           | SW     | 0.13          |
| 426                 | Boardwalk in Tropical Hardwoods | N      | 0.70          |
| 180                 | Park Facilities / Parking       | N      | 0.31          |
| Total Site          |                                 |        | 2.52          |
| Legend              |                                 |        |               |
| N = Non Wetlands    |                                 |        | Total N 1.01  |
| W = Wetlands        |                                 |        | Total W 1.38  |
| SW = Surface Waters |                                 |        | Total SW 0.13 |
| Total Site          |                                 |        | 2.52          |

**FLUCFCS AND PSS  
 MAP**

SHEET NUMBER  
**C06**



INTENDED DISPLAY SCALE:  
 22"X34" PLAN 1"=50'  
 11"X17" PLAN 1"=100'

1. PARCEL LINES OBTAINED FROM  
 LEE COUNTY PROPERTY  
 APPRAISER GIS MAP

| NRCS SOILS |   |               |
|------------|---|---------------|
| Soil ID    | Description   | Hydric Status |
| 4          | Canaveral Fine Sand - Urban Land Complex, 0 to 2 percent slopes | Non-Hydric    |
| 5          | Captiva Fine Sand, frequently ponded, 0 to 1 percent slopes     | Hydric        |
| 24         | Kesson Fine Sand, tidal, 0 to 1 percent slopes                  | Hydric        |
| 100        | Waters of the Gulf of Mexico                                    |               |

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 FL License No. 81414



**MATANZAS PASS  
 PRESERVE VARIOUS  
 BOARDWALK REPAIRS  
 LEE COUNTY, FLORIDA**

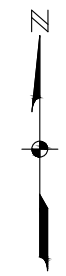
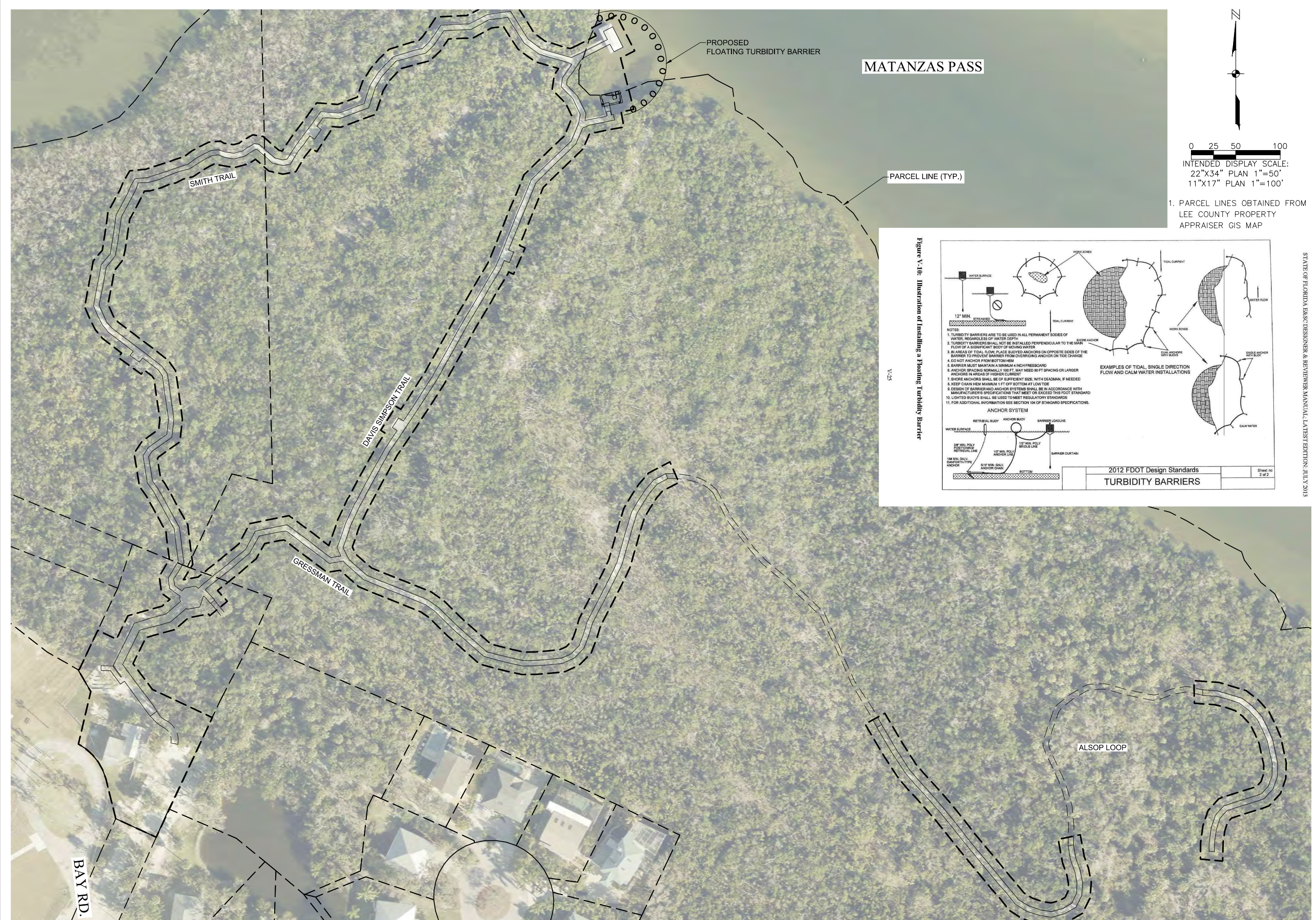
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DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 19, 20-46-24  
 SCALE: AS SHOWN

**SOILS MAP**

SHEET NUMBER

**C07**



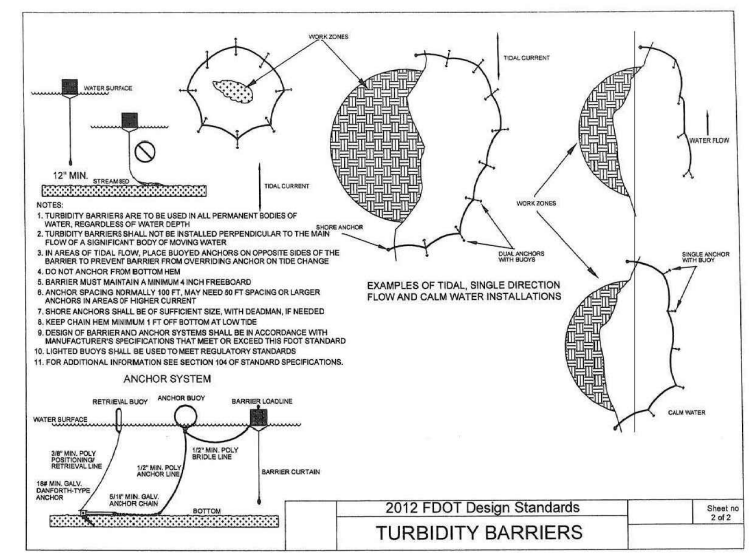
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 INTENDED DISPLAY SCALE:  
 22"X34" PLAN 1"=50'  
 11"X17" PLAN 1"=100'

1. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP

MATANZAS PASS

PARCEL LINE (TYP.)

Figure V-10: Illustration of Installing a Floating Turbidity Barrier  
 V-25



2012 FDOT Design Standards  
 TURBIDITY BARRIERS  
 Sheet no 2 of 2

**JOHNSON ENGINEERING**  
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STATE OF FLORIDA EROSION DESIGNER & REVIEWER MANUAL, LATEST EDITION, JULY 2018



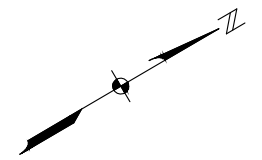
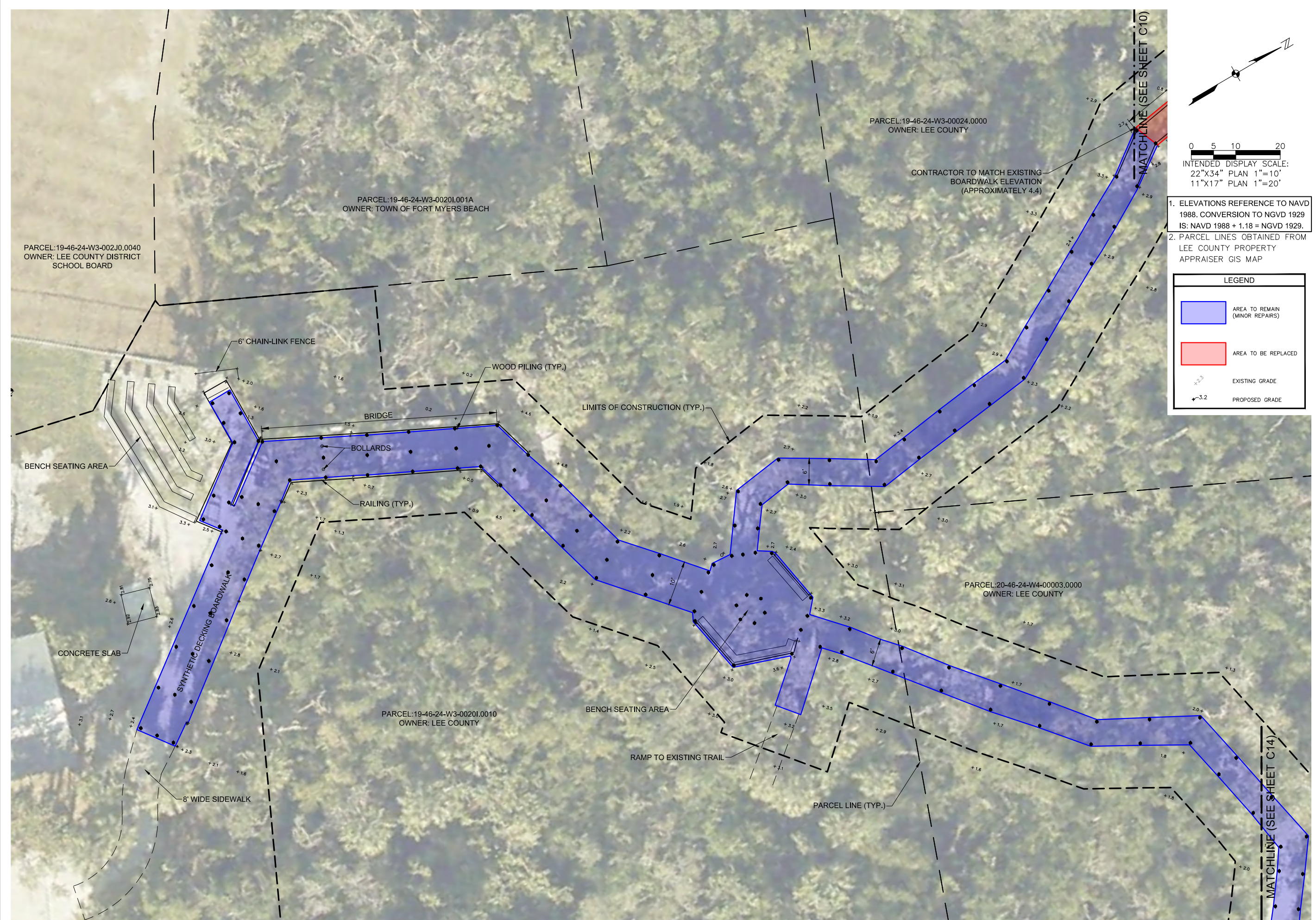
MATANZAS PASS  
 PRESERVE VARIOUS  
 BOARDWALK REPAIRS  
 LEE COUNTY, FLORIDA

| NO. | DESCRIPTION | DATE |
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DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 19, 20-46-24  
 SCALE: AS SHOWN

EROSION CONTROL PLAN

SHEET NUMBER  
**C08**



0 5 10 20  
 INTENDED DISPLAY SCALE:  
 22"x34" PLAN 1"=10'  
 11"x17" PLAN 1"=20'

1. ELEVATIONS REFERENCE TO NAVD 1988. CONVERSION TO NGVD 1929 IS: NAVD 1988 + 1.18 = NGVD 1929.
2. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP

**LEGEND**

- AREA TO REMAIN (MINOR REPAIRS)
- AREA TO BE REPLACED
- EXISTING GRADE
- PROPOSED GRADE

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**MATANZAS PASS  
 PRESERVE VARIOUS  
 BOARDWALK REPAIRS  
 LEE COUNTY, FLORIDA**

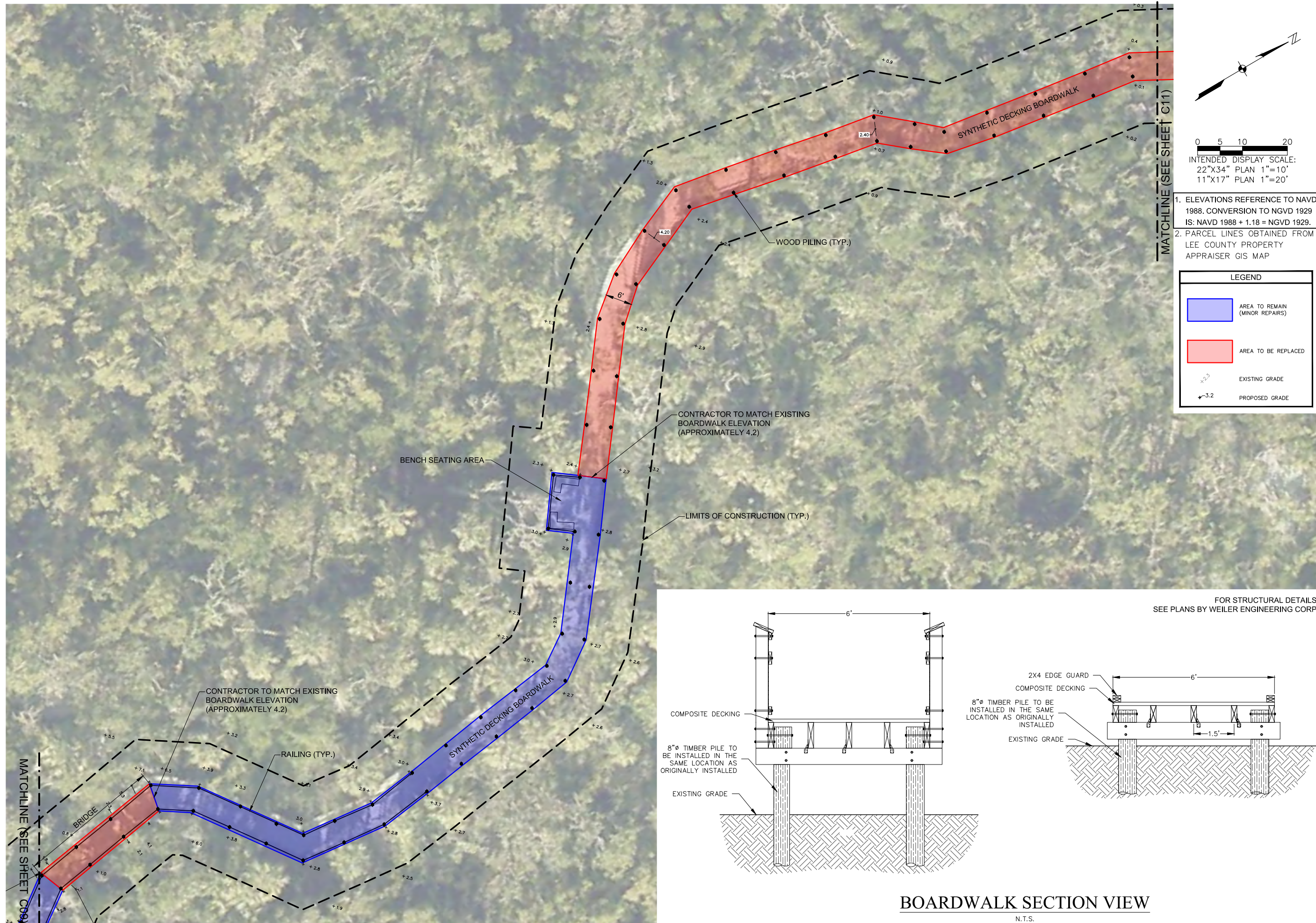
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DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 19\_20-46-24  
 SCALE: AS SHOWN

SITE PLAN

SHEET NUMBER

**C09**



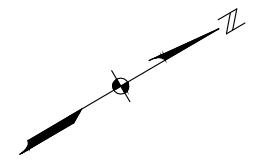
1. ELEVATIONS REFERENCE TO NAVD 1988. CONVERSION TO NGVD 1929 IS: NAVD 1988 + 1.18 = NGVD 1929.  
 2. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP



**MATANZAS PASS PRESERVE VARIOUS BOARDWALK REPAIRS LEE COUNTY, FLORIDA**

| NO. | REVISIONS DESCRIPTION | DATE |
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|     |                       |      |
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DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 19\_20-46-24  
 SCALE: AS SHOWN



0 5 10 20  
 INTENDED DISPLAY SCALE:  
 22"x34" PLAN 1"=10'  
 11"x17" PLAN 1"=20'

1. ELEVATIONS REFERENCE TO NAVD 1988. CONVERSION TO NGVD 1929 IS: NAVD 1988 + 1.18 = NGVD 1929.
2. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP

**LEGEND**

- AREA TO REMAIN (MINOR REPAIRS)
- AREA TO BE REPLACED
- EXISTING GRADE
- PROPOSED GRADE

MATCHLINE (SEE SHEET C10)

MATCHLINE (SEE SHEET C12)

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**MATANZAS PASS  
 PRESERVE VARIOUS  
 BOARDWALK REPAIRS  
 LEE COUNTY, FLORIDA**

| NO. | REVISIONS DESCRIPTION | DATE |
|-----|-----------------------|------|
|     |                       |      |
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DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 19, 20-46-24  
 SCALE: AS SHOWN

SITE PLAN

SHEET NUMBER

**C11**

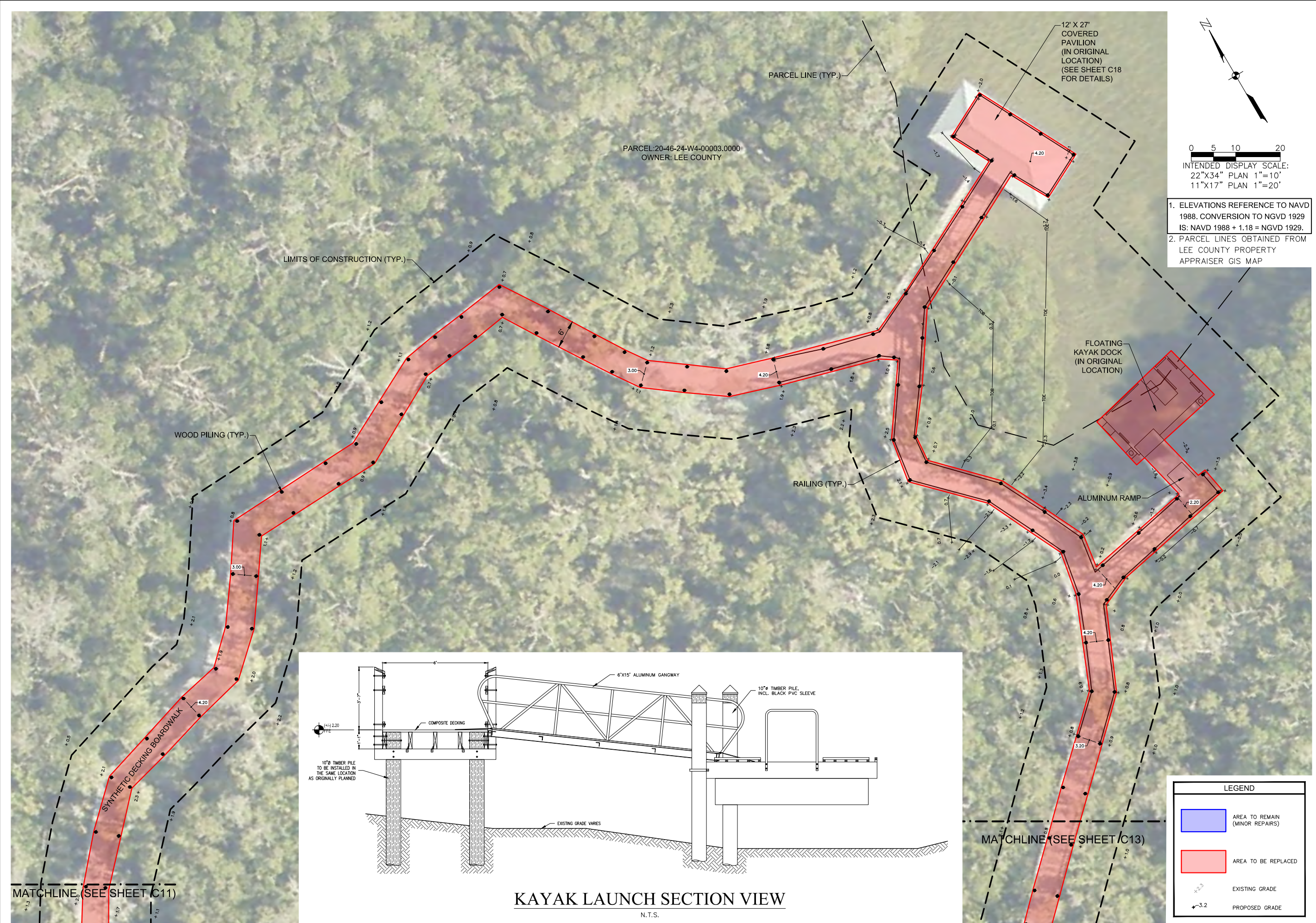
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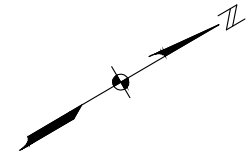
DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 19, 20-46-24  
 SCALE: AS SHOWN

SITE PLAN

SHEET NUMBER

**C12**





0 5 10 20  
INTENDED DISPLAY SCALE:  
22"x34" PLAN 1"=10'  
11"x17" PLAN 1"=20'

1. ELEVATIONS REFERENCE TO NAVD 1988. CONVERSION TO NGVD 1929 IS: NAVD 1988 + 1.18 = NGVD 1929.
2. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP



| LEGEND   |                                |
|--|--------------------------------|
| <span style="display: inline-block; width: 20px; height: 10px; background-color: #ADD8E6; border: 1px solid black;"></span>  | AREA TO REMAIN (MINOR REPAIRS) |
| <span style="display: inline-block; width: 20px; height: 10px; background-color: #FF6347; border: 1px solid black;"></span>  | AREA TO BE REPLACED            |
| <span style="display: inline-block; width: 0; height: 0; border-left: 5px solid transparent; border-right: 5px solid transparent; border-bottom: 8px solid black;"></span> | EXISTING GRADE                 |
| <span style="display: inline-block; width: 0; height: 0; border-left: 5px solid transparent; border-right: 5px solid transparent; border-bottom: 8px solid red;"></span>   | PROPOSED GRADE                 |



**MATANZAS PASS PRESERVE VARIOUS BOARDWALK REPAIRS LEE COUNTY, FLORIDA**

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
|     |             |      |
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DATE: FEBRUARY 2025  
PROJECT NO. 20236180-000  
FILE NO. 19, 20-46-24  
SCALE: AS SHOWN

SITE PLAN

SHEET NUMBER

**C13**

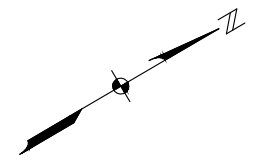
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DATE: FEBRUARY 2025  
PROJECT NO. 20236180-000  
FILE NO. 19, 20-46-24  
SCALE: AS SHOWN

SITE PLAN

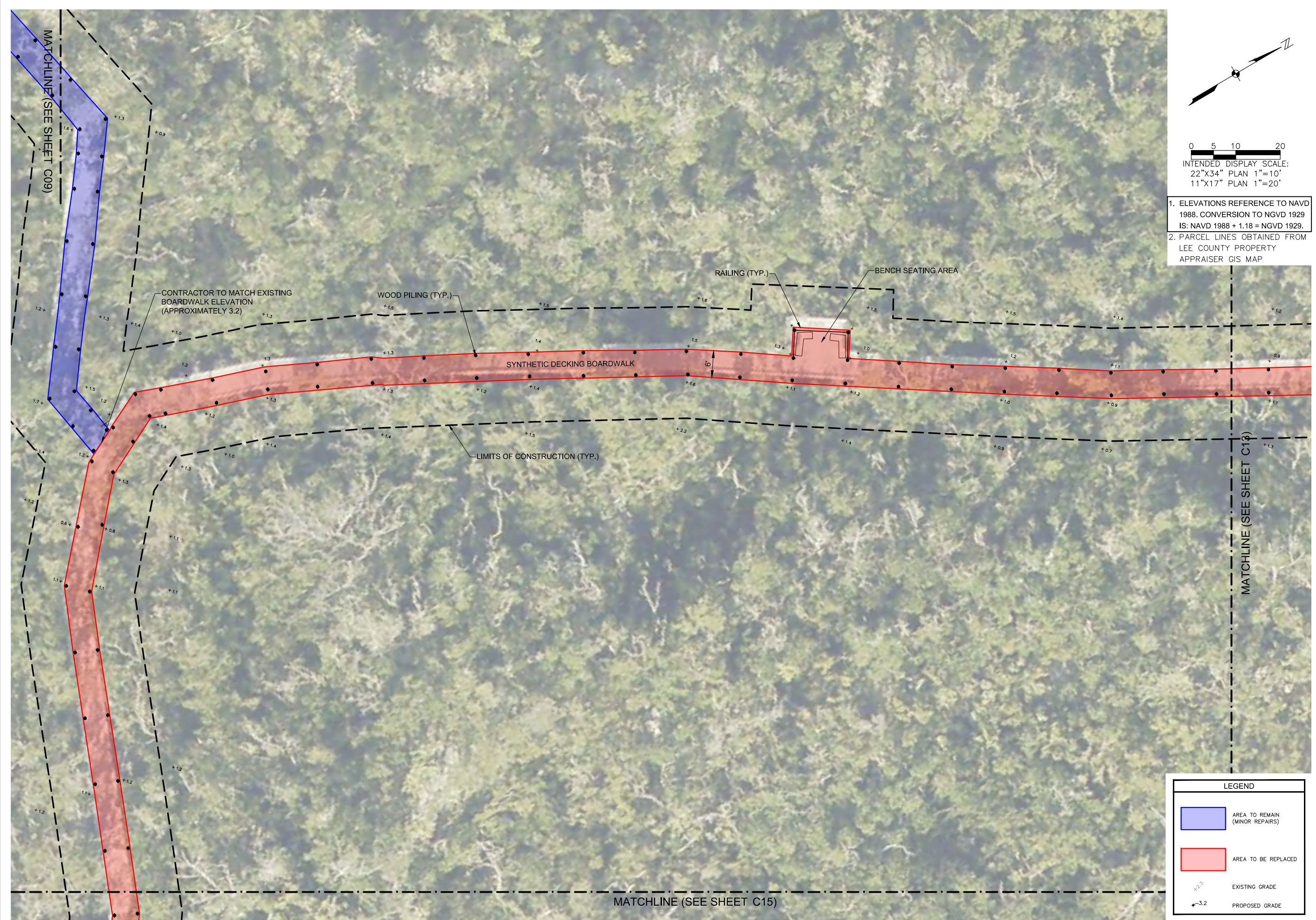
SHEET NUMBER

**C14**



0 5 10 20  
INTENDED DISPLAY SCALE:  
22"X34" PLAN 1"=10'  
11"X17" PLAN 1"=20'

1. ELEVATIONS REFERENCE TO NAVD 1988. CONVERSION TO NGVD 1929 IS: NAVD 1988 + 1.18 = NGVD 1929.
2. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP



**LEGEND**

|  |                                |
|--|--------------------------------|
|  | AREA TO REMAIN (MINOR REPAIRS) |
|  | AREA TO BE REPLACED            |
|  | EXISTING GRADE                 |
|  | PROPOSED GRADE                 |





1. ELEVATIONS REFERENCE TO NAVD 1988. CONVERSION TO NGVD 1929 IS: NAVD 1988 + 1.18 = NGVD 1929.
2. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP

| LEGEND  |                                |
|---|--------------------------------|
| <span style="display:inline-block; width:15px; height:15px; background-color:blue; border:1px solid black;"></span> | AREA TO REMAIN (MINOR REPAIRS) |
| <span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span>  | AREA TO BE REPLACED            |
| <span style="display:inline-block; width:15px; height:15px; border-bottom:1px dashed black;"></span>                | EXISTING GRADE                 |
| <span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid black;"></span>                 | PROPOSED GRADE                 |

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**MATANZAS PASS  
 PRESERVE VARIOUS  
 BOARDWALK REPAIRS  
 LEE COUNTY, FLORIDA**

| NO. | DESCRIPTION | DATE |
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DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 19, 20-46-24  
 SCALE: AS SHOWN

**SITE PLAN**

SHEET NUMBER

**C16**



0 5 10 20  
 INTENDED DISPLAY SCALE:  
 22"X34" PLAN 1"=10'  
 11"X17" PLAN 1"=20'

1. ELEVATIONS REFERENCE TO NAVD 1988. CONVERSION TO NGVD 1929 IS: NAVD 1988 + 1.18 = NGVD 1929.
2. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP

| LEGEND  |                                |
|---|--------------------------------|
| <span style="display: inline-block; width: 20px; height: 10px; background-color: #ADD8E6; border: 1px solid black;"></span> | AREA TO REMAIN (MINOR REPAIRS) |
| <span style="display: inline-block; width: 20px; height: 10px; background-color: #FF6347; border: 1px solid black;"></span> | AREA TO BE REPLACED            |
| $+1.3$  | EXISTING GRADE                 |
| $\blacktriangle -3.2$   | PROPOSED GRADE                 |



**MATANZAS PASS  
 PRESERVE VARIOUS  
 BOARDWALK REPAIRS  
 LEE COUNTY, FLORIDA**

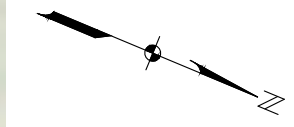
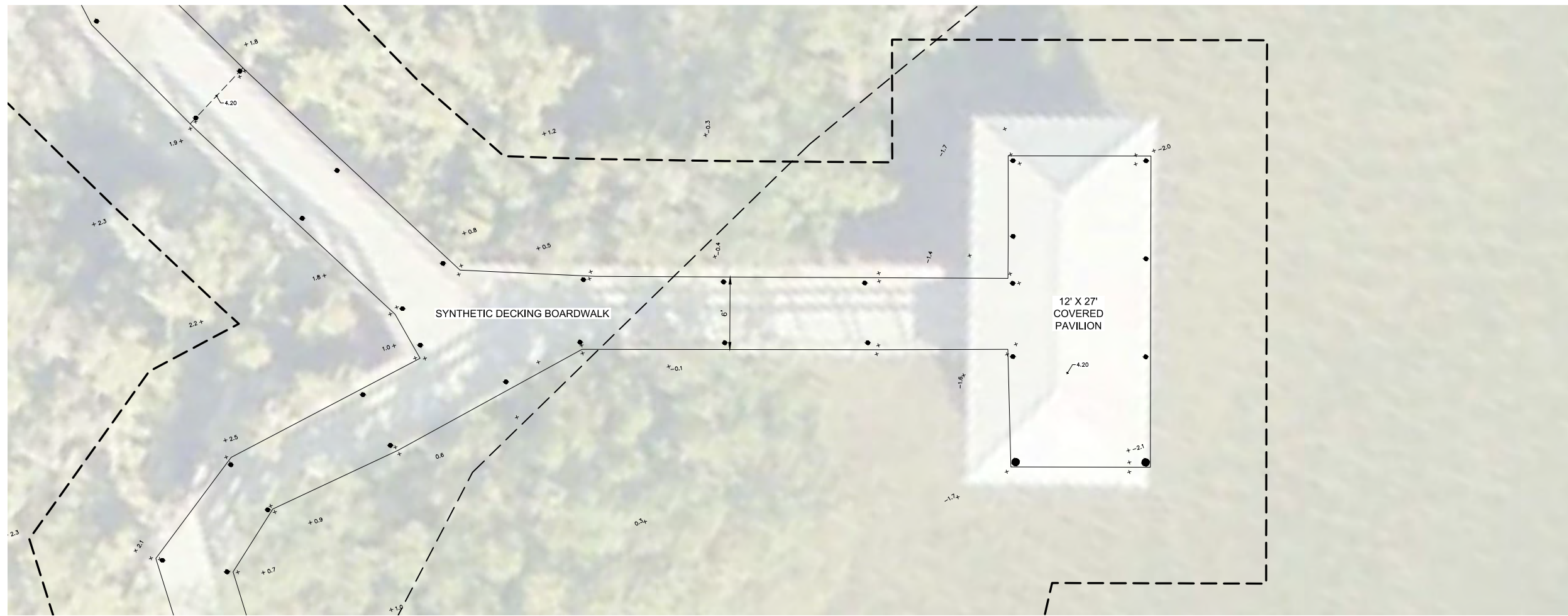
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DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 19, 20-46-24  
 SCALE: AS SHOWN

SITE PLAN

SHEET NUMBER

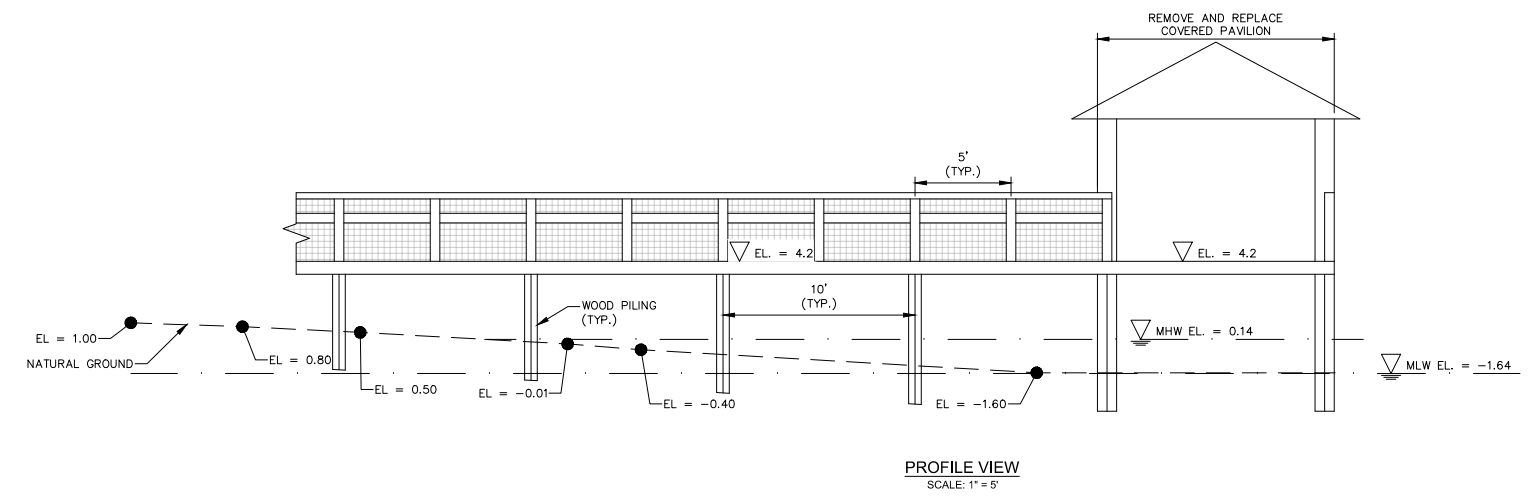
**C17**



0 2 5 10  
 INTENDED DISPLAY SCALE:  
 22"X34" PLAN 1"=5'  
 11"X17" PLAN 1"=10'

1. ELEVATIONS REFERENCE TO NAVD 1988. CONVERSION TO NGVD 1929 IS: NAVD 1988 + 1.18 = NGVD 1929.
2. PARCEL LINES OBTAINED FROM LEE COUNTY PROPERTY APPRAISER GIS MAP
3. TIDAL DATA PER TIDE INTERPOLATION POINT NO. 1213, ACCESSED FROM LABINS JUNE, 2024
4. FOR STRUCTURAL DETAILS, SEE PLANS BY WEILER ENGINEERING CORP.

| LEGEND |                |
|--------|----------------|
|        | EXISTING GRADE |
|        | PROPOSED GRADE |



PROFILE VIEW  
 SCALE: 1"=5'

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 FL License No. 81414



**MATANZAS PASS  
 PRESERVE VARIOUS  
 BOARDWALK REPAIRS  
 LEE COUNTY, FLORIDA**

| NO. | REVISIONS DESCRIPTION | DATE |
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|     |                       |      |
|     |                       |      |

DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
 FILE NO. 19, 20-46-24  
 SCALE: AS SHOWN

**PLAN & PROFILE**

SHEET NUMBER

**C18**



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL MARINE FISHERIES SERVICE  
Southeast Regional Office  
263 13th Avenue South  
St. Petersburg, FL 33701

**SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS**

The permittee shall comply with the following protected species construction conditions:

- a. The permittee shall instruct all personnel associated with the project of the potential presence of these species and the need to avoid collisions with sea turtles and smalltooth sawfish. All construction personnel are responsible for observing water-related activities for the presence of these species.
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing sea turtles or smalltooth sawfish, which are protected under the Endangered Species Act of 1973.
- c. Siltation barriers shall be made of material in which a sea turtle or smalltooth sawfish cannot become entangled, be properly secured, and be regularly monitored to avoid protected species entrapment. Barriers may not block sea turtle or smalltooth sawfish entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.
- d. All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water depths where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will preferentially follow deep-water routes (e.g., marked channels) whenever possible.
- e. If a sea turtle or smalltooth sawfish is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish. Operation of any mechanical construction equipment shall cease immediately if a sea turtle or smalltooth sawfish is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.
- f. Any collision with and/or injury to a sea turtle or smalltooth sawfish shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.
- g. Any special construction conditions, required of your specific project, outside these general conditions, if applicable, will be addressed in the primary consultation.

Revised: March 23, 2006  
O:\forms\Sea Turtle and Smalltooth Sawfish Construction Conditions.doc



**STANDARD MANATEE CONDITIONS FOR IN-WATER WORK**  
2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. 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.
- b. 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.
- c. 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.
- d. 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.
- e. 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 Vero Beach (1-772-562-3909) for south Florida, and to FWC at [ImperiledSpecies@myFWC.com](mailto:ImperiledSpecies@myFWC.com)
- f. 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 [MyFWC.com/manatee](http://MyFWC.com/manatee). Questions concerning these signs can be sent to the email address listed above.

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MATANZAS PASS  
PRESERVE VARIOUS  
BOARDWALK REPAIRS  
LEE COUNTY, FLORIDA

| NO. | DESCRIPTION | DATE |
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DATE: FEBRUARY 2025  
PROJECT NO. 20236180-000  
FILE NO. 19, 20-46-24  
SCALE: AS SHOWN

ENVIRONMENTAL  
PROTECTION  
DETAILS

SHEET NUMBER

**C19**