

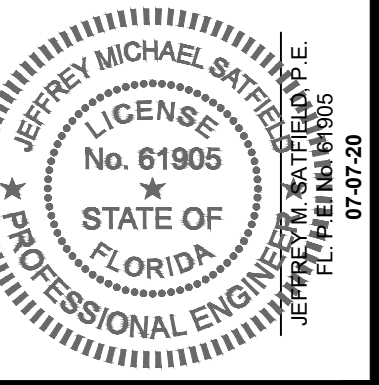
30% SITE CONSTRUCTION PLANS FOR KINGFISH BOAT RAMP IMPROVEMENTS

VERTICAL DATUM: NGVD 1929



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A Full Service
A & E Firm

Plans Prepared By:
CPH, Inc.
State of Florida Licenses:
Engineer No. 3215
Surveyor No. LB7143
Architect No. AA26000926
Landscape No. LC000298



**752 MANATEE AVE W.
HOLMES BEACH
COUNTY OF MANATEE, FLORIDA
SECTION 28 - TOWNSHIP 34 SOUTH - RANGE 16 EAST
PARCEL: 21(PART- A)**

CONSULTANTS

OWNER/DEVELOPER

MANATEE COUNTY
PARKS AND RECREATION
5502 33RD AVENUE DRIVE WEST
BRADENTON, FLORIDA 34209
ATTN: CHARLIE HUNSICKER
(941) 742-5923

ENGINEER

CPH, INC.
3277A FRUITVILLE ROAD
SARASOTA, FLORIDA 34237
ATTN: JEFFREY M. SATFIELD, P.E.
(941) 365-4771

SURVEYOR

CPH, INC.
500 WEST FULTON STREET
SANFORD, FLORIDA 32771
ATTN: THOMAS J. GALLOWAY, P.S.M.
(407) 322-6841

COASTAL ENGINEER

HUMISTON & MOORE ENGINEERS
5679 STRAND COURT
NAPLES, FLORIDA 34110
ATTN: MARC DAMON, P.E.
(239) 594-2021

UTILITY PROVIDERS

ELECTRIC

FLORIDA POWER & LIGHT
WHITFIELD SERVICE CENTER
1253 12TH STREET E
PALMETTO, FLORIDA 34221
ATTN:
(941) 723-4421

TELEPHONE

FRONTIER COMMUNICATIONS
ATTN: TONI CANNON
(813) 875-1014

WATER

MANATEE COUNTY UTILITIES DEPARTMENT
4410 66TH STREET W
BRADENTON, FLORIDA 34210
ATTN:
(941) 792-8811

SEWER

MANATEE COUNTY UTILITIES DEPARTMENT
4410 66TH STREET W
BRADENTON, FLORIDA 34210
ATTN:
(941) 792-8811

GAS

TECO PEOPLES GAS - ST PETERSBURG
1920 9TH AVE N
ST. PETERSBURG, FLORIDA 33713
ATTN: JOAN DOAMING
(813) 275-3783

APPROVAL AGENCIES

CITY OF HOLMES BEACH

DEVELOPMENT SERVICES DIRECTOR
5801 MARINA DRIVE
HOLMES BEACH, FLORIDA 34217
ATTN: ERAN WASSERMAN
(941) 708-5800

MANATEE COUNTY

MANATEE COUNTY PLANNING, DEVELOPMENT & ZONING
1112 MANATEE AVENUE WEST
BRADENTON, FLORIDA
ATTN:
(941) 748-4501

ARMY CORPS OF ENGINEERS

TAMPA PERMITS SECTION
10117 PRINCESS PALM AVENUE, SUITE 120
TAMPA, FLORIDA 33610
(813) 769-7073

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

SOUTHWEST DISTRICT
13051 N TELECOM PKWY., STE. 101
TEMPLE TERRACE, FLORIDA 33637
(813) 470-5700

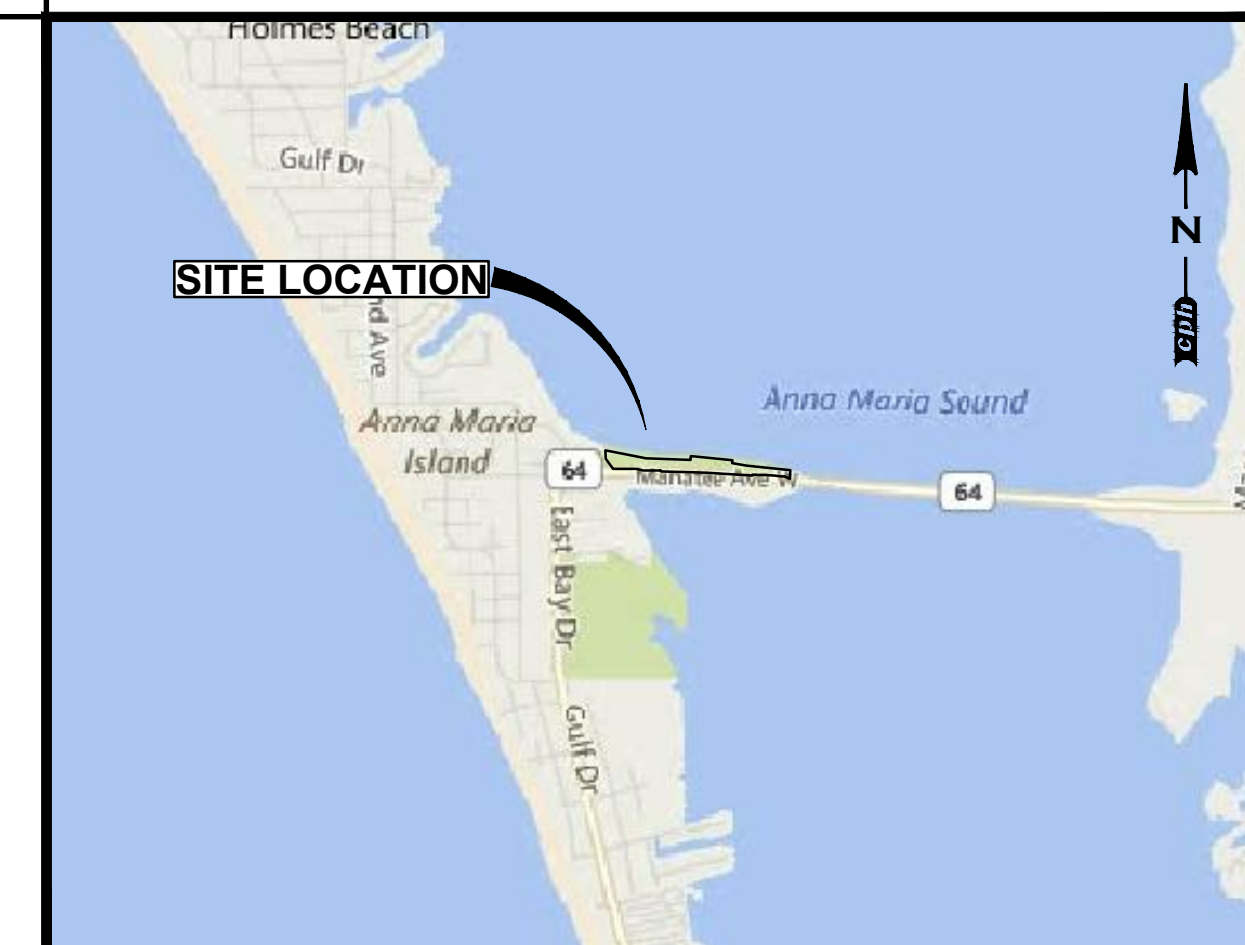
FLORIDA DEPARTMENT OF TRANSPORTATION

MANATEE COUNTY OPERATIONS CENTER
14000 STATE ROAD 64
BRADENTON, FLORIDA 34212
ATTN:
PHONE: (941) 708-4400

INDEX OF SHEETS

SHEET NUMBER	SHEET TITLE	CITY OF HOLMES BEACH	MANATEE COUNTY PUBLIC UTILITIES	SOUTHWEST WATER MANAGEMENT DISTRICT	F.D.O.T.
C0.1	COVER				
1-4	BOUNDARY & TOPOGRAPHIC SURVEY				
C0.2	GENERAL NOTES				
C0.3	GENERAL NOTES				
C1.3	SITE DIMENSION PLAN				
C1.4	GRADING AND STORM DRAINAGE PLAN				
C1.5	COMPOSITE UTILITY PLAN				
C5.1	CONSTRUCTION DETAILS SHEET				
C5.3	AGENCY DETAILS SHEET				
L-5.1	LANDSCAPE CONCEPT SHEET				

MAPS



VICINITY MAP

SCALE: 1" = 2,000'



LOCATION MAP

SCALE: 1" = 500'

No.	Date	Revision

Designed: R. Smith
Drawn: R. Smith
Checked: J. Satfield
Job No.: M13112
Date: 01-2020 © 2020

COVER
KINGFISH BOAT RAMP
MANATEE COUNTY, FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

Sheet No.
CO.1

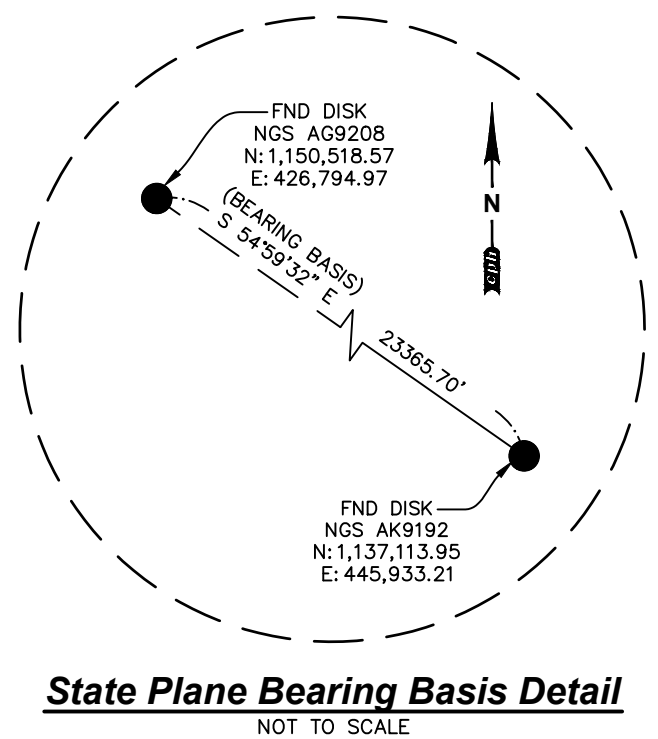
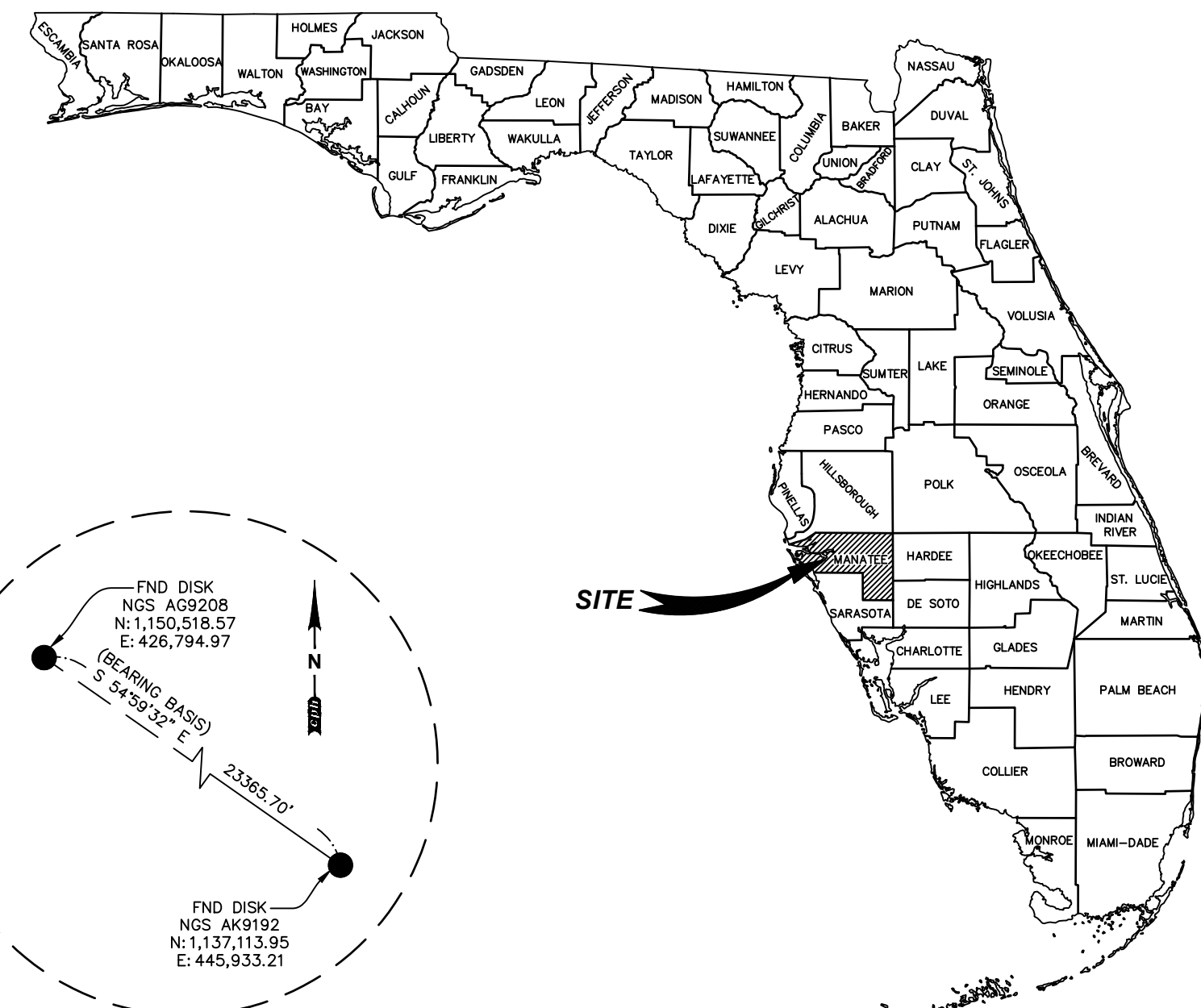
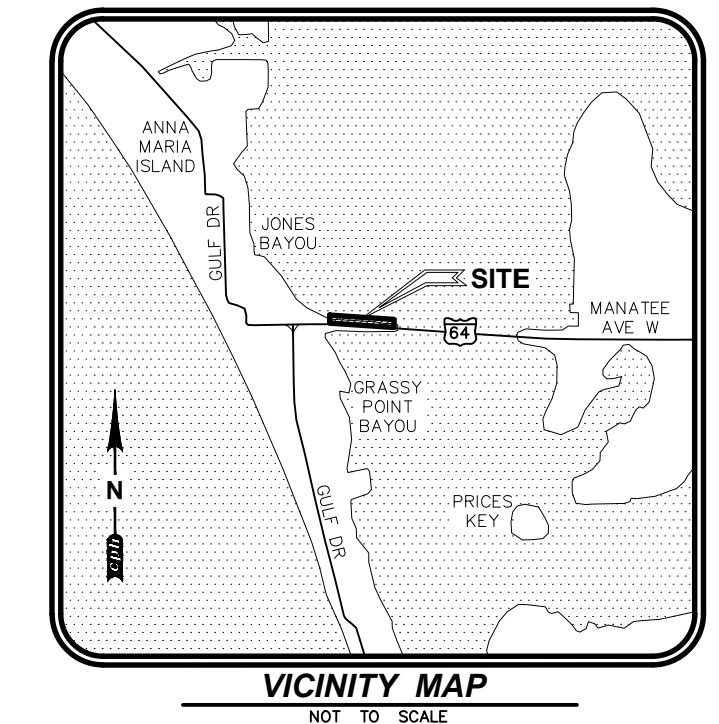


NOTICE
THE SIZE OF THESE PLANS MAY HAVE BEEN SLIGHTLY ALTERED BY REPRODUCTION PROCESSES. THIS MUST BE CONSIDERED WHEN SCALING ANY REPRODUCED PLANS FOR THE PURPOSE OF COLLECTING DATA.

J:\M13112_Kingfish_Boat_Ramp\Civil\DWG_Current_Plan_Set\M13112-C01 COVER.dwg, 7/7/2020 9:44:12 PM, Smith, Ronald_cph - Standard.sab

BOUNDARY & TOPOGRAPHIC SURVEY FOR MANATEE COUNTY

KING FISH BOATRAMP LYING IN SECTION 28-TOWNSHIP 34 SOUTH-RANGE 16 EAST CITY OF HOLMES BEACH, MANATEE COUNTY, FLORIDA



State Plane Bearing Basis Detail NOT TO SCALE

Legal Description: (PER ATTACHMENT D, LEASE AGREEMENT AND RESOLUTION NO. R-09-132, DATED 9/8/2009, PROVIDED BY CLIENT)

PARCEL 21 (PART-A)
THAT PORTION OF SECTION 28, TOWNSHIP 34 SOUTH, RANGE 16 EAST, MANATEE COUNTY, FLORIDA,

BEING DESCRIBED AS FOLLOWS:
COMMENCE AT THE NORTHEAST CORNER OF U.S. GOVERNMENT LOT 2 OF SECTION 28, TOWNSHIP 34 SOUTH, RANGE 16 EAST, MANATEE COUNTY, FLORIDA; THENCE SOUTH 00°40'14" EAST ALONG THE EAST LINE OF SAID LOT 2, A DISTANCE OF 503.47 FEET TO AN INTERSECTION WITH THE CENTERLINE OF STATE ROAD NO. 64 (SECTION 1315-175 & 13150-2524); THENCE ALONG SAID CENTERLINE THE FOLLOWING TWO COURSES: (1) NORTH 89°10'46" EAST A DISTANCE OF 840.90 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE RIGHT HAVING A RADIUS OF 17188.73 FEET; (2) EASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 0°22'54" WITH A CHORD BEARING NORTH 89°22'13" EAST A DISTANCE OF 114.50 FEET TO AN INTERSECTION WITH THE GOVERNMENT MEANDER LINE PLOTTED FROM THE TOWNSHIP MAP PREPARED FROM FIELD NOTES OF J. P. APTHORP DATED JANUARY 1876; THENCE ALONG SAID MEANDER LINE THE FOLLOWING TWO COURSES: (1) NORTH 36°04'39" WEST A DISTANCE OF 63.58 FEET TO THE POINT OF BEGINNING; (2) CONTINUE NORTH 36°04'39" WEST A DISTANCE OF 133.99 FEET TO AN INTERSECTION WITH THE EAST LINE OF WESTBAY COVE CONDOMINIUM I AS PER PLAT THEREOF RECORDED IN CONDOMINIUM BOOK 3, PAGE 66 OF THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA; THENCE NORTH 00°48'58" WEST ALONG SAID EAST LINE A DISTANCE OF 837.2 FEET TO POINT "A"; THENCE SOUTHEASTERLY ALONG THE APPROXIMATE MEAN HIGH WATER LINE OF ANNA MARIA SOUND A DISTANCE OF 433 FEET MORE OR LESS TO POINT "B" WHOSE CLOSING LINE BEARS SOUTH 78°46'58" EAST A DISTANCE OF 432.13 FEET TO SAID POINT "A"; THENCE CONTINUE SOUTHEASTERLY ALONG SAID APPROXIMATE MEAN HIGH WATER LINE A DISTANCE OF 462 FEET MORE OR LESS TO AN INTERSECTION WITH THE FACE OF A SEAWALL AND POINT "C" WHOSE CLOSING LINE BEARS SOUTH 88°04'53" EAST A DISTANCE OF 460.90 FEET TO SAID POINT "B"; THENCE ALONG THE FACE OF SAID SEAWALL THE FOLLOWING THREE COURSES: (1) NORTH 06°05'28" EAST A DISTANCE OF 38.81 FEET; (2) SOUTH 84°25'48" EAST A DISTANCE OF 436.40 FEET; (3) SOUTH 04°45'12" WEST A DISTANCE OF 31.60 FEET TO POINT "D"; THENCE SOUTHEASTERLY ALONG SAID APPROXIMATE MEAN HIGH WATER LINE A DISTANCE OF 170 FEET MORE OR LESS TO POINT "E" WHOSE CLOSING LINE BEARS SOUTH 79°34'42" EAST A DISTANCE OF 154.83 FEET TO SAID POINT "D"; THENCE CONTINUE SOUTHEASTERLY ALONG SAID APPROXIMATE MEAN HIGH WATER LINE A DISTANCE OF 465 FEET MORE OR LESS TO POINT "F" WHOSE CLOSING LINE BEARS SOUTH 84°16'09" EAST A DISTANCE OF 455.45 FEET TO SAID POINT "E"; THENCE SOUTH 04°49'00" WEST A DISTANCE OF 89.77 FEET; THENCE NORTH 86°25'12" WEST A DISTANCE OF 162.53 FEET; THENCE NORTH 85°45'05" WEST A DISTANCE OF 52.12 FEET; THENCE NORTH 85°38'08" WEST A DISTANCE OF 51.91 FEET; THENCE NORTH 85°45'04" WEST A DISTANCE OF 104.22 FEET; THENCE NORTH 88°40'54" WEST A DISTANCE OF 58.61 FEET; THENCE NORTH 86°24'46" WEST A DISTANCE OF 71.54 FEET; THENCE SOUTH 03°43'58" WEST A DISTANCE OF 10.64 FEET; THENCE NORTH 86°32'47" WEST A DISTANCE OF 37.22 FEET; THENCE NORTH 86°07'32" WEST A DISTANCE OF 117.16 FEET; THENCE NORTH 86°25'12" WEST A DISTANCE OF 162.53 FEET; THENCE NORTH 86°49'42" WEST A DISTANCE OF 45.27 FEET; THENCE NORTH 86°18'46" WEST A DISTANCE OF 111.97 FEET; THENCE NORTH 88°11'20" WEST A DISTANCE OF 220.34 FEET; THENCE NORTH 88°38'04" WEST A DISTANCE OF 145.17 FEET; THENCE NORTH 88°28'28" WEST A DISTANCE OF 105.47 FEET TO A POINT ON THE ARC OF A CURVE TO THE RIGHT WHOSE RADIUS POINT BEARS NORTH 38°26'25" EAST AT A DISTANCE OF 50.00 FEET; THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 181°40'11" WITH A CHORD BEARING NORTH 42°26'35" WEST A DISTANCE OF 15.91 FEET; THENCE NORTH 90°00'00" WEST A DISTANCE OF 126.92 FEET; THENCE SOUTH 89°29'43" WEST A DISTANCE OF 12.41 FEET; THENCE NORTH 89°14'11" WEST A DISTANCE OF 42.67 FEET; THENCE NORTH 77°37'41" WEST A DISTANCE OF 70.15 FEET; THENCE NORTH 88°41'34" WEST A DISTANCE OF 39.42 FEET; THENCE NORTH 89°58'16" WEST A DISTANCE OF 203.81 FEET TO THE POINT OF BEGINNING. LYING AND BEING IN SECTION 28, TOWNSHIP 34 SOUTH, RANGE 16 EAST, MANATEE COUNTY, FLORIDA.

CONTAINING 5.48 ACRES, MORE OR LESS.

Survey Notes:

- COPIES OF THIS SURVEY ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- THIS SURVEY IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

THE SITE BENCHMARKS FOR THIS TOPOGRAPHIC SURVEY ARE DISPLAYED ON THE RESPECTIVE SURVEY FILE. THESE BENCHMARKS ARE BASED ON A CLOSED VERTICAL CONTROL LOOP HAVING AN ACTUAL ERROR OF CLOSURE OF 0.016" WHICH MEETS THE ALLOWABLE CLOSURE OF 0.032". THIS FIELDWORK WAS PERFORMED USING TOPCON GPS HIPER V AND REFERENCES THE FOLLOWING PUBLISHED BENCHMARKS AS ESTABLISHED BY THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) AND ALL VERTICAL INFORMATION INCLUDING SPOT ELEVATIONS, NOTATIONS AND THE CONTOUR LINES DERIVED THEREFROM ARE BASED ON AND MATCHED TO VERTICAL CONTROL BENCHMARKS SUPPLIED BY FLORIDA DEPARTMENT OF TRANSPORTATION ON FINANCIAL PROJECT ID# 408185-3, STATE ROAD NO. 64, AS FOLLOWS:

- o) DESIGNATION #DOT 13-16-02 (NAVD '88) ELEVATION = 11.42
- b) DESIGNATION #DOT BM 1-B (NAVD '88) ELEVATION = 2.12

SITE BENCHMARKS ARE AS SHOWN ON SHEET 3 AND 4 OF 4.

- THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 THROUGH 4 OF 4.
- THE LAST DAY FIELD WORK WAS PERFORMED WAS MAY 6, 2020; ALL BOUNDARY CORNERS WERE RECOVERED OR SET AS NOTED HEREON.

THE "LEGAL DESCRIPTION" HEREON IS IN ACCORD WITH THE "ATTACHMENT D, LEASE AGREEMENT AND RESOLUTION NO. R-09-132, DATED 9/8/2009, (ENDING 9/8/2034 SUBJECT TO AN ADDITIONAL 25 YEAR TERM) AND WAS PROVIDED BY THE CLIENT.

BEARINGS SHOWN HEREON ARE RELATIVE TO THE LINE BETWEEN TWO STATE PLANE CONTROL POINTS HAVING A CALCULATED BEARING OF S 54°59'32" E (SEE DETAIL).

HAVING CONSULTED THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 125114 02777 E, CITY OF HOLMES BEACH, EFFECTIVE DATE MARCH 17, 2014, THE SUBJECT PROPERTY APPEARS TO LIE IN ZONE AE, WHICH ARE AREAS DETERMINED TO BE SPECIAL FLOOD HAZARD AREAS INUNDED BY 100 YEAR FLOOD WITH BASIC FLOOD ELEVATIONS DEPICTED LYING BETWEEN 8 AND 10 FEET (NAVD '88). THIS DETERMINATION WAS BASED ON A GRAPHIC INTERPOLATION OF SAID MAP AND NOT ON ACTUAL FIELD MEASUREMENTS.

THE APPARENT USE OF THE LAND, AS CLASSIFIED BY THE STANDARDS OF PRACTICE SET FORTH IN RULE CHAPTER 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO FS 472.027, ESTABLISHES THAT THE MINIMUM RELATIVE ACCURACY FOR THIS TYPE OF BOUNDARY SURVEY MEET THE HORIZONTAL CONTROL ACCURACY OF 1/10,000 FEET FOR A HIGH RISK SURVEY. THE MEASUREMENTS AND CALCULATIONS OF THE CLOSED GEOMETRIC FIGURES WERE FOUND TO MEET THIS ACCURACY REQUIREMENT. THE EQUIPMENT USED TO VERIFY THE HORIZONTAL CONTROL ON THE SUBJECT SURVEY WAS A TOPCON GPS HIPER V.

HORIZONTAL WELL-IDENTIFIED FEATURES IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED HORIZONTAL POSITIONAL ACCURACY OF 0.05 (FT). THE EQUIPMENT USED TO LOCATE THE FEATURES WAS A LEICA SCANSTATION C10, TOPCON GPS HIPER V.

THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR OPINION OF TITLE. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY, AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS NOTED BELOW. MANATEE COUNTY PROPERTY APPRAISER INFORMATION DISPLAYED HEREON AS PARCEL ID# 15 PER THE MANATEE COUNTY PROPERTY APPRAISER'S WEBSITE (WWW.MANATEEPAO.COM) AS OF 5/6/2020.

NO UNDERGROUND UTILITIES, FOUNDATIONS OR IMPROVEMENTS, IF ANY, HAVE BEEN LOCATED EXCEPT AS SHOWN.

FENCES AND WALLS EXISTING ON, OVER OR ADJACENT TO SUBJECT PROPERTY, ARE DISPLAYED HEREON; OWNERSHIP WHETHER SINGULAR OR JOINT WAS NOT DETERMINED BY THIS SURVEY.

VERTICAL FEATURE ACCURACY: "ELEVATIONS OF WELL-IDENTIFIED FEATURES CONTAINED IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED VERTICAL POSITIONAL ACCURACY OF 0.05 (FT)."

THE UNDERGROUND UTILITIES LABELED UE, UT, UG, AND UFO LINES DISPLAYED ON SHEETS 3 THROUGH 4 ARE A RESULT OF AN ELECTRONIC FILE CREATED BY SOUTHEASTERN SURVEYING & MAPPING CORP. (6500 ALL AMERICAN BOULEVARD, ORLANDO FL 32810, [407] 292-8580) AND MATCHED TO DIAGRAMS AND DETAIL SHEETS PREPARED BY SOUTHEASTERN SURVEYING & MAPPING CORP..

STATE PLANE INFORMATION SHOWN HEREON IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (1990) USING CONTROL POINTS FROM THE NGS DATA SHEETS PUBLISHED AT WWW.LABS.NGS.NOAA.GOV AND ARE AS FOLLOWS: FLORIDA WEST ZONE

A) DESIGNATION # GIS 103, PID #AG9208 = N 1,150,518.57 FEET, E 426,794.97 FEET
B) DESIGNATION # M 087, PID #AG9192 = N 1,137,113.95 FEET, E 445,933.21 FEET

THE EQUIPMENT USED TO TRANSFER THE STATE PLANE INFORMATION FROM THE ABOVE REFERENCED CONTROL POINTS TO THE SUBJECT SURVEY WAS A TOPCON GPS HIPER V.

THE DISPLAYED LIMITS OF WETLANDS ARE BASED UPON THE FIELD LOCATION OF FLAGS OR STAKES SET BY CPH ENVIRONMENTAL DEPARTMENT AND LOCATED BY THE SURVEYOR ON 5/6/2020.

DIMENSIONS ARE SHOWN RELATIVE TO UNITED STATES STANDARD FEET AND DECIMALS THEREOF, UNLESS THE OBJECT SHOWN IS COMMONLY IDENTIFIED IN INCHES, I.E. TREE DIAMETER, PIPE DIAMETER, ETC. TREES DEPICTED ARE COMMON NAMES AND MEASURED AND LABELED AS DIAMETER AT BREAST HEIGHT IN INCHES.

CERTAIN INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY, AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR AS NOTED OR DISPLAYED HEREON.

TREE SIZE (DIAMETER AS MEASURED IN INCHES AT BREAST HEIGHT), COMMON NAME, SPECIES, CONDITION, AND NOTATIONS OF THE TREES LISTED HEREON WERE FURNISHED TO THE SURVEYOR BY CPH, INC. ENVIRONMENTAL DEPARTMENT. SEE SHEETS 3 THROUGH 4 FOR TREE LOCATIONS FOR SPECIFIC NUMBERED TREES.

Index of Sheets

- 1 COVER SHEET
- 2 BOUNDARY SURVEY
- 3-4 TOPOGRAPHIC SURVEY

Surveyor's Certification:

I hereby certify that the attached "Boundary & Topographic Survey" of the hereon-described property is true and correct to the best of my knowledge, information and belief as surveyed in the field on May 6, 2020. I further certify that this "Boundary & Topographic Survey" meets the standards of practice set forth in Rule Chapter 5J-17 of the Florida Administrative Code, pursuant to FS 472.027.

NOTE:
THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 THROUGH 4 OF 4.
TITLE BLOCK ABBREVIATIONS
Eng. = ENGINEERING, L.R. = LICENSED BUSINESS
C.O.A. = CERTIFICATE OF AUTHORIZATION, Arch. = ARCHITECTURAL
Landscape = LANDSCAPE, NA = NOT APPLICABLE, Lic. = LICENSED
No. = NUMBER, P.O. = POST OFFICE, © = COPYRIGHT

For the Firm By: Paul J. Katrek
Professional Surveyor and Mapper
Florida Registration No. 6233

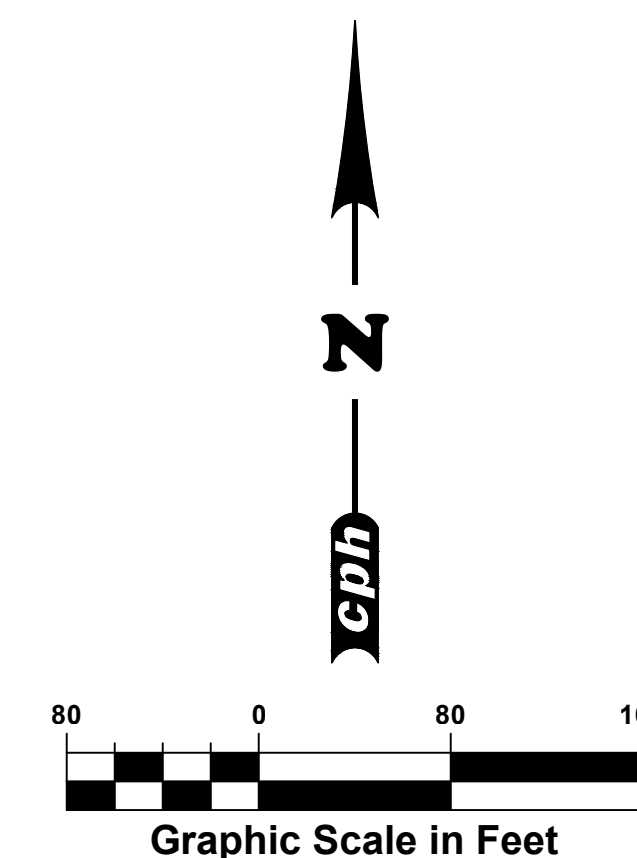
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Field Crew:	P.H.	Drawn by:	R.L.R.	Checked by:	P.J.K.	Approved by:	N/A	Date:	5/6/2020	Job No.:	M13112	File:	M13112.dwg	No.	Date

Survey Prepared by
CPH, Inc.
600 West Fulton St.
Sanford, FL 32771
Ph: 407.322.6841
Licenses:
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA260928
Landscape Lic. No. LC000298

BOUNDARY & TOPOGRAPHIC SURVEY
MANATEE COUNTY
KINGFISH BOATRAMP
SECTION 28-TOWNSHIP 34 SOUTH-RANGE 16 EAST
MANATEE COUNTY, FLORIDA

Sheet No.
1
of 4

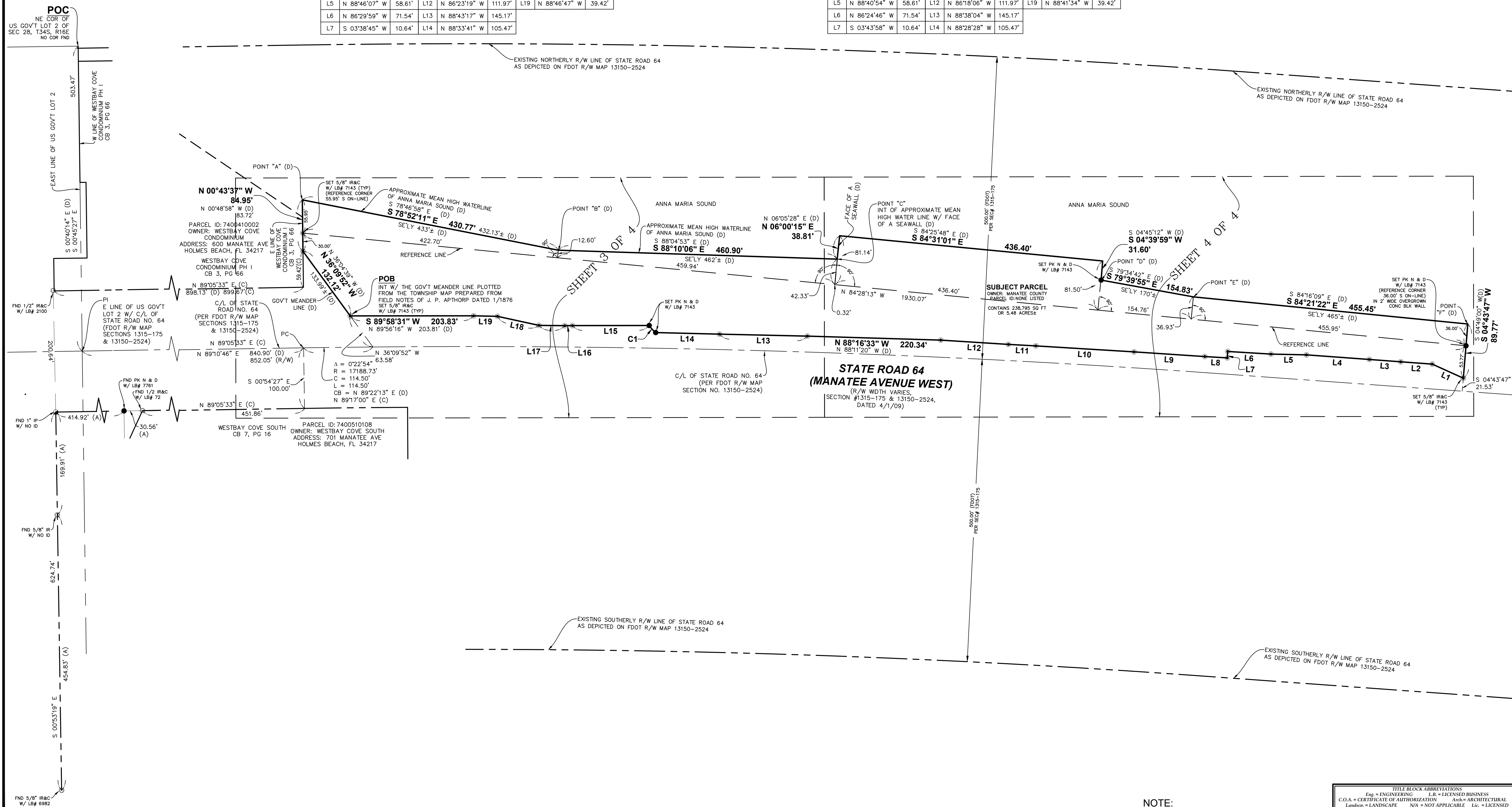


(ACTUAL)(STATE PLANE)

LINE TABLE				LINE TABLE				LINE TABLE				CURVE TABLE						
LINE	BEARING	LENGTH		LINE	BEARING	LENGTH		LINE	BEARING	LENGTH		CURVE	DELTA	LENGTH	RADIUS	CHORD	CHORD BEARING	
L1	N 65°38'32" W	56.45'		L8	N 86°38'00" W	37.22'		L15	S 89°54'47" W	126.92'		C1	181°3'53"	15.91'	50.00'	15.84'	N 42°31'48" W	
L2	N 85°50'18" W	52.12'		L9	N 86°12'45" W	117.16'		L16	S 89°24'30" W	12.41'								
L3	N 85°41'21" W	51.91'		L10	N 86°30'25" W	162.53'		L17	N 89°19'24" W	42.67'								
L4	N 85°50'17" W	104.22'		L11	N 86°54'55" W	45.27'		L18	N 77°42'54" W	70.15'								
L5	N 88°46'07" W	58.61'		L12	N 86°23'19" W	111.97'		L19	N 88°46'47" W	39.42'								
L6	N 86°29'59" W	71.54'		L13	N 88°43'17" W	145.17'												
L7	S 03°38'45" W	10.64'		L14	N 88°33'41" W	105.47'												

(DEED DESCRIPTION)

LINE TABLE				LINE TABLE				LINE TABLE				CURVE TABLE						
LINE	BEARING	LENGTH		LINE	BEARING	LENGTH		LINE	BEARING	LENGTH		CURVE	DELTA	LENGTH	RADIUS	CHORD	CHORD BEARING	
L1	N 65°33'19" W	56.45'		L8	N 86°32'47" W	37.22'		L15	N 90°00'00" W	126.92'		C1	181°4'01"	15.91'	50.00'	15.84'	N 42°26'35" W	
L2	N 85°45'05" W	52.12'		L9	N 86°07'32" W	117.16'		L16	S 89°29'43" W	12.41'								
L3	N 85°36'08" W	51.91'		L10	N 86°25'12" W	162.53'		L17	N 89°14'11" W	42.67'								
L4	N 85°45'04" W	104.22'		L11	N 86°49'42" W	45.27'		L18	N 77°37'41" W	70.15'								
L5	N 88°40'54" W	58.61'		L12	N 86°18'06" W	111.97'		L19	N 88°41'34" W	39.42'								
L6	N 86°24'46" W	71.54'		L13	N 88°38'04" W	145.17'												
L7	S 03°43'58" W	10.64'		L14	N 88°28'28" W	105.47'												



POC
NE COR OF
US GOVT LOT 2 OF
SEC 28, T34S, R16E
NO COR FND

WESTBAY COVE
CONDOMINIUM PH I
CB 3, PG 66
E LINE OF US GOVT
LOT 2 W/ C/L OF
STATE ROAD NO. 64
(FDOT R/W MAP
SECTIONS 1315-175
& 13150-2524)
N 89°05'33" E (C)
898.13' (D) 899.67' (C)

WESTBAY COVE
CONDOMINIUM PH I
CB 3, PG 16
OWNER: WESTBAY COVE SOUTH
ADDRESS: 701 MANATEE AVE
HOLMES BEACH, FL 34217
N 89°05'33" E (C)
840.90' (D) 852.05' (R/W)
S 00°54'27" E
100.00'

STATE ROAD 64
(MANATEE AVENUE WEST)
(R/W WIDTH VARIES,
SECTION #1315-175 & 13150-2524,
DATED 4/1/09)
C/L OF STATE ROAD NO. 64
(PER FDOT R/W MAP
SECTION NO. 13150-2524)
N 88°16'33" W
220.34'

ANNA MARIA SOUND
APPROXIMATE MEAN HIGH WATERLINE
OF ANNA MARIA SOUND (D)
S 88°10'06" E
460.90'

ANNA MARIA SOUND
APPROXIMATE MEAN HIGH WATERLINE
OF ANNA MARIA SOUND (D)
N 06°00'15" E
38.81'

SUBJECT PARCEL
OWNER: MANATEE COUNTY
PARCEL ID: NONE LISTED
CONTAINS 238,785 SQ FT
OR 5.48 ACRES
S 04°39'59" W
31.60'

WESTBAY COVE
CONDOMINIUM PH I
CB 3, PG 16
OWNER: WESTBAY COVE SOUTH
ADDRESS: 701 MANATEE AVE
HOLMES BEACH, FL 34217
S 04°43'47" W
89.77'

No.	Date	By	Revision

Field Crew:
Drawn by: D.T.J.F.F.
Checked by: R.L.R.
Approved by: P.J.K.
Scale: 1"=80'
Date: 5/6/2020
Job No.: M13112
File: M13112.dwg

Survey Prepared By
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Ph: 407.322.8841
Licenses:
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA26092928
Landscape Lic. No. LC000298

BOUNDARY & TOPOGRAPHIC SURVEY
MANATEE COUNTY
KINGFISH BOATRAMP
SECTION 28-TOWNSHIP 34 SOUTH-RANGE 16 EAST
MANATEE COUNTY, FLORIDA

NOTE:
THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 THROUGH 4 OF 4.

Eng. = ENGINEERING	L.R. = LICENSED BUSINESS
C.O.A. = CERTIFICATE OF AUTHORIZATION	Arch. = ARCHITECTURAL
Landscape = LANDSCAPE	N/A = NOT APPLICABLE
Lic. = LICENSED	No. = NUMBER
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Tree #	DBH (in.)	Common Name	Botanical Name	Condition
1022	8.4	Cabbage Palm	<i>Sabal palmetto</i>	2
1023	9.9	Cabbage Palm	<i>Sabal palmetto</i>	2
1024	10.3	Cabbage Palm	<i>Sabal palmetto</i>	2
1025	9.6	Cabbage Palm	<i>Sabal palmetto</i>	3
1026	10	Cabbage Palm	<i>Sabal palmetto</i>	2
1027	11	Cabbage Palm	<i>Sabal palmetto</i>	3
1028	12.4	Cabbage Palm	<i>Sabal palmetto</i>	3
1029	12.2	Cabbage Palm	<i>Sabal palmetto</i>	3
1030	12.9	Cabbage Palm	<i>Sabal palmetto</i>	6
1031	12	Cabbage Palm	<i>Sabal palmetto</i>	2
1032	12.3	Cabbage Palm	<i>Sabal palmetto</i>	3
1033	11.3	Cabbage Palm	<i>Sabal palmetto</i>	3
1034	12	Cabbage Palm	<i>Sabal palmetto</i>	3
1035	5.2	Gumbo Limbo	<i>Bursera simaruba</i>	3
1036	6.9	Gumbo Limbo	<i>Bursera simaruba</i>	3
1037	8	Gumbo Limbo	<i>Bursera simaruba</i>	3
1038	7.4	Jamaica Dogwood	<i>Piscidia piscipula</i>	2
1039	13	Cabbage Palm	<i>Sabal palmetto</i>	2
1040	5.1	Live Oak	<i>Quercus virginiana</i>	3
1041	8.5	Mimosa	<i>Lysiloma latisiliquum</i>	2
1042	6	Silver Buttonwood	<i>Conocarpus erectus</i>	3
1043	7	Silver Buttonwood	<i>Conocarpus erectus</i>	4

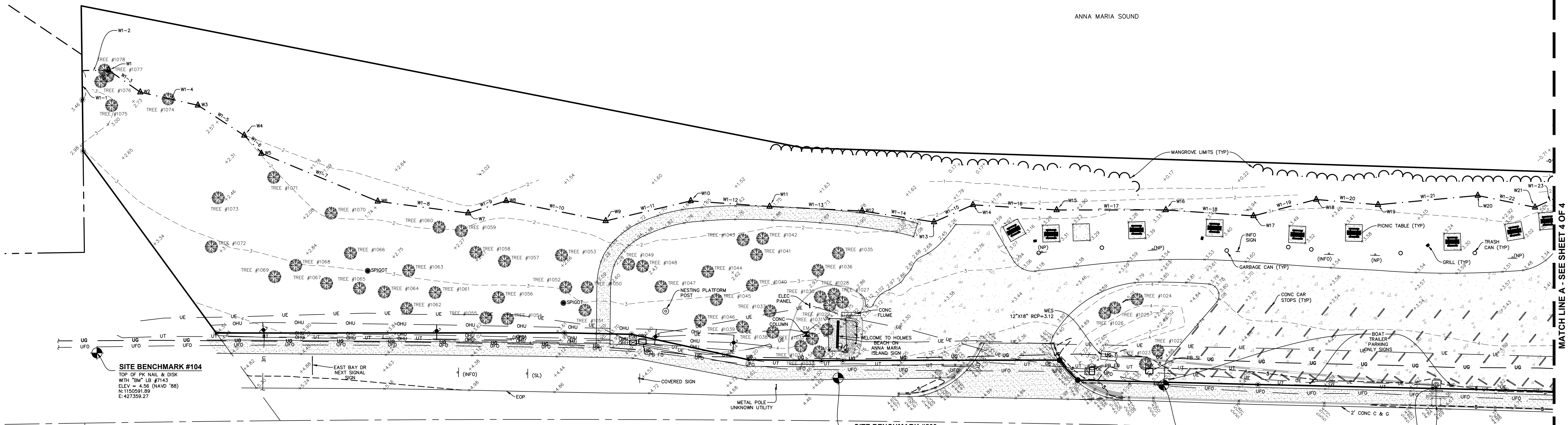
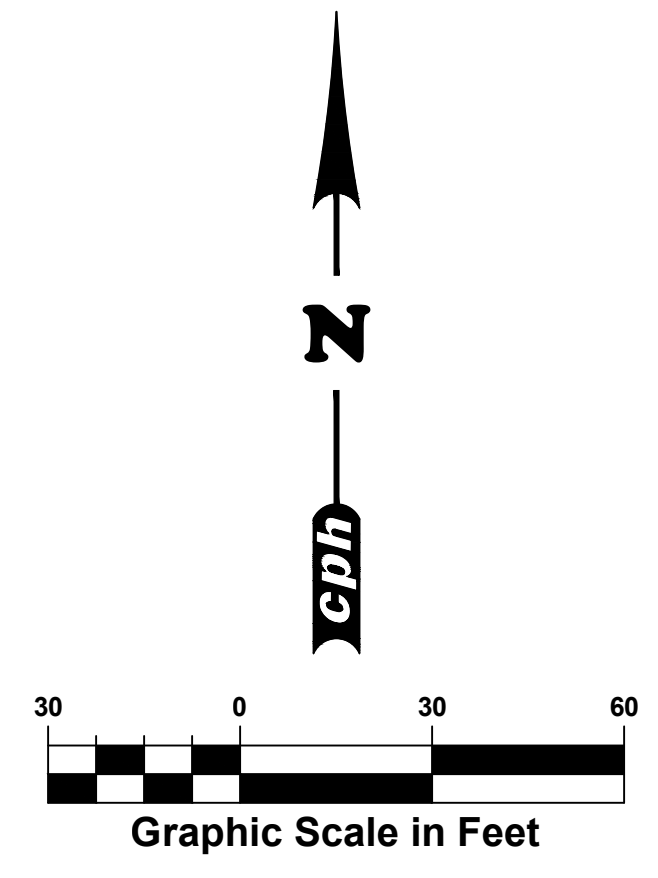
Tree #	DBH (in.)	Common Name	Botanical Name	Condition
1044	13.1	Fig	<i>Ficus sp.</i>	2
1045	11.5	Cabbage Palm	<i>Sabal palmetto</i>	2
1046	8.7	Cabbage Palm	<i>Sabal palmetto</i>	2
1047	3.8	Live Oak	<i>Quercus virginiana</i>	3
1048	10.3	Cabbage Palm	<i>Sabal palmetto</i>	3
1049	9.9	Cabbage Palm	<i>Sabal palmetto</i>	3
1050	8	Silver Buttonwood	<i>Conocarpus erectus</i>	3
1051	10.4	Jamaica Dogwood	<i>Piscidia piscipula</i>	3
1052	6.9	Green Buttonwood	<i>Conocarpus erectus</i>	5
1053	10	Cabbage Palm	<i>Sabal palmetto</i>	3
1054	9.3	Cabbage Palm	<i>Sabal palmetto</i>	3
1055	10.2	Cabbage Palm	<i>Sabal palmetto</i>	3
1056	10.9	Cabbage Palm	<i>Sabal palmetto</i>	3
1057	12	Cabbage Palm	<i>Sabal palmetto</i>	3
1058	10	Cabbage Palm	<i>Sabal palmetto</i>	3
1059	12	Cabbage Palm	<i>Sabal palmetto</i>	3
1060	10	Cabbage Palm	<i>Sabal palmetto</i>	3
1061	14.9	Mimosa	<i>Lysiloma latisiliquum</i>	3
1062	8	Jamaica Dogwood	<i>Piscidia piscipula</i>	3
1063	4.2	Live Oak	<i>Quercus virginiana</i>	3
1064	4.5	Green Buttonwood	<i>Conocarpus erectus</i>	3
1065	4.5	Green Buttonwood	<i>Conocarpus erectus</i>	4

Tree #	DBH (in.)	Common Name	Botanical Name	Condition
1066	8.7	Mimosa	<i>Lysiloma latisiliquum</i>	2
1067	13.6	Mimosa	<i>Lysiloma latisiliquum</i>	2
1068	4.2	Gumbo Limbo	<i>Bursera simaruba</i>	3
1069	4.2	Green Buttonwood	<i>Conocarpus erectus</i>	3
1070	3.2	Live Oak	<i>Quercus virginiana</i>	3
1071	8	Green Buttonwood	<i>Conocarpus erectus</i>	3
1072	4.1	Live Oak	<i>Quercus virginiana</i>	3
1073	10.9	Cabbage Palm	<i>Sabal palmetto</i>	3
1074	15	Mexican Fan Palm	<i>Washingtonia robusta</i>	3
1075	8.8	Gumbo Limbo	<i>Bursera simaruba</i>	3
1076	12	Cabbage Palm	<i>Sabal palmetto</i>	3
1077	11	Cabbage Palm	<i>Sabal palmetto</i>	3
1078	10.8	Gumbo Limbo	<i>Bursera simaruba</i>	3

NOTE: FROM ENVIRONMENTAL "TREE CONDITION RATING ARE BASED ON AN EVALUATION OF HEALTH, STRUCTURE, AND FORM AS DESCRIBED IN THE "GUIDE TO PLANT APPRAISAL, 10TH EDITION" (1-EXCELLENT, 2-GOOD, 3-FAR, 4-POOR, 5-VERY POOR, 6-DEAD)

NOTE: AUSTRALIAN PINES ARE AN INVASIVE SPECIES AND THEREFORE NOT LOCATED BY CPH ENVIRONMENTAL

WETLAND LINE TABLE			WETLAND LINE TABLE			WETLAND LINE TABLE		
LINE	BEARING	LENGTH	LINE	BEARING	LENGTH	LINE	BEARING	LENGTH
W1-1	S 00°44'45" E	17.09'	W1-9	N 72°03'03" E	23.34'	W1-17	N 89°58'49" E	63.94'
W1-2	N 89°15'15" E	15.52'	W1-10	S 78°37'06" E	59.51'	W1-18	S 86°06'10" E	51.45'
W1-3	S 55°15'26" E	22.61'	W1-11	N 76°46'35" E	51.11'	W1-19	N 75°19'42" E	37.94'
W1-4	S 77°10'30" E	34.59'	W1-12	S 85°58'44" E	46.29'	W1-20	S 85°10'58" E	36.32'
W1-5	S 57°00'04" E	32.35'	W1-13	S 87°12'57" E	54.20'	W1-21	N 84°43'55" E	58.64'
W1-6	S 44°58'20" E	15.11'	W1-14	S 81°17'34" E	42.66'	W1-22	S 78°22'13" E	34.27'
W1-7	S 67°30'53" E	73.07'	W1-15	N 66°11'05" E	24.90'			
W1-8	S 82°34'01" E	53.37'	W1-16	S 86°29'24" E	49.10'			



**STATE ROAD 64
(MANATEE AVENUE WEST)**
(R/W WIDTH VARIES,
SECTION #1315-175 & 13150-2524,
DATED 4/1/09)

SITE BENCHMARK #509
TOP OF PK NAIL & DISK
WITH "BM" LB #7143
ELEV = 4.51 (NAVD '88)
N:1150571.19
E:427983.27

SITE BENCHMARK #508
TOP OF PK NAIL & DISK
WITH "BM" LB #7143
ELEV = 5.36 (NAVD '88)
N:1150573.10
E:427983.64

STW#
TOP ELEV=5.66
S INV ELEV(12"x18" RCP)=3.19
N INV ELEV(=NO ACCESS)
BOTTOM ELEV=2.90

CURB INLET
TOP ELEV=5.36
N INV ELEV(=NO ACCESS)
BOTTOM ELEV(=NO ACCESS)

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Field Crew:	P.H.	Drawn by:	D.T./J.F.F.	Checked by:	R.L.R.	Approved by:	P.J.K.	Date:	5/6/2020	Scale:	1"=30'	Job No.:	M1312	File:	M1312.dwg	No.	Date	© 2020	By	Revision
Survey Prepared By:																				
Survey Prepared By CPH, Inc. 600 West Fulton St. Sanford, FL 32771 Ph: 407.322.6841 Licenses: Eng. C.O.A. No. 3215 Survey L.B. No. 7143 Arch. Lic. No. AA2609926 Landscape Lic. No. LC000298																				

TOPOGRAPHIC SURVEY
MANATEE COUNTY
KINGFISH BOATRAMP
SECTION 28-TOWNSHIP 3N SOUTH-RANGE 16 EAST
MANATEE COUNTY, FLORIDA

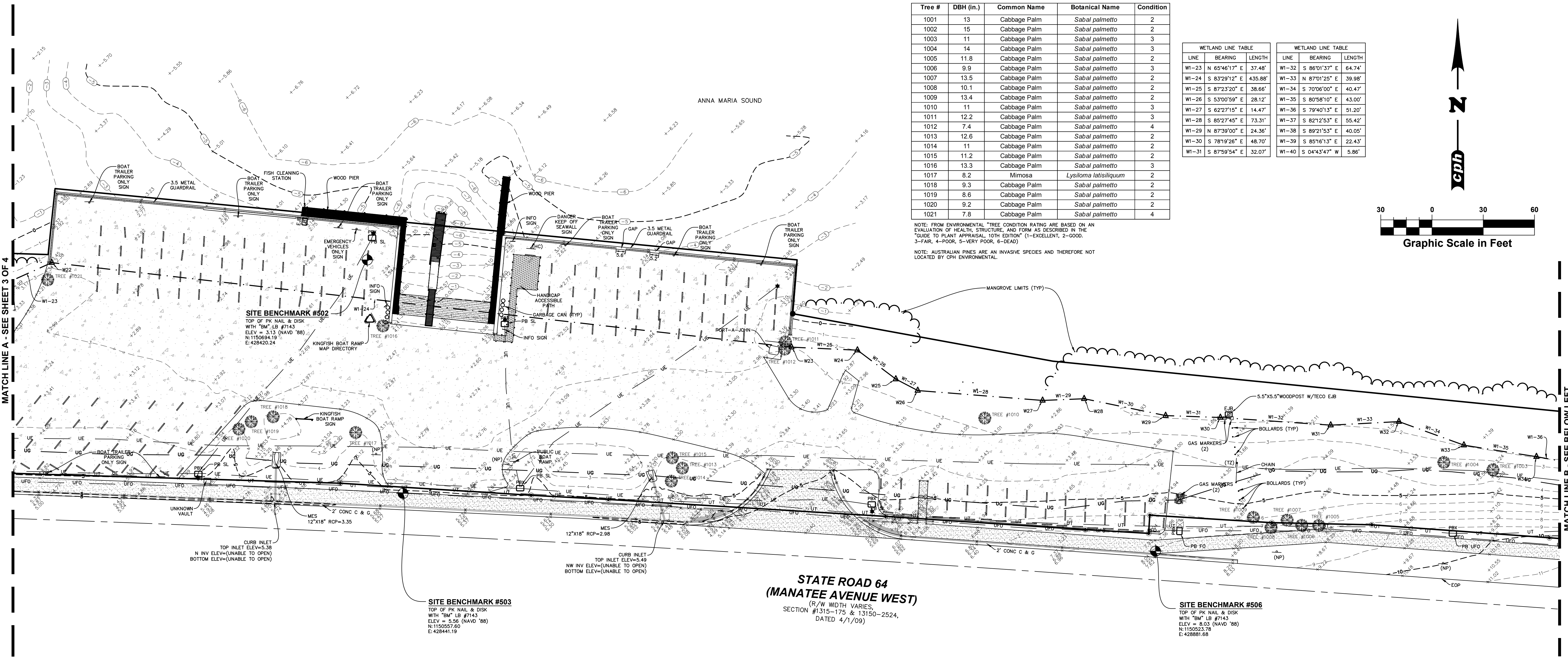
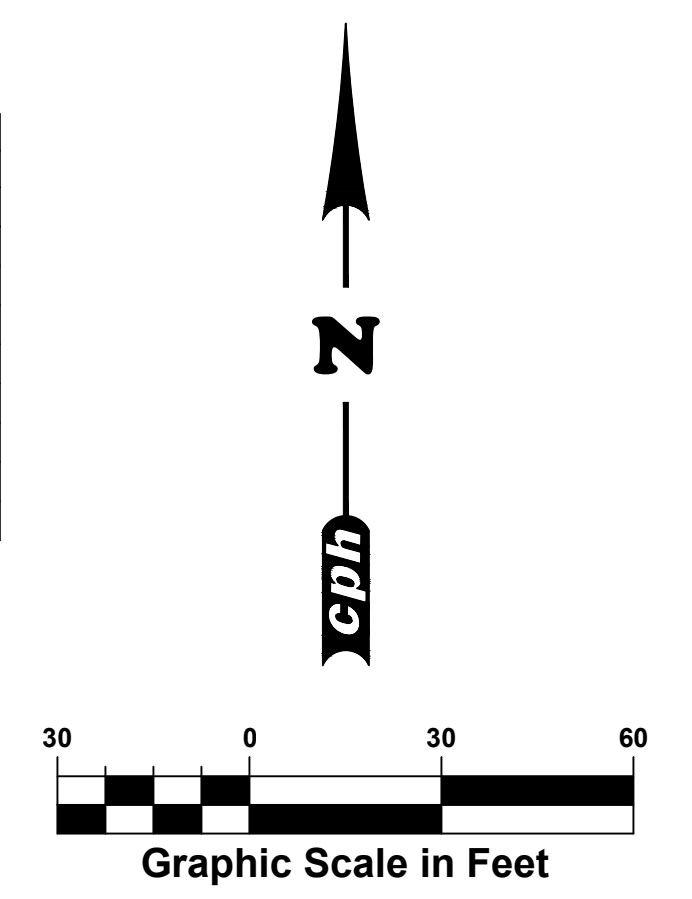
No.		Date	Revision	By

Tree #	DBH (in.)	Common Name	Botanical Name	Condition
1001	13	Cabbage Palm	<i>Sabal palmetto</i>	2
1002	15	Cabbage Palm	<i>Sabal palmetto</i>	2
1003	11	Cabbage Palm	<i>Sabal palmetto</i>	3
1004	14	Cabbage Palm	<i>Sabal palmetto</i>	3
1005	11.8	Cabbage Palm	<i>Sabal palmetto</i>	2
1006	9.9	Cabbage Palm	<i>Sabal palmetto</i>	3
1007	13.5	Cabbage Palm	<i>Sabal palmetto</i>	2
1008	10.1	Cabbage Palm	<i>Sabal palmetto</i>	2
1009	13.4	Cabbage Palm	<i>Sabal palmetto</i>	2
1010	11	Cabbage Palm	<i>Sabal palmetto</i>	3
1011	12.2	Cabbage Palm	<i>Sabal palmetto</i>	3
1012	7.4	Cabbage Palm	<i>Sabal palmetto</i>	4
1013	12.6	Cabbage Palm	<i>Sabal palmetto</i>	2
1014	11	Cabbage Palm	<i>Sabal palmetto</i>	2
1015	11.2	Cabbage Palm	<i>Sabal palmetto</i>	2
1016	13.3	Cabbage Palm	<i>Sabal palmetto</i>	3
1017	8.2	Mimosa	<i>Lysiloma latissiliquum</i>	2
1018	9.3	Cabbage Palm	<i>Sabal palmetto</i>	2
1019	8.6	Cabbage Palm	<i>Sabal palmetto</i>	2
1020	9.2	Cabbage Palm	<i>Sabal palmetto</i>	2
1021	7.8	Cabbage Palm	<i>Sabal palmetto</i>	4

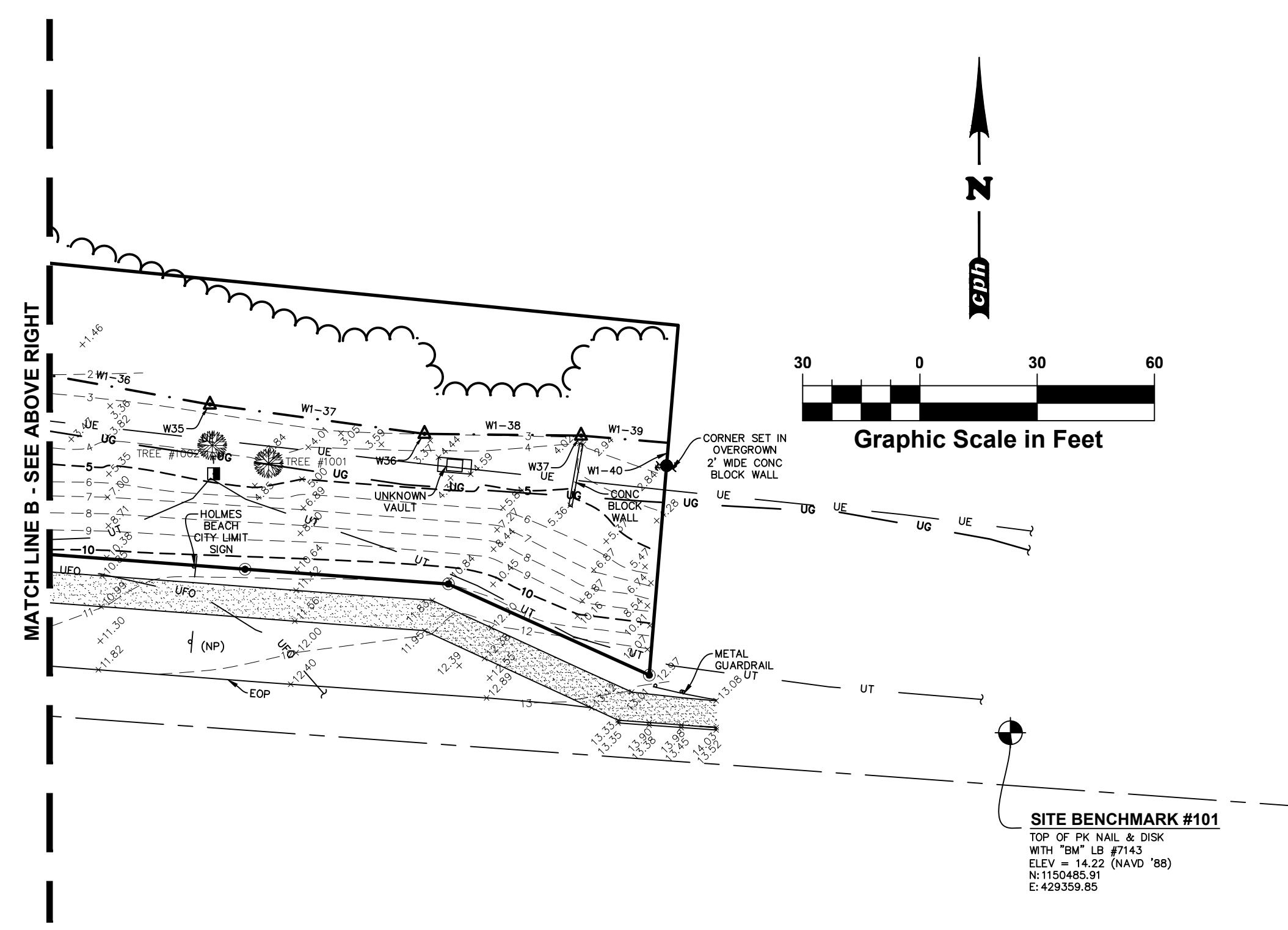
WETLAND LINE TABLE			WETLAND LINE TABLE		
LINE	BEARING	LENGTH	LINE	BEARING	LENGTH
W1-23	N 65°46'17" E	37.48'	W1-32	S 86°01'37" E	64.74'
W1-24	S 83°29'12" E	435.88'	W1-33	N 87°01'25" E	39.98'
W1-25	S 87°23'20" E	38.66'	W1-34	S 70°06'00" E	40.47'
W1-26	S 53°00'59" E	28.12'	W1-35	S 80°58'10" E	43.00'
W1-27	S 62°27'15" E	14.47'	W1-36	S 79°40'13" E	51.20'
W1-28	S 85°27'45" E	73.31'	W1-37	S 82°12'53" E	55.42'
W1-29	N 87°39'00" E	24.36'	W1-38	S 89°21'53" E	40.05'
W1-30	S 78°19'26" E	48.70'	W1-39	S 85°16'13" E	22.43'
W1-31	S 87°59'54" E	32.07'	W1-40	S 04°43'47" W	5.86'

NOTE: FROM ENVIRONMENTAL "TREE CONDITION RATINGS ARE BASED ON AN EVALUATION OF HEALTH, STRUCTURE, AND FORM AS DESCRIBED IN THE "GUIDE TO PLANT APPRAISAL, 10TH EDITION" (1-EXCELLENT, 2-GOOD, 3-FAIR, 4-POOR, 5-VERY POOR, 6-DEAD)

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**STATE ROAD 64
(MANATEE AVENUE WEST)**
(R/W WIDTH VARIES,
SECTION #1315-175 & 13150-2524,
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MANATEE COUNTY
KINGFISH BOATRAMP
SECTION 28-TOWNSHIP 3S SOUTH-RANGE 16 EAST
MANATEE COUNTY, FLORIDA

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- 33. TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA $L = SDP^1/4/8000$ WHERE L = MAXIMUM PERMISSIBLE LEAKAGE RATE, IN GALLONS PER HOUR, THROUGHOUT THE ENTIRE LENGTH OF LINE BEING TESTED; S = LENGTH OF LINE TESTED (IN FEET); D = NOMINAL INTERNAL DIAMETER (IN INCHES) OF THE PIPE, AND P = THE SQUARE ROOT OF THE ACTUAL PRESSURE IN PSIG ON ALL JOINTS IN THE TESTED PORTION OF THE LINE. THIS ACTUAL PRESSURE SHALL BE DETERMINED BY FINDING THE DIFFERENCE BETWEEN THE AVERAGE ELEVATION OF ALL TESTED PIPE JOINTS AND THE ELEVATION OF THE PRESSURE GAUGE AND ADDING THE DIFFERENCE IN ELEVATION HEAD TO THE AUTHORIZED TEST PRESSURE.
- 34. ALL APPARENT LEAKS DISCOVERED WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER SHALL BE LOCATED AND REPAIRED BY CONTRACTOR, REGARDLESS OF THE TOTAL LINE LEAKAGE RATE.
- 35. PRIOR TO DISINFECTION, CONDUCT FULL DIAMETER FLUSHING OF PIPELINE IN SECTIONS IN ORDER TO REMOVE ANY SOLIDS OR CONTAMINATED MATERIAL THAT MAY HAVE BECOME LODGED IN THE PIPE.
- 36. OBTAIN A MINIMUM FLUSHING VELOCITY OF 2.5 FEET PER SECOND PER AWWA C651.
- 37. ALL TAPS REQUIRED FOR FLUSHING AND THE TEMPORARY OR PERMANENT RELEASE OF AIR AS NEEDED FOR FLUSHING SHALL BE PROVIDED BY THE CONTRACTOR.
- 38. DISINFECT ALL POTABLE WATER LINES, FIRE LINES, VALVES, FITTINGS, HYDRANTS, THE WATER MAIN DISINFECTION AND BACTERIOLOGICAL SAMPLING AND METHODS OF DISINFECTION FOR ALL WATER CONTAINMENT DEVICES AND PIPING SYSTEMS SHALL CONFORM TO AWWA C651. THE DISCHARGE LOCATIONS FOR THE CHLORINATED WATER SHALL BE APPROVED BY THE OWNER. NEUTRALIZE THE CHLORINE RESIDUAL BY MEANS OF A REDUCING AGENT IN ACCORDANCE WITH AWWA C651.
- 39. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH AUTHORITY. IF ANY REQUIREMENTS OF THIS SECTION ARE IN CONFLICT WITH REQUIREMENTS OF THE AUTHORITY FOR DISINFECTION, THOSE OF THE AUTHORITY SHALL GOVERN. ALL BACTERIOLOGICAL TESTING SHALL BE PERFORMED BY A STATE CERTIFIED LABORATORY CONTRACTED BY THE CONTRACTOR. PROPER CHAIN OF CUSTODY PROCEDURES MUST BE FOLLOWED AND SAMPLES SHALL ONLY BE COLLECTED BY CERTIFIED LABORATORY PERSONNEL. COPIES OF ALL TESTING RESULTS AND ALL RELATED CORRESPONDENCE FROM THE TESTING LAB SHALL BE SUBMITTED TO THE OWNER, UTILITY, AND ENGINEER.

SANITARY SEWER SYSTEMS

- 1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE SEWER SYSTEM SHOWN ON THESE PLANS IS MANATEE COUNTY. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF MANATEE COUNTY.
- 2. INSTALL ALL SEWER MAINS AT A MINIMUM 36 INCHES OF COVER.
- 3. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3212 USING RUBBER GASKETS CONFORMING TO ASTM F477.
- 4. FITTINGS SHALL CONFORM TO THE SAME REQUIREMENTS AS THE PIPE. PROVIDE ADAPTERS AS REQUIRED TO JOIN PVC PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS. SOLVENT CEMENT SHALL BE AS RECOMMENDED BY THE PIPE MANUFACTURER.
- 5. SEWER PIPE SHALL BE COLOR CODED GREEN, STENCILED "SEWER LINE" (2" LETTERING ON TWO SIDES OF THE PIPE IN AT LEAST THREE AREAS PER PIPE SECTION).
- 6. INSTALL ADHESIVE IDENTIFICATION TAPE ALONG PIPELINE. TAPE SHALL BE MINIMUM THICKNESS 4 MILS, WIDTH 6 INCHES, LETTER SIZE 1 INCH. TAPE COLOR AND LETTERING SHALL BE "SEWER LINE"; BLACK PRINTING ON GREEN BACKGROUND. PLACE TAPE AS FOLLOWS: 2" - 8" PIPE - CENTER ALONG TOP HALF OF PIPE, 10" - 18" PIPE - PLACE ALONG BOTH SIDES OF THE TOP HALF OF PIPE, 20" PIPE AND LARGER - PLACE ON BOTH SIDES OF TOP HALF OF PIPE WITH A THIRD STRIP CENTERED ALONG TOP HALF OF PIPE.
- 7. INSTALL WARNING TAPE ALONG ALL SEWER PIPELINES. TAPE SHALL BE 6-INCH WIDE VINYL CONTINUOUS TAPE, COLORED GREEN WITH BLACK LETTERING CODED AND WORDS "CAUTION: SEWER BURIED BELOW". INSTALL ALONG PIPELINE, 2 FEET ABOVE PIPE, MINIMUM OF 1 FOOT BELOW GRADE.
- 8. CONNECTIONS TO EXISTING SEWER SHALL BE CONDUCTED IN SUCH A MANNER THAT THE EXISTING SEWER REMAINS IN OPERATION. PROVIDE BY PASS PUMPING OF EXISTING FLOWS OR COLLECT AND LEGALLY DISPOSE OF EXISTING SEWER FLOW AS NEEDED TO ACCOMMODATE CONSTRUCTION WHILE KEEPING EXISTING SEWER IN SERVICE.
- 9. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND MANHOLES. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY WORK IS TO BE INSPECTED OR TESTED.
- 10. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING ORDER WITH NO NOTICEABLE LEAKS.
- 11. ALL SERVICE LATERALS SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE.
- 12. PROVIDE LIGHT SOURCE AND MIRRORS FOR LAMPING OF SEWER. ANY SEWER IN WHICH THE DIRECT LIGHT OF A LAMP CANNOT BE VIEWED IN EITHER DIRECTION, FULL CIRCLE, BETWEEN ADJACENT MANHOLES SHALL BE CONSIDERED UNSATISFACTORY. UNLESS THE LINE IS DESIGNED WITH HORIZONTAL DEFLECTIONS, AND SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION.
- 13. CONDUCT LOW PRESSURE AIR TESTING (4.0 PSI INITIAL PRESSURE) OF INSTALLED SEWER PIPING IN ACCORDANCE WITH ASTM F1417. MAXIMUM ALLOWABLE LEAKAGE IS 0.0015 CUBIC FEET PER SQUARE FOOT INTERNAL SURFACE AREA BEING TESTED. ALLOWABLE AIR PRESSURE DROP DURING THE TEST IS 0.5 PSIG. MINIMUM REQUIRED TEST TIME (DURATION) IS: A) 4" PIPE = 1 MIN 53 SEC, B) 6" PIPE = 2 MIN 50 SEC, OR 0.427 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; C) 8" PIPE = 3 MIN 47 SEC, OR 0.760 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; D) 10" PIPE = 4 MIN 43 SEC, OR 1.167 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; E) 12" PIPE = 5 MIN 40 SEC, OR 1.709 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER.
- 14. CONDUCT DEFLECTION TESTING OF PIPELINE AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. MAXIMUM ALLOWABLE PIPE DEFLECTION IS 5%. MEASURE DEFLECTION BY MANUALLY PULLING A MANDREL THROUGH THE PIPE. THE MINIMUM MANDREL OUTER DIAMETER SHALL BE IN ACCORDANCE WITH THE FOLLOWING: 6" SEWER = 5.45" MANDREL, 8" SEWER = 7.28" MANDREL, 10" SEWER = 9.08" MANDREL, 12" SEWER = 10.79" MANDREL, 15" SEWER = 13.20" MANDREL, 18" SEWER = 16.15" MANDREL, 21" SEWER = 19.00" MANDREL, 24" SEWER = 21.36" MANDREL, 27" SEWER = 24.06" MANDREL.
- 15. DEFLECTION TESTING IS CONSIDERED SATISFACTORY IF THE MANDREL CAN BE PULLED BY HAND THROUGH THE PIPE BEING TESTED. IF THE MANDREL CANNOT BE PULLED THROUGH THE PIPE, REPLACE OR CORRECT THE PIPE AND RETEST UNTIL TESTING IS SATISFACTORY. ANY PIPE REMOVED OR CONNECTED DUE TO FAILING DEFLECTION TESTING SHALL ALL BE RE-TESTED FOR LEAKAGE.

PAVING, SIDEWALKS, AND CURBING

- 1. MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY AND PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- 2. ROADWAY PAVING, BASE, AND SUBGRADE THICKNESSES SHALL BE IN ACCORDANCE WITH DETAILS ON THESE DRAWINGS.
- 3. SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND SHALL BE IN ACCORDANCE WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, LATEST EDITION.
- 4. CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. ALL CURBS SHALL HAVE SAW CUT CONSTRUCTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.
- 5. FIELD COMPACTION DENSITY, STABILITY, AND THICKNESS TESTING FREQUENCIES OF SUB-BASE, BASE, AND ASPHALT SHALL BE TESTED ONCE EVERY 300 LINEAR FEET OF PAVING PER 24-FT WIDE STRIP, STAGGERED LEFT, CENTER AND RIGHT OF CENTERLINE. WHERE LESS THAN 300 LINEAR FEET OF SUB-BASE, BASE, AND ASPHALT IS PLACED IN ONE DAY, PROVIDE MIN. OF ONE TEST FOR EACH PER DAY'S CONSTRUCTION AT A LOCATION DESIGNATED BY THE ENGINEER. ASPHALT EXTRACTION GRADATION SHALL BE TESTED FROM GRAB SAMPLES COLLECTED ONCE EVERY 1800 SQUARE YARDS OF ASPHALT DELIVERED TO THE SITE (OR A MINIMUM OF ONCE PER DAY).

PRECAST STRUCTURES AND APPURTENANCES

- 1. ALL MANHOLES SHALL BE PRECAST CONSTRUCTION. THE MINIMUM SIZE DIAMETER OF MANHOLES SHALL BE 48" FOR SEWER LINES 21" IN DIAMETER OR LESS. INTEGRALLY CAST STEPS WITHIN PRECAST STRUCTURES ARE NOT ALLOWED.
- 2. BASES SHALL BE ONE-PIECE PRECAST BASE SECTIONS CONSISTING OF INTEGRALLY CAST SLAB, BOTTOM RING SECTION AND CONCRETE FLOW CHANNELS. BASE SECTIONS SHALL HAVE INTEGRAL INVERTS WITH GASKETS TO MATCH THE PIPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL INVERT ANGLES. PROVIDE OUTLET STUBS WITH JOINTS TO MATCH THE PIPE.
- 3. RISERS SHALL BE PRECAST REINFORCED CONCRETE PER ASTM C478, MANUFACTURED USING SULFATE RESISTANT CEMENT (ASTM C150, TYPE II). RISERS SHALL BE 48-INCH DIAMETER UNLESS OTHERWISE INDICATED AND SHALL HAVE A MINIMUM WALL THICKNESS OF 5 INCHES.
- 4. GASKETS FOR SEATING PRECAST SECTIONS SHALL BE COLD ADHESIVE PREFORMED PLASTIC GASKETS CONFORMING TO FOOT SPECIFICATION 942-2, UNLESS OTHERWISE INDICATED.
- 5. UNLESS OTHERWISE INDICATED, CONE TOP SECTIONS SHALL BE PRECAST, ECCENTRIC TYPE WITH 24-INCH DIAMETER TOP OPENING CONFORMING TO ASTM C478. PROVIDE 8-INCH MINIMUM THICKNESS FLAT SLAB TOPS WITH ECCENTRIC 24 INCH DIAMETER OPENING, UNLESS OTHERWISE INDICATED.
- 6. PROVIDE A FLEXIBLE WATERTIGHT SEAL OF THE PIPE TO THE MANHOLE. CONNECTION OF CONCRETE PIPE TO THE MANHOLE SHALL BE MADE WITH NON-SHRINK METALLIC GROUT. CONNECTION OF DUCTILE IRON OR PVC PIPE TO THE MANHOLE SHALL PROVIDE A WATERTIGHT CONNECTION PER ASTM C923. WHERE CONNECTORS ARE USED, THEY SHALL BE INSTALLED IN THE MANHOLE WALL BY ACTIVATING THE EXPANDING MECHANISM IN STRICT ACCORDANCE WITH THE RECOMMENDATION OF THE CONNECTOR MANUFACTURER. THE USE OF ADHESIVES OR LUBRICANTS FOR INSTALLATION OF RUBBER CONNECTORS IS PROHIBITED.
- 7. FRAMES AND COVERS SHALL BE GREY IRON PER ASTM A48, CLASS 30B AND SHALL BE U.S. FOUNDRY TYPE 227AS, TRAFFIC BEARING (ASHTO H-20 LOADING), UNLESS OTHERWISE NOTED IN THE DRAWINGS. CASTINGS SHALL BE SMOOTH, CLEAN FREE FROM BLISTERS, BLOWHOLES, AND SHRINKAGE. RAISED LETTERING ON COVERS SHALL BE "STORM", "SEWER", OR AS DETAILED ON THE DRAWINGS.
- 8. PROVIDE CAST IRON INLETS, FRAMES, AND GRATES IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. ALL FRAMES AND INLET GRATES SHALL BE PRODUCTS OF U.S. FOUNDRY & MANUFACTURING CORPORATION, OR EQUAL.
- 9. ALL INLET GRATES SHALL BE SECURED BY CHAIN AND EYEBOLT TO THE TOP OF THE STRUCTURE.
- 10. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISHED GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASSED AREAS SHALL BE 4" ABOVE FINISHED GRADE (UNLESS NOTED OTHERWISE).
- 11. ALL MANHOLES AND CLEAN OUTS CONSTRUCTED WITHIN PAVED AREAS SHALL BE INSTALLED WITH TRAFFIC BEARING RINGS AND COVERS.
- 12. MANHOLE COATINGS AND FINISHES SHALL BE:
 - A. SANITARY SEWER MANHOLE INTERIOR - BITUMINOUS EPOXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.
 - B. INTERIOR OF MANHOLES WHICH RECEIVE FORCE MAIN DISCHARGE - INTEGRALLY ATTACHED INTERIOR LINER, FULL HEIGHT, FIBERGLASS LINER. LINER THICKNESS TO BE IN ACCORDANCE WITH THE DRAWINGS.
 - C. EXTERIOR - BITUMINOUS EPOXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.

STORM SEWER SYSTEMS

- 1. REINFORCED CONCRETE PIPE (RCP) JOINTS SHALL COMPLY WITH ASTM C443 AND FDOT SPECIFICATION SECTION 430, AND RUBBER GASKETS SHALL COMPLY WITH FDOT SPECIFICATION SECTION 942. MINIMUM COVER OVER THE PIPE, INCLUDING COVER OVER THE BELL OF THE PIPE WHERE APPLICABLE, SHALL BE 30 INCHES.
- 2. RCP PIPE SHALL NOT BE SHIPPED FROM MANUFACTURER UNTIL THE COMPRESSIVE STRENGTH OF THE PIPE HAS REACHED 4000 PSI AND A MINIMUM OF 5 DAYS HAVE PASSES SINCE THE MANUFACTURING OR REPAIR OF THE PIPE HAS BEEN COMPLETED.
- 3. UNDERDRAIN PIPE SHALL BE PERFORATED POLYVINYL CHLORIDE PIPE IN ACCORDANCE WITH ASTM F758. FILTER FABRIC UNDERDRAIN SOCK SHALL BE TYPE D-3 IN ACCORDANCE WITH FDOT INDEX NO. 199.
- 4. ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC. FILTER FABRIC SHALL BE IN ACCORDANCE WITH FDOT INDEX NO. 199, TYPE D-3, A.O.S. 70-100. INSTALL IN ACCORDANCE WITH FDOT INDEX NO. 280. PROVIDE MINIMUM 2" OVERLAP.
- 5. INSTALL POLYETHYLENE PIPE IN ACCORDANCE WITH ASTM D2321. BACKFILL AND COMPACT EVENLY ON EACH SIDE TO PREVENT DISPLACEMENT. MINIMUM COVER OVER POLYETHYLENE PIPE SHALL BE AS FOLLOWS: A) PIPE UNDER FLEXIBLE PAVEMENT, RIGID PAVEMENT, OR UNPAVED AREAS WHERE BEDDING IS SUITABLE SOILS AS DEFINED IN THE GENERAL NOTES: MINIMUM COVER SHALL BE 36 INCHES OR ONE PIPE DIAMETER, WHICHEVER IS GREATER; B) PIPE UNDER FLEXIBLE PAVEMENT, RIGID PAVEMENT, OR UNPAVED AREAS WHERE BEDDING IS MANUFACTURED AGGREGATES CLASS 1A OR 1B AS DEFINED IN ASTM D2321: MINIMUM COVER SHALL BE 30 INCHES OR ONE PIPE DIAMETER, WHICHEVER IS GREATER.
- 6. INSTALL UNDERDRAINS IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 440. INSTALL CLEANOUTS AS SHOWN ON THE DRAWINGS.
- 7. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND STRUCTURES.

SIGNS AND PAVEMENT MARKINGS

- 1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST IMPLEMENTED EDITION OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
- 2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH RAISED PAVEMENT MARKERS (TYPE 911 - 4" x 4"). RAISED PAVEMENT MARKERS ARE TO BE INSTALLED IN ACCORDANCE WITH THESE PLANS AND FDOT INDEX NO. 17352.
- 3. PARKING STALL PAVEMENT MARKINGS SHALL BE PAINTED. PAINT SHALL MEET THE REQUIREMENTS OF FDOT SPECIFICATION SECTION 971, NON-REFLECTIVE WHITE TRAFFIC PAINT, TWO COATS.
- 4. ALL ROADWAY TRAFFIC SIGNS SHALL BE MANUFACTURED USING HIGH INTENSITY RETROREFLECTIVE MATERIALS. THE BACK OF ALL FINISHED PANELS SHALL BE STENCILED WITH THE DATE OF FABRICATION, THE FABRICATOR'S INITIALS, AND THE NAME OF THE SHEETING IN THREE-INCH LETTERS.
- 5. INTERNAL SITE TRAFFIC SIGNS ARE NOT REQUIRED TO BE RETROREFLECTIVE.
- 6. THE CONTRACTOR SHALL VERIFY THE REQUIRED LENGTH OF THE SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
- 7. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SIGNS, BASES, ANCHOR BOLTS, CONDUITS, WIRING, ETC.
- 8. ALL PAVEMENT MARKINGS REQUIRE LAYOUT APPROVAL IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
- 9. PRIOR TO FINAL PAVEMENT MARKING INSTALLATION, A TWO WEEK CURE TIME OF THE ASPHALT IS REQUIRED.

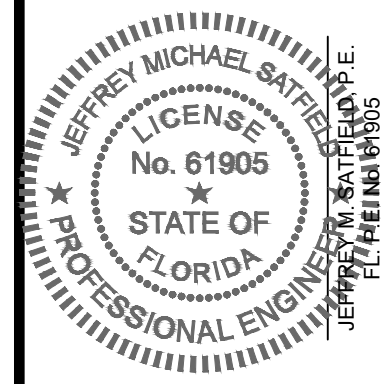
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State of Florida Licenses:
Engineer No. 3219
Surveyor No. LB7143
Architect No. AA2600926
Landscape No. LC000298



No.	Date	Revision

Designed: R. Smith

Drawn: R. Smith

Checked: J. Satfield

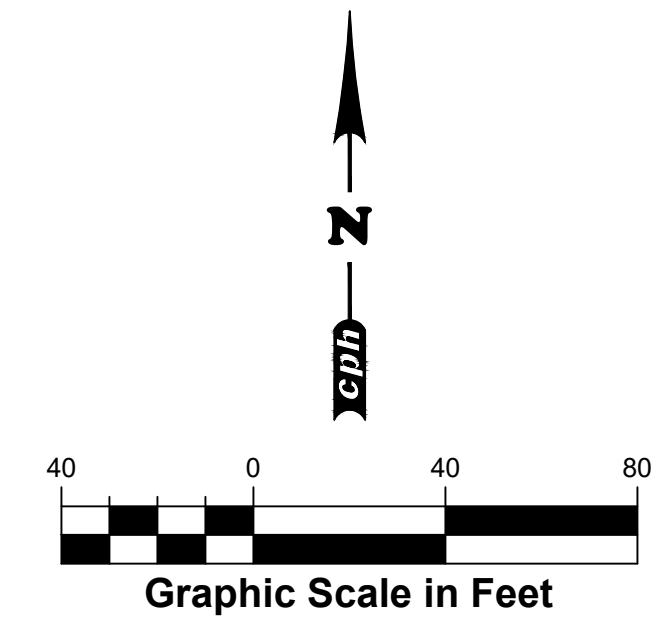
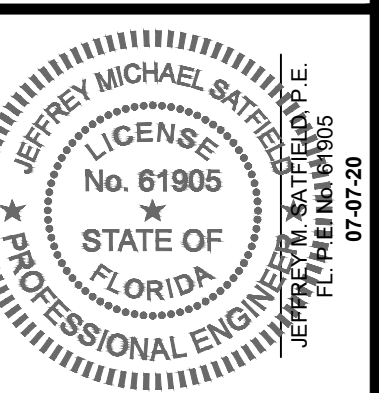
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GENERAL NOTES
KINGFISH BOAT RAMP
MANATEE COUNTY, FLORIDA

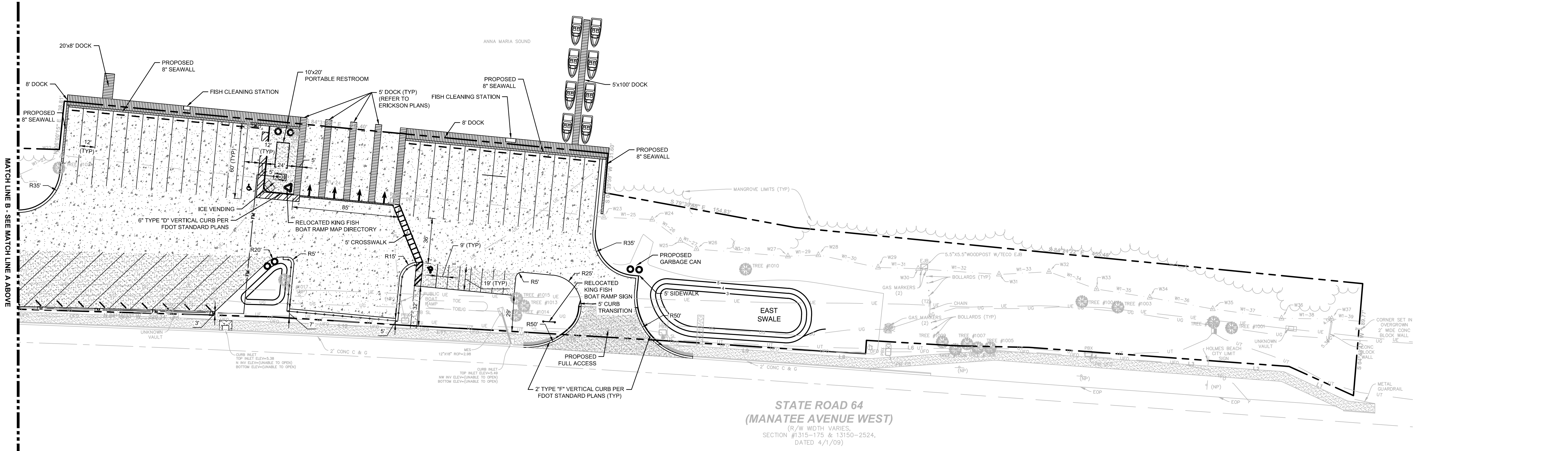
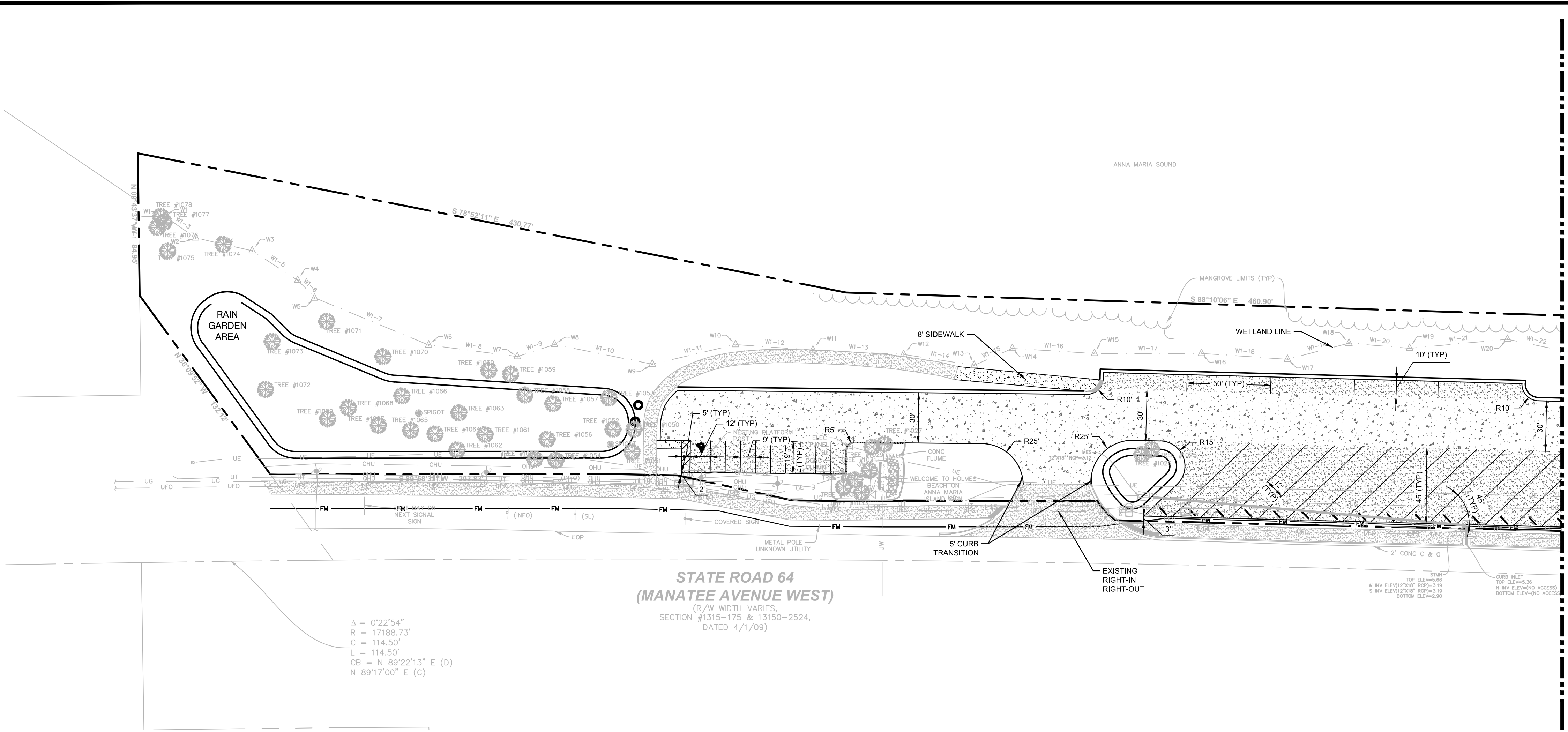
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Sheet No. **GO.3**



- LEGEND**
- PROPERTY LINE
 - WETLAND SETBACK LINE
 - WOODEN DOCK
 - PROPOSED PICNIC & STORMWATER AREA
 - HEAVY DUTY CONCRETE
 - LIGHT DUTY CONCRETE
 - PARKING SPACE COUNT
 - GARBAGE CAN
 - MAP DIRECTORY & INFORMATIONAL KIOSK

NOTE:
 ITEMS SHOWN SCREENED REPRESENT EXISTING CONDITIONS.
 ITEMS SHOWN BOLD REPRESENT PROPOSED CONDITIONS.



No.	Date	Revision

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 Drawn: R. Smith
 Checked: J. Sattfield
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SITE DIMENSION PLAN
KINGFISH BOAT RAMP
 MANATEE COUNTY, FLORIDA

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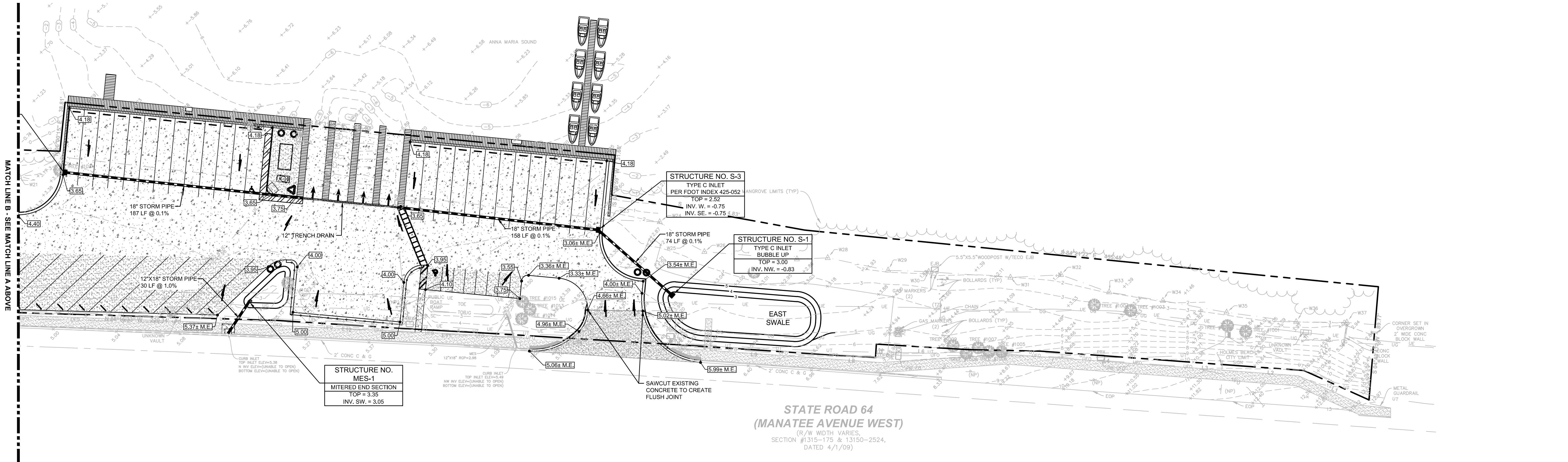
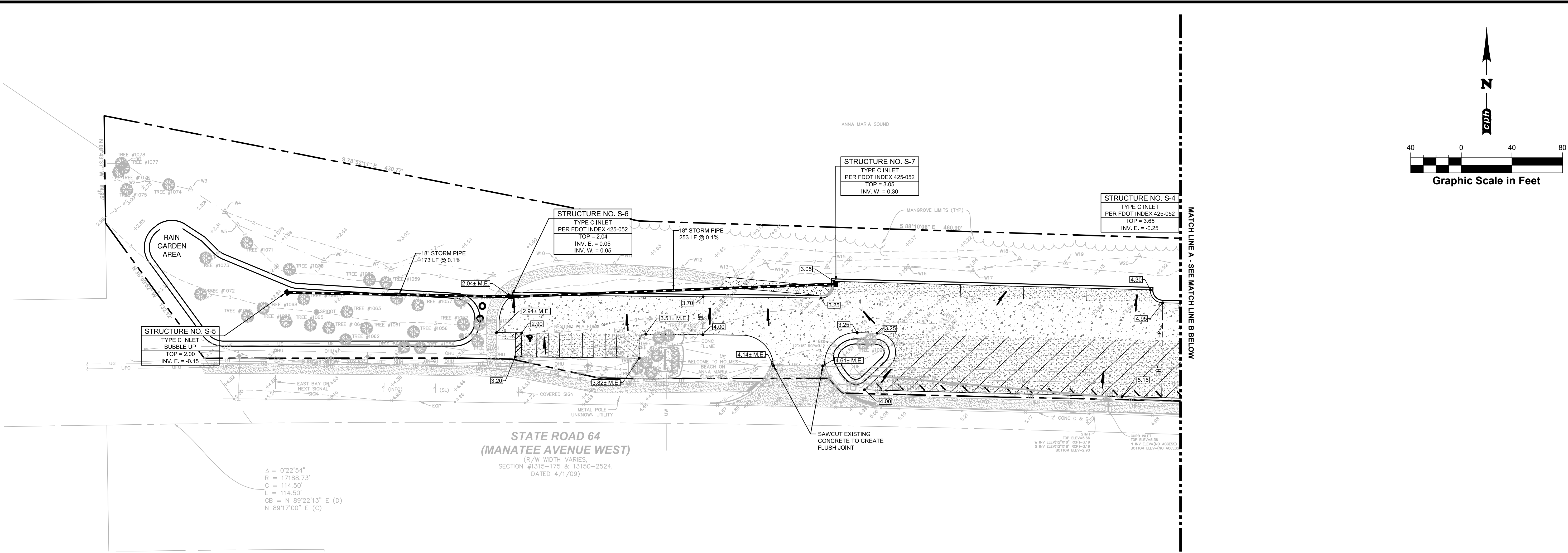
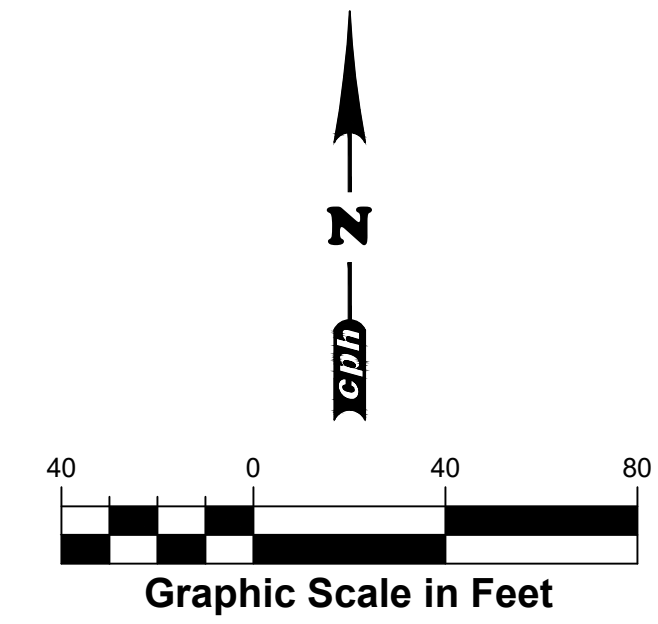
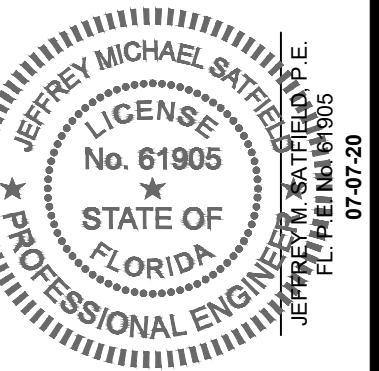
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Sheet No.
C1.3

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GRADING AND STORM DRAINAGE PLAN

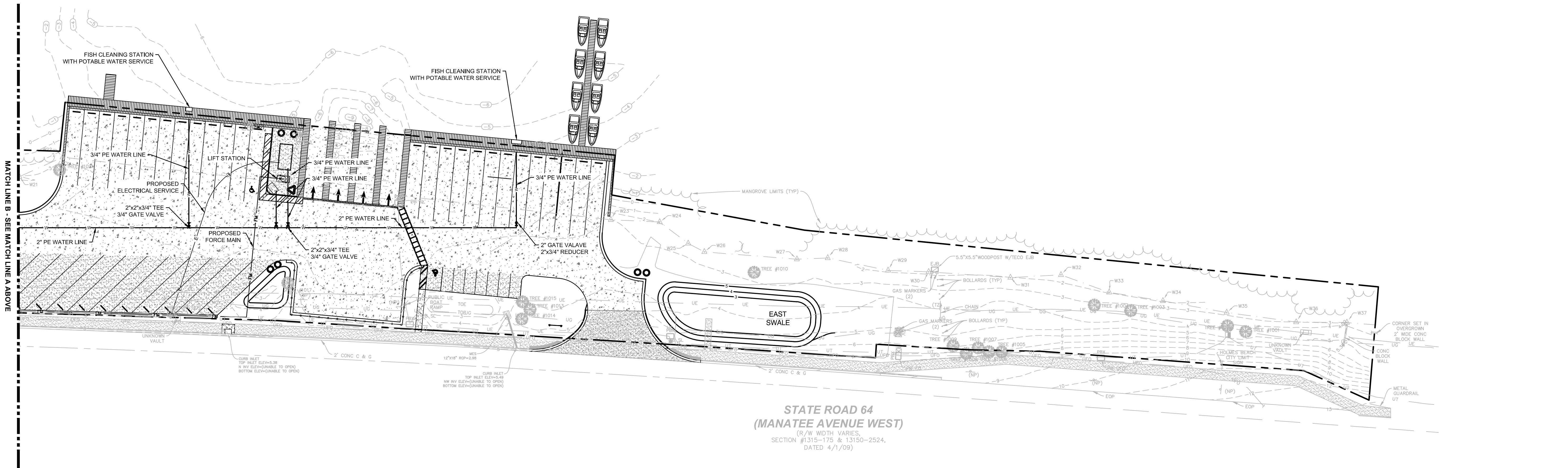
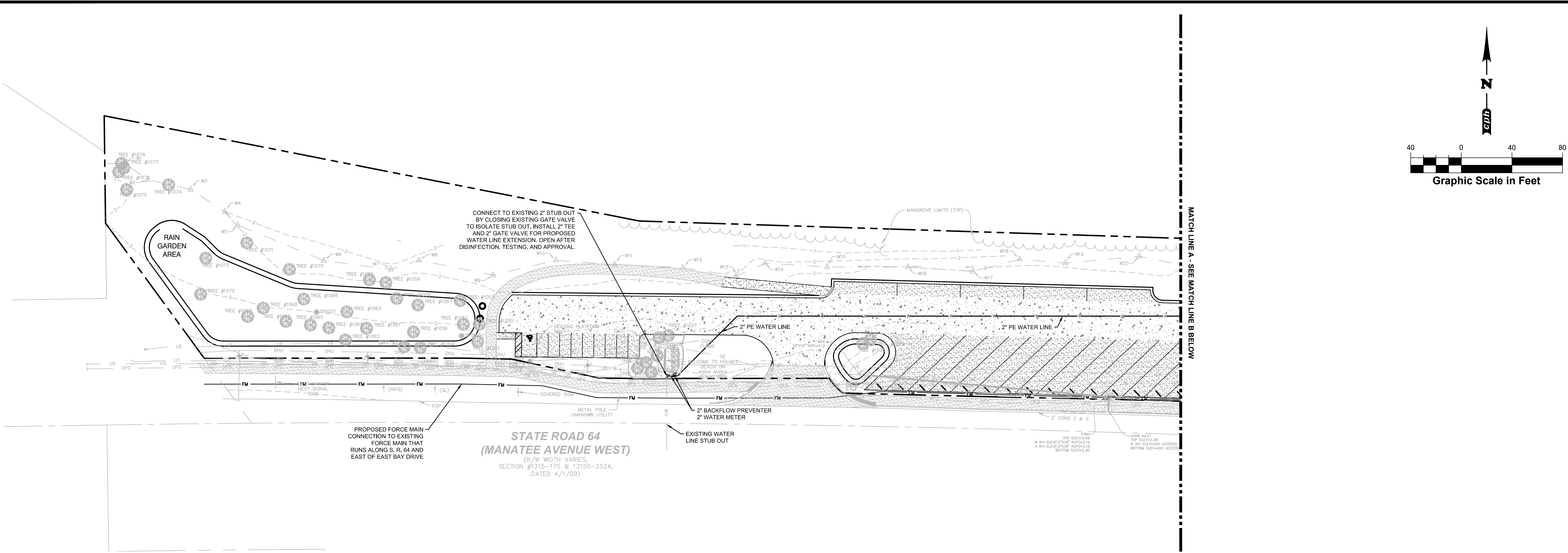
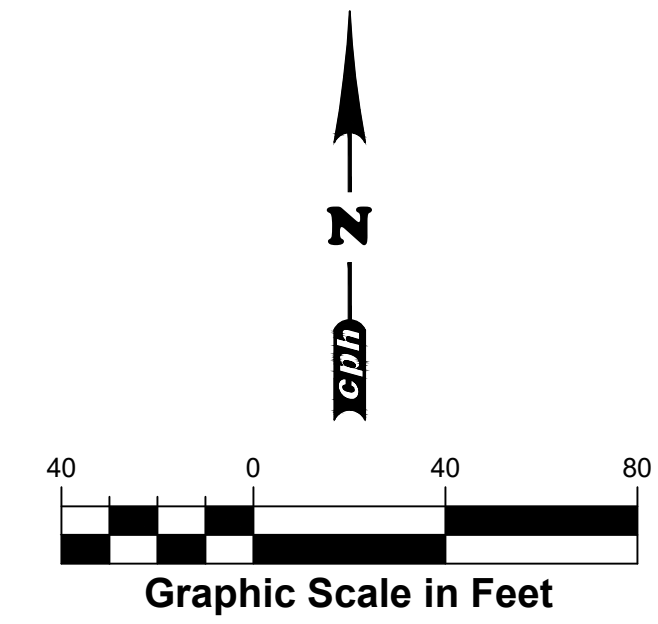
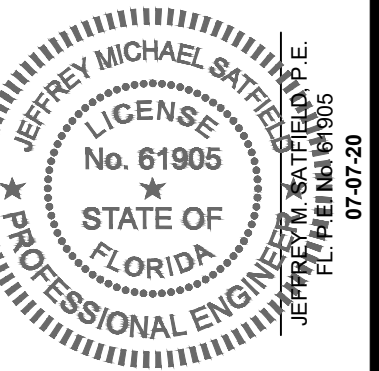
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COMPOSITE UTILITY PLAN
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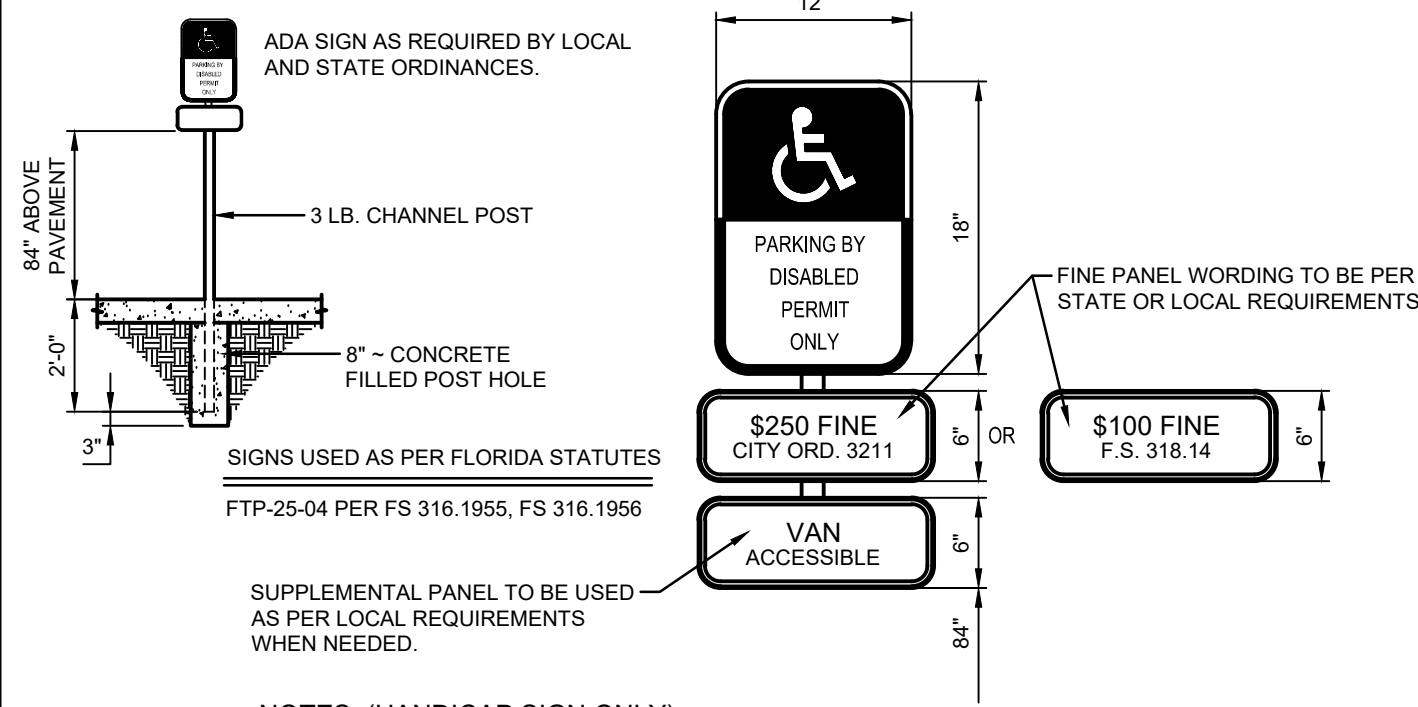
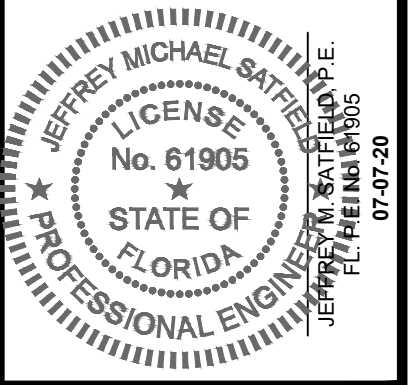
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 Sheet No.
C1.5

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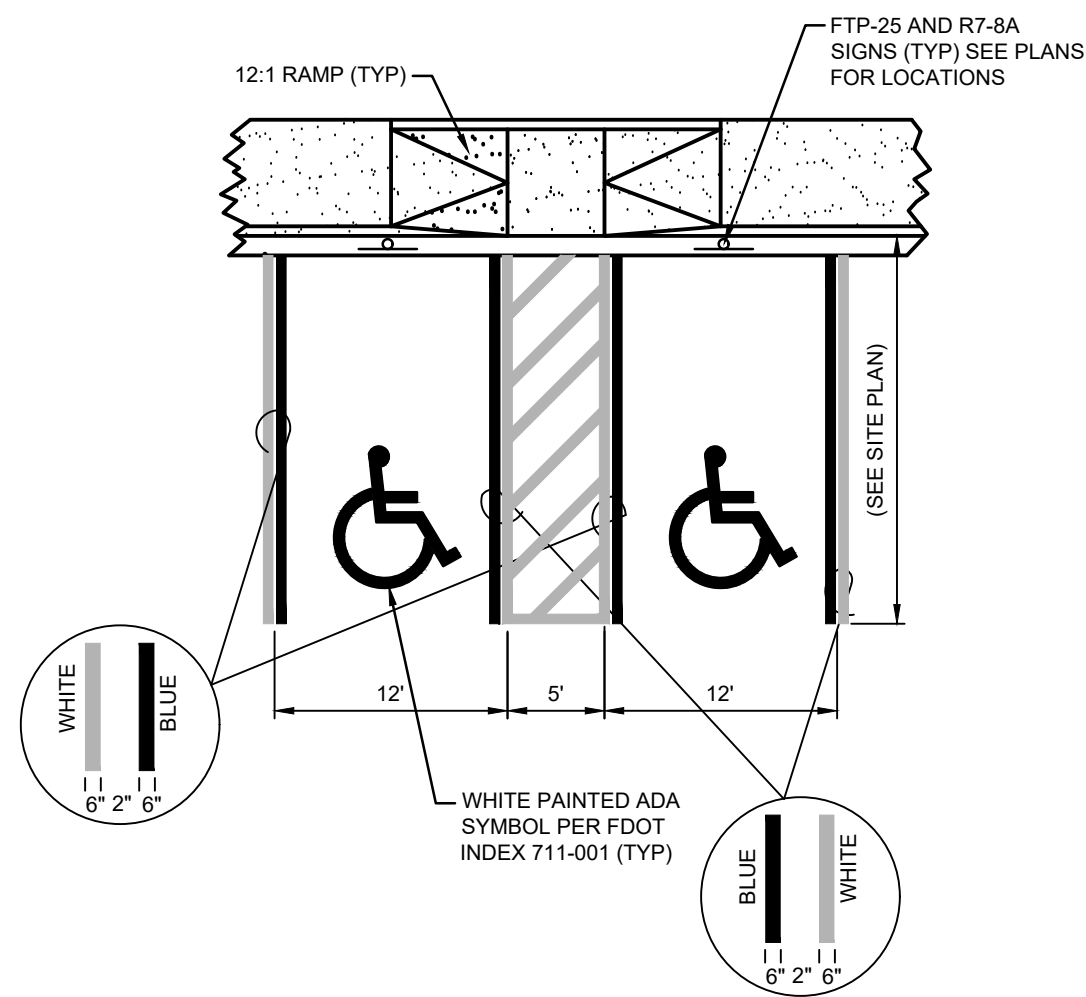
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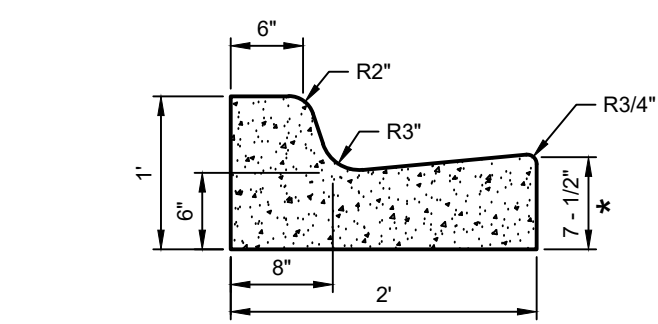


- NOTES: (HANDICAP SIGN ONLY)**
- THE SIGN'S FACE SHALL BE OF AN ENGINEERING GRADE REFLECTORIZED MATERIAL.
 - ALL LETTERS ARE 1 INCH SERIES "C" PER THE MUTCD.
 - THE TOP PORTION OF THE SIGN SHALL HAVE A BLUE BACKGROUND WITH A WHITE LEGEND AND BORDER.
 - THE BOTTOM PORTION OF THE SIGN SHALL HAVE A WHITE BACKGROUND WITH A BLACK OPAQUE LEGEND AND BORDER.
 - THE FINE NOTIFICATION SIGN SHALL HAVE A WHITE BACKGROUND WITH A BLACK OPAQUE LEGEND AND BORDER.
 - ONE SIGN SHALL BE REQUIRED FOR EACH PARKING SPACE.
 - EACH SIGN SHALL HAVE A CLEARANCE OF 7 FEET FROM THE BOTTOM OF THE SIGN TO FINAL GRADE OR THE TOP OF CURBS, WHICHEVER IS GREATER. SIGNS SHALL NOT BE FARTHER THAN 5 FEET FROM THE FRONT OF THE PARKING SPACE.
 - ALL SIGNS SHALL BE MOUNTED ON 3 POUND CHANNEL POSTS. SIGNS MAY BE MOUNTED ON BUILDINGS WITH CITY APPROVAL.

ACCESSIBLE SIGN
N.T.S.



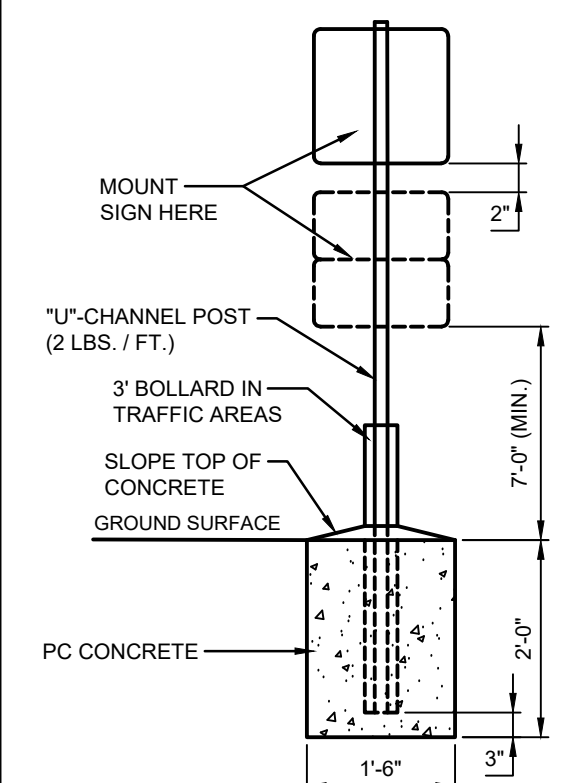
ADA STRIPING DETAIL
N.T.S.



- NOTES**
- WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE CURB SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

- NOTES**
- THE CONCRETE FOR CURBS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "I" CONCRETE, AND HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI.
 - ALL CURBS SHALL HAVE CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTERS FOR ALL CURBS.

TYPE F CURB DETAIL
N.T.S.

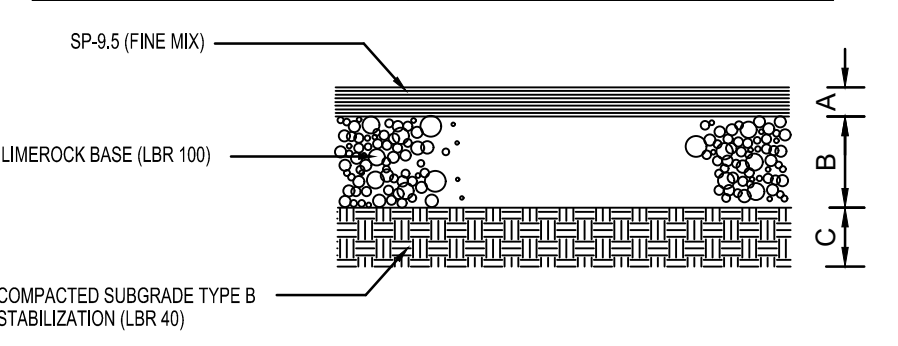


NOTE:

ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

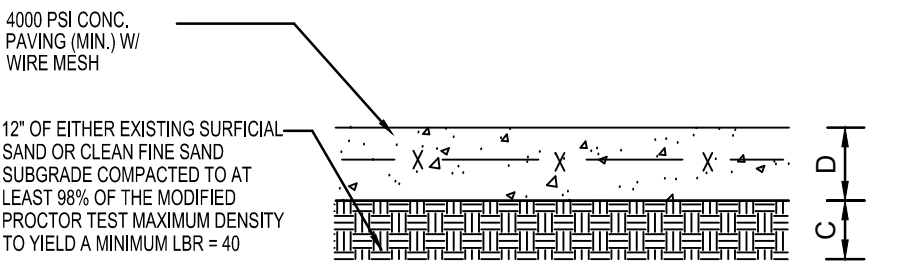
STANDARD SIGN BASE
N.T.S.

DIMENSION & TYPE			
	A	B	C
Standard Duty	2"	6"	12"
Heavy Duty	2.5"	8"	12"

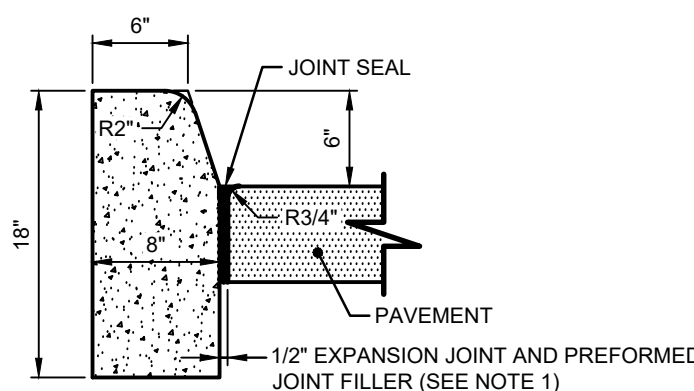


ASPHALT PAVING SECTION
N.T.S.

DIMENSION & TYPE			
	C	D	
Concrete Section	12"	6"	
Loading/Dumpster			

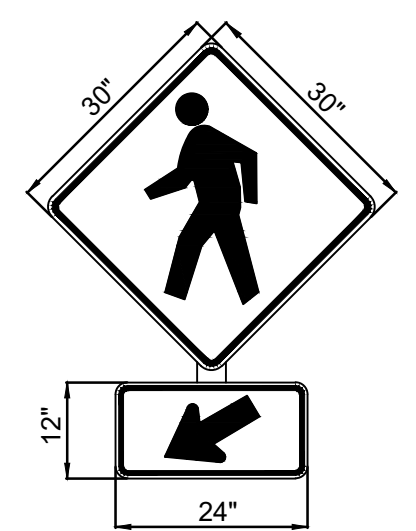


CONCRETE PAVING SECTION
N.T.S.



- NOTES**
- FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY.
 - THE CONCRETE FOR CURBS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "I" CONCRETE, AND HAVE A COMPRESSIVE STRENGTH OF 3000 PSI.
 - ALL CURBS SHALL HAVE CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTERS FOR ALL CURBS.

TYPE D CURB DETAIL
N.T.S.



NOTE:

RIGHT SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD, LATEST EDITION; WARNING SIGNS W11-2 (TOP) & W16-7R (BOTTOM) WITH A BLACK LEGEND ON A FLUORESCENT YELLOW-GREEN BACKGROUND.

PEDESTRIAN CROSSING SIGN
N.T.S.

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 Checked: J. Sattfield
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CONSTRUCTION DETAILS SHEET

KINGFISH BOAT RAMP
MANATEE COUNTY, FLORIDA

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CONSTRUCTION WITHOUT
COMPLETE SET OF PLANS.
SEE GENERAL NOTES FOR
MASTER LEGEND.

Sheet No.
C5.1

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