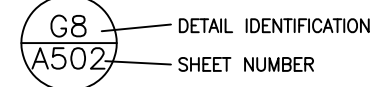
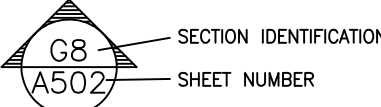


USER: Michael.Gering PLOTTED THE G100 LAYOUT OF W:\2025\FLO008-0628350-25010894 FDP Goodland Dock\Drawings\Goodland Dock 103025.dwg, ON Nov 18, 2025 @ 9:22am

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.H.U.	AIR HANDLING UNIT
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
B.T.	BUILT
BRK.	BRICK
BRKR.	BREAKER
BSMT.	BASEMENT
C.J.	CONTROL JOINT
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
CONC.	CONCRETE
CP	COPPER
CU. FT.	CUBIC FOOT
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
DI. #	DIAMETER
DB.	DOUBLE
DET.	DRY-BULB TEMPERATURE
DEG.	DEGREE
DEPT.	DEPTH
DF.	DRINKING FOUNTAIN
DISC.	DISCONNECT
DL	DOWN
DN.	DOWN
D.S.	DOWN SPOUT
DWG.	DRAWING
E.F.	EXHAUST FAN
EXH.	EXHAUST
EXT.	EXTERIOR
FIN.	FINISH
FLUOR.	FLUORESCENT
FP	FIRE PLACE
FR.	FIRE RATING
FT.	FOOT/FEET
FTG.	FOOTING
GALV.	GALVANIZED
GFI	GROUND FAULT
GOV'T.	GOVERNMENT
GR.FL.	GROUND FLOOR
GYP.	GYP-SUM
H.C.	HOLLOW CORE
H.D.G.	HOT DIPPED GALVANIZED
HDR.	HEADER
HDWR.	HARDWARE
H.P.	HORSEPOWER
HT.	HEIGHT
HTR.	HEATER
HV.	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWY.	HIGHWAY
ID.	INSIDE DIAMETER
IN.	INCH
INCAND.	INCANDESCENT
INCLD.	INCLUDED
INSUL.	INSULATION
INT.	INTERIOR
INV. EL.	INVERT ELEVATION
JST.	JOIST
KD.	KILN DRIED
KW.	KILOWATT
KWH.	KILOWATT HOUR
LAM.	LAMINATED
LAV.	LAVATORY
LB.	POUND
LTG.	LIGHTING
LGTH.	LENGTH
LIN.	LINEAR
LL.	LIVE LOAD
MANUF.	MANUFACTURE
MAX.	MAXIMUM
MF.	MIL. FINISH
MIN.	MINIMUM
MOD.	MODIFYING
MHW.	MEAN HIGH WATER
MHW.	MEAN HIGHER HIGH WATER
MLW.	MEAN LOW WATER
MLW.	MEAN LOWER LOW WATER
MSL.	MEAN SEA LEVEL
MOD.	MODIFICATION
NTS	NOT TO SCALE
NO. #	NUMBER
OA.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPC.	OFFICE
O.V.	OVER HEAD
OPP.	OPPOSITE
PARTN.	PARTITION
PC.	PORTLAND CEMENT
P.C.F.	POUNDS PER CUBIC FOOT
P.E.	PROFESSIONAL ENGINEER
PERF.	PERFORATE
PERP.	PERPENDICULAR
PL.	PLATE
PLG.	PILING
PLYWD.	PLYWOOD
PNL.	PANEL
PREFAB.	PREFABRICATED
PRELIM.	PRELIMINARY
PSF.	POUNDS PER SQUARE FOOT
PSI.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
QS.	QUARTER SAWN
R.	RADIUS
RCPT.	RECEPTACLE
REBAR.	REINFORCING BAR
REFRIG.	REFRIGERATION
REIN.	REINFORCING
RFG.	ROOFING
RSH.	ROUGH
RM.	ROOM
R.O.	ROUGH OPENING
RS.	ROUGH SAWN
S.C.	SOLID CORE
SCH.	SCHEDULE
SD.	SIDING
SECT.	SECTION
SFTWD.	SLIDING
SID.	SLIDING GLASS DOOR
SH.	SHINGLES
SPEC.	SPECIFICATION
SQ.	SQUARE
SQ. FT.	SQUARE FOOT
SQ. IN.	SQUARE INCH
SQ. YD.	SQUARE YARD
SS.	STAINLESS STEEL
STL.	STEEL
SUB. FL.	SUBFLOOR
SUP.	SUPPLY
SW.	SWITCH
SYM.	SYMMETRICAL
S.Y.P.	SOUTHERN YELLOW PINE
SYS.	SYSTEM
S4S.	SURFACED FOUR SIDES
TEL.	TELEPHONE
T&G.	TONGUE-AND-GROOVE
TYP.	TYPICAL
U.E.	UNDERGROUND ELECTRIC
U.G.	UNDER GROUND
LAB.	LABORATORIES, INC.
V.	VOLT
VENT.	VENTILATOR
VERT.	VERTICAL
V.F.	VERIFY IN FIELD
VDL.	VOLUME
V.P.	VENT PIPE
VTR.	VENT THRU ROOF
W.	WATER
WBT.	WET BULB TEMPERATURE
WC.	WATER CLOSET
WD.	WOOD
WIP.	WATERPROOF
WWF.	WELDED WIRE FABRIC
YD.	YARD

REFERENCE LEGEND



MAP SCALE: 1"=300'

ROOKERY BAY
RESEARCH RESERVE

DISTRICT 4

COLLIER COUNTY

SECTION 13, TOWNSHIP 52 S, RANGE 26 E

GOODLAND DOCK EXTENSION

2561 SAN MARCO ROAD
MARCO ISLAND, FLORIDA

PROJECT # RM2401

APPLICABLE CODES AND DESIGN DATA

CODE LIST

FLORIDA BUILDING CODE, BUILDING (FBC-B).....	N/A
FLORIDA BUILDING CODE, FUEL GAS (FBC-FG).....	N/A
FLORIDA BUILDING CODE, MECHANICAL (FBC-M).....	N/A
FLORIDA BUILDING CODE, PLUMBING (FBC-P).....	N/A
FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB).....	N/A
FLORIDA BUILDING CODE, RESIDENTIAL (FBC-R).....	N/A
FLORIDA FIRE PREVENTION CODE (FFPC).....	N/A
NATIONAL ELECTRICAL CODE NFPA-70.....	N/A
FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONST.	N/A
FDOT DESIGN STANDARDS.....	N/A
FLORIDA ACCESSIBILITY CODE.....	N/A

DESIGN DATA

CONSTRUCTION TYPE: <u>N/A</u>	TOTAL BUILDING AREA PER FLOOR: <u>N/A</u> SF
OCCUPANCY CLASS: <u>N/A</u>	BUILDING HEIGHT/NUMBER OF STORIES: <u>N/A</u>
OCCUPANCY HAZARD CLASSIFICATION: <u>N/A</u>	
OCCUPANT LOAD: <u>N/A</u>	REQUIRED SPRINKLER OR ALARM SYSTEM: Yes / No
TOTAL EXITS: <u>N/A</u>	NUMBER OF BEDROOMS: <u>N/A</u>
SQ FT ALTERED AREA: <u>N/A</u>	LEVEL OF ALTERATION: <u>N/A</u>

DESIGN LOADS:

LIVE LOADS (PER FBC TABLE 1607.1):

FLOOR AND DECK LOADS

FLOOR DEAD LOAD:.....	N/A
BUILDING PLAN SET	
FLOOR LIVE LOAD:.....	N/A
BUILDING PLAN SET	

ROOF LOAD

LIVE LOAD:.....	N/A
BUILDING PLAN SET	
DEAD LOAD:.....	N/A
BUILDING PLAN SET	

WIND LOADS (PER ASCE 7-16):

BASIC WIND SPEED (1609.3.1)	
Ultimate (V _{ult})(THREE SECOND GUEST):.....	N/A MPH
Nominal (V _{nom}):.....	N/A MPH
RISK CATEGORY (1604.5):.....	N/A
WINDOW LOAD IMPORTANCE FACTOR:.....	N/A
WINDOW EXPOSURE (1609.4):.....	N/A
INTERNAL PRESSURE COEFFICIENT (G _{cpi}):.....	N/A
COMPONENTS & CLADDING WIND PRESSURES:.....	N/A
LIFE SAFETY PLAN:	
N/A	

WEILER ENGINEERING CORPORATION

WEC

An Apex Company

201 W. MARION AVE SUITE 1306
PUNTA GORDA FL, 33950
941.505.1700
EB #6656

DESIGNER

FLO008-0628350-25010894

FILE No.

11/20/2025

INITIAL ISSUE DATE

SCOPE OF PROJECT

DESIGN, PERMITTING AND CONSTRUCTION SERVICES FOR THE EXTENSION OF THE EXISTING DOCK BY THE ADDITION OF (2) NEW FLOATING DOCK SECTIONS.

INDEX OF DRAWINGS

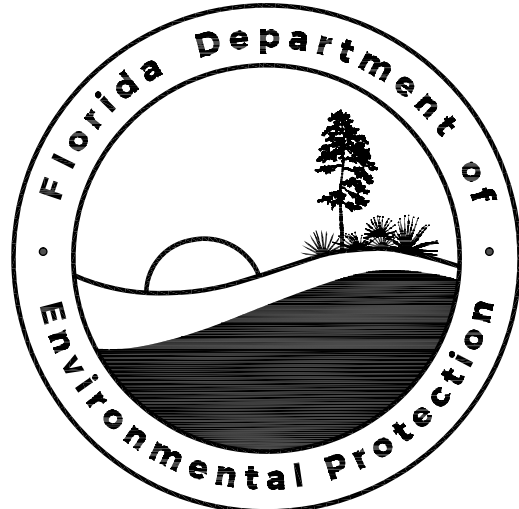
G100	COVER SHEET
G101	GENERAL NOTES
C100	2024 AERIAL PHOTOGRAPH
C101	BEST MANAGEMENT PLAN
C102	EXISTING CONDITIONS & DEMO PLAN
C103	OVERALL SITE PLAN
C104	SITE PLAN
C500	CROSS SECTION & DETAILS
C501	SIGN DETAILS

Robin
C.
Palmer

Digitally signed
by Robin C.
Palmer
Date:
2025.11.20
10:52:13 -05'00'

Robin C. Palmer,
State of Florida,
Professional Engineer,
License No. 90050
This item has been
digitally signed and sealed by
Robin C. Palmer, P.E.
on the date indicated here,
11/20/2025
Signature must be verified on
any electronic copies.

Robin C. Palmer
Professional Engineer
State of Florida
Registration No. 90050



Project Location

ROOKERY BAY RESEARCH RESERVE
GOODLAND DOCK EXTENSION

PRE-BID SUBMITTAL. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING TO FAMILIARIZE HIMSELF WITH THE PROJECT, THE CONSTRUCTION ACTIVITIES, THE CONTRACT, THE SPECIFICATIONS, AND STANDARDS OF THE UTILITY COMPANIES WHICH ARE SERVING THE PROJECT SITE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH ALL STATE, FEDERAL, AND LOCAL LAWS, CODES, AND REGULATIONS IN CONNECTION WITH THE PERFORMANCE OF THE WORK.

CONSTRUCTION SAFETY AND LIABILITY. THE CONTRACTOR MUST TAKE PROPER SAFETY AND HEALTH PRECAUTIONS TO PROTECT THE WORK, THE WORKERS, THE PUBLIC, AND THE PROPERTY OF OTHERS. THE CONTRACTOR IS RESPONSIBLE ALSO FOR ALL MATERIALS DELIVERED AND WORK PERFORMED UNTIL COMPLETION AND ALL ACCEPTANCES HAVE BEEN OBTAINED. THE CONTRACTOR SHALL MAINTAIN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE STATE OF FLORIDA ROADWAY AND TRAFFIC DESIGN STANDARDS (1994). THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO PERSONS OR PROPERTY THAT OCCURS AS A RESULT OF HIS NEGLIGENCE. THE CONTRACTOR MUST SAVE HARMLESS ALL EXISTING ENGINEERS, ARCHITECTS, SURVEYORS, CONTRACTORS, CONSULTANTS, REPRESENTATIVES AND EMPLOYEES FROM ALL CLAIMS, LOSS, DAMAGE, ACTIONS, CAUSES OF ACTION, AND/OR EXPENSES RESULTING FROM, BROUGHT FOR, OR ON ACCOUNT OF ANY PERSONAL INJURY OR PROPERTY DAMAGE RECEIVED OR SUSTAINED BY ANY PERSONS OR PROPERTY GROWING OUT OF OCCURRING, OR ATTRIBUTABLE TO ANY WORK PERFORMED UNDER OR RELATED TO THIS CONTRACT, RESULTING IN WHOLE OR IN PART FROM THE NEGLIGENCE ACTS OR OMISSIONS OF THE CONTRACTOR, ANY SUBCONTRACTOR, OR ANY EMPLOYEE, AGENT, OR REPRESENTATIVE OF THE CONTRACTOR OR ANY SUBCONTRACTOR.

PRE-CONSTRUCTION THE OWNER SHALL SECURE PRIOR TO CONSTRUCTION A PROFESSIONAL LAND SURVEYOR TO PERFORM AN "AS-BUILT" SURVEY OF ALL COMPLETED IMPROVEMENTS. THE OWNER SHALL ALSO SECURE PRIOR TO CONSTRUCTION A PROFESSIONAL ENGINEER TO PROVIDE THE APPROPRIATE SERVICES NEEDED IN ORDER TO CERTIFY TO ALL APPLICABLE REGS TO THE PROJECT. THE IMPROVEMENTS WERE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH ALL APPLICABLE PERMITS AND APPROVALS. THE OWNER SHALL COORDINATE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, SURVEYOR, CONTRACTOR, TESTING LAB, UTILITY COMPANIES, AND APPROPRIATE REGULATORY AGENCIES. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING SUBMISSION SCHEDULE FOR ALL PROJECT MATERIALS AND COMPONENTS. THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION OF ANY PORTION OF THE IMPROVEMENTS UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED FOR THAT PORTION BY THE ENGINEER. THE OWNER, CONTRACTOR, ENGINEER AND UTILITY COMPANIES SHALL MAINTAIN ALL DOCUMENTATION REQUIRED FOR CONTRIBUTED FACILITIES TRANSFER FROM THE OWNER/DEVELOPER TO THE UTILITY COMPANY UPON PROJECT COMPLETION, UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY. THE FOLLOWING DOCUMENTS SHALL BE PROVIDED:

- DOCUMENTS REQUIRED FOR CONTRIBUTED FACILITIES FROM DEVELOPER TO UTILITY COMPANY:
1. RECORD DRAWINGS (AS-BUILT): MUST BE SIGNED AND SEALED BY ENGINEER OF RECORD, SUBMIT A REPRODUCIBLE MYLAR AND TWO COPIES OF PRINTS.
 2. DETAILED COST OF CONSTRUCTION: MUST INCLUDE INDIVIDUAL ITEMS OR APPURTENANCES, UNIT COST AND TOTAL COST OF EACH. DO NOT INCLUDE WATER SERVICE LINES OR SEWER LATERALS.
 3. DESCRIPTION OF FACILITIES: A SHORT EXPLANATION DEPICTING WHAT HAS BEEN CONSTRUCTED.
 4. I.E.E.P. APPLICATION(S).
 5. INSPECTION REPORT(S).
 6. ENGINEER'S CERTIFICATE OF SUBSTANTIAL COMPLETION TO D.E.P.
 7. SYSTEM(S) ACCEPTANCE LETTER(S) FROM D.E.P.

PRIOR TO ANY INTERRUPTION OF THE UTILITY PROVIDER AND WILL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED UTILITY. THE CONTRACTOR SHALL NOTIFY THE ELECTRIC UTILITY OF THE MINIMUM OF TWO FEET OF CLEARANCE IN THE VICINITY OF THEIR FACILITIES THAT HE INTENDS TO START WORK IN A SPECIFIC AREA. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE SUPPORT AND PROTECTION OF POWER LINES, WATER LINES, GAS LINES, AND OTHER UTILITIES OR PUBLIC UTILITIES LEGALLY OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE, RIGHT-OF-WAY, OR EASEMENT.

ENVIRONMENTAL PROTECTION DURING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL AREAS IDENTIFIED ON THE PLANS TO BE CLEARED. THE CONTRACTOR MUST NOT DEFACE, INJURE, OR DESTROY TREES OR SHRUBS OR REMOVE OR CUT THEM WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. IN THE AREAS IDENTIFIED ON THE PLANS TO BE CLEARED, AREAS SHOWN FOR IMPROVEMENTS SHALL BE CLEARED UNLESS NOTED OTHERWISE. PROTECTION OF WATER RESOURCES - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, REGIONAL, COUNTY AND MUNICIPAL LAWS CONCERNING THE POLLUTION OF WATER RESOURCES. WORK MUST BE PERFORMED IN SUCH A MANNER THAT OBJECTIONABLE CONDITIONS WILL NOT BE CREATED IN PUBLIC WATERS RUNNING THROUGH, OR ADJACENT TO THE PROJECT AREA.

1. EROSION AND SEDIMENT CONTROL - ALL PRACTICABLE AND NECESSARY EFFORT SHOULD BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION OF SEDIMENT TO SURFACE DAMNS, AREAS, SURFACE WATER, OR ONTO OTHER PROPERTY BY ANY OR ALL OF THE FOLLOWING METHODS:
 - A. STORMWATER FACILITIES ARE TO BE BUILT AS EARLY IN THE CONSTRUCTION PHASE AS POSSIBLE TO ENSURE THE TREATMENT OF STORMWATER RUNOFF. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, HOWEVER, SUCH AS BERMS, SEDIMENT BASINS, GRASSING, SODDING, SAND BAGGING, BALED HAY OR STRIPS, GEOTEXTILE SILT BARRIERS, STACKED SILT BARRIERS, ETC., MUST BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT FACILITIES ARE COMPLETED AND OPERATIONAL.
 - B. REVEGETATION AND STABILIZATION OF DISTURBED GROUND SURFACES SHOULD BE ACCOMPLISHED AS SOON AS POSSIBLE.
 - C. FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES.
 - D. PROHIBIT THE USE OF ANY CONSTRUCTION EQUIPMENT THAT LEAKS FUEL OIL, OR HYDRAULIC FLUID.
2. ALL DISTURBED AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, EXCEPT RETENTION AREAS, AND SHALL BE STABILIZED BY SODDING. THE LATEST VERSION OF THE F.D.O.T. ROAD AND BRIDGE SPECIFICATIONS SHALL BE USED UNLESS MORE RESTRICTIVE LOCAL SPECIFICATIONS EXIST.

CONTRACTOR RESPONSIBLE FOR STABILIZING AND MAINTAINING SLOPES AND SOD THROUGHOUT CONSTRUCTION UNTIL SUCH TIME AS APPROVED BY THE ENGINEER.

ALL PROPOSED REVEGETATION OF THE PROJECT AREA MUST BE APPROVED BY THE DISTRICT BIOLOGIST. PROPOSED PLANTING SCHEDULES SHALL BE SUBMITTED TO THE DISTRICT BIOLOGIST FOR REVIEW AND SHOULD ONLY INCLUDE PLANT SPECIES THAT ARE NATIVE TO FLORIDA AND HAVE BEEN DOCUMENTED IN THE PARK. THE ONLY ACCEPTABLE SOD IS ST. AUGUSTINE GRASS (STENOCHLOMUM AFRICANUM), A SPECIES NATIVE TO FLORIDA. ANY OTHER PROPOSED REVEGETATION SHALL BE SUBMITTED TO THE DISTRICT BIOLOGIST FOR REVIEW PRIOR TO INSTALLATION ON SITE.

PROTECTION OF FISH AND WILDLIFE. THE CONTRACTOR MUST AT ALL TIMES PERFORM ALL WORK IN A WAY AND TAKE SUCH STEPS AS REQUIRED TO PREVENT ANY INTERFERENCE WITH OR DISTURBANCE TO FISH AND WILDLIFE. THE CONTRACTOR SHALL NOT ALTER WATER FLOWS OR OTHERWISE DISTURB NATIVE HABITATS AND JURISDICTIONAL WETLANDS LOCATED WITHIN AND/OR ADJACENT TO THE PROJECT AREA.

RECORDING AND PRESERVING HISTORICAL AND ARCHEOLOGICAL FINDS ALL ITEMS HAVING ANY APPARENT HISTORICAL OR ARCHEOLOGICAL INTEREST THAT ARE DISCOVERED IN THE COURSE OF ANY CONSTRUCTION ACTIVITIES MUST BE CAREFULLY PRESERVED. THE CONTRACTOR MUST LEAVE THE ARCHEOLOGICAL FIND UNDISTURBED AND MUST IMMEDIATELY REPORT THE FIND TO THE OWNER SO THAT THE PROPER AUTHORITY MAY BE NOTIFIED.

- EARTHWORK
- 1.01 GENERAL
- 1.01-01 SUBMITTALS
- A. EROSION AND CONTROL MEASURES
- B. COMPACTION TESTS
- C. SOIL CLASSIFICATION TESTS
- D. PRESERVATION PLANS
- 1.02 SITE EXAMINATION
- A. CONTRACTORS, BEFORE SUBMITTING BIDS, SHALL INFORM THEMSELVES AS TO LOCATION AND NATURE OF THE CHARACTER OF THE EQUIPMENT AND FACILITIES NEEDED FOR PERFORMANCE OF THE WORK, GENERAL AND LOCAL CONDITIONS PREVAILING AT THE SITE, AND OTHER MATTERS WHICH MAY IN ANY WAY, AFFECT THE WORK UNDER CONTRACT.
- B. EXAMINE SOURCES OF INFORMATION CONCERNING GROUND WATER LEVEL, WHETHER SURFACE OR SUBSURFACE. EACH BIDDER TO DRAW HIS OWN CONCLUSION CONCERNING GROUND WATER LEVELS AND HOW WATER AFFECTS HIS WORK.

- 1.03 SUBSURFACE INVESTIGATION
- A. SUBSURFACE DATA, INCLUDING GROUND WATER ELEVATIONS OR CONDITIONS, IF SHOWN ON THE DRAWINGS OR ATTACHED TO THESE SPECIFICATIONS, ARE PRESENTED ONLY AS INFORMATION THAT IS AVAILABLE TO THE BIDDER. CERTAIN CONDITIONS FOUND AND LIMITED TO THE EXACT LOCATIONS, SHALL NOT BE INTERPRETED AS AN INDICATION OF CONDITIONS THAT MAY ACTUALLY BE DEVELOPED THROUGH THE PERIOD OF CONSTRUCTION. BIDDERS SHALL EXAMINE THE SITE OF THE WORK AND MAKE THEIR OWN DETERMINATION OF THE CHARACTER OF MATERIALS AND THE CONDITIONS TO BE ENCOUNTERED ON THE WORK, AND THEIR PROPOSAL SHALL BE BASED UPON THEIR OWN INVESTIGATIONS. THE OWNER AND ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR VARIATIONS FOUND TO EXIST BETWEEN THE ATTACHED DATA ABOVE REFERRED TO AND ACTUAL FIELD CONDITIONS THAT DEVELOP THROUGH THE PERIOD OF CONSTRUCTION.
- B. WHERE EXISTING GRADES, UTILITY LINES AND SUBSTRUCTURES ARE SHOWN ON THE DRAWINGS, THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR CORRECTNESS OF EXISTING CONDITIONS INDICATED. THE CONTRACTOR SHALL ASCERTAIN EXACT LOCATIONS OF UTILITIES AND SUBSTRUCTURES THAT MAY BE AFFECTED BY THIS PROJECT, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INJURY THAT MAY RESULT FROM WORKING ON OR NEAR THOSE UTILITIES, SUBSTRUCTURES WHICH ARE NOT TO BE REMOVED OR DEMOLISHED.
- C. THE CONTRACTOR SHALL MAKE HIS OWN DEDUCTIONS OF THE SUBSURFACE CONDITIONS WHICH MAY AFFECT METHODS OR COST OF CONSTRUCTION AND HE AGREES THAT HE WILL MAKE NO CLAIM FOR DAMAGES OR OTHER COMPENSATION EXCEPT SUCH AS ARE PROVIDED FOR IN THE AGREEMENT, SHOULD HE FIND CONDITIONS DURING THE PROGRESS OF THE WORK DIFFERENT FROM THOSE AS CALCULATED OR ANTICIPATED BY HIM.

- 1.04 BENCH MARKS AND MONUMENTS
- A. MAINTAIN CAREFULLY EXISTING BENCH MARKS, MONUMENTS, AND OTHER REFERENCE POINTS IF DISTURBED OR DESTROYED, REPLACE AS DIRECTED.

- 1.05 JOB CONDITIONS
- A. CONDITION OF PREMISES: ACCEPT SITE AS FOUND AND EXCAVATE, FILL, COMPACT, AND BACKFILL SITE AS HEREINAFTER SPECIFIED.
- B. PRECAUTIONS TO GUARD AGAINST MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES AND FACILITIES: PROVIDE AND MAINTAIN PROPERLY CONSTRUCTED AND COMPACTED FILL MATERIALS TO SUPPORT SUCH STRUCTURES AND NOTIFY THE OWNER. RESUME OPERATIONS ONLY AFTER PERMISSION HAS BEEN CHANGED BY THE OWNER.

2. SIDEWALKS AND STREETS TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT, SETTLEMENT OR COLLAPSE OF ANY SIDEWALKS, CURBS OR STREET PASSAGES ON ADJOINING SITE; BE LIABLE FOR ANY SUCH MOVEMENT, SETTLEMENT OR COLLAPSE; REPAIR PROMPTLY AND MONIES TO LIFTING AND GRUBBING WHERE APPLICABLE, HAS BEEN COMPLETED.
3. REMOVAL OF LANDSCAPED AREAS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF LANDSCAPED AREAS, CURBS AND LAKES ON OR ADJACENT TO SITE OF THE WORK AND REPLACE, AT NO EXPENSE TO OWNER, ANY OF SUCH DESTROYED.
- II. EXECUTION
- 2-01 GENERAL
- A. IN A MANNER THAT PROVIDES FOR THE SAFETY OF THE PUBLIC AND WORKMEN AND PROVIDE FOR THE PROTECTION OF THE PROPERTY OF THE PUBLIC AND WORKMEN.
- B. CONSTRUCTION: DO NOT CLOSE, OBSTRUCT OR STORE MATERIAL OR EQUIPMENT IN STREETS, SIDEWALKS, ALLEYS OR PASSAGeways WITHOUT A PERMIT IN ACCORDANCE WITH LOCAL ORDINANCES AND REGULATIONS.
- C. INTERFERENCE: CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE WITH ROADS, STREETS, DRIVEWAYS, ALLEYS, SIDEWALKS AND OTHER FACILITIES.
- D. PNEUMATIC TOOLS: WORK WITH PNEUMATIC OR VIBRATORY TOOLS WILL BE PERMITTED ONLY IN A MANNER THAT CAUSES NO REPAIR DAMAGE TO EXISTING STRUCTURES.
- E. REMOVAL: UNLESS OTHERWISE NOTED OR SPECIFIED TO BE RELOCATED OR STORED, ALL MATERIALS REMOVED BECOME THE PROPERTY OF THE CONTRACTOR AND ARE TO BE REMOVED COMPLETELY AWAY FROM THE SITE BY HIM. DO NOT STORE OR PERMIT DEBRIS TO ACCUMULATE ON THE SITE.
- F. TEMPORARY STRUCTURES: REMOVE ALL TEMPORARY STRUCTURES WHEN THEY ARE NO LONGER REQUIRED.
- G. REPAIR: CLEAN UP, REPAIR OR REPLACE AT NO COST TO OWNER ALL PROPERTY DAMAGED BY REASON OF REQUIRED WORK. ALL PATCHWORK SHALL MATCH EXISTING AND BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER BY CRAFTSMEN SKILLED IN THE TRADE INVOLVED. IN NEWLY GRADED AREAS TAKE EVERY PRECAUTION AND TEMPORARY MEASURE NECESSARY, TO PREVENT DAMAGE FROM EROSION OF FRESHLY GRADED AREA, WHERE ANY SETTLEMENT OR WASHING MAY OCCUR PRIOR TO ACCEPTANCE OF THE WORK, REPAIR DAMAGE TO EXISTING STRUCTURES AND RE-ESTABLISH GRADATIONS AND SLOPE AT NO ADDITIONAL COST TO THE OWNER. THIS APPLIES TO DAMAGE TO THE NEWLY GRADED AREAS WITHIN THE CONSTRUCTION LIMITS AND DAMAGE TO ADJACENT PROPERTIES BY EROSION OR COLLAPSE.

- 2-02 LOCATIONS AND ELEVATIONS
- A. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEYS, MEASUREMENTS AND LAYOUTS REQUIRED FOR PROPER EXECUTION OF THE WORK. THE CONTRACTOR SHALL MAINTAIN EXISTING SURVEY CONTROL SYSTEM AND AS SHOWN ON DRAWINGS.
- 2-03 CLEARING AND GRUBBING
- A. WITHIN LIMITS OF AREAS DESIGNATED FOR GRADING AND SITE CONSTRUCTION WORK, REMOVE TREES, BRUSH, STUMPS, WOOD, DEBRIS AND OTHER DELETERIOUS MATERIALS NOT REQUIRED TO REMAIN AS PART OF FINISHED WORK.
- B. REMOVE ALL GRASS, PLANTS, VEGETATION AND ORGANIC MATERIAL FROM SAME AREA.
- 2-04 STRIPPING
- A. STRIP ALL TOPSOIL ORGANIC MATERIAL SURFACE LITTER, RUBBLE, AND OVERBURDEN FOR ENTIRE DEPTH OF ROOT SYSTEM OF GRASS OR OTHER VEGETATION OVER THE LIMITS OF CONSTRUCTION.
- B. STOCKPILE TOPSOIL ON SITE WHERE DIRECTED.
- 2-05 EXCAVATION
- A. BEGIN EXCAVATION AFTER STRIPPING, CLEARING AND GRUBBING WHERE APPLICABLE, HAS BEEN COMPLETED.
- B. EXCAVATE TO GRADES REQUIRED TO ACCOMMODATE THE PROPOSED CONSTRUCTION.
- C. REMOVE "UNSATISFACTORY MATERIALS" ENCOUNTERED FROM THE BUILDING AREAS, AND OTHER NON-LANDSCAPED AREAS.
- D. EXCAVATE IN SUCH A MANNER THAT QUICK AND EFFICIENT DRAINAGE OF STORMWATER WILL BE AFFECTED.
- E. CLASSIFY EXCAVATED MATERIALS AND STOCKPILE SEPARATELY SUITABLE SOILS FOR USE AS BACKFILL MATERIALS. IF SUFFICIENT QUANTITIES OF EXCAVATED MATERIALS MEETING REQUIREMENTS FOR BACKFILL ARE NOT AVAILABLE ON SITE, PROVIDE MATERIALS MEETING THESE REQUIREMENTS.
- F. STOCKPILE EXCAVATED MATERIAL SUITABLE FOR USE AS FILL AND BACKFILL.

- 2-06 FILLING, BACKFILLING AND COMPACTING
- A. THE WORK CONSISTS OF COMPACTION OF EXISTING EARTH (EXCLUDE ROCK), SURFACES AFTER EXCAVATION, FILLING AND COMPACTION OF SAID AREA TO LEVELS REQUIRED WITH SUITABLE BACKFILL MATERIAL.
- B. MATERIALS: "SATISFACTORY FILL MATERIALS" ASHSTO CLASSIFICATION A-3 OR BETTER SHALL BE USED IN FILLS AND BACKFILLS.
- C. FILLING AND BACKFILLING: PLACE "SATISFACTORY FILL MATERIAL" IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH. COMPACT AS SPECIFIED HEREIN NO MATERIAL SHALL BE PLACED ON SURFACES THAT ARE MUDDY.
- D. COMPACTION: COMPACTION SHALL BE WITH EQUIPMENT SUITED TO SOIL BEING COMPACTED. MOISTEN OR AERATE MATERIAL AS NECESSARY TO PROVIDE MOISTURE CONTENT THAT WILL READILY FACILITATE OBTAINING SPECIFIED COMPACTION WITH EQUIPMENT USED. COMPACT EACH LAYER TO NOT LESS THAN PERCENTAGE OF MAXIMUM DENSITY SPECIFIED BELOW DETERMINED IN ACCORDANCE WITH ASHSTO T-180. INSURE THAT THE COMPACTION OR PREVIOUSLY PREPARED FILL MARKS HAS BEEN MAINTAINED PRIOR TO PLACING NEW LAYERS.
- E. RECONDITIONING OF SUBGRADE: WHERE APPROVED COMPACTED SUBGRADES ARE DISTURBED BY THE CONTRACTOR'S SUBSEQUENT OPERATIONS OR ADVERSE WEATHER CONDITIONS, THE SUBGRADE SHALL BE RECONDITIONED AND COMPACTION SHALL BE RE-REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION THEREON. RE-COMPACTION OVER UNDERGROUND UTILITIES SHALL BE BY POWER-DRIVEN HAND TAMPERS.
- F. COMPACTION REQUIREMENTS
- G. FILL UNDER LAWNS AND PLANTED: 95%

- 2-07 TESTING
- A. THE CONTRACTOR WILL PROVIDE THE SERVICES OF A TESTING LABORATORY TO PERFORM SPECIFIED TESTS, INSPECTIONS, INSTRUMENTATION AND INSPECTION OF THE WORK.
- B. TESTS OF MATERIALS SHALL BE AS FOLLOWS:
1. SOIL CLASSIFICATION: ONE TEST FROM EACH TYPE OF MATERIAL ENCOUNTERED AND OR PROPOSED TO BE USED.
 2. LABORATORY TESTS FOR MOISTURE-CONTENT AND DENSITY ACCORDING TO ASHSTO T-180: ONE TEST FOR EACH MATERIAL ENCOUNTERED AND/OR PROPOSED TO BE USED.
 3. FIELD TESTS FOR MOISTURE CONTENT AND DENSITY: ONE TEST PER LAYER OF FILL PER 5,000 SQUARE FEET OF AREA.

- DEWATERING
- 1.01 GENERAL
- A. THE DOWATERING CONSISTS OF PERFORMING ALL WORK NECESSARY TO REMOVE SURFACE WATER AND/OR CONTROL THE GROUND WATER LEVELS AND HYDROSTATIC PRESSURES IN ORDER TO PERMIT ALL EXCAVATION AND CONSTRUCTION UNDER THIS CONTRACT TO BE PERFORMED IN THE DRY.
- B. WORK OF THIS SECTION INCLUDES INSTALLATION, OPERATIONS, MAINTENANCE, SUPERVISION, SUPPLY, DISMANTLING, AND REMOVAL FROM THE SITE OF THE DOWATERING EQUIPMENT.
- C. THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE POTENTIAL FOR EXCESSIVE RAINFALL, THE GROUND CONDITIONS, AND THE GROUND WATER CONDITIONS, GROUND WATER ELEVATION CAN FLUCTUATE. IT IS ANTICIPATED THAT ANY EXCAVATION MAY ENCOUNTER THE GROUND WATER TABLE.
- D. DRAINAGE OF THE SITE: AT ALL TIMES THE CONTRACTOR SHALL MAINTAIN AND OPERATE ADEQUATE SURFACE AND SUBSURFACE DRAINAGE METHODS IN ORDER TO KEEP THE CONSTRUCTION SITE DRY AND IN SUCH CONDITION THAT PLACEMENT AND COMPACTION OF FILL MAY PROCEED UNHINDERED BY SATURATION OF THE AREA DURING CONSTRUCTION, THE SURFACE OF THE BACKFILL AREA SHALL BE LEFT IN SUCH CONDITION THAT PRECIPITATION AND/OR SURFACE WATER WILL RUN OFF WITHOUT FLOODING.

- 1.02 METHOD
- A. THE CONTROL OF ALL SURFACE AND SUBSURFACE WATER IS PART OF THE DOWATERING REQUIREMENTS. MAINTAIN ADEQUATE CONTROL SO THAT THE STABILITY OF EXCAVATED AND CONSTRUCTION SLOPES IS NOT ADVERSELY AFFECTED BY WATER, THAT EROSION IS CONTROLLED, AND THE FLOODING OF EXCAVATIONS OR DAMAGE TO STRUCTURES DOES NOT OCCUR, DRAIN SURFACE WATER AWAY FROM THE EXCAVATION.
- B. DISPOSE OF ALL WATER REMOVED FROM THE EXCAVATION IN A MANNER THAT WILL NOT ENDANGER PUBLIC HEALTH, PROPERTY, OR PORTIONS OF THE WORK UNDER CONSTRUCTION OR COMPLETED. DISPOSE OF WATER IN A MANNER THAT WILL CAUSE NO INCONVENIENCE WHATSOEVER TO THE OWNER OR TO OTHERS ENGAGED IN WORK AT THE SITE.
- C. DISPOSE OF WATER RESULTING FROM DOWATERING OPERATIONS IN ACCORDANCE WITH CITY, COUNTY, STATE AND FEDERAL REGULATIONS.
- D. CONDUCT OPERATIONS SO THAT STORMWATER RUNOFF, SEDIMENT IS NOT DISCHARGED TO THE ADJACENT WATER BODIES, SEWERS, STREETS AND ADJACENT PROPERTIES.
- E. DOWATERING SYSTEM SHALL BE SO DESIGNED AS TO PREVENT REMOVAL OF SOIL FINES FROM THE SITE DURING THE DOWATERING OPERATION.

- PORTLAND CEMENT CONCRETE PAVING
- 1.01 QUALITY ASSURANCE
- A. COMPLY WITH ACI STANDARDS RECOMMENDED PRACTICES FOR CONSTRUCTION OF CONCRETE PAVEMENTS AND CONCRETE BASES (AC308, LATEST EDITION)
- 1.02 REFERENCE STANDARDS
- A. THE FOLLOWING REFERENCE STANDARDS OF THE ISSUES LISTED BELOW BUT REFERRED TO THEREAFTER BY BASIC DESIGNATION ONLY, FORM A PART OF THIS SPECIFICATION TO THE EXTENT INDICATED BY THE REFERENCES

1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
2. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (ASHTO) STANDARDS
3. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) 1991 STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION - SECTION 350 "CEMENT CONCRETE PAVEMENT"
4. T-180 MOISTURE-DENSITY RELATIONS OF SOILS

- 1.03 SUBMITTALS
- A. THE CONTRACTOR SHALL SUBMIT TWO COPIES OF TEST REPORTS PREPARED BY A TESTING LABORATORY AND CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE STATE OF FLORIDA. THESE REPORTS SHALL INDICATE ALL TESTS PERFORMED AND SHALL INCLUDE A CERTIFICATION STATEMENT OF COMPLIANCE WITH THE TEST SPECIFICATIONS. TESTS SHALL BE PERFORMED AS SPECIFIED UNDER THIS SECTION.
1. SUBMIT FOR REVIEW THE FOLLOWING:
- A. CONCRETE DRY AND PROVING FLEXURAL STRENGTH (MODULUS OF RUPTURE) TESTS
- B. EXPANSION JOINT FILLER DATE
- C. JOINT SEALER DATE
- D. PROPOSED PAVING CONSTRUCTION PLAN WHICH SHALL SHOW THE CONCRETE PAVING JOINT TYPES AND LOCATIONS AND SHALL INCLUDE A STATEMENT OF PROPOSED SEQUENCE AND SCHEDULE OF PAVEMENT OPERATIONS
- E. RESULTS OF CONCRETE TESTS
- F. RESULTS OF FIELD TESTS OF LBR AND COMPACTION OF STABILIZED SUBGRADE.

- 1.04 MATERIALS
- A. STABILIZED SUBGRADE: PROVIDE 12 INCH STABILIZED SUBGRADE (LBR 40 MIN) COMPACTED TO A MINIMUM DENSITY OF 98% AS DETERMINED BY AASHTO T-180
- B. CONCRETE: CONCRETE FOR CONCRETE PAVEMENT SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. A SLUMP RANGE BETWEEN 2 TO 4 INCHES AND A MAXIMUM FREE WATER OF 650 PSI AS DETERMINED BY THE REQUIREMENTS OF PARAGRAPH TESTING SPECIFIED HEREINAFTER.
- C. JOINT SEALER: JOINT SEALING SHALL CONFORM TO FEDERAL SPECIFICATIONS SS-5401 OR SS-S-2009 (COLD APPLIED)
- D. PREMOLED EXPANSION JOINT FILLER: PREMOLED EXPANSION JOINT FILLER SHALL CONFORM TO ASTM D1751-73
- 1.05 CONSTRUCTION
- A. COMPLY WITH ACI STANDARD 316-74 AND SECTION 350, FOOT STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED HEREIN.
- B. FINAL GRADING: ALL CONCRETE PAVEMENT SHALL BE MINIMUM DEVIATION OF 1/8 INCH (PLUS/MINUS) FROM THE SPECIFIED SURFACE PLANE AND PLAN GRADES.
- C. THE SURFACE FINISH SHALL BE APPROVED BY THE OWNER OR HIS REPRESENTATIVE. IN GENERAL THE TEXTURE IS OF A MEDIUM BROOM FINISH AFTER FLOATING.
- D. JOINTS

1. CONSTRUCTION JOINTS INDICATED ON DRAWINGS, OR AS REQUIRED, SHALL BE PLACED PERPENDICULAR TO THE FINISH GRADE OF THE CONCRETE. JOINTS SHALL BE CUT TO A DEPTH OF 1/4 OF THE SLAB THICKNESS BY CUTTING WITH AN EDGING TOOL HAVING A 1/4 INCH RADIUS OR BY SAWING WITH A BLADE PRODUCING A CUT NOT LESS THAN 1/8 INCH IN WIDTH. SAW JOINTS WITHIN 4 TO 6 HOURS OF CONCRETE PLACEMENT.
2. EXPANSION JOINTS SHALL BE PLACED WHERE INDICATED ON DRAWINGS, OR AS REQUIRED, USING 1/2 INCH THICK PREFORMED EXPANSION JOINT MATERIAL ANCHOR WITH APPROVED DEVICES TO PREVENT DISPLACEMENT DURING PLACEMENT AND FINISHING. EDGES SHALL BE ROUNDED WITH AN EDGING TOOL. JOINTS SHALL BE FULL DEPTH OF CONCRETE EXCEPT THAT TOP EDGES SHALL BE 1/2 INCH BELOW THE FINISH CONCRETE SURFACE. EXPANSION JOINTS SHALL BE SEALED TO THE SURFACE BY FILLING WITH JOINT SEALING COMPOUND. JOINTS SHALL BE CLEAN AND DRY BEFORE SEALING COMPOUND IS PUT IN PLACE.
3. CONSTRUCTION JOINTS ARE TO BE USED AT CONTRACTION JOINT LOCATIONS TO STOP CONCRETE POURS.
- E. CURING: CONCRETE SHALL BE CURED BY PROTECTING IT AGAINST LOSS OF MOISTURE AND MECHANICAL INJURY FOR AT LEAST THREE DAYS AFTER PLACEMENT. A PIGMENTED LIQUID CURING MEMBRANE SHALL BE APPLIED IMMEDIATELY AFTER FINISHING; OPERATION AT THE RATE OF ONE GALLON TO NOT MORE THAN 200 SQUARE FEET.
- F. CLEANING AND SEALING JOINTS: JOINTS SHALL BE FILLED WITH JOINT-SEALING MATERIAL NO LESS THAN 8 HOURS AND WITHIN 2 WEEKS AFTER JOINTS ARE BUT. JUST PRIOR TO SEALING, EACH JOINT SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATERIAL INCLUDING ANY MEMBRANE CURING COMPOUND.
- G. TESTING: LABORATORY AND FIELD TESTING SHALL BE AT THE CONTRACTOR'S EXPENSE. IN ADDITION, ALL RETESTING SHALL BE DONE AT CONTRACTOR'S EXPENSE.

1. DESIGN MIXES AND TESTING REQUIREMENTS FOR THE CONCRETE PAVEMENT SHALL BE AS FOLLOWS:
- A. FLEXURAL STRENGTH TESTS OF CONCRETE AS BASIS FOR DESIGN
- B. SLUMP, MODULES OF RUPTURE AND 7-AND 20 DAY COMPRESSIVE STRENGTH TESTS SHALL BE PERFORMED ON SAMPLES TAKEN AT THE SITE AT A FREQUENCY OF TWO PER ACRE.
2. WHERE THE FLEXURAL STRENGTH OF THE CONCRETE IS SPECIFIED, MAKE ONE STRENGTH TEST AND ONE FLEXURAL TEST FOLLOWING (ASTM C192 AND ASTM C78) FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF PLACED PER DAY. NUMBER OF CYLINDERS SHALL BE THREE FOR STRENGTH TEST AND THREE FOR FLEXURAL TEST. TEST ONE AT THREE DAYS, ONE AT SEVEN DAYS AND ONE AT 28 DAYS

- PAVEMENT MARKING
- 1.01 QUALITY ASSURANCE
- A. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS IN A NEAT AND ACCURATE MANNER.
- B. ALL EQUIPMENT SHALL BE OF A TYPE AND DESIGN WHICH WILL READILY OBTAIN THE REQUIRED UNIFORMITY OF APPLICATION OF THE PAINT MARKINGS BOTH AS TO THICKNESS OF COATING AND AS TO ALIGNMENT.
- 1.02 REFERENCE STANDARDS
- A. THE FOLLOWING PUBLICATIONS OF THE ISSUE LISTED BELOW, BUT REFERRED TO THEREAFTER BY BASIC DESIGNATION ONLY, FORM A PART OF THIS SPECIFICATION TO THE EXTENT INDICATED BY THE REFERENCES THEREO:
1. SECTIONS 710 AND 7.1 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) 1991 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION)
2. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, 1988
- 1.03 SUBMITTALS
- A. SUBMIT PAINT TESTS, AS SPECIFIED IN SECTION 971 OF FOOT SPECIFICATIONS AND AS APPLICABLE TO HEREINAFTER SPECIFIED MATERIAL
- 1.04 MATERIALS AND COLORS
- A. THERMOPLASTIC: IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN SECTION 711 OF THE FOOT SPECIFICATIONS
- B. PAINT: IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN SECTION 971-12 CODE T-2 OF THE FOOT SPECIFICATIONS. LATEX PAINT ONLY.
- C. COLORS: YELLOW AND WHITE PER FOOT, OR AS INDICATED ON DRAWINGS.
- 1.05 EXECUTION
- A. TIME OF APPLICATION: PAINTING SHALL BE DONE ONLY DURING DAYLIGHT HOURS AND AS FAR AS PRACTICAL, SHALL BE TERMINATED IN TIME TO PERMIT UNDER CONSTRUCTION OR COMPLETED. DISPOSE OF WATER IN A MANNER THAT WILL CAUSE NO INCONVENIENCE WHATSOEVER TO THE OWNER OR TO OTHERS ENGAGED IN WORK AT THE SITE.
- B. WEATHER LIMITATIONS: NO PAINT SHALL BE APPLIED WHEN ANY MOISTURE IS PRESENT ON THE SURFACE TO BE PAINTED OR WHEN THE AIR TEMPERATURE IS BELOW 40 DEGREES
- C. PREPARATION OF SURFACE TO BE PAINTED: THE SURFACE WHICH IS TO BE PAINTED SHALL BE CLEANED, BY COMPRESSED AIR OR OTHER EFFECTIVE MEANS, OF ALL DIRT, DEBRIS, OIL, GREASE, AND OTHER SUBSTANCES. CLEAN AND DRY WHEN THE PAINT IS APPLIED. ANY VEGETATION OR LOOSE SOIL SHALL BE REMOVED FROM THE PAVEMENT BEFORE STRIPING IS BEGUN.
- D. MIXING PAINT: PAINT SHALL BE THOROUGHLY MIXED BEFORE IT IS POURED INTO THE PAINTING MACHINE AND NO THINNING OF THE PAINT IN THE MACHINE WILL BE ALLOWED AT ANY TIME. BEFORE THE START OF EACH DAY'S WORK THE PAINT CONTAINER, THE CONNECTIONS AND THE SPRAY NOZZLES ON THE MACHINE SHALL BE THOROUGHLY CLEANED WITH PAINT THINNER OR OTHER SUITABLE CLEANER.
- E. PAINT APPLICATION: THE TRAFFIC MARKINGS SHALL BE OF THE SPECIFIED DIMENSIONS WITH CLEAN EDGES AND WITHOUT SHARP BREAKS IN THE ALIGNMENT. A UNIFORM COATING OF PAINT SHALL BE OBTAINED AND THE FINISHED MARKINGS SHALL CONTAIN NO LIGHT SPOTS OR PAINT SKIPS. ANY STRIPES WHICH DO NOT HAVE A UNIFORM, SATISFACTORY APPEARANCE, BOTH DAY AND NIGHT, SHALL BE CORRECTED.
- F. RATE OF PAINT APPLICATION: THE MINIMUM RATE OF APPLICATION FOR PAINT SHALL BE AS FOLLOWS:
1. FOUR INCH STRIPES: 100 GALLONS PER MILE.
2. ANY OTHER WIDTH STRIPE OR MARKINGS: A DIRECT PROPORTION OF THE ABOVE
3. HANDCAP LOGO: IN CONFORMANCE TO THE REQUIREMENTS OF THIS SECTION AND LOCAL CODES.
- G. REQUIRED FILM THICKNESS: THE MINIMUM WET FILM THICKNESS FOR ALL PAINTED AREAS SHALL BE 15 MILS.
- H. ALIGNMENT OF STRIPES: WHERE A STRIPE DEVIATES FROM THE CORRECT ALIGNMENT, AS INDICATED BY THE STRING LINE, BY MORE THAN ONE INCH IN ANY 20 FOOT LENGTH, IT SHALL BE OBLITERATED AND THE STRIPE CORRECTED HEREINAFTER AS SPECIFIED IN PARAGRAPH "CORRECTIVE MEASURES"

- 1.06 PROTECTION OF PAINTED MARKINGS
- A. PROTECTION OF STRIPES: NEWLY PAINTED STRIPES, OR OTHER MARKINGS, SHALL BE PROTECTED UNTIL THE PAINT IS SUFFICIENTLY DRY TO PERMIT VEHICLES TO CROSS THE MARKING WITHOUT DAMAGE FROM THE TIRES.
- B. REPAIR OF DAMAGED AREAS: ANY PORTIONS OF THE STRIPES DAMAGED BY PASSING TRAFFIC, OR FROM ANY OTHER CAUSE, SHALL BE REPAINTED AT THE CONTRACTOR'S EXPENSE.
- 1.07 DIMENSION AND ALIGNMENT TOLERANCE
- A. DIMENSION OF PAVEMENT MARKINGS SHALL BE LESS THAN THE SPECIFIED WIDTH. NO MARKINGS SHALL EXCEED THE SPECIFIED WIDTH BY MORE THAN 1/2 INCH. ALIGNMENT TOLERANCES SHALL BE AS SPECIFIED IN PARAGRAPH 1.05 H. CORRECTION RATES: ANY CORRECTIONS OF VARIATION IN WIDTH OR ALIGNMENT OF STRIPES SHALL NOT BE MADE ABRUPTLY BUT THE STRIPES SHALL BE RETURNED TO THE DESIGN WIDTH AT THE RATE OF AT LEAST 10 FEET FOR EACH 1/2 INCH OF CORRECTION.
- 1.08 CORRECTIVE MEASURES
- A. ALL PAINTED MARKINGS WHICH FAIL TO MEET THE SPECIFICATIONS, INCLUDING THE PERMISSIBLE TOLERANCES AND THE APPEARANCE REQUIREMENTS, OR ARE DAMAGED OR DAMAGED BY TRAFFIC OR FROM OTHER CAUSES, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. ALL DRIP AND SPATTERED PAINT SHALL BE REMOVED. WHENEVER IT IS NECESSARY TO REMOVE PAINT IT SHALL BE DONE IN A MANNER WHICH WILL NOT DAMAGE THE UNDERLYING SURFACE OF THE PAVEMENT. WHEN NECESSARY TO CORRECT A DEVIATION WHICH EXCEEDS THE PERMISSIBLE TOLERANCE IN ALIGNMENT, THAT PORTION OF THE STRIPE AFFECTED SHALL BE REMOVED AND REPAINTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- B. CORRECTIVE DEVICES: MISALIGNMENT, DEFECTIVE SURFACES, ETC., SHALL BE CORRECTED BY CHEMICAL AGENTS, OR BY ANY OTHER TYPE OF MECHANICAL DEVICE WHICH WILL EFFECTUALLY REMOVE THE PAINT WITHOUT DAMAGE TO THE PAVEMENT SURFACE, OR PREVENT THE REAPPLICATION OF MARKINGS.

- 1.09 SPARE PAINT
- A. PROVIDE THE OWNER WITH A MINIMUM OF FIVE GALLONS OF TRAFFIC PAINT FROM THE SAME BATCH USED IN APPLICATION OF PAVEMENT MARKINGS. ALSO PROVIDE PAINT SPECIFICATIONS AND THE MANUFACTURER'S IDENTIFICATION NUMBER OF THE PAINT USED.

- 1.10 MARKING TYPE
- A. ANY PAVEMENT MARKINGS LOCATED WITHIN PUBLIC RIGHTS-OF-WAY SHALL BE PERMANENTLY LOCATED UNLESS OTHERWISE SPECIFIED.
- B. ANY PAVEMENT MARKINGS LOCATED ON-SITE SHALL BE PAINT UNLESS OTHERWISE INDICATED.

- CONSTRUCTION TOLERANCES
- THE FOLLOWING ARE THE ALLOWABLE DEVIATIONS FROM PROJECT DESIGN GRADES AND GRADATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM AND DOCUMENT COMPLIANCE WITH THESE TOLERANCES PRIOR TO PROCEEDING FROM ONE PHASE OF CONSTRUCTION TO THE NEXT:
1. STORMWATER MANAGEMENT/DRAINAGE FACILITIES
- A. PERIMETER CONTAINMENT BERM
- MINIMUM ELEVATION = DESIGN GRADE
- MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FEET
- B. WATER CONTROL STRUCTURE
- MINIMUM GRATE ELEVATION = DESIGN GRADE
- MAXIMUM GRATE ELEVATION = DESIGN GRADE + 0.10 FEET
2. MINIMUM CREST ELEVATION = DESIGN GRADE
- MAXIMUM CREST ELEVATION = DESIGN GRADE + 0.05 FEET
3. MINIMUM BLEEDER ELEVATION = DESIGN GRADE
- MAXIMUM BLEEDER ELEVATION = DESIGN GRADE + 0.05 FEET
4. MINIMUM TOP OF FILTER ELEVATION = DESIGN GRADE
- MAXIMUM TOP OF FILTER ELEVATION = DESIGN GRADE + 0.05 FEET
- C. CATCH BASINS/INLETS/PIPE INVERTS:
- MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET
- MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FEET
- D. SWALE GRADES/GRADIENTS:
1. MINIMUM ELEVATION = DESIGN GRADE - 0.10 FEET
- MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FEET
2. MINIMUM FLOWLINE GRADIENT = 90% OF DESIGN GRADIENT
- E. PAVEMENT GRADES/GRADIENTS:
1. FLEXIBLE PAVEMENT
- MINIMUM ELEVATION = DESIGN GRADE - 0.10 FEET
- MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FEET
2. FLEXIBLE PAVEMENT
- MINIMUM GRADIENTS = 90% DESIGN GRADIENT
- (CROSS SLOPE AND LONGITUDINAL SLOPE)
3. RIGID (CONCRETE) PAVEMENT GRADE:
- MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET
- MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FEET
4. RIGID PAVEMENT GRADIENTS:
- A) MINIMUM GRADIENTS = 90% OF DESIGN GRADIENT (CROSS SLOPE AND LONGITUDINAL SLOPE)
- B) MAXIMUM HANDCAP RAMP = 15:1 (GRADIENT UNLESS OTHERWISE SPECIFIED BY LOCAL CODES)

2. WATER DISTRIBUTION/WASTEWATER COLLECTION FACILITIES
- UNLESS OTHERWISE SPECIFIED BY THE LOCAL UTILITY COMPANIES, THE FOLLOWING ARE THE ALLOWABLE TOLERANCES FOR THESE ACTIVITIES:
- A. MANHOLES AND PIPE INVERTS:
1. MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET
- MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FEET
2. MINIMUM LINE GRADIENT = 90% OF DESIGN GRADIENT
- B. ALIGNMENT/LOCATION OF APPURTENANCES:
- AS ALLOWED BY APPLICABLE UTILITY AND/OR LOCAL GOVERNMENTAL ENTITY, CONTRACTOR SHALL CONFIRM AND DOCUMENT THIS PRIOR TO CONSTRUCTION.

- SUPPLEMENTAL SPECIFICATIONS
- GENERAL
- THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND ADHERE TO THE SPECIFICATIONS AND STANDARDS OF THE UTILITY COMPANIES WHICH ARE SERVING THE PROJECT SITE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH ALL STATE, FEDERAL, AND LOCAL LAWS, CODES, AND REGULATIONS IN CONNECTION WITH THE PERFORMANCE OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO PERSONS OR PROPERTY THAT OCCURS AS A RESULT OF HIS NEGLIGENCE. THE CONTRACTOR MUST SAVE HARMLESS ALL EXISTING ENGINEERS, ARCHITECTS, SURVEYORS, CONTRACTORS, CONSULTANTS, REPRESENTATIVES AND EMPLOYEES FROM ALL CLAIMS, LOSS, DAMAGE, ACTIONS, CAUSES OF ACTION, AND/OR EXPENSES RESULTING FROM, BROUGHT FOR, OR ON ACCOUNT OF ANY PERSONAL INJURY OR PROPERTY DAMAGE RECEIVED OR SUSTAINED BY ANY PERSONS OR PROPERTY GROWING OUT OF OCCURRING, OR ATTRIBUTABLE TO ANY WORK PERFORMED UNDER OR RELATED TO THIS CONTRACT, RESULTING IN WHOLE OR IN PART FROM THE NEGLIGENCE ACTS OR OMISSIONS OF THE CONTRACTOR, ANY SUBCONTRACTOR, OR ANY EMPLOYEE, AGENT, OR REPRESENTATIVE OF THE CONTRACTOR OR ANY SUBCONTRACTOR.

POTABLE WATER DISTRIBUTION/WASTEWATER COLLECTION INSTALLATION

UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS, THE STANDARDS AND SPECIFICATIONS OF THE ASSOCIATED UTILITY COMPANY SERVING THE PROJECT SITE SHALL BE ADHERED TO FOR ALL MATERIALS, INSTALLATION, TESTING, AND CERTIFICATION ACTIVITIES CONTRA ALL PLUM, STATION, MAIN LINES, SERVICES, AND APPURTENANCES. IF STANDARDS AND SPECIFICATIONS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CONFORM WITH THE LATEST STANDARDS AND SPECIFICATIONS ADOPTED BY DESOTO COUNTY UTILITIES. LOCAL GOVERNMENTAL REGULATIONS, OR THE MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES, WHICH ARE SPECIFICALLY THE MOST RESTRICTIVE. A COPY OF THE DESOTO COUNTY UTILITIES SPECIFICATIONS CAN BE REVIEWED AT THE OFFICE OF THE WEILER ENGINEERING CORPORATION.

STORMWATER PIPE INSTALLATION AND MISCELLANEOUS EXCAVATIONS

UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM THE EXCAVATION, BEDDING, JOINTS, AND BACKFILL OPERATIONS IN ACCORDANCE WITH THE POTABLE WATER/ WASTEWATER INSTALLATION SPECIFICATIONS. LOCAL GOVERNMENTAL REGULATIONS OR STANDARDS, F.D.O.T. STANDARDS, OR MANUFACTURER'S OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES, WHICHEVER IS SPECIFICALLY THE MOST RESTRICTIVE.

UNSATURABLE MATERIALS

IF UNSATURABLE MATERIAL IS ENCOUNTERED WITHIN THE ROADWAY AREA AND/OR UTILITY AREAS IT SHALL BE REMOVED TO A DEPTH OF THREE (3) FEET BELOW THE SUB-BASE OR TRENCH BOTTOM AND SHALL BE BACKFILLED WITH THE A-3 MATERIAL, OR BETTER, WITH PLACEMENT AND COMPACTION METHODS IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS OR AS OTHERWISE NOTED ON THE PLANS. UNSATURABLE MATERIAL SHALL BE REMOVED FROM SITE, UNLESS THE ENGINEER APPROVES USE WITHIN LANDSCAPED AREAS.

TESTING THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING, COORDINATING, DOCUMENTING, AND PROVIDING THE FOLLOWING MINIMUM TESTING: WATER DISTRIBUTION - UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, THE LINES SHALL BE PRESSURE TESTED TO THE RATING OF THE PIPE. THE LINES SHALL BE TESTED IN SEGMENTS BETWEEN MAINLINE VALVES. BACTERIOLOGICAL TEST SAMPLES SHALL BE TAKEN AT ALL BRANCH VALVES, OR BETTER, WITH PLACEMENT AND COMPACTION METHODS IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS OR AS OTHERWISE NOTED ON THE PLANS. UNSATURABLE MATERIAL SHALL BE REMOVED FROM SITE, UNLESS THE ENGINEER APPROVES USE WITHIN LANDSCAPED AREAS.

FORCE MAIN SHALL BE PRESSURE TESTED TO THE RATING OF THE PIPE VALVES SHALL BE OPERATED TO TEST PERFORMANCE. DEPENDING UPON THE REPAIR TABLE COVERED BY THE ENGINEER, THE GRAVITY LINES SHALL BE TESTED FOR EITHER INFILTRATION OR EXFILTRATION AND INFLOW. THERE SHALL BE NO INFILTRATION/EXFILTRATION OR INFLOW ALLOWED. THE CONTRACTOR SHALL SEAL ANY PIPE, FITTING OR MANHOLE AS REQUIRED. THE CONTRACTOR SHALL PROVIDE A VIDEO TAPE OF ALL MAIN GRAVITY LINES - ALONG WITH A LOG OF LATERAL LOCATIONS. ALL ELECTRICAL AND MECHANICAL DEVICES AT LIFT STATIONS SHALL BE TESTED TO VERIFY PROPER OPERATION. PRIVATE ASPHALT PAVING - THE SUBGRADE SHALL BE TESTED FOR THE LBR VALUE AT A FREQUENCY OF ONE PER 10,000 SF. DENSITY TESTS SHALL BE PERFORMED AT A FREQUENCY OF TWO PER 20,000 SF. THICKNESS SHALL BE MEASURED AT EACH DENSITY TEST LOCATION. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.

PRIVATE ASPHALT PAVING - ASPHALTIC CONCRETE SHALL BE TESTED FOR THE FOLLOWING PARAMETERS: THICKNESS, SIEVE ANALYSIS, MIX TYPE, STABILITY % BITUMEN, AND DENSITY. THE ASPHALT SHALL BE TESTED AT A FREQUENCY OF TWO PER ACRE. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.

PUBLIC ROADWAYS - AS REQUIRED BY THE ENTITY HAVING JURISDICTION, BUT NOT LESS THAN REQUIRED FOR PRIVATE ROADWAYS AS OUTLINED ABOVE.

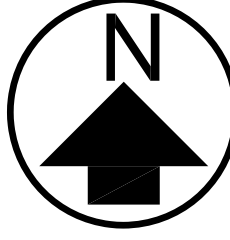
PORTLAND CEMENT CONCRETE - CONCRETE SHALL BE TESTED FOR THE FOLLOWING PARAMETERS: SLUMP, MODULES OF RUPTURE, AND 7 AND 28 DAY COMPRESSIVE STRENGTH TESTS SHALL BE PERFORMED ON SAMPLES TAKEN AT THE SITE AT A FREQUENCY OF TWO PER ACRE. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.

RETENTION/DETENTION FACILITIES - IF INCLUDED WITHIN THE PROJECT,



LEGEND

— PROPERTY BOUNDARY



GRAPHIC SCALE

(IN FEET)
1" = 60'

$$1'' = 60'$$

SHEET NO.	ROOKERY BAY RESEARCH RESERVE
	SHEET TITLE 2024 AERIAL PHOTOGRAPH
	PROJECT TITLE GOODLAND DOCK EXTENSION

Robbin C. Palmer,
State of Florida,
Professional Engineer,
License No. 90050

This item has been verified
electronically by
Robbin C. Palmer, P.E.
on the date indicated here,
11/20/2025
Signature must be verified on
any electronic copies.

DESIGNER : RCP	ISSUE DATE: 11/18/2025	SYMBOL	REVISION	DATE	REVISION	DATE
DRAWN BY: MJS	COMP. FILE No.: R0008-062305-25010894	A				
REVIEWED BY: TTH	STATE PROJECT No.: RM2401	B				

Consultant : **WELLER ENGINEERING CORPORATION**
201 W. MARION
SUITE 100
PUNTA GORDA, FL
FLORIDA 33950
941.505.1700

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

ROBIN C. PALMER
STATE OF FLORIDA
PROFESSIONAL ENGINEER
LICENSE NO. 90050
THIS ITEM HAS BEEN
DIGITALLY SIGNED AND SEALED BY
ROBIN C. PALMER, P.E.
ON THE DATE INDICATED HERE:
11/20/2025
SIGNATURE MUST BE VERIFIED ON
ANY ELECTRONIC COPIES.



LEGEND

PROPERTY BOUNDARY

FLOATING TURBIDITY BARRIER

GANGWAY

CONCRETE

FIXED DOCK/DECK

BUILDING

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL	ISSUE DATE	DESIGNER	COMP. FILE No.	STATE PROJECT No.
						11/19/2025	RCP	FLO008-0628350-25010894	RM2401
							MJG		
							TFH		
Consultant: WEELER ENGINEERING CORPORATION 201 W. MARION AVE. SUITE 1306 PUNTA GORDA, FLORIDA 33950 941.505.1700 An Apex Company									
Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300									

ENVIRONMENTAL PROTECTION DURING CONSTRUCTION:

ENVIRONMENTAL PERMIT COMPLIANCE – IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL LAWS CONCERNING ENVIRONMENTAL PROTECTION INCLUDING LAND RESOURCES, WATER RESOURCES, WETLANDS, VEGETATION AND WILDLIFE.

PROTECTION OF LAND RESOURCES – EXCEPT IN AREAS IDENTIFIED ON THE PLANS TO BE CLEARED, THE CONTRACTOR MUST NOT DEFACE, INJURE, OR DESTROY TREES OR SHRUBS OR REMOVE OR CUT THEM WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. IN THE ABSENCE OF A CLEARING PLAN, AREAS SHOWN FOR IMPROVEMENTS SHALL BE CLEARED UNLESS NOTED OTHERWISE.

PROTECTION OF WATER RESOURCES – IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, REGIONAL COUNTY AND MUNICIPAL LAWS CONCERNING POLLUTION OF WATER RESOURCES. ALL WORK MUST BE PERFORMED IN SUCH A MANNER THAT OBJECTIONABLE CONDITIONS WILL NOT BE CREATED IN PUBLIC WATERS RUNNING THROUGH, OR ADJACENT TO THE PROJECT AREA.

1. EROSION AND SEDIMENT CONTROL – ALL PRACTICABLE AND NECESSARY EFFORT SHOULD BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND THE TRANSPORT OF SEDIMENT TO SURFACE DRAINS, SURFACE WATER, OR ONTO OTHER PROPERTY BY ANY OR ALL OF THE FOLLOWING METHODS:

A. REVEGETATION AND STABILIZATION OF DISTURBED GROUND SURFACES SHOULD BE ACCOMPLISHED AS SOON AS POSSIBLE.

B. FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES.

C. PROHIBIT THE USE OF ANY CONSTRUCTION EQUIPMENT THAT LEAKS EXCESSIVE AMOUNTS OF FUEL OIL, OR HYDRAULIC FLUID.

2. ALL DISTURBED AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, AND SHALL BE STABILIZED BY SODDING, EXCEPT WHERE SEEDING AND MULCHING ARE CALLED FOR ON THE PLANS. THE LATEST VERSION OF THE F.D.O.T. ROAD AND BRIDGE SPECIFICATIONS SHALL BE USED UNLESS MORE RESTRICTIVE LOCAL SPECIFICATIONS EXIST.

CONTRACTOR RESPONSIBLE FOR STABILIZING AND MAINTAINING SLOPES AND SOD THROUGHOUT CONSTRUCTION UNTIL SUCH TIME AS APPROVED BY THE ENGINEER.

PROTECTION OF FISH AND WILDLIFE
THE CONTRACTOR MUST AT ALL TIMES PERFORM ALL WORK IN A WAY AND TAKE SUCH STEPS AS REQUIRED TO PREVENT ANY INTERFERENCE WITH OR DISTURBANCE TO FISH AND WILDLIFE. THE CONTRACTOR SHALL NOT ALTER WATER FLOWS OR OTHERWISE DISTURB NATIVE HABITATS AND JURISDICTIONAL WETLANDS LOCATED WITHIN AND/OR ADJACENT TO THE PROJECT AREA.

RECORDING AND PRESERVING HISTORICAL AND ARCHEOLOGICAL FINDS ALL ITEMS HAVING ANY APPARENT HISTORICAL OR ARCHEOLOGICAL INTEREST THAT ARE DISCOVERED IN THE COURSE OF ANY CONSTRUCTION ACTIVITIES MUST BE CAREFULLY PRESERVED. THE CONTRACTOR MUST LEAVE THE ARCHEOLOGICAL FIND UNDISTURBED AND MUST IMMEDIATELY REPORT THE FIND TO THE OWNER SO THAT THE PROPER AUTHORITY MAY BE NOTIFIED.

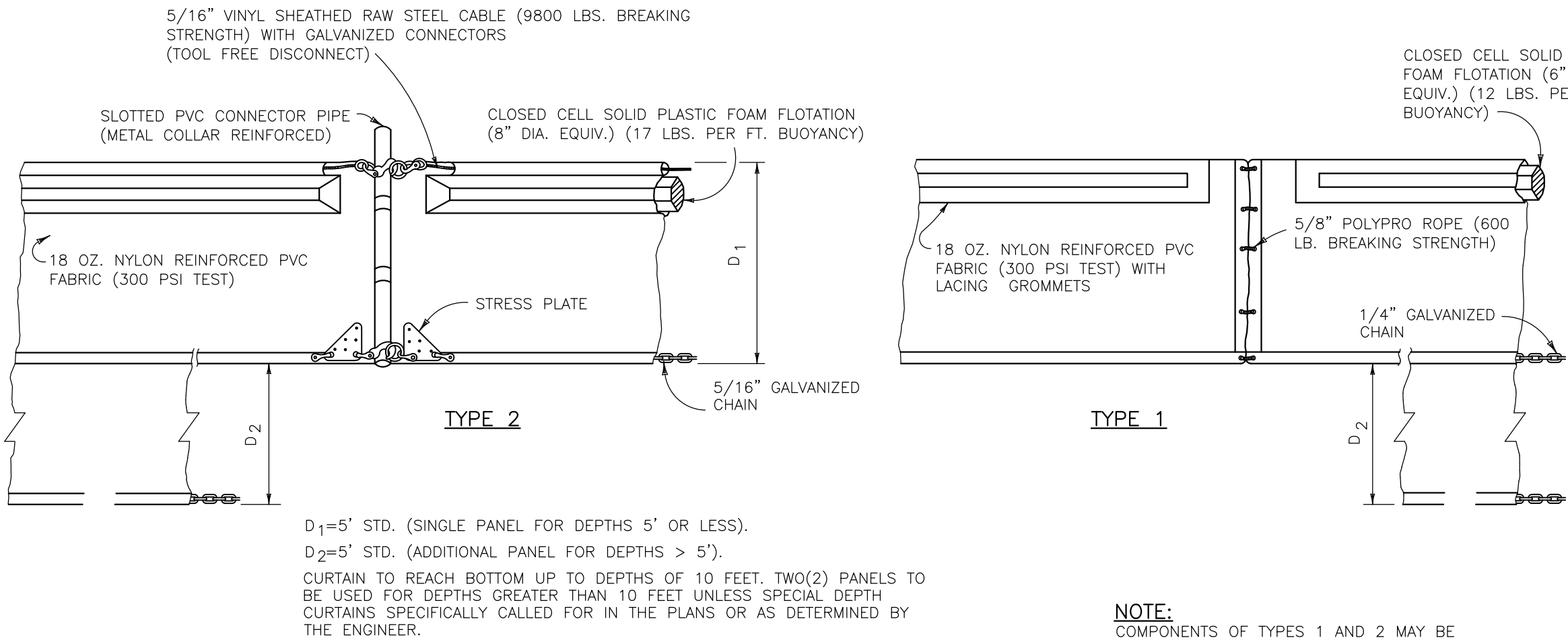
EROSION CONTROL NOTES:

1. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

2. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED DAILY AND REPAIRS MADE AS NECESSARY TO ENSURE THE PROPER AND CONTINUED FUNCTION OF THE CONTROL(S).

3. ALL EROSION AND SEDIMENTATION CONTROL SHALL REMAIN IN PLACE UNTIL A PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED.

4. UNDER NO CIRCUMSTANCES SHALL SEDIMENTS BE PERMITTED TO EXIT THE PROJECT LIMITS, INCLUDING TRACKING BY VEHICLES ONTO PAVED ROADWAYS. THE CONTRACTOR SHALL MAKE IMMEDIATE REPAIRS OR ENHANCEMENTS TO ANY EROSION CONTROL SYSTEM THAT ALLOWS THE RELEASE OF SEDIMENTS.



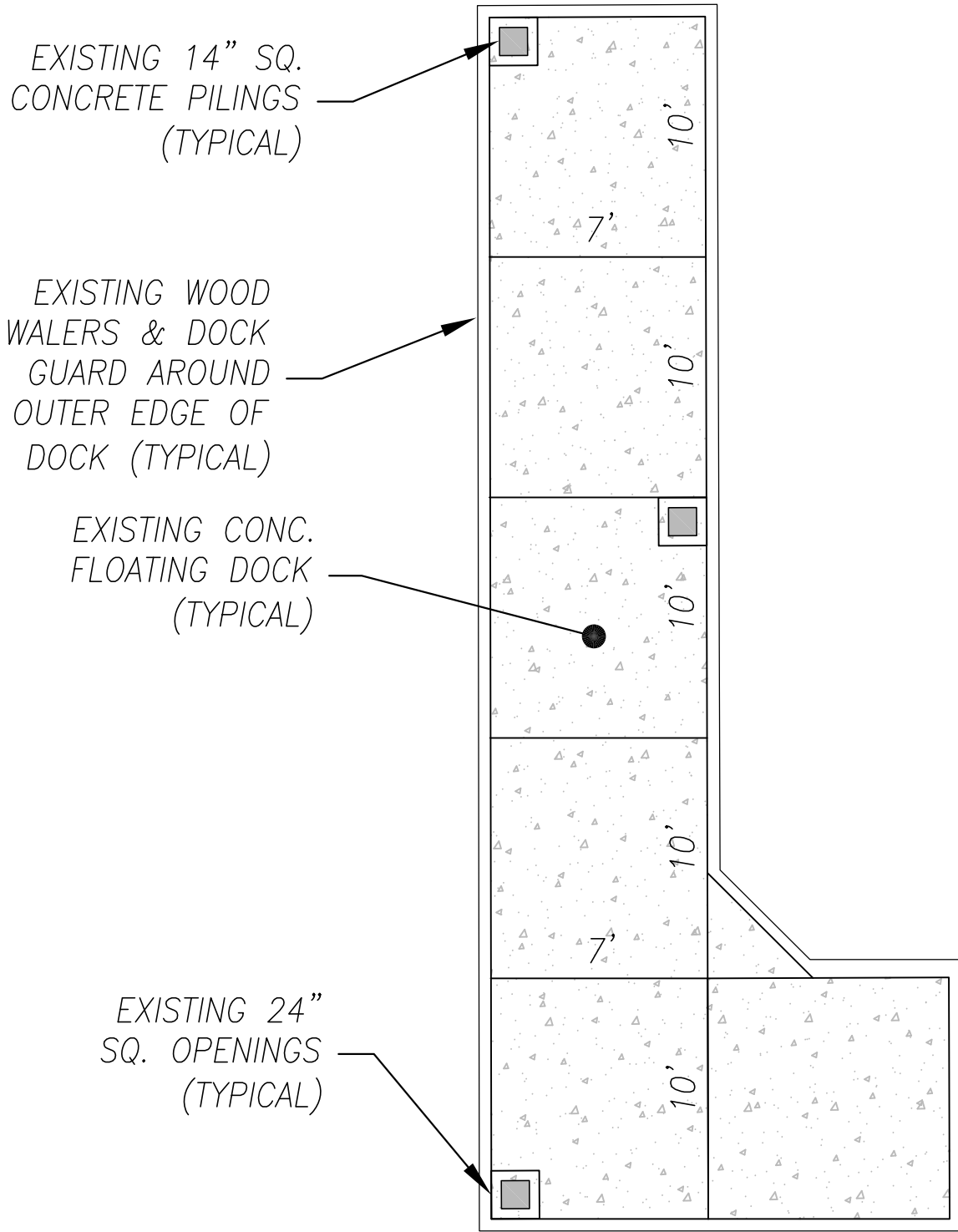
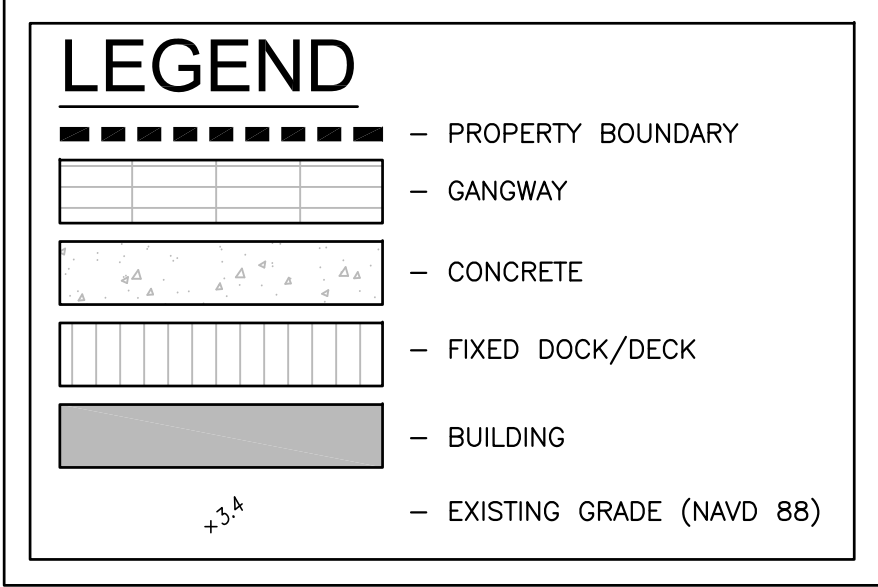
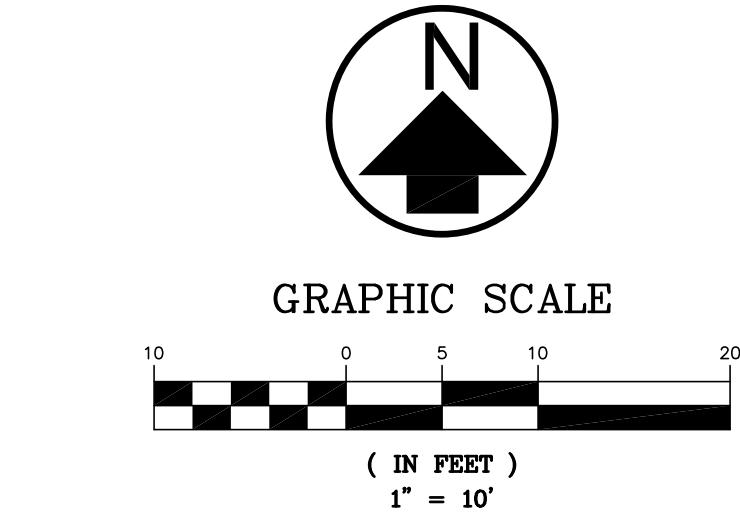
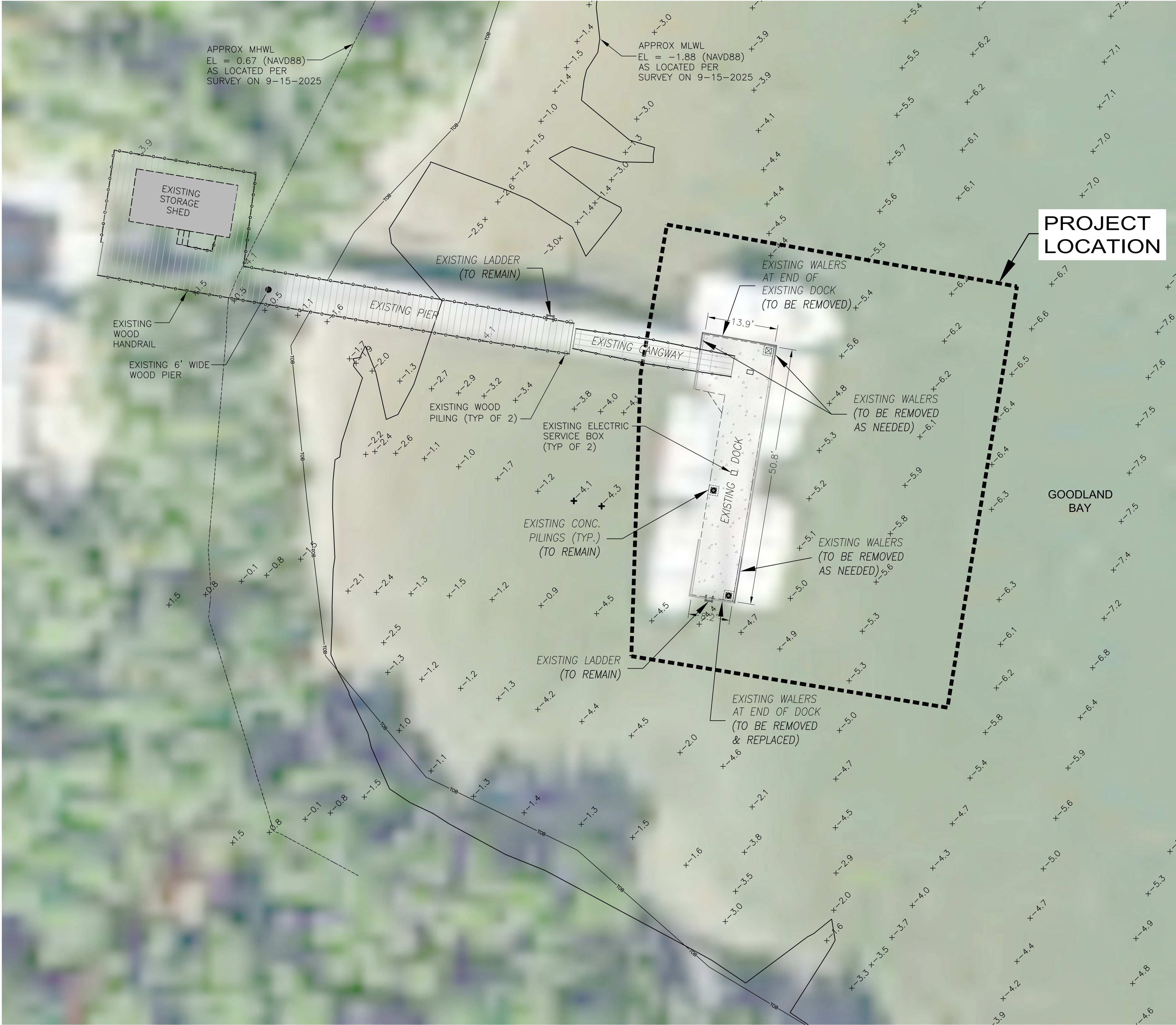
FLOATING TURBIDITY BARRIER
NOT TO SCALE

NOTE:
COMPONENTS OF TYPES 1 AND 2 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 1 AND 2 SHALL BE AS APPROVED BY THE ENGINEER.

ROOKERY BAY RESEARCH RESERVE	
BEST MANAGEMENT PLAN	
SHEET TITLE	PROJECT TITLE
	GOODLAND DOCK EXTENSION

SHEET NO.
C101

USER: Michael Gering PLOTTED THE C102-EXIST LAYOUT OF W:\2025\FLO008-0628350-25010894 FDEP Goodland Dock Drawings Goodland Dock 103025.dwg ON Nov 18, 2025 @ 9:12am



EXISTING CONCRETE
FLOATING DOCK DETAIL
NOT TO SCALE

SHEET NO.		PROJECT TITLE		SHEET TITLE	
C102		GOODLAND DOCK EXTENSION		EXISTING CONDITIONS & DEMO PLAN	
ROOKERY BAY RESEARCH RESERVE					

<div>PROFESSIONAL SEAL REQUIRED FOR ALL DRAWINGS AND DOCUMENTS PREPARED OR USED IN THE PRACTICE OF PROFESSIONAL ENGINEERING IN THE STATE OF FLORIDA</div> <div>Robyn C. Palmer, State of Florida, Professional Engineer, License No. 90050 This item has been digitally signed and sealed by Robyn C. Palmer, P.E. on the date indicated here. 11/20/2025 Signature must be verified on any electronic copies.</div>						DESIGNER : RCP		ISSUE DATE: 11/18/2025	SYMBOL	REVISION	DATE
DRAWN BY: M/G		COMP. FILE No: FLO008-0628350-25010894		(A)							
REVIEWED BY: TFH		STATE PROJECT No.: RM2401		(B)							
Consultant :		201 W. MARION AVE SUITE 1306 PUNTA GORDA, FLORIDA 33950 941.505.1700									
		WECC WHEELER ENGINEERING CORPORATION An Aesop Company									
		Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300									

USER: Michael Gering PLOTTED THE C103.DWG LAYOUT OF W:\2025\FLO008-0628350-25010894 FDEP Goodland Dock Drawings\Goodland Dock 103025.dwg, ON Nov 18, 2025 @ 9:13am



LEGEND

PROJECT LIMITS

NAVIGATABLE CHANNEL

NOTE:

NAVIGATABLE CHANNEL IS APPROXIMATED AND IS INTENDED FOR REFERENCE ONLY.

N

GRAPHIC SCALE

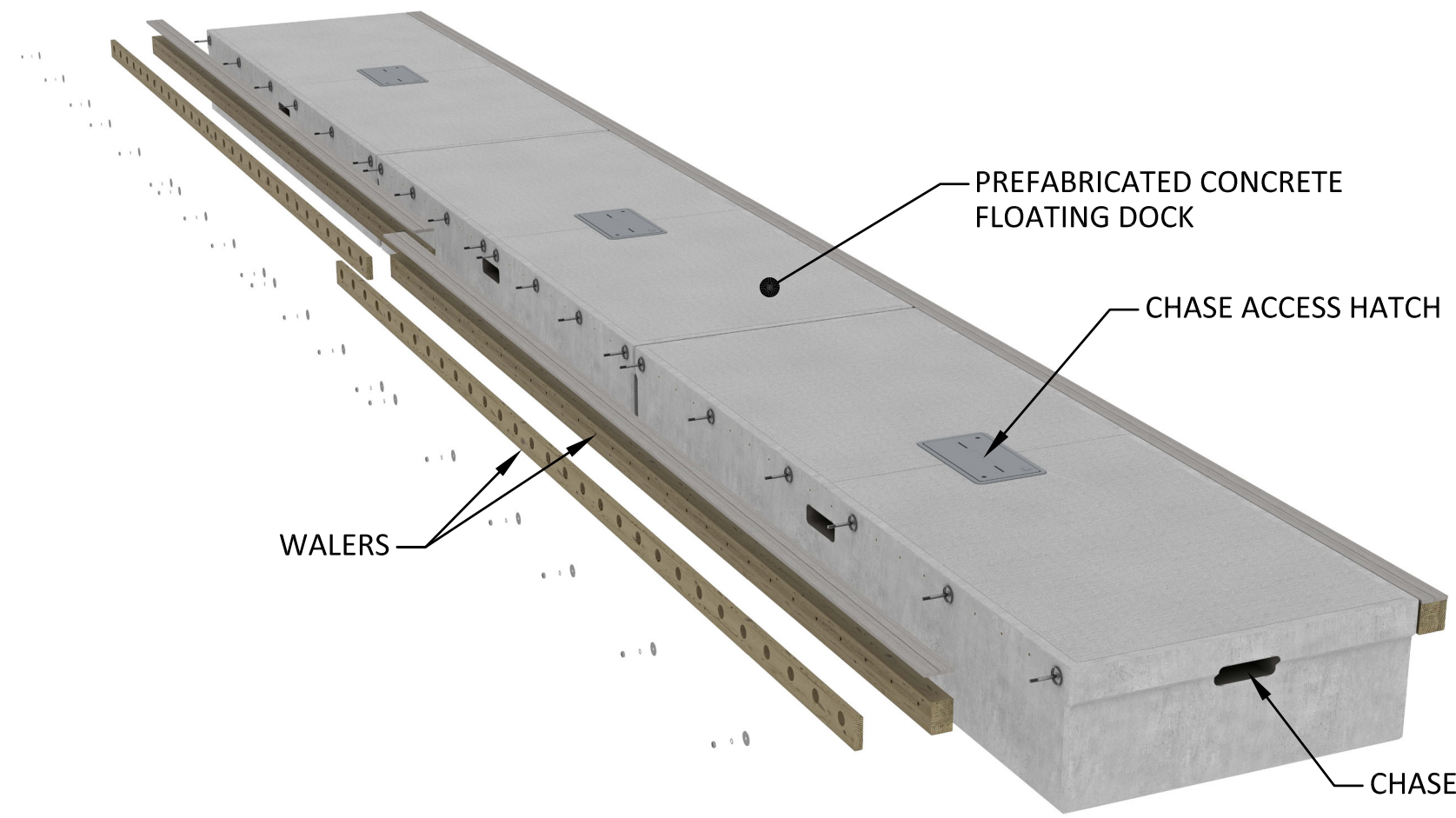
600 0 30 60 120

(IN FEET)

1" = 60'

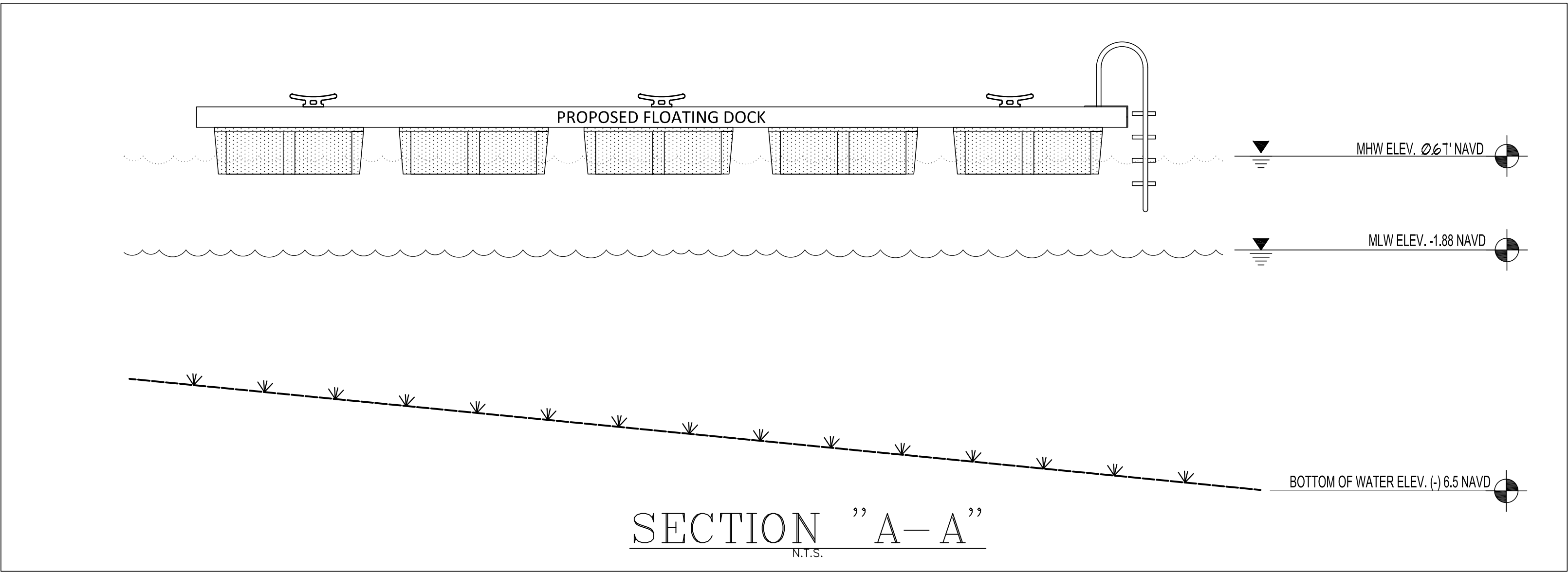
SITE GENERAL DATA:	
OWNER:	TIFF / DNR DIV REC & PARKS FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, 3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32399
PROJECT AREA:	SITE: 67.81± ACRES (TAX RECORDS)
PROPERTY ADDRESS:	2561 SAN MARCO RD. MARCO ISLAND, FLORIDA 34140
ENGINEER:	THE WEILER ENGINEERING CORPORATION ROBIN C. PALMER, P.E. NO. 90050 201 W. MARION AVE, SUITE 1306 PUNTA GORDA, FLORIDA 33950 (941)505-1700
SURVEYOR:	JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 WWW.JOHNSONENGINEERING.COM (239)334-0046 NAVD 1988
DATUM:	NAVD 1988
FLOOD_ZONE:	FLOOD_ZONE "VE" BASED ON FEMA MAP NO. 12021C0842J DATED FEBRUARY 8, 2024
FLORIDA LAND COVER AND USE CLASSIFICATION:	
EXISTING:	87 - STATE
PROPOSED USE:	87 - STATE
PROPERTY SHORELINE:	2980± LF
PROTRUSION FROM PROPERTY LINE (MHW):	
EXISTING:	126 LF (106 LF)
PROPOSED USE:	166 LF (146 LF)
PROJECT AREA:	4,451 SF / 0.1 AC.
EXISTING FLOATING DOCK AREA	= 488 SF
PROPOSED FLOATING DOCK AREA	= 450 SF
TOTAL AREA	= 938 SF
TIDAL DATUM (A.T.O.S.):	MHWL= 0.67' NAVD MLWL= -1.88' NAVD

ROOKERY BAY RESEARCH RESERVE	SHEET TITLE	OVERALL SITE PLAN
	PROJECT TITLE	GOODLAND DOCK EXTENSION
SHEET NO.		C103
DESIGNER : RCP	DRAWN BY: M/G	REVIEWED BY: T/H
ISSUE DATE: 11/19/2025		COMP. FILE No: FLO008-0628350-25010894
STATE PROJECT No: RW2401		DATE
CONSULTANT :		SYMBOL
ROBIN C. PALMER, Professional Engineer, License No. 90050 This item has been digitally signed and sealed by Robin C. Palmer, P.E. on the date 11/20/2025. Signature must be verified on any electronic copies.		SYMBOL
WEILER ENGINEERING CORPORATION 201 W. MARION AVE, SUITE 1306 PUNTA GORDA, FLORIDA 33950 941.505.1700 An Aes Company		REVISION
Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300		REVISION



TYPICAL DOCK LAYOUT

NOT TO SCALE

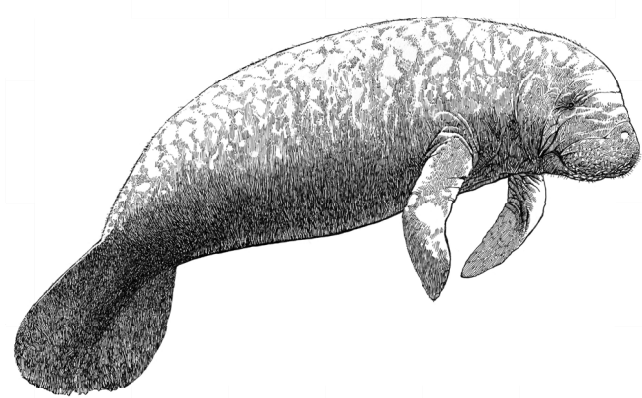


ROOKERY BAY RESEARCH RESERVE	
SHEET TITLE	CROSS SECTION & DETAILS
PROJECT TITLE	GOODLAND DOCK EXTENSION

DESIGNER : RCP		ISSUE DATE: 11/19/2025	SYMBOL	REVISION	DATE	REVISION	DATE
DRAWN BY: MJG		COMP. FILE No: FLO008-0628350-25010894	(A)			(C)	
REVIEWED BY: TFH		STATE PROJECT No.: RM2401	(B)			(D)	
Consultant :		Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300					
Robin C. Palmer, Professional Engineer, License No. 90050 This item has been digitally signed and sealed by Robin C. Palmer, P.E. on the date of 11/20/2025. Signature must be verified on any electronic copies.		201 W. MARION AVE. SUITE 1306 PUNTA GORDA, FLORIDA 33950 941.505.1700					
WELLER ENGINEERING CORPORATION		WEC An Apex Company					


USER: Michael Gering PLOTTED THE C501 Sign LAYOUT OF W:\2025\FLO008-0628350-25010894 FDEP Goodland Dock Drawings\Goodland Dock 103025.dwg, ON Nov 18, 2025 @ 9:21am

Caution Boaters Watch for Manatees



Report collisions, sick, dead or injured manatees
and any wildlife or boating law violations to:

FWC's Wildlife Alert Hotline
888-404-FWCC (3922)
cell *FWC or #FWC
Tip@MyFWC.com



SIGN "A"

18"4 X 12"11

Not to Scale

CAUTION ALLIGATORS MAY BE PRESENT



DO NOT FEED
ALLIGATORS
F.S. 372.667

REFLECTIVE
YELLOW
BACKGROUND

SIGN "G"

18"4 X 12"11

N.T.S.

PLEASE DO NOT FEED THE BIRDS

Filletted carcasses and large fish bones can
injure or kill seabirds by puncturing their throats.

Instead of tossing fish carcasses and scraps
in the water, please discard in a lidded trash can
or at home.



SIGN "D"

18"4 X 12"11

6" X 1'-0"

Recycle your line or discard it in trash containers.



Help protect Florida's manatees.
Manatees and other wildlife can easily become entangled
in or ingest discarded monofilament fishing line and
hooks, which can lead to serious injury or death.

Report collisions, sick, dead or injured manatees
and any wildlife or boating law violations to:

FWC's Wildlife Alert Hotline
888-404-FWCC (3922)
cell *FWC or #FWC
Tip@MyFWC.com




SIGN "B"

18"4 X 12"11

6" X 1'-0"

Florida Friendly Boating



Be friendly to wildlife
Harmes friend water animals. It is illegal, unhealthy, and trains
wildlife to seek out boats, increasing the risk of injury. Avoid dumping
leftover bait overboard.
Stay quiet and be aware of acoustics
separating manatee mother and calf pairs, disrupting mating pairs,
or blocking a manatee's path if it moves towards you.
Avoid collisions. It is illegal to chase, look, ride, jump on, or hit
manatees or other wildlife. Never try to "fish" or attempt to catch
birds, dolphins, manatees or sea turtles.
Avoid high manatee water areas. Manatees can suffer from
cold stress in the waterline, if disturbed or chased out of warm water
areas, it may cause death, illness or affect their ability to reproduce.
Look out below
Collisions with boats can cause injury and death among manatees, sea
turtles and dolphins.
Manatees are an endangered species native to Florida, and are
designated as the State's official marine mammal. They live in fresh
brackish and salt water areas, and eat aquatic vegetation such as
seagrass. Because they must surface to breathe, many of these slow-
moving creatures are injured or killed by boats each year.
How to recognize a manatee's presence:
Look for a seal or the water's surface
Look for a tail or nose (usually the only parts of the
manatee's body that break the surface of the water)
Listen for their breath
Five species of sea turtles are found in Florida waters; all are either
endangered or threatened. Sea turtles rest at or just below the surface
of the water and must raise their heads out of the water to breathe.
How to recognize a sea turtle's presence:
Look for a sea turtle's head or top portion
of shell at the surface of the water.
What boaters can do:
When boating, use a painted fence reduce
reflected glare from the water and make it easier to see people,
wildlife or objects underneath the surface.
Follow the speed regulations as posted.
Use speed no wake - minimum speed needed to maintain storage.
Slow speed minimum wake - fully off plane and settled in the water.
Use marked channels. Greater water depth protects you,
seagrass and wildlife.
Pick a freshwater. Designate a person to watch for wildlife, other
boaters, swimmers, or obstructions when the vessel is underway.
Save a life. Properly discard or recycle fishing line and plastics,
and cut circles or non-stainless steel hooks to prevent wildlife injury
or death due to ingestion or entanglement.
Wear a life jacket
Wildlife Alert:
1-888-404-FWCC (3922)
cell *FWC or #FWC
Report collisions, sick, dead or injured manatees or sea turtles,
and any wildlife or boating law violations.
For more information go to: MyFWC.com

SIGN "C"

30"4 X 36"11

3" X 1'-0"

SIGNAGE NOTE:
SIGN PLACEMENT SHALL BE FIELD DETERMINED

Sawfish Are Endangered Respect • Release • Report

Sawfish are protected by State and Federal laws:
It is illegal to harm, harvest, or handle sawfish



You Can Help Save Smalltooth Sawfish

Angler Guidance:

- Release sawfish immediately
- Never lift from the water or drag ashore
- Do not use gaffs or ropes to secure
- Cut the line as close to the hook as possible

Diver Guidance:

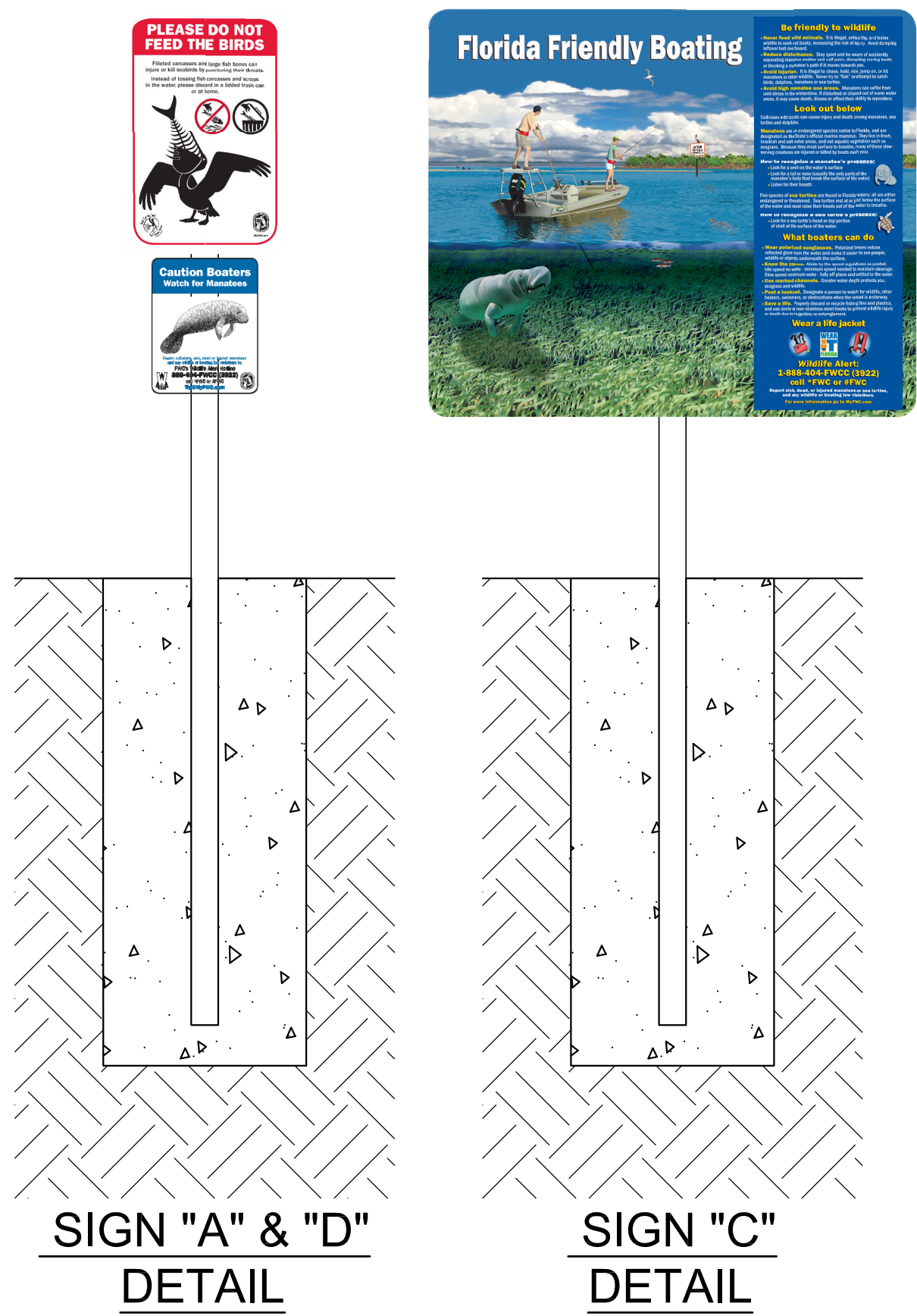
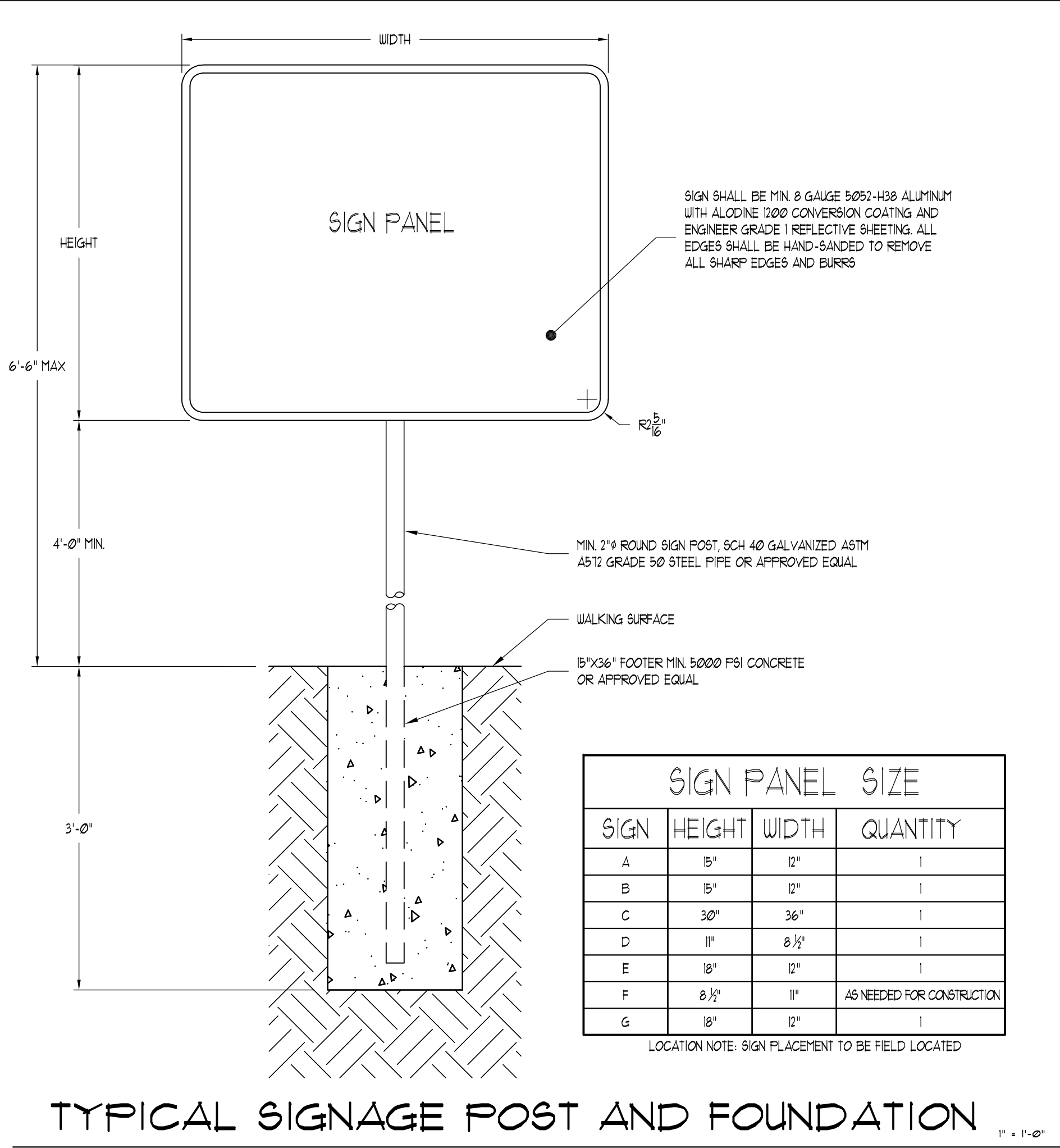
- Keep your distance
- Avoid disturbing sawfish
- Do not chase or pursue
- Never feed or touch

Share Information About Your Encounter
1-844-4SAWFISH
www.SawfishRecovery.org
The information you provide helps scientists track sawfish recovery

SIGN "E"

18"4 X 12"11

6" X 1'-0"



CAUTION: MANATEE HABITAT

All project vessels
IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must
SHUT DOWN

Report any collision with or injury to a manatee:
Wildlife Alert:
1-888-404-FWCC(3922)
cell *FWC or #FWC

NOTE:
SIGNAGE "D" IS FOR TEMPORARY PLACEMENT DURING ANY
CONSTRUCTION ACTIVITY AROUND THE WATER FRONT. IT SHALL BE
PLACED NEAR DREDGE, TUGBOAT AND WORK BOAT OPERATORS.

SIGN "F"

8 1/2" X 11"11

6" X 1'-0"

DESIGNER : RCP
DRAWN BY: M/G
REVIEWED BY: T/H
Consultant : **WECC**
WEILER ENGINEERING CORPORATION
An Apex Company

ISSUE DATE: 11/18/2025
COMP. FILE No: FLO008-0628350-25010894
STATE PROJECT No.: RW2401

201 W. MARION
AVE. SUITE 1306
PUNTA GORDA,
FLORIDA 33950
941.505.1700

ROOKERY BAY RESEARCH RESERVE
SHEET TITLE: SIGN DETAILS
PROJECT TITLE: GOODLAND DOCK EXTENSION

SHEET NO.: **C501**