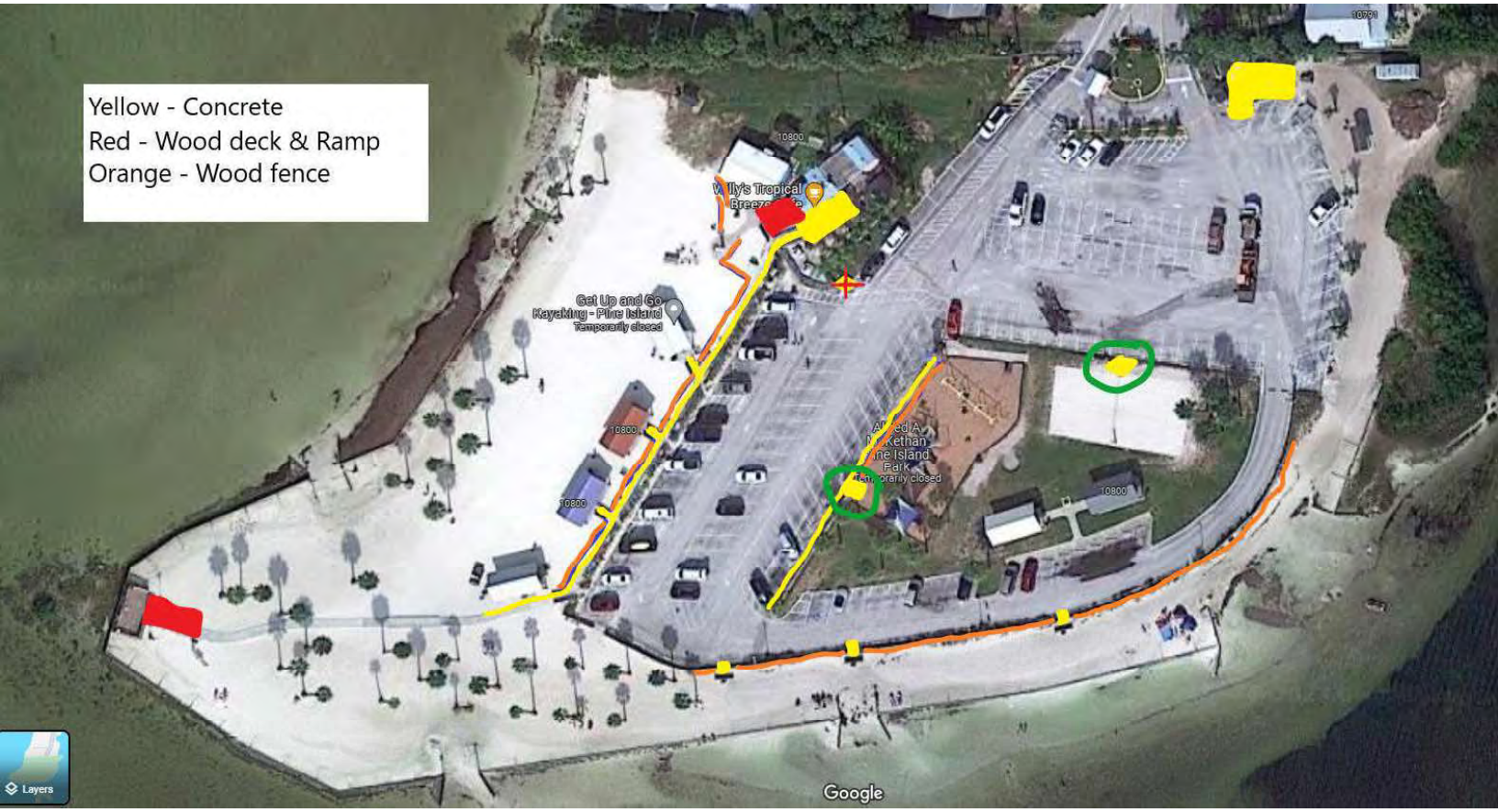
Yellow - Concrete
Red - Wood deck & Ramp
Orange - Wood fence
Get Up and Go
Kayaking - Pine Island
Temporarily closed
10800
Google
Layers

GENERAL NOTES:

1. THE STRUCTURAL SPECIFICATIONS AND DRAWINGS FOR THIS WORK HAVE BEEN PREPARED IN ACCORDANCE WITH THE GENERALLY ACCEPTED ENGINEERING PRACTICE TO MEET THE MINIMUM REQUIREMENTS OF THE 2017 EDITIONS OF THE FLORIDA (FBC) ACCESSIBILITY CODE, FLORIDA FIRE PREVENTION CODE (FFPC), THE FLORIDA BUILDING CODE (FBC) STANDARDS FOR BUILDING CONSTRUCTION AS AS REQUIRED BY CHAPTER 16, ASCE 7-10 FORCE CALCULATION AND ASCE 24-05 FLOOD RESISTANCE CALCULATION.

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18" DIA SONA TUBE, GROUTED = 5 CF @ 145 PCF = 725 LB

TOTAL TRIB WEIGHT TO SUBGRADE PER POST= 1313 LB

REVISION STATEMENT: APPLICATION # 1355922

RESPONCE TO:
NO. 1 - ADDED FBC ACCESSIBILITY CODE & FFPC CODE
NO. 2 - ADDED ADA RAILING DETAIL
NO. 3 - SPACED 6 LOCATIONS AROUND DECK @ NO LESS THAN 30"
NO. 4 - ALL OPENINGS AND EXTENSIONS ARE DIMENSIONED IN THE ADA RAILING DETAIL

OPEN STRUCTURES
WIND LOAD COMPLIANCE: 140 MPH

CALCULATIONS REPRESENT WORST CASE FOR OVERALL PROJECT.
EXPOSURE D, 0 - 30' ABOVE GROUND

ULTIMATE WIND SPEED (Vult) _____ 140 MPH
FBC-2017, CHAPTER 1609, FIG. 1609C, RISK CAT. I STRUCTURES
NOMINAL WIND SPEED (Vasd) _____ 101 MPH
FBC-2017, CHAPTER 1609, TABLE 1609.3.1
RATED WIND SPEED _____ 140 MPH W/3 SEC GUSTS

WIND IMPORTANCE FACTOR = .77
OPEN STRUCTURE - INTERNAL PRESSURE COEFICIENT = 0.0
(IF REQUIRED) COMPONENTS & CLADDING PRESSURE = 20.3 & -68.1
COMPONENT & CLADDING SHALL BE MAINTAINED IN ACCORDANCE WITH FBC CHAPTER 1609, SEC. 1609.8.4.4.1 AND TABLE 1609.8.2(2)

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$P = qz(GCp) - qh(GCpi) = 00.2(1.04).8 - 00.2(0.0) = 30.33$

$qz = 0.00256Kz(I)V^2 = .00256(1.12)19.600 = 56.2$

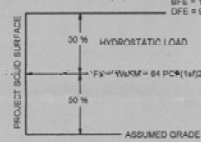
I=0.77 Kz=0.70 Gh=1.54 Cp= .9

V=140 qz=qh GCpi= 0.0 (OPEN STRUCTURE)

CODE REQD DESIGN FORCE _____ 33.32 PLF

BASIS FOR UPLIFT:
MEAN STRUCTURE TRIB X DESIGN FORCE = 3 x 33.32 = 100 PLF
UPLIFT PER POST = PLF x POST SPACING = 100 x 8 = 800 LB/POST
TRIB LOAD PER POST = 1311 LB
LOAD EXCEEDS UPLIFT BY 29 % + IN-GRADE DRAG

AMERICAN CIVIL ENGINEERS HANDBOOK
PART II, FIFTH EDITION - HYDROSTATIC LOADS



Wa = WEIGHT OF SEAWATER
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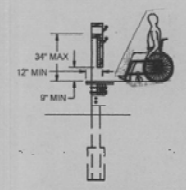
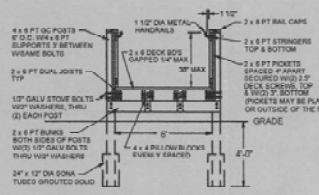
M = MEAN POINT OF PRESSURE



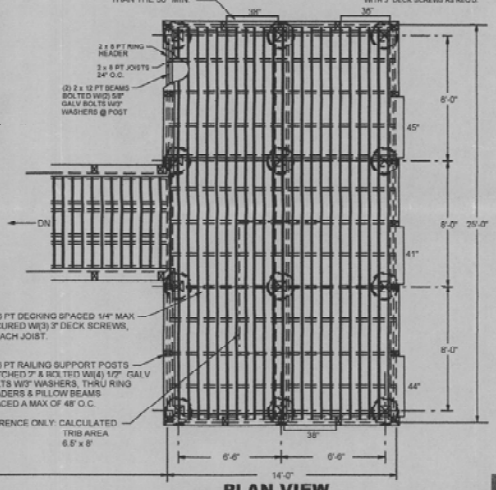
ADA RAIL ACCESS

TOTAL RAILING LF = 72.34'
REQ'D 25% = 72' x 0.25 = 18/2' = 6



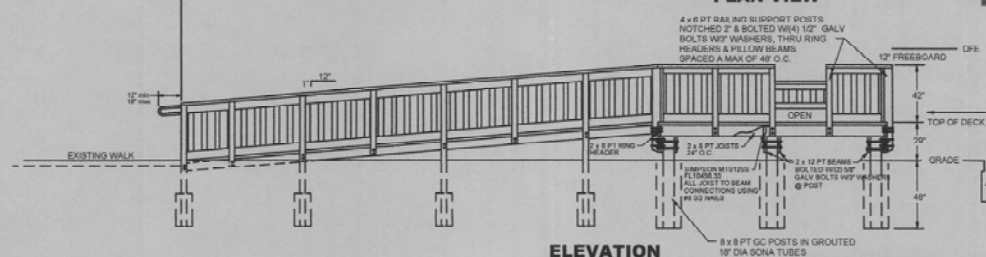
RAMP CROSS SECTION

NOTE:
UNLESS OTHERWISE SHOWN, ALL WOOD CONNECTIONS ARE MADE WITH 3" DECK SCREWS AS REQ'D.



PLAN VIEW

FILE COPY



ELEVATION

OBSERVATION DECK

1355922

AMERICAN MARINE CONTRACTORS, INC.
1203 SE 4th AVE. CRYSTAL RIVER, FL. 34429

BEAU KEENE, P.E.
LIC. NO. 0000781, BEAU KEENE, P.E. 44601
STRUCTURAL ENGINEERING SERVICES
20713 N. Florida Ave., Hernando, Florida 34442
352.341.1233 TEL, beaukeene@gmail.com

DATE
BEAU KEENE P.E.
FLA. STATE REG. NO. 44601

HOMOSASSA BLUEPRINT PLANNING SERVICES
WILLIAM F. ANDREWS, DESIGNER
P.O. BOX 4000
HOMOSASSA, FLORIDA 34487
10566 W. YULEE DR.
352-628-5993

PROJECT FOR:
PINE ISLAND

DRAWN BY: WFA	SCALE: AS SHOWN	
DESIGN: WFA	DATE: 4-4-18	JOB NO: HB1530
DRAWING NO: HB1530		

REVISED:

RECEIVED
MAY 0 2018

PLANS REVIEWED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE FLORIDA CODE WITH EXCEPTIONS NOTED

MAY 11 2018

THE ISSUANCE OF THIS PERMIT SHALL NOT BE HELD TO PERMIT OR APPROVE THE VIOLATION OF ANY CITY, COUNTY, OR STATE LAW, CODE, REGULATION OR ORDINANCE

GENERAL NOTES:

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WIND LOAD COMPLIANCE: 140 MPH

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EXPOSURE D, 0 - 30' ABOVE GROUND

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Iw0.77 Kz=0.70 Gh=1.54 Cp= .8

Vx140 qz=qh GCpi= 0.0 (OPEN STRUCTURE)

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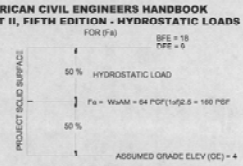
AMERICAN CIVIL ENGINEERS HANDBOOK
PART II, FIFTH EDITION - HYDROSTATIC LOADS



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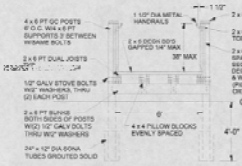
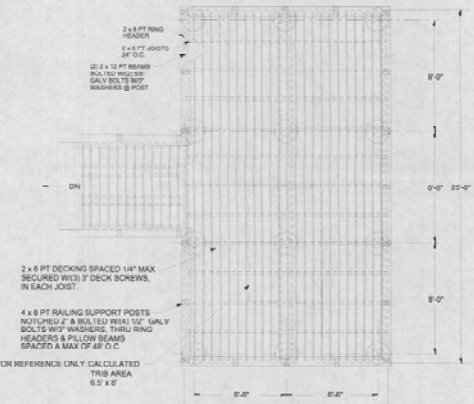
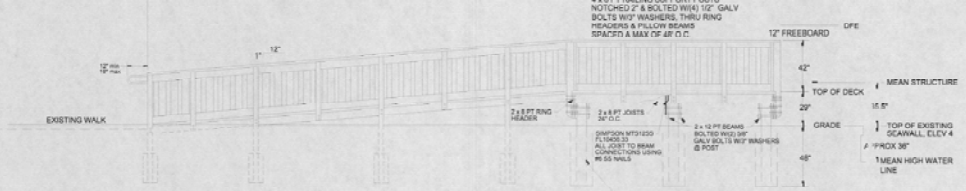


RAMP CROSS SECTION



PLAN VIEW



ELEVATION

OBSERVATION DECK

AMERICAN MARINE CONTRACTORS, INC.
1203 SE 4th AVE., CRYSTAL RIVER, FL. 34429

BEAU KEENE, P.E.
C.A. NO. 30097EC BEAU KEENE, FLPE #49931
PROFESSIONAL ENGINEERING SERVICES
2670 N. Florida Ave., Homosassa, Florida 34442
352.341.1200/FAX: beaukeene@gmail.com

BEAU KEENE, P.E. FLORIDA REG. NO. 49931
DATE: 4/5/16

HOMOSASSA BLUEPRINT PLANNING SERVICES
WILLIAM P. ANDREWS, DESIGNER
P.O. BOX 2000, CRYSTAL RIVER, FL 34428
11669 N. FULTON DR., CRYSTAL RIVER, FL 34428
352-628-4833

PROJECT FOR:
PINE ISLAND

SCALE: AS SHOWN
DATE: 4-4-16
JOB NO.: HB1630
DRAWN BY: WFA
DESIGN: WFA
DRAWING NO.: HB1630
REVISED:

SHEET 1 OF 1

V-ZONE

RECEIVED
APR 11 2016
HERNANDO COUNTY
BUILDING DIVISION

1355922 #

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AMERICAN CIVIL ENGINEERS HANDBOOK
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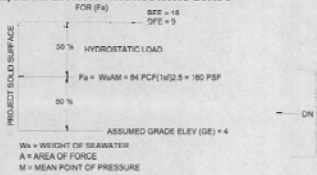

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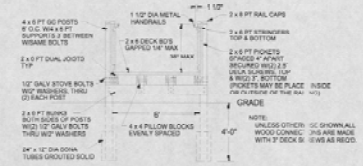
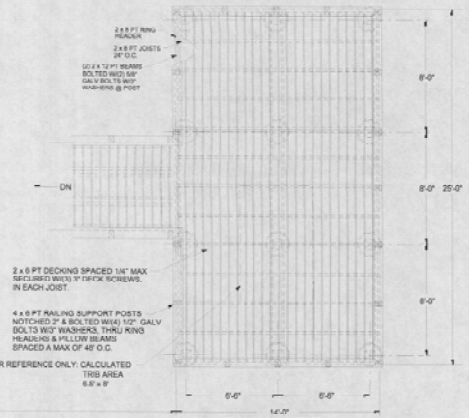
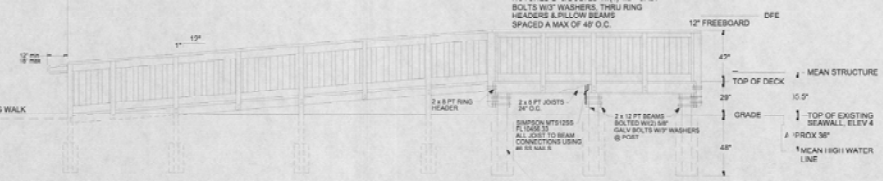


RAMP CROSS SECTION



PLAN VIEW



ELEVATION

6 x 6 PT GC POSTS IN GROUTED 18" DIA SONA TUBES

OBSERVATION DECK

AMERICAN MARINE CONTRACTORS, INC.
1203 SE 4th AVE. CRYSTAL RIVER, FL. 34429

BEAU KEENE, P.E.
CA RC 0002112, BEAUKEENE, P.E. 44001
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352-628-5823

DATE: 4/5/16
BEAU KEENE
P.E. STATE OF FLORIDA

PROJECT FOR: **PINE ISLAND**

SCALE: AS SHOWN
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DRAWING NO. HB 1630

REVISED:

SHEET 1 OF 1

V-ZONE

RECEIVED
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HERNANDO COUNTY
PLANNING & ZONING

1355922 #

GENERAL NOTES:

1. THE STRUCTURAL SPECIFICATIONS AND DRAWINGS FOR THIS WORK HAVE BEEN PREPARED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICE TO MEET THE MINIMUM REQUIREMENTS OF THE 2017 EDITION OF THE FLORIDA BUILDING CODE (FBC) STANDARDS FOR BUILDING CONSTRUCTION AS REQUIRED BY CHAPTER 16, ASCE 7-10 FORCE CALCULATION AND ASCE 24-05 FLOOD RESISTANCE CALCULATION.

2. DEFINITIONS: HEREAFTER REFERRED TO AS THE PROJECT DOCUMENTS.
   - DESIGNERS - ARCHITECTS, ENGINEERS, DESIGNERS, DRAFTSPERSONS OR THEIR AGENTS WHO HAVE CONTRIBUTED TO THE ASSEMBLY OF THE PROJECT DOCUMENTS.
   - OWNER - THAT PERSON, PERSONS OR ENTITY THAT RETAINS LEGAL POSSESSION OF THE PROJECT WHEN COMPLETED.
   - CONTRACTOR - THE PERSON, PERSONS OR ENTITY RESPONSIBLE FOR THE ACTUAL CONSTRUCTION AND CONTROL OF THE PROJECT DOCUMENTS, BE IT OWNER OR HIRED.

3. THESE SPECIFICATIONS AND DRAWINGS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES AND SAFETY UNLESS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS.

4. CONSTRUCTION LOADS SHALL NOT OVERLOAD THE STRUCTURE. NOR SHALL THEY BE IN EXCESS OF DESIGN LOADS FOR ALL APPLICATIONS.

5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, MATERIALS AND CONDITIONS SHOWN ON THE STRUCTURAL DRAWINGS AND/OR NOTED IN STRUCTURAL SPECIFICATIONS. ANY DIFFERENCES WITHIN THE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS, OR WITH CONDITIONS ENCOUNTERED AT THE JOB SITE, SHALL BE REPORTED TO THE OWNER IN WRITING BEFORE COMMENCEMENT OF ANY WORK AFFECTED BY SUCH DIFFERENCES.

6. THE CONTRACTOR SHALL RIGIDLY ADHERE TO ALL LAWS, CODES AND ORDINANCES WHICH APPLY TO THIS PROJECT. HE/SHE SHALL NOTIFY AND RECEIVE CLARIFICATION FROM THE OWNER IN WRITING OF ANY VARIATIONS BETWEEN THE CONTRACT DOCUMENTS AND GOVERNING REGULATIONS.

7. THE CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE DURING PREPARATION. ALL SEDIMENTS OR DISPARATE STRUCTURAL ACTIVITY ABOVE OR BELOW GRADE, AND ANY DISCOVERED NATURAL OBTRUSIVES SHALL BE REPORTED TO THE OWNER IN WRITING PRIOR TO THE START OF CONSTRUCTION.

8. ALL MANUFACTURED MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES AND ETC., SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND THE MINIMUM REQUIREMENTS FOR EMBEDMENT, SPACING AND ETC. AS SET FORTH IN THE FBRC STANDARDS FOR BUILDING CONSTRUCTION.
   ALL LISTED HARDWARE MAY BE SUBSTITUTED WITH EQUAL OR SUPERIOR.

9. NO VARIANCE FROM THE SUBMITTED PROJECT DOCUMENTS BY A BUILDING OFFICIAL, CONTRACTOR AND/OR OWNER SHALL BE BINDING ON THE DESIGNERS UNLESS AGREED TO BY ALL PARTIES IN WRITING.

TRIB AREA MATERIAL WEIGHTS:

POURED CONCRETE = 145 PCF
PT WOOD = 42 PCF
TRIB SF TO POST = 63 SF
WOOD DECK SYSTEM = 7 CF @ 42 PCF = 294 LB
PILLOW BEAMS = 2 CF @ 42 PCF = 84 LB
8' x 8" POSTS = 2.7 CF @ 42 PCF = 113 LB
42" HIGH RAILINGS = 2.3 CF @ 42 PCF = 97 LB
18" DIA SONA TUBE, GROUTED = 5 CF @ 145 PCF = 725 LB

TOTAL TRIB WEIGHT TO SUBGRADE PER POST= 1311 LB

OPEN STRUCTURES
WIND LOAD COMPLIANCE: 140 MPH

CALCULATIONS REPRESENT WORST CASE FOR OVERALL PROJECT.
EXPOSURE D, 0 - 30' ABOVE GROUND

ULTIMATE WIND SPEED (Vult) _____ 140 MPH
FBC-2014, CHAPTER 1609, FIG. 1609C, RISK CAT. I STRUCTURES
NOMINAL WIND SPEED (Vasd) _____ 101 MPH
FBC-2014, CHAPTER 1609, TABLE 1609.3.1
RATED WIND SPEED _____ 140 MPH W/3 SEC GUSTS

WIND IMPORTANCE FACTOR = .77

OPEN STRUCTURE - INTERNAL PRESSURE COEFICIENT = 0.0
(IF REQUIRED) COMPONENTS & CLADDING PRESSURE = +0.3 & -0.6.1
COMPONENT & CLADDING SHALL BE MAINTAINED IN ACCORDANCE WITH FBC CHAPTER 1609, SEC. 1609.6.4.1 AND TABLE 1609.6.3(3)

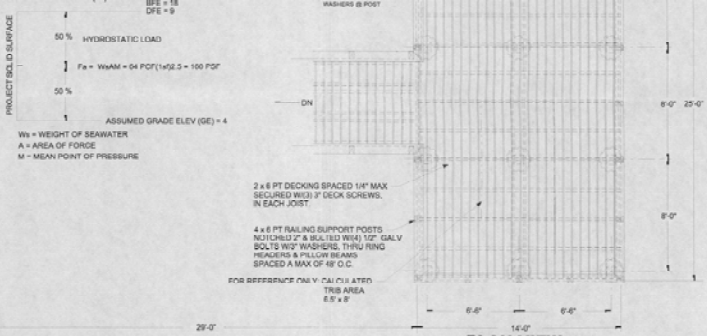
ASCE-7-2010 FORCE CALCULATION:

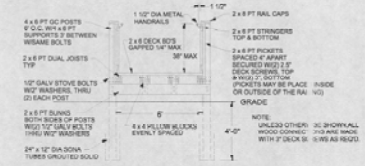
$P = qz(G)Cp - qh(GCpi) =$ 58.2(1.54).8 - 58.2(0.0) = 30.35
$qz=0.00256Kz(I)V^2$ = .00256(1.12)19.600 = 56.2
I=0.77 Kz=0.70 G=1.54 Cp= .8
V=140 qz=qh GCpi= 0.0 (OPEN STRUCTURE)

CODE REQD DESIGN FORCE _____ 33.32 PLF

BASIS FOR UPLIFT:
MEAN STRUCTURE TRIB x DESIGN FORCE = 3 x 33.32 = 100 PLF
UPLIFT PER POST = PLF x POST SPACING = 100 x 6 = 600 LB/POST
TRIB LOAD PER POST = 1311 LB
LOAD EXCEEDS UPLIFT BY 29 % + IN-GRADE DRAG

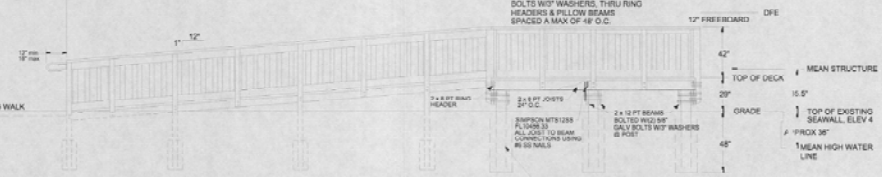
AMERICAN CIVIL ENGINEERS HANDBOOK
PART II, FIFTH EDITION - HYDROSTATIC LOADS





RAMP CROSS SECTION

PLAN VIEW



ELEVATION

OBSERVATION DECK

AMERICAN MARINE CONTRACTORS, INC.
1203 SE 4th AVE. CRYSTAL RIVER, FL. 34429

HOMOSASSA BLUEPRINT PLANNING SERVICES
WILLIAM F. ANDREWS, DESIGNER
P.O. BOX 606
HOMOSASSA, FLORIDA 34487
1555 W. YULEE DR.
342-628-5633

DATE: 4/5/16
BEAU KEENE
PLA 0 - P.E. NO. 46831

BEAU KEENE, P.E.
CA NO. 0000712, BEAU KEENE, P.E.P.E. #46831
PLANNING - SURVEYING - DRAINAGE - UTILITIES
2000 SE 4th ST. OCALA, FL 34471
352 341 1290 TEL. beaukeene@gmail.com

PROJECT FOR:
PINE ISLAND

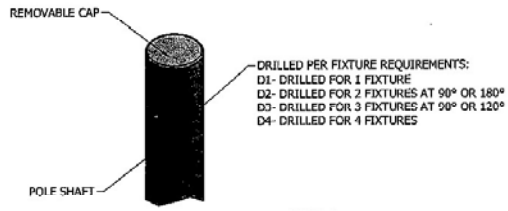
SCALE: AS SHOWN
DATE: 1-4-16
JOB NO. 161103
DRAWN BY: WFA
DESIGN: WFA
DRAWING NO. H61103
REVISED:

SHEET 1 OF 1

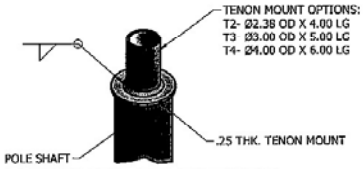
V-ZONE

RECEIVED
APR 11 2016
HERNANDO COUNTY

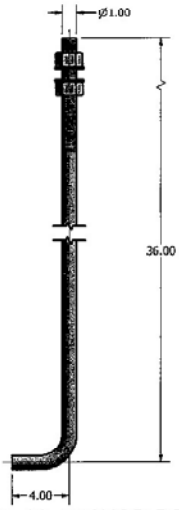
1355922 #



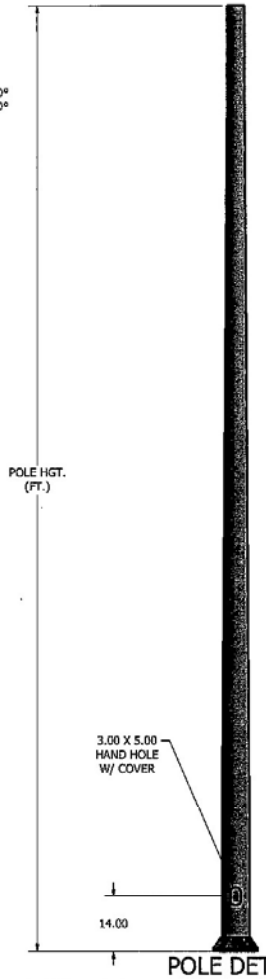
DRILLED MOUNTING OPTIONS



TENON MOUNT OPTIONS



Ø1.00 X 40.00 ANCHOR BOLT



POLE DETAIL

POLE SPECIFICATIONS		
NO.	COMPONENT	MAT'L DESIGNATION
1.	POLE SHAFT	6063-T6
2.	BASE PLATE	A356-T6
3.	ANCHOR BOLTS	F1554 GR. 55
4.	GALVANIZED HARDWARE	A153

FINISH SPECIFICATIONS
POLES SHALL HAVE A POLYESTER POWDER COAT FINISH IN A STANDARD COLOR.

POLE DIMENSIONS				
POLE HGT (FT.)	TOP DIA. (IN.)	BOTTOM DIA. (IN.)	GAGE	MTG. HGT. (FT.)
20'	4.50	7.00	.156	20'

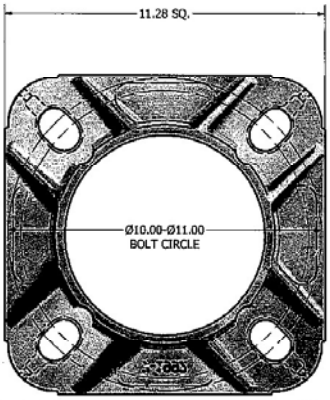
BASE PLATE DIMENSIONS			
BOLT CIRCLE (IN.)	BASE PLATE DIM. (IN.)	BOLT HOLE (IN.)	PLATE THK. (IN.)
10.00-11.00	11.28 SQ	1.13	1.00

ANCHOR BOLT DIMENSIONS	
ANCHOR BOLT DIA. (IN.)	ANCHOR BOLT LENGTH (IN.)
1.00	40.00

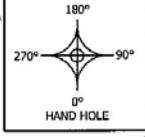
ALLOWABLE WIND LOADING (SQ. FT.)					
WIND*	INDICATED EPA	80 MPH	90 MPH	100 MPH	120 MPH
EPA	-	15.9	12.2	9.7	6.2

*WITH 1.3 GUST FACTOR

3.00 X 5.00 HAND HOLE COVER



11.28 X 11.28 X 3.38 THK. BASE CASTING



DRAWN: M. HARVALA	2/3/2015	
CHECKED		
REVISION:	DATE:	
APPROVED:		
QUOTE:		
S.O.#		
REF:	SCALE: NONE	

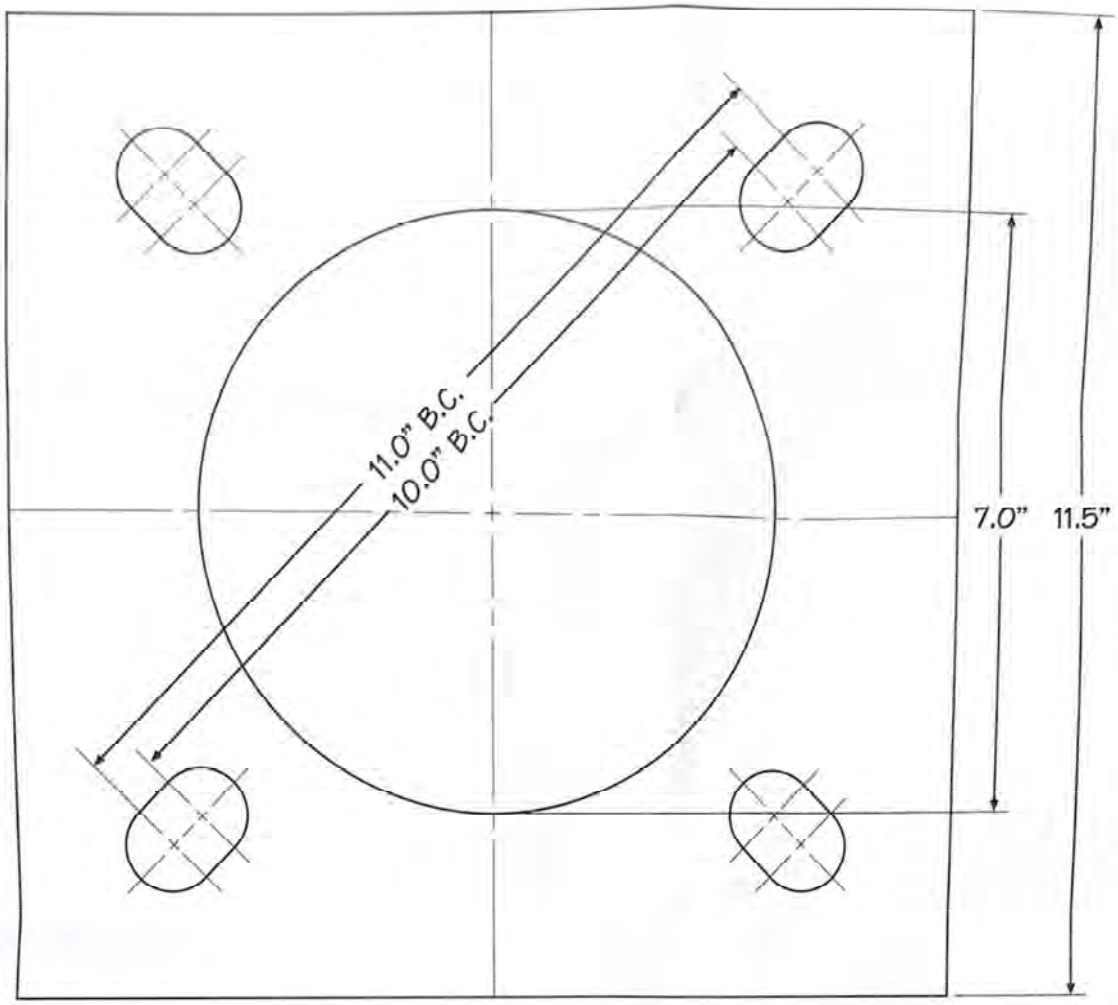
UNITED LIGHTING STANDARDS
A DWN COMPANY
23171 Groesbeck Hwy.
Warren, MI 48089
P: (586) 774-5650 | F: (586) 774-5706
www.unitedlightingstandards.com

SOME GEOGRAPHICAL AREAS HAVE SPECIAL WIND CONDITIONS THAT CAN CREATE WIND INDUCED VIBRATIONS CAUSING A FATIGUE PROBLEM. NO METHOD HAS YET BEEN FOUND FOR PREDICTING DESTRUCTIVE LIGHTING POLE VIBRATION. THESE CONDITIONS ARE UNIQUE AND CANNOT BE GUARANTEED AGAINST, AND ARE THE RESPONSIBILITY OF A LOCAL SITE ENGINEER.

TITLE:

CATALOG:

DWG NO: RTA-745202 | SIZE: C | SHEET 1 OF 1



TEMPLATE NUMBER: T-7A

BOLT PROJECTION: 3.5"

POLE CATALOG NUMBER
RTA-745XX

OVERALL SITE PLAN

PINE ISLAND PARK RESTORATION
SCHEMATIC LAYOUT

Coastal
Engineering
Planning
Surveying
Environmental
Transportation
Construction Management
9999 CoastalAgri Boulevard, Panama City, Florida 32407
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EC-0000112

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DATE	REV. BY	REV. NO.	REVISION

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DRAWING MAYBE UNDER SEAL, DATE & SIGN BY PROFESSIONAL ENGINEER

SHEET
1

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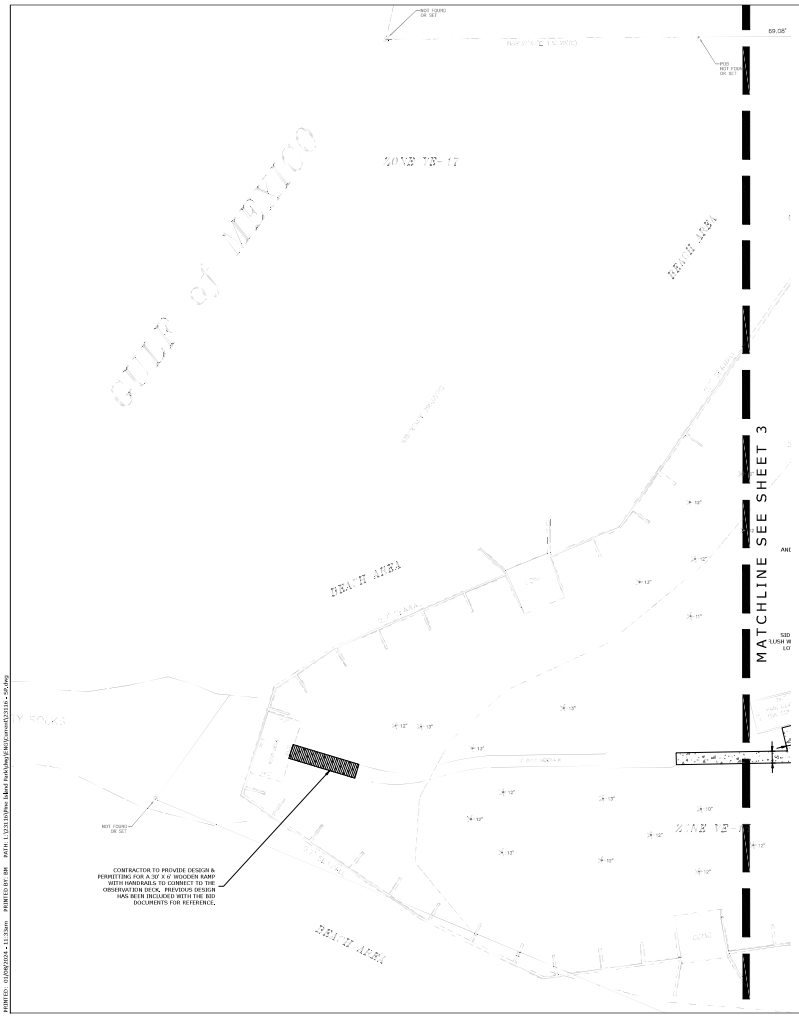
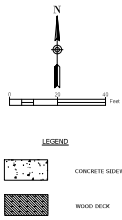
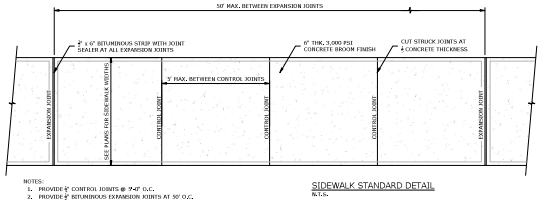
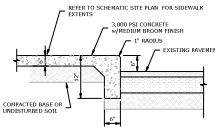




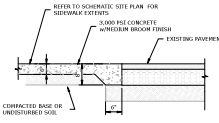


NOTES:
1. PROVIDE 5' CONTROL JOINTS @ 5'-0" O.C.
2. PROVIDE 5' BITUMINOUS EXPANSION JOINTS AT 50' O.C.

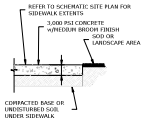
SIDEWALK STANDARD DETAIL
N.T.S.



SIDEWALK CURB & CONCRETE BUFFER DETAIL
N.T.S.



SIDEWALK FLUSH DETAIL
N.T.S.



SIDEWALK AT GREEN AREA
N.T.S.

SITE PLAN (1)

PINE ISLAND PARK RESTORATION
SCHEMATIC LAYOUT

Coastal
Engineering
Planning
Surveying
Environmental
Transportation
Construction Management
995 Cantelupe Boulevard, Suite A • Florida 34601
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2

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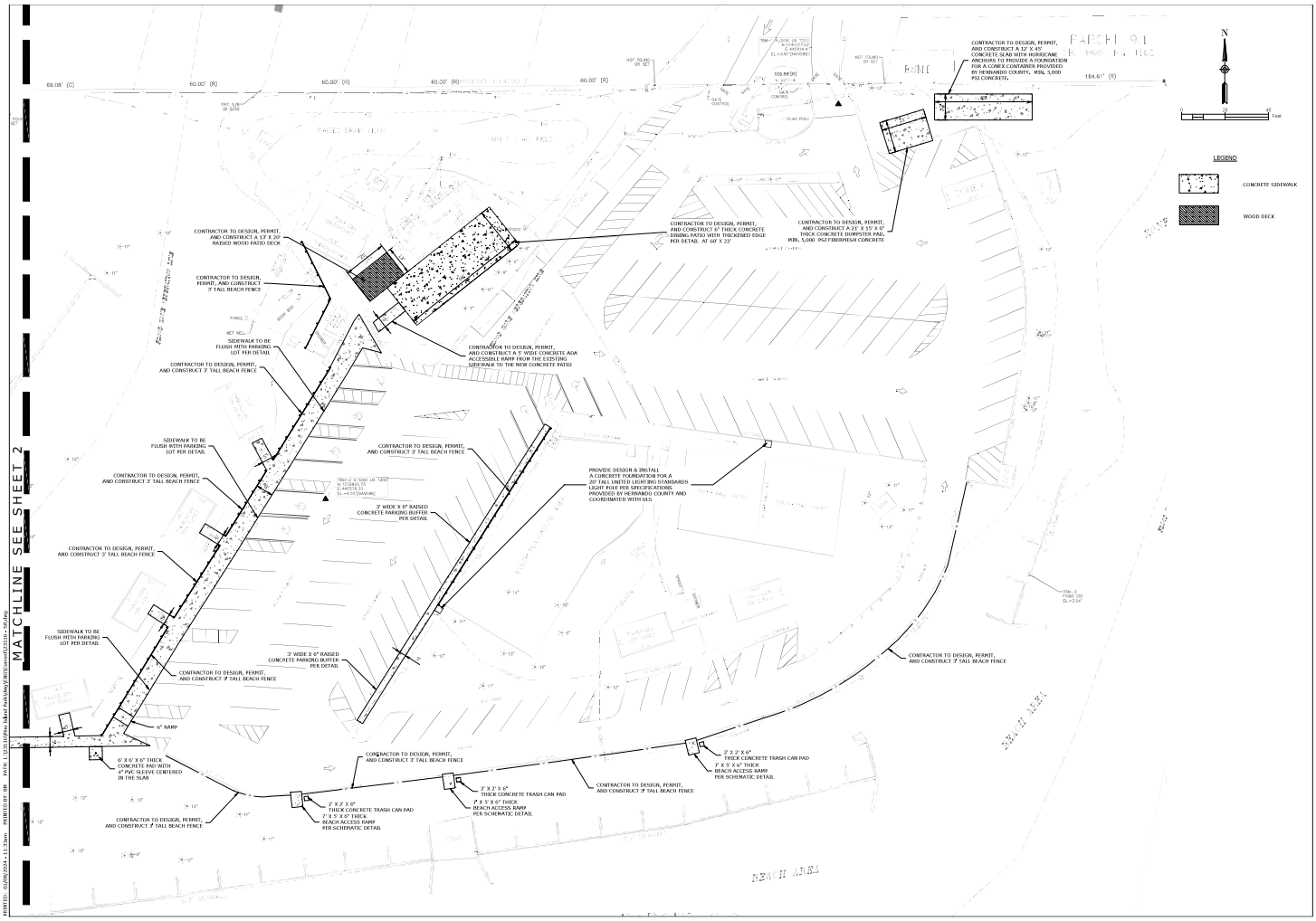

SITE PLAN (2)

PINE ISLAND PARK RESTORATION SCHEMATIC LAYOUT

Coastal
Engineering
Planning
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Environmental
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Construction Management
Coastal Engineering Associates, Inc. • Florida 34601
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SHEET
3

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GENERAL CONSTRUCTION NOTES

1. BENCHMARK DATUM IS NAVD 88.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROL MARKERS AND PROPERTY CORNERS (MONUMENTS, PINS, ETC.) FOR THE DURATION OF CONSTRUCTION. MARKERS SHALL BE CONTINUOUSLY FLAGGED AND SHALL BE RESET IMMEDIATELY BY A FLORIDA LICENSED LAND SURVEYOR IF ANY SHOULD BECOME DISTURBED.
3. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THE CONSTRUCTION PLANS AND ARE NOT ALWAYS ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, ETC. AFFECTING HIS WORK PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, DRIVEWAYS, SIDEWALKS, RETAINING WALLS, ETC. REMOVED OR DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COSTS WITH THE SAME MATERIAL REMOVED OR DAMAGED OR AS DIRECTED BY THE ENGINEER.
5. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO POSSIBLE INCIDENTAL CONFLICTS WITH EXISTING STRUCTURES PLUSH LIKE MAIL BOXES, SIGNS, FENCES, BILLBOARDS, ETC. AND SHALL INCLUDE IN HIS OVERALL COSTS THE REMOVAL AND OR REPLACEMENT AND PROTECTION OF SUCH INCIDENTAL ITEMS.
6. THE CONTRACTOR, PRIOR TO BIDDING THIS WORK, SHALL APPRAISE HIMSELF AS TO ALL ABOVE AND BELOW GROUND FEATURES THAT HE MAY ENCOUNTER DURING CONSTRUCTION AND INCLUDE INTO HIS OVERALL BID ALL COSTS FOR SPECIFIC CONSTRUCTION METHODS AND PROCEDURES THAT NEED TO BE TAKEN TO WORK AROUND SUCH APPURTENANCES.
7. CONSTRUCTION SHALL BE CARRIED OUT IN THE DRY. THE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND DETERMINE METHODS AND EXTENT OF DEWATERING NECESSARY AND SHALL INCLUDE COSTS OF DEWATERING IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS OR REWORK REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING.
8. ALL WORK TO BE PERFORMED FOR THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE BEST PRACTICES OF THE INDUSTRY AND IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND/OR COUNTY CODES, ORDINANCES, STANDARDS AND PERMIT CONDITIONS. FLORIDA BUILDING CODE (LATEST EDITION) AS APPLICABLE.
9. CONTRACTOR SHALL PROVIDE ADDITIONAL COMPACTION TESTING IN ACCORDANCE WITH HERNANDO COUNTY FACILITY DESIGN GUIDELINES", LATEST EDITION, ON ANY PIPE TRENCH WITHIN 3' OF COUNTY ROADWAY PAVEMENT.
10. THE CONTRACTOR IS ADVISED THAT AN NPDES CONSTRUCTION PERMIT MAY BE REQUIRED FOR THIS PROJECT AND THAT THE CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND ADHERING TO THIS PERMIT. REFER TO SUBSECTION 62-621, F.A.C. FOR ADDITIONAL INFORMATION. THE INFORMATION PROVIDED IN THE SWPPP NOTES AND DETAILS SHEETS ARE FOR COMPLIANCE WITH ENVIRONMENTAL RESOURCE PERMITTING UNDER CHAPTER 62-330, F.A.C. AND MAY BE USED AS A REFERENCE FOR COMPLIANCE WITH NPDES PERMITTING BUT ARE NOT NECESSARILY INCLUSIVE OF ALL NPDES REQUIREMENTS.
11. CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED IN WETLAND AREAS UNLESS SUCH CONSTRUCTION CONDITIONS ARE APPROVED IN A PLAN OF OPERATION SUBMITTED TO THE COUNTY & THE APPROPRIATE REGULATORY AUTHORITIES. WHERE CONSTRUCTION IS NECESSARY ADJACENT OR ADJACENT TO WETLAND JURISDICTIONAL AREAS, SILT BARRIERS SHALL BE INSTALLED AS SHOWN ON THE PLANS. SILT BARRIERS SHALL BE CONSIDERED LIMITS OF CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS.
12. ALL TRASH AND CONSTRUCTION DEBRIS PRODUCED FROM THIS PROJECT SHALL BE COLLECTED BY THE CONTRACTOR DAILY. THESE MATERIALS SHALL BE STAGED OR CONTAINERIZED AS NECESSARY TO PREVENT ACCIDENTAL RELEASE. DISPOSAL OF SOLID WASTE MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPAL, COUNTY AND STATE REGULATIONS.
13. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING PORTABLE SANITARY WASTE UNITS ON-SITE FOR USE BY HIS EMPLOYEES DURING CONSTRUCTION.
14. THE CONTRACTOR SHALL MAINTAIN CONTROL OF ANY HAZARDOUS MATERIALS UTILIZED ON-SITE FOR CONSTRUCTION. STORAGE CONTAINERS, VEHICLES, ETC. WILL BE INSPECTED REGULARLY FOR LEAKAGE. A SPILL PREVENTION PLAN SHALL BE ESTABLISHED WHICH COVERS CLEANUP AND NOTIFICATION OF APPROPRIATE GOVERNMENT AGENCIES.
15. CONTRACTOR SHALL NOT REMOVE TREES WITHOUT APPROVAL OF THE LOCAL GOVERNING JURISDICTION. TREE PROTECTION SHALL BE IN ACCORDANCE WITH LOCAL GOVERNING AUTHORITY.
16. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING SITE EROSION AND SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION OR ALTER EXISTING TOPOGRAPHY. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SOD, SYNTHETIC HAY BALES, SAND BAGS OR SEED & MULCH, AS NECESSARY, TO ACHIEVE AN EROSION-FREE SITE (FREE FROM SILTING, ETC.) TO THE LINES AND GRADES SHOWN ON THE PLANS UNTIL FINAL ACCEPTANCE. ALL SLOPES AND SURFACES 4:1 OR STEEPER SHALL BE SODDED. ALL OTHER UNPAVED SURFACES WHICH EXPERIENCE UNDUE EROSION THAT CANNOT BE CONTROLLED BY OTHER MEASURES SHALL BE SODDED. ALL SOD SHALL BE ARGENTINE BAHIA UNLESS SPECIFICALLY SHOWN OTHERWISE IN THE CONTRACT DOCUMENTS. ALL SODDED SLOPES OVER 4:1, SHALL BE INSTALLED WITH SOD PEGS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF TEMPORARY SEDIMENT/EROSION CONTROL DEVICES WHEN NO LONGER NEEDED.

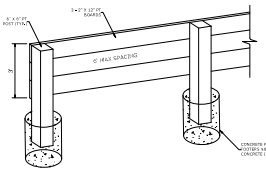
MINIMUM REQUIRED AS-BUILTS

GENERAL

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING A RECORD SURVEY(S) PREPARED AND SUBMITTED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER INCLUDING, BUT NOT LIMITED TO, LOCATION AND FINISHED GRADE ELEVATIONS IN PAVED AND NON-PAVED AREAS SUFFICIENT TO DETERMINE DIRECTION OF SITE DRAINAGE AND ELEVATIONS OF RETENTION/DETENTION AREAS, MITIGATION AREAS AND DITCH/CHANNEL CONVEYANCES INCLUDING TOPS OF BANKS, TOES OF SLOPES, POND BOTTOMS AND WATER LEVELS, ELEVATIONS AND DIMENSIONS OF POND CONTROL STRUCTURES, SPILLWAYS AND UNDERDRAINS, DRAINAGE STRUCTURE GRATE/INLET/RIM ELEVATIONS, STORM PIPE SIZES, PIPE MATERIALS, AND PIPE INVERTS, PLUS LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN. UTILITY INFORMATION SHALL INCLUDE LOCATIONS OF VALVES, FITTINGS, CLEANOUTS, MANHOLES, ETC., METERS AND ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN. TIES TO SANITARY SEWER LINES, MANHOLE RIM AND INVERT ELEVATIONS, CLEANOUTS AND SERVICE CONNECTIONS.
2. ALL DIMENSIONS SHALL BE IN FEET DIMENSIONED OFF CENTERLINE OF ROADS OR OTHER PERMANENT STRUCTURES. IF ONLY ONE DIMENSION CAN BE TAKEN OFF THE CENTERLINE OF ROAD, THE SECOND SHALL BE OFF A PERMANENT MARKER OF REFERENCE POINT.
3. FOUR (4) SETS OF 24X36 SIGNED AND SEALED AS-BUILT DRAWINGS, ONE (1) CD WITH AUTOCAD AND ADOBE PDF'S OF ALL SHEETS SHALL BE SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.

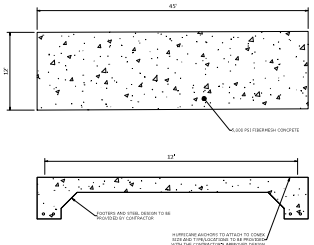
Always call 811 two full business days before you dig
Sunshine811.com

CONCRETE NOTE:
IF STEEL REINFORCING IS USED IN ANY CONCRETE SLABS, MIN. 5,000 PSI CONCRETE OR EPOXY COATED REBAR IS REQUIRED BY ACI-308, CHAPTER 19, CONCRETE IN A CORROSIVE ENVIRONMENT.



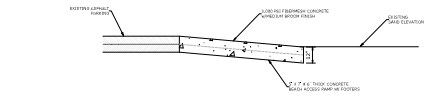
NOTE:
1. CONTRACTOR TO PROVIDE ENGINEERED DESIGN FOR FENCING.
2. CONTRACTOR TO PROVIDE DETAILS FOR AFFIXING BOARDS TO POSTS.

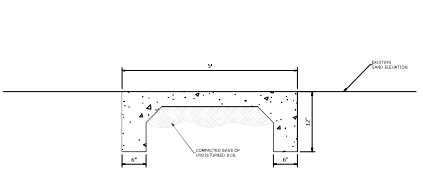
BEACH FENCE DETAIL
N.T.S.



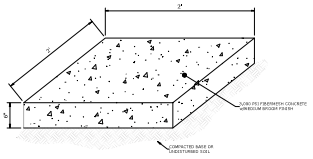
NOTE:
1. CONTRACTOR TO PROVIDE SIGNED AND SEALED DESIGN FOR CONEX SLAB.
2. COUNTY TO PROVIDE SPECIFICATIONS FOR CONEX.

CONEX SLAB DETAIL
N.T.S.

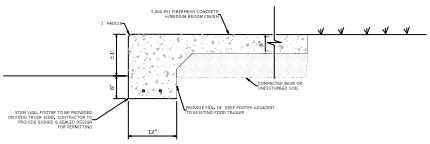




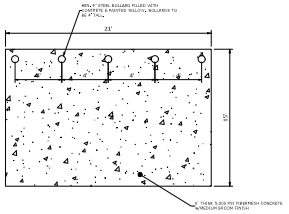
BEACH ACCESS RAMP DETAIL
N.T.S.



CONCRETE TRASH CAN PAD DETAIL
N.T.S.



CONCRETE DINING PATIO CONCEPT
N.T.S.



CONCRETE DUMPSTER PAD DETAIL
N.T.S.

GENERAL NOTES & DETAILS

PINE ISLAND PARK RESTORATION
SCHEMATIC LAYOUT

Coastal
Engineering
Consultants
Surveying
Transportation
Environmental Management
Coastal Engineering Consultants, Inc. - Florida 34601
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DATE	REV. BY	REV. NO.	REVISION

DS
WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
4

JOB NO. 23116

PRINTED: 02/06/2024 - 11:32am PLOT: 1:1(11x17)Pine Island Park(Map)(Schematic)(2023)-GEN.dwg