

# CONSTRUCTION PLANS

## FOR



# CALOOSAHATCHEE REGIONAL PARK VARIOUS BOARDWALK REPAIRS

## FEMA DI : 1305710

## FEMA PROJECT # : 719522

### SECTION 19, TOWNSHIP 43 S., RANGE 27 E.

### LEE COUNTY, FLORIDA

#### OWNER

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

#### SITE ADDRESS

18500 N RIVER RD,  
ALVA, FL 33920

#### STRAP NUMBERS

19-43-27-00-00001.0000  
19-43-27-00-00001.0040

#### SIZE OF PARCEL

239.91 ACRES

#### ZONING

AG-2

#### BOARD OF COUNTY COMMISSIONERS

KEVIN RUANE	DISTRICT 1
CECIL PENDERGRASS	DISTRICT 2
DAVE 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  
FAX: (941) 505-1702



— An Apex Company —

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

REGISTERED PROFESSIONAL ENGINEER  
FLORIDA LICENSE NO. 81414

JORDAN LEVI VARBLE, PE

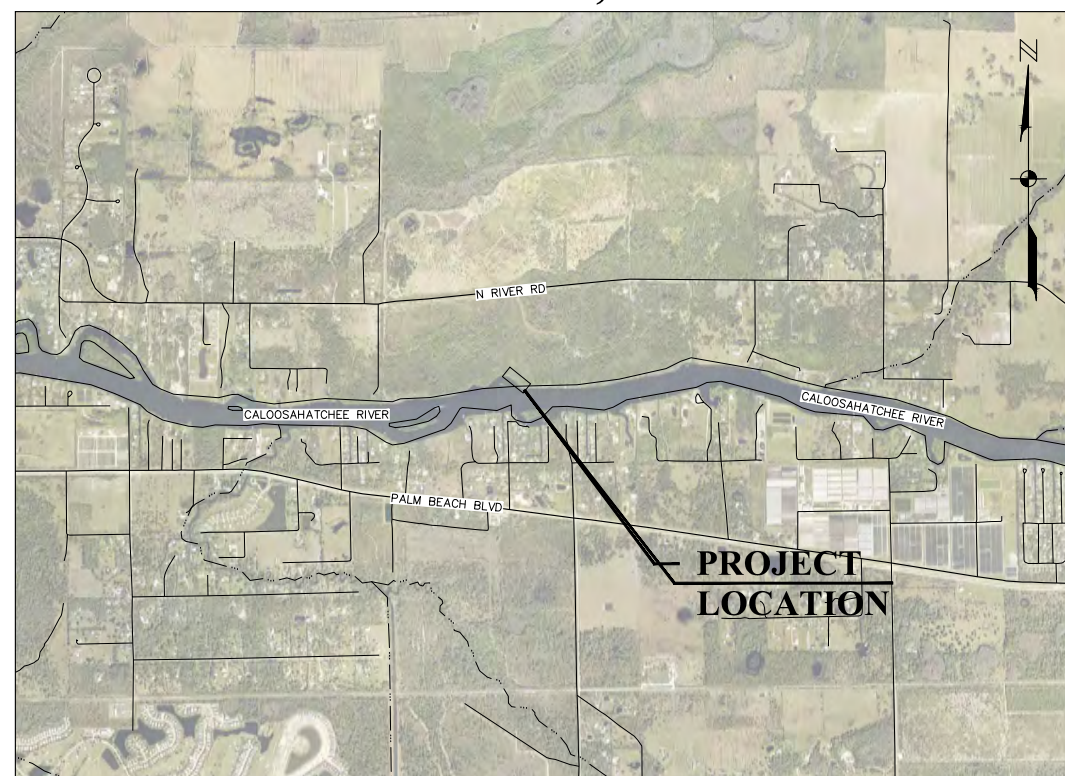
DATE



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.

#### INDEX OF PLANS

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C07	SITE PLAN & PAVING, GRADING, AND DRAINAGE PLAN



#### LOCATION MAP

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

FEBRUARY 2025

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.

**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	ELLIPITICAL REINFORCED CONCRETE PIPE
ESMT	EASEMENT
EX	EXISTING
FF	FINISHED FLOOR
FFE	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
HYD	HYDRANT
ID	INSIDE DIAMETER
IDD	IONA DRAINAGE DISTRICT
INV	INVERT
IRR	IRRIGATION
LAE	LAKE ACCESS EASEMENT
LOCUE	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	NATURAL GAS ON CENTERS
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OCF	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
PLB	PROPERTY LINE
PLBG	PLUMBING
PLWD	PLYWOOD
PW	POTABLE WATER
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVI	POINT OF VERTICAL INTERSECTION
QJAN	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/ GATE VALVE		WATER SERVICE (SINGLE)
	MITERED END SECTION		HEADWALL
	MANHOLE W/ NUMBER		DRAINAGE INLET (SEE PLAN FOR TYPES)
	PLUG VALVE		THROAT INLET
			FLARED END SECTION

**HATCH PATTERNS**

	WETLAND		EXISTING LAKE TO BE FILLED
	UPLAND BUFFER		PROPOSED LAKE
	UPLAND PRESERVE		LITTORAL SHELF AREA
	INDIGENOUS AREA		COMPENSATING LITTORAL 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 + 1.25 = 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.

**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.

**CONDITIONS FOR WORKING AROUND ANIMALS:**

- CONTRACTOR SHALL COMPLY WITH THE STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE, REVISED AUGUST 2013 DOCUMENT.

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

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**WEC**  
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FL License No. 81414



CALOOSAHATCHEE REGIONAL PARK  
VARIOUS BOARDWALK REPAIRS  
LEE COUNTY, FLORIDA

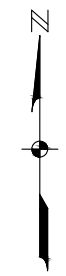
NO.	REVISIONS DESCRIPTION	DATE

DATE: FEBRUARY 2025  
PROJECT NO. 20236180-000  
FILE NO. 19-43-27  
SCALE: AS SHOWN

**GENERAL NOTES & ABBREVIATIONS**

SHEET NUMBER

**C02**



0 50 100 200  
 INTENDED DISPLAY SCALE:  
 22"X34" PLAN 1"=100'  
 11"X17" PLAN 1"=200'

1. C-43 R/W LINE FROM 1991 BOUNDARY SURVEY BY JOHNSON ENGINEERING, INC.
2. CONTRACTOR MAY UTILIZE A PORTION OF THE EXISTING PARKING LOT FOR EQUIPMENT STAGING, IF NEEDED.
3. PARK VISITOR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.
4. CONTRACTOR TO SUBMIT MOT PLAN, SIGNED AND SEALED BY A LICENSED ENGINEER, TO OWNER FOR APPROVAL.

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**CALOOSAHATCHEE REGIONAL PARK VARIOUS BOARDWALK REPAIRS**  
 LEE COUNTY, FLORIDA

NO.	DESCRIPTION	DATE

DATE: FEBRUARY 2025  
 PROJECT NO. 20236180-000  
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AERIAL KEY MAP  
 SHEET NUMBER  
**C03**



CALOOSAHATCHEE RIVER



0 25 50 100  
 INTENDED DISPLAY SCALE:  
 22"X34" PLAN 1"=50'  
 11"X17" PLAN 1"=100'

1. FLUCFCS MAPPING OBTAINED FROM CRP LAND STEWARDSHIP PLAN, WITH FIELD OBSERVATIONS CONDUCTED BY JEI ON JANUARY 11, 2024

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 VARIOUS BOARDWALK REPAIRS  
 LEE COUNTY, FLORIDA

NO.	DESCRIPTION	DATE

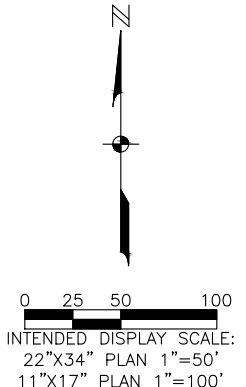
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FLUCFCS Code	Description	Status	Area in Acres
617	Mixed Wetland Hardwoods	W	0.19
<b>Total Site</b>			<b>0.19</b>
<b>Legend</b>			
N = Non Wetlands			<b>Total N</b> 0
W = Wetlands			<b>Total W</b> 0.19
SW = Surface Waters			<b>Total SW</b> 0
<b>Total Site</b>			<b>0.19</b>

FLUCFCS MAP

SHEET NUMBER

**C04**



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

1. C-43 R/W LINE FROM 1991  
 BOUNDARY SURVEY BY  
 JOHNSON ENGINEERING, INC.

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 LEE COUNTY, FLORIDA

NO.	DESCRIPTION	DATE

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SOILS MAP

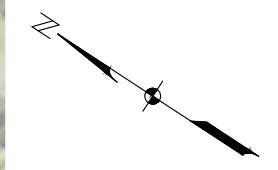
SHEET NUMBER

**C05**

NRCS SOILS		
Soil ID	Description	Hydric Status
45	Copeland Fine Sandy Loam, frequently ponded, 0 to 1 percent slopes	Hydric



CO6: VIEW A



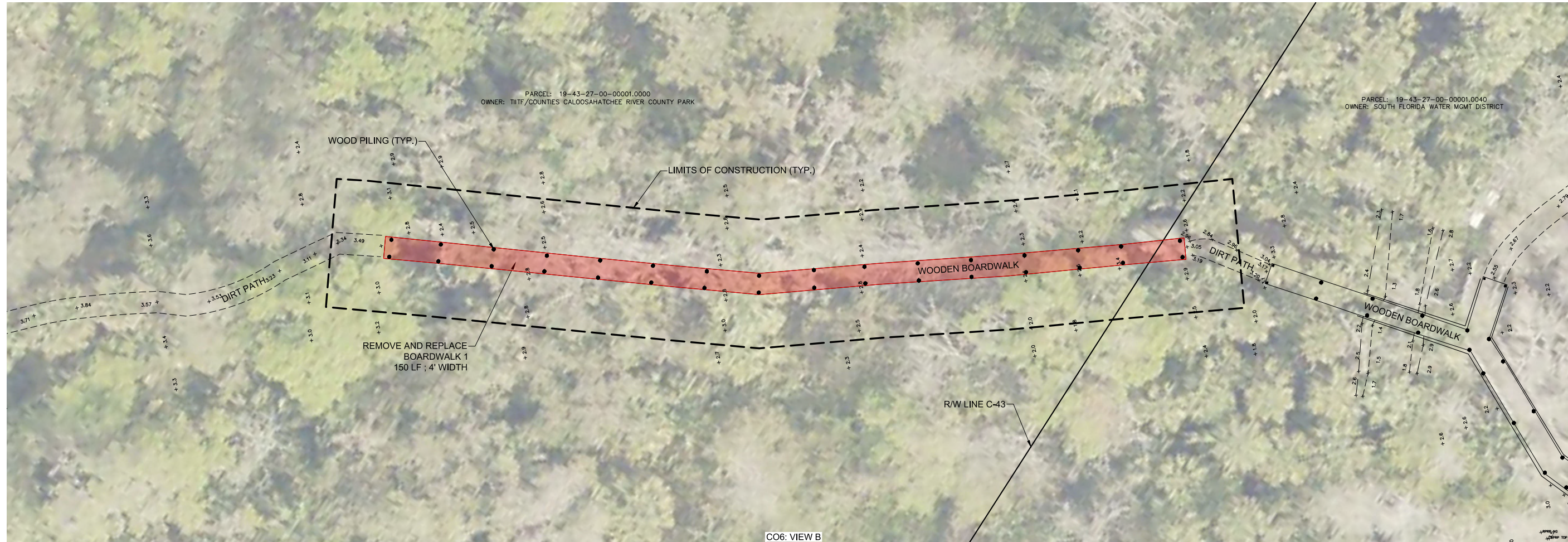
0 5 10 20  
 INTENDED DISPLAY SCALE:  
 22"X34" PLAN 1"=10'  
 11"X17" PLAN 1"=20'

1. ELEVATIONS REFERENCE TO NAVD 1988. CONVERSION TO NGVD 1929 IS: NAVD 1988 + 1.25 = NGVD 1929.
2. C-43 R/W LINE FROM 1991 BOUNDARY SURVEY BY JOHNSON ENGINEERING, INC.

**LEGEND**

AREA TO REMAIN (MINOR REPAIRS)

AREA TO BE REPLACED



CO6: VIEW B

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**EXISTING CONDITIONS AND DEMOLITION PLAN**

SHEET NUMBER  
**C06**

