CONSTRUCTION PLANS FOR RIVERSIDE BOAT RAMP

SECTION 25, TOWNSHIP 40 S, RANGE 23 E CHARLOTTE COUNTY, FLORIDA



LOCATION MAP

NOT TO SCALE

OWNER

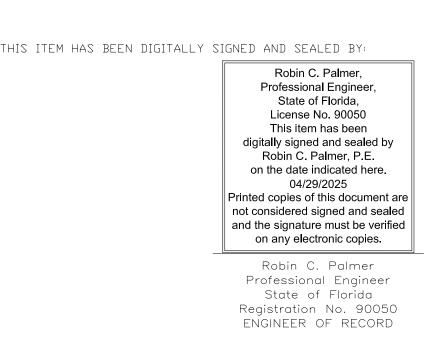
CHARLOTTE COUNTY BOCC 18500 MURDOCK CIRCLE PORT CHARLOTTE, FL 33948

PREPARED BY

THE WEILER ENGINEERING CORPORATION 201 W. MARION AVE, SUITE 1306 PUNTA GORDA, FLORIDA 33950 (941) 505-1700



EB # 6656



THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

CIVIL PLANS

C-1.0 COVER SHEET

C-2.0 GENERAL NOTES & SPECIFICATIONS

C-3.0 2020 AERIAL PHOTOGRAPH

C-4.0 BEST MANAGEMENT PLAN

C-5.0 EXISTING CONDITIONS & DEMO PLAN

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C-6.1 ENLARGED SITE PLAN

C-7.0 PAVING, GRADING, & DRAINAGE PLAN

C-7.1 ENLARGED PAVING, GRADING, & DRAINAGE PLAN

C-7.2 CROSS SECTIONS

C-7.3 STANDARD DETAILS

C-7.4 POST-DEVELOPMENT DRAINAGE SITE PLAN

C-8.0 TURNING PLAN

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Max Morgan,
Professional Engineer,
State of Florida,
License No. 94877
This item has been
digitally signed and sealed by
Max Morgan, P.E.
on the date indicated here.
04/29/2025
Printed copies of this document are
not considered signed and sealed

Max Morgan Professional Engineer State of Florida Registration No. 94877 ENGINEER OF RECORD

and the signature must be verified

on any electronic copies.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

STRUCTURAL PLANS

S-1.0 STRUCTURAL GENERAL NOTES

S-2.0 EXISTING RAMP CROSS SECTION

S-2.1 PROPOSED RAMP AND CROSS SECTION DETAILS

S-2.2 FLOATING DOCK DETAILS

S-3.0 SIGNAGE DETAILS

SHEET NO. C-1.0 WEC PROJECT NO. 20089.002

DAYTONA BEACH

STATE OF FLORIDA LOCATION MAP

NOT TO SCALE

T PIERCE

BEACH

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 AND INDEMNIFY THE OWNER AND THE ENGINEER OF RECORD, ITS OFFICERS, 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 NEGLIGENT ACTS OR OMISSIONS OF THI 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 REGULATORY AGENCIES THAT 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 NOT INITIATE 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 COMPANY SHALL ALSO DISCUSS 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

DOCUMENTS REQUIRED FOR CONTRIBUTED FACILITIES FROM DEVELOPER TO UTILITY COMPANY:

- 1. UTILITY EASEMENT(S): MUST BE RECORDED AT COUNTY CLERK OF COURT OFFICE BEFORE SUBMITTING TO UTILITY.
- 2. EASEMENT ACKNOWLEDGMENT. AFFIDAVIT.
- 4. RELEASE OF LIEN. 5. BILL OF SALE.
- 6. ASSIGNMENT OF RIGHTS UNDER UTILITY AGREEMENT: WHEN PROPERTY HAS BEEN TRANSFERRED TO A NEW OWNER. 7. RECORD DRAWINGS (AS-BUILT): MUST BE SIGNED AND SEALED BY ENGINEER OF RECORD. SUBMIT A REPRÓDUCIBLE MYLAR AND TWO COPIES OF PRINTS.
- 8. 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. 9. DESCRIPTION OF FACILITIES: A SHORT EXPLANATION DEPICTING WHAT HAS BEEN CONSTRUCTED
- 10. D.E.P. APPLICATION(S). 11. INSPECTION REPORT(S).
- 12. PRESSURE TEST REPORT(S). 13. INFILTRATION-EXFILTRATION TEST REPORT(S), INCLUDING VIDEO TAPES AND LAMPING REPORTS.
- 14. LIFT STATION INSPECTION (START-UP) REPORT(S) AND EQUIPMENT SHOP DRAWINGS. 15. BACTERIOLOGICAL TEST REPORT(S).
- 16. ENGINEER'S CERTIFICATE OF SUBSTANTIAL COMPLETION TO D.E.P. 17. SYSTEM(S) ACCEPTANCE LETTER(S) FROM D.E.P. NOTES: ITEM 1-6 & 8 TO
- BE SUPPLIED BY OWNER. ITEMS 7 & 9-17 TO BE SUPPLIED BY ENGINEER UNLESS OTHERWISE SPECIFIED BY THE UTILITY, THE CONTRACTOR SHALL NOTIFY THE

SUPERINTENDENTS OF THE WATER, GAS, SEWER, TELEPHONE, AND POWER COMPANIES, IO DAYS IN ADVANCE, THAT HE INTENDS TO START WORK IN A SPECIFIC AREA, THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE SUPPORT AND PROTECTION OF SEWERS, DRAINS, WATER LINES, GAS LINES, CONDUITS OF ANY KIND, UTILITIES OR OTHER STRUCTURES OWNED BY THE CITY, COUNTY, STATE OR BY PRIVATE OR PUBLIC UTILITIES LEGALLY OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE, RIGHT-OF-WAY, OR EASEMENT.

PROJECT SIGN (IF REQUIRED) THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A CONSTRUCTION PROJECT SIGN AT A LOCATION DIRECTED BY THE OWNER. THE WEILER ENGINEERING CORPORATION SHALL PROVIDE A SEPARATE SIGN FOR INSTALLATION BY THE CONTRACTOR AT THIS LOCATION. THESE SIGNS SHALL BE ERECTED WITHIN 15 DAYS AFTER RECEIVING A NOTICE TO PROCEED. UPON PROJECT COMPLETION, THE CONTRACTOR SHALL REMOVE THESE SIGNS AND RETURN TO WEILER ENGINEERING CORPORATION THEIR SIGN. ENVIRONMENTAL PROTECTION DURING CONSTRUCTION

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

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. 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 STRAW, FLOATING SILT, BARRIERS, STACKED SILT BARRIERS, ETC., MUST BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT FACILITIES ARE COMPLETED AND
- 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
- NSTALLED STRUCTURES. D. 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, EXCEPT RETENTION AREAS, 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

I. GENERAL

1.01 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 WORK, CHARACTER OF 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 INVESTIGATIONS

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 WHICH INDICATED 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. PROTECTION

1. EXISTING STRUCTURES AND PROPERTY: TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES AND FACILITIES: PROVIDE AND PLACE BRACING OR SHORING AS NECESSARY OR PROPER IN CONNECTION THEREWITH; BE RESPONSIBLE FOR SAFETY AND SUPPORT OF SUCH STRUCTURES; BE LIABLE FOR ANY MOVEMENT OR SETTLEMENT. ANY DAMAGE OR INJURY CAUSED THEREBY OR RESULTING THEREFROM. IF AT ANY TIME SAFETY OR ANY ADJACENT STRUCTURES APPEARS TO BE ENDANGERED, CEASE OPERATION, TAKE PRECAUTIONS 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 SUCH DAMAGE WHEN SO ORDERED; INSTALL SUCH SHORING,

BANKS, ADJACENT PAVING, STRUCTURES AND UTILITIES 3. RESPONSIBILITY: BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING TRUCTURES OR TO EQUIPMENT AND FURNISHINGS HOUSED THEREIN WHICH ARE DUE DIRECTLY OR INDIRECTLY TO CONSTRUCTION OPERATIONS, EXCEPT WHERE REMOVAL IS NECESSITATED BY SITE GRADING OR LOCATION OF NEW BUILDING. USE EVERY POSSIBLE PRECAUTION TO PREVENT INJURIES TO LANDSCAPING, DRIVES, CURBS AND WALKS ON OR ADJACENT TO SITE OF THE WORK AND REPLACE, AT NO EXPENSE TO OWNER, ANY OF SUCH DESTROYED.

INCLUDING SHEET PILING, AS MAY BE REQUIRED DURING EXCAVATION, TO PROTECT

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 ALL PROPERTY. 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, REGULATIONS AND CODES.

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 WHICH CAUSES NO RELATED DAMAGES. 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 NEAT AND WORKMANLIKE MANNER BY CRAFTSMEN SKILLED IN THE TRADE NECESSARY, TO PREVENT DAMAGE FROM EROSION OF FRESHLY GRADED AREA, WHERE ANY SETTLEMENT OR WASHING MAY OCCUR PRIOR TO ACCEPTANCE OF THE WORK, REPAIR AND RE-ESTABLISH GRADES TO THE REQUIRED ELEVATIONS AND SLOPES 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 ERODED MATERIAL.

2-02 LOCATIONS AND ELEVATIONS A. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEYS, MEASUREMENTS AND LAYOUTS REQUIRED FOR PROPER EXECUTION OF THE WORK. LAY OUT LINES AND GRADES FROM EXISTING SURVEY CONTROL SYSTEM AND AS SHOWN ON DRAWINGS.

2-0.3 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.

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.

DEWATER AS NEEDED. 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 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" AASHTO 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 AASHTO T-180. INSURE THAT THE COMPACTION OF PREVIOUSLY PREPARED FILL AREAS 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 SUBGRADE SHALL BE SCARIFIED AND COMPACTED AS SPECIFIED HEREIN BEFORE TO REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION THEREON. RE-COMPACTION OVER UNDERGROUND UTILITIES SHALL BE BY POWER-DRIVEN HAND TAMPERS.

F. COMPACTION REQUIREMENTS I. FILL UNDER LAWNS AND PLANTED:

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:

SOIL CLASSIFICATION: ONE TEST FROM EACH TYPE OF MATERIAL ENCOUNTERED AND OR PROPOSED TO BE USED. 2. LABORATORY TESTS FOR MOISTURE-CONTEST AND DENSITY ACCORDING TO AASHTO T-180: ONE TEST FOR EACH MATERIAL ENCOUNTERED AND/OR PROPOSED TO BE

3. FIELD TESTS FOR MOISTURE CONTEST AND DENSITY: ONE TEST PER LAYER OF FILL PER 5,000 SQUARE FEET OF AREA.

1.01 GENERAL

A. DEWATERING 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,

DEWATERING 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

SUPERVISION, SUPPLY, DISMANTLING, AND REMOVAL FROM THESITE OF THE

THAT ANY EXCAVATIONS 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 PONDING.

A. THE CONTROL OF ALL SURFACE AND SUBSURFACE WATER IS PART OF THE DEWATERING 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 DEWATERING 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. DEWATERING SYSTEM SHALL BE SO DESIGNED AS TO PREVENT REMOVAL OF SOIL FINES FROM THE SITE DURING THE DEWATERING OPERATION.

PORTLAND CEMENT CONCRETE PAVING

1-01 QUALITY ASSURANCE A. COMPLY WITH ACI STANDARDS RECOMMENDED PRACTICES FOR CONSTRUCTION OF CONCRETE PAVEMENTS AND CONCRETE BASES (ACI316, 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 THERETO. TESTS SHALL BE PERFORMED IN ACCORDANCE WITH HEREINAFTER SPECIFIED STANDARDS. 1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

2. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) STANDARD.

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 N INDEPENDENT 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 PROJECT SPECIFICATIONS. TESTS SHALL BE PERFORMED AS SPECIFIED UNDER THIS SECTION. 1. SUBMIT FOR REVIEW THE FOLLOWING

> A. CONCRETE DESIGN MIX 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 ANDSHALL INCLUDE A STATEMENT OF PROPOSED SEQUENCE AND SCHEDULE OF PAVING 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 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 28 DAY MODULES OR RUPTURE OF 650 PSI AS DETERMINED BY THE REQUIREMENTS OF PARAGRAPH TESTING SPECIFIED HEREINAFTER. C. JOINT SEALER: JOINT SEALING SHALL CONFORM TO FEDERAL SPECIFICATIONS

D. PREMOLDED EXPANSION JOINT FILLER: PREMOLDED EXPANSION JOINT FILLER SHALL CONFORM TO ASTM D1751-73 1-05 EXECUTION

A. COMPLY WITH AC STANDARD 316-74 AND SECTION 350, FDOT STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED HEREIN. B. FINAL GRADING: ALL CONCRETE PAVEMENT SHALL HAVE A MAXIMUM 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. CONTRACTION 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 CONCRÈTE 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 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

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

1-05 EXECUTION

1-02 REFERENCE STANDARDS

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 PAVEMENT MARKINGS BOTH AS TO THICKNESS OF COATING AND AS TO ALIGNMENT.

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 THERETO: 1. SECTIONS 710 AND 7.1 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) 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, L988. 1-03 SUBMITTALS A. SUBMIT PAINT TESTS, AS SPECIFIED IN SECTION 971 OF FDOT SPECIFICATIONS AND AS APPLICABLE TO HEREINAFTER SPECIFIED MATERIAL 1-04 MATERIALS AND COLORS

A. TIME OF APPLICATION: PAINTING SHALL BE DONE ONLY DURING DAYLIGHT

HOURS AND AS FAR AS PRACTICAL, SHALL BE TERMINATED IN TIME TO PERMIT

A. THERMOPLASTIC: IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN SECTION 711 OF THE FDOT SPECIFICATIONS. B. PAINT: IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN SECTION 971-12 CODE T-2 OF THE FDOT SPECIFICATIONS. LATEX PAINT ONLY. C. COLORS: YELLOW AND WHITE PER FOOT, OR AS INDICATED ON DRAWINGS.

SUFFICIENT DRYING BY SUNSET. 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, IMMEDIATELY BEFORE THE START OF PAINTING AND SHALL BE 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: THE 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, TRUE 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 CORRECTE

PAINT SHALL BE AS FOLLOWS; 1. FOUR INCH SOLID: 20 GALLONS PER MILE. 2. ANY OTHER WIDTH STRIPE OR MARKINGS: A DIRECT PROPORTION OF 3. HANDICAP LOGO: IN CONFORMANCE TO THE REQUIREMENTS OF THIS

F. RATE OF PAINT APPLICATION: THE MINIMUM RATE OF APPLICATION FOR

SECTION AND LOCAL CODES. G. REQUIRED FILM THICKNESS: THE MINIMUM WET FILM THICKNESS FOR ALL PAINTED AREAS SHALL BE 15 MILS. H. ALIGNMENT OF STRIPS: 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: ALL 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. DIMENSIONS: NO MARKING 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. B. CORRECTION RATES: ANY CORRECTIONS OF VARIATION IN THE WIDTH OF OR IN THE 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 MARRED 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 BY MEANS WHICH WILL NOT DAMAGE THE UNDERLYING

WHICH EXCEEDS THE PERMISSIBLE TOLERANCE IN ALIGNMENT, THAT PORTION OF THE STRIPE AFFECTED SHALL BE REMOVED AND REPAINTED IN ACCORDANCE WITH THESE SPECIFICATIONS. B. CORRECTIVE DEVICES: MISALIGNMENT, DEFECTIVE SURFACES, ETC., SHALL BE CORRECTED BY CHEMICAL AGENTS, OR BY ANY OTHER TYPE OF MECHANICAL DEVICE WHICH WILL EFFECTIVELY 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 THERMOPLASTIC UNLESS OTHERWISE INDICATED. 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 GRADIENTS. 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

1. 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

2. MINIMUM FLOWLINE GRADIENT = 90% OF DESIGN GRADIENT PAVEMENT GRADES/GRADIENTS: FLEXIBLE PAVEMENT GRADE: MINIMUM ELEVATION = DESIGN GRADE - 0.10 FEET MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FEET

2. FLEXIBLE PAVEMENT GRADIENTS: MINIMUM GRADIENTS = 100% DESIGN GRADIENT (CROSS SLOPE AND LONGITUDINAL SLOPE) 3. RIGID (CONCRETE) PAVEMENT GRADE:

MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FEET

MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FEET 4. RIGID PAVEMENT GRADIENTS:

B) MAXIMUM HANDICAP 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

A) MINIMUM GRADIENTS = 90% OF DESIGN GRADIENT

(CROSS SLOPE AND LONGITUDINAL SLOPE)

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

CONSTRUCTION.

2. MINIMUM LINE GRADIENT = 90% OF DESIGN GRADIENT B. ALIGNMENT/LOCATION OF APPURTENANCES: AS ALLOWED BY THE APPLICABLE UTILITY AND/OR LOCAL GOVERNMENTAL ENTITY. CONTRACTOR SHALL CONFIRM AND DOCUMENT THIS PRIOR TO

SUPPLEMENTAL SPECIFICATIONS

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 SITE DEVELOPMENT STANDARDS AND CODES OF THE REGULATORY AGENCIES ASSOCIATED WITH THIS PROJECT. THE LATEST VERSION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE CONSTRUCTION STANDARD SPECIFICATIONS AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS SHALL BE INCLUDED WITHIN THE PROJECT SPECIFICATIONS. UNLESS OTHERWISE NOTED, EITHER ON THE PLANS OR WITHIN THE SPECIFICATIONS, THE APPLICABLE SECTIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS SHALL APPLY INCLUDING REFERENCES THEREIN. THE GENERAL DESCRIPTION OF THE NATURE OF THE WORK SHALL BE SUFFICIENT CORRELATION TO THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, EXACT ITEM DESCRIPTION IS NOT REQUIRED. IN THE EVENT THERE ARE CONFLICTS BETWEEN SPECIFICATIONS OR REQUIREMENTS, THE MOST RESTRICTIVE (CONSERVATIVE) SPECIFICATION OR REQUIREMENT SHALL BE USED.

POTABLE WATER DISTRIBUTION/WASTEWATER COLLECTION INSTALLATION UNLESS OTHERWISE NOTED ON THE PLANS, 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 FOR ALL PUMP STATIONS, MAIN LINES, SERVICES, AND APPURTENANCES. IF STANDARDS AND SPECIFICATIONS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CONFORM WITH THE LATEST STANDARDS AND SPECIFICATIONS ADOPTED BY CHARLOTTE COUNTY UTILITIES, LOCAL GOVERNMENTAL REGULATIONS, OR THE MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES, WHICHEVER IS SPECIFICALLY THE MOST RESTRICTIVE. A COPY OF THE CHARLOTTE 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 BACKFILLING OPERATIONS IN ACCORDANCE WITH THE POTABLE WATER/ WASTEWATER INSTALLATION SPECIFICATIONS, LOCAL GOVERNMENTAL REGULATIONS OR STANDARDS, F.D.O.T STANDARDS AND SPECIFICATIONS OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES, WHICHEVER IS SPECIFICALLY THE MOST RESTRICTIVE.

IF UNSUITABLE 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. UNSUITABLE MATERIALS 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 LINE TERMINATION POINTS OR CONNECTION POINTS. AND ALONG THE MAIN LINES AT DISTANCES NOT TO EXCEED 2,640 FEET. ALL HYDRANTS AND VALVES SHALL BE OPERATED TO TEST PERFORMANCE. WASTEWATER COLLECTION - UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, THE FORCE MAIN SHALL BE PRESSURE TESTED TO THE RATING OF THE PIPE VALVES SHALL BE OPERATED TO TEST PERFORMANCE. DEPENDING UPON WATER TABLE CONDITIONS DETERMINED 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 OPERATIONAL STATUS. MAINTENANCE MANUALS SHALL BE PROVIDED. PRIVATE ROADWAY/PARKING SUBGRADE - 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 ROADWAY/PARKING BASE - THE BASE 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 10,000 SF. A SIEVE ANALYSIS SHALL BE PERFORMED AT A FREQUENCY OF ONE PER ACRE. THICKNESS SHALL BE MEASURED AT EACH DENSITY TEST LOCATION. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.

SPHALT PAVING - ASPHALTIC CONCRETE SHALL BE TESTED FOR $^{ t t}$ 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, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND PERFORM A DRAW DOWN AND CAPACITY TEST OF THE FACILITIES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT WATER AND ACCEPTABLE MEANS TO MEASURE THE WATER VOLUMES PROVIDED, IF REQUIRED BY THE ENGINEER, IF A FILTRATION SYSTEM IS INCLUDED WITHIN THE PROJECT, THE FILTER MEDIA SHALL BE TESTED FOR COMPLIANCE WITH ALL CURRENT SPECIFICATIONS OF THE WATER MANAGEMENT DISTRICT. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.

IN ADDITION TO THE ENVIRONMENTAL PROTECTION DURING CONSTRUCTION SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM THE FOLLOWING IN THE ORDER LISTED:

1. PRIOR TO COMMENCEMENT, PROVIDE NOTIFICATION TO THE LOCAL WATER MANAGEMENT DISTRICT AND LOCAL GOVERNMENT OFFICES. 2. ERECT A TURBIDITY SCREEN ON ANY DOWNSTREAM SYSTEM WHICH RECEIVES RUNOFF FROM THE PROJECT. INSTALL OUTFALL CONTROL STRUCTURE AND FILTRATION SYSTEM IF INCLUDED

3. PROVIDE A TEMPORARY FILTER CLOTH COVERED WITH GRAVEL OVER ANY PROPOSED FILTERS. 4. INSTALL A TEMPORARY TURBIDITY SCREEN AT ALL CONTROL STRUCTURES. 5. CONSTRUCT A TEMPORARY PERIMETER BERM AS NECESSARY TO DIRECT ALL RUNOFF WITHIN ANY AREA PLANNED FOR CLEARING

6. MAINTAIN FILTER DURING CONSTRUCTION TO PROVIDE CONTINUOUS OPERATION. 7. UPON PERFORMING FINAL GRADING, THE CONTRACTOR SHALL REMOVE ALL SILTS, CLAYS AND OTHER DELETERIOUS MATERIAL FROM THE BOTTOM OF ALL STORMWATER MANAGEMENT AREAS PRIOR TO GRASSING 8. AFTER ACHIEVING A NON-ERODIBLE COVER OF GRASS, REMOVE TEMPORARY FILTER CLOTH AND GRAVEL OVER FILTERS AND REPLACE WITH NEW FILTER

CLOTH AND COVER MATERIAL IN ACCORDANCE WITH THE PLANS AND

SPECIFICATIONS 9. NOTIFY THE OWNER FOR FINAL INSPECTION. 10. UPON FINAL APPROVAL FROM OWNER, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES.

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Robin C. Palmer.

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

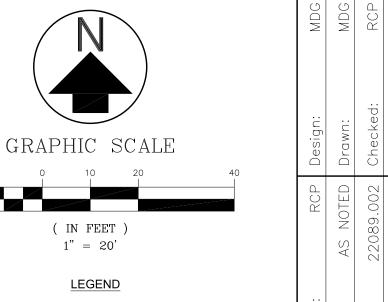
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C-3.0

GRAPHIC SCALE 1" = 10'

LEGEND

■ ■ DENOTES PROJECT LIMITS → DENOTES FLOATING BARRIER

- DENOTES PALM TREE

- DENOTES OAK TREE - DENOTES CONCRETE

- DENOTES RIP RAP

COFFERDAM NOTE: COFFERDAM SHALL BE CONSTRUCTED USING STEEL SHEET PILES. CONTRACTOR SHALL BE RESPONSIBLE FOR COFFERDAM DESIGN CONSTRUCTION AND REMOVAL.

- 1. INSTALLATION OF ALL SHEET PILES SHALL BE BY VIBRATORY HAMMER OR JETTING. IMPACT HAMMER IS PROHIBITED.
- 2. ANY MATERIAL GENERATED BY THE PROJECT MUST BE REMOVED AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL COUNTY, STATE AND FEDERAL REQUIREMENTS.
- 3. ANY DUMPSTER MUST BE OWNED BY THE PRIME CONTRACTOR OR IT MUST BE RENTED FROM THE CHARLOTTE COUNTY WASTE HAULING FRANCHISEE (WASTE MANAGEMENT SANITATION).
- 4. WORK MUST BE PERFORMED MONDAY THROUGH FRIDAY ON NON-COUNTY HOLIDAYS FROM 7 AM TO 6 PM. OCCASIONAL SATURDAY WORK MAY BE PERMITTED IF AGREED UPON IN ADVANCE BETWEEN COUNTY, CEI AND CONTRACTOR.
- 5. CONTRACTOR MAY USE THE PARK AREA FOR STAGING. ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OR STAGING MUST BE REPAIRED AT THE CONTRACTOR'S

SPOIL PILE SHALL BE REMOVED FROM SITE AND DISPOSED OF AT THE CHARLOTTE COUNTY LANDFILL IN ACCORDANCE WITH ALL REGULATING GUIDELINES AND PRIOR TO COMPLETION OF PROJECT

ALL DISTURBED AREAS INCLUDING UNDER AND AROUND SPOIL PILE TO BE RESTORED EQUAL TO OR BETTER THAN EXISTING CONDITIONS

TURBIDITY MONITORING PLAN

TURBIDITY MONITORING WILL BE CONDUCTED DURING THE DURATION OF THE IN-WATER WORK AND WHEN CONSTRUCTION SITE ACTIVITIES OR CONDITIONS COULD RESULT IN TURBID DISCHARGES. TURBIDITY MONITORING STATIONS WILL CONSIST OF TWO (2) SAMPLING STATIONS. THE BACKGROUND STATION WILL BE LOCATED UPSTREAM OF ALL IMPACT AREAS SO AS TO NOT BE INFLUENCED BY CONSTRUCTION ACTIVITIES. COMPLIANCE STATIONS ARE LOCATED OUTSIDE THE TURBIDITY CONTROL MEASURES AND WILL BE USED TO DOCUMENT COMPLIANCE WITH STATE WATER QUALITY CRITERIA (CHAPTER 62-302 F.A.C. PRIOR TO CONSTRUCTION ACTIVITIES, BACKGROUND AND TURBIDITY STATIONS SHALL BE ESTABLISHED. THE BACKGROUND STATION SHALL BE ESTABLISHED AT APPROXIMATELY 200 FEET WATERWARD FROM THE MIXING ZONE BOUNDARY. THE BACKGROUND STATION SHALL BE MARKED WITH A TEMPORARY BUDY AND REMAIN DURING CONSTRUCTION. TWO TURBIDITY STATIONS SHALL BE ESTABLISHED: ONE NORTH AND ONE IN THE SOUTH PORTION. DEPENDING ON TIDAL FLOW, ONE OR THE

BACKGROUND TURBIDITY SAMPLE SHALL BE TAKEN PRIOR TO THE START OF WORK EACH DAY. WHILE THE CONSTRUCTION ACTIVITY IS IN PROGRESS, TURBIDITY SAMPLES SHALL BE COLLECTED THIRTY MINUTES AFTER THE CONSTRUCTION ACTIVITY HAS COMMENCED, FOUR HOURS AFTER INITIAL CONSTRUCTION ACTIVITY BEGAN AND AT THE END OF ACTIVITIES FOR THAT DAY. ALL TURBIDITY SAMPLES SHALL BE TAKEN AT MID-DEPTH.

TURBIDITY MONITORING WILL OCCUR DAILY, EVERY FOUR HOURS DURING CONSTRUCTION. COMPLIANCE STATION SAMPLING WILL OCCUR AT MID-DEPTH WITHIN THE DEEPEST PORTION OF ANY CONSTRUCTION-GENERATED TURBIDITY. BACKGROUND STATION SAMPLING WILL OCCUR AT MID-DEPTH OUTSIDE OF ANY CONSTRUCTION-GENERATED TURBIDITY.

THE COMPLIANCE STATION LOCATIONS SHALL BE CONSIDERED THE LIMITS OF THE TEMPORARY MIXING ZONE FOR TURBIDITY ALLOWED DURING CONSTRUCTION. IF MONITORING REVEALS COMPLIANCE STATION TURBIDITY LEVELS 29 NTUS ABOVE THE BACKGROUND STATION TURBIDITY LEVEL, CONSTRUCTION ACTIVITIES SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL CORRECTIVE MEASURES HAVE BEEN TAKEN AND TURBIDITY HAS RETURNED TO ACCEPTABLE LEVELS. ANY SUCH OCCURRENCE SHALL ALSO BE IMMEDIATELY REPORTED TO THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, SARASOTA OFFICE. A LOG OF THE MONITORING DATA SHALL BE MAINTAINED AT THE SITE AND SUBMITTED TO THE SOUTHWEST FLORIDA WATER A LUG UF THE MUNITURING DATA SHALL BE MAINTAINED AT THE SITE AND SUBMITTED TO THE SUCTIMEST FLURIDA WATER MANAGEMENT DISTRICT, ATTENTION SARASOTA SERVICE OFFICE ENVIRONMENTAL MANAGER EVERY WEEK. THE SUBMITTED MONITORING REPORT SHALL CONTAIN THE FOLLOWING INFORMATION: (1) PERMIT NUMBER; (2) DATES OF SAMPLING AND ANALYSIS; (3) A STATEMENT DESCRIBING THE METHODS USED IN COLLECTION, HANDLING, STORAGE AND ANALYSIS; (4) A MAP INDICATING THE SAMPLING LOCATIONS AND (5) A STATEMENT BY THE INDIVIDUAL RESPONSIBLE FOR THE IMPLEMENTATION OF THE SAMPLING PROGRAM CONCERNING THE AUTHENTICITY, PRECISION, LIMITS OF DETECTION AND ACCURACY OF THE DATA. MONITORING REPORTS SHALL ALSO INCLUDE THE FOLLOWING INFORMATION FOR EACH SAMPLE THAT IS TAKEN:

- A. MAP WITH STATION ID NUMBERS
- B. DATE AND TIME OF SAMPLING
 C. DEPTH OF WATER AND SAMPLE DEPTHS
 D. ANTECEDENT WEATHER CONDITION
- . TURBIDITY SAMPLE RESULTS IN NTU'S . QA/QC RESULTS G. CONSTRUCTION ACTIVITIES BEING PERFORMED H. REPORT NUMBER
- THE FOLLOWING QA/QC PROTOCOL WILL BE FOLLOWED DURING ALL SAMPLING EVENTS:
- A. THE PORTABLE TURBIDITY METER SHALL BE CALIBRATED PURSUANT TO MANUFACTURERS INSTRUCTIONS BEGINNING EACH DAY AND EACH TIME THE INSTRUMENT IS USED. B. CALIBRATIONS WILL BE PERFORMED AGAINST A STANDARD VALUE THAT IS IN RANGE OF VALUES EXPECTED ON-SITE. C. SUBMIT ALL CALIBRATION PROCEDURES WITH THE WEEKLY MONITORING REPORTS.

TURBIDITY MONITORING NOTES:

1. BACKGROUND TURBIDITY SAMPLE SHALL BE TAKEN PRIOR TO THE START OF WORK EACH DAY TO ESTABLISH BACKGROUND LEVEL. 2. IF TURBIDITY SAMPLE IS GREATER THAN 29 NTU ABOVE BACKGROUND LEVEL, ALL WORK IS TO STOP AND THE ENGINEER IS

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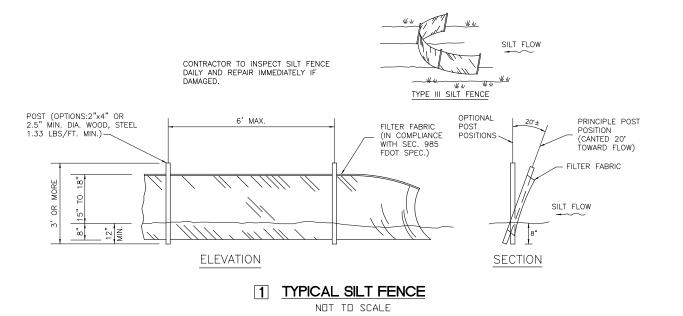
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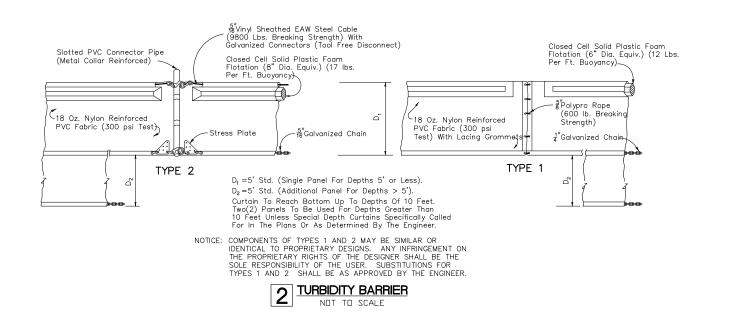
EROSION CONTROL MAINTENANCE SCHEDULE

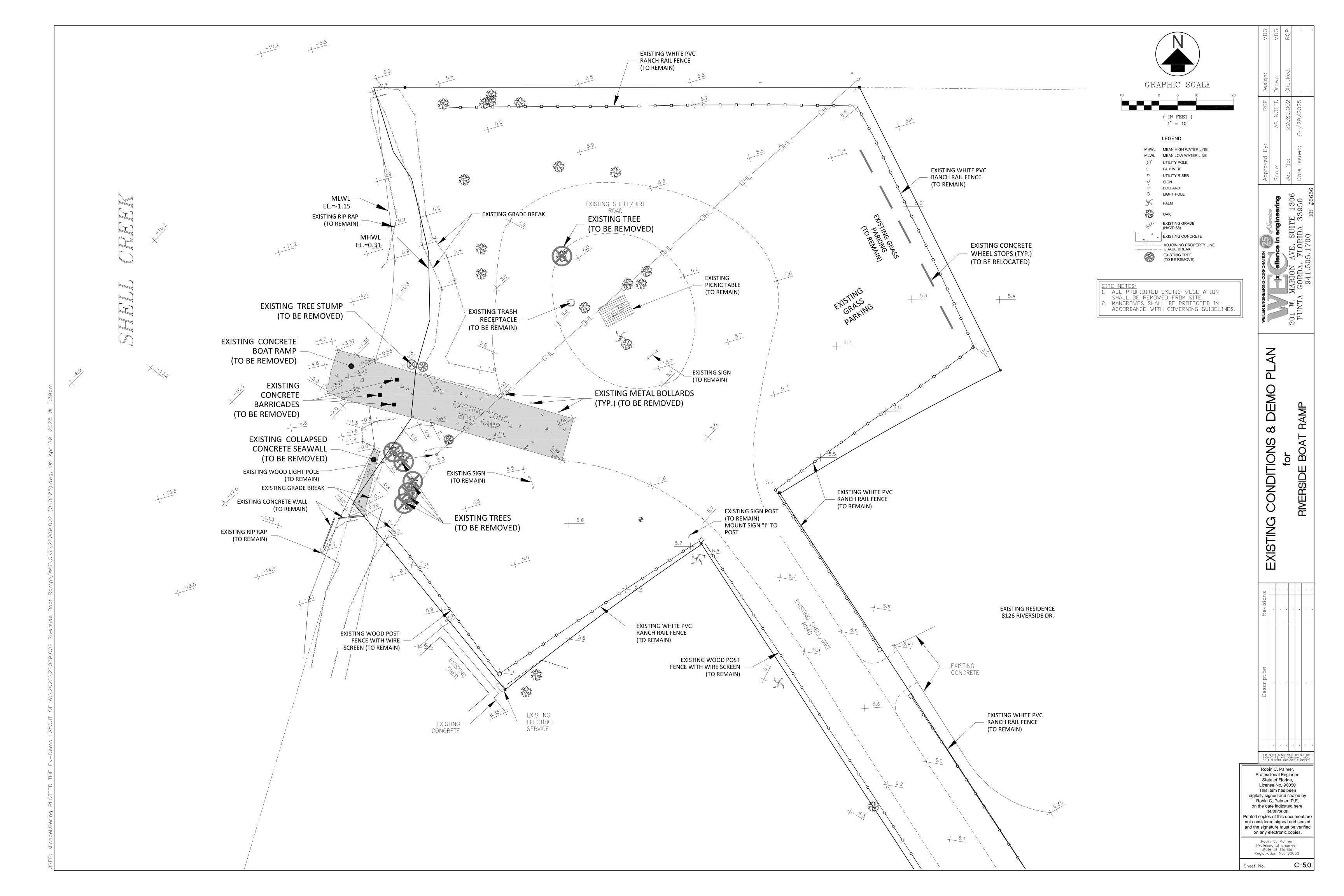
THE CONTRACTOR SHALL INSTALL SILT FENCE, SYNTHETIC BALES, AND AND OTHER EROSION CONTROL DEVICES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION. THESE INSTALLATIONS AS SHOWN ON THE DRAWINGS SHALL BE CONSIDERED THE MINIMUM EROSION/SILTATION PROTECTION REQUIRED FOR THE SITE. IN ADDITION THE ENGINEER, OWNER, OR OWNER'S REPRESENTATIVE MAY DEEM IT NECESSARY TO INSTALL PROTECTIVE FACILITIES ELSEWHERE ON THE SITE.

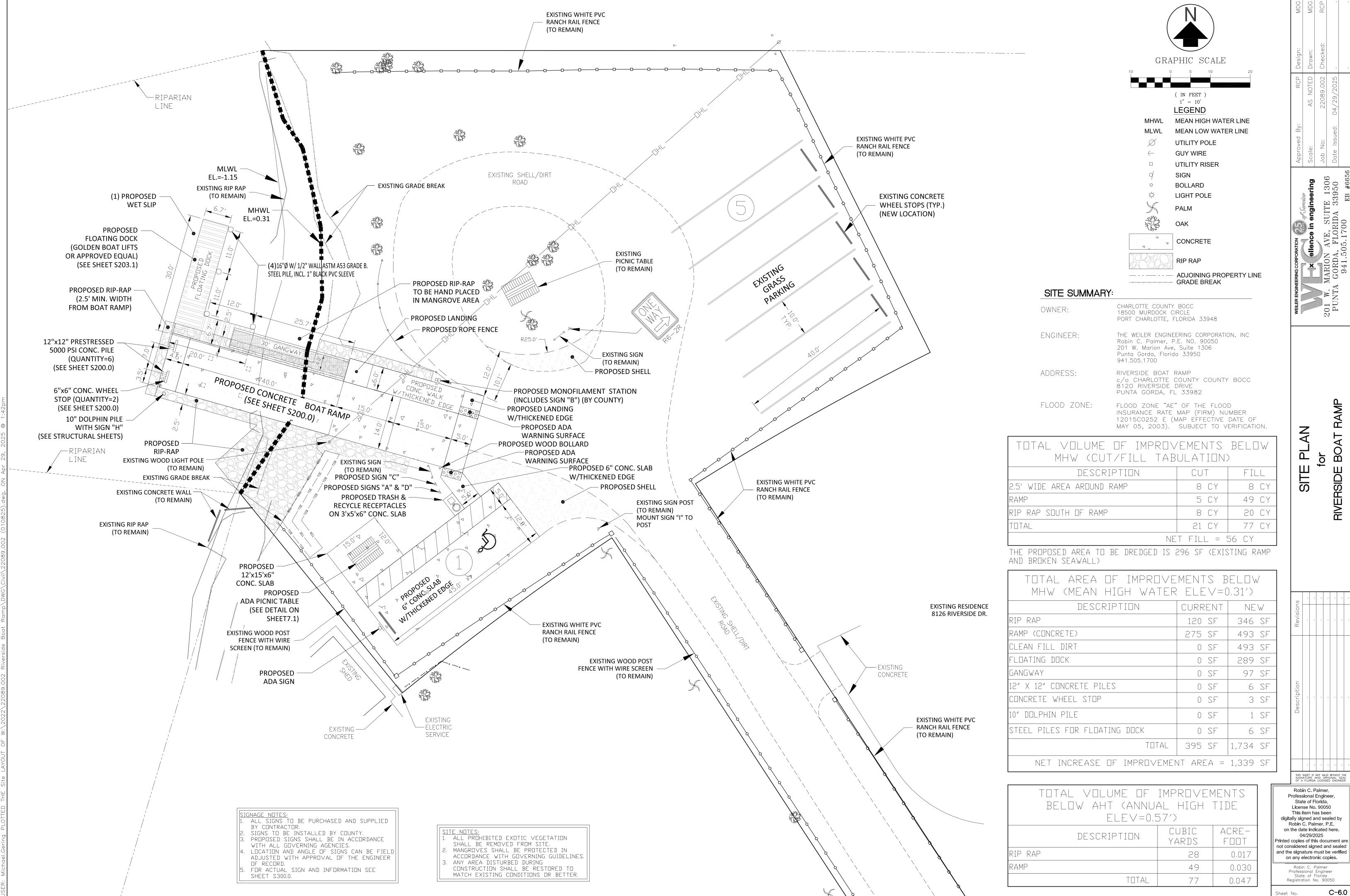
THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION PROTECTION FACILITIES THROUGH COMPLETION OF CONSTRUCTION. THE CONTRACTOR SHALL PERFORM DAILY INSPECTIONS OF THE FACILITIES TO ENSURE THAT THE EROSION PROTECTION FACILITIES ARE MAINTAINING THEIR PROTECTION FUNCTIONS AND INTEGRITY.

ALL EROSION PROTECTION FACILITIES SHALL BE REMOVED AFTER CONSTRUCTION COMPLETION, AND WHEN A VEGETATIVE COVER HAS BEEN WELL ESTABLISHED OVER THE CONSTRUCTED AREAS. PER THE PLANS: THE CONTRACTOR SHALL REMOVE PROTECTION FACILITIES ONLY UPON APPROVAL BY THE ENGINEER, DWNER, DR DWNER'S REPRESENTATIVE.





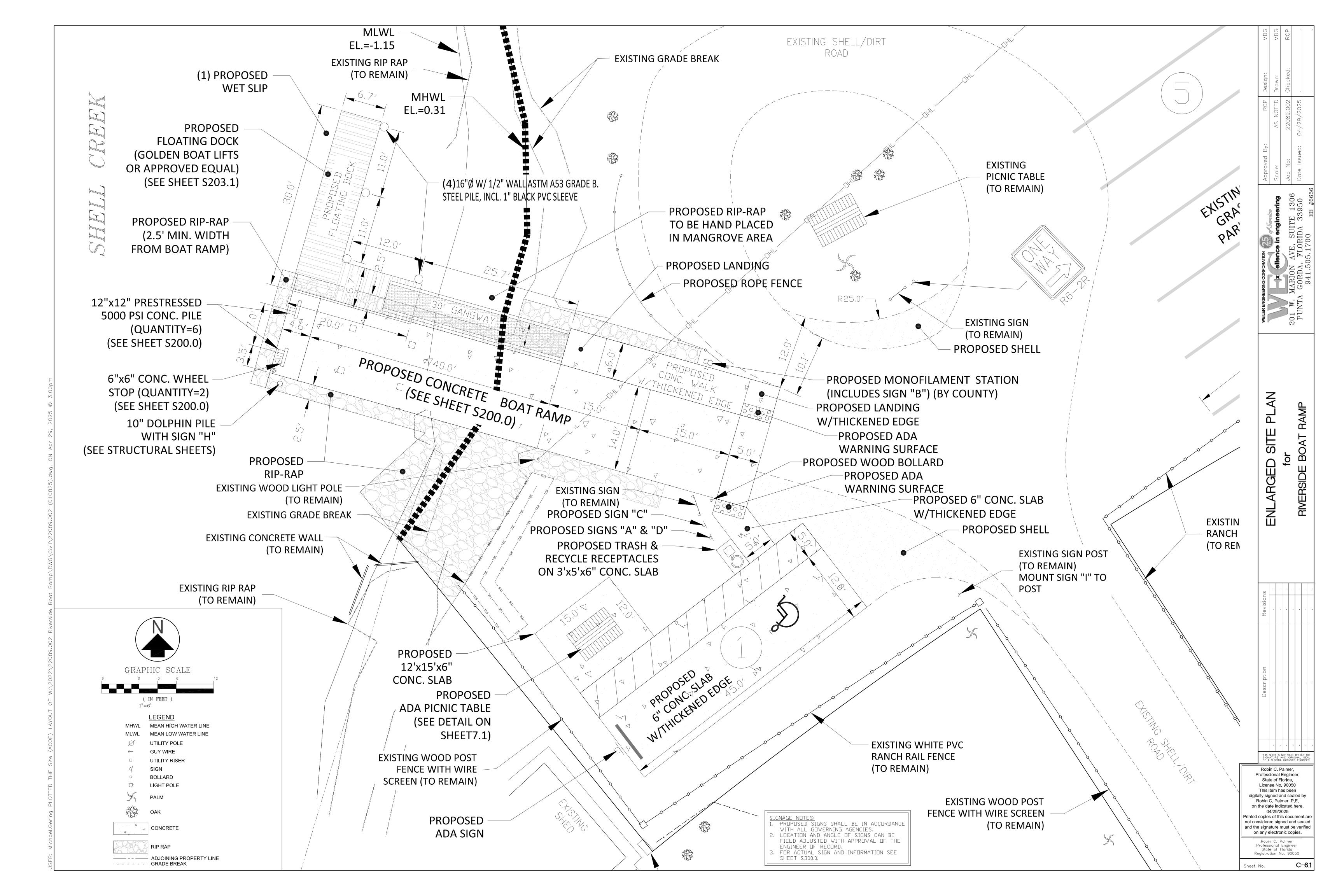




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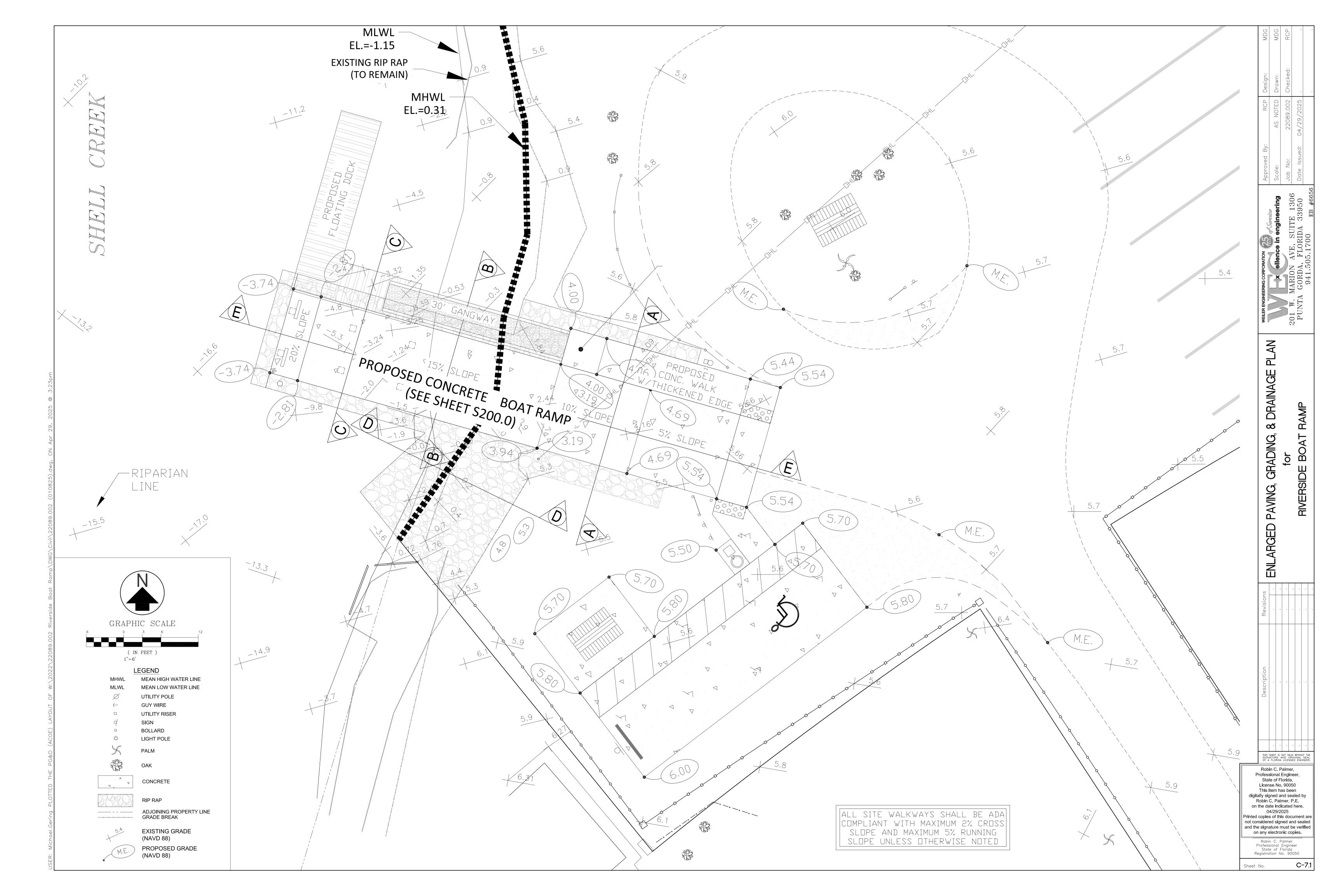


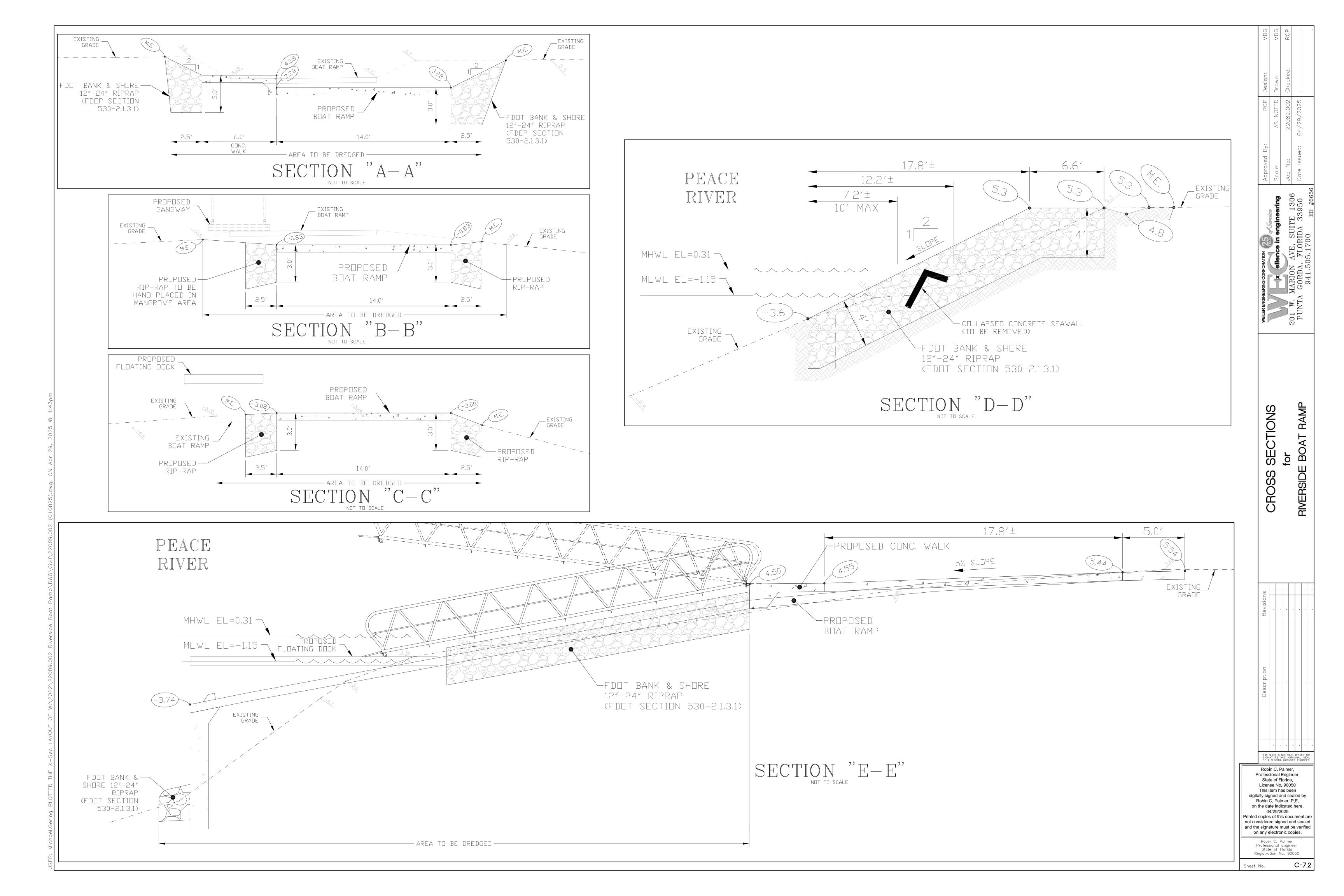


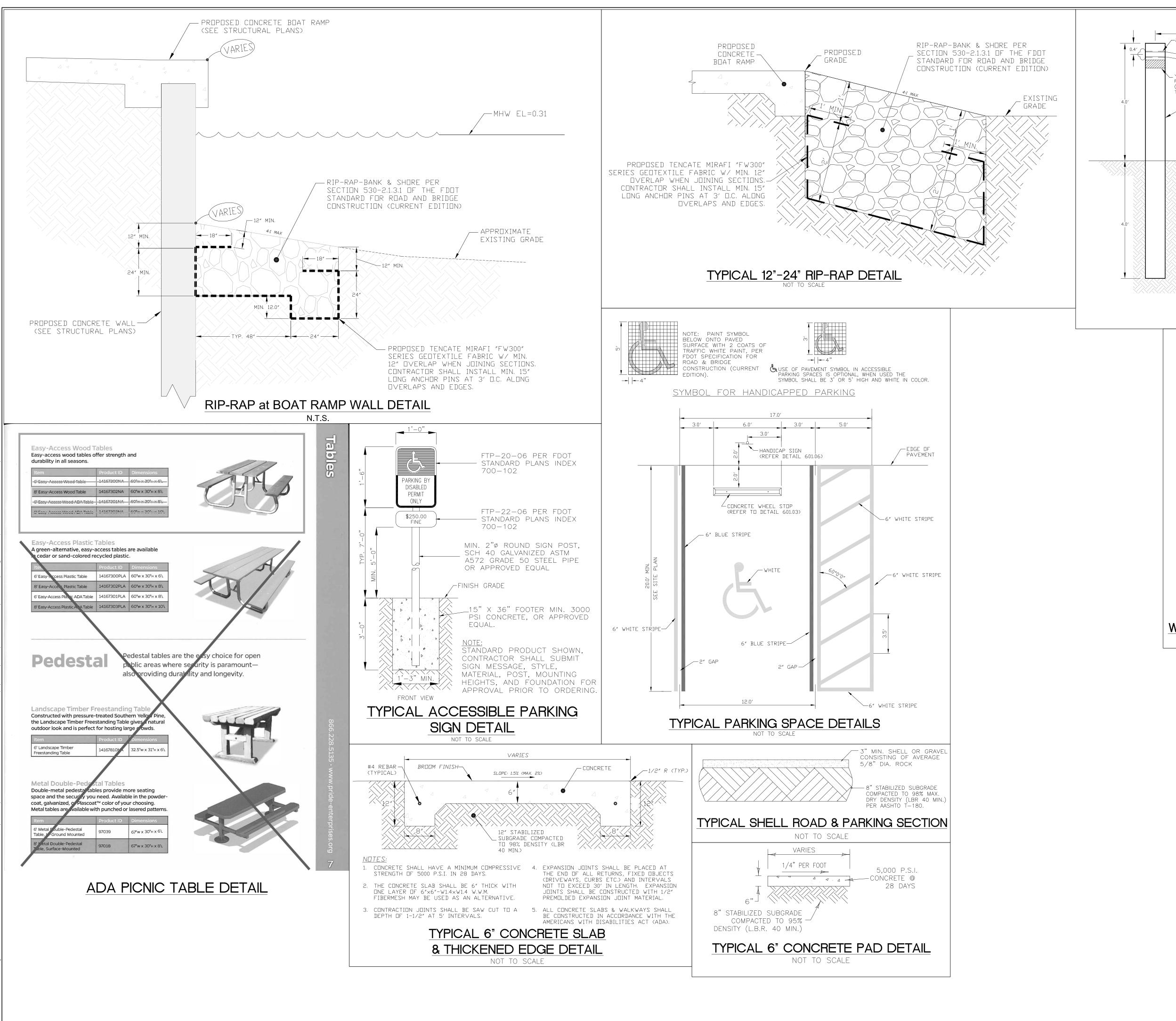
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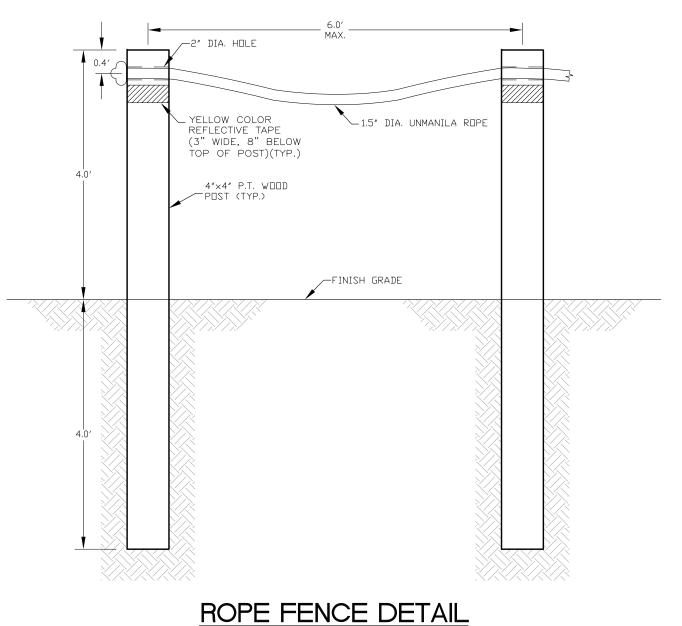
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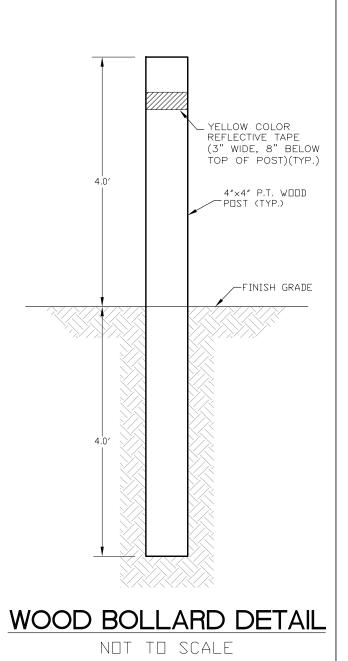








NOT TO SCALE



STANDARD DETAILS
for

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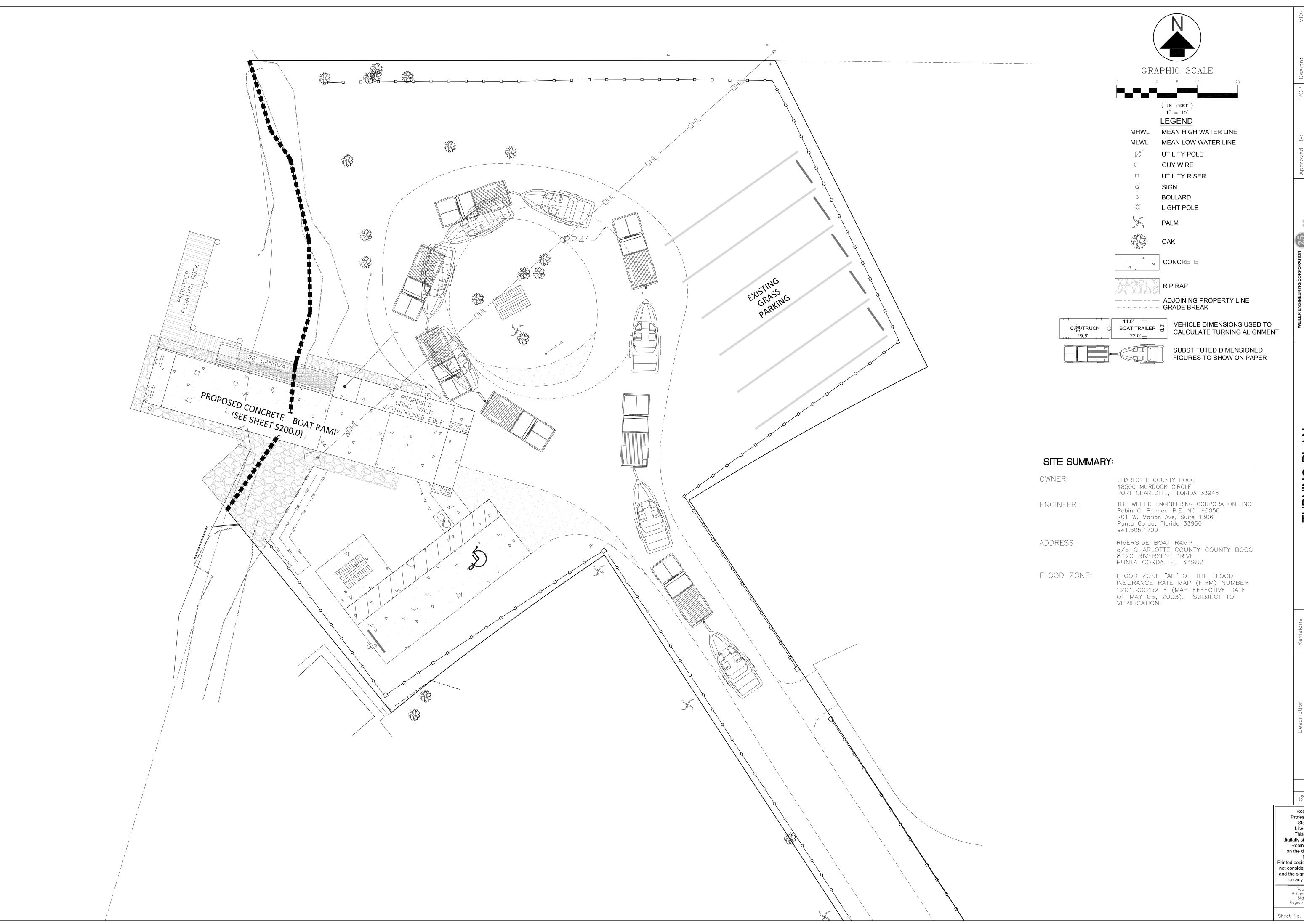
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Design: MDG
Drawn: MDG
Checked: RCP

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 04/29/2025 .

A AVE, SUITE 1306
A, FLORIDA 33950
505.1700

201 W. MARION AVE PUNTA GORDA, FLC 941.505.17

for ERSIDE BOAT RAMP

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No. **C-8.0**

GENERAL REQUIREMENTS CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS AND SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY ERRORS, OMISSIONS OR DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK. 2. ALL MATERIALS, EQUIPMENT, CONNECTORS, AND WORK SHALL MEET OR EXCEED THE DESIGN DATA AND COMPLIANCE 3. ENGINEER IS NOT RESPONSIBLE FOR ANY SUPERVISION DURING CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO COMMENCING EXCAVATION AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. 5. THE CONTRACTOR MAINTAINS THE RESPONSIBILITY FOR ALL CONSTRUCTION MEANS, METHODS AND TECHNIQUES REQUIRED FOR THE CONNECTIONS OF ALL ROOF, WALL AND FLOOR SYSTEMS. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER. THE STRUCTURAL INTEGRITY OF THE STRUCTURES SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS, STRUCTURAL MEMBERS ARE NOT SELF SUPPORTING DURING CONSTRUCTION AND REQUIRE TEMPORARY BRACING UNTIL PERMANENTLY APPLIED TO STRUCTURE AS DIRECTED. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION UNLESS THE CONSTRUCTION METHOD AND BRACING ARE INCLUDED IN THE PLANS AND SPECIFICATIONS, OR ARE SUPERVISED BY THE STRUCTURAL ENGINEER DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISION / AUTHORITY OR ACTUAL AND/ OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/ OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE. IN ADDITION TO THE DEMOLITION WORK INDICATED ON THE DRAWINGS, MINOR LOCAL DEMOLITION OF EXISTING ELEMENTS MAY BE REQUIRED TO PERFORM THE STRUCTURAL WORK AS INDICATED ON THE PLANS, SECTIONS, AND 9. DISCHARGE ALL DRAIN LINES, CONDENSATE LINES, DOWN SPOUT, ETC. AT LEAST 1' FROM BUILDINGS. 10. ANY CHANGES OR SUBSTITUTIONS SHALL BE APPROVED BY THE ENGINEER 11. DISSIMILAR METALS SHALL BE ISOLATED TO PREVENT GALVANIC ACTION. 12. PILES SHALL HAVE EMBEDMENT TO PRACTICAL REFUSAL AS DEFINED AS 20 BLOWS PER INCH OR LESS THAN ONE INCH PENETRATION, WITH THE HAMMER OPERATING AT THE HIGHEST SETTING DETERMINED BY THE ENGINEER AND LESS THAN 1/4 INCHES REBOUND PER BLOW THEN PILE SHALL BE CUT TO REQUIRED HEIGHT

STRUCTURAL LOADS GOVERNING BUILDING CODE: 2023 FLORIDA BUILDING CODE DESIGN LOADS:

 BOAT RAMP LOADS DEAD LOAD: LIVE LOAD: . WALKWAY LOADS DEAD LOAD: 50 PSF 50 PSF LIVE LOAD: ... RETAINING WALL LOADS LIVE LOAD SURCHARGE: WIND LOADS (PER ASCE 7-22) BASIC WIND SPEED (1609.3.1)

ULTIMATE (V/ULT) (THREE SECOND GUST): NOMINAL (V/ASD): . RISK CATEGORY (1604.5): WIND LOAD IMPORTANCE FACTOR: ... 4. WIND EXPOSURE (1609.4.):

FLOOD DESIGN DATA (PER FBC 1612.1) BASE FLOOD ELEVATION: RIVER CURRENT VELOCITY: WAVE RATING: STORM SURGE:

LIES GEOTECHNICAL REPORT

REPORT #: 0530.2200361.0000 DATED 01/20/2023 HAS BEEN PERFORMED AND IS AVAILABLE

FIELD VERIFY ALL EXISTING ABOVE AND BELOW GROUND CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION. THE STRUCTURAL DESIGN OF THIS STRUCTURE IS BASED ON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS. WITH NO PROVISION FOR CONDITION OCCURRING DURING CONSTRUCTION. THEREFORE, CONTRACTOR SHALL PROVIDE ADEQUATE BRACING DURING CONSTRUCTION

... 150 MPH

.. 116 MPH

....1.00

.. 3 FT/S

... OHWL + 8 FT

.. 1 FT, 2 SECOND PERIOD

....CATEGORY 1

. AE (WITHIN FLOODWAY) (7.8' NAVD)

DIAGONAL

DIAMETER

DIFFERENT

DIMENSION

DITTO

DRAWING

EACH FACE

ELEVATION

ELECTRICAL

ELEVATOR

ENGINEER

FOUIPMENT

EXPANSION

EXISTING

EQUAL

ENGR

EXIST

IEOR

EXPANSION JOINT

ENGINEER OF RECORD

STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE

13. CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL NECESSARY PERMITS FROM ALL RELEVANT AUTHORITIES HAVING

JURISDICTION, INCLUDING STRUCTURAL, ELECTRICAL, PLUMBING, AND ALL OTHERS REQUIRED TO COMPLETE THE

4. CONSTRUCTION SEQUENCING 4.1. CONTRACTOR SHALL CONSTRUCT COFFER DAM AND NOT REMOVE UNTIL GIVEN APPROVAL BY ENGINEER. BOAT RAMP AREA SHALL BE MAINTAINED IN DEWATERED CONDITION THROUGHOUT RAMP AND RETAINING WALL CONSTRUCTION. APPROVAL TO

CEASE DEWATERING AND REMOVAL OF COFFER DAM SHALL BE GRANTED BY ENGINEER

BASE PLATE

CANTILEVER

CENTER LINE

COLUMN

CONCRETE

CONNECTION

CONSTRUCTION

CONTINUOUS

CONTRACTION

CENTER

DEFL DEFLECTION

CENTERED

CONC

CONN

CONT

ICTR

CONST

CONTR

CENTER TO CENTER

CONSTRUCTION JOINT

CONCRETE MASONRY UNIT

BEARING

EXISTING STRUCTURE

BREVIATIONS

LARCH

ASSY

BOT

BLDG

NUMBER OR POUND

ROUND OR DIAMETER

SQUARE

ALUMINUM

ANCHOR ROD

ARCHITECTURE

ASSEMBLY

BOTTOM OF

BOTTOM

BEAM

BUILDING

BETWN BETWEEN

AND

1. DRAWINGS FOR THE EXISTING STRUCTURE WERE NOT AVAILABLE. ALL OF THE EXISTING CONDITIONS WERE NOT VERIFIABLE WITHIN THE SCOPE OF ENGINEERING SERVICES; THEREFORE, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR

THE EXISTING STRUCTURE HAS NOT BEEN REVIEWED OR IMPROVED TO MEET THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING

SHOP DRAWINGS

SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. NO MODIFICATIONS OR SUBSTITUTION OF DRAWINGS AND SPECIFICATIONS WILL BE ACCEPTED VIA SHOP DRAWINGS REVIEW. THE FOLLOWING SHOP DRAWINGS SHALL BE

1.1. BELLINGHAM MARINE UNIFLOAT OR APPROVED EQUAL FLOATING DOCK, INCLUDING GANGWAY AND ALL OTHER ATTACHED COMPONENTS

1.2. SUBMIT CONCRETE TEST RESULTS FOR CYLINDER STRENGTH TESTS AND SLUMP TESTS 1.3. SUBMIT CONCRETE MIX DESIGN PER SPECIFICATIONS IN "CAST IN PLACE CONCRETE" ITEM 26.1 1.4. SUBMIT REBAR SHOP DRAWINGS PER SPECIFICATIONS IN "CAST IN PLACE CONCRETE" ITEM 26.2

1.5. SUBMIT DENSITY TEST RESULTS PER SPECIFICATIONS IN "FOUNDATION SOIL & TREATMENT" ITEM 2.1 1.6. SUBMIT PROPOSED CONCRETE MIX DESIGN PRIOR TO CONSTRUCTION, INCLUDING BACK UP DATA IN ACCORDANCE WITH ACI 301 CHAPTER 4, SECTION 4.2.3, EXCLUDING SECTION 4.2.3.4B.

1.7. SUBMIT DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZES, AND LOCATION. INCLUDE BAR LISTS AND

1.8. PRECAST CONCRETE PILES

1.9. STEEL PIPE PILES 1.10. COFFER DAM AND DEWATERING PLAN

1.11. CONSTRUCTION SEQUENCING PLAN

1.6. ANY PROPOSED ALTERNATIVES TO PRODUCTS SPECIFIED IN PLANS

1.7. ANY OTHER PURCHASED MATERIALS AND PRODUCTS NOT SPECIFICALLY LISTED

CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER. CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS.

CONTRACTOR SHALL NOT ORDER OR PURCHASE MATERIALS UNTIL APPROVED BY ENGINEER.

SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER AS INDICATED OR SPECIFIED FOR REVIEW PRIOR TO FABRICATION. REVIEW WILL BE FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT CONVEYED IN CONTRACT DOCUMENTS.

5. WHEN ENGINEER IS REQUIRED TO SIGN AND STAMP SHOP DRAWINGS AND CALCULATIONS, ENSURE SEAL INDICATES ENGINEER AS REGISTERED IN THE STATE WHERE PROJECT SITE OCCURS.

6. SHOP DRAWINGS ARE NOT PART OF CONTRACT DOCUMENTS. THEREFORE, STRUCTURAL ENGINEER'S REVIEW DOES NOT CONSTITUTE ON AUTHORIZATION TO DEVIATE FROM THE TERMS AND CONDITIONS OF THE CONTRACT.

SHOP DRAWINGS WILL BE REJECTED FOR INCOMPLETENESS, LACK OF COORDINATION WITH OTHER PORTIONS OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS (IF REQUIRED), OR WHERE MODIFICATIONS OR SUBSTITUTIONS ARE INDICATED WITHOUT PRIOR REVIEW PER PARAGRAPH ABOVE 6. - SUBMIT SHOP DRAWINGS AND CALCULATIONS TO GOVERNING CODE AUTHORITY WHEN SPECIFICALLY INDICATED OR REQUESTED.

8. MAINTAIN A COPY OF ALL SHOP DRAWINGS ACCEPTED BY THE STRUCTURAL ENGINEER AT SITE DURING CONSTRUCTION PERIOD.

9. STRUCTURAL ENGINEER REQUIRES 10 WORKING DAYS AFTER RECEIPT OF SHOP DRAWINGS AND CALCULATIONS FOR PROCESSING

SOIL COMPACTION

FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. REMOVE TOP SOIL TO A MINIMUM DEPTH OF ONE FOOT OVER THE ENTIRE CONSTRUCTION AREA AND FIVE FEET BEYOND CONSTRUCTION LINES. COMPACT SUB-GRADE USING A VIBRATORY COMPACTOR SUCH AS "VIBRATOW II" OR EQUIVALENT WITH A MINIMUM OF FOUR PASSES. PLACE AND COMPACT FILL MATERIAL TO FINISHED GRADE LEVEL IN LIFTS NOT EXCEEDING 12" THICK. SUB-GRADE AND EACH LIFT SHALL BE COMPACTED TO MINIMUM 95% MODIFIED PROCTOR DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-1557. VERIFICATION THAT THE COMPACTION REQUIREMENTS HAVE BEEN MET SHALL BE MADE BY AN INDEPENDENT GEOTECHNICAL CONSULTANT EMPLOYED BY THE OWNER AND APPROVED BY THE ENGINEER. LOCATIONS FAILING TO MEET THE REQUIREMENTS SHALL BE RE-COMPACTED AND RETESTED AT THE CONTRACTOR'S EXPENSE AND AS DIRECTED BY THE INDEPENDENT GEOTECHNICAL CONSULTANT.

OTHERWISE:

CAST-IN-PLACE CONCRETE CONCRETE TO BE NORMAL WEIGHT WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS UNLESS NOTED

1.1. BEAMS, BEAM SUPPORTED SLABS, RAMPS AND RETAINING WALL CAPS.....

2. CONCRETE SHALL BE READYMIX PER ASTM C94: 2.1. PORTLAND CEMENT - ASTM C150 2.2. AGGREGATES - ASTM C33 (3/4" MAX.)

2.3. NO CALCIUM CHLORIDE 2.4. AIR ENTRAINING - ASTM C260 2.5. WATER REDUCING - ASTM C494

2.6. FLYASH -ASTM C618 CLASS F (20% MAXIMUM BY WEIGHT) 2.7. WATER - CLEAN AND POTABLE

REINFORCING STEEL:

MMFX 2" ASTM A1035/A1035M GRADE 100, FREE FROM OIL, SCALE AND RUST, PLACED IN ACCORDANCE WITH THE LATEST ACI STANDARDS AND SPECIFICATIONS. USE ONLY PLASTIC CHAIRS AND RE-BAR SUPPORTS.

4. REQUIRED SLUMP RANGE: = 3" TO 5".

5. CODES AND STANDARDS: (CURRENT EDITIONS) 5.1. ACI 301, "SPEC FOR STRUCTURAL CONCRETE FOR BUILDINGS." 5.2. ACI 305, "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING."

5.3. ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." 5.4. ACI 315 (SP66-04), "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."

12.2. PROVIDE CONTINUOUS MOISTURE TO CONCRETE IN ACCORDANCE WITH ACI 301.

SITE. ALL TESTS SHALL BE PREPARED AFTER THE ADDITION OF WATER TO THE MIX

6. MINIMUM LAP SPLICES = CLASS 'B'

14.2. SLUMP TESTS - ASTM C143.

HEIGH⁻

INSIDE FACE

INFORMATION

LONG LEG HORIZONTAL

LONG SIDE HORIZONTAL

LONG LEG VERTICAL

LONG SIDE VERTICAL

MANUFACTUREF

MATERIAI

MAXIMUM

MECHANICAL

MECH

INTERIOR

JOINT

JOIST

FXTFRIOR

EACH WAY

FLAT BAR

FLOOR

FAR SIDE

FOOTING

GAL VANIZED

GIRDER TRUSS

HOLLOW METAL

HORIZONTAL

GENERAL CONTRACTOR

HEADED STUD ANCHOR

FDN

FLOOR DRAIN

FOUNDATION

FINISH FLOOR

PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC., AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE AND SUPPORT ALL REINFORCING IN PLACE. USE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS. USE PLASTIC TIP LEGS ON ALL EXPOSED SURFACES.

ALL WALLS AND SLABS SHALL BE POURED MONOLITHICALLY, EXCEPT FOR REQUIRED CONSTRUCTION JOINTS. PROPOSED CONSTRUCTION JOINT LOCATION SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.

CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, AND SLAB RECESSES AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. NO SLEEVE, OPENING, OR INSERT MAY BE PLACED IN BEAMS, JOISTS, OR COLUMNS UNLESS APPROVED BY THE ENGINEER

10. CONTRACTOR SHALL VERIFY EMBEDDED ITEMS, INCLUDING BUT NOT LIMITED TO ANCHOR BOLTS, BOLT CLUSTERS, WELD PLATES, ETC..., BEFORE PLACING CONCRETE. NOTIFY ENGINEER OF ANY CONFLICTS WITH REBAR.

11. SEE PROJECT PLANS AND SPECIFICATIONS FOR REQUIRED CONCRETE FINISHES. ALL FINISHES TO BE APPROVED BY OWNER PRIOR TO FINISHING.

12. ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS IN ACCORDANCE WITH ONE OF THE FOLLOWING 12.1. APPLY A LIQUID MEMBRANE FORMING CHEMICAL CURING COMPOUND IN ACCORDANCE WITH ASTM C309.

GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORM WORK, SHORING, AND RESHORING. DESIGN SHALL BE PERFORMED BY A LICENSED FLORIDA ENGINEER.

14. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING CONCRETE TESTS ON SITE: 14.1. CYLINDER STRENGTH TESTS - ASTM C39; ONE SET OF FOUR CYLINDERS FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF. TEST ONE CYLINDER AT 7 DAYS AND TWO AT 28 DAYS. HOLD THE FINAL CYLINDER IN RESERVE.

15. ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.

RESTRICT THE ADDITION OF MIX WATER AT THE JOB SITE. DO NOT ADD WATER WITHOUT THE APPROVAL OF THE GENERAL CONTRACTOR AND DO NOT EXCEED SLUMP LIMITATIONS OR TOTAL ALLOWABLE WATER TO CEMENT RATIO. USE COLD WATER FROM THE TRUCK TANK AND RE-MIX TO ACHIEVE CONSISTENCY, TEST REPORTS SHALL INDICATE QUANTITY OF WATER ADDED AT THE JOB

MINIMUM

NEAR SIDE

NOT TO SCALE

OUTSIDE FACE

PERPENDICULAR

POUNDS PER SQUARE FOOT SQ

OUT TO OUT

OPFNING

PANEL

PREFAB PREFABRICATED

OPPOSITE

OPNG

LOPP

OUTSIDE DIAMETER

ON CENTER

MISCELLANEOUS

NOT IN CONTRACT

POUNDS PER SQUARE INCH STD

R OR RA RADIUS

REINE

ROUND

REFERENCE

REQUIRE

REQUIRED

RETAINING

REVISION

SECTION

SIMII AR

SPACE

SCHED SCHEDULE

REINFORCE(MENT)

SLAB ON GRADE

SPECIFICATION

STANDARD

STIFFENER

STRAIGHT

TOP OF

THICK

STRUCTURAL

SYMMETRICAL

TOP & BOTTOM

TILT-UP PANEL

THREADED

TYPICAL

TRANSVERSE

THICKENED SLAB

UNLESS NOTED OTHERWISE

STEEL

STRUCT

T/U PAN

TRANSV

ISYM

T&B

VERTICAL WITH WITHOUT WORK POINT WATERSTOP WELDED WIRE FABRIC THICKENED EDGE

GENERAL SYMBOLS - PLAN, SECTION OR DETAIL NO. -SHEET NUMBER NORTH ARROW KEYED NOTE TO PLAN REVISION NUMBER

MAXIMUM WATER TO CEMENT RATIO WHEN NO BACK UP DATA IS AVAILABLE 17.1. 5,000 PSI, 28-DAY COMPRESSIVE STRENGTH; W / C RATIO, 0.40 MAXIMUM (NON-AIR-ENTRAINED) NO WATER SHALL BE ADDED ON

18. REINFORCING BAR COVER 18.1. FOOTER (TOP) = 2"

18.2. FOOTER (BTM) = 3" 18.3. WALLS = 2"

SITE!

19. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME.

20. WHERE BAR LENGTHS ARE GIVEN ON DRAWINGS, LENGTH OF HOOK, IF REQUIRED IS NOT INCLUDED.

21. PROVIDE COMMERCIAL FORM COATING COMPOUNDS THAT WILL NOT BOND, STAIN, OR ADVERSELY AFFECT CONCRETE SURFACES. WET FORMS BEFORE PLACING CONCRETE.

22. ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE USING INTERNAL VIBRATORS.

23. REPAIR AND PATCH DEFECTIVE AREAS WITH CEMENT MORTAR IMMEDIATELY AFTER REMOVAL OF FORMS, EXCEPT WHERE REINFORCING IS VISIBLE. CONTACT STRUCTURAL ENGINEER FOR EVALUATION OF EXPOSED REINFORCING.

24. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS, AND WALLS UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATIONS.

25. PROVIDE CORNER BARS AT ALL BEAM AND WALL FOOTING CORNERS TO MATCH HORIZONTAL BARS.

SUBMITTALS 26.1. SEE <u>SHOP DRAWINGS</u> FOR LIST OF CONCRETE SUBMITTALS

CODES AND STANDARDS (CURRENT EDITIONS)

1.1. AMERICAN WOOD COUNCIL (AWC) "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NDS)

2. DIMENSIONAL LUMBER SHALL BE SOUTHERN PINE WITH THE MINIMUM NOMINAL DESIGN VALUES PER AWC NDS.

WHERE SPECIFIED, ENGINEERED LUMBER PRODUCTS SHALL BE PER MANUFACTURER PROVIDED DESIGN VALUES. CONTRACTOR SHALL PROVIDE SUBMITTAL FOR ALL ENGINEERED LUMBER PRODUCTS.

ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, OR SOIL, EXPOSED TO WEATHER, OR AT OTHER LOCATIONS AS SHOWN ON STRUCTURAL DRAWINGS, SHALL BE PROTECTED OR PRESSURE TREATED IN ACCORDANCE WITH AWPA REQUIREMENTS. PRESSURE TREATMENT APPROPRIATE FOR LUMBER IN CONTACT WITH SOIL SHALL BE PROVIDED WHERE APPLICABLE.

AWPA USE CATEGORY UC2 UC3B	TREATMENT (LBS/CU FT.) 0.018 PCF PTI OR EQUAL ± (0.019 PCF EL2, 0.14 PCF UCA-C, 0.15 PCF MCA, OR 0.17 PCF SBX) ACQ 0.25	
UC3B	UCA-C, 0.15 PCF MCA, OR 0.17 PCF SBX)	
	ACQ 0.25	
	1	
UC4A	0.40 PCF ACQ OR EQUAL ± (0.14 PCF UCA-C , 0.15 PCF MCA, OR 0.15 PCF CA)	
UC4A/B	0.60 PCF ACQ OR 0.31 PCF CA OR 0.23 PCF OF UCA-C OR MCA	
UC4B	0.60 PCF CCA	
UC4C	0.80 PCF CCA OR 0.41 CA	
UC5C	2.5 CCA	
_ 	UC4B UC4C	

1) ALL 2X MEMBERS (GIRDERS, RIM JOIST AND JOIST) THAT HAVE GROUND CONTACT SHALL BE STRUCTURAL HDPE OR EQUAL.

5. WALL STUDS SHALL BE CAPPED WITH A DOUBLE PLATE, INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH

ENGINEERED WOOD TRUSS SYSTEMS SHALL BE DESIGNED BY SUPPLIER'S DELEGATED ENGINEER TO CONFIGURATION AND LOAD-CARRYING CAPACITY SHOWN ON DRAWINGS AND SPECIFICATIONS. ALTERNATE TRUSS LAYOUTS ARE ACCEPTABLE ONLY AS A CHANGE ORDER WHICH WILL INCLUDE ENGINEERING CHARGES FOR REDESIGN OF THE STRUCTURE BY THE ENGINEER OF RECORD, SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW AND SPECIFY ALL CONNECTOR TYPES UTILIZED WITHIN TRUSSES, AS WELL AS CONNECTORS UTILIZED IN ALL OTHER CONNECTIONS AND ATTACHMENTS BETWEEN TRUSSES OR COMPONENTS SUPPLIED AS PART OF THE ENGINEERED TRUSS SYSTEM. A PLACING PLAN SHALL BE INCLUDED, IDENTIFYING ALL TRUSS SYSTEM COMPONENTS, AS WELL AS ALL PERMANENT BRACING REQUIRED FOR TRUSS DESIGN.

ENGINEERED SHOP DRAWINGS SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER AS THE SPECIALTY ENGINEER. THE FOLLOWING LOAD DURATION FACTORS SHALL BE USED FOR ALLOWABLE STRESS DESIGN (ASD): 7.1. DEAD LOAD

DEAD LOAD + FLOOR LIVE LOAD 1.00 DEAD LOAD + ROOF LIVE LOAD 1.25 DEAD LOAD + WIND LOAD 1.60

WHERE STRENGTH DESIGN (LRFD) IS UTILIZED ON ENGINEERED SHOP DRAWINGS, THE FOLLOWING TIME EFFECT FACTORS SHALL BE USED: 8.1. 1.4D

8.2. $1.2D + 1.6L + 0.5(L_r, S, R)$ 0.70 (L FROM STORAGE) 0.80 (L FROM OCCUPANCY) 8.2. $1.2D + 1.6L + 0.5(L_r, S, R)$ 1.25 (L FROM IMPACT) 8.2. 1.2D + 1.6L + 0.5(L_r, S, R) $1.2D + 1.6(L_r, S, R) + (L, 0.5W)$

 $1.2D + 1.0W + L + 0.5(L_r, S, R)$ 1.00 8.5. 1.2D + 1.0E + L + 0.2S 8.6. 0.9D + 1.0W

8.7. 0.9D + 1.0E 1.00

9. PLYWOOD FLOOR, WALL, AND ROOF SHEATHING ARE DESIGNED AS DIAPHRAGMS AND SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 23 OF THE FLORIDA BUILDING CODE. UNLESS SHOWN OTHERWISE SPAN RATED PANELS SHALL BE FASTENED TO NOMINAL 2X SOUTHER PINE FRAMING SPACED UP TO 24" O/C IN ACCORDANCE WITH THE FOLLOWING:

9.1. PANELS UP TO 5/8" THICK: 10d NAILS AT 6" O/C ALONG SUPPORTED PANEL EDGE, 6" O/C ELSEWHERE, U.N.O. 9.2. PANELS UP TO 3/4" THICK: 12d NAILS AT 6" O/C ALONG SUPPORTED PANEL EDGE, 6" O/C ELSEWHERE, U.N.O.

10. ROOF SHEATHING SHALL BE NAILED WITH RING-SHANK NAILS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.

11. AT GABLE ENDWALLS, GABLE END TRUSSES, AND ALL COMPONENT AND CLADDING EDGE STRIP #3 LOCATIONS, SPACE NAILS AT 4" O/C AT ALL EDGES AND INTERMEDIATE SUPPORTS.

12. ROOF AND FLOOR SHEATHING SHALL BE INSTALLED LONG DIMENSION PERPENDICULAR TO FRAMING AND END JOINTS SHALL BE

13. NAILING, JOIST BLOCKING, AND RAFTER BLOCKING SHALL MEET THE MINIMUM REQUIREMENTS OF CHAPTER 23 OF THE FLORIDA BUILDING CODE UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED ON THE PLANS.

14. ALL CONNECTORS SHALL BE GALVANIZED. CONNECTOR MODEL NUMBERS SHOWN ARE STRONG-TIE CONNECTORS AS MANUFACTURED BY SIMPSON STRONG-TIE CO, PO BOX 10789, PLEASANTON, CA 94588 OR USP CONNECTORS AS MANUFACTURED BY MITEK, INC, 16023 SWINGLEY RIDGE RD, CHESTERFIELD, MO 63017. SUBSTITUTIONS ARE ACCEPTABLE WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. UNLESS SHOWN OTHERWISE, INSTALL SIZE AND NUMBER OF FASTENERS PER MANUFACTURER INSTALLATION INSTRUCTIONS. ALL CONNECTORS TO PRESSURE TREATED LUMBER SHALL BE TRIPLE GALVANIZED (Z MAX) OR STAINLESS STEEL.

15. ANY NOTE REQUIRING A RING SHANK MAY BE SCREW SHANK FOR AUTOMATIC NAILING

ALUMINUM SPECIFICATIONS

17. WHERE OTHERWISE NOT SPECIFIED, ALUMINUM HANDRAIL FOR VERTICAL AND HORIZONTAL MEMBERS SHALL BE SEAMLESS, 1-1/2 INCH (IPS), SCHEDULE 40, 6063-T832 OR 6063-T6 ALUMINUM ALLOY PIPE. ALUMINUM FITTINGS SHALL BE OF WROUGHT MATERIAL OF THE SAME COMPOSITION AS RAILS AND POSTS OR CAST ALUMINUM OF ALUMINUM ALLOY NO. 214. ALUMINUM FITTINGS SHALL HAVE A MINIMUM THICKNESS OF 1/4-INCH. ALL SCREW CONNECTORS AND BOLTS SHALL BE OF STAINLESS STEEL OR 2024-T4 ALUMINUM

18. ALL OTHER ALUMINUM COMPONENTS SHALL BE AS NOTED.

STEEL PILE SPECIFICATIONS

ALL STEEL PILES SHALL BE ASTM A53 GRADE B U.N.O. ALL COVERINGS AND COATINGS SHALL BE PER PLAN.

DOCK REQUIREMENTS

1. DOCK TO BE RATED FOR EXPOSURE C WIND LOADING WITH A MINIMUM OCCUPIED V_{ult} LOAD OF 60 MPH, AND A MINIMUM UNOCCUPIED V_{ult} LOAD OF 150 MPH.

2. DEAD LOAD FREEBOARD TO BE 18" MINIMUM

3. FREEBOARD AT 50 PSF LIVE LOAD TO BE 6" MINIMUM

4. FLOTATION DESIGN TO FULLY SUPPORT DEAD LOAD AND LIVE LOADS

300 LB MOVING POINT LOAD AT ANY AREA ON THE DOCK SURFACE SHALL NOT CAUSE EXCESSIVE ROLLING OR TILTING

400 LB POINT LOAD APPLIED 12" FROM THE DOCK END SHALL NET NO MORE THAN A 4" LOSS OF FREEBOARD 300 LB POINT LOAD APPLIED TO OUTSIDE CORNER SHALL NET NO MORE THAN A 2°/3 FT LIST FROM HORIZONTAL

6. FLOTATION SHALL BE DESIGNED TO SUPPORT ALL ADDITIONAL CONCENTRATED LOADS AS IMPOSED BY GANGWAYS OR OTHER

7. GANGWAY TO BE 50 PSF MINIMUM RATED WITH A DEFLECTION LIMIT OF L/180

8. GANGWAY HANDRAIL/GUARDS TO BE DESIGNED PER FLORIDA BUILDING CODE 2020, INCLUDING A TYPICAL MINIMUM 200 LB LATERAL LOAD CAPACITY, A 42" HEIGHT, AND NOT ALLOWING A 4" SPHERE TO PASS BETWEEN VERTICALS

9. GANGWAY HINGE AND TRACK TO ALLOW FOR FULL RANGE OF MOVEMENT FROM 4.50' NGVD WATER LEVEL TO 21.50' NGVD WATER

10. DOCK AND GANGWAY TO BE SLIP RESISTANT AS TO BE COMPLIANT WITH PUBLISHED ACCESSIBILITY CODES AND RECOMMENDATIONS; 0.6 SCOF OR EQUIVALENT DCOF

11. DOCKS TO HAVE MAXIMUM TOLERANCES FOR SLOPE, PLUMB, AND SQUARE OF 1/2" WHICH SHALL BE RECONFIRMED UPON

12. WALKING SURFACE TO BE LEVEL AND FLUSH WITH RESPECT TO ADJACENT FLOATS

13. TOP EDGES SHALL HAVE 3/8" RADIUS

14. DOCK TO HAVE TIMBER RUB BOARD IN ADDITION TO WALERS AS TO PROTECT BOATS FROM ANY PROTRUDING HARDWARE

15. ALL TIMBER AND STRUCTURAL LUMBER SHALL BE 0.6CCA NO. 1 SOUTHERN YELLOW PINE OR BETTER 16. DOCK DESIGN TO BE RATED FOR A 2.5 FT/SEC VESSEL IMPACT AT 45° TO PARALLEL

17. DOCK DESIGN TO BE RATED FOR A 1' WAVE, 2-SECOND PERIOD, WITH A STORM SURGE OF 8' FROM OHWL

18. DOCK DESIGN TO BE RATED FOR A MINIMUM CURRENT PRESSURE OF 2.4 PSF

19. LATERAL PILE LOAD AT MAXIMUM SURGE LEVEL OF 1,800 LB 20. ALL STRUCTURAL STEEL SHALL BE ASTM A-36 AND SHALL BE HOT DIPPED GALVANIZED. ZINC COATING THICKNESS SHALL BE 3 MILS

21. ALL STRUCTURAL STEEL WELDING TO BE IN ACCORDANCE WITH AND COMPLETED BY WELDERS QUALIFIED IN ACCORDANCE WITH ANSI/AWS D1.1, 2010 STRUCTURAL WELDING CODE

22. ALL ALUMINUM WELDING TO BE IN ACCORDANCE WITH ANSI/AWS D1.2, STRUCTURAL WELDING - ALUMINUM

WIND BORNE DEBRIS REGION REQUIREMENTS

. STRUCTURAL COMPONENTS AND CLADDING AS REQUIRED SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH SECTION 1609 OF THE 2023 FLORIDA BUILDING CODE FOR DESIGN PRESSURES GENERATED BY AN ULTIMATE DESIGN WIND VELOCITY OF

2. THE BUILDER SHALL PROVIDE NECESSARY COPIES OF DETAILS, CERTIFICATIONS, ETC... TO THE BUILDING DEPARTMENT TO SHOW COMPLIANCE WITH THIS PARAGRAPH.

3. THE ENGINEER OF RECORD DOES NOT CERTIFY THE STRUCTURAL INTEGRITY OF THESE ITEMS.

4. DESIGN WIND PRESSURES ARE BASED ON AN OPEN STRUCTURE CLASSIFICATION.

CHEMICAL (ADHESIVE) ANCHORS SHALL BE AN EQUAL TWO PART EPOXY POLYMER INJECTION SYSTEM, SUCH AS RED-HEAD EPCON, SIMPSON SET EPOXY, OR HILTI HSE2411 EPOXY DOWELING SYSTEM, OR ENGINEER APPROVED SUBSTITUTION, INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. INSTALLERS SHALL BE TRAÍNED BY THE MANUFACTURER'S REPRESENTATIVE. MINIMUM EMBEDMENT SHALL BE TWELVE (12) TIMES FASTENER DIAMETER UNLESS NOTED OTHERWISE.

CONSTRUCTION OBSERVATION

THE STRUCTURAL ENGINEER OF RECORD HAS NOT BEEN RETAINED TO PERFORM CONSTRUCTION OBSERVATION SERVICES FOR THIS PROJECT. THEREFORE, ANY AS-BUILT CONSTRUCTION OR CHANGES MADE TO THE STRUCTURE OR TO THESE PLANS WITHOUT THE ENGINEER'S WRITTEN CONSENT SHALL RENDER THE DESIGN AND THE ENGINEERS SEAL ON THESE PLANS NULL AND VOID.

APPLICABLE CODES

ODE LIOT	
FLORIDA BUILDING CODE, BUILDING (FBC-B)	2023 8 TH Edition
FLORIDA BUILDING CODE, FUEL GAS (FBC-FG)	2023 8 TH EDITION
FLORIDA BUILDING CODE, MECHANICAL (FBC-M)	2023 8 TH EDITION
FLORIDA BUILDING CODE, PLUMBING (FBC-P)	2023 8 TH EDITION
FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB)	2023 8 TH EDITION
FLORIDA BUILDING CODE, RESIDENTIAL (FBC-R)	2023 8 TH EDITION
FLORIDA FIRE PREVENTION CODE (FFPC)	2023 8 TH EDITION
FLORIDA ACCESSIBILITY CODE	2023 8 TH EDITION
NATIONAL ELECTRICAL CODE NFPA-70	2023 Edition
FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONST	Latest Edition
FDOT DESIGN STANDARDS	Latest Edition

THE WEILER ENGINEERING CORPORATION

These plans are in Compliance with Florida Building Code 2023 for wind parameters indicated. WIND PARAMETERS METHOD OF DESIGN: ASCE 7-22 BUILDING RISK CATEGORY: RISK I

FLOOD PARAMETERS

FOUNDATIONS.

DESIGN WIND SPEED: ULTIMATE V/ULT=150 MPH / NOMINAL V/ASD = 116 MPH WIND IMPORTANCE FACTOR: 1.0 / WIND EXPOSURE: D

INTERNAL PRESSURE COEFFICIENT: ±0.18 (ENCLOSED) COMPONENT & CLADDING WIND PRESSURE: PER CALC'S

FEMA FIRM MAP NUMBER: 12015C0252F BASE FLOOD ELEVATION: AE-(WITHIN FLOODWAY) (7.8' NAVD) 100-YEAR, 1-HOUR DESIGN RAINFALL: 4.5 IN (FBC 2023 FIG. 1611.1)

GEOTECHNICAL PARAMETERS DATA SOURCE: PRESUMPTIVE LOAD-BEARING VALUES OF SOILS, FBC 2023 1806.2 VERTICAL BEARING CAPACITY: 1,500 PSF (FBC 2023 TABLE 1806.2) LATERAL BEARING PRESSURE: 100 PSF/FT (FBC 2023 TABLE 1806.2)

FOUNDATION SOIL AND TREATMENT SOIL BEARING CAPACITY LISTED & THE RESULTANT FOUNDATION DESIGN ASSUMES THE SOIL TYPE NOTED AS PER USGS WEB SOIL SURVEY (OR GEOTECHNICAL ENGINEERING IF PROVIDED). IF INADEQUATE SUBSTRATE IS DISCOVERED DURING SITE PREPARATION THE ENGINEER SHALL BE NOTIFIED PRIOR TO PLACEMENT OF

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Max Morgan, Professional Engineer, State of Florida. License No. 94877 This item has been digitally signed and sealed by Max Morgan, P.E. on the date indicated here 04/29/2025

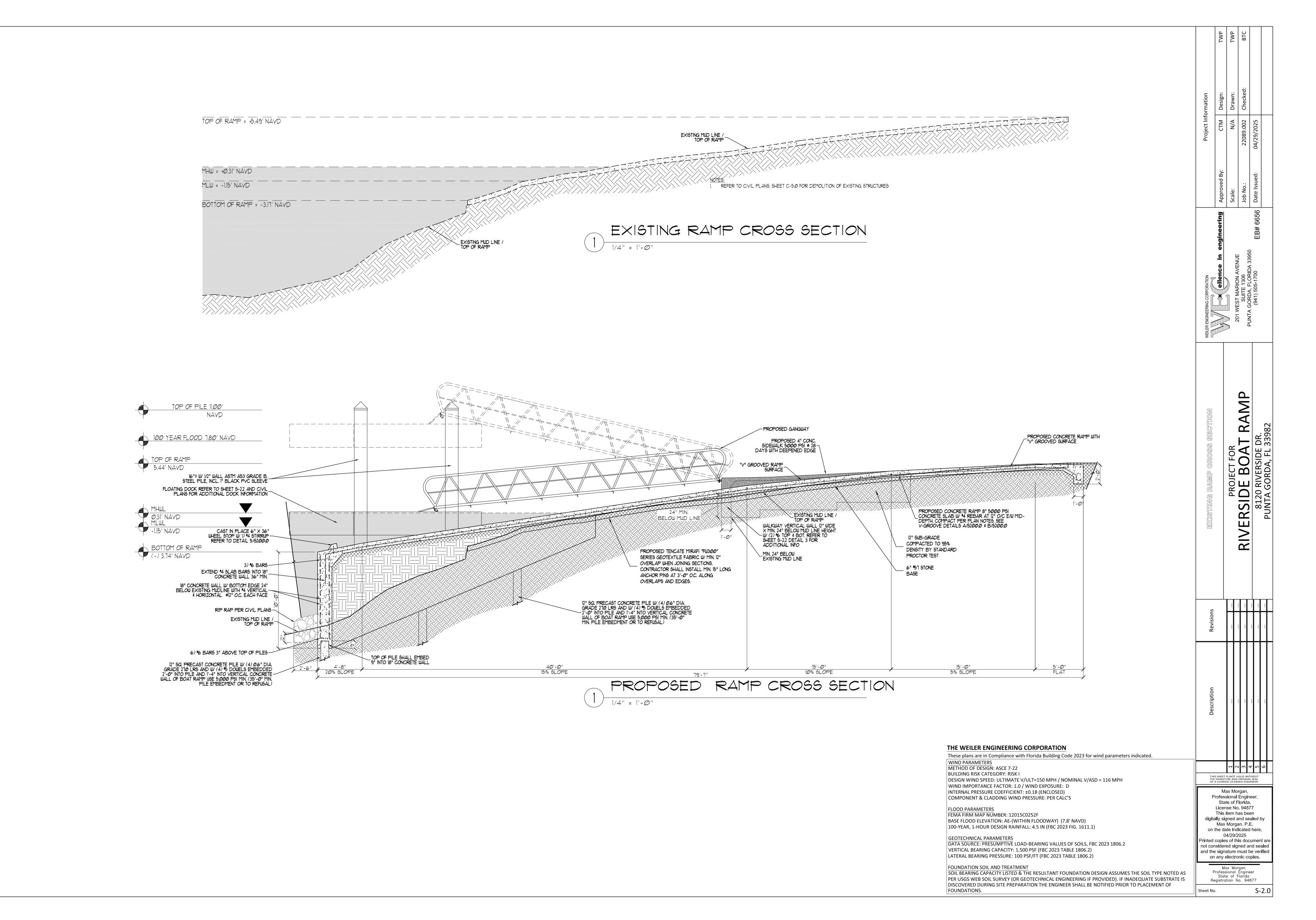
> on any electronic copies. Max Moraan Professional Engineer State of Florida Registration No. 94877

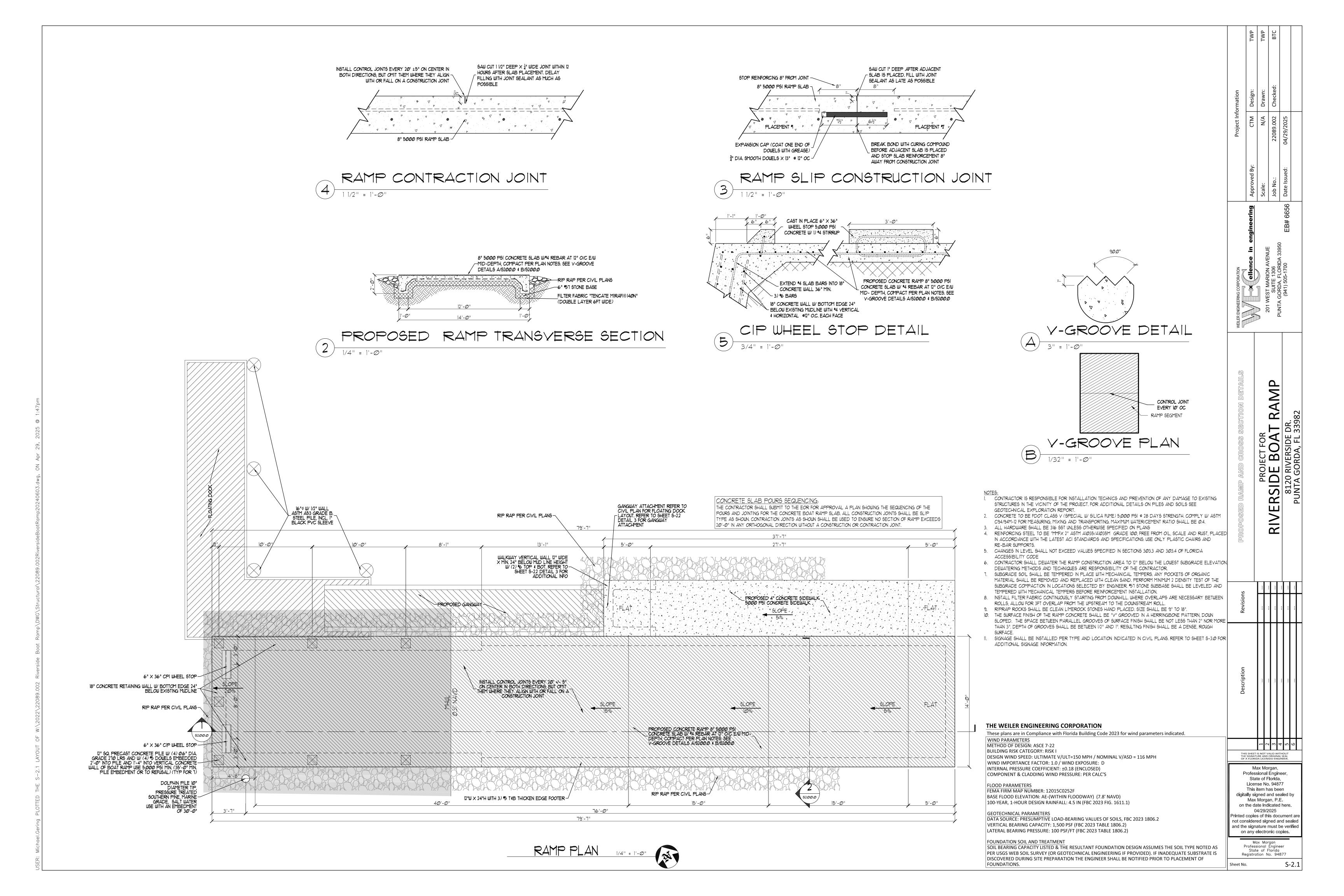
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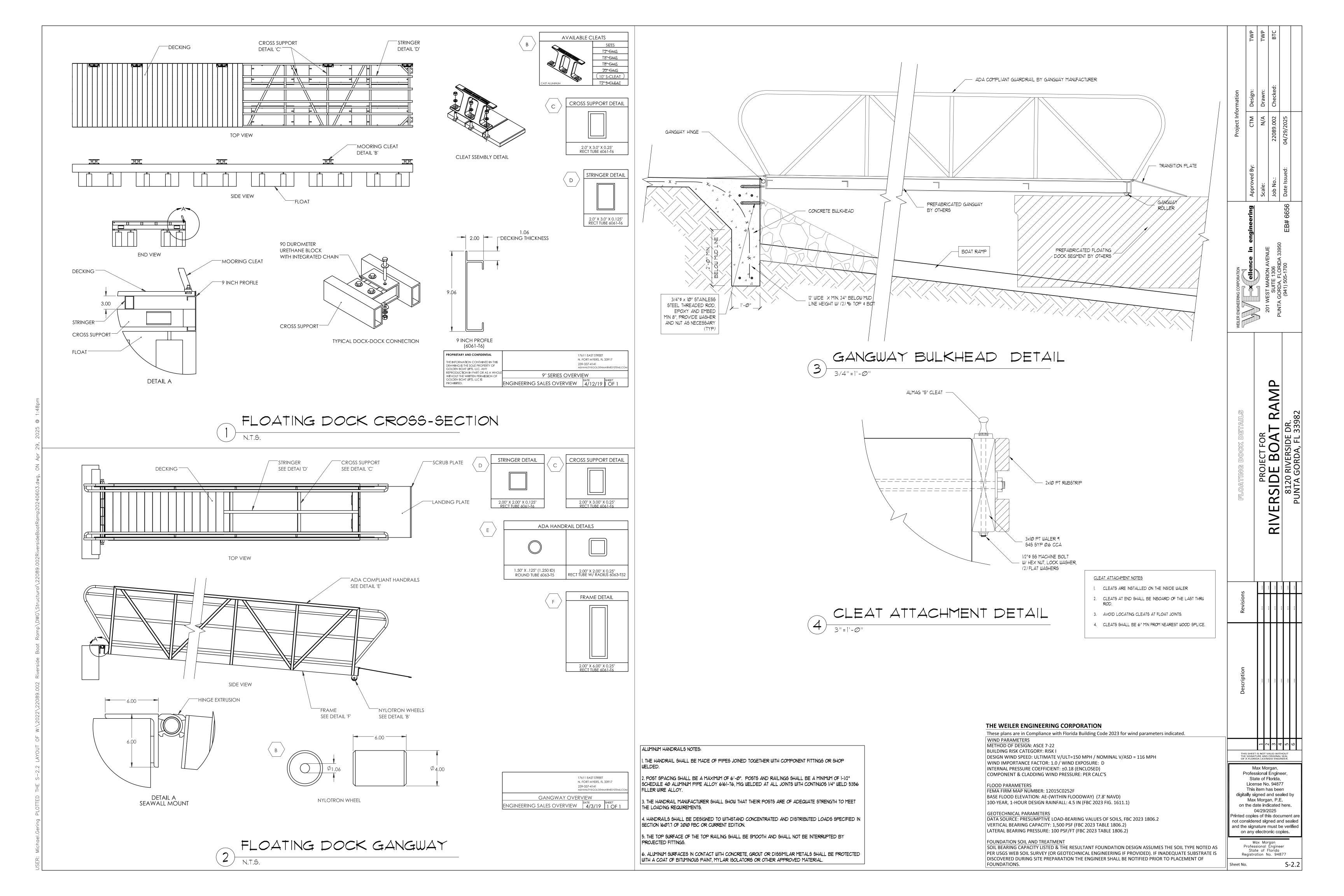
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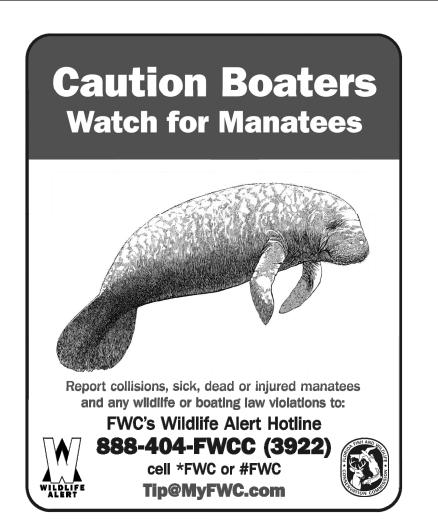
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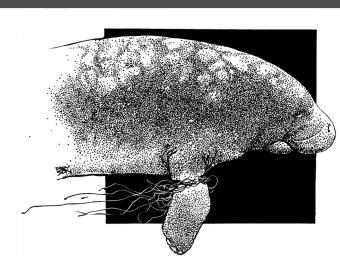


SIGN "A"

15"H × 12"W



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"

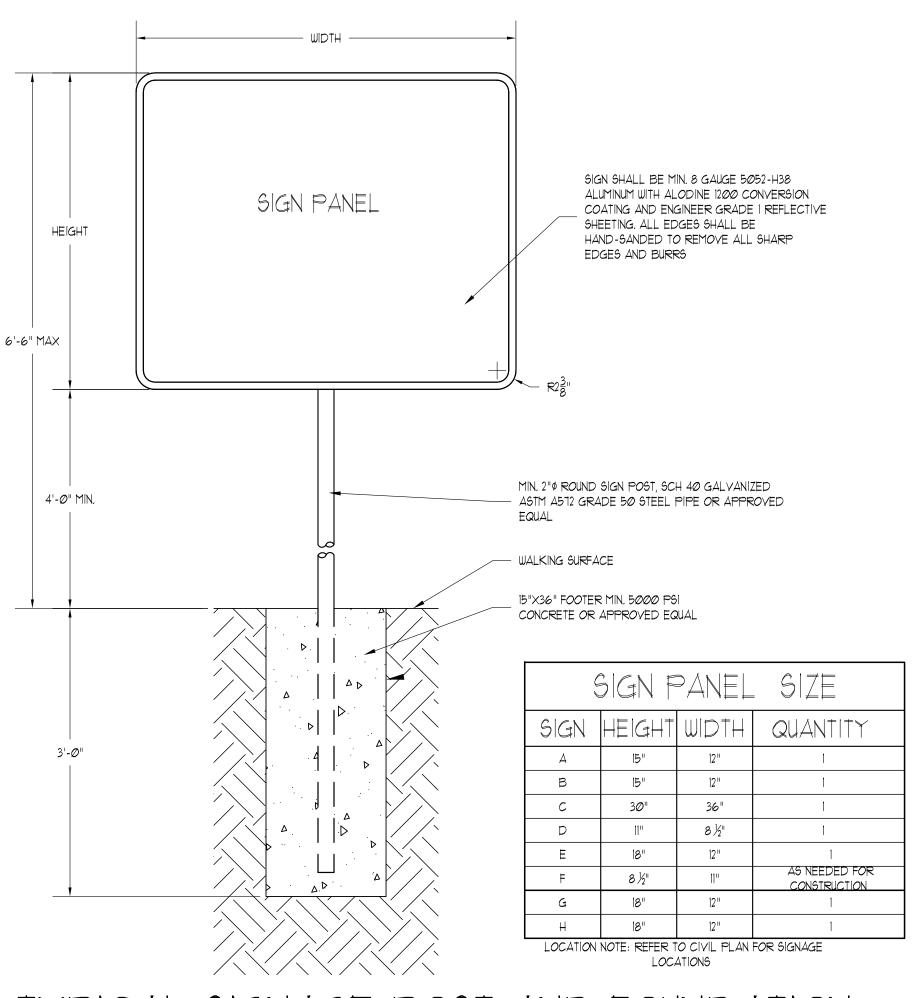
TO BE INSTALLED BY COUNTY WITH MONOFILAMENT STATION Florida Friendly Boating

SIGN "C"

3" = 1'-0"

SIGNAGE NOTE:

REFER TO CIVIL PLANS FOR SIGNAGE TYPE AND LOCATION



TYPICAL SIGNAGE POST AND FOUNDATION

YELLOW BACKGROUND

REFLECTIVE

SIGN "I"

 $18"H \times 12"W$

PLEASE DO NOT FEED THE BIRDS

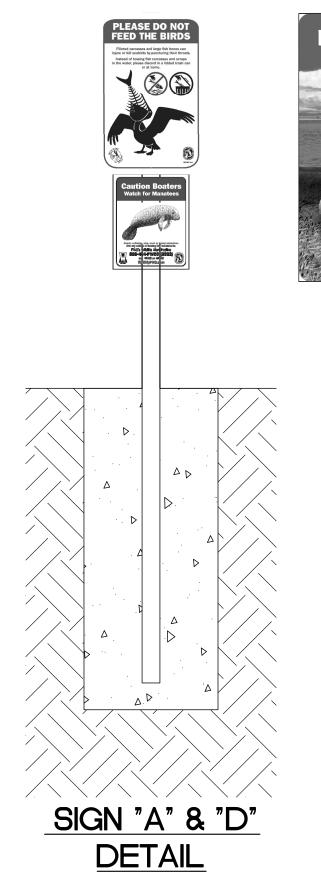
Filleted carcasses and large fish bones can injure or kill seabirds by puncturing their throats.

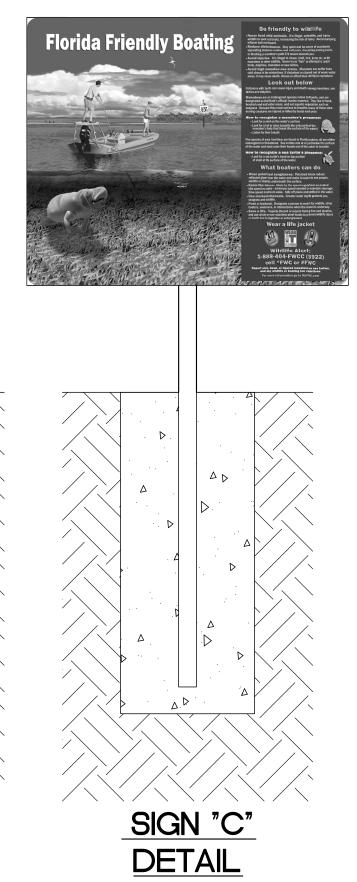


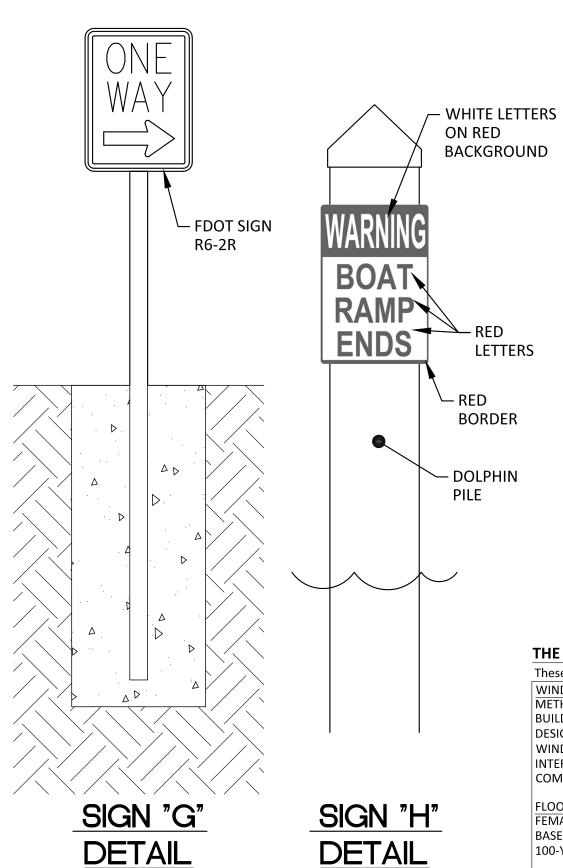
SIGN "D"

 $18"H \times 12"W$

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: **Diver Guidance**: ► Release sawfish immediately ▶ Keep your distance Avoid disturbing sawfish Never lift from the water or drag ashore Do not use gaffs or ropes to secure ▶ Do not chase or pursue ► Cut the line as close to the hook as possible ► Never feed or touch **Share Information About Your Encounter** 1-844-4**SAWFISH** www.SawfishRecovery.org The information you provide helps scientists track sawfish recovery







PROJ SIDE 8120 RIV JINTA GO 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 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" 6" = 1'-0" ε½"H×11"W

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WIND PARAMETERS METHOD OF DESIGN: ASCE 7-22 BUILDING RISK CATEGORY: RISK I DESIGN WIND SPEED: ULTIMATE V/ULT=150 MPH / NOMINAL V/ASD = 116 MPH

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State of Florida, License No. 94877 This item has been digitally signed and sealed by Max Morgan, P.E. on the date indicated here. 04/29/2025 rinted copies of this document a

Max Morgan,

Professional Engineer,

Max Morgan Professional Engineer State of Florida Registration No. 94877

not considered signed and sealed

and the signature must be verified

on any electronic copies.

6" = 1'-0"

IS"H × 12"W EXISTING SIGN

SIGN "E