

THIS DRAWING, TOGETHER WITH THE CONCEPTS AND DESIGN PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DRAWING WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY HOBE SOUND ENVIRONMENTAL CONSULTANTS, INC. SHALL BE WITHOUT LIABILITY TO HOBE SOUND ENVIRONMENTAL CONSULTANTS, INC.

NOT A SURVEY



• 301 NW Flagler Ave
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341
E-mail: Capteci@aol.com

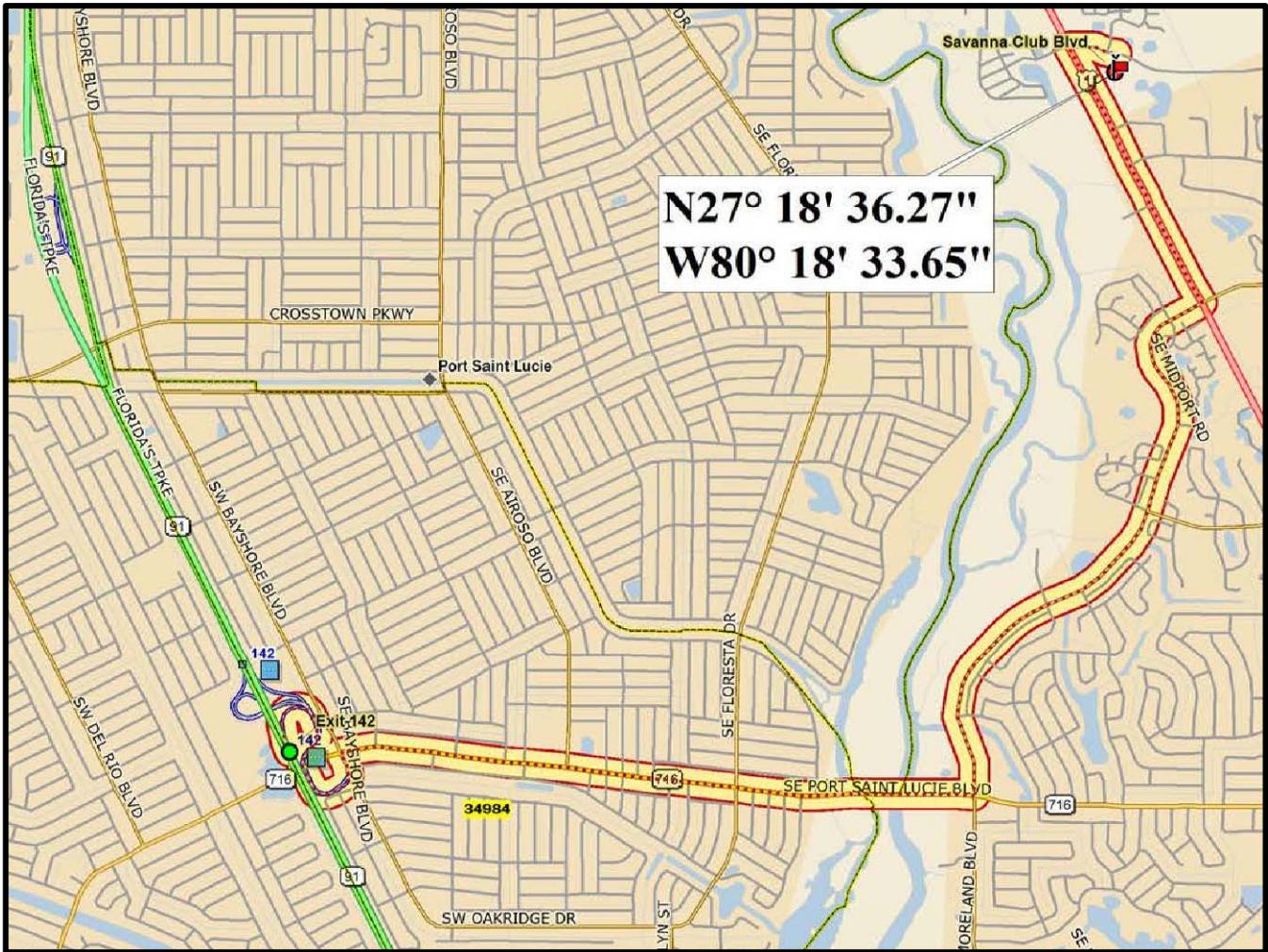
Engineering Business
No. EB-0007657



NORTH



SCALE: 1" = 3500'



DIRECTIONS:

	Dist	Turn	Road	Exit	Total Time	Total Dist
●		Start	at (Toll) Exit 142		00:00:00	0.00 mi
	in 0.00 mi	Go straight (NNW)	on (Toll) Florida's Tpke (SR 91)		00:00:00	0.00 mi
	in 0.74 mi	Keep right (ESE)	on to SE Bayshore Blvd ramp	142	00:00:00	0.00 mi
	in 0.09 mi	Go straight (NNW)	on to SE Bayshore Blvd		00:01:55	0.74 mi
	in 2.34 mi	Turn right (E)	on to SR 716 (SE Port Saint Lucie Blvd)		00:02:09	0.83 mi
	in 2.16 mi	Turn left (NNE)	on to SE Midport Rd		00:07:28	3.16 mi
	in 0.13 mi	Go straight (ENE)	on to Walton Rd		00:13:18	5.32 mi
	in 1.06 mi	Turn left (NNW)	on to US 1		00:13:39	5.45 mi
	in 0.18 mi	Turn right (E)	on to Savanna Club Blvd		00:15:55	6.52 mi
●		Finish	at Savanna Club Blvd		00:16:24	6.70 mi

PARCEL ID #S: 3426-766-0006-000-2, 3426-766-0005-000-5, 3426-766-0002-000-4, 3426-766-0008-000-6, 3426-766-0003-000-1, 3426-766-0001-000-7 and 3426-766-0007-000-9

SOURCE: DELORME STREET ATLAS USA PLUS, 2014

SFWMD PERMIT # 156-01529-P

ST. LUCIE COUNTY FLORIDA	SEC.	TWP.	R.	HSE JOB NO.: 15-032.14	DRAWING NAME: 01 - VICINITY MAP	DATE: 24 MARCH 2017	FIGURE: 1 OF 6
	26	36S	40E				
LATITUDE: 27°18'36.270"		LONGITUDE: -80°18'33.645"		DESIGNED BY: RLW	DRAWN BY: FRP	CHECKED BY: RLW	

TOWN PLACE
PSL TOWN PLACE PARTNERS, LLC
ACOE ENVIRONMENTAL RESOURCE PERMIT APPLICATION
ENG FORM 4345
VICINITY MAP

H S E Hobe Sound Environmental Consultants Inc.
9512 SE Duncan Street
Hobe Sound, FL. 33455
(772) 545-3676, E-mail: bobhsenv@gmail.com

THIS DRAWING, TOGETHER WITH THE CONCEPTS AND DESIGN PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DRAWING WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY HOBE SOUND ENVIRONMENTAL CONSULTANTS, INC. SHALL BE WITHOUT LIABILITY TO HOBE SOUND ENVIRONMENTAL CONSULTANTS, INC.

NOT A SURVEY



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E-mail: Captect@aol.com

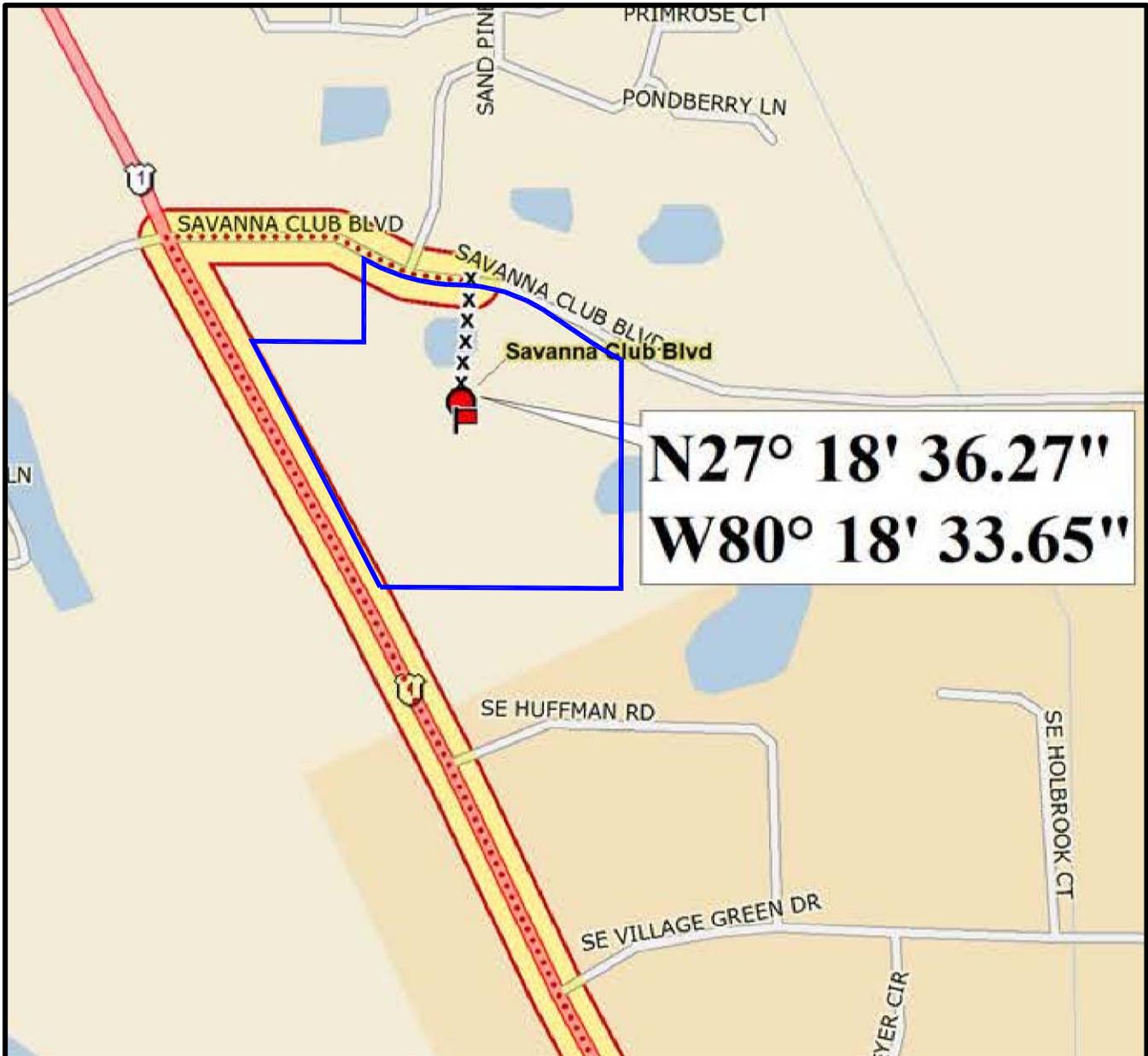
Engineering Business
No. EB-0007657



NORTH



SCALE: 1" = 500'



PARCEL ID #S: 3426-766-0006-000-2, 3426-766-0005-000-5, 3426-766-0002-000-4, 3426-766-0008-000-6, 3426-766-0003-000-1, 3426-766-0001-000-7 and 3426-766-0007-000-9

BOUNDARY SOURCE: CAPTEC ENGINEERING, INC.
SOURCE: DELORME STREET ATLAS USA PLUS, 2014

SFWM PERMIT # 156-01529-P

ST. LUCIE COUNTY FLORIDA	SEC.	TWP.	R.	HSE JOB NO.: 15-032.14	DRAWING NAME: 02 - LOCATION MAP	DATE: 24 MARCH 2017	FIGURE: 2 OF 6
	26	36S	40E				
LATITUDE: 27°18'36.270"		LONGITUDE: -80°18'33.645"		DESIGNED BY: RLW	DRAWN BY: FRP	CHECKED BY: RLW	

TOWN PLACE
PSL TOWN PLACE PARTNERS, LLC
ACOE ENVIRONMENTAL RESOURCE PERMIT APPLICATION
ENG FORM 4345
LOCATION MAP

H S E Hobe Sound Environmental Consultants Inc.
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Hobe Sound, FL. 33455
(772) 545-3676, E-mail: bobhsenv@gmail.com

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 E-mail: Captect@aol.com
 Engineering Business
 No. EB-0007657



NORTH



SCALE: 1" = 300'



PARCEL ID #S: 3426-766-0006-000-2, 3426-766-0005-000-5, 3426-766-0002-000-4, 3426-766-0008-000-6, 3426-766-0003-000-1, 3426-766-0001-000-7 and 3426-766-0007-000-9

SOURCE: 2016 ST. LUCIE COUNTY AERIAL PHOTOGRAPH, FDOT

SFWMD PERMIT # 156-01529-P

ST. LUCIE COUNTY FLORIDA	SEC.	TWP.	R.	HSE JOB NO.: 15-032.14	DRAWING NAME: 03 - 2016 AERIAL	DATE: 24 MARCH 2017	FIGURE: 3 OF 6
	26	36S	40E				
LATITUDE: 27°18'36.270"		LONGITUDE: -80°18'33.645"		DESIGNED BY: RLW	DRAWN BY: FRP	CHECKED BY: RLW	

TOWN PLACE
 PSL TOWN PLACE PARTNERS, LLC
 ACOE ENVIRONMENTAL RESOURCE PERMIT APPLICATION
 ENG FORM 4345
 2016 AERIAL PHOTOGRAPH

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 9512 SE Duncan Street
 Hobe Sound, FL. 33455
 (772) 545-3676, E-mail: bobhsenv@gmail.com

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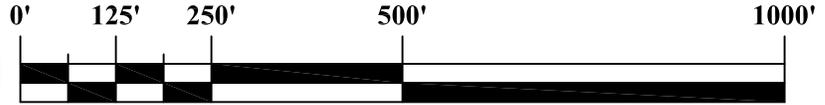
NOT A SURVEY



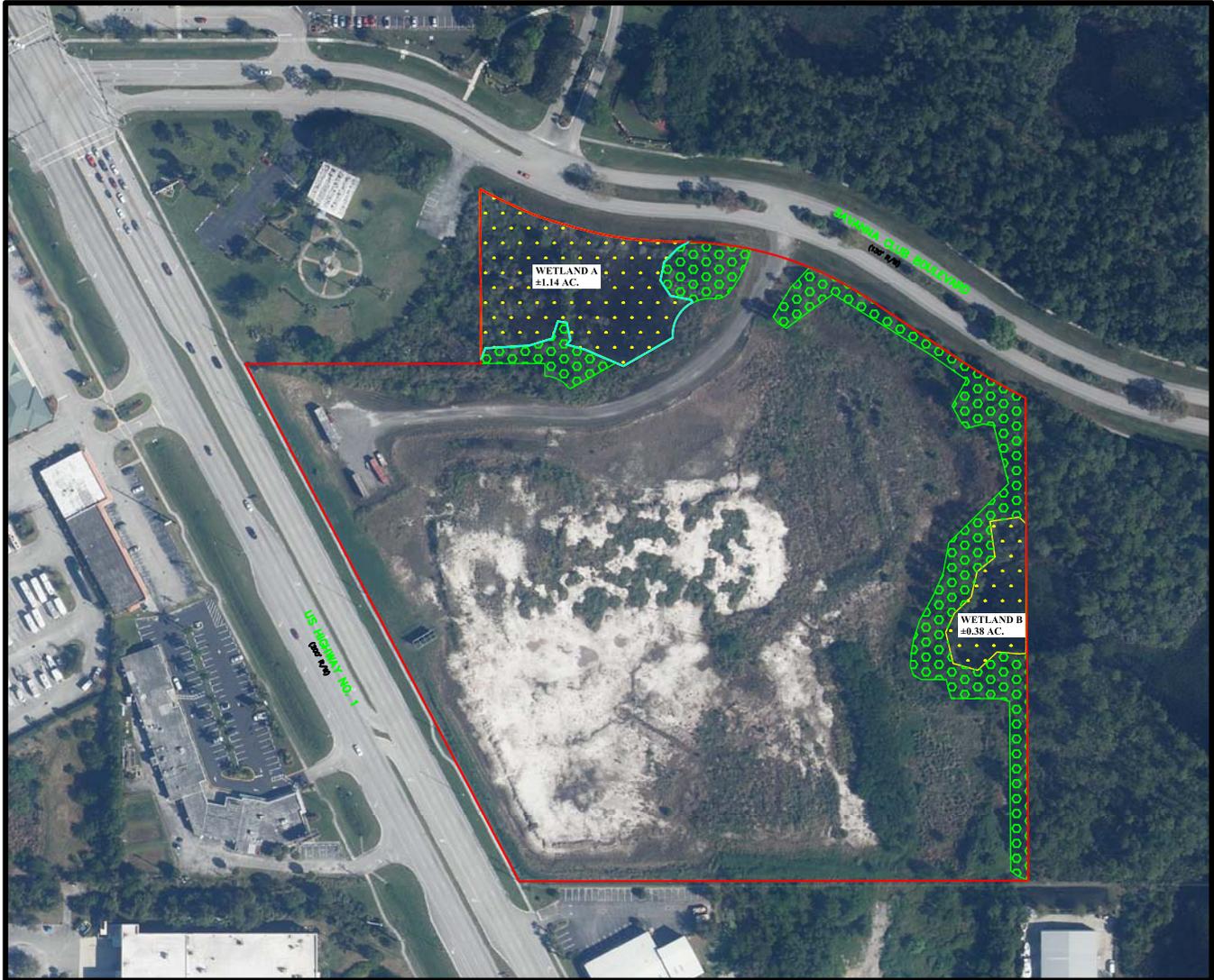
• 301 NW Flagler Ave
 Stuart, Florida 34994
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 Fax: (772) 692-4341
 E-mail: Captec1@aol.com
 Engineering Business
 No. EB-0007657



NORTH



SCALE: 1" = 250'



LEGEND



**EXISTING WETLAND
 TOTAL ± 1.52 AC.**



**UPLAND BUFFER
 TOTAL ± 1.335 AC.**

PARCEL ID #S: 3426-766-0006-000-2, 3426-766-0005-000-5, 3426-766-0002-000-4, 3426-766-0008-000-6, 3426-766-0003-000-1, 3426-766-0001-000-7 and 3426-766-0007-000-9

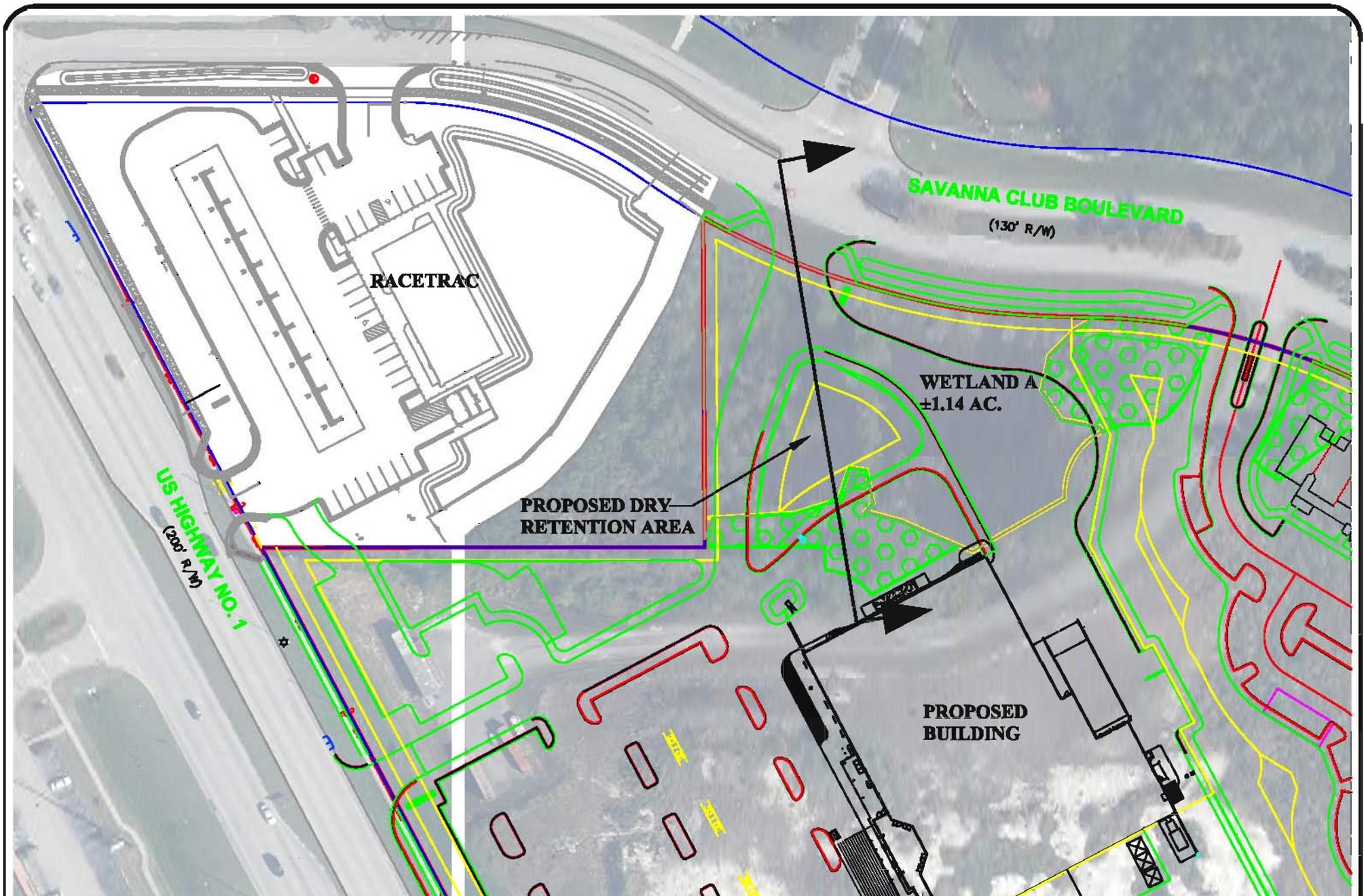
SOURCE: 2014 ST LUCIE COUNTY AERIAL PHOTOGRAPH, HSE WETLAND DELINEATION

SFWMD PERMIT # 156-01529-P

ST. LUCIE COUNTY FLORIDA	SEC.	TWP.	R.	HSE JOB NO.: 15-032.14	DRAWING NAME: 04 - WETLANDS.DWG	DATE: 24 MARCH 2017	FIGURE: 4 OF 6
	26	36S	40E				
LATITUDE: 27°18'36.270"		LONGITUDE: -80°18'33.645"		DESIGNED BY: RLW	DRAWN BY: SGS	CHECKED BY: RLW	

**TOWN PLACE
 PSL TOWN PLACE PARTNERS, LLC
 REVISED ENVIRONMENTAL ASSESSMENT (EA)
 EXISTING WETLANDS MAP**

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 301 N.W. Flagler Ave
 Stuart, Florida 34984
 P.E. No. 37838
 Phone: (772) 699-4344
 Fax: (772) 682-4341

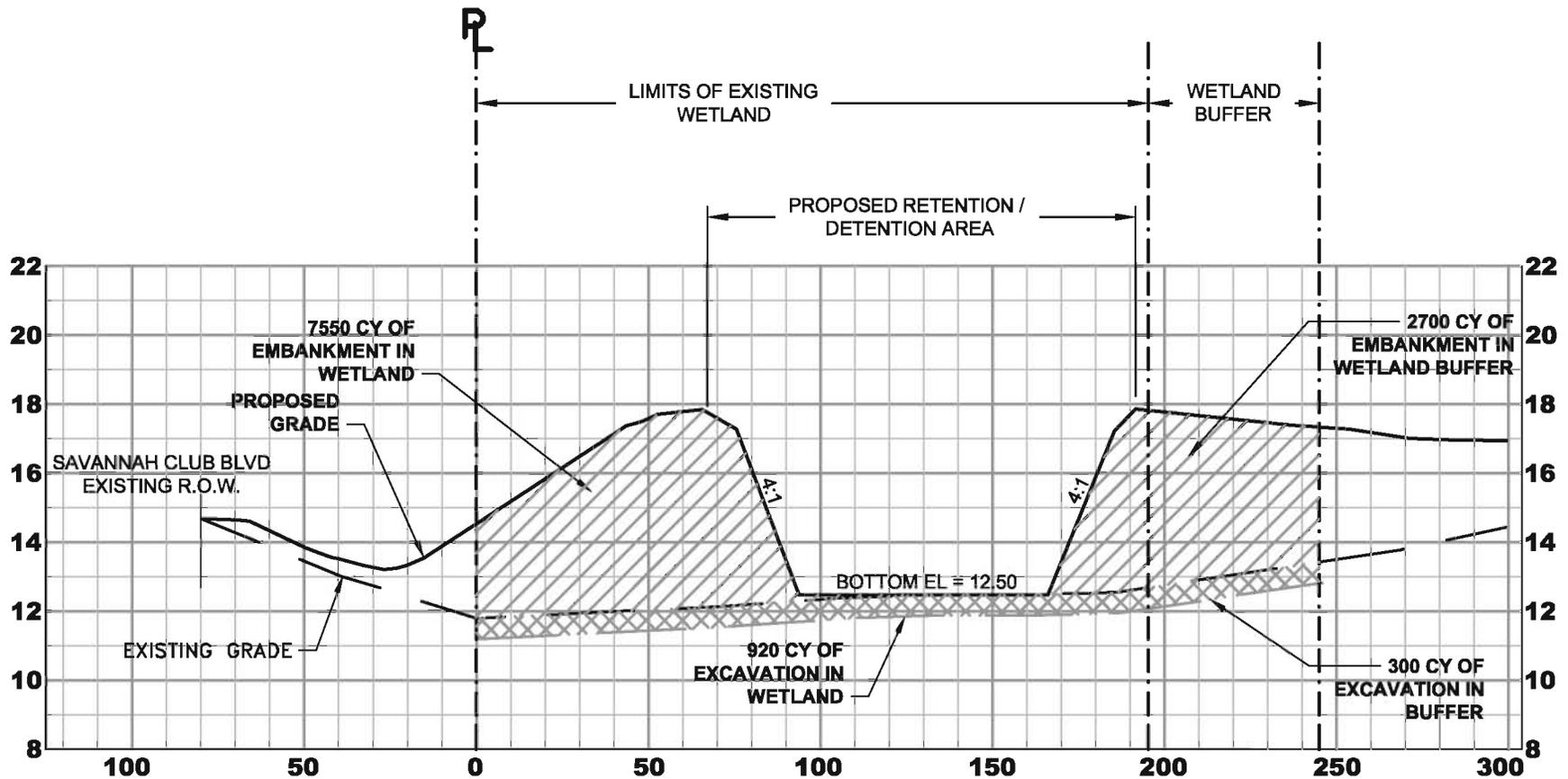
Engineering Business
 No. EB-007657

DATE: 4/21/17
 DRAWN BY: AJA
 DESIGNED BY: HLT
 CHECKED BY: JWC
 PROJECT No.: 1688
 HORZ. SCALE: 1"=50'
 VERT. SCALE: 1"=5'
 CADD FILE: Section

TOWN PLACE
CITY OF PORT ST. LUCIE
WETLAND "A" PLAN

SCALE VERIFICATION

0 = 1" = 50'
 SOLID BAR IS EQUAL TO
 HALF AN INCH ON ORIGINAL
 DRAWING. ADJUST ALL
 SCALED DIMENSIONS
 ACCORDINGLY



LEGEND:

- EXCAVATION (920 CY WETLAND, 300 CY WETLAND BUFFER)
- EMBANKMENT (7550 CY WETLAND, 2700 CY WETLAND BUFFER)

SCALE:
 1" = 50' HORIZ.
 1" = 5' VERT.



• Joseph W. Capra
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 P.E. No. 37638
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Engineering Business
 No. EB-007657

DATE: 4/3/17
 DRAWN BY: AJA
 DESIGNED BY: HLT
 CHECKED BY: JWC
 PROJECT No.: 1689
 HORZ. SCALE: 1"=50'
 VERT. SCALE: 1"=5'
 CADD FILE: Sections

TOWN PLACE
 CITY OF PORT ST. LUCIE
WETLAND "A" SECTION

SCALE VERIFICATION
 0 ——— 0.5
 SOLID BAR IS EQUAL TO
 HALF AN INCH ON ORIGINAL
 DRAWING, ADJUST ALL
 SCALED DIMENSIONS
 ACCORDINGLY

Construction Plans and Specifications Of **TOWN PLACE**

City of Port St. Lucie, Florida

Paving, Grading & Drainage Plan

Lying In

**Section 26, Township 36 S. , Range 40 E.
St Lucie County, Florida**



LOCATION MAP

NOTES:
 THESE PLANS ARE IN ENGLISH UNITS. ALL ELEVATIONS HEREIN REFERENCE N.A.V.D. 1988 DATUM. ADD 1.48 FEET TO CONVERT TO N.G.V.D. 1929 DATUM. ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.

ENGINEER

MR. JOSEPH W. CAPRA, P.E.
 CAPTEC ENGINEERING, INC.
 301 NW FLAGLER AVENUE
 SUITE 201
 P.E. NO. 37638
 STUART, FLORIDA 34994
 PHONE: (561) 692-4344
 FAX: (561) 692-4341

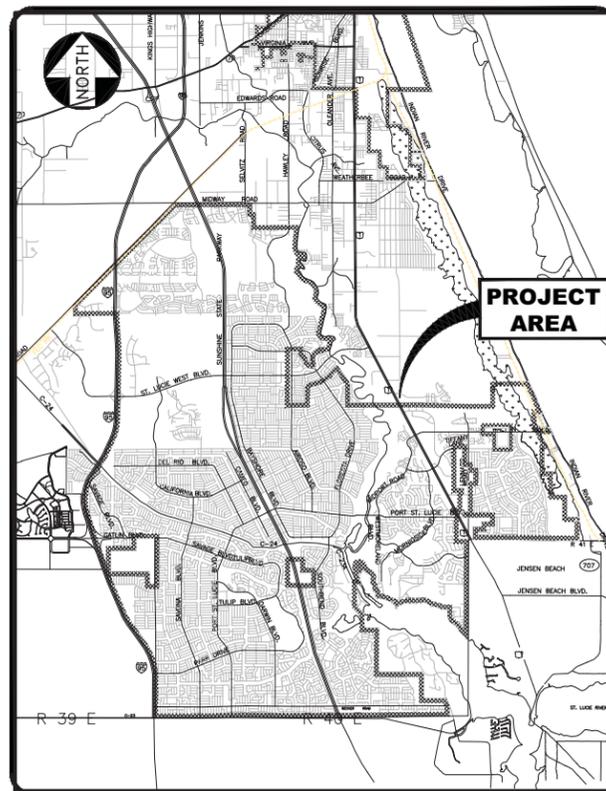
OWNER

PSL TOWN PLACE PARTNERS, LLC
 RICHARD LUNDY
 3737 COVENTRY LANE
 BOCA RATON, FLORIDA 33467
 OFFICE: (772) 446-7344



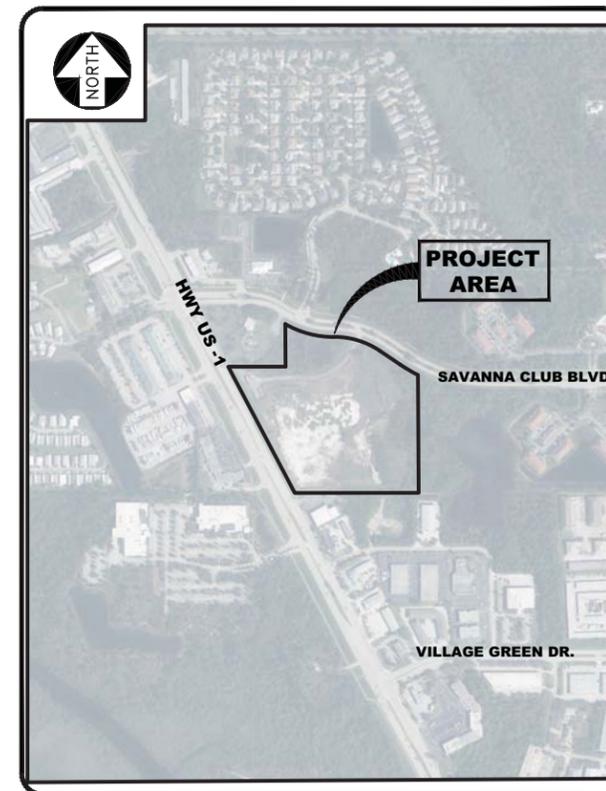
Civil Engineering Professionals

Engineering Business
 No. EB-0007657



Vicinity Map

N.T.S.

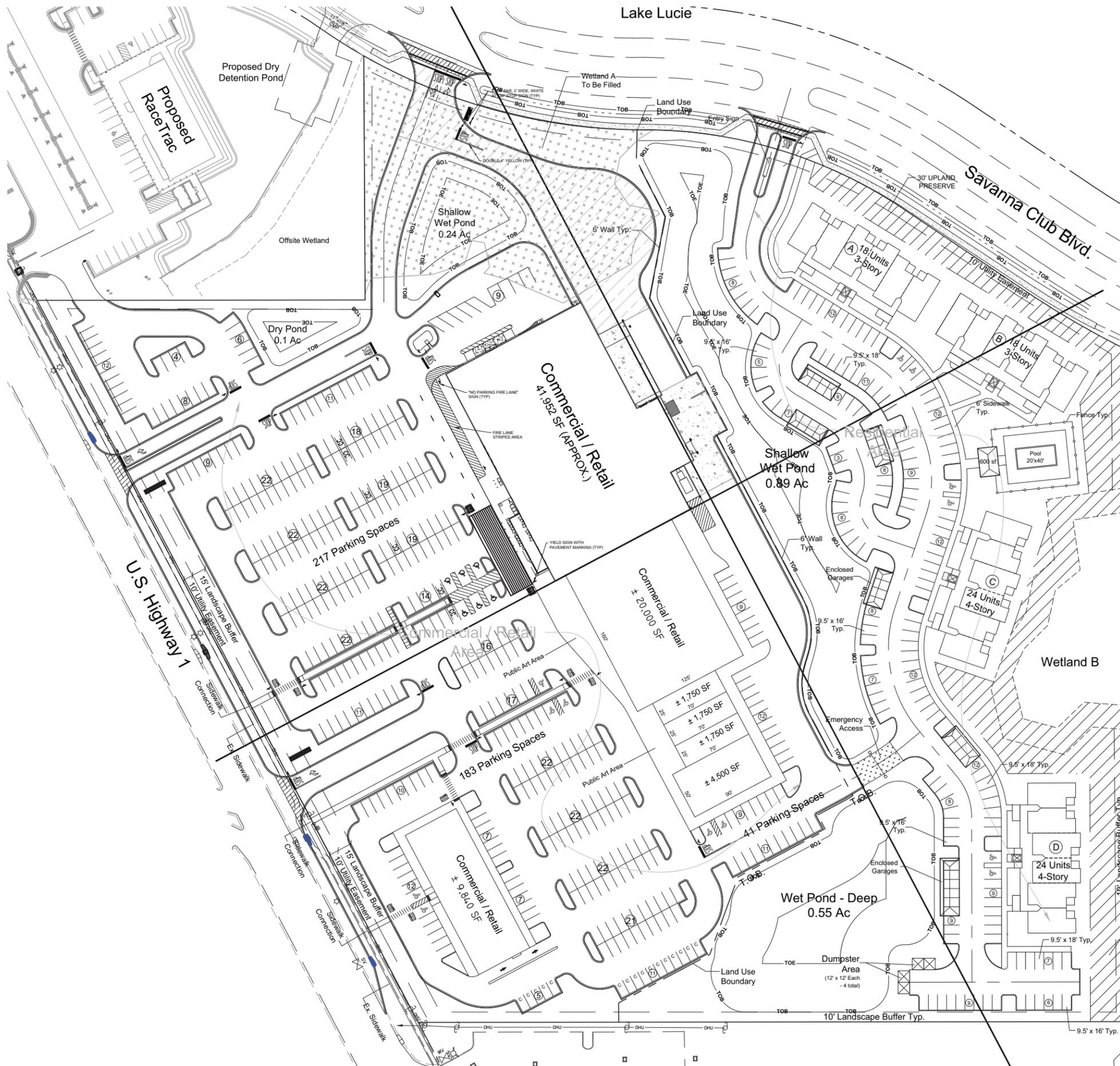


Site Map

N.T.S.

SHEET INDEX

SHEET NUMBER	SHEET TITLE / DESCRIPTION
1	COVER SHEET
2	SITE PLAN
3	EROSION CONTROL PLAN
4	MASTER DRAINAGE PLAN
5 - 8	PAVING, GRADING AND DRAINAGE PLAN
9	OFFSITE DRAINAGE PLAN
10	DRAINAGE DETAILS
11	GENERAL NOTES



Location Map



**HJA DESIGN
STUDIO**
LANDSCAPE ARCHITECTURE

50 E. Ocean Blvd., Suite 101
Stuart, Florida 34994

T 772.678.7200
F 772.678.7201

www.hjadesignstudio.com
LA 0000905

Owner Address

3737 Coventry Lane
Boca Raton, FL 33467

Site Address

998 Town Place Boulevard
Port St. Lucie, FL 34952

Site Data

Total Site	± 18.51 Ac
General Commercial Parcel	± 10.85 Ac
Multi-family Parcel	± 7.66 Ac

Commercial Data

Building Data	
Commercial / Retail	81,542 SF

Parking Data

Commercial / Retail Required Parking	432 Spaces
81,542 SF @ 5 per 1000 SF	
Total Commercial / Retail Provided Parking	441 Spaces

Residential Data

Multi-family Parcel - Total Site Area	7.66 Ac
Proposed Apartment Units	84 Units
Gross Site Density (84 DU / 7.66 Ac)	10.96 DU/AC

Parking Data

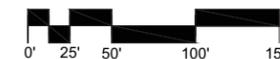
Required Parking	193 Spaces
2 Spaces per Unit (84 units x 2)	168 Spaces
Guest Parking - 1 Space per 5 Units (84 Units / 5)	17 Spaces
Pool Area Parking	
Pool Building - 1 Space per 200 sf (600 sf / 200)	3 Spaces
Pool & Pool Deck - 1 Space per 600 sf (3,000 sf / 600)	5 Spaces
Provided Parking	190 Spaces

Legend

- C** Compact Parking Space (30 Shown)
- 9' x 18' Typ. or 9' x 16' with 2' overhang when located along perimeter.
- Wetland To Be Filled



Scale: 1" = 50'

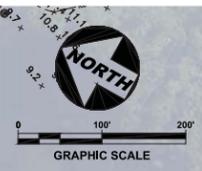
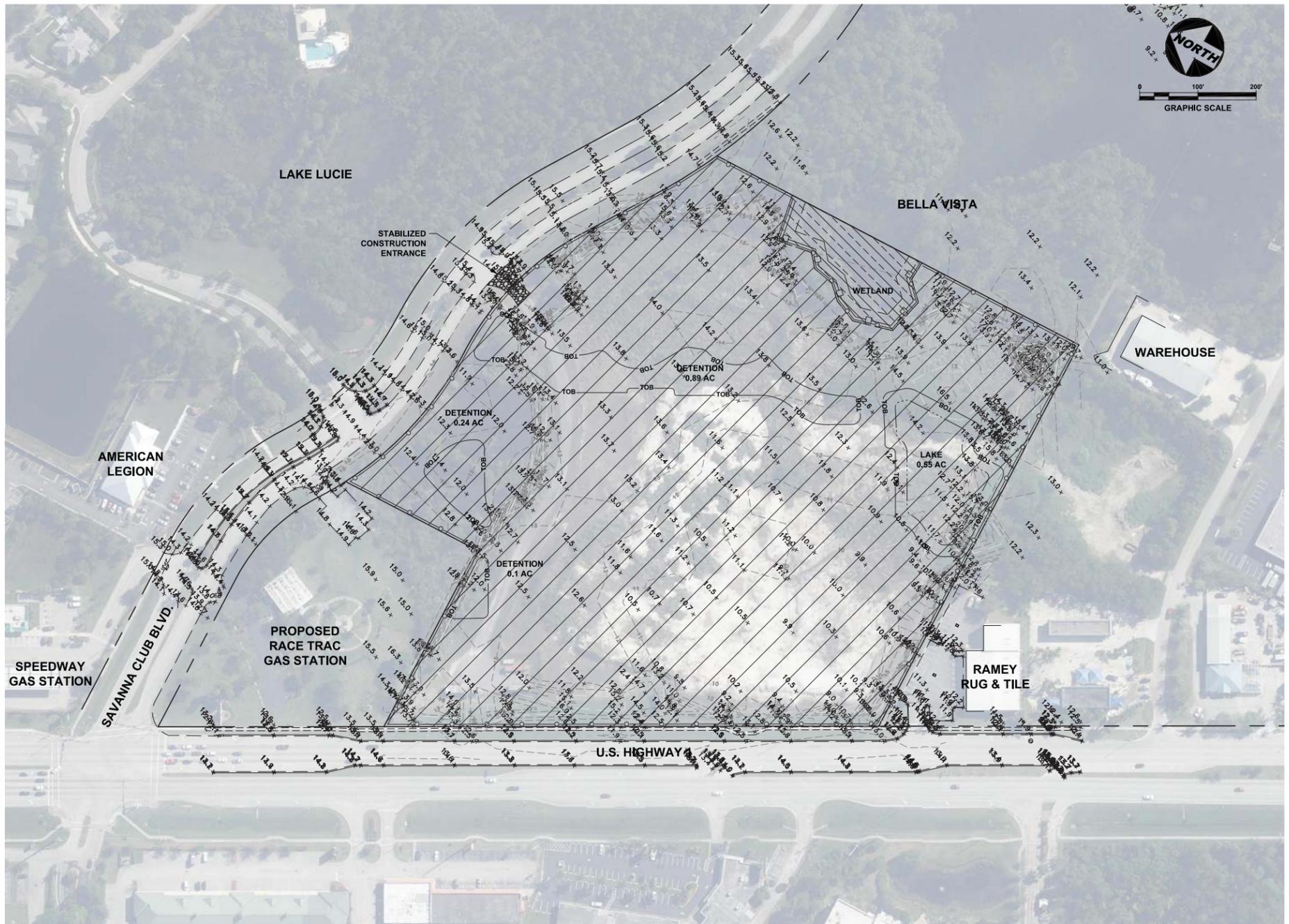


Florida

Town Place
City of Port St. Lucie
Preliminary Site Plan

Copyright
The following drawings are instruments of service to the Landscape Architect. They are not products of design. All ideas, designs, arrangements, and plans indicated or represented by this drawing are owned by and the property of the designer, and were created, evolved, and developed for use on and in connection with the specified project. None of such ideas, designs, arrangements, or plans shall be used by or disclosed to any person, firm, or corporation for any purpose whatsoever without the written permission of the designer.

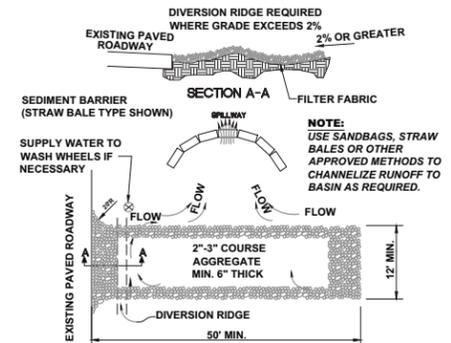
Job No. 15029
Drawn By TT
Checked By MH
Approved By MH
Submittal Dates 2-10-16
Revision Dates xxxxxx



LEGEND

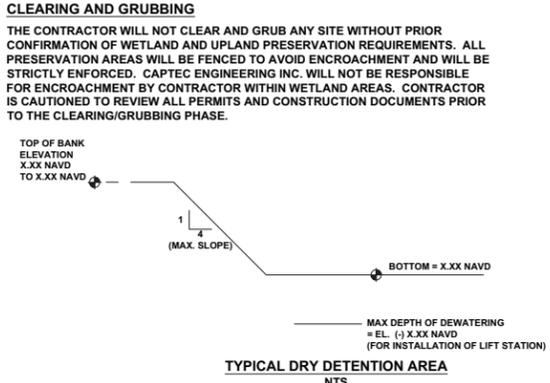
	SITE BOUNDARY
	RIGHT-OF-WAY LINE
	EXIST. EDGE OF PAVEMENT
	SILT FENCE
	ORANGE SAFETY FENCE
	LIMITS OF STANDARD CLEARING AND GRUBBING
	LIMITS OF EXOTIC CLEARING AND GRUBBING (SUPERVISED BY ENVIRONMENTAL PROFESSIONAL)

- NOTES:**
- PROPERTY CORNERS SHALL BE LOCATED BY A LICENSED LAND SURVEYOR AND CLEARLY MARKED IN THE FIELD PRIOR TO THE ENGINEERING DEPARTMENT'S PRE-CONSTRUCTION MEETING FOR SITE DEVELOPMENT.
 - AUTHORIZATION TO INSTALL EROSION CONTROL DEVICES AND PRESERVE BARRICADES WILL BE GRANTED AT THE PRE-CONSTRUCTION MEETING. THIS AUTHORIZATION SHALL BE POSTED ON THE SITE, IN THE PERMIT BOX, IT'S LOCATION SHOWN ELSEWHERE IN THIS PAGE.
 - NO LAND CLEARING SHALL BE AUTHORIZED UNTIL PERMIT IS OBTAINED FROM THE GROWTH MANAGEMENT DEPARTMENT AND POSTED, FOLLOWING SATISFACTORY INSPECTION OF REQUIRED CONTROL STRUCTURES AND BARRICADES.
 - ALL CONSTRUCTION BARRICADES AND SILT FENCES WILL REMAIN IN PLACE AND MONITORED FOR COMPLIANCE BY THE PERMIT HOLDER DURING THE PERMITTED DEVELOPMENT ACTIVITIES.
 - SOIL STABILIZATION SHALL BE COMPLETED WITHIN 30 DAYS OF VEGETATION REMOVAL. STABILIZATION TO CONSIST OF PLACEMENT OF SOD OR SEED / MULCH (3" MIN.) OF ALL DISTURBED AREAS.
 - BOUNDARY MARKERS WILL BE PLACED AT THE CORNERS OF RESIDENTIAL LOTS, ABUTTING PRESERVE AREAS. ALL SIGNS AND BOUNDARY MARKERS WILL BE APPROVED BY THE MARTIN COUNTY ENVIRONMENTAL PLANNING ADMINISTRATOR AND WILL BE PLACED PRIOR TO ISSUANCE OF BUILDING PERMIT FOR CONSTRUCTION ON THIS SITE.
 - FOLLOWING CERTIFICATION OF OCCUPANCY FOR THE DEVELOPMENT, ALL BARRICADES AND EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
 - RELOCATION OF UTILITY LINES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



- NOTES:**
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT BASIN.

STABILIZED CONSTRUCTION ENTRANCE



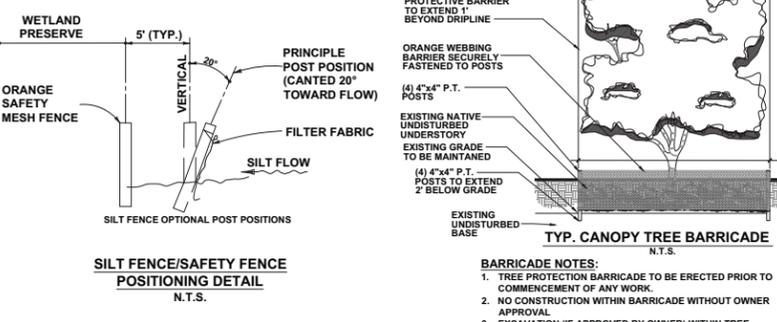
DEWATERING PUMPING OPERATIONS

AVERAGE DAILY PUMPAGE
A SINGLE (1) 2,500 GPM, 8" DISCHARGE PUMP OPERATING AT 40% MAXIMUM CAPACITY FOR AN AVERAGE PUMPING RATE OF 2,500 GPM x 40% x 1 PUMP = 1,000 GPM FOR A TOTAL OF 1,440,000 GPD

MAXIMUM DAILY PUMPAGE
A SINGLE (1) 2,500 GPM, 8" DISCHARGE PUMP OPERATING AT 80% MAXIMUM CAPACITY FOR A MAXIMUM PUMPING RATE OF 2,500 GPM x 80% x 1 PUMP = 2,000 GPM FOR A TOTAL OF 2,880,000 GPD

TOTAL PUMPAGE
TOTAL PUMPAGE = AVG DAILY x 10 DAYS
= 1.44 MGD x 10 DAYS
= 14,400,000 GALLONS

- NOTES FOR DEWATERING**
- PRIOR TO DEWATERING, ALL SILT FENCE AND ORANGE SAFETY FENCE SHALL BE CONSTRUCTED.
 - IN CASE OF HEAVY RAIN STORM, ALL DEWATERING ACTIVITIES SHALL CEASE.
- ORDER OF EXCAVATION**
- INSTALL SILT FENCES AND ORANGE SAFETY FENCES.
 - INSTALL WELL POINTS OR UNDERGROUND SOCK DRAINS AS NEEDED.
 - PIPE DISCHARGE TO DEWATERING CELL.
 - SET DEWATERING PUMPS AS NEEDED FOR INSTALLATION OF UTILITIES.
 - PUMP TO RECHARGE TRENCH AND DEWATERING CELL.



- BARRICADE NOTES:**
- TREE PROTECTION BARRICADE TO BE ERECTED PRIOR TO COMMENCEMENT OF ANY WORK.
 - NO CONSTRUCTION WITHIN BARRICADE WITHOUT OWNER APPROVAL.
 - EXCAVATION (IF APPROVED BY OWNER) WITHIN TREE PROTECTION AREAS IS LIMITED TO HAND TOOLS (NO MACHINERY).

301 NW Flagler Ave., Ste. 201
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Phone: (772) 882-4341
Fax: (772) 882-4341

CAPTEC
Engineering, Inc.

Civil Engineering Professionals
No. EB-0007657

DATE: _____

DRAWN BY: MDR
DESIGNED BY: CG
CHECKED BY: JWC
PROJECT NO.: 1669
HORZ. SCALE: 1" = 100'
VERT. SCALE: N/A
CADD FILE/Erosion Control

NO.	DATE	BY	REVISIONS

SCALE VERIFICATION

1
SOLID LINES ARE EQUAL
ORIGINAL DRAWING
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

**TOWN PLACE
PORT ST LUCIE, FL
CLEARING, GRUBBING
AND DEWATERING PLAN**

Joseph W. Capra
301 N.W. Flagler Ave., Ste. 201
Stuart, Florida 34994
P.E. No. 37638

PROJECT AREA SITE DATA

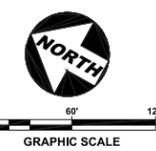
TOTAL SITE AREA	18.51 AC
WETLAND B AREA	0.37 AC
PROJECT AREA	18.14 AC

BASIN 1 AREA	6.53 AC
• BUILDING	1.04 AC
• PAVEMENT	3.87 AC
• LAKE @ C.E.	0.13 AC
• PERVIOUS	1.49 AC

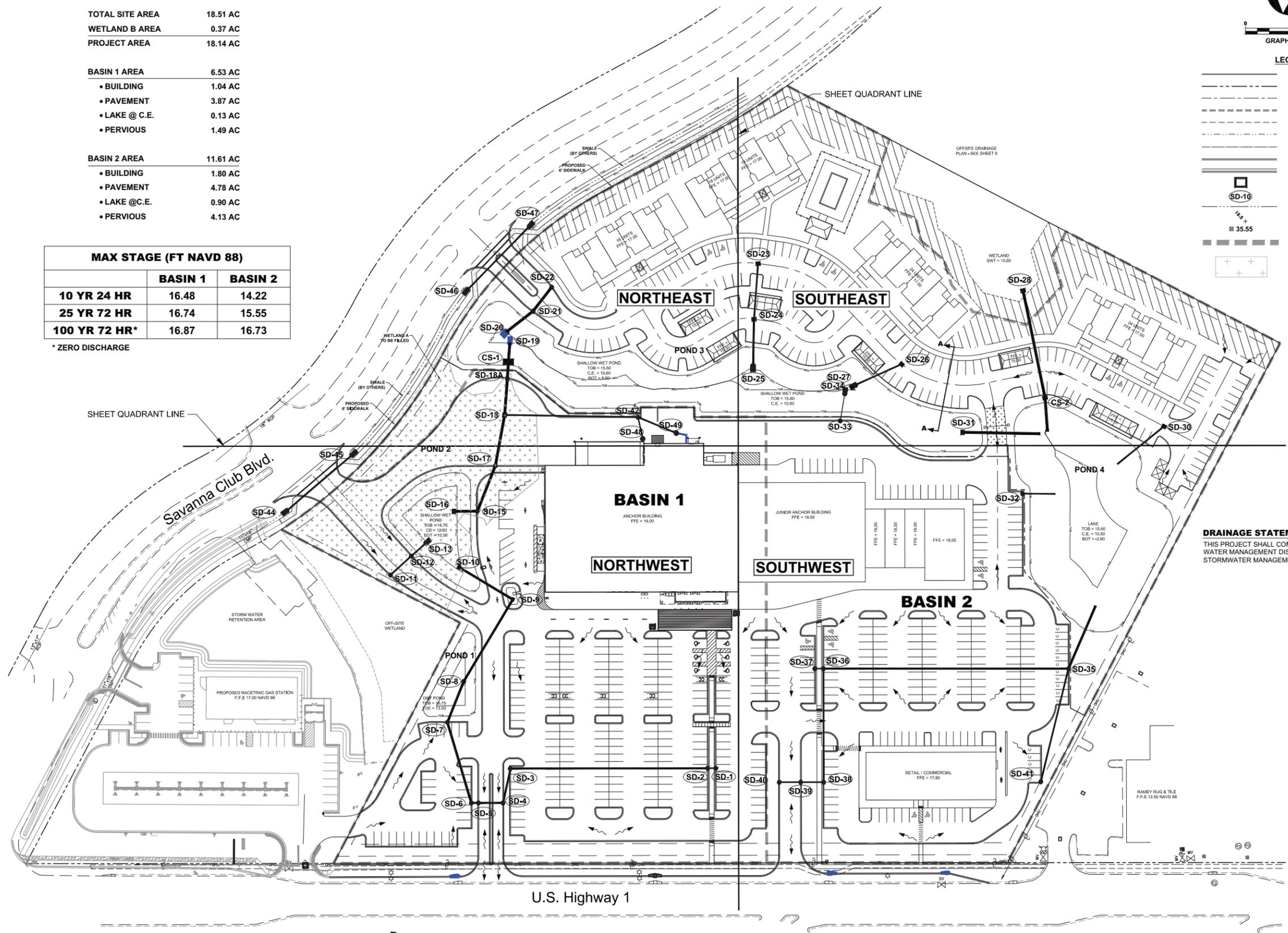
BASIN 2 AREA	11.61 AC
• BUILDING	1.80 AC
• PAVEMENT	4.78 AC
• LAKE @ C.E.	0.90 AC
• PERVIOUS	4.13 AC

MAX STAGE (FT NAVD 88)		
	BASIN 1	BASIN 2
10 YR 24 HR	16.48	14.22
25 YR 72 HR	16.74	15.55
100 YR 72 HR*	16.87	16.73

* ZERO DISCHARGE



- LEGEND**
- PROPERTY LINE
 - - - RIGHT-OF-WAY LINE
 - - - DRIVING AISLE CENTERLINE
 - - - EXISTING CURB
 - - - EXISTING EASEMENT
 - - - EXISTING DITCH
 - - - EXISTING WETLAND
 - - - PROPOSED TYPE D CURB
 - - - PROPOSED TYPE F CURB
 - PROPOSED DRAINAGE STRUCTURE
 - SD-10 PROPOSED STRUCTURE NUMBER
 - - - PROPOSED SWALE
 - - - EXISTING GRADE
 - - - PROPOSED GRADE
 - - - PROPOSED BASIN BOUNDARY
 - WETLAND TO BE FILLED



DRAINAGE STATEMENT
 THIS PROJECT SHALL COMPLY WITH SOUTH FLORIDA WATER MANAGEMENT DISTRICT, CITY OF PORT ST. LUCIE STORMWATER MANAGEMENT AND REQUIREMENTS.

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 Stuart, Florida 34994
 Phone: (772) 882-4344
 Fax: (772) 882-4341

CAPTEC
 Engineering, Inc.

Civil Engineering Professionals
 No. EB-007657

DATE:	MDR
DRAWN BY:	CG
CHECKED BY:	JWC
PROJECT NO.:	1669
HORIZ. SCALE:	1" = 60'
VERT. SCALE:	N/A
CADD FILE:	1669.s

SCALE VERIFICATION

1
 0

SOLID LINES ARE EQUAL ORIGINAL DRAWING DIMENSIONS ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

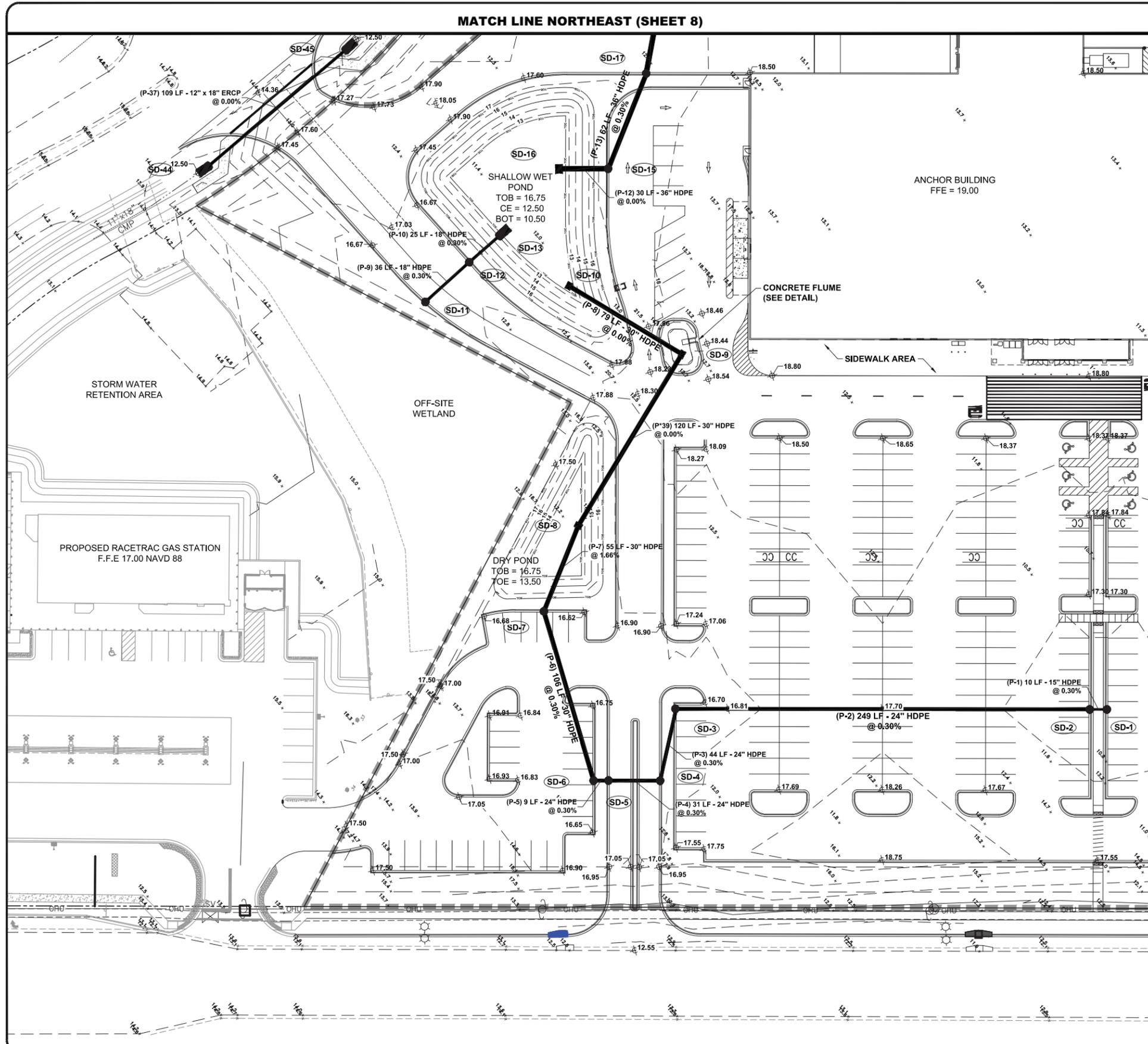
TOWN PLACE
 PORT ST. LUCIE, FL

MASTER DRAINAGE PLAN

Joseph W. Capra
 301 N.W. Flagler Ave., Ste. 201
 Stuart, Florida 34994
 P.E. No. 37638

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MATCH LINE NORTHEAST (SHEET 8)



MATCH LINE SOUTHWEST (SHEET 6)



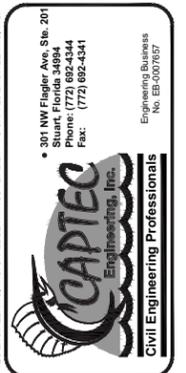
LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- - - DRIVING AISLE CENTERLINE
- - - EXISTING CURB
- - - EXISTING EASEMENT
- - - EXISTING DITCH
- - - EXISTING WETLAND
- - - PROPOSED TYPE D CURB
- - - PROPOSED TYPE F CURB
- PROPOSED DRAINAGE STRUCTURE
- SD-10 PROPOSED STRUCTURE NUMBER
- PROPOSED SWALE
- - - EXISTING GRADE
- - - PROPOSED GRADE
- - - PROPOSED BASIN BOUNDARY

DRAINAGE STATEMENT

THIS PROJECT SHALL COMPLY WITH SOUTH FLORIDA WATER MANAGEMENT DISTRICT, CITY OF PORT ST. LUCIE STORMWATER MANAGEMENT AND REQUIREMENTS .

STRUCTURE DATA	
STRUCTURE NAME	STRUCTURE DETAILS
SD-1	TYPE '9' INLET W/ 'P' BOTTOM GRATE=16.50 INV OUT=12.03 (P-1)
SD-2	TYPE '9' INLET W/ 'P' BOTTOM GRATE=16.50 INV IN=12.00 (P-1) INV OUT=12.00 (P-2)
SD-3	TYPE '9' INLET W/ 'P' BOTTOM GRATE=16.50 INV IN=11.25 (P-2) INV OUT=11.25 (P-3)
SD-4	TYPE '9' INLET W/ 'P' BOTTOM GRATE=16.50 INV IN=11.12 (P-3) INV OUT=11.12 (P-4)
SD-5	TYPE '9' INLET W/ 'P' BOTTOM GRATE=16.50 INV IN=11.03 (P-4) INV OUT=11.03 (P-5)
SD-6	TYPE '9' INLET W/ 'P' BOTTOM GRATE=16.50 INV IN=11.00 (P-5) INV OUT=11.00 (P-6)
SD-7	TYPE '9' INLET W/ 'P' BOTTOM GRATE=16.50 INV IN=10.68 (P-6) INV OUT=9.10 (P-7)
SD-8	TYPE 'C' INLET GRATE=13.50 INV IN=8.18 (P-7) INV OUT=8.18 (P-39)
SD-9	TYPE 'C' INLET GRATE=17.00 INV IN=8.18 (P-39) INV OUT=8.18 (P-8)
SD-10	TYPE 'C' INLET GRATE=12.50 INV IN=8.18 (P-8)
SD-11	TYPE '9' INLET W/ 'P' BOTTOM GRATE=16.50 INV OUT=12.75 (P-9)
SD-12	TYPE '9' INLET W/ 'P' BOTTOM GRATE=16.51 INV IN=12.64 (P-9) INV OUT=12.64 (P-10)
SD-13	MES INV IN=12.57 (P-10)
SD-15	TYPE '9' INLET W/ 'P' BOTTOM GRATE=17.50 INV OUT=7.25 (P-12) INV OUT=9.30 (P-13)
SD-16	TYPE 'D' INLET GRATE=12.50 INV IN=7.25 (P-12)
SD-17	TYPE '9' INLET W/ 'P' BOTTOM GRATE=17.25 INV IN=9.12 (P-13) INV OUT=9.12 (P-14)
SD-44	MES INV IN=12.50 (P-37)
SD-45	MES INV OUT=12.50 (P-37)



DATE:	MDR
DRAWN BY:	CG
DESIGNED BY:	JWC
CHECKED BY:	JWC
PROJECT NO.:	1669
HORIZ. SCALE:	1" = 30'
VERT. SCALE:	N/A
CADD FILE:	SB.swg

NO.	DATE	BY	REVISIONS

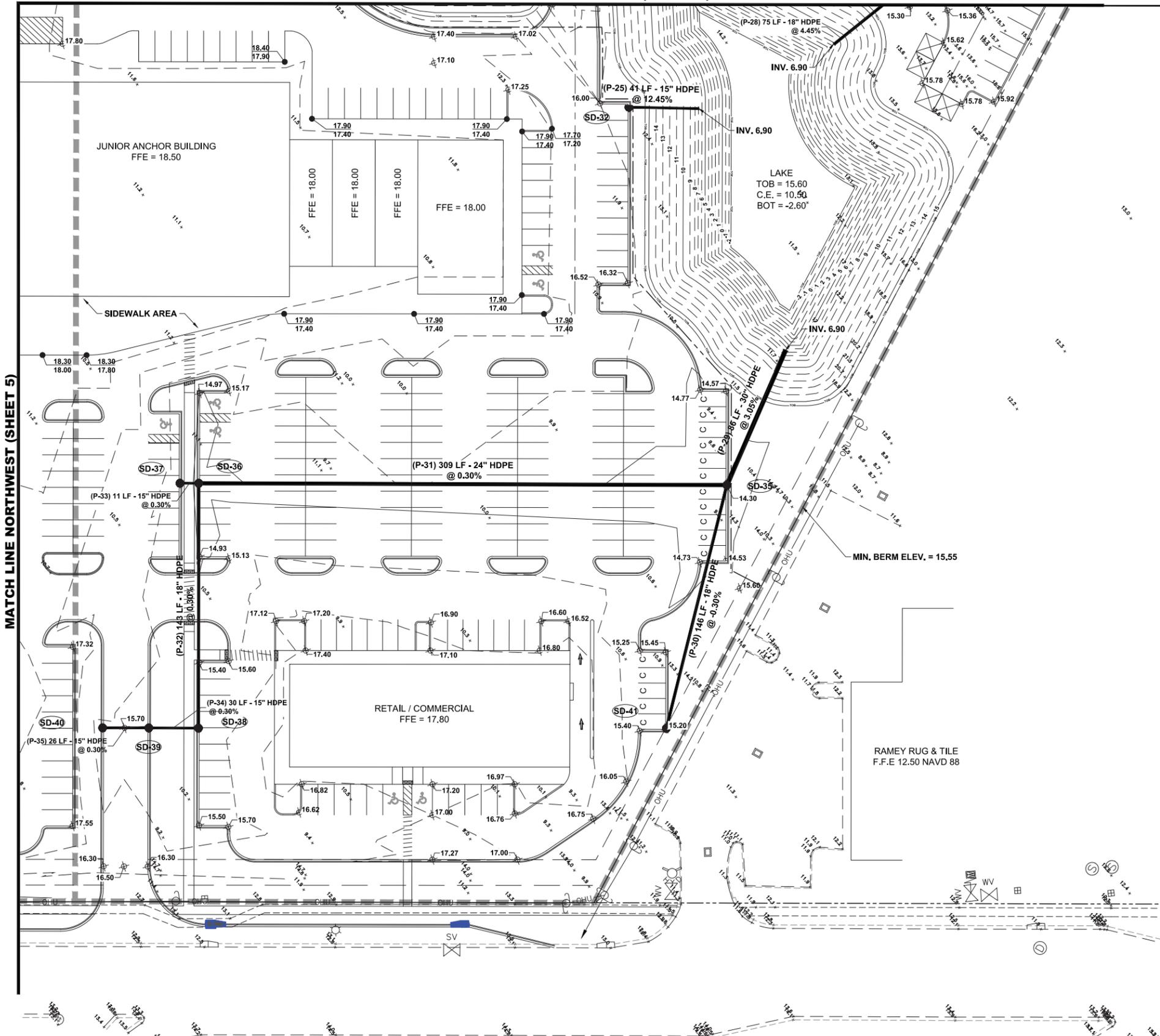
SCALE VERIFICATION
 1" = 30'
 SOLID LINES ARE EQUAL TO ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY.

TOWN PLACE - NW
 PORT ST LUCIE, FL
PAVING, GRADING AND DRAINAGE PLAN

Joseph W. Capra
 301 N.W. Flagler Ave., Ste. 201
 Stuart, Florida 34994
 P.E. No. 37638

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MATCH LINE SOUTHEAST (SHEET 7)



LEGEND

- PROPERTY LINE
- - - RIGHT-OF-WAY LINE
- - - DRIVING AISLE CENTERLINE
- - - EXISTING CURB
- - - EXISTING EASEMENT
- - - EXISTING DITCH
- - - EXISTING WETLAND
- PROPOSED TYPE D CURB
- PROPOSED TYPE F CURB
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED STRUCTURE NUMBER
- PROPOSED SWALE
- - - EXISTING GRADE
- - - PROPOSED GRADE
- PROPOSED BASIN BOUNDARY

DRAINAGE STATEMENT
 THIS PROJECT SHALL COMPLY WITH SOUTH FLORIDA WATER MANAGEMENT DISTRICT, CITY OF PORT ST. LUCIE STORMWATER MANAGEMENT AND REQUIREMENTS.

STRUCTURE DATA	
STRUCTURE NAME	STRUCTURE DETAILS
SD-32	TYPE '9' INLET W/ 'P' BOTTOM GRATE=15.80 INV OUT=12.00 (P-25)
SD-35	TYPE '9' INLET W/ 'P' BOTTOM GRATE=14.30 INV IN=9.52 (P-31) INV OUT=9.52 (P-29) INV OUT=10.45 (P-30)
SD-36	TYPE '9' INLET W/ 'P' BOTTOM GRATE=14.70 INV IN=10.45 (P-32) INV OUT=10.48 (P-33) INV OUT=10.45 (P-31)
SD-37	TYPE '9' INLET W/ 'P' BOTTOM GRATE=15.70 INV IN=10.45 (P-33)
SD-38	TYPE '9' INLET W/ 'P' BOTTOM GRATE=15.20 INV IN=10.88 (P-34) INV OUT=10.88 (P-32)
SD-39	TYPE '9' INLET W/ 'P' BOTTOM GRATE=15.50 INV IN=10.97 (P-35) INV OUT=10.97 (P-34)
SD-40	TYPE '9' INLET W/ 'P' BOTTOM GRATE=15.50 INV OUT=11.05 (P-35)
SD-41	TYPE '9' INLET W/ 'P' BOTTOM GRATE=15.20 INV IN=10.89 (P-30)



DATE: _____

DRAWN BY: MDR

DESIGNED BY: CG

CHECKED BY: JWC

PROJECT NO.: 1669

HORIZ. SCALE: 1" = 30'

VERT. SCALE: N/A

CADD FILE: \$B\$

NO.	DATE	BY	REVISIONS

SCALE VERIFICATION

1
 0
 SOLID LINES ARE EQUAL
 ORIGINAL DRAWING
 ADJUST ALL SCALED
 DIMENSIONS
 ACCORDINGLY

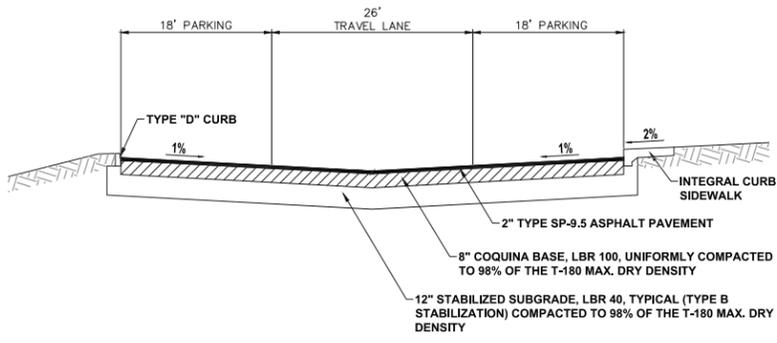
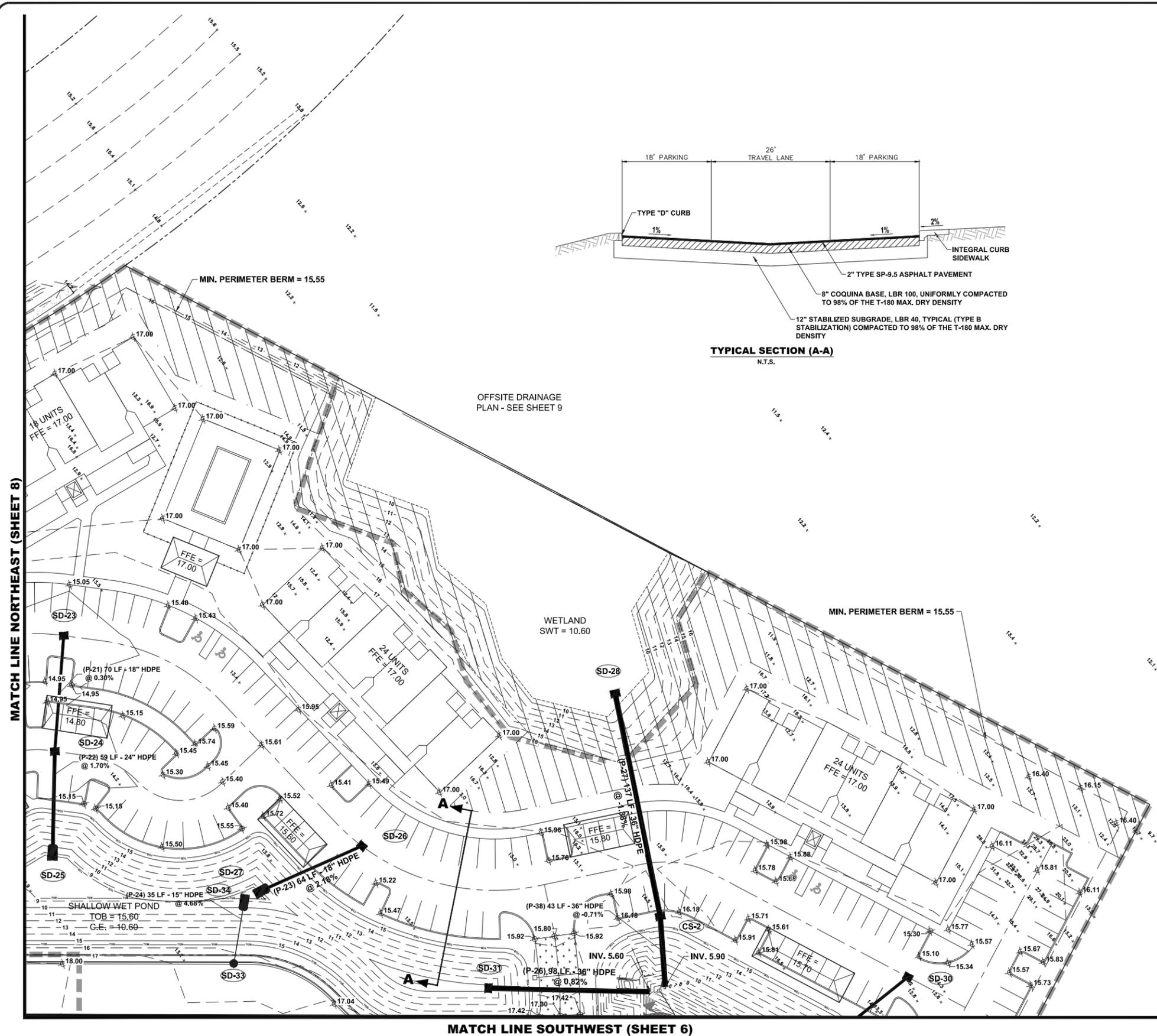
TOWN PLACE - SW
 PORT ST LUCIE, FL

**PAVING, GRADING
 AND DRAINAGE PLAN**

Joseph W. Capra
 301 N.W. Flagler Ave., Ste. 201
 Stuart, Florida 34994
 P.E. No. 37638

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MATCH LINE NORTHWEST (SHEET 5)



TYPICAL SECTION (A-A)
N.T.S.

OFFSITE DRAINAGE
PLAN - SEE SHEET 9



LEGEND

- PROPERTY LINE
- - - RIGHT-OF-WAY LINE
- - - DRIVING AISLE CENTERLINE
- - - EXISTING CURB
- - - EXISTING EASEMENT
- - - EXISTING DITCH
- - - EXISTING WETLAND
- PROPOSED TYPE D CURB
- PROPOSED TYPE F CURB
- PROPOSED DRAINAGE STRUCTURE
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- PROPOSED SWALE
- - - EXISTING GRADE
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- PROPOSED BASIN BOUNDARY

DRAINAGE STATEMENT

THIS PROJECT SHALL COMPLY WITH SOUTH FLORIDA WATER MANAGEMENT DISTRICT, CITY OF PORT ST. LUCIE STORMWATER MANAGEMENT AND REQUIREMENTS .

STRUCTURE DATA	
STRUCTURE NAME	STRUCTURE DETAILS
CS-2	MODIFIED TYPE 'D' INLET 3.5" BLEEDER INV=10.60 5"x5" SLOT INV=12.50 40" WEIR INV=15.25 GRATE=15.00 INV OUT=5.60 (P-27) INV OUT=5.60 (P-38)
SD-23	TYPE 'E' INLET GRATE=14.85 INV OUT=10.81 (P-21)
SD-24	TYPE 'E' INLET GRATE=14.55 INV IN=10.60 (P-21) INV OUT=10.60 (P-22)
SD-25	MES INV IN=9.60 (P-23)
SD-26	TYPE 'E' INLET GRATE=15.00 INV OUT=11.25 (P-23)
SD-27	MES INV IN=9.85 (P-23)
SD-28	TYPE 'E' INLET GRATE=10.83 INV IN=7.50 (P-27)
SD-30	TYPE 'E' INLET GRATE=15.00 INV OUT=11.25 (P-28)
SD-31	TYPE 'E' INLET GRATE=9.73 INV OUT=6.40 (P-26)
SD-33	TYPE 'E' INLET W/ 'P' BOTTOM GRATE=16.40 INV OUT=11.26 (P-24)
SD-34	MES INV IN=9.60 (P-24)

MATCH LINE NORTHEAST (SHEET 8)

MATCH LINE SOUTHWEST (SHEET 6)

301 NW Flagler Ave. Ste. 201
Stuart, Florida 34994
Phone: (772) 882-4344
Fax: (772) 882-4341

Civil Engineering Professionals
No. EB-0007657

DATE:	MDR
DRAWN BY:	CG
DESIGNED BY:	JWC
CHECKED BY:	JWC
PROJECT NO.:	1689
HORIZ. SCALE:	1" = 30'
VERT. SCALE:	N/A
CADD FILE:	SB88e

NO.	DATE	BY	REVISIONS

SCALE VERIFICATION

1" = 30'

SOLID LINES IS EQUAL ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY.

TOWN PLACE - SE
PORT ST LUCIE, FL

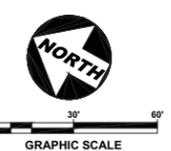
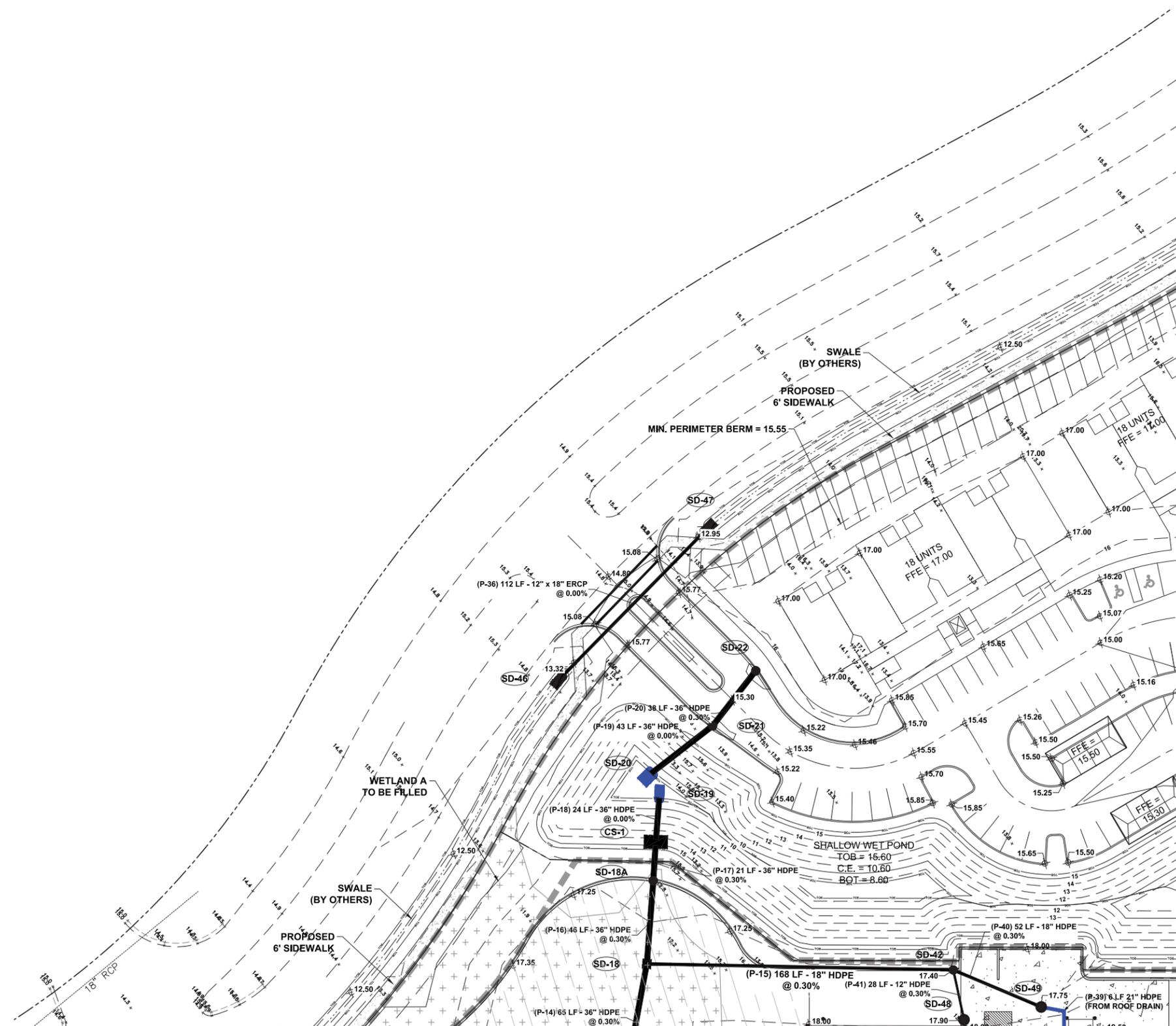
PAVING, GRADING AND DRAINAGE PLAN

Joseph W. Capra
301 N.W. Flagler Ave., Ste. 201
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No.: **1689**
SHEET
07 OF **11**

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- LEGEND**
- PROPERTY LINE
 - RIGHT-OF-WAY LINE
 - DRIVING AISLE CENTERLINE
 - - - - - EXISTING CURB
 - - - - - EXISTING EASEMENT
 - - - - - EXISTING DITCH
 - - - - - EXISTING WETLAND
 - PROPOSED TYPE D CURB
 - PROPOSED TYPE F CURB
 - PROPOSED DRAINAGE STRUCTURE
 - PROPOSED STRUCTURE NUMBER
 - PROPOSED SWALE
 - EXISTING GRADE
 - PROPOSED GRADE
 - PROPOSED BASIN BOUNDARY
 - HEAVY DUTY CONCRETE
 - WETLAND TO BE FILLED

DRAINAGE STATEMENT
 THIS PROJECT SHALL COMPLY WITH SOUTH FLORIDA WATER MANAGEMENT DISTRICT, CITY OF PORT ST. LUCIE STORMWATER MANAGEMENT AND REQUIREMENTS.

STRUCTURE DATA	
STRUCTURE NAME	STRUCTURE DETAILS
CS-1	MODIFIED TYPE 'H' INLET 3'x9' BLEEDER INV=12.50 105' WER INV=15.90 GRATE=16.90 INV IN=8.72 (P-17) INV OUT=8.60 (P-18)
SD-18	Type 'J' MH RIM=17.50 INV IN=8.92 (P-14) INV IN=8.92 (P-15) INV OUT=8.92 (P-16)
SD-18A	TYPE '9' INLET W/ '9' BOTTOM GRATE=16.50 INV IN=8.78 (P-16) INV OUT=8.78 (P-17)
SD-19	MES INV IN=8.60 (P-18)
SD-20	MES INV IN=8.60 (P-19)
SD-21	TYPE '9' INLET W/ '9' BOTTOM GRATE=14.80 INV IN=8.28 (P-20) INV OUT=9.60 (P-19)
SD-22	TYPE '9' INLET W/ '9' BOTTOM GRATE=14.80 INV IN=8.40 (P-20)
SD-42	TYPE '9' INLET W/ '9' BOTTOM GRATE=17.40 INV IN=8.42 (P-41) INV IN=8.42 (P-40) INV OUT=9.42 (P-15)
SD-46	MES INV IN=12.50 (P-36)
SD-47	MES INV OUT=12.50 (P-36)
SD-48	TYPE 'J' MH WITH SUMP PUMP RIM=17.50 INV OUT=9.50 (P-41)
SD-49	TYPE 'J' MH W/ GRATE GRATE=17.75 INV OUT=9.58 (P-40)



DATE:	MDR
DRAWN BY:	CG
DESIGNED BY:	JWC
CHECKED BY:	JWC
PROJECT NO.:	1669
HORIZ. SCALE:	1" = 30'
VERT. SCALE:	N/A
CADD FILE:	88.swg

NO.	DATE	BY	REVISIONS

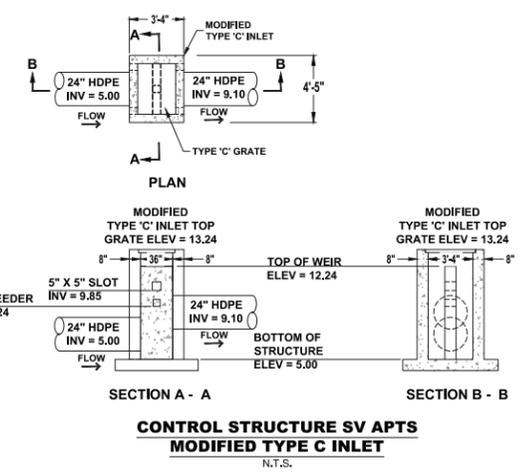
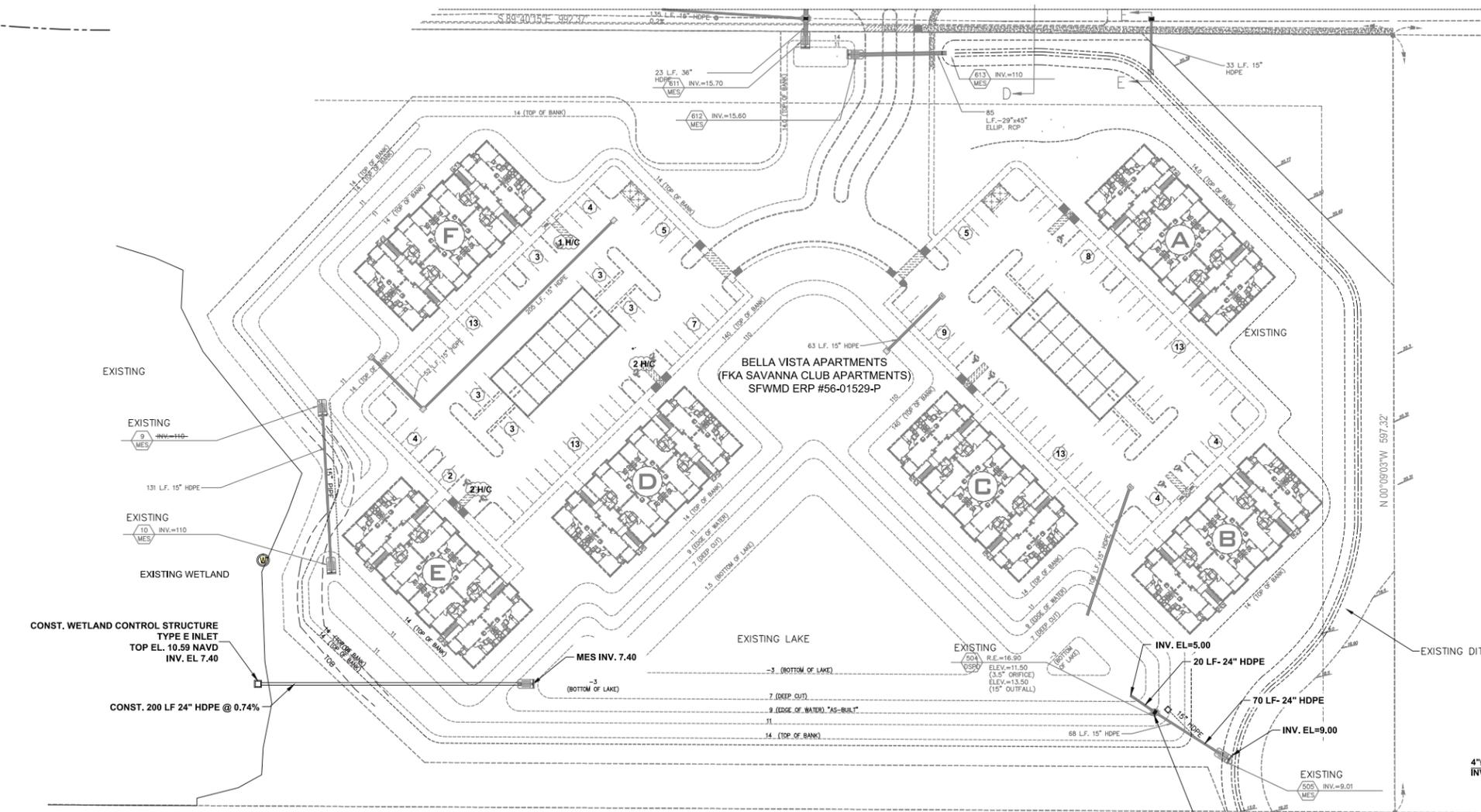
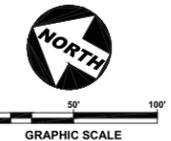
SCALE VERIFICATION
 1" = 30'
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 SOLID LINES ARE EQUAL
 TO ORIGINAL DRAWING.
 ADJUST ALL SCALED
 DIMENSIONS
 ACCORDINGLY

TOWN PLACE - NE
 PORT ST LUCIE, FL
**PAVING, GRADING
 AND DRAINAGE PLAN**

Joseph W. Capra
 301 N.W. Flagler Ave., Ste. 201
 Stuart, Florida 34994
 P.E. No. 37638

MATCH LINE NORTHWEST (SHEET 5)

MATCH LINE SOUTHEAST (SHEET 7)



**CONTROL STRUCTURE SV APTS
MODIFIED TYPE C INLET**
N.T.S.

REMOVE EXIST. CONTROL STRUCTURE AND
CONSTRUCT NEW CONTROL STRUCTURE
(SEE DETAIL)

CAPTEC
Engineering, Inc.
Civil Engineering Professionals
 301 NW Flagler Ave. Ste. 201
Stuart, Florida 34994
Phone: (772) 682-4344
Fax: (772) 682-4341
 Engineering Business
No. BB-007657

DATE:	MDR
DRAWN BY:	CG
CHECKED BY:	JWC
PROJECT NO.:	1669
HORIZ. SCALE:	1" = 30'
VERT. SCALE:	N/A
CADD FILE:	88.swg

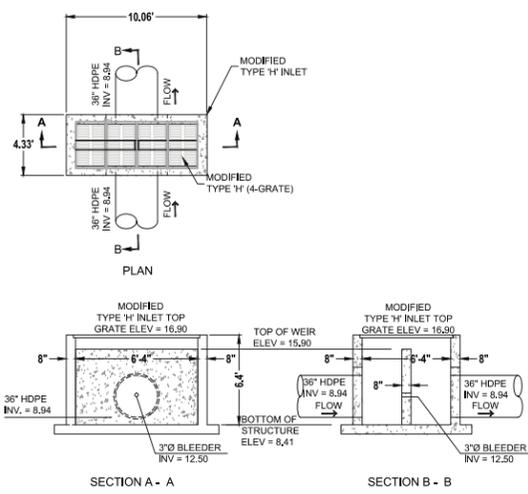
NO.	DATE	BY	REVISIONS

SCALE VERIFICATION	1
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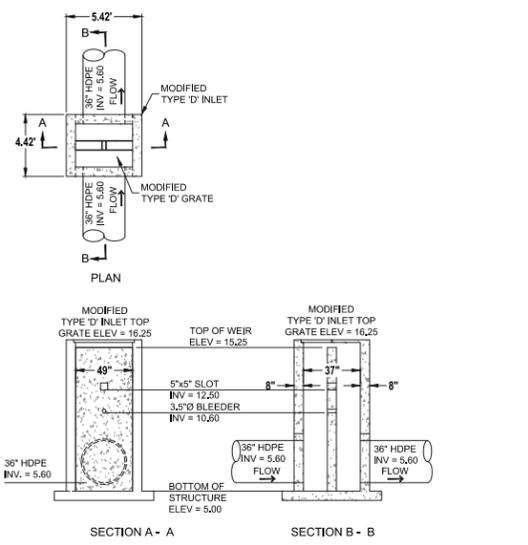
TOWN PLACE
PORT ST LUCIE, FL
BELLA VISTA APARTMENTS
OFFSITE DRAINAGE PLAN

Joseph W. Capra
 301 N.W. Flagler Ave., Ste. 201
 Stuart, Florida 34994
 P.E. No. 37638

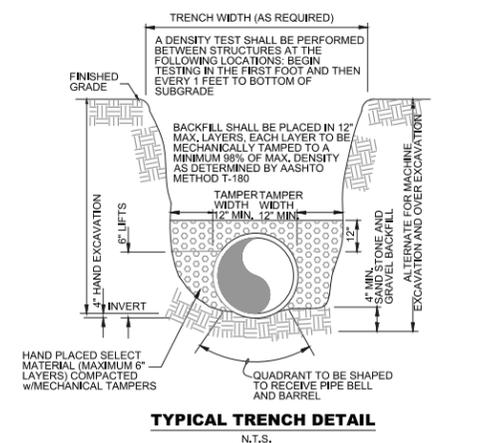
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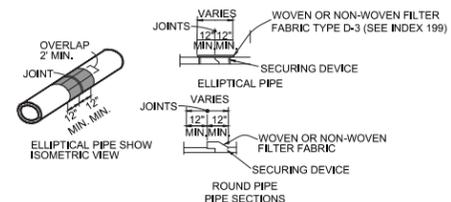
CONTROL STRUCTURE CS-1
N.T.S.



CONTROL STRUCTURE CS-2
N.T.S.

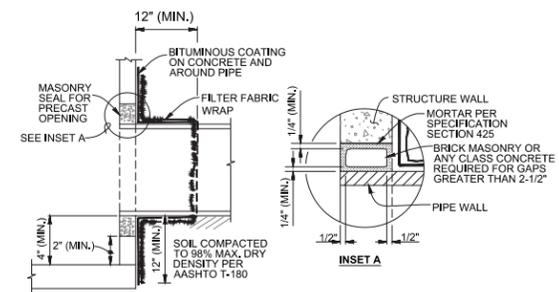


TYPICAL TRENCH DETAIL
N.T.S.

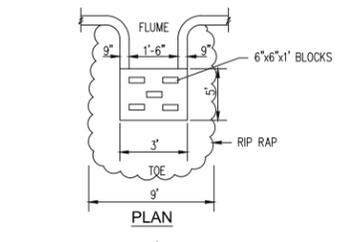


FOR ALL PIPE TYPES - CONCRETE PIPE SHOWN COST OF FILTER FABRIC JACKET TO BE INCLUDED IN COST OF PIPE CULVERTS
ALL STORM PIPE JOINTS SHALL BE WRAPPED
STORM PIPE JOINTS SHALL BE WRAPPED ACCORDING TO THIS DETAIL. COMPLETELY WRAP THE OUTSIDE OF EACH JOINT WITH EITHER A WOVEN OR NON-WOVEN FILTER FABRIC WHICH PROVIDES AN AOS OF A NO. 70 TO NO. 100 SIEVE (150 TO 212 um), A MINIMUM OF 24 INCHES (600 mm) IN WIDTH AND A LENGTH TO PROVIDE A MINIMUM OVERLAP OF 24 INCHES (600 mm). SECURE FILTER FABRIC AGAINST THE OUTSIDE OF THE PIPE BY STEEL OR PLASTIC STRAPPING OR BY OTHER METHODS APPROVED BY THE ENGINEER. (REF. F.D.O.T. INDEX 280 FOR DETAILS OF CONSTRUCTION).

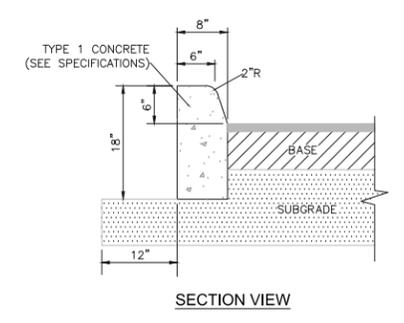
FILTER FABRIC JACKET DETAIL
N.T.S.



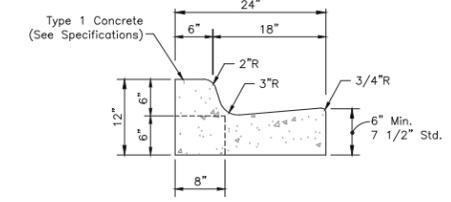
FILTER FABRIC WRAP ON GROUTED PIPE TO STRUCTURE JOINT
N.T.S.



FLUME DETAIL WITH ENERGY DISSIPATER
N.T.S.



FDOT INDEX 300 TYPE \"D\" CURB
N.T.S.

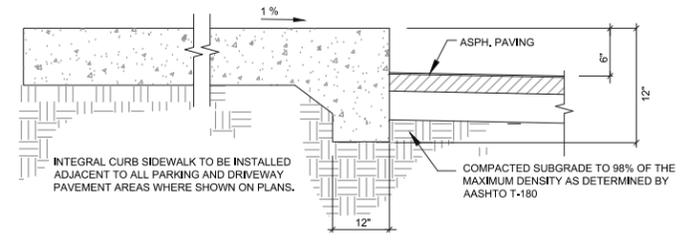


FDOT INDEX 300 TYPE F CURB & GUTTER
N.T.S.

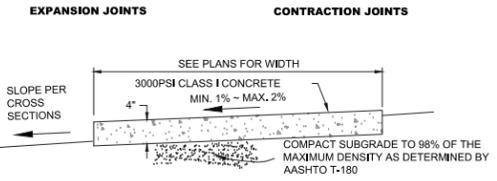
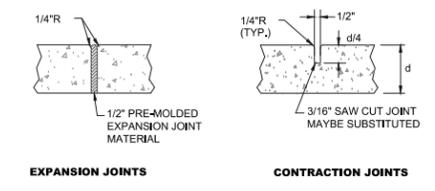
NOTES:
1. SAW CUT CONTRACTION JOINTS ON 10' CENTERS MAX. WITHIN 48 HOURS AFTER POURING CURB.
2. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 520 AND FDOT ROADWAY & TRAFFIC DESIGN STANDARDS INDEX NUMBER 300.

NOTES:
1. SAW CUT CONTRACTION JOINTS ON 10' CENTERS MAX. WITHIN 48 HOURS AFTER POURING CURB.
2. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 520 AND FDOT ROADWAY & TRAFFIC DESIGN STANDARDS INDEX NUMBER 300.
3. WHEN USED ON HIGH SIDE OF ROAD, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6\", UNLESS OTHERWISE SHOWN ON PLANS.

NOTES:
1. Saw cut contraction joints on 10' centers max. within 48 hours after pouring curb.
2. All materials and construction shall be in accordance with FDOT Specifications Section 520 and FDOT Roadway & Traffic Design Standards index number 300.

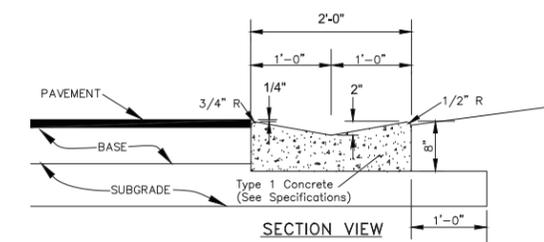


INTEGRAL CURB SIDEWALK
N.T.S.

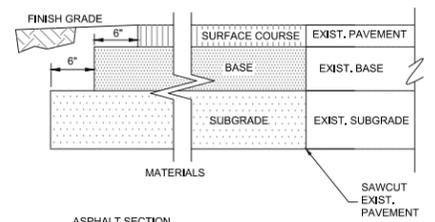


TYPICAL SIDEWALK
N.T.S.

NOTES:
1. PROVIDE EXPANSION JOINTS 120' CENTER TO CENTER, AT PC & PT OF CURVES, JUNCTIONS OF EXISTING & NEW SIDEWALKS, AND WHERE SIDEWALK ABUTS CURBS, DRIVEWAYS & SIMILAR STRUCTURES.
2. PROVIDE CONTRACTION JOINTS 5' CENTER TO CENTER, SOD SHALL BE PLACED BELOW EDGE OF SIDEWALK TO ALLOW DRAINAGE.



2'-0\"/>



TYPICAL PAVEMENT SECTION
N.T.S.

ASPHALT SECTION
SURFACE COURSE: 2\"/>



DATE:	MDR
DRAWN BY:	CC
DESIGNED BY:	JWC
CHECKED BY:	JWC
PROJECT NO.:	1669
HORIZ. SCALE:	N/A
VERT. SCALE:	N/A
CADD FILE:	Details

NO.	DATE	BY	REVISIONS



TOWN PLACE
ST LUCIE COUNTY, FLORIDA
PAVING, GRADING, AND DRAINAGE DETAILS

Joseph W. Capra
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

GENERAL NOTES

- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGE OR DEVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL CONTACT ENGINEER OF RECORD, THE APPROPRIATE GOVERNMENTAL JURISDICTIONAL AGENCY AND ALL OTHER CONCERNED UTILITIES AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS
- THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER AND THE OWNER PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- PROJECT SUPERINTENDENT: THE CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERINTENDENT TO REMAIN ON THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. THE SUPERINTENDENT SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETINGS. THE CONTRACTOR SHALL NOTIFY THE LOCAL UTILITY COMPANY BY LETTER PRIOR TO THE PRE-CONSTRUCTION MEETING APPOINTING THE SUPERINTENDENT FOR THIS PROJECT INCLUDING A FORMAL RESUME SHOWING QUALIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE HIS COMPLETE FAMILIARITY WITH THE PROJECT SITE AND COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE. BY SUBMITTAL OF A BID FOR THIS PROJECT, THE CONTRACTOR ACKNOWLEDGES HIS COMPLETE UNDERSTANDING AND RESPONSIBILITIES WITH RESPECT TO THE CONSTRUCTION ACTIVITIES REQUIRED UNDER THE SCOPE OF THIS PROJECT.
- THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS CONTRACT AS ENHANCED BY THE LEGISLATURE OF THE STATE OF FLORIDA TO BE IN EFFECT AS OF OCTOBER 1, 1990.
- AS-BUILT PLANS: THE CONTRACTOR SHALL PROVIDE 6 SETS OF PRINTS / 1 DIGITAL FILE IN AutoCAD FORMAT. DRAWINGS SHALL BEAR THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE SURVEYOR AND SHALL BE SUBMITTED AFTER THE COMPLETION OF CONSTRUCTION, BUT PRIOR TO FINAL APPROVAL. THE AS-BUILT SURVEY SHALL BE PREPARED IN PLAN AND PROFILE FORMAT BY A LICENSED PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA AND SHALL COMPLY WITH APPLICABLE PROVISIONS OF THE FLORIDA ADMINISTRATIVE CODE AND CHAPTER 472 OF THE FLORIDA STATUTES. THE DRAWINGS SHALL BE AT A SCALE COMPARABLE TO THE DESIGN DRAWINGS PREPARED BY THE ENGINEER AND SHALL REFERENCE THE BASE LINE OF SURVEY APPEARING ON THE ENGINEERING DRAWINGS. THE HORIZONTAL AND VERTICAL LOCATION OF THE ROADWAYS, DRAINAGE FACILITIES AND ALL APPURTENANCES SHALL BE ACCURATELY DEPICTED TO SCALE AND SHALL BE IDENTIFIED RELATIVE TO THE BASE LINE AND TO READILY IDENTIFIABLE PERMANENT OR SEMI-PERMANENT REFERENCE POINTS EXISTING AFTER THE COMPLETION OF CONSTRUCTION. LOCATIONS SHALL BE SHOWN FOR ALL FITTINGS, VALVES, HYDRANTS, MANHOLES, SAMPLE POINTS, AIR RELEASES, ETC., BOTH HORIZONTAL AND VERTICAL, AND THE LOCATION OF THE MAIN AT EACH BASELINE STATION AS SHOWN ON THE PLANS (100 FEET MAXIMUM) BOTH HORIZONTAL AND VERTICAL. UNDERGROUND FACILITIES (I.E. DRAINAGE, GAS, ELECTRIC, TELEPHONE, ETC.) CROSSING THE MAINS SHALL BE ACCURATELY SHOWN BOTH HORIZONTAL AND VERTICAL AND SHALL IDENTIFY SIZE, TYPE, FACILITY, MATERIAL AND CLEARANCE. ALL INFORMATION SHALL BE BASED UPON MEASUREMENTS AND OBSERVATIONS MADE IN THE FIELD BY THE SURVEYOR CERTIFYING THE SURVEY OR BY PERSONNEL UNDER HIS EMPLOYMENT, DIRECTION AND SUPERVISION. THE COST FOR PREPARING AND MAINTAINING THE AS-BUILT PLANS SHALL BE INCIDENTAL TO THE CONSTRUCTION COST.
- THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE SCHEDULE OF WORK, INCLUDING A HIGHLIGHTED PLAN SHOWING THE ORDER OF CONSTRUCTION WHICH WILL FACILITATE MAINTAINING EXISTING SERVICES DURING CONSTRUCTION. THIS PLAN SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION MAINTENANCE OF TRAFFIC AND STAGING PLAN.
- ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- ALL TELEPHONE, FPL, LOCAL CABLE AND ALL LOCAL UTILITY COMPANY LOCATIONS SHOWN ARE TAKEN FROM INFORMATION PROVIDED BY THAT UTILITY COMPANY. THESE LOCATIONS HAVE NOT BEEN VERIFIED IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR TO EXPOSE ALL CROSSINGS WITH BELL SOUTH, CATV AND FLORIDA POWER AND LIGHT CONDUTS PRIOR TO BEGINNING CONSTRUCTION AND DELIVERY OF PIPE. THE CONTRACTOR IS TO USE EXTREME CAUTION WITHIN THE VICINITY OF PRIVATE UTILITY FACILITIES. THE CONTRACTOR WILL REQUEST THE PRESENCE OF A PRIVATE UTILITY REPRESENTATIVES DURING CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES. A PROFILE OF THE PRIVATE UTILITY FACILITIES ARE NOT PROVIDED IN THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE PRIVATE UTILITIES AND OBTAINING THE APPROVED LOCATION OF THESE FACILITIES.
- ANY NGVD 29 AND NAVD 88 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHOULD NOTIFY THE CITY SURVEYOR.

CITY OF PORT ST. LUCIE
PUBLIC WORKS DEPT.
CITY HALL ANNEX BLDG. B
121 SW PORT ST. LUCIE BLVD.
PORT ST. LUCIE, FLORIDA 34984
772-871-5700

- TEMPORARY BENCHMARK REFERENCED NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- CONTRACTOR TO UTILIZE "APPROVED FOR CONSTRUCTION" PLANS ONLY.
- SHOP DRAWINGS FOR ALL STRUCTURES SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING.
- SHOP DRAWINGS ARE REQUIRED ON ALL STRUCTURES. THE ENGINEER REQUIRES FIVE (5) BUSINESS DAYS TO REVIEW SHOP DRAWINGS AFTER RECEIPT.
- CONCRETE SHALL BE CLASS 13,000 PSI MINIMUM COMPRESSIVE STRENGTH UNLESS NOTED OTHERWISE. REINFORCING SHALL BE GRADE 60 DEFORMED STEEL BARS IN ACCORDANCE ASTM A-615.
- CONTRACTOR SHALL PROTECT ALL EXISTING ABOVE OR UNDERGROUND STRUCTURES, LANDSCAPE FEATURES, TREES AND UTILITIES NOT SHOWN ON THE PLANS TO BE REMOVED BY CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITY.
- ALL PROPOSED UTILITY MATERIALS, CONSTRUCTION METHODS, TESTING AND DISINFECTION SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT 2010 STANDARD AND AWWA CURRENT STANDARD.
- ALL HORIZONTAL AND VERTICAL SURVEY CONTROL POINTS SHALL BE PROTECTED AND UNDISTURBED. IN THE EVENT THAT A CONTROL POINT IS DISTURBED OR DESTROYED, THE POINT SHALL BE RE-ESTABLISHED BY A FLORIDA REGISTERED LAND SURVEYOR. IF THE CONSTRUCTION OCCURS IN THE CITY OF PORT ST. LUCIE, THE METHOD TO RE-ESTABLISH THE POINT SHALL BE APPROVED BY THE CITY ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

PAVING, GRADING AND DRAINAGE NOTES

- ALL AREAS SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION THIS SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, GRASS, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF ONE (1) FOOT. ITEMS DESIGNATED TO REMAIN, TO BE RELOCATED OR TO BE ADJUSTED SHALL BE SO DESIGNATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS MUST INCLUDE, BUT NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND BASE DENSITIES AT UTILITY CROSSINGS, STORM SEWER MANHOLES, INLETS AND STRUCTURES. TEST SHALL INCLUDE ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC. DENSITY TESTS SHALL BE PERFORMED AT THREE (3) LOCATIONS AROUND ANY STRUCTURE. BEGIN TESTING IN THE FIRST FOOT ABOVE THE BOTTOM OF THE STRUCTURE AND THEN EVERY TWO FEET TO WITHIN TWO FEET OF THE FINISH GRADE.
- ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS AND PLYWOOD OR PLASTIC COVERS

- OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEMS SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE. ALL CONCRETE SHALL BE A MINIMUM 3,000 PSI.
- ALL PROPOSED ELEVATIONS REFER TO FINISHED GRADES.
- THE CONTRACTOR MUST OBTAIN A WATER USE PERMIT PRIOR TO CONSTRUCTION DEWATERING UNLESS THE WORK QUALIFIES FOR A GENERAL PERMIT PURSUANT TO SUBSECTION 40E-20.302(4), F.A.C.

STORM SEWER NOTES

- STANDARD SEPARATION FOR ALL WATER AND/OR WASTEWATER MAINS, HORIZONTAL AND VERTICAL, SHALL BE PER FDEP REQUIREMENTS, PROVISIONS OF F.A.C RULE 62.604 AND TEN STATES STANDARD.
- ALL DISTURBED OUTFALL DRAINAGE AREAS SHALL BE SODDED UPON COMPLETION OF GRADING AFTER AS-BUILT GRADE ELEVATIONS ARE APPROVED BY THE ENGINEER.
 - PRIOR TO FINAL PAYMENT OF RETENTION, DETENTION AND DRAINAGE DITCH QUANTITIES, ALL SLOPES AND SWALES SHALL BE SODDED TO AVOID EROSION.
 - THERE IS TO BE NO OFF-SITE HAULING WITHOUT PRIOR APPROVAL AND ALL EXCAVATED MATERIAL SHALL BE USED ON-SITE.
 - THE CONTRACTOR SHALL CONSTRUCT THE STORMWATER MANAGEMENT SYSTEM IN A MANNER SO AS TO MINIMIZE ANY ADVERSE IMPACTS OF THE WORKS ON FISH, WILDLIFE, NATURAL ENVIRONMENTAL VALUES AND WATER QUALITY ON OR OFF-SITE. THE CONTRACTOR SHALL INSTITUTE NECESSARY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES TO REDUCE EROSION, TURBIDITY, NUTRIENT LOADING AND SEDIMENTATION IN THE RECEIVING WATERS.
 - WITHIN THIRTY (30) DAYS AFTER COMPLETION OF CONSTRUCTION OF THE SURFACE WATER MANAGEMENT SYSTEM, THE CONTRACTOR SHALL ASSIST THE DESIGN ENGINEER TO PROVIDE A WRITTEN STATEMENT OF COMPLETION AND CERTIFICATION BY A FLORIDA PROFESSIONAL ENGINEER. THESE STATEMENTS MUST SPECIFY THE ACTUAL DATE OF CONSTRUCTION COMPLETION AND MUST CERTIFY THAT ALL FACILITIES HAVE BEEN CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. THE CONSTRUCTION COMPLETION CERTIFICATION MUST INCLUDE, AT A MINIMUM EXISTING ELEVATIONS, LOCATIONS AND DIMENSIONS OF THE COMPONENTS OF THE SURFACE WATER MANAGEMENT FACILITIES. ADDITIONALLY, IF DEVIATIONS FROM THE APPROVED DRAWINGS ARE DISCOVERED DURING THE CERTIFICATION PROCESS, THE CERTIFICATION MUST BE ACCOMPANIED BY A COPY OF THE APPROVED PERMIT DRAWINGS WITH DEVIATIONS NOTED. SEE ALSO AS-BUILT REQUIREMENTS.
 - A STABLE PERMANENT AND ACCESSIBLE ELEVATION REFERENCE SHALL BE ESTABLISHED ON OR WITHIN ONE HUNDRED (100) FEET OF ALL PERMITTED DISCHARGE STRUCTURES NO LATER THAN THE SUBMISSION OF THE CERTIFICATION TO THE WATER MANAGEMENT DISTRICT. THE LOCATION OF THE ELEVATION REFERENCE MUST BE NOTED ON OR WITHIN THE CERTIFICATION REPORT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION OR SHOALING OF THE WATER QUALITY MANAGEMENT SYSTEM.
 - INLETS (425/430): INCLUDES THE LIST OF MATERIALS/INSTALLATION/DEWATERING STABILIZATION/AS-BUILT SURVEYING/TESTING. ALL STRUCTURES WILL REQUIRE THREE (3) COMPACTION TESTS AT DIFFERENT LOCATIONS AND UNDER STRUCTURES.
 - PIPE CULVERTS AND STORM SEWERS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SECTION 430 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 - HDPE (HIGH DENSITY POLYETHYLENE) CULVERT SHALL BE N-12 INSTALLED PER MANUFACTURER RECOMMENDATIONS. MANUFACTURER IS ADS (ADVANCED DRAINAGE SYSTEMS, INC.) AIR ENTRENCHED PIPE.
 - REINFORCED CONCRETE PIPE SHALL BE ASTM C-76 CLASS III IN ACCORDANCE WITH SECTION 941 OF THE FDOT STANDARD SPECIFICATIONS.

CULVERT LEGEND:

- RCP - REINFORCED CONCRETE PIPE
- ERCP - ELLIPTICAL REINFORCED CONCRETE PIPE
- HDPE - HIGH DENSITY POLYETHYLENE (AIR ENTRENCHED)
- CAP - CORRUGATED ALUMINUM PIPE
- MES - MITERED END SECTION

FILTER FABRIC

THE CONTRACTOR SHALL WRAP ALL STORM PIPE JOINTS. CONSTRUCTION SHALL BE PER F.D.O.T. INDEX NO. 280 WITH WOVEN GEOTEXTILE TYPE D-3 (F.D.O.T. INDEX NO. 199), SECURED W/STRAPPING. ALL JOINTS SHALL BE WRAPPED FOR A MINIMUM OF 12 INCHES FROM THE BAND OR JOINT OR BELL AND SPIGOT AS APPLICABLE.

DEWATERING

STORM SEWER PIPES AND STRUCTURES AND UTILITIES SHALL BE LAID "IN THE DRY", UNLESS OTHERWISE APPROVED IN WRITING BY THE UTILITY AND ENGINEER OF RECORD. THE CONTRACTOR, AT NO DIRECT COST TO THE OWNER, SHALL PERFORM ALL DEWATERING ACTIVITY. TRENCH EXCAVATIONS SHALL BE DEWATERED BY USING ONE OR MORE OF THE FOLLOWING METHODS. SOCK DRAINS, WELL POINT SYSTEM, SUMPS WITH PUMPS OR OTHER METHOD(S) AS APPROVED BY THE ENGINEER. DEWATERING SYSTEMS SHALL BE UTILIZED IN ACCORDANCE WITH GOOD STANDARD PRACTICE AND MUST BE EFFICIENT ENOUGH TO LOWER THE WATER LEVEL IN ADVANCE OF THE EXCAVATION AND MAINTAIN IT CONTINUOUSLY TO KEEP THE TRENCH BOTTOM AND SIDES FIRM AND DRY. IF THE MATERIAL ENCOUNTERED AT TRENCH GRADE IS SUITABLE FOR THE PASSAGE OF WATER WITHOUT DESTROYING THE SIDES OR UTILITY FOUNDATION OF THE TRENCH, SUMPS MAY BE PROVIDED AT INTERVALS AT THE SIDE OF THE MAIN TRENCH EXCAVATION, WITH PUMPS USED TO LOWER THE WATER LEVEL BY TAKING THEIR SUCTION FROM SAID SUMPS. DISCHARGE FROM DEWATERING SHALL BE DISPOSED OF IN SUCH A MANNER THAT IT WILL NOT INTERFERE WITH NORMAL DRAINAGE OF THE AREA IN WHICH THE WORK IS BEING PERFORMED, CREATE A PUBLIC NUISANCE OR FORM PONDING. ALL DISCHARGE SHALL BE IN ACCORDANCE WITH ANY SFWMD ISSUED PERMITS. THE OPERATIONS SHALL NOT CAUSE INJURY TO ANY PORTION OF THE WORK COMPLETED OR IN PROGRESS OR TO THE SURFACE OF STREETS OR TO PRIVATE PROPERTY. THE ENGINEER OF RECORD AND NECESSARY REGULATORY AGENCIES, PRIOR TO CONSTRUCTION, SHALL APPROVE THE PROPOSED DEWATERING METHOD(S) AND SCHEDULE. ADDITIONALLY, WHERE PRIVATE PROPERTY WILL BE INVOLVED, THE CONTRACTOR SHALL OBTAIN ADVANCE PERMISSION FROM THE PROPERTY OWNER.

OBSTRUCTIONS

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME ACQUAINTED WITH EXISTING CONDITIONS AND TO LOCATE STRUCTURES AND UTILITIES ALONG THE PROPOSED UTILITY ALIGNMENT IN ORDER TO AVOID CONFLICTS. WHERE ACTUAL CONFLICTS ARE UNAVOIDABLE, WORK SHALL BE COORDINATED WITH THE FACILITY OWNER AND PERFORMED SO AS TO CAUSE AS LITTLE INTERFERENCE AS POSSIBLE WITH THE SERVICE RENDERED BY THE FACILITY DISTURBED. ALL AFFECTED UTILITIES SHALL BE NOTIFIED PRIOR TO EXCAVATION IN THEIR VICINITY.

SOD

THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND. ALL SODDED AREAS SHALL BE GRASSED AS SPECIFIED ON PLANS AND SURVIVAL GUARANTEED FOR NINETY DAYS FROM DATE OF REPLACEMENT.

GROUNDWATER

HEAVY RAINFALL AND/OR A HIGH WATER TABLE MAY OCCUR BEFORE THE EARTHWORK COMMENCES, OR DURING THE EARTHWORK OPERATION. WHEN THESE CONDITIONS OCCUR AND THE SITE PREPARATION CANNOT BE ACHIEVED AS SPECIFIED, AN EXCAVATION OF THE EXISTING CONDITIONS SHOULD BE CONDUCTED AND THE SPECIFICATIONS REVISED ACCORDINGLY. THE DEWATERING FOR THE SITE MUST REMAIN ON SITE. NO ADDITIONAL DISCHARGE ALLOWED EXCEPT THROUGH EXISTING CONTROL STRUCTURE.

SOIL EROSION PLAN

- NO POLLUTION OR EROSION CAUSED BY THIS PROJECT WILL BE ALLOWED IN THE STORMWATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL INSTALL ANY DEVICES NECESSARY TO PREVENT POLLUTION OR EROSION. THE COST OF POLLUTION AND EROSION CONTROL SHALL BE INCIDENTAL TO THE COST OF THE CONSTRUCTION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A SPECIFIC SOIL EROSION PLAN. IN GENERAL, THE SOIL EROSION PLAN SHALL REQUIRE THAT ALL ON-SITE SOILS WILL REMAIN ON-SITE AND WILL NOT ERODE INTO THE ADJACENT ROADSIDE SWALES, ADJACENT PROPERTIES OR RETENTION DITCHES. ALL EXISTING SWALES SHALL REMAIN SODDED DURING CONSTRUCTION. THE CONTRACTOR SHALL SCARIFY ONLY AS NECESSARY TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL SCARIFY AREAS TO PLACE VARIOUS PIPE WORK. AFTER PLACEMENT OF THE PIPE, THESE TRENCHES SHALL BE BACKFILLED AND COMPACTED TO A 98% DENSITY. PRIOR TO DISCHARGE FROM THE SITE, SILTATION BARRIERS AND HAY BALES SHALL BE UTILIZED AS PER FDOT INDEX 102. THE DRAINAGE WHICH OUTFALLS TO THE RETENTION AREAS SHALL BE STABILIZED AND SODDED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION. ANY DEWATERING OR PUMPING OF WATER INTO THE ROADSIDE SWALES OR RETENTION SWALES SHALL BE STAKED WITH BALED HAY ANY SILTATION FENCES TO AVOID FILLING THESE AREAS. UPON COMPLETION OF THE SITE WORK, ALL AREAS SHALL BE SODDED TO AVOID EROSION. CONTRACTOR IS REQUIRED TO COMPLY WITH ALL STATE WATER QUALITY CRITERIA. SPECIFICALLY, NO OFF-SITE DISCHARGES WILL BE ALLOWED WHICH EXCEED THE STATE TURBIDITY CRITERIA.

WATER QUALITY NOTES

- THE CONTRACTOR MUST MAINTAIN A COPY OF THE LATEST LOCAL WATER MANAGEMENT DISTRICT SURFACE WATER PERMIT, COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS AND PERMIT MODIFICATIONS IN GOOD CONDITIONS AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY DISTRICT REPRESENTATIVES. THE CONTRACTOR SHALL REVIEW THE COMPLETE PERMIT PRIOR TO COMMENCEMENT OF THE ACTIVITY AUTHORIZED BY THE PERMIT.
- ALL ACTIVITIES SHALL BE IMPLEMENTED AS SET FORTH IN THE PLANS, SPECIFICATIONS AND PERFORMANCE CRITERIA AS APPROVED BY LOCAL SURFACE WATER PERMIT. ANY DEVIATION FROM THE PERMITTED ACTIVITY AND THE CONDITIONS FOR UNDERTAKING THAT ACTIVITY SHALL BE CONSIDERED A VIOLATION OF THE PERMIT. PRIOR TO ANY WORK, A NOTICE OF PENDING CONSTRUCTION NOTIFICATION MUST BE SUBMITTED TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT.
- THE LOCAL WATER MANAGEMENT DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, MUST BE GRANTED PERMISSION TO ENTER, INSPECT AND OBSERVE THE SYSTEM TO INSURE CONFORMITY WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE PERMIT.
- PRIOR TO AND DURING CONSTRUCTION, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES (BEST MANAGEMENT PRACTICES) REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF STATE WATER QUALITY STANDARDS. ALL PRACTICES MUST BE IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS IN CHAPTER 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL. A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATIONS 1988), WHICH ARE HEREBY INCORPORATED BY REFERENCE, UNLESS A PROJECT SPECIFIC EROSION AND SEDIMENT CONTROL PLAN IS APPROVED AS PART OF THE SFWMD PERMIT, IN WHICH CASE THE PRACTICES MUST BE IN ACCORDANCE WITH THE PLAN. IF SITE SPECIFIC CONDITIONS REQUIRE ADDITIONAL MEASURES DURING ANY PHASE OF CONSTRUCTION OR OPERATION TO PREVENT EROSION OR CONTROL SEDIMENT, BEYOND THOSE SPECIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES AS NECESSARY, IN ACCORDANCE WITH THE SPECIFICATIONS IN CHAPTER 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL. A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION 1988). THE CONTRACTOR SHALL CORRECT ANY EROSION OR SHOALING THAT CAUSES ADVERSE IMPACTS TO THE WATER RESOURCES.
- WITHIN 30 DAYS AFTER COMPLETION OF THE STORMWATER SYSTEM, THE CONTRACTOR MUST ASSIST IN SUBMITTING TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT THE FOLLOWING: DISTRICT FORM EN-45 (AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL), SIGNED AND SEALED BY AN APPROPRIATE PROFESSIONAL REGISTERED IN THE STATE OF FLORIDA AND TWO SETS OF AS-BUILT DRAWINGS (WHEN A) REQUIRED BY A SPECIAL CONDITION OF THIS PERMIT; (B) THE PROFESSIONAL USES AS-BUILT DRAWINGS TO SUPPORT THE AS-BUILT CERTIFICATION; OR (C) WHEN THE COMPLETED SYSTEM SUBSTANTIALLY DIFFERS FROM PERMITTED PLANS. THIS SUBMITTAL WILL SERVE TO NOTIFY THE DISTRICT STAFF THAT THE SYSTEM IS READY FOR INSPECTION AND APPROVAL.
- STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- THE STORMWATER MANAGEMENT SYSTEM MUST BE COMPLETE IN ACCORDANCE WITH THE PERMITTED PLANS AND PERMIT CONDITIONS PRIOR TO THE INITIATION OF THE PERMITTED USE OF SITE INFRASTRUCTURE. THE SYSTEM MUST BE COMPLETED IN ACCORDANCE WITH THE PERMITTED PLANS AND PERMIT CONDITIONS PRIOR TO TRANSFERRING RESPONSIBILITY FOR OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM TO A RESPONSIBLE ENTITY.
- IF DEWATERING IS TO OCCUR DURING ANY PHASE OF CONSTRUCTION OR THEREAFTER AND THE SURFACE WATER PUMPS, WELLS OR FACILITIES ARE CAPABLE OF WITHDRAWING ONE MILLION GALLONS OF WATER PER DAY OR AVERAGE OF 100,000 GALLONS PER DAY OR MORE OVER A YEAR AND ANY DISCHARGE IS TO BE OFF-SITE, THE CONTRACTOR MUST APPLY FOR AND OBTAIN A CONSUMPTIVE USE PERMIT (40C-2) FROM THE DISTRICT IF ADDITIONAL INFORMATION OR APPLICATION MATERIALS IS NEEDED. THE DEWATERING FOR THE SITE MUST REMAIN ON SITE. NO ADDITIONAL DISCHARGE ALLOWED EXCEPT THROUGH EXISTING CONTROL STRUCTURE.
- MONITORING SHALL BE PERFORMED DAILY. SAMPLING TO TAKE PLACE IN WETLAND MEASURING FOR TURBIDITY DOWNSTREAM OF DISCHARGE. WHEN TURBIDITY EXCEEDS 29 NTUS, WORK MUST CEASE. MONITORING TO BE PERFORMED ON DAYS WHEN EXISTING OUTFALL STRUCTURE DISCHARGES TO THE OUTFALL.

TURBIDITY NOTE

THE CONTRACTOR SHALL PLACE TURBIDITY BARRIERS AT ALL OUTFALLS PRIOR TO CONSTRUCTION. ALL CUT/FILL WILL BE RELOCATED WITHIN THE EXISTING SITE AND THEREFORE HAULING OF MATERIAL WILL NOT BE REQUIRED. CONTRACTOR SHALL INSTALL TURBIDITY CONTROL MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN SAID CONTROLS IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PERIOD, ASSURING THAT TURBID DISCHARGES FROM THE PROJECT TO PROTECTED WATERS AND WETLANDS DO NOT EXCEED 29 NTUS ABOVE BACKGROUND LEVELS AND REMOVE SAID CONTROLS AFTER COMPLETION OF CONSTRUCTION.

	ENGINEER OF RECORD INSPECTION REQUIREMENTS							
	F.B.V.		DENSITY		L.B.R.		THICKNESS	
	MAX SPACING	MIN SPACING	MAX SPACING	MIN SPACING	MAX SPACING	MIN SPACING	MAX SPACING	MIN SPACING
	LINEAR SQUARE FEET	LINEAR SQUARE FEET	LINEAR SQUARE FEET	LINEAR SQUARE FEET	LINEAR SQUARE FEET	LINEAR SQUARE FEET	LINEAR SQUARE FEET	LINEAR SQUARE FEET
COMPACTED OR STABILIZED GRADE	200	5,000	200	5,000	200	5,000	300	10,000
ROCK BASE	----	----	300	10,000	300	10,000	300	10,000
SHELL ROCK	----	----	300	10,000	----	----	300	10,000
ASPHALT	----	----	----	----	----	----	PER INSP.	PER INSP.

ALL TESTING SHALL BE TAKEN IN A STAGGERED SAMPLING PATTERN FROM A POINT 12" INSIDE THE LEFT EDGE OF THE ITEM TESTED, TO THE CENTER, TO A POINT INSIDE OF THE RIGHT EDGE

ENGINEER OF RECORD INSPECTION REQUIREMENTS CONTRACTOR TO CALL CONTRACT ENGINEER OF RECORD 48 HOURS ADVANCE FOR FOLLOWING INSPECTIONS:

- PRECONSTRUCTION MEETING
- DRAINAGE STRUCTURE / PIPE
- SIDEWALK FORMS
- PAVEMENT SUBGRADE
- PAVEMENT BASE
- ASPHALT / CONCRETE PLACEMENT
- FINAL

EARTHWORK AND RELATED OPERATIONS

- THE CONTRACTOR SHALL PROVIDE A QUALITY CONTROL PLAN FOR MONITORING OF ALL EARTHWORK AND RELATED OPERATIONS. THE QUALITY CONTROL PLAN SHALL INCLUDE AS A MINIMUM, ALL TESTS THAT WILL BE PERFORMED INCLUDING THE PROPOSED TEST FREQUENCIES, ALL MATERIAL SOURCES, THE NAME AND BACKGROUND OF THE PERSON THAT THE CONTRACTOR WILL DESIGNATE AS THE CONTRACTORS QUALITY CONTROL MANAGER, THE NAME AND QUALIFICATIONS OF THE TESTING LABORATORY THAT WILL BE PERFORMING QUALITY CONTROL TESTING AND THE NAMES AND QUALIFICATIONS OF THE TESTING LABORATORY PERSONNEL THAT WILL BE PERFORMING THE QUALITY CONTROL TESTING.
- THE TESTING LABORATORY THAT IS RETAINED TO PERFORM THE CONTRACTOR'S QUALITY CONTROL TESTING MUST BE CERTIFIED BY A RECOGNIZED QUALIFYING AGENCY SUCH AS FDOT, CMEC OR AASHTO FOR THE TYPE OF WORK TO BE PERFORMED.
- THE QUALITY CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF ANY EARTHWORK OR RELATED OPERATION.
- UTILIZATION OF MATERIALS WITHIN THE ROADWAY CROSS SECTION SHALL BE IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION) INDEX NO. 505 UNLESS OTHERWISE SHOWN ON THE PLANS.
- IF THE EXISTING FILL IS CLASSIFIED AS A-2-4 BASED ON AASHTO M 145 CRITERIA, THE MAXIMUM PERMISSIBLE MOISTURE CONTENT SHALL BE 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

EXCAVATION FOR STRUCTURES AND PIPES

- EARTHWORK AND RELATED OPERATIONS PERFORMED ON STRUCTURES AND PIPES SHALL BE CONDUCTED IN ACCORDANCE WITH SECTIONS 125 AND OTHER APPLICABLE SECTIONS OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) UNLESS OTHERWISE SHOWN ON THE PLANS.
- REMOVAL OF ORGANIC OR PLASTIC MATERIAL SHALL BE PERFORMED AT THE DIRECTION OF THE ENGINEER UNLESS OTHERWISE SHOWN ON THE PLANS.
- UTILIZATION OF MATERIALS WITHIN THE ROADWAY CROSS SECTION SHALL BE AS DIRECTED BY THE ENGINEER UNLESS OTHERWISE SHOWN ON THE PLANS.

PIPE AND STRUCTURE BACKFILL

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF EXCAVATED SOILS MEET THE REQUIREMENTS OF THE PROJECT PLANS AND SPECIFICATIONS RELATIVE TO MATERIAL CLASSIFICATION. PIPE AND STRUCTURE BACKFILL MATERIAL SHALL BE LIMITED TO MATERIAL CLASSIFIED AS A-1, A-3 AND A-2-4 IN ACCORDANCE WITH AASHTO M-145 AND SHALL BE COMPACTED IN ACCORDANCE WITH F.D.O.T. SECTION 125 REQUIREMENTS.
- IF THE BACKFILL MATERIAL IS CLASSIFIED AS A-2-4 BASED ON AASHTO M 145 CRITERIA, THE MAXIMUM PERMISSIBLE MOISTURE CONTENT SHALL BE 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

MAINTENANCE OF TRAFFIC

- ALL M.O.T. SHALL BE IN ACCORDANCE WITH FDOT INDEX 600 SERIES.
- THE CONTRACTOR SHALL PREPARE A PROJECT SPECIFIC M.O.T. PLAN FOR THE PROPOSED WORK AND SUBMIT FOR REVIEW AND APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO COMMENCING WORK. IMPLEMENTATION OF M.O.T. PLAN MAY NOT COMMENCE UNTIL AFTER APPROVAL IS GRANTED.

SEPARATION BETWEEN PSLUSD MAINS AND OTHER UTILITIES

THE MINIMUM SEPARATION BETWEEN PSLUSD MAINS AND OTHER UTILITIES, AS MEASURED FROM THE OUTSIDE OF EACH PIPE, SHALL BE AS FOLLOWS:

- WATER MAINS SHALL BE LOCATED A MINIMUM OF 10' FROM A GRAVITY SEWER, FORCE MAIN AND RECLAIMED WATER MAIN. THE VERTICAL SEPARATION SHALL BE AT LEAST 18" WITH THE WATER MAIN CROSSING OVER THE OTHER PIPES.
- ALL PSLUSD PIPES SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 5' FROM ALL OTHER UNDERGROUND UTILITIES AND A VERTICAL SEPARATION OF AT LEAST 18".
- WHEN GRAVITY SEWER IS TO BE INSTALLED PARALLEL TO A DRAINAGE PIPE GREATER THAN 15" IN DIAMETER, A MINIMUM HORIZONTAL SEPARATION OF 15" SHALL BE MAINTAINED. A GREATER SEPARATION MAY BE REQUIRED FOR DRAINAGE PIPES LARGER THAN 24" IN DIAMETER, AS DETERMINED BY PSLUSD.
- WHEN FORCE MAIN OR RECLAIMED WATER MAIN IS TO BE INSTALLED PARALLEL TO A DRAINAGE PIPE, A MINIMUM HORIZONTAL SEPARATION OF 8' SHALL BE MAINTAINED. A GREATER SEPARATION MAY BE REQUIRED FOR DRAINAGE PIPES LARGER THAN 48" IN DIAMETER.

UTILITY COMPANIES

48 HOURS BEFORE DIGGING CALL SUNSHINE STATE ONE CALL CENTER. TOLL FREE 1-800-432-4770

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PORT ST. LUCIE, FL. 34952
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STUART, FL 34994
561-692-9010

AT&T
3380 OKEECHOBEE ROAD,
RM 237
FORT PIERCE, FL 34947
772-460-4448

FLORIDA CITY GAS
1304 SW BAYSHORE BOULEVARD
PORT ST LUCIE, FL 34983
800-993-7546

CITY OF PORT ST. LUCIE
UTILITIES SYSTEMS
DEPARTMENT
900 SE OGDAN LANE
PORT ST. LUCIE, FLORIDA
34983
772-873-6400

ENVIRONMENTAL

HOBE SOUND ENVIRONMENTAL CONSULTANTS, INC.
9512 SE DUNCAN STREET
HOBE SOUND, FL 33455
772-545-3676

SURVEYORS:

LAVENTURE & ASSOCIATES, INC.
774 WEST MIDWAY ROAD
FORT PIERCE, FL 34982
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ANDERSEN ANDRE
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573 SW BILTMORE STREET
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CITY OF PORT ST. LUCIE

PUBLIC WORKS DEPT.
CITY HALL ANNEX BLDG. B
121 SW PORT ST. LUCIE BLVD.
PORT ST. LUCIE, FLORIDA
34984
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Fax: (772) 892-2434



DATE:	MDR
DRAWN BY:	CG
DESIGNED BY:	JWC
CHECKED BY:	N/A
PROJECT No.:	1089
HORIZ. SCALE:	N/A
VERT. SCALE:	N/A
CAD FILE#:	1089-1.dwg

NO.	DATE	BY	REVISIONS

SCALE VERIFICATION
1" = 10'
SOLID BARS IS EQUAL TO ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

TOWN PLACE PORT ST LUCIE, FL GENERAL NOTES

Printed Date:

JOB No.: 1669
SHEET

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