I-75 North Corridor Master Plan

Master Plan Limits: I-75 from North River Road to Moccasin Wallow Road

FINAL – Existing Conditions Report

OCTOBER 2021

PREPARED FOR:

FLORIDA DEPARTMENT OF TRANSPORTATION – DISTRICT ONE

PREPARED BY:

HDR

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FLORIDA DEPARTMENT OF TRANSPORTATION – DISTRICT ONE
801 N. BROADWAY AVENUE, BARTOW, FL 33830
www.SWFLINTERSTATES.com

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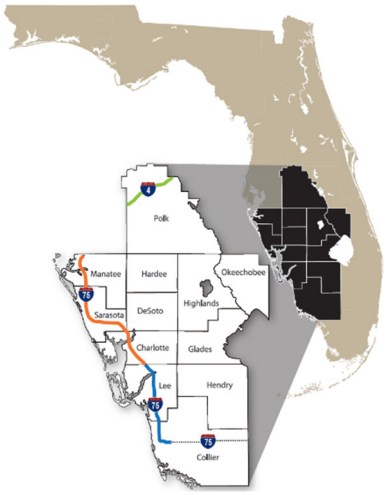
Acronyms and Abbreviations

AADT	Annual Average Daily Traffic
AASHTO	American Association of State Highway and Transportation Officials
ADT	Average Daily Traffic
APE	Area of Potential Effects
BEBR	Bureau of Economic and Business Research
CR	County Road
D/C	Demand to Capacity
EFH	Essential Fish Habitat
ERP	Environmental Resource Permit
ETAT	Environmental Technical Advisory Team
ETDM	Efficient Transportation Decision Making
FDEO	Florida Department of Economic Opportunity
FDOT	Florida Department of Transportation
FDEP	Florida Department of Environmental Protection
FDM	Florida Design Manual
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FIHS	Florida Intrastate Highway System
FIRM	Flood Insurance Rate Map
FMSF	Florida Master Site File
FWC	Florida Fish and Wildlife Conservation Commission
GIS	Geographic Information System
HCM	Highway Capacity Manual
ILC	Intermodal Logistics Center
LDCA	Location and Design Concepts Acceptance
LFR	Load Factor Rating
LOS	Level of Service

MPH	Miles per Hour
NAVD	North American Vertical Datum of 1988
NBI	National Bridge Institute
NGVD	National Geodetic Vertical Datum of 1929
NMFS	National Marine Fisheries Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NWI	National Wetlands Inventory
OFW	Outstanding Florida Waters
OGT	Office of Greenways and Trails
PCMS	Petroleum Contamination Monitoring Sites
PD&E	Project Development and Environment
PER	Preliminary Engineering Report
PTAR	Project Traffic Analysis Report
RCRA	Resource Conservation and Recovery Act
SDR	Sociocultural Data Report
SHPO	State Historic Preservation Officer
SIS	Strategic Intermodal System
SR	State Road
STCM	Storage Tank Contamination Monitoring
SUN	Shared-Use Nonmotorized
SWFWMD	Southwest Florida Water Management District
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
v/c	Volume to Capacity
WBID	Water Body ID

1.0 Introduction

The Interstate 75 (I-75) North Corridor is part of the Southwest Connect™ Interstate Program. The Southwest Connect™ Interstate Program consists of multiple studies and projects within four corridors along I-75 and I-4 in Florida Department of Transportation (FDOT) District 1.



Interstate 75 (I-75) SOUTH CORRIDOR

Counties:
Collier & Lee

Phase:
Planning & Feasibility

Interstate 75 (I-75) CENTRAL CORRIDOR

Counties:
Charlotte & Sarasota

Phase:
Planning & Feasibility

Interstate 75 (I-75) NORTH CORRIDOR

Counties:
Sarasota & Manatee

Phase:
Planning & Feasibility

Interstate 4 (I-4) CORRIDOR

County:
Polk

Phase:
Planning & Feasibility

The I-75 and I-4 corridors are key facilities of the Strategic Intermodal System (SIS). Both have experienced increasing traffic as a result of population growth, additional tourism and special events. FDOT, in partnership with the local communities, wants to be proactive in planning for a safe and efficient corridor. The goals during the Planning and Feasibility phase are to identify and document in a Master Plan, solutions that improve safety, operational capacity, functionality, efficiency and connectivity along and across the corridor.

I-75 North, Central and South Corridors are included in the Southwest Connect™ Interstate Program. The purpose of the program is to address the long-term needs of the interstate corridors in Southwest Florida. The I-4 Corridor will focus on needs for Central Florida. A separate Planning and Feasibility study is underway for each corridor.

1.1 Project Description

The I-75 North Corridor Master Plan will evaluate strategies for the mainline and interchanges that will improve accessibility, mobility and safety. Managed lanes, collector-distributor roadways, auxiliary lanes, interchange operational improvements and new interchanges are under consideration. The Master Plan will document the road's needs, define and prioritize necessary improvements, and identify ways to fund these improvements. FDOT will develop an Implementation Plan based on priorities identified in the Master Plan. Funded priorities will become individual Projects which progress through the project development process.

The I-75 North Corridor limits are from south of River Road (SR 777) to north of Moccasin Wallow Road in Sarasota and Manatee Counties, as shown in **Figure 1.1**. The I-75 North Corridor is approximately 40 miles in length and traverses the major urban areas of Sarasota and Bradenton. It also crosses the navigable Manatee River in Manatee County near the northern project terminus. The functional classifications of I-75 within the project limits are Rural Principal Arterial - Interstate and Urban Principal Arterial – Interstate. This segment of I-75 consists of a six-lane divided typical section with auxiliary lanes in various segments along the corridor. Existing right of way along the corridor ranges from approximately 324 feet to 1124 feet in width.

1.2 Purpose of This Report

The purpose of this Existing Conditions Report is to document existing roadway and environmental conditions. Existing traffic conditions are documented under a separate report titled Existing Conditions Traffic Technical Memorandum.

Figure 1.1: Sarasota-Manatee Master Plan Area

2.0 Previous Studies

Three previous Project Development and Environment (PD&E) studies were completed for I-75 in the project limits:

- I-75 from SR 777 / North of River Road to SR 681 (Original LDCA 2003)
- I-75 from SR 681 to North of University Parkway (Original LDCA 2011)
- I-75 from North of University Parkway to Moccasin Wallow Road [Original Location Design and Concept Acceptance (LDCA) 2011]

The I-75 from North of River Road to SR 681 PD&E Study recommended widening to six lanes from North River Road to Jacaranda Boulevard and widening to eight lanes from Jacaranda Boulevard to SR 681.

The I-75 from SR 681 to North of University Parkway PD&E Study recommended a ten-lane typical section for I-75 with six general use lanes and four special use lanes to provide acceptable LOS through 2035.

The I-75 from North of University Parkway to Moccasin Wallow Road PD&E Study showed that I-75 in Manatee County will operate at Level of Service (LOS) F prior to year 2035 without significant mainline and interchange improvements. The study recommended a ten-lane typical section for I-75 with six general use lanes and four special use lanes.

3.0 Existing Conditions

3.1 Existing Roadway Conditions

3.1.1 Roadway Classifications and Posted Speed

3.1.1.1 I-75 Mainline

The functional classification for I-75 is urban principal arterial interstate from south of Jacaranda Boulevard to north of Laurel Road and from south of SR 72 / Clark Road to Moccasin Wallow Road. The functional classification for I-75 is rural principal arterial interstate from SR 777 / North River Road to south of Jacaranda Boulevard and from north of Laurel Road to south of SR 72 / Clark Road. I-75 is part of the Florida Intrastate Highway System and the Strategic Intermodal System. The access management classification is limited access (Class I) throughout the Master Plan limits. Context classification does not apply to limited access facilities and therefore does not apply to I-75.

The existing posted speed for the corridor is 70 mph, which complies with the design speed criteria for a rural and urban limited access SIS facility per the Florida Design Manual (FDM) Table 201.5.1.

3.1.1.2 Crossroads

I-75 crosses 24 roadways within the project limits. The configurations, roadway classifications and posted speeds at each of these crossroads are summarized in **Table 3.1**.

Table 3.1: Crossroad Classifications and Posted Speed

Crossroad	Configuration	Functional Classification	Access Management Classification	Context Classification	SIS	Posted Speed (mph)
Moccasin Wallow Road	Interchange	Urban Major Collector	N/A	N/A	No	45
I-275	Interchange	Urban Principal Arterial Interstate	Class 1		Yes	70
69th Street East	Side Street Overpass	Urban Major Collector	N/A	N/A	No	40
Mendoza Road	Side Street Overpass	Urban Major Collector	N/A	N/A	No	40
US 301	Interchange	Urban Principal Arterial Other	Class 5	C3C	No	45
19th Street East	Mainline Overpass	Local Road	N/A	N/A	No	30
48th Street Court Northeast	Mainline Overpass	Local Road	N/A	N/A	No	30
Kay Road	Side Street Overpass	Urban Major Collector	N/A	N/A	No	30
SR 64	Interchange	Urban Principal Arterial Other	Class 5	C2	No	50
SR 70	Interchange	Urban Principal Arterial Other	Class 3	C3C	Yes	50
Linger Lodge Road	Side Street Overpass	Urban Major Collector	N/A	N/A	No	30
University Parkway	Interchange	Urban Principal Arterial Other	N/A	N/A	Yes	50

Crossroad	Configuration	Functional Classification	Access Management Classification	Context Classification	SIS	Posted Speed (mph)
SR 780 / Fruitville Road	Interchange	Urban Principal Arterial Other	Class 3	C3C	No	45
Palmer Boulevard	Mainline Overpass	Urban Major Collector	N/A	N/A	No	35
SR 758 / Bee Ridge Road	Interchange	Urban Minor Arterial	Class 5	C3C	No	45
Proctor Road	Side Street Overpass	Urban Major Collector	N/A	N/A	No	45
SR 72 / Clark Road	Interchange	Urban Minor Arterial	Class 5	C3C	No	45
SR 681	Interchange	Rural Principal Arterial Other	Class 1	C2	No	60
Laurel Road	Interchange	Urban Minor Arterial	N/A	N/A	No	45
Border Road	Mainline Overpass	Urban Minor Collector	N/A	N/A	No	40
Jacaranda Boulevard	Interchange	Principal Arterial Other (South of I-75) & Major Collector (North of I-75)	N/A	N/A	No	45
Havana Road	Mainline Overpass	Local Road	N/A	N/A	No	30
Jackson Road	Mainline Overpass	Rural Minor Collector	N/A	N/A	No	40
SR 777 / North River Road	Interchange	Local Road	Class 3 Outside of Interchange	C3R	No	45

3.1.2 Typical Sections

The existing I-75 typical section consists of three general purpose (GP) lanes in each direction separated by a grassed median (**Figure 3.1**). An auxiliary (AUX) lane exists in each direction from SR 780 / Fruitville Road to SR 64 (**Figure 3.2**).

Figure 3.1: Existing Typical Section – Six Lane Divided
From SR 777 / North River Road to SR 780 / Fruitville Road and
From SR 64 to Moccasin Wallow Road

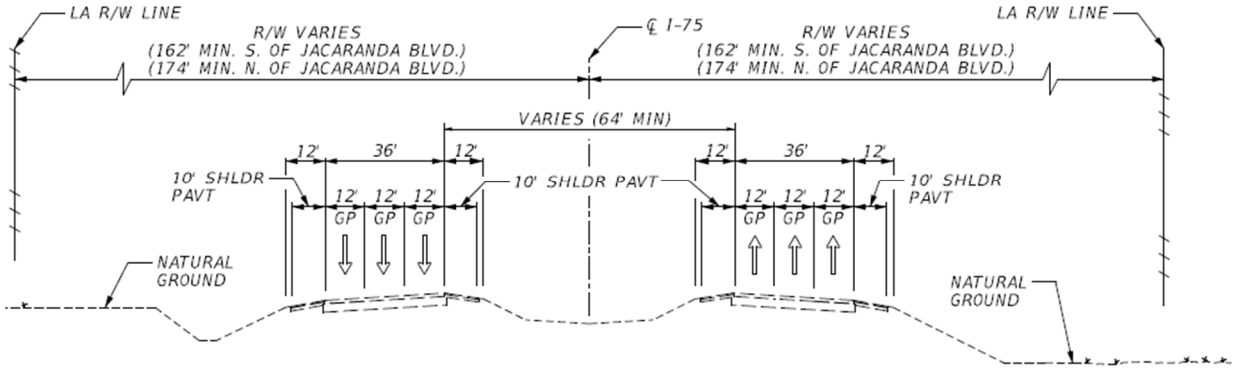
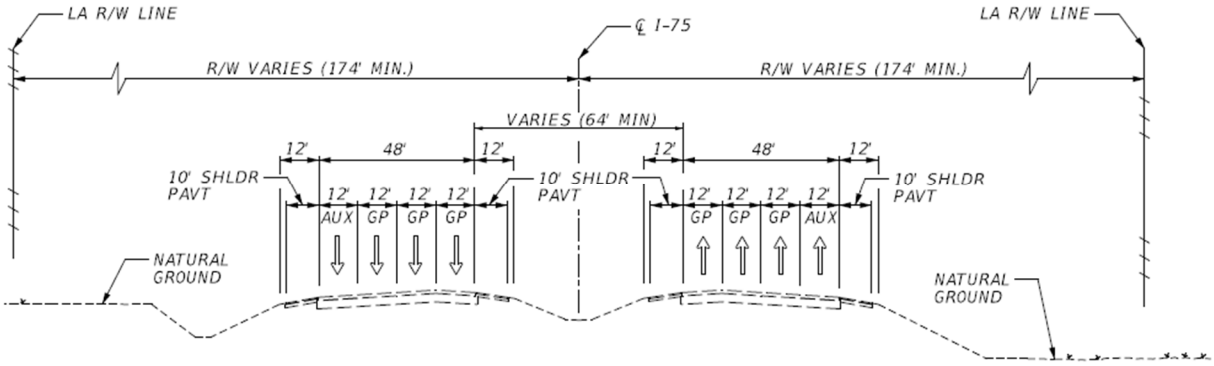


Figure 3.2: Existing Typical Section – Six Lane Divided with Auxiliary Lanes
From SR 780 / Fruitville Road to SR 64



By the opening year of 2025, the planned improvements at SR 72 / Clark Road and US 301 will be constructed and will extend the limits of the auxiliary lanes as summarized below.

Existing Year 2022

- SR 777 / North River Road to SR 780 / Fruitville Road – six-lane
- SR 780 / Fruitville Road to SR 64 – six-lane with auxiliary lanes
- SR 64 to Moccasin Wallow – six-lane

Opening Year 2025

- SR 777 / North River Road to SR 72 / Clark Road – six-lane
- SR 72 / Clark Road to SR 758 / Bee Ridge Road – six-lane with auxiliary lanes
- SR 758 / Bee Ridge Road to SR 780 / Fruitville Road – six-lane

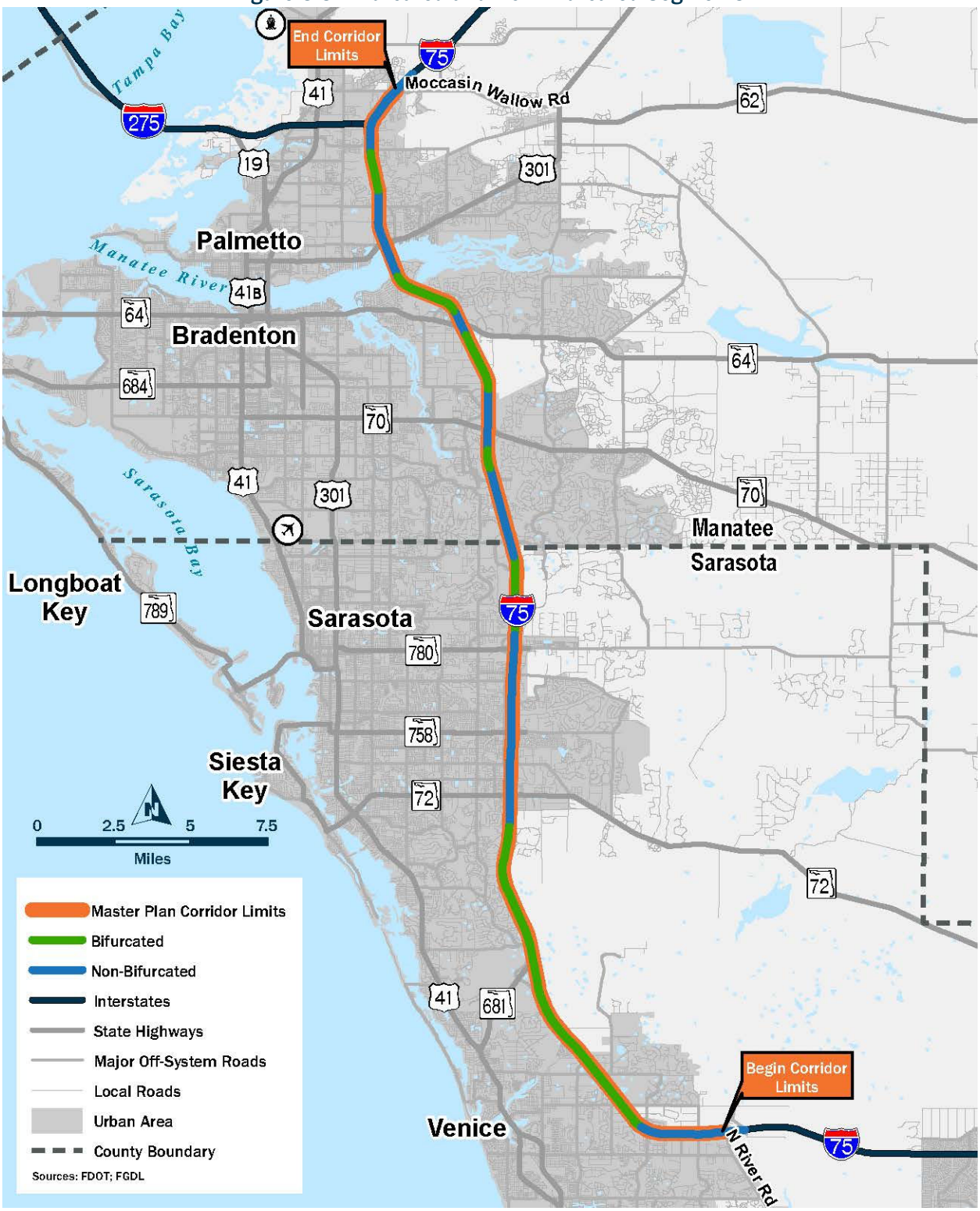
- SR 780 / Fruitville Road to US 301 - six-lane with auxiliary lanes
- US 301 to Moccasin Wallow - six-lane

All travel lanes are 12 feet wide and the inside and outside shoulders are 12 feet wide with 10 feet paved. The northbound and southbound lanes are bifurcated along several segments within the Master Plan corridor as summarized in **Table 3.2** and shown in **Figure 3.3.** The median width is typically 64 feet within the non-bifurcated segments and is up to 405 feet in the bifurcated segments.

Table 3.2: Bifurcated and Non-Bifurcated Segments

County	Milepost Limits	Bifurcated or Non-Bifurcated	Existing Median Width
Manatee	14.0 – 16.2	Non-Bifurcated	88’
Manatee	12.6 – 14.0	Bifurcated	Varies (88’ – 405’)
Manatee	9.8 – 12.6	Non-Bifurcated	88’
Manatee	7.8 – 9.8	Bifurcated	Varies (88’ – 185’)
Manatee	7.0 – 7.8	Non-Bifurcated	88’
Manatee	5.1 – 7.0	Bifurcated	Varies (64’ – 168’)
Manatee	3.1 – 5.1	Non-Bifurcated	Varies (64’ - 190’)
Manatee	2.5 - 3.1	Bifurcated	Varies (64’ - 157’)
Manatee	0.0 - 2.5	Non-Bifurcated	Varies (64’ - 164’)
Sarasota	42.2 – 42.6	Non-Bifurcated	164’
Sarasota	39.6 – 42.2	Bifurcated	Varies (77’ – 300’)
Sarasota	33.4 – 39.6	Non-Bifurcated	88’
Sarasota	22.5 – 33.4	Bifurcated	Varies (64’ - 830’)
Sarasota	20.1 – 22.5	Non-Bifurcated	64’

Figure 3.3: Bifurcated and Non-Bifurcated Segments



3.1.3 Right of Way

Previous PD&E Studies, right of way maps, and County Property Appraiser tax maps provided in GIS format were reviewed to identify the existing I-75 right of way. Outside of the limits of interchanges, from south of SR 777 / North River Road to Jacaranda Boulevard, the mainline right of way is typically 324 feet with I-75 centered within the right of way. From Jacaranda Boulevard to SR 72 / Clark Road, the roadway becomes bifurcated and the right-of-way varies from 348 feet to 1,124 feet. From SR 72 / Clark Road to Moccasin Wallow Road, the mainline right of way width in non-bifurcated segments is typically 348 feet with I-75 centered within the right-of-way and varies from 348 feet to 588 feet in bifurcated segments. Table 3.3 summarizes the right of way widths throughout the project limits.

Table 3.3: Right of Way Widths

County	Milepost Limits	Limits	Right-of-Way Width (feet)*
Manatee	15.4 to 15.7	North of I-275 to South of Moccasin Wallow Road	Varies (357'-394')
Manatee	12.6 to 14.0	South of CSX Railroad to South of I-275	Varies (348'-665')
Manatee	11.4 to 12.6	North of US 301 to South of CSX Railroad	348'
Manatee	9.8 to 10.9	South of Manatee River to South of US 301	348'
Manatee	9.3 to 9.8	North of Salt Marsh to South of Manatee River	Varies (348' – 445')
Manatee	8.4 to 9.3	Kay Road to North of Salt Marsh	445'
Manatee	7.8 to 8.4	North of SR 64 to Kay Road	Varies (353' – 445')
Manatee	5.0 to 7.0	MP 5 to South of SR 64	Varies (348' – 451')
Manatee	4.2 to 5.0	North of SR 70 to MP 5	348'
Manatee	2.5 to 3.1	North of Linger Lodge Road to South of SR 70	Varies (348' – 396')
Manatee	0.5 to 2.5	North of University Parkway to North of Linger Lodge Road	348'
Sarasota	39.6 to 42.2	North of SR 780 / Fruitville Road to South of University Parkway	Varies (348' – 588')
Sarasota	37.8 to 38.7	South of Palmer Boulevard to South of SR 780 / Fruitville Road	Varies (348' – 416')
Sarasota	36.9 to 37.8	North of SR 758 / Bee Ridge Road to South of Palmer Boulevard	348'

County	Milepost Limits	Limits	Right-of-Way Width (feet)*
Sarasota	35.1 to 36.0	North of ST 72 / Clark Road to South of SR 758 / Bee Ridge Road	348’
Sarasota	33.4 to 33.9	South of SR 72 / Clark Road	348’
Sarasota	30.2 to 33.4	North of SR 681 to South of SR 72 / Clark Road	Varies (348’ – 584’)
Sarasota	25.1 to 28.5	North of Laurel Road to South of SR 681	Varies (355’ – 1124’)
Sarasota	22.8 to 23.9	North of Jacaranda Blvd. to South of Laurel Road	Varies (412’ - 945’)
Sarasota	20.5 to 21.8	North of SR 777 / North River Road to South of Jacaranda Boulevard	324’

** Excludes interchanges*

3.1.4 Horizontal Alignment

In Sarasota County, the horizontal alignment of I-75 runs in an east-west direction from SR 777 / North River Road to Jacaranda Boulevard and in a north-south direction from Jacaranda Boulevard to University Parkway. In Manatee County, the horizontal alignment continues in a north-south direction from University Parkway to north of SR 64 where it turns northwest to the Manatee River crossing. From the Manatee River to I-275 the alignment runs in a north-south direction and turns to head northeast from I-275 to Moccasin Wallow Road.

There are 43 horizontal curves within the Master Plan limits as shown in **Figure 3.5** and summarized in **Table 3.4.** The horizontal geometry is based on centerline construction in non-bifurcated segments and baseline construction, inside edge of pavement, on bifurcated segments.. FDM Table 211.7.1 states that for a 70 mph design speed, the minimum desired length of a horizontal curve is 1,050 feet with a desired length of 2,100 feet. Out of the curves identified, it was found that Curves 20, 25 and 39 have a horizontal curve length less than 1,050 feet.

Figure 3.4: Horizontal Curves

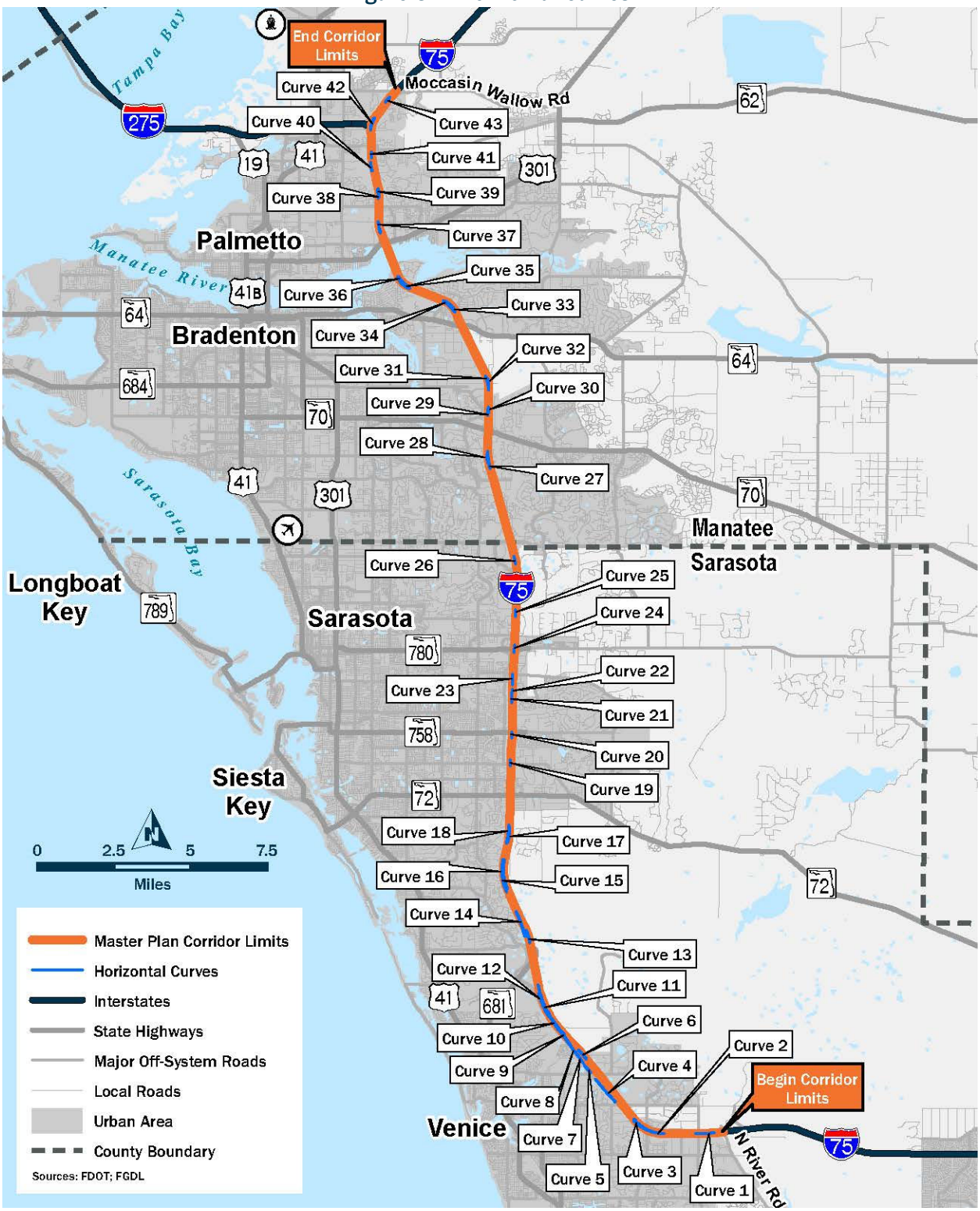


Table 3.4: Horizontal Curves

Curve No.	County	I-75 NB, I-75 SB or Center	Location	P.I. Milepost	Radius	Length
43	Manatee	Center	South of Moccasin Wallow Road	15.8	8,594’	1,108’
42	Manatee	Center	I-275 / I-75	14.9	3,820’	2,196’
41	Manatee	I-75 NB	South of 69th Street	13.9	5,730’	**1,005’**
40	Manatee	I-75 SB	South of 69th Street	13.5	5,730’	1,373’
39	Manatee	I-75 SB	North of Mendoza Road	12.6	5,730’	1,462’
38	Manatee	I-75 NB	North of Mendoza Road	12.6	7,639’	1,459’
37	Manatee	Center	North of US 301	11.5	5,730’	1,991’
36	Manatee	I-75 SB	North of Kay Road	9.6	3,270	2,655’
35	Manatee	I-75 NB	North of Kay Road	9.6	3,274’	2,658’
34	Manatee	I-75 SB	South of Kay Road	8	3,285’	2,467’
33	Manatee	I-75 NB	South of Kay Road	8	3,274’	2,459’
32	Manatee	I-75 SB	Adjacent to 41st Avenue	5.3	5,698’	2,351’
31	Manatee	I-75 NB	Adjacent to 41st Avenue	5.3	2,897’	1,221’
30	Manatee	I-75 NB	North of SR 70	4.4	30,000	1,068’
29	Manatee	I-75 SB	North of SR 70	4.3	30,000’	1,068’
28	Manatee	I-75 SB	North of Linger Lodge Road	2.8	5,730’	1,461’
27	Manatee	I-75 NB	North of Linger Lodge Road	2.7	11,459’	2,922’
26	Sarasota	Center	South of University Parkway	42	5,730	1,461’
25	Sarasota	Center	North of SR 780 / Fruitville Road	40.3	42,972’	**1,045’**
24	Sarasota	Center	SR 780 / Fruitville Road	39.1	28,648’	1,189’
23	Sarasota	Center	Palmer Boulevard	38.1	28,648’	1,819’
22	Sarasota	Center	North of Main A Canal	37.7	22,918’	1,129’

Curve No.	County	I-75 NB, I-75 SB or Center	Location	P.I. Milepost	Radius	Length
21	Sarasota	Center	North of Main A Canal	37.5	22,918’	1,107’
20	Sarasota	Center	SR 758 / Bee Ridge Road	36.3	22,918’	**1,034’**
19	Sarasota	Center	Proctor Road	35.4	34,377’	1,053’
18	Sarasota	I-75 SB	South of SR 72 / Clark Road	33.1	16,370’	3,107’
17	Sarasota	I-75 NB	South of SR 72 / Clark Road	33.1	16,370’	2,709’
16	Sarasota	I-75 SB	Habatowski Creek	31.8	9,050’	5,547’
15	Sarasota	I-75 NB	Habatowski Creek	31.8	9,050’	5,076’
14	Sarasota	I-75 SB	Sunrise Creek	30.1	22,918’	4,441’
13	Sarasota	I-75 NB	South of Sunrise Creek	30.1	11,090’	2,274’
12	Sarasota	I-75 SB	Fox Creek	27.1	13,222’	4,595’
11	Sarasota	I-75 NB	Fox Creek	27.1	18,093’	9,473’
10	Sarasota	I-75 SB	South of Fox Creek	26.6	22,918’	1,873’
9	Sarasota	I-75 SB	Cowpen Slough	26.2	22,918’	3,017’
8	Sarasota	I-75 SB	Salt Creek	25.7	22,918’	2,410’
7	Sarasota	I-75 SB	South of Salt Creek	25.4	22,918’	1,267
6	Sarasota	I-75 NB	North of Laurel Road	25.4	22,918’	1,905’
5	Sarasota	I-75 SB	North of Laurel Road	25	22,918’	1,552’
4	Sarasota	I-75 SB	North of Border Road	24.1	57,296’	4,919
3	Sarasota	I-75 SB	Jacaranda Boulevard	22.6	7,639’	1,373’*
2	Sarasota	I-75 NB	Jacaranda Boulevard	22.3	5,730’	5,444’
1	Sarasota	I-75 NB	North of River Road	20.6	22,918’	2,950’

**Curve compounded with previous curvature based off the NB alignment at the beginning of bifurcated segment.*
I-75 NB and SB curves noted with light blue text were approximated using aerial imagery and horizontal alignment information from the SLD.
*Curves that do not meet the FDOT minimum curve length requirement are noted in **red.***

3.1.5 Vertical Alignment

The terrain along I-75 is relatively flat except for all the crossroad and waterway crossings. The longitudinal grades range from 0.0% to 2.90% and the interstate is higher than the property adjacent to the highway within the project limits. The crest and sag vertical curves along I-75 have curve lengths ranging from 556 feet to 3,815 feet. The existing vertical curve information was gathered from recent construction plans, previous PD&E studies, and as-built plans. Table 3.5 summarizes the existing vertical curves for I-75 through the Master Plan area. Vertical curve information that was not legible from the as-built plans is listed as such in the table.

The existing vertical alignment of I-75 was evaluated to determine if the existing facility meets current design standards for vertical curvature with a design speed of 70 mph. All vertical curves meet the FDM Table 211.9.1 maximum grade requirement of 3 percent. The FDM Table 211.9.3 requires a minimum vertical curve length of 800 feet for a sag curve, 1,000 feet for a crest curve in open highway, and 1,800 feet for a crest curve within interchange where the mainline bridges over the side road (WI). There are eight curves that do not meet the criteria for vertical curve length as noted in red text in the table. The FDM Table 211.9.2 requires interstates to have a minimum K value of 206 for sag curves, 506 for new reconstruction crest curves and 312 for resurfacing crest curves. There are twelve crest curves that do not meet the minimum K value criteria – seven that do not meet new construction criteria (noted in orange) and five that do not meet the resurfacing criteria (noted in red).

Table 3.5: Vertical Curves

County	VPI Milepost	Interchange	Curve Type	Grade In	Grade Out	Exist V.C. Length	Existing K-Value
Left and Right Roadway (I-75 NB and SB)							
Manatee	12		Crest	1.17%	-0.30%	1800’	1228
Manatee	11.7		Crest	0.17%	1.17%	1000’	1001
Manatee	11.2		Sag	-1.38%	0.17%	800’	519
Manatee	10.6	US 301 / Manatee River	Crest (WI)	1.87%	-1.38%	3815’	1176
Manatee	8.8		Crest	0.08%	0.00%	1000’	12821
	7.6		Sag	-2.48%	-0.13%	800’	340
Manatee	7.3	SR 64	Crest (WI)	2.48%	-2.48%	2600’	524
	7		Sag	-0.08%	2.48%	800’	313
Manatee	5.7		Crest	0.06%	-0.53%	1000’	1724
Manatee	5.1		Crest	0.23%	0.06%	1000’	5848
Manatee	4.8		Sag	-0.16%	0.23%	800’	2067
Manatee	2.3		Sag	-0.25%	0.00%	800’	3200
Manatee	1.9		Crest	0.25%	-0.25%	**940’**	1880
Manatee	1.5		Sag	0.00%	0.25%	800’	3200
Left Roadway (I-75 SB)							
Manatee	16.2	Moccasin Wallow Road	Crest (WI)	2.20%	-2.20%	2200’	**500**
Manatee	15.8		Sag	-0.22%	0.00%	800’	3561

County	VPI Milepost	Interchange	Curve Type	Grade In	Grade Out	Exist V.C. Length	Existing K-Value
Manatee	15.2		Crest	0.37%	-0.22%	1000’	1676
Manatee	14.8		Sag	-0.15%	0.37%	800’	1538
Manatee	14.6		Crest	0.20%	-0.15%	1000’	2874
Manatee	14.4		Sag	-0.28%	0.20%	800’	1667
Manatee	14		Sag	-0.75%	-0.28%	800’	1702
Manatee	13.7		Crest	0.00%	-0.75%	1000’	1340
Manatee	13.4		Crest	0.44%	0.00%	1000’	2270
Manatee	13.2		Sag	-2.39%	0.44%	800’	282
Manatee	12.9		Crest	2.39%	-2.39%	2600’	543
Manatee	12.5		Sag	-0.30%	2.39%	1000’	371
Manatee	10.1		Sag	0.00%	1.87%	800’	428
Manatee	9.7		Sag	-0.18%	0.00%	800’	4469
Manatee	9.3		Crest	0.00%	-0.18%	1000’	5586
Manatee	8.5		Sag	-0.13%	-0.08%	800’	15384
Manatee	6.2		Sag	-0.53%	-0.08%	800’	1791
Manatee	4.4		Crest	0.20%	-0.27%	2000’	4282
Manatee	4.1		Sag	-2.50%	0.20%	800’	296
Manatee	3.8	SR 70	Crest	2.50%	-2.50%	2550’	510
Manatee	3.4		Sag	0.20%	2.50%	800’	348
Manatee	3		Sag	0.00%	0.35%	800’	2286
Manatee	0.3		Sag	-2.41%	-0.15%	800’	355
Manatee	0	University Parkway	Crest (WI)	1.88%	-2.41%	2180’	508
Right Roadway (I-75 NB)							
Manatee	16.2	Moccasin Wallow Road	Crest (WI)	2.20%	-2.20%	2200’	**500**
Manatee	15.8		Sag	-0.22%	0.00%	800’	3561
Manatee	15.3		Crest	0.39%	-0.22%	1000’	1638
Manatee	14.9		Sag	0.20%	0.39%	800’	4303
Manatee	14.4		Sag	-0.28%	0.20%	800’	1667
Manatee	14		Sag	-0.54%	-0.28%	800’	3045
Manatee	13.5		Crest	0.57%	-0.54%	2200’	1988
Manatee	13.2		Sag	-2.35%	0.57%	800’	274
Manatee	12.9		Crest	2.40%	-2.35%	2600’	547
Manatee	12.5		Sag	-0.30%	2.40%	1000’	370
Manatee	10.1		Sag	-0.08%	1.87%	800’	410
Manatee	9.3		Crest	0.00%	-0.08%	1000’	12195
Manatee	8.4		Sag	-0.10%	0.08%	800’	4420
Manatee	6.2		Sag	-0.53%	-0.08%	800’	1789
Manatee	4.4		Crest	0.20%	-0.25%	2000’	4587
Manatee	4.1		Sag	-2.50%	0.20%	800’	296
Manatee	3.8	SR 70	Crest	2.50%	-2.50%	2550’	510
Manatee	3.4		Sag	0.17%	2.50%	800’	344
Manatee	3		Sag	0.00%	0.35%	800’	2286

County	VPI Milepost	Interchange	Curve Type	Grade In	Grade Out	Exist V.C. Length	Existing K-Value
Manatee	0.3		Sag	-2.41%	-0.13%	800’	352
Manatee	0	University Parkway	Crest (WI)	1.88%	-2.41%	2180’	508
Left and Right Roadway (I-75 NB and SB)							
Sarasota	38.3		Crest	2.30%	-2.30%	1300’	**283**
Sarasota	38		Sag	0.00%	2.30%	800’	348
Sarasota	37.4		Sag	-0.32%	0.00%	800’	2500
Sarasota	37.1		Crest	0.32%	-0.32%	1200’	1875
Sarasota	36.7		Sag	-2.44%	0.32%	**700’**	254
Sarasota	36.4	SR 758 / Bee Ridge Road	Crest (WI)	2.43%	-2.44%	1800’	**370**
Sarasota	36		Sag	-0.09%	2.43%	900’	358
Sarasota	35.5		Sag	-0.24%	-0.09%	800’	5277
Sarasota	35.3		Crest	-0.05%	-0.24%	**800’**	4246
Sarasota	34.7		Sag	-2.62%	-0.05%	800’	311
Sarasota	34.3	SR 72 / Clark Road	Crest (WI)	2.39%	-2.62%	**1500’**	**299**
Sarasota	34.1		Sag	0.15%	2.39%	800’	357
Sarasota	33.8		Crest	0.67%	0.15%	1000’	1934
Sarasota	33.6		Sag	0.34%	0.67%	800’	2460
Sarasota	21.5		Sag	-2.22%	0.00%	800'	360
Sarasota	21.3		Crest	2.48%	-2.22%	1600'	**340**
Sarasota	21		Sag	-2.35%	2.48%	1000'	207
Sarasota	20.8		Crest	2.22%	-2.35%	1600'	**350**
Sarasota	20.6		Sag	0.00%	2.22%	800'	360
Sarasota	20.3		Sag	-2.68%	0.00%	800'	299
Sarasota	20.1	SR 777 / N. River Road	Crest (WI)	2.72%	-2.68%	**1600'**	**297**
Sarasota	19.8		Sag	0.00%	2.72%	800'	295
Left Roadway (I-75 SB)							
Sarasota	42.1		Sag	0.11%	1.88%	800’	453
Sarasota	39.6		Crest	0.30%	-0.03%	1000’	3039
Sarasota	39.4		Sag	-2.00%	0.30%	800’	348
Sarasota	39.1	SR 780 / Fruitville Road	Crest (WI)	2.00%	-2.00%	2024’	506
Sarasota	38.9		Sag	0.30%	2.00%	800’	471
Sarasota	38.6		Sag	-2.12%	0.30%	800’	330
Sarasota	38.3		Crest	2.23%	-2.12%	2200’	506
Sarasota	33.3		Sag	0.00%	0.34%	800’	2353
Sarasota	32.8		Crest	Not legible	0.00%	1000'	-
Sarasota	32.3		Sag	0.00%	Not legible	800’	-
Sarasota	32		Crest	0.06%	0.00%	1000’	18182
Sarasota	31.2		Sag	0.00%	0.06%	800’	14545
Sarasota	30.6		Crest	0.02%	0.00%	1000’	50000
Sarasota	30.5		Sag	0.00%	0.02%	800’	40000

County	VPI Milepost	Interchange	Curve Type	Grade In	Grade Out	Exist V.C. Length	Existing K-Value
Sarasota	29.5		Sag	-0.25%	0.00%	800'	3172
Sarasota	29.4	SR 681	Crest	0.00%	-0.25%	1000'	3965
Sarasota	29		Sag	0.30%	0.00%	1000'	3333
Sarasota	28.8		Sag	0.00%	0.30%	800'	2667
Sarasota	28.4		Sag	0.16%	0.00%	1000'	6250
Sarasota	28.3		Sag	0.00%	0.16%	800'	5000
Sarasota	27.5		Crest	0.35%	0.00%	1000'	2857
Sarasota	27.4		Sag	0.00%	0.35%	800'	2286
Sarasota	27.2		Sag	-0.25%	0.00%	800'	3243
Sarasota	27		Crest	0.00%	-0.25%	1000'	4054
Sarasota	26.5		Sag	-2.01%	0.01%	800'	396
Sarasota	26.2		Crest	1.97%	-2.01%	2020’	508
Sarasota	25.9		Sag	-0.10%	1.97%	1050’	507
Sarasota	25.3	Laurel Road	Crest	0.33%	-0.30%	1000'	1587
Sarasota	23.4		Sag	0.19%	0.00%	800'	4211
Sarasota	23.2		Sag	0.00%	0.19%	800'	4211
Sarasota	22.6		Sag	-2.21%	0.00%	900'	407
Sarasota	22.3	Jacaranda Boulevard	Crest (WI)	2.21%	-2.21%	**1220'**	**276**
Sarasota	22.1		Sag	0.00%	2.21%	**610'**	276
Right Roadway (I-75 NB)							
Sarasota	42.1		Sag	0.15%	1.88%	800’	462
Sarasota	39.6		Crest	0.30%	-0.13%	1000’	2319
Sarasota	39.4		Sag	-2.00%	0.30%	800’	348
Sarasota	39.1	SR 780 / Fruitville Road	Crest (WI)	2.00%	-2.00%	2024’	506
Sarasota	38.9		Sag	0.30%	2.00%	800’	471
Sarasota	38.6		Sag	-2.32%	0.30%	800’	305
Sarasota	38.3		Crest	2.32%	-2.32%	1300’	**280**
Sarasota	33.1		Sag	0.00%	0.35%	800’	2285
Sarasota	32.6		Crest	Not legible	0.00%	1000’	-
Sarasota	32.1		Sag	0.00%	Not legible	800’	-
Sarasota	31.8		Crest	0.07%	0.00%	1000’	14376
Sarasota	31.4		Sag	0.00%	0.07%	800’	11501
Sarasota	31.2		Crest	0.09%	0.00%	1000’	11111
Sarasota	31		Sag	0.00%	0.09%	800’	8889
Sarasota	30.5		Crest	0.02%	0.00%	1000’	50000
Sarasota	30.3		Sag	0.00%	0.02%	800’	40000
Sarasota	29.4	SR 681	Crest	0.09%	0.00%	1000'	11682
Sarasota	29.3		Sag	0.00%	0.09%	800'	9346
Sarasota	28.4		Crest	0.12%	0.00%	1000'	8183
Sarasota	28.3		Sag	0.00%	0.12%	800'	6547
Sarasota	27.5		Crest	0.35%	0.00%	1000'	2857
Sarasota	27.4		Sag	0.00%	0.35%	800'	2286

County	VPI Milepost	Interchange	Curve Type	Grade In	Grade Out	Exist V.C. Length	Existing K-Value
Sarasota	27.2		Sag	-0.25%	0.00%	800'	3243
Sarasota	27		Crest	0.00%	-0.25%	1000'	4054
Sarasota	26.4		Sag	-2.43%	0.00%	800'	329
Sarasota	26.2		Crest	2.43%	-2.43%	1300'	**267**
Sarasota	26		Sag	0.30%	2.43%	800'	375
Sarasota	25.8		Sag	0.00%	0.30%	800'	2667
Sarasota	25.5		Sag	-0.48%	0.00%	800'	1667
Sarasota	25.3	Laurel Road	Crest	0.00%	-0.48%	1000'	2083
Sarasota	23.3		Sag	0.18%	0.00%	800'	4415
Sarasota	23.2		Sag	0.00%	0.18%	800'	4415
Sarasota	22.5		Sag	-2.90%	0.00%	940'	324
Sarasota	22.3	Jacaranda Boulevard	Crest (WI)	2.90%	-2.90%	**1600'**	**276**
Sarasota	22.1		Sag	0.00%	2.90%	800'	276

*Vertical curves that do not meet the FDOT minimum curve length requirement are noted in **red.***
*Vertical curves that do not meet the FDOT minimum K value for new construction are noted in orange and those that do not meet the minimum K value for resurfacing are noted in **red.***

3.1.6 Interchanges

There are thirteen interchanges within the Master Plan limits as summarized in **Table 3.6.** and shown in **Figure 3.5.** There are several planned interchange modifications that will be constructed by either the opening year (2025) or design year (2045) and are noted with red text in the table.

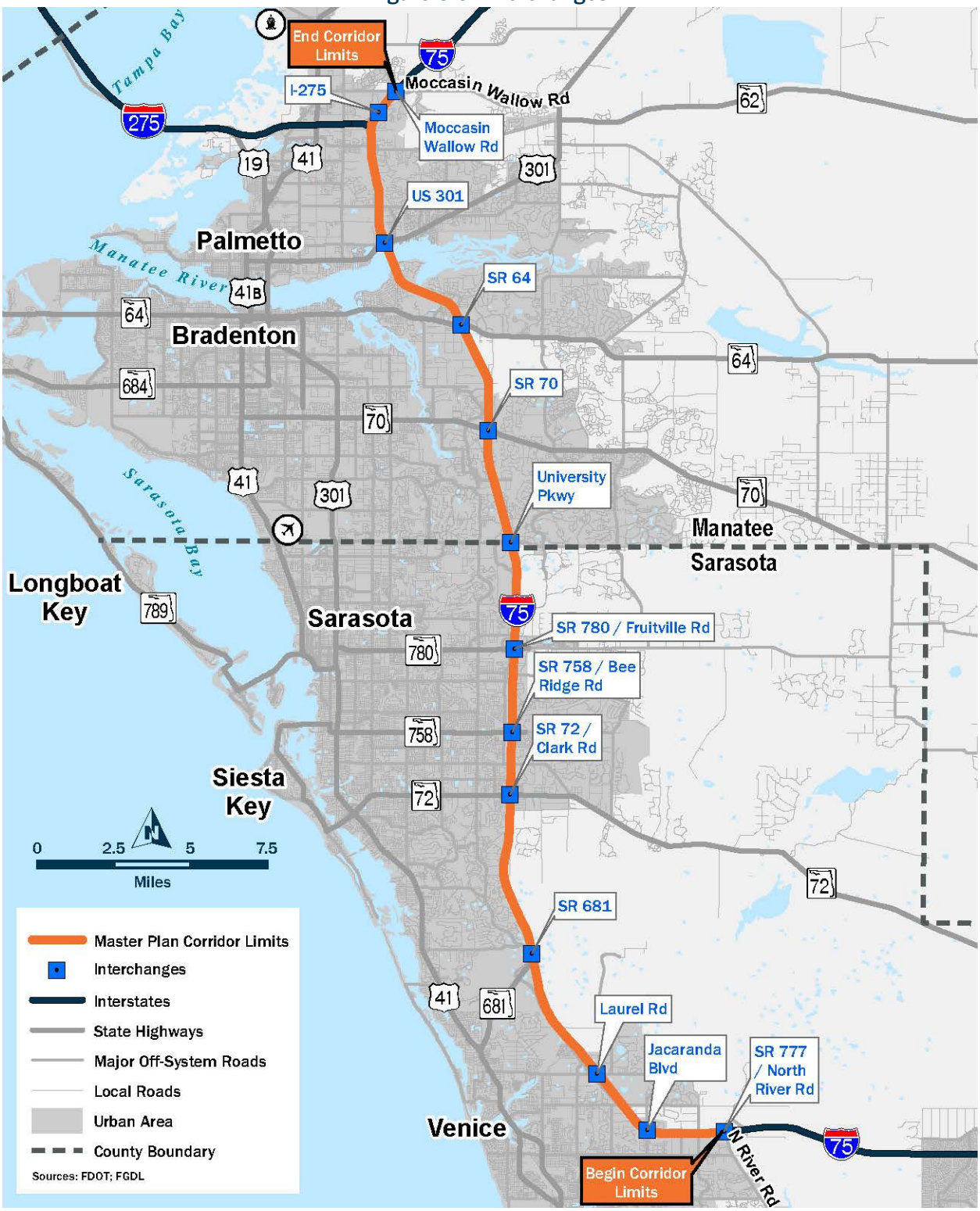
Table 3.6: Interchanges

County	MP	Exit #	Interchange	Existing Interchange Type (2022)	Opening Year Interchange Type (2025)	Design Year Interchange Type (2045)
Manatee	16.2	229	Moccasin Wallow Road	Diamond	Diamond	Diamond
Manatee	14.8	228	I-275	Direct Connect (System to System)	Direct Connect	Direct Connect
Manatee	11	224	US 301	Partial Cloverleaf/Partial Diamond	**Diamond**	Diamond
Manatee	7.3	220	SR 64	Partial Cloverleaf/Partial Diamond	Partial Cloverleaf/Partial Diamond	Partial Cloverleaf/Partial Diamond

County	MP	Exit #	Interchange	Existing Interchange Type (2022)	Opening Year Interchange Type (2025)	Design Year Interchange Type (2045)
Manatee	3.7	217	SR 70	Partial Cloverleaf/Partial Diamond	Partial Cloverleaf/Partial Diamond	Partial Cloverleaf/Partial Diamond
Manatee	0	213	University Parkway	Diverging Diamond Interchange	Diverging Diamond Interchange	Diverging Diamond Interchange
Sarasota	39.1	210	SR 780 / Fruitville Road	Partial Cloverleaf/Partial Diamond	Partial Cloverleaf/Partial Diamond	**Diverging Diamond Interchange (letting in 2026)**
Sarasota	36.4	207	SR 758 / Bee Ridge Road	Partial Cloverleaf/Partial Diamond	Partial Cloverleaf/Partial Diamond	**Hybrid Diverging Diamond Interchange (letting in 2029)**
Sarasota	34.4	205	SR 72 / Clark Road	Diamond	**Diverging Diamond Interchange**	Diverging Diamond Interchange
Sarasota	29	200	SR 681	Direct Connect	Direct Connect	Direct Connect
Sarasota	24.7	195	Laurel Road	Diamond	Diamond	Diamond
Sarasota	22.3	193	Jacaranda Boulevard	Partial Cloverleaf/Partial Diamond	Partial Cloverleaf/Partial Diamond	Partial Cloverleaf/Partial Diamond
Sarasota	20.1	191	SR 777 / North River Road	Diamond	Diamond	Diamond

*Planned interchange modifications are noted in **red.***

Figure 3.5: Interchanges



3.1.7 Drainage

Drainage along I-75 is accomplished by collecting stormwater runoff in open roadside ditches, which are present for the length of the project. Water in the ditches is conveyed by median drains, cross drains and depressional areas. These ditches and depressions provide some degree of attenuation and water quality treatment. In many cases, the runoff in the ditches is co-mingled with off-site runoff that is ultimately conveyed to one of several natural water bodies along the project. Stormwater runoff is collected in roadside swales along both sides of I-75. In many instances, storm sewer systems convey runoff to existing storm water management facilities (e.g. linear ponds, infield ponds or offsite ponds).

The Master Plan corridor traverses four major watersheds, including Myakka River, Southern Coastal, Manatee River and Little Manatee River (Tampa Bay Coastal) Watersheds as shown in **Figure 3.6**. Within these watersheds, there are eighteen defined drainage basins recognized by the SWFWMD and FDEP (**Figure 3.7**). There are seventy-eight cross drain locations serving as hydraulic crossings within the corridor limits. These cross drains convey off-site and onsite runoff and ensure pre-development drainage patterns are maintained. The cross drains are listed under four types; Concrete Culverts (CC), Concrete Box Culverts (CBC), Concrete Box Bridge Culverts, width 20' or greater (CBBC) and pile supported bridge spans (BDG). **Table 3.7** lists cross drain locations, pipe material, size and type of cross drain.

Figure 3.6: Watersheds

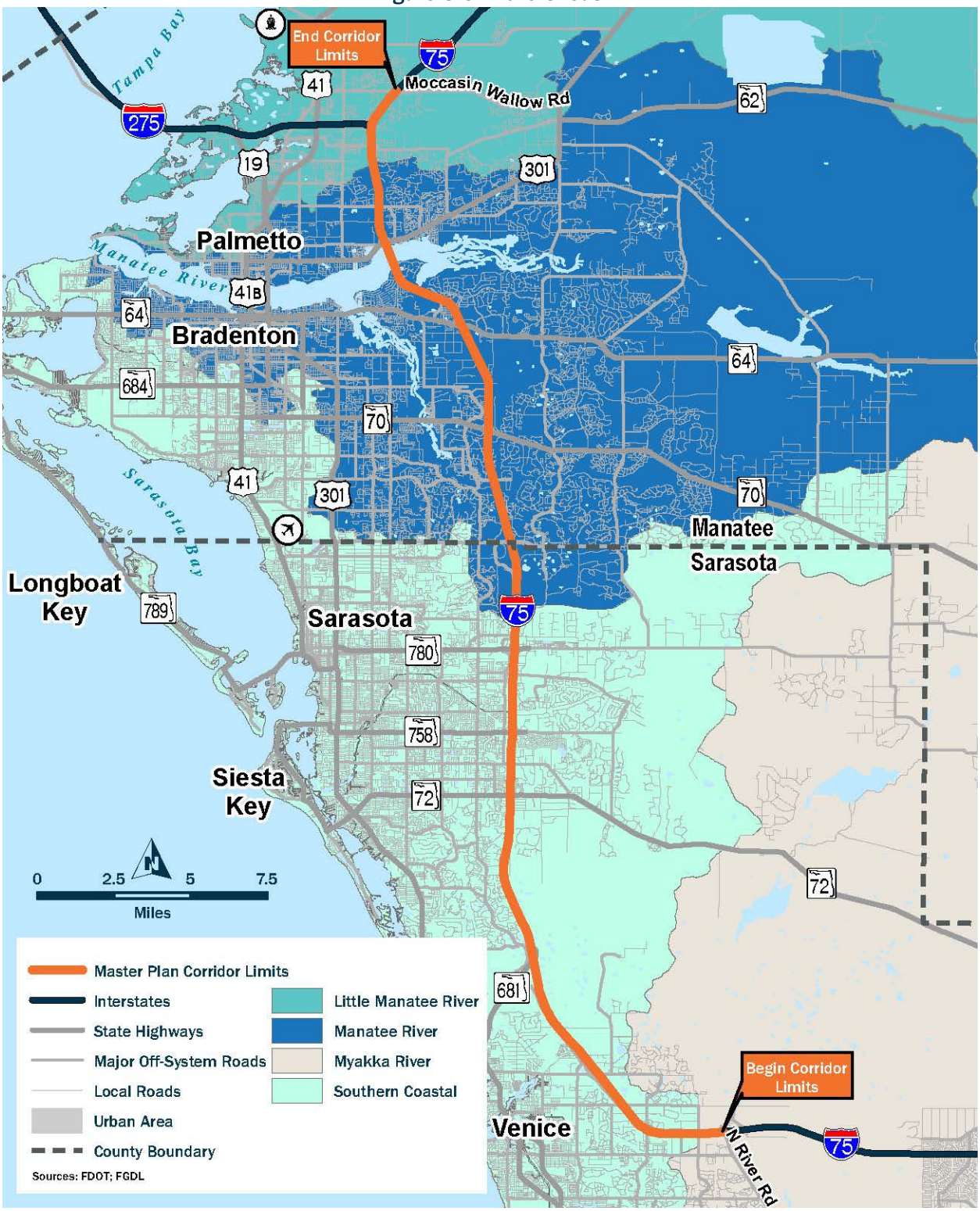


Figure 3.7: Drainage Basins

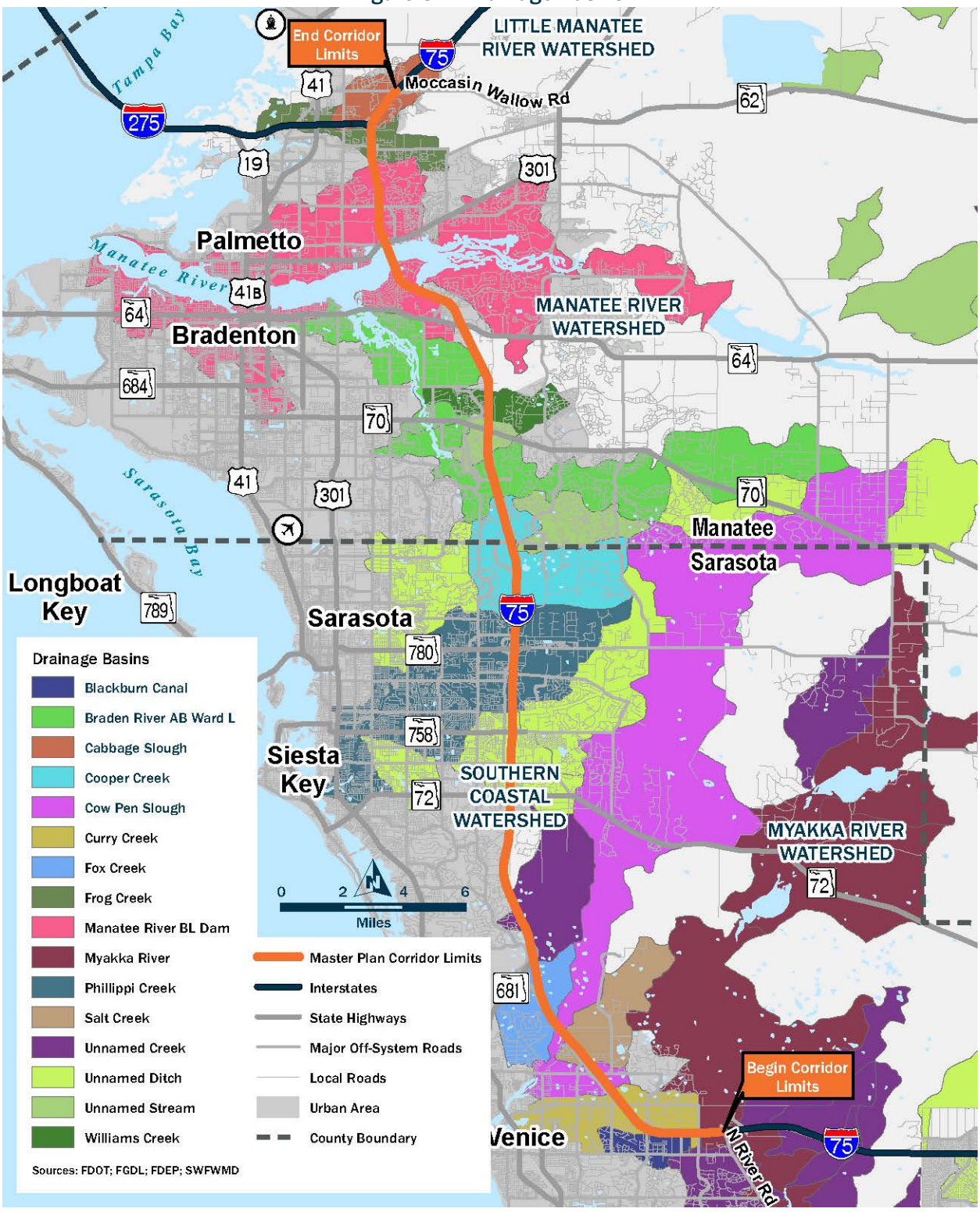


Table 3.7: Existing Cross Drains

County	Milepost	Type	Size	Full or Bifurcated Half Cross Drains
Manatee	15.9	CBC	10'x6'	cross drain
Manatee	15.1	CC	24"	cross drain
Manatee	14.5	NB & SB BDG		Frog Creek
Manatee	13.6	CC	24"	NB & SB Bifurcated cross drains
Manatee	13.5	CC	24"	NB & SB Bifurcated cross drains
Manatee	12.5	CC	24"	cross drain
Manatee	12.4	CC	66"	cross drain
Manatee	12.1	CC	36"	cross drain
Manatee	12	CC	26"	cross drain
Manatee	11.7	CBC	9'x5'	cross drain
Manatee	11.4	CC	18"	cross drain
Manatee	10.3	NB & SB BDG		Manatee River
Manatee	9	NB & SB BDG		Salt Marsh
Manatee	8.1	CC	24”	NB & SB Bifurcated cross drains
Manatee	7.8	CC	48"	cross drain
Manatee	7.7	CC	54"	cross drain
Manatee	7	CBC	8'x7'	cross drain
Manatee	6.3	CC	Dbl 30"	cross drain
Manatee	5.9	CC	36"	cross drain
Manatee	5.7	CC	24"	cross drain
Manatee	5.1	CC	48"	cross drain
Manatee	4.8	CBC	7'x5'	cross drain

County	Milepost	Type	Size	Full or Bifurcated Half Cross Drains
Manatee	4.7	CBC	7'x5'	cross drain
Manatee	4	CBC	7'x5'	cross drain
Manatee	3	CC	48"	cross drain
Manatee	2.8	CBC	6'x4'	cross drain
Manatee	2.6	CBC	6'x4'	cross drain
Manatee	2.2	CC	42"	cross drain
Manatee	2.1	CC	30"	cross drain
Manatee	1.8	CC	48"	cross drain
Manatee	1.7	NB & SB BDG		Braden River
Manatee	1.4	CC	42”	cross drain
Manatee	1.2	CC	36"	cross drain
Manatee	1.2	CC	30"	cross drain
Manatee	1.1	CC	36"	cross drain
Manatee	0.6	NB & SB BDG		Foley Creek
Sarasota	41.7	CC	36” NB, 42” SB	NB & SB Bifurcated cross drains
Sarasota	41.1	NB & SB BDG		Errie Creek
Sarasota	39.9	CC	36"	cross drain
Sarasota	39.4	CBBC	Dbl 10'x8'	Phillippi Creek
Sarasota	38.9	CC	60”	cross drain
Sarasota	38.9	CC	24”	cross drain
Sarasota	38.7	CC	60”	cross drain
Sarasota	38.6	CC	48"	cross drain
Sarasota	38.2	CC	72”	cross drain
Sarasota	37.1	NB & SB BDG		Main A Canal

County	Milepost	Type	Size	Full or Bifurcated Half Cross Drains
Sarasota	36.7	CBBC	Dbl 12’x10’	Phillippi Creek
Sarasota	35.9	CC	42"	cross drain
Sarasota	35.5	CBC	5'x5'	cross drain
Sarasota	34.8	CBC	8'x6'	cross drain
Sarasota	33.7	CC	36"	cross drain
Sarasota	33.3	CBC	Dbl 6'x5'	cross drain
Sarasota	32.3	CBC	Dbl 5'x4'	NB & SB Bifurcated cross drains
Sarasota	31.4	NB & SB BDG		Habatowski Creek
Sarasota	30.8	CBC	Dbl 8'x5'	NB & SB Bifurcated cross drains
Sarasota	30.2	NB & SB BDG		Sunrise Creek
Sarasota	29.9	CC	36"	NB & SB Bifurcated cross drains
Sarasota	29	CC	36"	NB & SB Bifurcated cross drains
Sarasota	27.8	CC	Dbl 48"	NB & SB Bifurcated cross drains
Sarasota	27.2	CBC	10'x6'	NB & SB Bifurcated cross drains
Sarasota	26.8	NB & SB BDG		Fox Creek
Sarasota	27.2	NB & SB BDG		Cowpen Slough
Sarasota	25.6	NB & SB BDG		Salt Creek
Sarasota	24.5	CBC	6'x3'	NB & SB Bifurcated cross drains
Sarasota	24	CC	26”x 45"	NB & SB Bifurcated cross drains

County	Milepost	Type	Size	Full or Bifurcated Half Cross Drains
Sarasota	23.9	CC	36"	NB & SB Bifurcated cross drains
Sarasota	23.7	CC	Dbl 48"	NB & SB Bifurcated cross drains
Sarasota	23.5	CC	36"	cross drain
Sarasota	23.5	CC	36"	cross drain
Sarasota	23	CC	54" SB, 48” NB	NB & SB Bifurcated cross drains
Sarasota	22.8	NB & SB BDG		Curry Creek
Sarasota	21.9	CC	30"	cross drain
Sarasota	21.8	CC	Dbl 42"	cross drain
Sarasota	20.8	CC	24"	cross drain
Sarasota	20.8	CC	30”	cross drain
Sarasota	20.78	CC	24"	cross drain
Sarasota	20.4	CC	36”	cross drain
Sarasota	20.3	CC	36"	cross drain

Cross Drain Types: CC – concrete culvert; BDG – bridge hydraulic crossing; CBC – concrete box culvert; CBBC – concrete bridge box culvert (width >= 20’); Dbl - double; NB – northbound, SB - southbound

Eighty-three existing stormwater management sites exist within the corridor limits, including seventy-eight stormwater treatment pond sites and five floodplain mitigation sites. The existing pond site inventory in **Table 3.8** also includes proposed pond sites that are scheduled to be in place by opening year 2025 identified by (*), and FDOT owned pond sites identified by (**) in the summary. The existing stormwater management inventory includes four pond site categories for alignment considerations; (1) Offsite Ponds for stand-alone site parcels that are outside of the corridor’s primary right of way, (2) Roadside Linear Ponds that are typically uniform width roadside ditch configurations (3) Contiguous Outside Ponds which are individual pond sites situated along the outside of the roadway and contiguous with the right of way, and (4) Median or Infield ponds including larger linear ponds within bifurcated medians and curvilinear ponds within interchange infields. The floodplain mitigation sites identified along the corridor are located onsite within bifurcated medians or outside border widths.

Table 3.8: Existing Stormwater Management Sites

I-75 (SR 93) CORRIDOR				EXISTING STORMWATER MANAGEMENT INVENTORY				Floodplain Mitigation Onsite
FPID	From Milepost	To Milepost	Side	Offsite Pond	Roadside Linear Pond	Contiguous Outside Pond	Median or Infield Pond	
MANATEE COUNTY								
201032-5-52-01	16.198	I-75 OVER MOCCASIN WALLOW ROAD						
406314-3-52-01	20.095	20.122	RT	X				
201032-5-52-01	11.092	11.159	LT			X(*)		
201032-5-52-01	11.077	11.172	LT				X(*)	
201032-5-52-01	9.447	9.797	RT		X(*)			
201032-5-52-01	9.431	9.645	MED				X(*)	
201032-5-52-01	8.566	8.683	RT		X(*)			
201032-5-52-01	8.598	8.725	MED				X(*)	
201032-5-52-01	8.566	8.683	LT		X(*)			
201032-6-52-01	7.354	7.524	RT			X		
201032-6-52-01	7.392	7.543	LT				X	
	7.350	I-75 OVER SR 64						
201032-6-52-01	7.278	7.335	LT				X	
201032-2-52-01	7.045	7.094	MED		X			
201032-2-52-01	6.662	7.041	MED		X			
201032-2-52-01	6.318	6.657	MED		X			
201032-2-52-01	5.994	6.314	MED				X	
201032-2-52-01	5.786	5.979	MED				X	
201032-2-52-01	5.646	5.765	MED				X	
201032-2-52-01	5.386	5.641	MED				X	
201032-2-52-01	5.208	5.375	MED				X	

I-75 (SR 93) CORRIDOR				EXISTING STORMWATER MANAGEMENT INVENTORY				Floodplain Mitigation Onsite
FPID	From Milepost	To Milepost	Side	Offsite Pond	Roadside Linear Pond	Contiguous Outside Pond	Median or Infield Pond	
201032-2-52-01	5.115	5.204	MED		X			
201032-2-52-01	4.527	5.075	MED		X			
201032-2-52-01	4.526	4.772	MED		X			
201032-2-52-01	4.356	4.49	MED				X	
201032-2-52-01	3.954	4.003	LT				X	
201032-2-52-01	3.825	3.964	RT			X		
201032-2-52-01	3.81	3.996	RT				X	
	3.801	I-75 OVER SR 70						
201032-2-52-01	3.668	3.734	RT				X	
201032-2-52-01	3.693	3.784	LT				X	
201032-2-52-01	3.089	3.26	MED				X	
201032-2-52-01	2.577	3.011	MED				X	
201032-2-52-01	2.178	2.575	MED		X			
201032-2-52-01	2.05	2.162	MED		X			
201032-2-52-01	1.866	2.046	MED		X			
201032-2-52-01	1.553	1.73	LT		X			
201032-2-52-01	1.346	1.657	MED		X			
201032-2-52-01	1.157	1.34	MED.		X			
201277-2-52-01	0.633	0.843	RT		X			
201277-2-52-01	0.644	0.816	LT		X			
201277-2-52-01	0.053	0.176	LT				X	
201277-2-52-01	0.034	0.199	RT				X	

I-75 (SR 93) CORRIDOR				EXISTING STORMWATER MANAGEMENT INVENTORY				Floodplain Mitigation Onsite
FPID	From Milepost	To Milepost	Side	Offsite Pond	Roadside Linear Pond	Contiguous Outside Pond	Median or Infield Pond	
Manatee (Ahead)	0.000	COUNTY LINE AT UNIVERSITY PARKWAY						
Sarasota (Back)	42.615							
SARASOTA COUNTY								
201032-4-52-01	42.479	42.614	RT				X	
201032-4-52-01	42.49	42.611	LT				X	
201032-4-52-01	41.88	42.043	LT		X			
201032-4-52-01	41.796	42.308	MED		X			
201032-4-52-01	41.601	41.767	MED		X			
201032-4-52-01	41.423	41.717	LT		X			
201032-4-52-01	41.18	41.438	RT		X			
201032-4-52-01	41.153	41.412	LT		X			
201032-4-52-01	40.551	40.964	MED		X			
201032-4-52-01	40.552	40.964	LT		X			
201032-4-52-01	40.263	40.49	MED		X			
201032-4-52-01	40.036	40.471	LT		X			
201277-5-52-01	36.966	37.079	RT	X(**)				
201277-5-52-01	35.711	35.842	LT			X(*), (**)		
	35.375	PROCTOR ROAD OVER I-75						
201277-3-52-01	34.409	34.576	LT				X*)	
201277-3-52-01	34.409	34.519	RT				X(*)	
	34.404	NB I-75 OVER SR 72 / CLARK ROAD						

I-75 (SR 93) CORRIDOR				EXISTING STORMWATER MANAGEMENT INVENTORY				Floodplain Mitigation Onsite
FPID	From Milepost	To Milepost	Side	Offsite Pond	Roadside Linear Pond	Contiguous Outside Pond	Median or Infield Pond	
201277-3-52-01	34.216	34.358	RT				X(*)	
201277-3-52-01	34.216	34.358	LT				X(*)	
406314-3-52-01	28.941	29.15	RT				X	
	28.820	SR 681 OVER NB I-75						
406314-3-52-01	27.9	28.018	LT			X		
406314-3-52-01	27.408	27.653	LT			X		
406314-3-52-01	27.031	27.12	RT			X		
406314-3-52-01	26.337	26.438	LT		X			
406314-3-52-01	26.646	26.715	RT			X		
406314-3-52-01	25.742	25.793	LT	X				
406314-3-52-01	25.337	25.611	MED		X			
406314-3-52-01	25.565	25.645	RT	X				
406314-3-52-01	25.3	25.414	MED				X	
406314-3-52-01	25.238	25.408	MED					X
406314-3-52-01	24.24	24.348	MED				X	
406314-3-52-01	23.634	23.759	MED				X	
406314-3-52-01	23.184	23.298	LT			X		
406314-3-52-01	23.077	23.446	LT		X			
406314-3-52-01	28.765	23.122	RT	X				
406314-3-52-01	22.954	23.029	MED					X
406314-3-52-01	22.878	22.897	MED					X
406314-3-52-01	22.783	22.897	LT					X
406314-3-52-01	22.67	22.821	RT					X

I-75 (SR 93) CORRIDOR				EXISTING STORMWATER MANAGEMENT INVENTORY				Floodplain Mitigation Onsite
FPID	From Milepost	To Milepost	Side	Offsite Pond	Roadside Linear Pond	Contiguous Outside Pond	Median or Infield Pond	
406314-3-52-01	22.554	22.665	RT			X		
406314-3-52-01	21.913	22.051	RT				X	
406314-3-52-01	21.456	21.533	RT			X		
406314-3-52-01	20.715	20.781	RT			X		
406314-3-52-01	20.522	20.577	RT			X		
406314-3-52-01	20.095	20.122	RT	X				
	19.926	I-75 OVER SR 777 / NORTH RIVER ROAD						

(*) Proposed pond scheduled to be in place by Opening Year 2025.
(**) FDOT owned pond site.

The Federal Emergency Management Agency (FEMA) provides Flood Insurance Rate Maps (FIRMs) to estimate a community's flooding risks. FEMA provides ongoing coordination with regulatory agencies and municipalities for establishing FIRM coverage of floodplain boundaries and base flood elevations. There are 21 FIRM panels defining floodplains and floodways within the I-75 North Corridor limits, including 12 FIRM panels in Sarasota County from south of SR 777 / North River Road to south of University Parkway, and 9 FIRM panels in Manatee County from University Parkway to north of Moccasin Wallow Road. The FIRMs are a result of coordination between FEMA and the Southwest Florida Water Management District (SWFWMD) in concert with Sarasota and Manatee Counties. Table 3.9 below provides a summary of FEMA Flood Insurance Rate Maps (FIRM) coverage for the I-75 Master Plan limits.

Table 3.9: FEMA Flood Insurance Rate Maps (FIRM)

SUMMARY OF FEMA FLOOD INSURANCE RATE MAPS (FIRM)		
I-75 (SR 93) CORRIDOR		
FIRM PANEL NO.	FROM	TO
MANATEE COUNTY		
12115C0351F	0.4 MILE SOUTH OF SR 777 / NORTH RIVER ROAD	0.8 MILE SOUTH OF JACARANDA BLVD
12081C0157E	0.75 MILE NORTH OF I-275	MOCCASIN WALLOW ROAD

SUMMARY OF FEMA FLOOD INSURANCE RATE MAPS (FIRM)		
I-75 (SR 93) CORRIDOR		
FIRM PANEL NO.	**FROM**	**TO**
12081C0159E	1 MILE SOUTH OF 69TH STREET EAST	0.75 MILE NORTH OF I-275
12081C0167E	US 301	1 MILE SOUTH OF 69TH STREET EAST
12081C0169E	1 MILE SOUTH OF MANATEE RIVER	US301
12081C0190E	1 MILE NORTH OF SR 64	1 MILE SOUTH OF MANATEE RIVER
12081C0326E	1 MILE SOUTH OF SR 64	1 MILE NORTH OF SR 64
12081C0327E	2.7 MILES NORTH OF SR 70	1 MILE SOUTH OF SR 64
12081C0329E	0.4 MILE SOUTH OF SR 70	2.7 MILES NORTH OF SR 70
12081C0340E	SARASOTA - MANATEE CO. LINE	0.4 MILE SOUTH OF SR 70
SARASOTA COUNTY		
12115C0064F	1.3 MILES SOUTH OF SARASOTA - MANATEE CO. LINE	SARASOTA - MANATEE CO. LINE
12115C0152F	NORTH OF SR 780 / FRUITVILLE ROAD	1.3 MILES SOUTH OF SARASOTA - MANATEE CO. LINE
12115C0154F	1.3 MILES NORTH OF SR 758 / BEE RIDGE ROAD	NORTH OF SR 780 / FRUITVILLE ROAD
12115C0162F	0.3 MILE SOUTH OF PROCTOR ROAD	1.3 MILES NORTH OF SR 758 / BEE RIDGE ROAD
12115C0164F	2-MILES SOUTH OF SR 72 / CLARK ROAD	0.3 MILE SOUTH OF PROCTOR ROAD
12115C0227F (NOT PRINTED)	SOUTH CREEK	2-MILES SOUTH OF SR 72 / CLARK ROAD
12115C0229F (NOT PRINTED)	SR 681	SOUTH CREEK
12115C0245F	COW PEN SLOUGH	SR 681
12115C0243F	EAST OF LAUREL ROAD	COW PEN SLOUGH
12115C0244F	0.25 MILE NORTH OF BORDER ROAD	EAST OF LAUREL ROAD

SUMMARY OF FEMA FLOOD INSURANCE RATE MAPS (FIRM)		
I-75 (SR 93) CORRIDOR		
FIRM PANEL NO.	FROM	TO
12115C0332F	0.8 MILE SOUTH OF JACARANDA BLVD	0.25 MILE NORTH OF BORDER ROAD
12115C0351F	0.4 MILE SOUTH OF SR 777 / NORTH RIVER ROAD	0.8 MILE SOUTH OF JACARANDA BLVD

3.1.8 Lighting

Within the Master Plan limits, lighting is located at interchange locations. High mast lighting is used for the interchanges with SR 777 / North River Road, Jacaranda Boulevard, Laurel Road, SR 681, SR 72 / Clark Road, SR 758 / Bee Ridge Road, SR 780 / Fruitville Road, SR 70, SR 64, US 301, I-275, and Moccasin Wallow Road. The interchange at University Parkway has conventional pole lighting.

3.1.9 Utilities

A Sunshine 811 design ticket request covering the Master Plan limits found 26 Utility Agency Owners which are listed in Table 3.10. Additional data regarding known utilities and locations was compiled from the previous PD&E studies along the corridor and is included in the table for reference; however, will need to be updated during future project-level PD&E studies.

Table 3.10: Utility Agency Owners

Utility Agency Owner	Utility Type	Contact	Utilities Identified in Previous PD&E Studies
ATT	Communication Lines, Fiber	Greg Jacobson 813-342-0512 Steve Hamer 813-888-8300 x201	2” PVC & 4” HDPE conduit system with a high capacity FOC
Black & Veatch Tampa 1F	Fiber	Stake Center (Manatee) 801-364-1063 Ken Soule (Sarasota) 913-458-4667	
Braden River Utilities, Inc.	Irrigation, Water	Ed Shupsky 941-757-1576	Facilities intersect I-75 at SR 70, SR 64, Kay Road, Moccasin Wallow Road, and Tidewater Preserve. Fiber

Utility Agency Owner	Utility Type	Contact	Utilities Identified in Previous PD&E Studies
			optics are contained within PVC conduit.
Century Link (Lumen)	Fiber	Ken Lutz 863-452-3185	
City of Bradenton	Sewer, Water	Kim Clayback 941-708-6300 x224	Serves Tidewater Preserve, which is adjacent to the project corridor. Water storage tank adjacent to I-75 at 4851 San Ortebello Drive.
City of Sarasota Utilities	Electric, Sewer, Water	Nick Furlan 941-365-2200 x6163	
City of Venice Utilities Department	Reuse Lines, Sewer, Water	Javier Vargas 941-882-7309	10” WM, 20” FM, and 16” Reclaimed WM crossing near STA 1364+00
Comcast	CATV	Kevin Miller 239-318-1411	Buried cables – Bee Ridge Road and University Parkway
Crown Castle NG	Fiber	Danny Haskett 786-610-7073	
Florida Gas Transmission	Gas	Joseph Sanchez 407-838-7171	Transmission main crossing I-75 north of SR 70. The pipeline is located in an easement near 50th Place East.
Florida Power & Light – Manatee	Electric	Distribution Todd Bolkema 941-927-4262 Transmission Craig Ledbetter 561-803-7942	Distribution facilities are located along 28th Avenue East (overhead), SR 64 (buried), Kay Road (buried), Tidewater Preserve (buried) and US 301 (buried), 69th Street East/Erie Road (buried), Moccasin Wallow Road (buried), and north of the Moccasin Wallow Road interchange (buried). Transmission facilities cross the I-75 at Tabbystone Place, Linger Lodge

Utility Agency Owner	Utility Type	Contact	Utilities Identified in Previous PD&E Studies
			Road, south of 41st Avenue East, and south of 48th Street Court East.
Florida Power & Light – Sarasota	Electric	Distribution Todd Bolkema 941-927-4262 Transmission Craig Ledbetter 561-803-7942	Buried electric along Bee Ridge Road and University Parkway. Overhead electric at Bee Ridge Road and near STA 1380+00
Frontier Communications	CATV, Communication Lines	Denise Hutton 941-906-6722	
Manatee County Transportation Department	Traffic Lights & Signals	Aaron Burkett 941-708-7510	
Manatee County Utilities	Reclaimed Water, Sewer, Water	Lorenzo Duarte 941-708-7450 x7373	8” – 36” WM and WWM that cross I-75 at University Parkway, Linger Lodge Road, SR 70, SR 64, Kay Road, US 301, Mendoza Road, 69th Street East, and Moccasin Wallow Road.
MCI	Communication Lines, Fiber	Field Contacts 800-624-9675	4” PVC an HDPE with fiber and copper cables with crossings at Linger Lodge Road, SR 70, SR 64, Kay Road, 48th Street Court East, Mendoza Road, 69th Street East/Erie Road, and Moccasin Wallow Road. Abandoned lines at US 301.
Myakka Communications Inc.	Fiber	Mark Ackaway 941-322-2916	

Utility Agency Owner	Utility Type	Contact	Utilities Identified in Previous PD&E Studies
Peace River Electric Cooperative, Inc.	Electric	David McClintlock 863-767-4621	Underground cables encased in galvanized pipe at Linger Lodge Road, SR 70, Mendoza Road, and 69th Street East/Erie Road. Overhead lines at 69th Street East/Erie Road. New facilities proposed at Mendoza Road.
Sarasota County Traffic	Traffic Signals	J.P. Marchand 941-378-6180	Communication interconnects at Clark Road, Bee Ridge Road, Fruitville Road and University Parkway
Sarasota County Utilities	Sewer, Water	Michael Mehan 941-861-0582	Jacaranda Boulevard, east side: 24" WM, 12" FM, and 18" WWM Reject cross I-75 Laurel Road, south side: 42" WW and 18" WWM Reject cross I-75 Clark Road & Bee Ridge Road: Reuse WM – 12" PVC, 16"/20" DIP; WM – 8"/12" PVC, 12"/16" DIP; FM 4"-20" PVC
Spectrum Sunshine State, LLC (Charter Communications)	CATV, Cable, Fiber, Telephone	Alex Fleming 941-213-0877	
Teco Peoples Gas-Sarasota	Gas	Alex McFarlane 813-275-3762	Existing Gas Main crossings at Clark Road, Bee Ridge Road, SR 70, SR 64, Tidewater Preserve, and US 301. Future (at time of previous PD&E) Gas Main crossings along north side River Road, west side of Jacaranda Boulevard, south side of Laurel Road, and Moccasin Wallow Road.
Uniti Fiber LLC	Fiber	David Woods 813-539-1180	

Utility Agency Owner	Utility Type	Contact	Utilities Identified in Previous PD&E Studies
Zayo Group LLC	Fiber	Matt Richards 813-587-2584	

DIP – Ductile Iron Pipe; FM – Force Main; FOC – Fiber Optic Cable; HDPE - High Density Polyethylene; PVC – Polyvinyl Chloride; WM – Water Main; WWM – Wastewater Main

Overhead power line crossings were also reviewed in FDOT's GIS database and Google Earth. There are 14 overhead power line crossings in the Master Plan limits with approximate locations by nearest roadway as follows.

- Northwest of Jacaranda Boulevard
- South of Laurel Road
- Between SR 681 and SR 72 / Clark Road
- North of SR 72 / Clark Road
- Between Proctor Road and SR 758 / Bee Ridge Road
- North of SR 758 / Bee Ridge Road
- North of Palmer Road
- Lakewood Ranch Boulevard
- Indigo Ridge Terrace
- Linger Lodge Road
- South of 41st Avenue East
- San Ortebello Drive South (Tidewater Preserve)
- Mendoza Road
- North of Mendoza Road

3.1.10 Pavement Type and Conditions

The current FDOT Interstate System Pavement Condition Forecast was consulted to review pavement cracking and pavement rideability ratings for I-75 within the project limits for each County. The 2021 values are shown in Table 3.11.

Table 3.11: Pavement Condition Forecast

I-75 (SR 93) CORRIDOR				Interstate System Pavement Condition Forecast Data			
County	From Milepost	To Milepost	Side	2021 Crack Rating	2021 Ride Rating	Pavement Surface Type	Year Constructed or Last Resurfaced
Manatee	15.756	20.571	LT	10	8.8	FC-5	2018
Manatee	15.7	20.571	RT	10	8.9	FC-5	2018
Manatee	13.376	15.756	LT	9	8.5	FC-5	2010

I-75 (SR 93) CORRIDOR				Interstate System Pavement Condition Forecast Data			
County	From Milepost	To Milepost	Side	2021 Crack Rating	2021 Ride Rating	Pavement Surface Type	Year Constructed or Last Resurfaced
Manatee	12.963	15.7	RT	7.5	8.4	FC-5	2010
Manatee	12.736	13.376	LT	10	8.6	FC-5	2016
Manatee	12.38	12.963	RT	10	8.6	FC-5	2016
Manatee	11.049	12.736	LT	9	8.4	FC-5	2010
Manatee	11.049	12.38	RT	9	8.6	FC-5	2010
Manatee	8.235	11.049	LT	9	8.4	FC-5	2010
Manatee	8.235	11.049	RT	9	8.8	FC-5	2010
Manatee	7.292	8.235	LT	10	8.7	FC-5	2020
Manatee	6.6	8.235	RT	10	8.6	FC-5	2020
Manatee	0	7.292	LT	9	8.3	FC-5	2010
Manatee	0	6.6	RT	9	8.4	FC-5	2010
Sarasota	39.6	42.615	RT	10	8.7	FC-5	2018
Sarasota	39.3	42.615	LT	10	8.7	FC-5	2018
Sarasota	29.519	39.6	RT	7.5	8.6	FC-5	2009
Sarasota	29.039	39.3	LT	7.5	8.6	FC-5	2009
Sarasota	20.315	29.039	LT	9	8.5	FC-5	2013
Sarasota	20.068	29.519	RT	9	8.7	FC-5	2013

The pavement crack ratings and ride ratings are all above a satisfactory level for the project limits. Crack ratings less than 6.4 are considered deficient. Ride ratings less than 6.4 are also considered deficient. Rideability of I-75 within the project limits is well above the deficiency threshold even with future degradation considered. Within Sarasota County, the ten-mile stretch of interstate between mileposts 29.039 and 39.600 is nearing the crack deficiency level for both directions of travel. For Manatee County, the three-mile stretch of interstate between mileposts 12.963 and 15.700 is nearing the crack deficiency level in the northbound direction of travel.

3.1.11 Multimodal Facilities

The *Existing Conditions Traffic Technical Memorandum* describes bicycle, pedestrian, and transit facilities along I-75 and each of the crossroads that interchange with I-75 and should be referred to for detailed descriptions. Generally, sidewalks are present on the following crossroads: SR 758 / Bee Ridge Road, University Parkway, SR 70 and SR 64. Bicycle lanes are present on SR 780 / Fruitville Road, University Parkway, SR 70, SR 64, US 301, and Moccasin Wallow Road.

Sarasota County Area Transit Route 3 (Downtown/Bahia Vista/Cattlemen) traverses through the Fruitville interchange. Route 14 (Downtown/Southgate/Bee Ridge) traverses the I-75 interchange with SR 758 / Bee Ridge Road.

Manatee County Area Transit has two routes that cross I-75: Route 12 (SR 70) traverses the I-75 interchange area at SR 70 to connect both ends of this route and Route 1 (Ellenton Outlet Mall) traverses the I-75 interchange area at US 301 to connect both ends of those routes. There are no transit routes along I-75 in Manatee County.

A summary of pedestrian, bicycle and transit accommodations at each interchange is provided in Table 3.12.

Table 3.12: Summary of Pedestrian, Bicycle and Transit Accommodations by Interchange

Interchange	Sidewalks	Bike Lanes	Transit Routes
Moccasin Wallow Road	Not Present	Present	Not Present
I-275	Not Present	Not Present	Not Present
US 301	Not Present	Present	Present
SR 64	Present	Present	Present
SR 70	Present	Present	Present
University Parkway	Present	Present	Not Present
SR 780 / Fruitville Road	Not Present	Present	Present
SR 758 / Bee Ridge Road	Present	Not Present	Present
SR 72 / Clark Road	Not Present	Not Present	Present
SR 681	Not Present	Not Present	Present
Laurel Road	Not Present	Not Present	Present
Jacaranda Boulevard	Not Present	Not Present	Present
SR 777 / North River Road	Not Present	Not Present	Present

3.1.12 Railroads

There is one railroad facility in the vicinity of I-75 in the Master Plan limits. The track crosses under I-75 approximately one-half mile north of 37th Street East near milepost 13 in Manatee County (DOT

Crossing Inventory Number 621484F). Florida Power and Light (FP&L) purchased this track from CSX Transportation. The track serves the FP&L power plant in north Manatee County.

3.1.13 Signage

The existing interstate signing is primarily comprised of major guide signs both multi-post ground mounted and overhead cantilever/truss mounted methods of installation in compliance with Chapters 2E, 2H, 2I and 2M of the current edition of MUTCD. The existing guide signs are classified in the following categories:

- Interchange Signs
- Interchange Sequence Signs
- Community Interchanges Identification Signs
- Weigh Station Signing
- General Service Signs
- Recreational and Cultural Interest Area Signs

The existing 2- Lane exit ramps with optional lane have various different guide signing which are based on current and previous editions of the MUTCD. The entire interstate includes all required regulatory and warning signs in compliance with the Chapters 2B and 2C of the current edition of MUTCD.

The existing regulatory signs on the interstate are mainly Speed Limit, Yield, Emergency Stopping, and Slow Traffic Signs. The existing warning signs on the interstate are mainly Ramp Advisory Speed/Exit signs, merging signs, and object markers.

3.1.14 Intelligent Transportation Systems (ITS)

The existing ITS infrastructure on the interstate through Sarasota and Manatee Counties were installed under FPIDs: 414730-1-52-01, 414732-1-52-01, and 414736-1-52-01 in 2014. The plans covered new infrastructure from north of Kings Highway in Sarasota County to south of I-275 in Manatee County. The backbone is located on the east side LA Right of way line throughout the project limits. ITS features are treated in the following categories:

- Fiber Optic -Based communication for the entire length
- Dynamic message Signs
- CCTV cameras for Surveillance, and for DMS legend confirmation
- Microwave Vehicle Detection (MVDS)
- Highway Advisory Radio Signs
- Wrong Way Vehicle Detection System
- Master Communication Hubs
- Power Substations with Diesel Fuel Generators for Power Backup

3.2 Existing Structures

3.2.1 Existing Bridges - Summary

The existing structures along I-75 from south of River Road to north of Moccasin Wallow Road include sixty-six (66) bridges located at thirty-six (36) sites consisting of local roads, railroad corridor, waterways, overpasses, and interchange layouts as indicated in **Table 3.13** and **Figure 3.8**. Additional information is provided at each specific bridge site in **Table 3.14** which includes the route carried, location type, bridge type, year originally constructed, and year of widening or rehabilitation, if applicable.

The bridges are grouped by geographic location and listed in the tables from the southern-most to northern-most sites along the project limits. This approach is used to easily identify a single bridge or group of bridges at a particular site, regardless of replacement status that may result in non-sequential bridge numbers being assigned for newer structures.

Currently there are two on-going construction projects within the project limits. The I-75 / SR-70 Interchange is in construction and I-75 over US 301 / Manatee River is anticipated to start construction soon. The information provided in this report is based on existing plans, records, and bridge inspection reports for the original bridges at each of these locations. These construction projects are not complete at the time of this report.

Table 3.13: Classification of Existing Bridges

Legend	Classification	Number of Locations	Number of Bridges
	Bridge over Local Road	3	6
	Bridge over Railroad	1	2
	Bridge over I-75	6	7
	Bridge over Water	11	22
	Bridge Culvert	3	5
	Interchange	12	24
	Total	36	66

Figure 3.8: Existing Bridge Locations

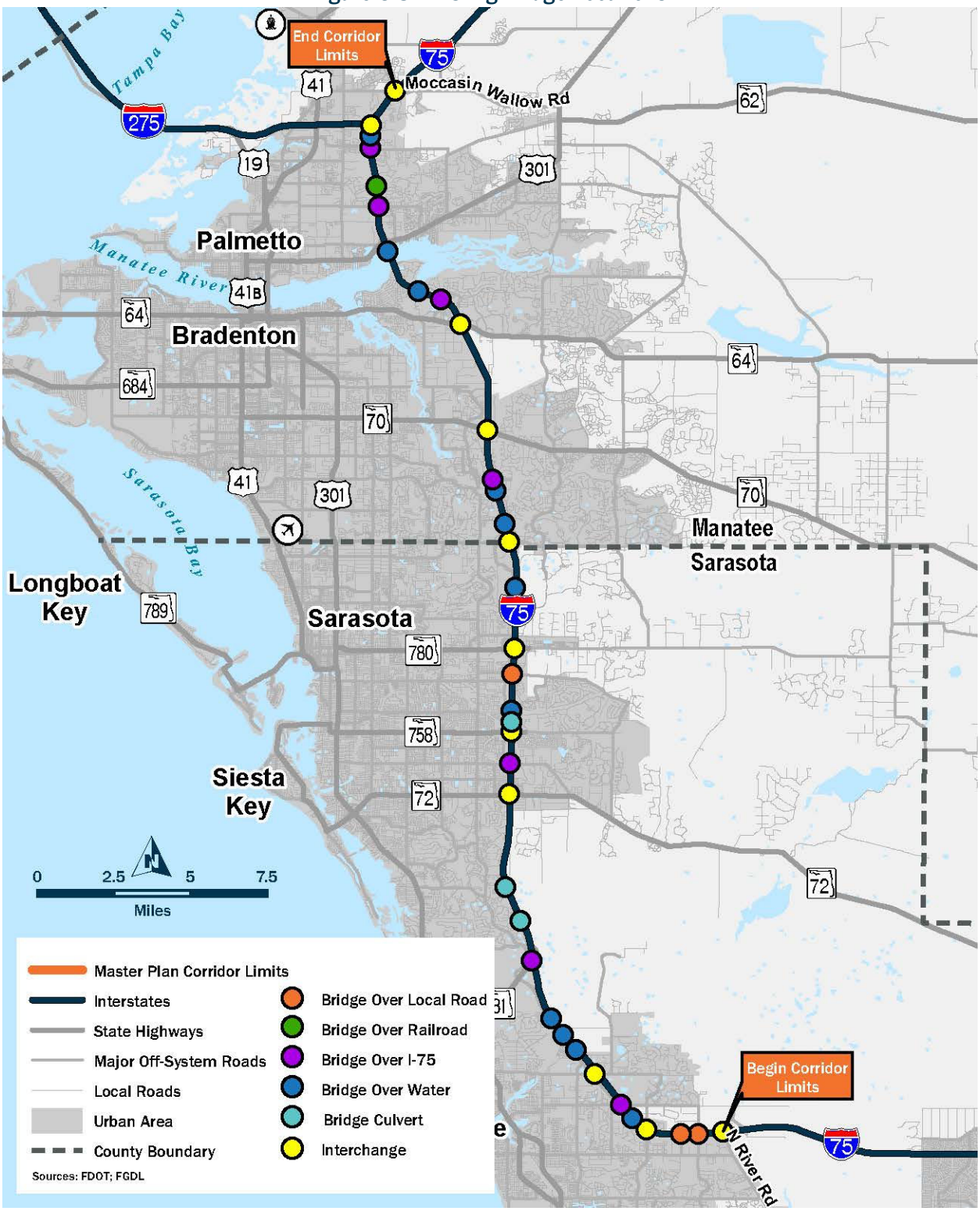


Table 3.14: Existing Bridges - Summary

Bridge Number	Location Description	Classification	Bridge Type	Year Built	Year Rehab
130079	I-75 NB (SR-93) over Moccasin Wallow Road	Interchange	Prestressed Concrete	1980	2003
130078	I-75 SB (SR-93) over Moccasin Wallow Road	Interchange	Prestressed Concrete	1980	2003
130112	I-275 SB to I-75 NB over I-75 And I-275 Ramps	Interchange	Steel Continuous / Prestressed Concrete	1981	2019
130090	I-275 NB over I-75 (SR-93)	Interchange	Steel Continuous	1981	2009
130109	I-75 NB (SR-93) over Buffalo Canal	Bridge over Water	Concrete	1981	-
130108	I-75 SB (SR-93) & Ramp B over Buffalo Canal	Bridge over Water	Concrete	1981	-
130089	Erie Road (69th St E) over I-75 (SR-93)	Bridge over I-75	Steel Continuous	1980	-
130076	I-75 NB (SR-93) over CSX R/R	Bridge over Railroad	Prestressed Concrete	1981	2004
130075	I-75 SB (SR-93) over CSX R/R	Bridge over Railroad	Prestressed Concrete	1981	2004
130107	Mendoza Road over I-75 (SR-93)	Bridge over I-75	Prestressed Concrete	1980	-
130104	I-75 NB (SR-93) over US-301/ Manatee River	Bridge over Water	Prestressed Concrete	1980	-
130103	I-75 SB (SR-93) over US-301/Manatee River	Bridge over Water	Prestressed Concrete	1980	-
130102	I-75 (SR-93) NB over Salt Marsh	Bridge over Water	Prestressed Concrete	1980	-
130101	I-75 SB (SR-93) over Salt Marsh	Bridge over Water	Prestressed Concrete	1980	-
130100	Kay Road over I-75 (SR-93)	Bridge over I-75	Prestressed Concrete	1980	-
130162	I-75 (SR-93) Ramp D2 over SR 64	Interchange	Prestressed Concrete	2019	-
130085	I-75 NB (SR-93) over SR-64	Interchange	Prestressed Concrete	1980	2004
130084	I-75 SB (SR-93) over SR-64	Interchange	Prestressed Concrete	1980	2004
130068	I-75 NB (SR-93) over SR-70	Interchange	Prestressed Concrete	1979	-
130067	I-75 SB (SR-93) over SR-70	Interchange	Prestressed Concrete	1979	-
130069	Linger Lodge Road over I-75 (SR-93)	Bridge over I-75	Prestressed Concrete	1978	-
130066	I-75 NB (SR-93) over Braden River	Bridge over Water	Prestressed Concrete	1979	2020
130065	I-75 SB (SR-93) over Braden River	Bridge over Water	Prestressed Concrete	1979	2020
130071	I-75 NB (SR-93) over Foley Creek	Bridge over Water	Prestressed Concrete	1979	-
130070	I-75 SB (SR-93) over Foley Creek	Bridge over Water	Prestressed Concrete	1979	2016
130160	I-75 NB (SR-93) over University Parkway	Interchange	Prestressed Concrete	2017	-

Bridge Number	Location Description	Classification	Bridge Type	Year Built	Year Rehab
130161	I-75 SB (SR-93) over University Parkway	Interchange	Prestressed Concrete	2016	-
170078	I-75 NB (SR-93) over Errie Creek	Bridge over Water	Prestressed Concrete	1979	2016
170077	I-75 SB (SR-93) over Errie Creek	Bridge over Water	Prestressed Concrete	1979	2016
170084	I-75 NB (SR-93) over Fruitville Road (SR-780)	Interchange	Prestressed Concrete	1979	-
170083	I-75 SB (SR-93) over Fruitville Road (SR-780)	Interchange	Prestressed Concrete	1979	-
170082	I-75 NB (SR-93) over Palmer Boulevard	Bridge over Local Road	Prestressed Concrete	1979	2007
170081	I-75 SB (SR-93) over Palmer Boulevard	Bridge over Local Road	Prestressed Concrete	1979	2007
170080	I-75 NB (SR-93) over Main A Canal	Bridge over Water	Prestressed Concrete	1979	2006
170079	I-75 SB (SR-93) over Main A Canal	Bridge over Water	Prestressed Concrete	1979	2006
170151	I-75 SB (SR-93) over Phillippi Creek	Bridge Culvert	Concrete	1981	-
170146	I-75 NB (SR-93) over Bee Ridge Road	Interchange	Prestressed Concrete	1981	2001
170145	I-75 SB (SR-93) over Bee Ridge Road	Interchange	Prestressed Concrete	1981	2001
170143	Proctor Road over I-75 (SR-93)	Bridge over I-75	Prestressed Concrete Continuous	1980	-
170086	I-75 NB (SR-93) over SR-72 (Clark Road)	Interchange	Prestressed Concrete	1980	2001
170085	I-75 SB (SR-93) over SR-72 (Clark Road)	Interchange	Prestressed Concrete	1980	2001
170150	I-75 NB (SR-93) over Habatowski Creek	Bridge Culvert	Concrete	1981	-
170149	I-75 SB (SR-93) over Habatowski Creek	Bridge Culvert	Concrete	1981	-
170148	I-75 NB (SR-93) over Sunrise Creek	Bridge Culvert	Concrete	1981	-
170147	I-75 SB (SR-93) over Sunrise Creek	Bridge Culvert	Concrete	1981	-
170113	SR-681 over I-75 (SR-93)	Interchange	Steel Continuous	1980	-
170112	I-75 NB (SR-93) over Fox Creek	Bridge over Water	Prestressed Concrete	1979	2012
170111	I-75 SB (SR-93) over Fox Creek	Bridge over Water	Prestressed Concrete	1979	2012
170110	I-75 NB (SR-93) over Cowpen Slough	Bridge over Water	Prestressed Concrete	1979	2012
170178	I-75 SB (SR-93) over Cowpen Slough	Bridge over Water	Prestressed Concrete	2012	-
170108	I-75 NB (SR-93) over Salt Creek	Bridge over Water	Prestressed Concrete	1979	2012
170177	I-75 SB (SR-93) over Salt Creek	Bridge over Water	Prestressed Concrete	2012	-

Bridge Number	Location Description	Classification	Bridge Type	Year Built	Year Rehab
170106	Laurel Road over I-75 NB (SR-93)	Interchange	Prestressed Concrete	1980	1996
170105	Laurel Road over I-75 SB (SR-93)	Interchange	Prestressed Concrete	1980	1995
170104	Border Road over I-75 NB (SR-93)	Bridge over I-75	Prestressed Concrete	1980	-
170103	Border Road over I-75 SB (SR-93)	Bridge over I-75	Prestressed Concrete	1980	-
170102	I-75 NB (SR-93) over Curry Creek	Bridge over Water	Prestressed Concrete	1980	2012
170101	I-75 SB (SR-93) over Curry Creek	Bridge over Water	Prestressed Concrete	1980	2012
170095	I-75 NB (SR-93) over Jacaranda Boulevard	Interchange	Steel	1979	2008
170096	I-75 SB (SR-93) over Jacaranda Boulevard	Interchange	Steel	1979	2008
170094	I-75 NB (SR-93) over Havana Road	Bridge over Local Road	Prestressed Concrete	1979	2007
170093	I-75 SB (SR-93) over Havana Road	Bridge over Local Road	Prestressed Concrete	1979	2007
170092	I-75 NB (SR-93) over Jackson Road	Bridge over Local Road	Prestressed Concrete	1979	2008
170091	I-75 SB (SR-93) over Jackson Road	Bridge over Local Road	Prestressed Concrete	1979	2008
170089	I-75 NB (SR-93) over North River Road	Interchange	Prestressed Concrete	1979	2007
170090	I-75 SB (SR-93) over North River Road	Interchange	Prestressed Concrete	1979	2007

3.2.2 Existing Bridges - Health Data

All the existing bridges are evaluated in accordance with 2021 FDOT and AASHTO criteria. The evaluation of the existing bridges includes an assessment of characteristics such as bridge width, bridge lengths, type of bridge (prestressed concrete beam, steel girder, etc.), vertical and horizontal clearances, and load posting information. The evaluation also includes a condition assessment from the latest bridge inspection reports involving items such as National Bridge Institute (NBI) overall conditions, Health Index, and Sufficiency Ratings.

The “Health Index” is a tool that measures the overall condition of a bridge. The Health Index typically includes 10 to 12 different elements that are evaluated by the Department. A lower Health Index means that more work would be required to improve the bridge to an acceptable condition. A Health Index below 85.0 generally indicates that some repairs are needed; however, it does not necessarily mean the bridge is unsafe. A low Health Index may also indicate that it would be more economical to replace the bridge than to repair it.

The “Sufficiency Rating” is a tool that is used to help determine whether a bridge that is structurally deficient or functionally obsolete should be repaired or replaced. The Sufficiency Rating considers several factors, only about half of which relate to the condition of the bridge itself. A Sufficiency Rating below 80.0 generally indicates that a rehabilitation may be required while a rating below 50.0 indicates that the bridge is eligible for replacement.

The term “Structurally Deficient” means that there are significant load carrying elements, specifically the deck, superstructure, and substructure, that were rated in poor or worse condition (a code of 4 or less) during the last inspection. The term “Functionally Obsolete” means that a bridge does not meet the current design standards for traffic operations.

Table 3.15 summarizes the existing bridge health data within the project limits. The correlations of the key findings per the latest inspection reports are as follows:

- Health Index
  - Sixty (60) bridges are greater than 85.0
  - Six (6) bridges are less than 85.0
    - Bridge No. 130103 is rated at 83.93
    - Bridge No. 170151 is rated at 66.7
    - Bridge Nos. 170147, 170148, 170149, and 170150 have ratings ranging from 34.90 to 35.07
- Sufficiency Rating
  - Sixty-four (64) bridges are greater than 80.0
  - Two (2) Bridges are marginally less than 80.0
    - Bridge No. 170081 is rated at 78.3
    - Bridge No. 170113 is rated at 77.1
- Structurally Deficient
  - None of the bridges have this designation
- Functionally Obsolete
  - Bridge Nos. 170145 and 170146 have this designation

The Health Index for Bridge Nos. 130103 and 170147 thru 170151 may require additional repairs to be performed beyond typical routine maintenance. Bridge No. 130103 is marginally below 85.0 while Bridge No. 170151 is well below this value and Bridge Nos. 170147 thru 170150 are significantly lacking.

The Sufficiency Rating for Bridge Nos. 170081 and 170113 may require minor items to be addressed, as they are marginally below 80.0, in terms of the three main categories considered in determining the rating value: structural adequacy and safety, serviceability and functional obsolescence, and essentiality for public use. The threshold value of 80.0 is used as general indicator and improvements to increase this rating is not a necessity.

A Functionally Obsolete bridge needs to have at least one of the following five criteria appraised as intolerable and requiring corrective action: deck geometry, vertical and horizontal under clearances, approach roadway alignment, structural evaluation, or waterway adequacy. The two bridges located at I-75 over Bee Ridge Road Interchange (Bridge Nos. 170145 and 170146) are reported as Functionally Obsolete with Item 69 – Under clearances being assigned a rating of 3 (Intolerable – Correct). These bridges have an appraisal rating greater than 3 for the other applicable items associated with Functionally Obsolete criteria.

Table 3.15: Existing Bridges - Health Data

Bridge Number	Health Index	Sufficiency Rating	Functionally Obsolete	Structurally Deficient	NBI Deck	NBI Superstructure	NBI Substructure
130079	98.87	98	No	No	7 Good	7 Good	7 Good
130078	99.27	98	No	No	7 Good	7 Good	7 Good
130112	86	87.5	No	No	8 Very Good	7 Good	6 Satisfactory
130090	98.59	95.6	No	No	7 Good	7 Good	7 Good
130109	95.43	95.8	No	No	7 Good	7 Good	7 Good
130108	96.66	95.8	No	No	7 Good	7 Good	7 Good
130089	98.27	91.3	No	No	7 Good	7 Good	7 Good
130076	97.74	95.6	No	No	7 Good	7 Good	7 Good
130075	98.66	95.6	No	No	7 Good	7 Good	7 Good
130107	99.82	93.5	No	No	7 Good	7 Good	8 Very Good
130104	86.73	95.2	No	No	6 Satisfactory	6 Satisfactory	7 Good
130103	**83.93**	95.2	No	No	6 Satisfactory	6 Satisfactory	7 Good
130102	95.2	95.2	No	No	6 Satisfactory	7 Good	7 Good
130101	92.32	95.2	No	No	7 Good	7 Good	7 Good
130100	98.75	95.5	No	No	7 Good	7 Good	8 Very Good
130162	98.29	98	No	No	8 Very Good	7 Good	8 Very Good
130085	97.32	95	No	No	6 Satisfactory	7 Good	7 Good
130084	97.1	95	No	No	6 Satisfactory	7 Good	7 Good
130068	99.74	97.9	No	No	7 Good	7 Good	7 Good
130067	99.4	93.9	No	No	7 Good	7 Good	7 Good
130069	99.58	95.8	No	No	7 Good	7 Good	7 Good
130066	92.27	94.8	No	No	7 Good	7 Good	7 Good
130065	97.25	93.8	No	No	7 Good		
130071	99.94	94.9	No	No	7 Good		
130070	99.96	93.1	No	No	7 Good		
130160	99.93	90.8	No	No	8 Very Good		
130161	98.23	92.8	No	No	8 Very Good	7 Good	8 Very Good
170078	90	94.8	No	No	7 Good	7 Good	7 Good
170077	97.44	94.8	No	No	7 Good	7 Good	7 Good
170084	98.97	94.2	No	No	7 Good	7 Good	7 Good
170083	95.55	94.1	No	No	7 Good	7 Good	7 Good
170082	97.84	93.1	No	No	7 Good		
170081	96.93	**78.3**	No	No	7 Good	5 Fair	7 Good
170080	99.75	95.1	No	No	7 Good	8 Very Good	7 Good
170079	99.87	95.1	No	No	7 Good	8 Very Good	7 Good
170151	**66.7**	83	No	No	7 Minor Deterioration		
170146	99.78	90.2	**Yes**	No	7 Good	7 Good	7 Good

Bridge Number	Health Index	Sufficiency Rating	Functionally Obsolete	Structurally Deficient	NBI Deck	NBI Superstructure	NBI Substructure
170145	99.35	91	**Yes**	No	7 Good	7 Good	7 Good
170143	97.43	88	No	No	7 Good	7 Good	7 Good
170086	99.18	98	No	No	7 Good	7 Good	7 Good
170085	98.67	98	No	No	7 Good	7 Good	7 Good
170150	**34.9**	80.3	No	No	6 Deterioration		
170149	**35.07**	80.3	No	No	6 Deterioration		
170148	**34.95**	80.3	No	No	6 Deterioration		
170147	**34.99**	80.3	No	No	6 Deterioration		
170113	99.09	**77.1**	No	No	7 Good	7 Good	8 Very Good
170112	97.42	94.1	No	No	7 Good	7 Good	7 Good
170111	97.09	94.1	No	No	7 Good	7 Good	7 Good
170110	96.66	96	No	No	7 Good	7 Good	7 Good
170178	98.93	93.9	No	No	8 Very Good	7 Good	7 Good
170108	98.55	96	No	No	7 Good	7 Good	7 Good
170177	99.33	96	No	No	8 Very Good	8 Very Good	8 Very Good
170106	99.39	94.1	No	No	7 Good	7 Good	7 Good
170105	99.58	94.1	No	No	7 Good	6 Satisfactory	7 Good
170104	99.92	97.1	No	No	7 Good	7 Good	7 Good
170103	99.68	96.1	No	No	7 Good	7 Good	7 Good
170102	90.12	96	No	No	7 Good	7 Good	7 Good
170101	89.72	96	No	No	7 Good	7 Good	7 Good
170095	98.08	96.3	No	No	6 Satisfactory	8 Very Good	8 Very Good
170096	95.65	96.3	No	No	6 Satisfactory	7 Good	8 Very Good
170094	99.27	96.3	No	No	7 Good	7 Good	8 Very Good
170093	99.37	96.3	No	No	7 Good	8 Very Good	8 Very Good
170092	97.92	96.3	No	No	8 Very Good	7 Good	8 Very Good
170091	99.37	96.3	No	No	8 Very Good	7 Good	8 Very Good
170089	98.87	98	No	No	7 Good	7 Good	8 Very Good
170090	99.22	98	No	No	7 Good	7 Good	8 Very Good
170090	99.22	98	No	No	7 Good	7 Good	8 Very Good

3.2.3 Existing Bridges - Typical Section Characteristics

The existing typical section for the bridges along I-75 and overpass roadways is provided in **Table 3.16.** This table provides characteristics related to lanes, shoulders, and clear roadway width at each bridge location. The clear roadway width is defined as the distance between opposing railing faces on a bridge deck. For bridge culverts refer to **Figure 3.1** for the existing roadway typical section associated with the culvert location.

Table 3.16: Existing Bridges - Typical Section Characteristics

Bridge Number	No. of Lanes	Lane Width (feet)	Inside Shoulder Width (feet)	Outside Shoulder Width (feet)	Clear Roadway Width (feet)
130079	4	12	10	10	68
130078	3	12	10	10	56
130112	1	15	15	6	36
130090	2	12	10	6	40
130109	3	12	10	10	56
130108	5	12	10	10	Varies from 83 (min.) to 90 (max.)
130089	2	12	8	8	40
130076	3	12	10	10	56
130075	3	12	10	10	56
130107	2	15	10	10	50
130104	3	12	10	10	56
130103	3	12	10	10	56
130102	3	12	10	10	56
130101	3	12	10	10	56
130100	2	12	8	8	40
130162	1	15	6	6	27
130085	4	12	10	6	64
130084	4	12	10	6	64
130068	4	12	10	6	64
130067	4	12	10	6	64
130069	2	12	8	8	40
130066	3	12	10	10	56
130065	3	12	10	10	56
130071	5	12	10	10	80
130070	4	12	10	10	68
130160	3	12	12	10	58
130161	3	12	12	10	58
170078	4	12	10	10	68
170077	4	12	10	10	68
170084	4	12	10	6	64
170083	4	12	10	6	64
170082	3	12	10	10	56
170081	3	12	10	10	56
170080	3	12	10	10	56
170079	3	12	10	10	56
170151	Bridge Culvert – **See Figure 3.1**				

Bridge Number	No. of Lanes	Lane Width (feet)	Inside Shoulder Width (feet)	Outside Shoulder Width (feet)	Clear Roadway Width (feet)
170146	4	12	10	6	64
170145	3	12	10	10	56
170143	2	12	8	8	40
170086	3	12	10	10	56
170085	3	12	10	10	56
170150	Bridge Culvert – **See Figure 3.1**				
170149	Bridge Culvert – **See Figure 3.1**				
170148	Bridge Culvert – **See Figure 3.1**				
170147	Bridge Culvert – **See Figure 3.1**				
170113	2	12	10	6	40
170112	3	12	10	10	56
170111	3	12	10	10	56
170110	3	12	10	10	56
170178	3	12	10	10	56
170108	3	12	10	10	56
170177	3	12	10	10	56
170106	6	12	6	6	84
170105	5	12	10	10	80
170104	2	12	8	8	40
170103	2	12	8	8	40
170102	3	12	10	10	56
170101	3	12	10	10	56
170095	4	12	14	6	68
170096	3	12	10	10	56
170094	3	12	10	10	56
170093	3	12	10	10	56
170092	3	12	10	10	56
170091	3	12	10	10	56
170089	3	12	10	10	56
170090	3	12	10	10	56

3.2.4 Existing Bridges - Geometric Characteristics

Additional bridge geometric information is provided in **Table 3.17** including structure width and length, number of spans, and max span length in addition to the bridge clearances. This information is based on the values provided in the Inspection Reports for each bridge location.

The FDM outlines vertical clearance requirements in Table 260.6.1 - Minimum Vertical Clearances for Bridges. The criteria are differentiated by "New Construction" or "Resurfacing, Restoration, and Rehabilitation (RRR)" projects with each group having additional factors to consider based on type of

crossing (limited access roadway; arterial or collector) and bridge type (new bridge or existing bridge). The clearance requirement values range from 16.5 feet for all new bridges over roadways, 16.0 feet. for new construction affecting existing bridge and RRR projects consisting of roadway or railroad bridge over limited access roadway, while RRR projects with roadway or railroad bridge over arterial or collector roadway is 14.5 feet. There are ten (10) bridges that have are identified based on vertical clearances being reported in the inspection reports to be less than 16.0 feet.

- Six (6) bridges (Bridge Nos. 170095, 170096, 170146, 170081, 130084, 130085) are classified as a roadway bridge over arterial or collector roadways where a minimum vertical clearance of 14.5 feet is allowed for RRR projects, but 16.0 feet is required for new construction affecting existing bridges. The project type will influence if these bridges meet minimum FDOT criteria as the vertical clearance is greater than 14.5 feet but less than 16.0 feet at these locations.
- Four (4) bridges (Bridge Nos. 170105, 170106, 170113, 130069) are classified as a roadway bridge over limited access roadway, which requires 16.0 feet for RRR projects and for new construction affecting existing bridges. These bridges do not meet minimum FDOT criteria as the vertical clearance is less than 16.0 feet.

The FDM provides more stringent horizontal clearance requirements in Table 215.2.2 – Minimum Lateral Offset Criteria than what is defined by AASHTO Recording and Coding Guide requirements Table 3B – Minimum Lateral Underclearance, however the coding value provided in the inspection report is based on the AASHTO Recording and Coding Guide requirements. The two bridges (Bridge Nos. 170145 and 17016) have minimum lateral underclearance (horizontal clearance) of 2.6 feet based on information provided in the inspection reports and are assigned a value of 3 for Item 69 – Underclearance, which makes these bridges Functionally Obsolete per FHWA criteria. For this classification to change the minimum allowed clearance needs to be 5.9 feet or greater, then a value of 4 is assigned which is considered acceptable without requiring corrective action.

Additional measures, such as installation of barriers, may be deemed appropriate for meeting the requirements provided in FDM Table 215.2.2 – Minimum Lateral Offset Criteria with consideration given to crash histories, site conditions, shoulder widths, traffic counts, traffic mixes, design speed, etc. when reviewing existing or proposed bridge requirements for new construction projects. The FDM classifies barrier types into three (3) groups; Flexible, Semi-Rigid, and Rigid. There are five (5) bridges (Bridge Nos. 170085, 170086, 130103, 130104, and 130112) where no barrier is provided. The lateral offsets at these locations appears to be deficient based on completing a desktop review using Google Earth. In addition, there are five (5) bridges (Bridge Nos. 170143, 130100, 130107, 130089, 130090) that only have flexible barriers installed. This type of barrier has the greatest deflection and may not be suitable for these locations at the specified offset distance relative to the bridge support location. Other interchange locations (Bridge Nos. 170145, 170146, 170083, 170084, 130069, 130067, 130068, 130084, 130085, 130078, and 130079) have semi-rigid or rigid barriers installed at one bridge support while other support locations may be located outside the required setback distance and do not require a barrier. The remaining locations have either semi-rigid or rigid barriers installed for all applicable bridge supports within the required setback distance and appear to meet deflection criteria.

Bridge Nos. 130075 and 130076 are located over CSX railroad track and have no provisions for crash walls. Based on FDM 220 and Structures Design Guidelines, the requirement for existing bridges

crossing over railroad right of way to have crash walls installed is not clearly defined. For new construction or widening of existing bridges, evaluate the need for crash walls if new substructure components provide less than 25 feet lateral offset from center line of track.

Navigable Waterways are limited to Bridge Nos. 130103 and 130104, which are located over multiple roadways and the Manatee River. The clearances provided in **Table 3.17** represent the values for the portion of the bridge located over roadway. The Navigation Data information from the inspection report lists the vertical clearance for the channel as 40 feet with the horizontal clearance as 76 feet with in-place and functioning pier protection for the channel. The remaining bridges over water within the project limits are over non-navigable waterways in which vertical and horizontal clearances are not required to be provided in the bridge inspection reports and pier protection is not required for the in-water bridge supports.

Table 3.17: Existing Bridges - Geometric Characteristics

Bridge Number	Structure Length (feet)	Structure Width (feet)	Number of Spans	Maximum Span Length (feet)	Minimum Horizontal Clearance (feet)	Minimum Vertical Clearance (feet)
130079	290	70.5	4	100.1	11.33	16.3
130078	285	59.7	4	98.1	10.43	16.2
130112	2249	38.4	6	251	10	16.3
130090	708.4	43	4	242.9	28.27	16.7
130109	109.9	58.7	4	29.9	N/A[1]	N/A[1]
130108	109.9	85.8	4	30.5	N/A[1]	N/A[1]
130089	344	43	2	172	29.5	16
130076	171.9	58.7	3	81	24.9	23.2
130075	171.9	58.7	3	79.1	24.9	23.2
130107	284.1	53.6	4	111.8	29.8	16
1301042	3824.8	58.4	41	109.9	30.2	16.4
1301032	3824.8	58.4	41	109.9	30.2	16
130102	1568.2	58.7	26	60.4	N/A[1]	N/A[1]
130101	1146.7	58.8	19	60.4	N/A[1]	N/A[1]
130100	423.9	42.6	5	117.1	30.5	16.6
130162	303.7	30	2	151.9	30	16.6
130085	305.1	66.9	4	108.9	28.6	**15.8**
130084	305.1	66.9	4	109.9	28.6	**15.8**
130068	266.7	66.9	4	95	19.1	16
130067	257.9	66.9	4	92.8	16	16.7
130069	292	43.5	4	116.1	30.2	**15.7**
130066	550	70.9	11	49.9	N/A[1]	N/A[1]
130065	600	70.9	12	49.9	N/A[1]	N/A[1]
130071	190	83.1	4	47.9	N/A[1]	N/A[1]
130070	190	71.1	4	47.9	N/A[1]	N/A[1]

Bridge Number	Structure Length (feet)	Structure Width (feet)	Number of Spans	Maximum Span Length (feet)	Minimum Horizontal Clearance (feet)	Minimum Vertical Clearance (feet)
130160	278	61.5	2	139	9	18
130161	278	61.5	2	139	6	18
170078	142.5	71	3	47.5	N/A[1]	N/A[1]
170077	142.5	71	3	47.5	N/A[1]	N/A[1]
170084	239	66.9	4	88.9	16.8	16.2
170083	240	66.9	4	89.5	16.8	16.2
170082	136	58.7	3	60	6.7	16.5
170081	136	59	3	60	6.5	**15.7**
170080	181	58.6	3	60.5	N/A[1]	N/A[1]
170079	181	58.6	3	60.5	N/A[1]	N/A[1]
170151	24.8	N/A	2	12	N/A[1]	N/A[1]
170146	191	67.5	3	119	**2.6**	**15.8**
170145	191	59	3	119	**2.6**	16.1
170143	281.2	42.7	2	141.1	27.2	16.2
170086	241.3	59.5	4	87.9	18.5	16.1
170085	241.3	59.5	4	87.9	18.5	16.1
170150	30.8	N/A	3	9.6	N/A[1]	N/A[1]
170149	30.8	N/A	3	9.6	N/A[1]	N/A[1]
170148	30.8	N/A	3	9.6	N/A[1]	N/A[1]
170147	30.8	N/A	3	9.6	N/A[1]	N/A[1]
170113	850.1	42.6	7	131.9	12.5	**15.8**
170112	104	59	2	52	N/A[1]	N/A[1]
170111	99.7	59	2	50	N/A[1]	N/A[1]
170110	234.6	59	3	78.1	N/A[1]	N/A[1]
170178	255	59	3	85	N/A[1]	N/A[1]
170108	330	58.9	5	66	N/A[1]	N/A[1]
170177	331	59	4	100	N/A[1]	N/A[1]
170106	180.1	93	3	107.9	12.4	**15.8**
170105	181.1	93.1	3	108.9	12.8	**15.9**
170104	182.1	42.6	3	107	14.8	16.4
170103	196.9	42.6	3	116.1	12.8	16.1
170102	114.2	59	3	38.1	N/A[1]	N/A[1]
170101	119.1	59	3	40	N/A[1]	N/A[1]
170095	219.2	71.1	3	132.8	16.1	**15.9**
170096	219.1	59	3	132.6	16.1	**15.9**
170094	128	59	3	60	17.3	16.8

Bridge Number	Structure Length (feet)	Structure Width (feet)	Number of Spans	Maximum Span Length (feet)	Minimum Horizontal Clearance (feet)	Minimum Vertical Clearance (feet)
170093	128	59	3	60	17.3	16.8
170092	125	58.8	3	59	17.1	16.3
170091	125	58.8	3	59	16.9	16.3
170089	216	59.1	2	108	19.1	16.5
170090	216	59.1	2	108	17.8	16.1

[1] Bridge intersects waterways with no navigation control requirements. Clearances not required.
[2] Bridge intersects roadway and waterway with navigation control requirements. Information provided is based on roadway data, See Navigable Waterways section for channel data.

3.2.5 Existing Bridges - Load Rating and Posting

Current FDOT Bridge Load Rating procedures for rehabilitation or widening of existing bridges as defined by Chapter 2 of the FDOT Load Rating Manual requires a Load Resistance Factor rating value exceeding 1.0 for HL-93 Inventory and FL120 Permit loads, which is a Load Rating of 36 tons and 120 tons respectively. Alternatively, for Load Factor Rating (LFR) ratings, HS20 – Inventory ratings must exceed 1.0, or 36 tons, and HS20 – Operating ratings must exceed 1.67, or 60 tons. Per FDOT Structures Design Guidelines 7.1.1.A, if any LFR inventory rating factors remain less than 1.0, replacement or strengthening is required unless a Design Variation is approved.

The bridges along the project corridor are load rated using a variety of procedures as outlined in **Table 3.18**. Based on the review of the existing bridge load rating values there are four (4) that have values below the threshold set for LFR ratings for rehabilitation or widening of existing bridges. Bridge Nos. 170108 and 130071 do not meet the minimum LFR Operating rating of 60 tons while Bridge No. 170143 has an LFR Inventory rating less than 36 tons. In addition, Bridge No. 170113 does not meet either inventory or operating minimum LFR rating requirements. However, these bridges rate at or above 1.0 for the seven Florida Legal Loads and two Emergency Vehicles with no restrictions or requirements for load posting.

Table 3.18: Existing Bridges - Load Rating and Posting

Bridge Number	Original Design Load [1]	Load Rating Design Vehicle	Load Rating Procedure Used [1]	Inventory Rating (tons)	Operating Rating (tons)	Load Rating Date
130079	HS20	HS20	LFR	36	60.1	6/2/2009
130078	HS20	HS20	LFR	36	60.1	6/2/2009
130112	HS20+Mod	HS20	LRFR	37.4	41.4	10/23/2019
130090	HL-93	HL-93	LRFR	42	55	12/4/2009
130109	HS20+Mod	HS20	LFR	41.2	68.9	12/3/2009
130108	HS20+Mod	HS20	LFR	39.7	66.4	12/3/2009
130089	HS20+Mod	HS20	LFR	57.6	96.3	6/9/2011
130076	HS20+Mod	HS20	LFR	37.5	61.8	10/27/2004

Bridge Number	Original Design Load [1]	Load Rating Design Vehicle	Load Rating Procedure Used [1]	Inventory Rating (tons)	Operating Rating (tons)	Load Rating Date
130075	HS20+Mod	HS20	LFR	39.1	64.5	10/27/2004
130107	HS20	HS20	ASR	48	58	1/21/1992
130104	HS20	HS20	LFR	43	72	7/15/2008
130103	HS20	HS20	LFR	43	72	7/15/2008
130102	HS20+Mod	HS20	ASR	60	67	1/22/1992
130101	HS20+Mod	HS20	ASR	60	67	1/22/1992
130100	HS20+Mod	HS20	ASR	53	68	1/21/1992
130162	HL-93	HL-93	LRFR	46.1	67.7	2/28/2019
130085	HS20	HS20	LFR	38.1	63.5	10/27/2004
130084	HS20	HS20	LFR	38.1	63.5	10/27/2004
130068	HS20+Mod	HS20	ASR	46	56	12/11/1991
130067	HS20+Mod	HS20	ASR	46	56	12/11/1991
130069	HS20+Mod	HS20	ASR	51	62	12/11/1991
130066	HS20+Mod	HS20	LFR	36	60.1	11/22/2017
130065	HS20+Mod	HS20	LFR	36	60.1	11/27/2017
130071	HS20+Mod	HS20	LFR	36	**55.8**	8/4/2016
130070	HS20+Mod	HS20	LFR	37.7	63	8/4/2016
130160	HL-93	HL-93	LRFR	40	44.3	2/11/2015
130161	HL-93	HL-93	LRFR	40	44.3	2/11/2015
170078	HL-93	HL-93	LRFR	40	46.1	3/22/2017
170077	HL-93	HL-93	LRFR	40	46.1	3/22/2017
170084	HS20+Mod	HS20	LFR	37.7	63	8/10/2010
170083	HS20+Mod	HS20	LFR	37.7	63	8/10/2010
170082	HS20+Mod	HS20	LFR	36	60.1	7/23/2007
170081	HS20	HS20	LFR	40.3	67.4	11/8/2013
170080	HL-93	HL-93	LRFR	44.6	58	9/12/2006
170079	HL-93	HL-93	LRFR	44.6	58	9/12/2006
170151	HS20+Mod	HS20	LFR	66.5	99.9	9/2/2010
170146	HS20+Mod	HS20	LFR	36.9	61.6	12/22/1999
170145	HS20+Mod	HS20	LFR	36.9	61.6	11/3/2010
170143	HS20+Mod	HS20	LRFR	**27.5**	36	1/21/2020
170086	HS20+Mod	HS20	ASR	53	61	2/19/1992
170085	HS20+Mod	HS20	ASR	53	61	2/19/1992
170150	HS20+Mod	HS20	LFR	63	99.9	9/16/2010
170149	HS20+Mod	HS20	LFR	63	99.9	9/16/2010
170148	HS20+Mod	HS20	LFR	63	99.9	9/16/2010
170147	HS20+Mod	HS20	LFR	63	99.9	9/16/2010

Bridge Number	Original Design Load [1]	Load Rating Design Vehicle	Load Rating Procedure Used [1]	Inventory Rating (tons)	Operating Rating (tons)	Load Rating Date
170113	HS20+Mod	HS20	LRFR	**27.3**	**35.2**	11/16/2011
170112	HL-93	HL-93	LRFR	48.6	63	4/27/2012
170111	HL-93	HL-93	LRFR	51.8	67.3	4/27/2012
170110	HS20	HS20	LFR	41.4	69.1	4/17/2012
170178	HL-93	HL-93	LRFR	37.1	41	4/17/2012
170108	HS20	HS20	LFR	36	**59.8**	4/27/2012
170177	HL-93	HL-93	LRFR	37.4	41.8	4/27/2012
170106	HL-93	HL-93	LRFR	42.1	47.9	10/6/2009
170105	HL-93	HL-93	LRFR	47.2	54.4	10/3/2009
170104	HS20+Mod	HS20	LFR	40.8	68.2	7/27/2010
170103	HS20+Mod	HS20	LFR	40.6	67.8	7/27/2010
170102	HS20	HS20	LFR	36	60.1	4/27/2012
170101	HS20	HS20	LFR	37.4	62.6	4/27/2012
170095	HL-93	HL-93	LRFR	39.6	51.1	5/27/2008
170096	HL-93	HL-93	LRFR	42.1	54.7	5/27/2008
170094	HS20	HS20	LFR	38.3	63.7	1/29/2010
170093	HS20	HS20	LFR	38.3	63.7	1/29/2010
170092	HS20	HS20	LFR	38.2	63.7	1/29/2010
170091	HS20	HS20	LFR	38.2	63.7	1/29/2010
170089	HL-93	HL-93	LRFR	36.7	41.4	10/16/2006
170090	HL-93	HL-93	LRFR	36.7	41.4	10/16/2006

HS20+Mod: Standard HS20 plus the addition of the military load
LRFR: Load and Resistance Factor Rating
LFR: Load Factor Rating
ASR: Allowable Stress Rating

3.3 Existing Environmental Features

Existing environmental features were reviewed to identify potential opportunities, impacts, and agency coordination required for projects along the corridor. Data for existing environmental features was collected using the Efficient Transportation Decision Making (ETDM) number 14399 Preliminary Programming Screen Report and other desktop resources. The Programming Screen Geographic Information System (GIS) analysis lists the resources within various buffered distances (100-, 200-, 500-, 1320-, 2640-, and 5280- feet). The appropriate buffer for existing conditions discussion depends on the resource type. The Preliminary Programming Screen was published on October 11, 2019 when this project was expected to be a Project Development and Environment (PD&E) Study. It included the same limits as this master plan and is available at https://etdmpub.fla-etat.org/est/#.

3.3.1 Social and Economic

3.3.1.1 Social Features

The ETDM Environmental Screening Tool Sociocultural Data Report (SDR) was used to obtain Master Plan area demographic data. Block groups within 500 feet of the project corridor were used to approximate Master Plan area demographic data using 2017 American Community Survey, Five-Year Estimates. The SDR identified 2,714 households and a population of 6,463 people within the Master Plan area. The Master Plan area is within Manatee and Sarasota Counties.

The median household income is approximately $66,117 annually, with seven percent of households below the poverty level. Approximately 1.25 percent of households in the Master Plan area receive some form of public assistance. As shown in **Table 3.19**, the Master Plan area has a higher median income and lower poverty rate than Manatee and Sarasota Counties overall.

The Master Plan area population is comprised of approximately 13.83 percent minority, which is lower than both counties. Most persons identifying as a minority are "Hispanic or Latino of Any Race" (7.67%), "Black or African American Alone" (2.4%) or "Asian Alone" (2.34%). Seven of the 44 census block groups in the Master Plan area contain a minority population greater than 40 percent. During the Programming Screen, the U.S. Environmental Protection Agency (USEPA) noted that three block groups with a minority population greater than 40% abut intersections or interchanges that may need improvement.

The median age of persons in the Master Plan area is 51, with persons age 65 and over comprising approximately 31.4 percent of the population. The counties overall have a higher median age and composition of persons age 65 and older than the state. Approximately eight percent of the Master Plan area population between the ages of 20 and 64 have a disability.

Most of the Master Plan area population speaks English with only 0.58% not able to speak English well or at all.

Table 3.19: Socioeconomic Data

Area	2017 Population	Median House-hold Income	Percent Households Below Poverty	Percent Households Receiving Public Assistance	Percent Minority	Percent with Disability (Age 20 – 64)	Median Age	Percent Limited English Speaking
Master Plan Area	6,463	$66,117	7.0%	1.25%	13.83%	8%	51	0.58%
Sarasota	404,839	$55,236	9.69%	1.3%	16.51%	10.5%	55	2.08%
Manatee	363,542	$53,408	11.64%	2.3%	28.13%	10.67%	48	2.93%

Source: 2017 American Community Survey, Five-Year Estimates

Community facilities within 500 feet of the project are listed in **Table 3.20**. There are two cultural centers, two emergency services, one school and two religious centers within 500 feet of the Master Plan Corridor.

Table 3.20: Community Facilities within 500 Feet

Facility Name	Address
Cultural Centers	
Keiser University Libraries Sarasota Campus	6151 Lake Osprey Drive
Fruitville Public Library	100 Coburn Road
Emergency Services	
North River Fire Department Station 5	9805 Gateway Boulevard
Sarasota County Sheriff's Office – Headquarters	6010 Cattleridge Boulevard
Schools	
Keiser University – Sarasota	6151 Lake Osprey Drive
Religious Centers	
Church of Hope	1560 Wendell
Lutheran Brotherhood	401 Commercial Court Suite F

3.3.1.2 Economic

I-75 is part of Florida's Strategic Intermodal System (SIS) highway network, providing regional access to employment centers, agricultural lands, and residential areas across the state as well as facilitating the movement of significant commuter, visitor, and freight traffic. Specific economic features that occur within the 500-foot project buffer include: two brownfields, 22 Developments of Regional Impact, and 41 Planned Unit Developments.

According to the Bureau of Economic and Business Research (BEBR), Sarasota and Manatee Counties are expected to grow by 31 percent in the next 15 years and 60 percent by 2045. By 2045, Manatee County is expected to reach more than 550,000 people and Sarasota County is expected to reach 522,000 people (BEBR, 2019). Areas of concentrated population growth within each county are present along the I-75 Master Plan limits.

The Florida Department of Economic Opportunity (FDEO) commented during the Programming Screen that the project has little potential to attract new development. Short-term construction-related jobs could be generated.

3.3.1.3 Land Use

A 500-foot buffer was used to review land use surrounding the corridor. Within the buffer, there are seven census designated places: Bee Ridge, Bradenton, Ellenton, Fruitville, Lake Sarasota, Sarasota Springs, and Venice. GIS analysis of identified predominant land uses to be residential, agricultural, commercial/retail/office and vacant nonresidential. **Table 3.21** shows the breakdown of 2018 parcel-derived generalized land uses within 500 feet and **Figure 3.9** displays existing land uses on a map.

The 2018 parcel-derived generalized land uses were used because they are more recently updated than the 2011 Southwest Florida Water Management District (SWFWMD) Florida Land Use and Land Cover layer; however, they did not include a breakdown of all uses. According to the 2011 SWFWMD Florida Land Use and Land Cover layer, other major uses such as transportation, upland forests, or wetlands account for approximately 31 percent, 12 percent, and 11 percent, respectively (note that additional land has been developed since the 2011 SWFWMD layer).

According to the Future Land Use Maps of Sarasota and Manatee Counties, the area surrounding the project corridor is expected to continue to support current urban uses, particularly with the conversion of existing agricultural land. Future land use from each county is mapped in **Figure 3.10**.

The Manatee County 2035 Future Traffic Circulation Number of Lanes Map shows I-75 as a ten-lane facility. The Sarasota County Comprehensive Plan 2040 Future Thoroughfare Plan shows I-75 as an eight-lane facility between Jacaranda Boulevard and University Parkway.

FDEO commented during the Programming Screen that the proposed improvements on I-75 will relieve pressure on US 41 and mitigate negative impact on the City of Bradenton's adopted Form-Based Code for US 41. FDEO noted that Manatee County staff indicated that while the project is consistent with the County's goals, objectives, and policies, the facility is identified on the 2035 Future Traffic Circulation Number of Lanes Map as a ten-lane facility; as such, any proposal to widen the facility with additional lanes will require a comprehensive plan amendment. FDEO reported that the Master Plan area is not located within an Area of Critical State Concern nor does it encroach on a military base. FDEO stated that portions of the Master Plan limits are located within the Coastal High Hazard Area in the City of Bradenton and unincorporated Manatee County.

The SIS 2045 Cost Feasible Plan includes managed lanes on I-75 from South of River Road to Moccasin Wallow Road. PD&E and Design are included for the entire limits from 2029 to 2035. Right of way is shown for 2036-2040 from North of University Parkway to Moccasin Wallow Road and 2041-2045 from South of River Road to North of University Parkway. Construction is shown for 2036-2045 for North of University Parkway to Moccasin Wallow Road.

Table 3.21: Existing Land Use

Generalized Land Use	Acres	Percent
Agricultural	893.60	11.67%
Industrial	159.75	2.09%
Institutional	90.36	1.18%
Mining	1.71	0.02%
Public/Semi-Public	258.19	3.37%
Recreational	252.06	3.29%
Residential	968.7	12.66%
Retail/Office	647.31	8.46%

Generalized Land Use	Acres	Percent
Vacant Nonresidential	380.73	4.97%
Vacant Residential	164.69	2.15%

Source: University of Florida GeoPlan Center, 2018

3.3.1.4 Farmlands

A 200-foot buffer was used to review farmlands. The 200-foot buffer consists of 1,847.72 acres [47.09%] of soils classified as Farmlands of Unique Importance of which 69.77 [1.79%] are designated for agricultural purposes [crop and pastureland, nurseries and vineyards, other open lands (rural), row crops, specialty farms, and tree crops]. These soils are scattered along the length of the project corridor. It should be noted that most of the area along the project corridor has been developed. In addition, most of the project corridor occurs within the Sarasota - Bradenton Urbanized Area. Further, the Future Land Use Maps of both Sarasota and Manatee Counties indicate that the corridor will largely continue to support urban uses. No agencies commented on farmlands during the Programming Screen. **Figure 3.11** shows Farmlands of Unique Importance which are designated for agricultural purposes and the urbanized area boundary.

Figure 3.9: Existing Land Use

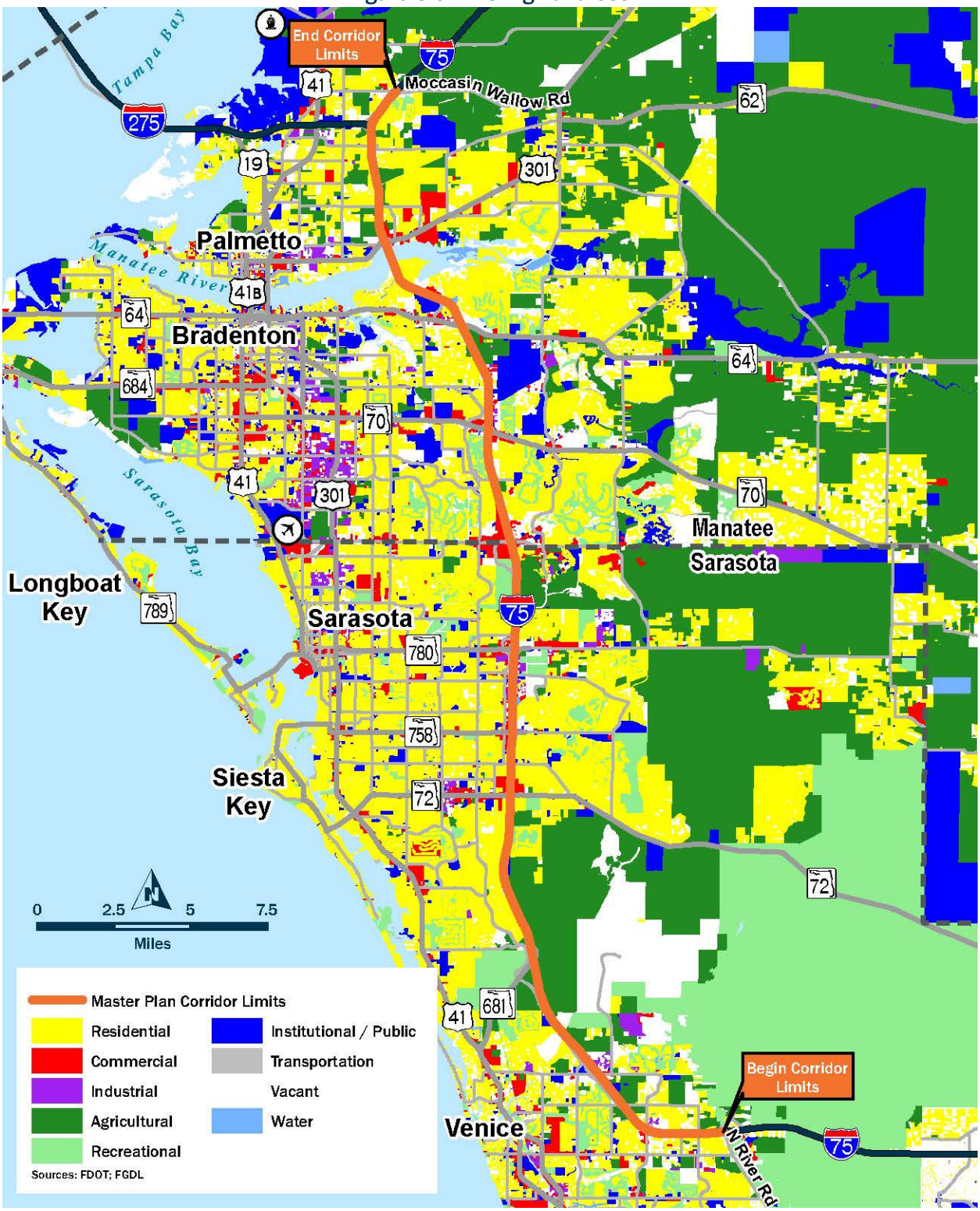


Figure 3.10: Future Land Use

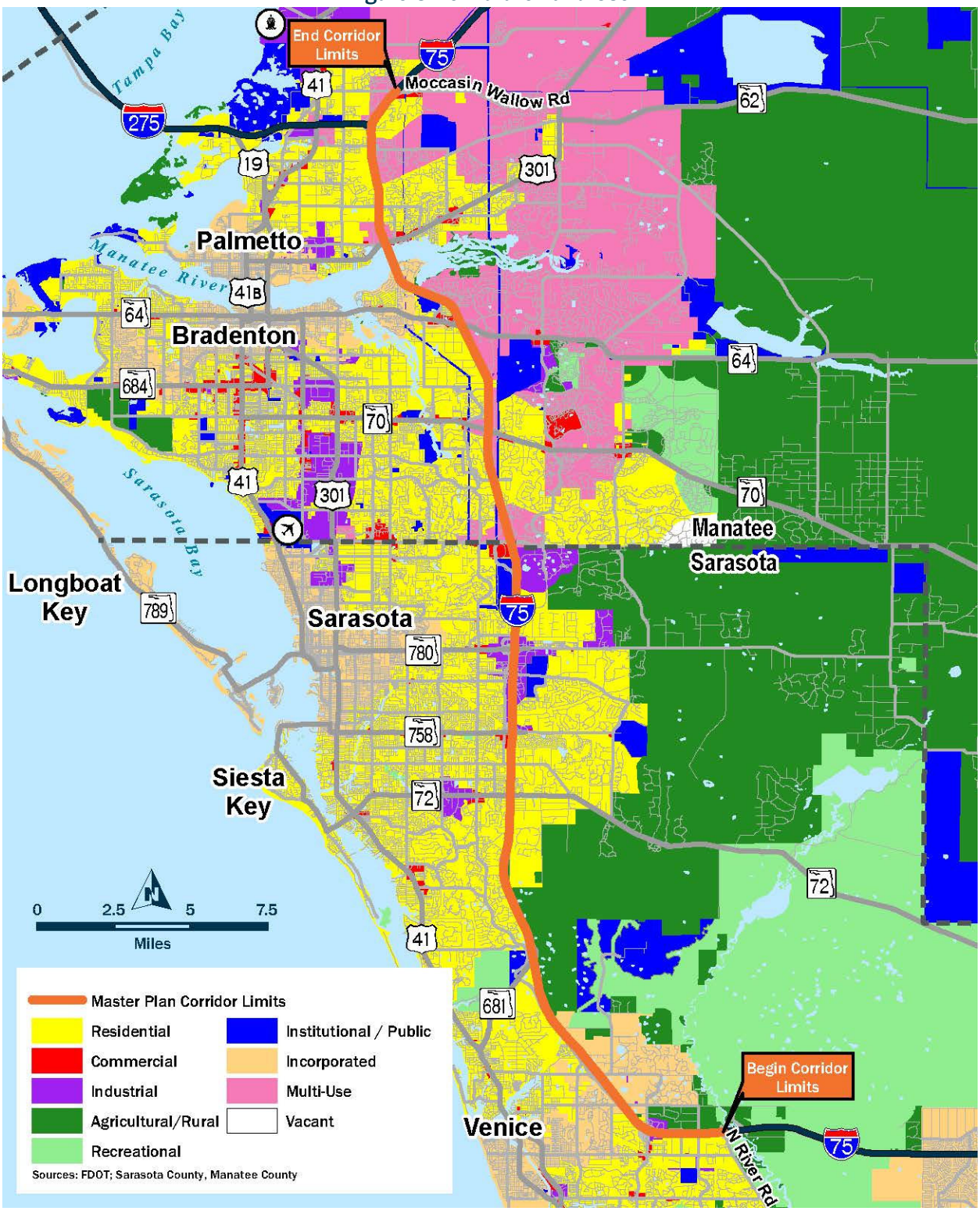


Figure 3.11: Farmlands

3.3.2 Cultural Resources

3.3.2.1 Historic and Archaeological

Historic resources within the Programming Screen 500-foot buffer are documented in **Table 3.22**. There are 16 previously recorded historic resources within 500 feet of the corridor, including structures, resource groups and one 1912 historic cemetery. Most of these resources are either National Register of Historic Places (NRHP)-ineligible or have not been evaluated by the State Historic Preservation Officer (SHPO). There is a potential for unmarked burials to extend outside the currently defined boundaries of the cemetery; any proposed subsurface improvements may need to consider this. Research also reveals that there are likely numerous unrecorded resources within 500 feet of the corridor.

Archaeological resources within the Programming Screen 500-foot buffer are documented in **Table 3.23.** Eight previously recorded archaeological sites are within 500 feet of the corridor. Although the project area has been previously surveyed between 2008 and 2019, there may be unrecorded historic resources within the area of potential effect.

During the Programming Screen, the Seminole Tribe of Florida noted the potential to affect unknown resources. SWFWMD commented that any impacts to historic or archaeological sites on SWFWMD owned/controlled lands will be considered as part of an Environmental Resource Permit (ERP) application and communication from the SHPO will be required.

Table 3.22: Historic Resources

Site ID	Site Name	Year Built	Survey Evaluation	SHPO Evaluation
Standing Structures				
SO02380	987-991 S Packinghouse Road	C1927	Eligible	Not Evaluated
SO02381	997 Paschal Place	C1925	Ineligible	Not Evaluated
SO06970	6190 Richardson Lane	C1959	Ineligible	Not Evaluated
MA01624	Mierswa, Michael G.	1940	Ineligible	Not Evaluated
MA02042	Imperial Farms, Inc.	C1965	Ineligible	Ineligible
MA02054	6730 Moccasin Wallow Road	C1965	Ineligible	Ineligible
Resource Groups				
SO02622	Seaboard Air Line Railway	NA		Eligible
SO02660	Palmer Farms Canal #52	NA		Not Evaluated
SO03200	Fruitville Drainage District Canal Main A	NA		Ineligible

Site ID	Site Name	Year Built	Survey Evaluation	SHPO Evaluation
SO06275	Fruitville Drainage District	NA		Ineligible
SO06927	Bee Ridge Road	NA		Ineligible
SO06979	900 Coburn Road	NA		Ineligible
SO07078	River Road	NA		Not Evaluated
MA01381	Seaboard Railroad Segment	NA		Insufficient Information
MA01445	Buffalo Canal	NA		Ineligible
Cemeteries				
MA01636	Robonia Terra Ceia Cemetery	C1912		Insufficient Information

Source: Florida Master Site File, 2019

Table 3.23: Archaeological Resources

Site ID	Site Name	Site Type	Site Culture	Survey Evaluation	SHPO Evaluation
SO03980	Hawkins Road	Land-Terrestrial	19th Century American, 1821-1899	Ineligible	Ineligible
SO00391	One Horn	Lithic Scatter / Quarry	Archaic, 8500 B.C. – 1000 B.C.	Not Evaluated	Not Evaluated
SO01901	Interstate Midden	Land-Terrestrial	Prehistoric lacking pottery	Ineligible	Ineligible
MA01497	Lena1	Land-Terrestrial	Prehistoric with pottery	Insufficient Information	Ineligible
MA01633	Pond U3-1	Land-Terrestrial	Prehistoric	Insufficient Information	Insufficient Information
MA00011	Rocky Bluff	Land-Terrestrial	Prehistoric	Ineligible	Not Evaluated
MA00038	NN	Campsite (Prehistoric)	Glades, 1000 B.C. – A.D. 1700	Ineligible	Ineligible

Site ID	Site Name	Site Type	Site Culture	Survey Evaluation	SHPO Evaluation
MA00047	NN	Land-Terrestrial	Prehistoric	Ineligible	Not Evaluated

Source: Florida Master Site File, 2019

3.3.2.2 Recreation

The following recreational areas/features are reported within 500 feet of the corridor: five Florida Managed Areas; one Florida Forever Board of Trustees Project [Terra Ceia], which coincides with one of the Florida Managed Areas [Tampa Bay Estuarine Ecosystem - Terra Ceia]; six local park and recreational facilities; seven existing recreational trails; seven Office of Greenways and Trails (OGT) multi-use trail opportunities [three of which are also OGT hiking trail priorities and two of which are part of the Shared-Use Nonmotorized (SUN) trail network]; and two OGT paddling trail opportunities. **Table 3.24** Lists the recreation areas/features and **Figure 3.12** displays their locations on a map.

The Florida Department of Environmental Protection (FDEP) and SWFWMD commented during the Programming Screen that each have recreational resources within 500 feet of the corridor. SWFWMD commented that any impacts to SWFWMD owned/controlled lands will be considered as part of an ERP application.

Table 3.24: Recreation Areas/Features

Name	Type	Owner / Manager
Florida Managed Areas		
Fox Creek	Natural Area	Sarasota County
Scherer Thaxton Preserve	Natural Area	Sarasota County
Sleeping Turtles Preserve North	Natural Area	Sarasota County
Sleeping Turtles Preserve South	Natural Area	Sarasota County
Tampa Bay Estuarine Ecosystem – Terra Ceia (Also a Florida Forever Board of Trustees Project)	Preserve	SWFWMD
Local Park and Recreation Facilities		
Bennett Park	Nature Park	Manatee County
Celery Fields and Palmer Gazebo	Nature Park	Sarasota County
Nathan Benderson Park and Aquatic Center	Neighborhood / Mixed Use	Sarasota County
Scherer Thaxton Preserve Trailhead	Nature Park / Trailhead	Sarasota County

Name	Type	Owner / Manager
Sleeping Turtles Preserve South Trailhead	Nature Park / Trailhead	Sarasota County
Twin Lakes Park	Neighborhood / Mixed Use	Sarasota County
Trails		
Carlton-Myakkahatchee Corridor	OGT Multi-Use Opportunity	NA
Dona Bay Trail	Existing Paddling	Sarasota County
Fruitville Road Conceptual	OGT Multi-Use Opportunity & Hiking Priority	NA
Laurel Road Trail	Existing Multiuse	Sarasota County
Manatee County Blueway Trail	Existing Paddling	Manatee County
Myakka River Trail	Existing Paddling	Sarasota County
Oscar Sherer Buffer Trail	Existing Hiking	Sarasota County
Paddle Manatee Trails Corridor	OGT Paddling Trail Opportunity	NA
Paddle Sarasota Blueway	OGT Paddling Trail Opportunity	NA
Roberts Bay Trail	Existing Paddling	Sarasota County
Sarasota County Trail	Existing Multi-Use	Sarasota County
Sarasota Regional Trail Corridor	OGT Multi-Use Opportunity	NA
South Coast Greenway Corridor	OGT Multi-Use Opportunity & SUN Trail	NA
Venetian Waterway Park Trail	OGT Multi-Use Opportunity	NA
Willow-Ellenton Trail Corridor	OGT Multi-Use Opportunity & Hiking Priority & SUN Trail	NA
Willow-Ellenton Trail Phase I	OGT Multi-Use Opportunity & Hiking Priority	NA

Source: Florida Geographic Data Library

Figure 3.12: Recreation Areas

3.3.3 Natural Resources

3.3.3.1 Wetlands and Other Surface Waters

Within 200 feet of the corridor, the National Wetlands Inventory (NWI) database reports a total of 389.43 acres [9.92%] of palustrine, estuarine, riverine, and lacustrine wetlands; palustrine wetlands compose the majority. The SWFWMD Wetlands 2011 database identifies a total of 301.08 acres [7.66%] of wetlands within the same designated area consisting of cypress, emergent aquatic vegetation, freshwater marshes, intermittent ponds, mangrove swamps, saltwater marshes, shorelines, stream and lake swamps (bottomlands), wet prairies, and wetland forested mixed. A desktop review of NWI and SWFWMD wetland databases and aerial imagery was performed to more accurately map wetlands in the project area as depicted in **Figure 3.13**. Since the project area is mostly urban in nature, many of the noted wetlands are predominantly associated with ponds, canals/creeks, golf courses, and preserved areas within subdivisions that line the corridor. Other areas of concentrated wetlands are associated with the Manatee River, Braden River, and Myakka River as well as natural creeks, state and local parks, and Florida Managed Areas.

The corridor is located within the Myakka River Drainage Basin, the South Coastal Drainage Basin (aka Sarasota/Lemon Bay Drainage), the Manatee River Drainage Basin, and the Tampa Bay and Coastal Areas Drainage Basin. Mitigation banks located within the basin where the impact is located may be used to offset wetland impacts. Impacts located within the Myakka River Basin are within the service area for the Myakka River Mitigation Bank (43003997.022). Impacts located within the Manatee River Basin are within the service areas for the Braden River Mitigation Bank (43024579.000), the Mangrove Point Mitigation Bank (43035355.002), the Manatee Mitigation Bank (43043384.000), and the Tampa Bay Mitigation Bank (43020546.042). Impacts located within the Tampa Bay Drainage Basin are within the service areas for the Nature Coast Mitigation Bank (43042778.000), the Mangrove Point Mitigation Bank (43035355.002), and the Tampa Bay Mitigation Bank (43020546.042). Impacts located in the South Coastal Drainage Basin are in the service area for the Fox Creek Regional Offsite Mitigation area (Sarasota County only) (43027077.00). At the time of this report neither the Mangrove Point Mitigation bank nor the Manatee Mitigation Bank have available credits as they are not yet operational. Wetland mitigation should be offset within the watershed basin where the wetland impact is located unless a cumulative impact analysis is accepted by the SWFWMD.

FDEP, U.S. Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS), SWFWMD, U.S. Army Corps of Engineers (USACE), and USEPA commented on wetlands and other surface waters during the Programming Screen. FDEP and USFWS made general comments noting the presence and importance of wetlands. NMFS comments are discussed in the Essential Fish Habitat section of this report.

SWFWMD reported the presence of several larger wetlands within the median of I-75 south of Clark Road which were part of a historic wetland impacted by the construction of I-75. SWFWMD stated that a delineation of wetland and surface water features must be completed and recommended that a Formal Wetland Determination Petition be submitted prior to the ERP application submittal. SWFWMD identified several existing mitigation banks from which credits could be used to offset impacts from the project. SWFWMD further emphasized the importance of maintaining a 25-foot wetland buffer to reduce secondary impacts to the wetlands located within the project area. They also noted that surface water impacts may have a de minimis impact on fish and wildlife habitat; therefore, wetland mitigation may not be required to offset these impacts. SWFWMD additionally identified existing ERPs within the

project vicinity; these ERPs will need to be considered and may be used for the proposed roadway improvements.

USACE cited wetlands associated with the Manatee River and Myakka River Basins, Braden River, and other assorted canals and natural creeks. USACE recommended that wetland avoidance and minimization opportunities be considered throughout the planning process, a wetland survey be conducted, and on-site and/or off-site mitigation options be identified for unavoidable impacts. USACE stated that a Standard Individual Permit review is likely due to the presence of tidal waters and Outstanding Florida Waters (OFWs). USACE added that a Nationwide 3 (Maintenance) permit and/or a Nationwide 15 (U.S. Coast Guard Approved Bridges) permit could be used as projects advance.

USEPA indicated that wetlands and other surface waters have experienced a decline in water quality due to an increase in pollution from a surge in growth, development, and other sources. USEPA noted that the project area is expected to experience an increase in stormwater runoff and an increase in pollutants with the expansion of impervious surface area as a result of widening I-75. USEPA stated that placement of fill into jurisdictional waters of the United States should be avoided and minimized to the greatest extent practicable.

Figure 3.13: Wetlands and Other Surface Waters

3.3.3.2 Water Resources

The corridor is located within the Myakka River Drainage Basin, the South Coastal Drainage Basin (aka Sarasota/Lemon Bay Drainage), the Manatee River Drainage Basin, and the Tampa Bay and Coastal Areas Drainage Basin. Within the project corridor, stormwater runoff from I-75 is currently being collected and treated via vegetated swales located on both sides of the roadway before offsite conveyance to adjacent waterbodies, include existing stormwater ponds. There are 29 basins within 200 feet of the corridor. Based on the Programming Screen, all 29 waterbodies within 200 feet of the project corridor have verified nutrient or dissolved oxygen impairment or adopted/planned Total Maximum Daily Loads. There is a Basin Management Action Plan for the Tampa Bay Tributaries. Also within 200 feet are two principal aquifers of the State of Florida [Surficial Aquifer System and Other Rocks] and the Myakka River which is an OFW and a Wild and Scenic River (Segment 5-14-86). Further, the corridor crosses and/or abuts several rivers, canals, and creeks. Bridges over water are discussed in the Structures section of this report.

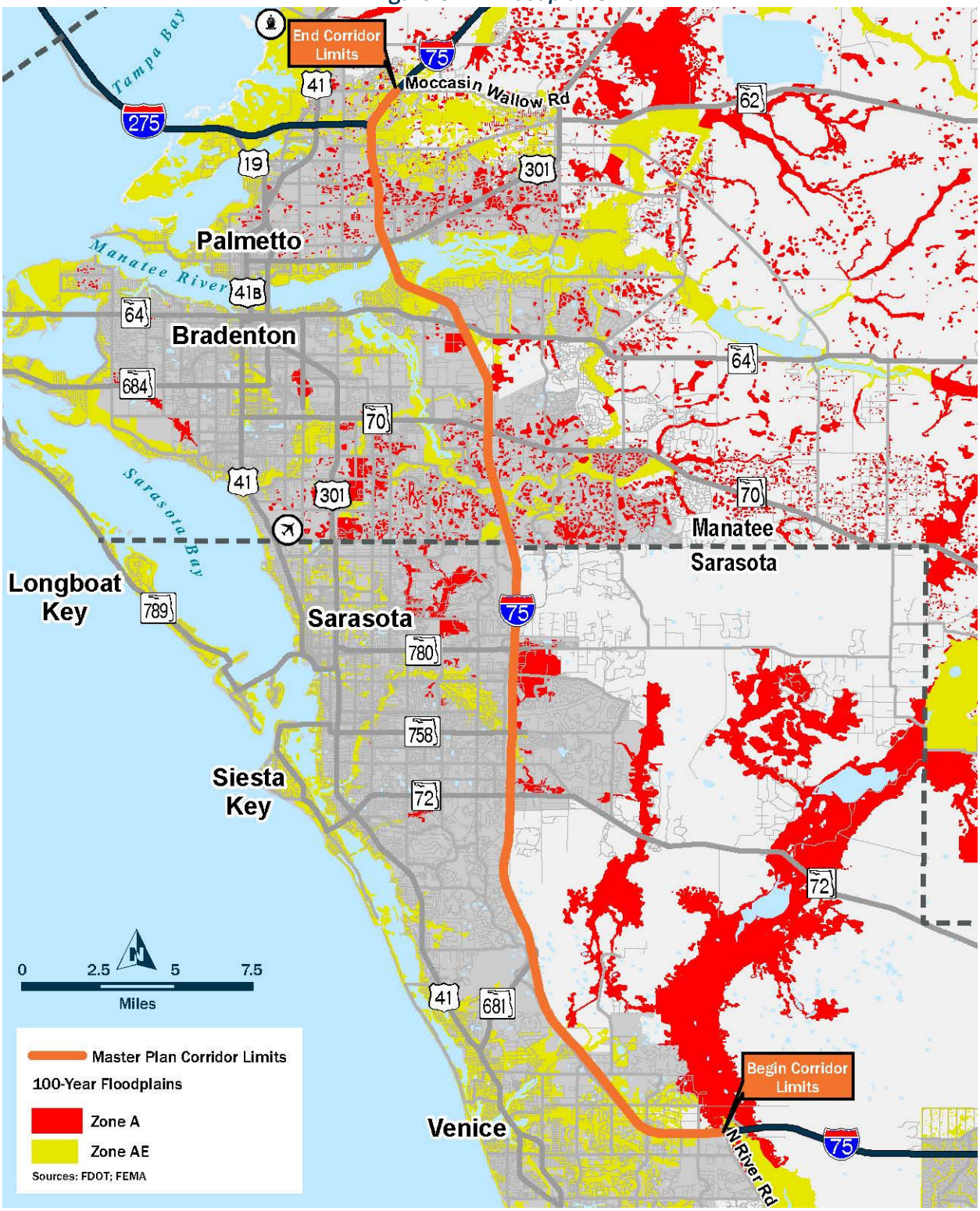
FDEP, SWFWMD, and USEPA commented on Water Resources during the Programming Screen. FDEP stated that every effort should be made to maximize the treatment of stormwater runoff, and stormwater treatment should be designed to maintain the natural predevelopment hydroperiod and water quality, as well as to protect the natural functions of adjacent wetlands. SWFWMD recommended that FDOT participate as a stakeholder in future Total Maximum Daily Loads and Basin Management Action Plan activities by the FDEP. SWFWMD also reiterated their regulatory requirements for stormwater management systems.

3.3.3.3 Floodplains

The 100-year floodplain is located throughout the project corridor with more heavily concentrated areas where the project crosses the Manatee River and the Myakka River. According to the Digital Flood Insurance Rate Map, 511.18 acres (13.02%) of the 200-foot project buffer occur within the 100-year floodplain in Flood Zones AE and A (**Figure 3.14**).

During the Programming Screen, SWFWMD stated that compensation will be required for fill impacts to the 100-year floodplain and recommended during the that FDOT coordinate with the SWFWMD Engineering and Watershed Management Section in Brooksville to utilize data from the flood studies composing the project area.

Figure 3.14: Floodplains



3.3.3.4 Protected Species and Habitat

The corridor occurs within the Greater Charlotte Harbor, Greater Tampa Bay, and Sarasota Bay Ecosystem Management Areas; FWS Consultation Area and Service Area for the Florida scrub jay; Occasional Range for the Florida black bear; critical habitat for the West Indian manatee; Rare and Imperiled Fish Habitat for the mangrove rivulus; and Core Foraging Area for the wood stork. The corridor also crosses and/or abuts multiple conservation lands (discussed in the Recreation section). **Figure 3.15** displays known wildlife habitat and managed aeras.

According to the USFWS Information for Planning and Consultation species lists, federally listed species potentially occurring in the two-county area include: one fish, three plants, one lichen, two mammals, eight birds, and four reptiles. Per the Florida Natural Areas Inventory database, five endangered or rare plant and animal species have the potential to occur within 200 feet of the corridor [American alligator, elongate june beetle, Florida long-tailed weasel, golden leather fern, and gopher tortoise]. The Florida Fish and Wildlife Conservation Commission (FWC) further identified several federal and state listed species which have been documented in the area. From the Programming Screen, other wildlife and habitat related resources located within the 200 feet of the corridor include: three bald eagle nesting territories, two FWC Manatee Protection Zones, and two Florida black bear nuisance reports. **Table 3.25** shows species listed as Federally Endangered (FE), Federally Threatened (FT), Federal Candidate (FC), State-Endangered (SE), and State-Threatened (ST) with potential to occur near the corridor.

Table 3.25: Federal and State Listed Species

Common Name	Scientific Name	Listing Status
Birds		
American Oystercatcher	*Haematopus palliates*	ST
Audubon's Crested Caracara	*Caracara cheriway*	FT
Black Skimmer	*Rynchops niger*	ST
Everglade Snail Kite	*Rostrhamus sociabilis plumbeus*	FE
Florida Burrowing Owl	*Athene cunicularia*	ST
Florida Sandhill Crane	*Grus canadensis*	ST
Florida Scrub-Jay	*Aphelocoma coerulescens*	FT
Ivory-Billed Woodpecker	*Campephilus principalis*	FE
Least Tern	*Sternula antillarum*	ST
Little Blue Heron	*Egretta caerulea*	ST
Piping Plover	*Charadrius melodus*	FT
Red Knot	*Calidris canutus rufa*	FT

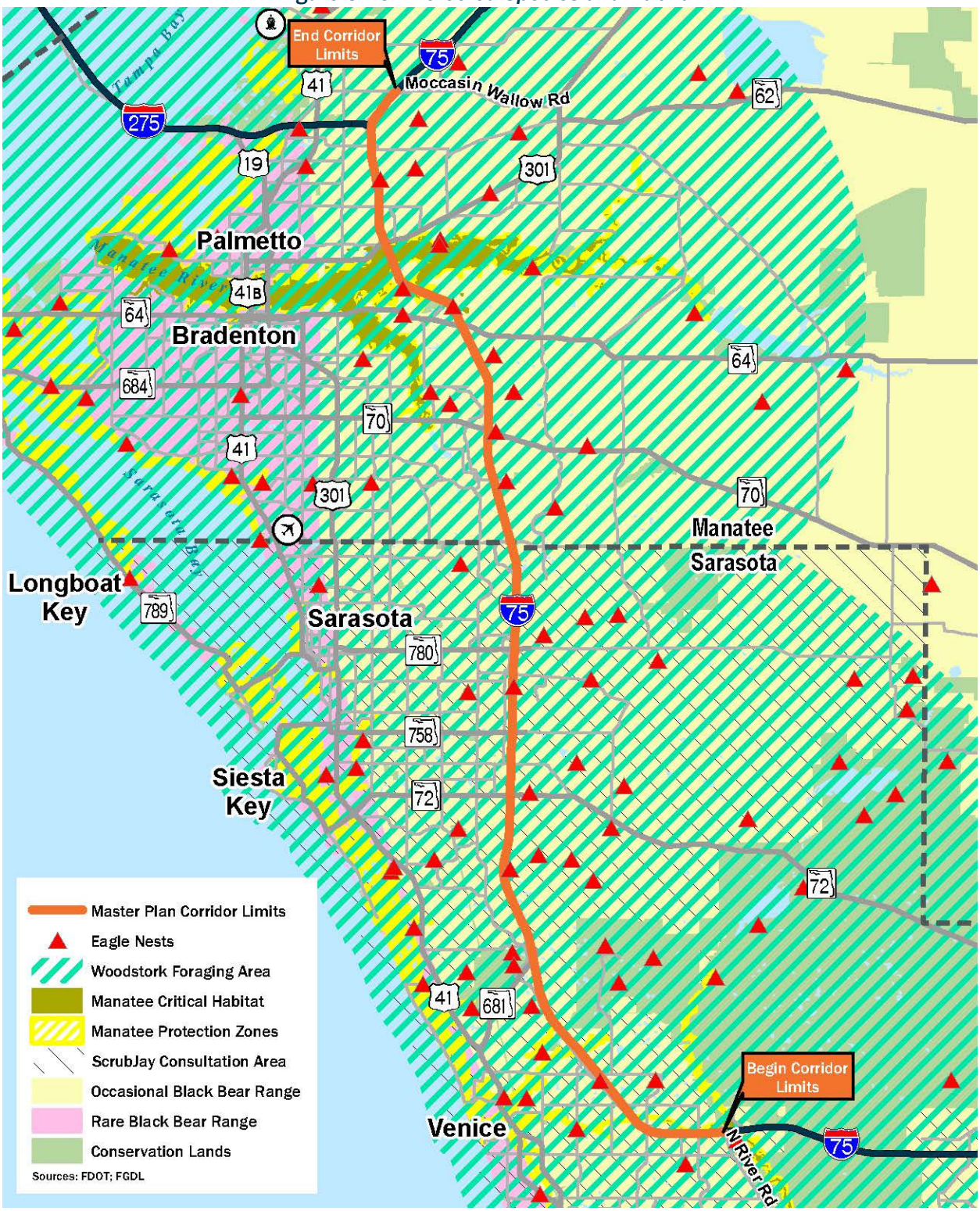
Common Name	Scientific Name	Listing Status
Red-Cockaded Woodpecker	*Picoides borealis*	FE
Reddish Egret	*Egretta rufescens*	ST
Roseate Spoonbill	*Platalea ajaja*	ST
Southeastern American Kestrel	*Falco sparverius paulus*	ST
Tricolored Heron	*Egretta tricolor*	ST
Wood Stork	*Mycteria americana*	FT
Fishes		
Atlantic Sturgeon	*Acipenser oxyrinchus oxyrinchus*	FE
Smalltooth Sawfish	*Pristis pectinata*	FE
Lichens		
Florida Perforate Cladonia	*Cladonia perforata*	FE
Mammals		
Florida Panther	*Puma concolor coryi*	FE
West Indian Manatee	*Trichechus manatus*	FT
Florida Bonneted Bat	*Eumops floirdanus*	FE
Plants		
Aboriginal Prickly-Apple	*Harrisia aboriginum*	FE
Florida Bonamia	*Bonamia grandiflora*	FT
Golden Leather Fern	*Acrostichum aureum*	ST
Pygmy Fringe-Tree	*Chionanthus pygmaeus*	FE
Reptiles		
American Alligator	*Alligator mississippiensis*	Similarity of Appearance (FT)
American Crocodile	*Crocodylus acutus*	FT
Eastern Indigo Snake	*Drymarchon couperi*	FT
Gopher Tortoise	*Gopherus polyphemus*	FC, ST

Common Name	Scientific Name	Listing Status
Green Sea Turtle	*Chelonia mydas*	FT
Florida Pine Snake	*Pituophis melanoleucus mugitus*	ST
Loggerhead Sea Turtle	*Caretta caretta*	FT

During the Programming Screen, FWC, USFWS, and SWFWMD commented on the presence of protected species and habitat. FWC identified the forested wetlands along the Myakka River, Salt Creek, and Braden River as well as the mosaic of fresh and saline wetlands within the Manatee River floodplain as the most valuable wildlife habitats within the project area. FWC commented that primary wildlife issues associated with widening I-75 include: potential loss of wetland and upland wildlife habitat; potential increase in wildlife roadkill; potential injury to manatees and other aquatic life during in-water construction; potential adverse effects to a significant number of listed species; and potential water quality impacts during construction. FWC added that widening I-75 would intensify the habitat fragmentation effect of I-75, creating a substantial barrier to wildlife movement. FWC requested that FDOT explore the possibility of including large mammal wildlife crossings in the project design and recommended places for the crossings. FWC listed several measures for conserving fish and wildlife and habitat resources that may occur within and adjacent to the project area, such as following Standard Manatee Conditions for In-Water Work and FWC's gopher tortoise survey methodology and permitting guidance.

USFWS reported that the Master Plan limits occur within the Core Foraging Area of several active nesting wood stork colonies; any lost foraging habitat resulting from the project must be mitigated within the same Core Foraging Area as the affected nesting colony. USFWS recommended that FDOT prepare a Biological Assessment during the PD&E phase. USFWS further recommended using native plants, trees, shrubs, and wildflowers in the landscaping of the corridor to benefit fish, wildlife, and insect pollinators.

Figure 3.15: Protected Species and Habitat



3.3.3.5 Essential Fish Habitat

As part of the Programming Screen, NMFS staff conducted a site inspection of the Master Plan area on July 11, 2019, and July 16, 2019, to assess potential concerns related to living marine resources within the Manatee River and Tampa Bay. Certain estuarine habitats within the project area are designated as Essential Fish Habitat (EFH) for juvenile and adult red drum, juvenile goliath grouper, and juvenile and adult gray snapper by the Gulf of Mexico Fishery Management Council under provisions of the Magnuson-Stevens Act. Also, a number of other species using these habitats are prey species for federally managed species. Mangroves occur beneath and adjacent to the I-75 Manatee River Bridge on either shoreline. Mangroves, estuarine water column, and mud, sand, shell, and rock substrates are specific categories of EFH that may be directly impacted by improvements to I-75 in the Master Plan limits.

Also, there are mangroves, seagrasses, and salt marshes downstream of the I-75 corridor at the mouth of the Caloosahatchee River and in Tampa Bay. The road also crosses several other waterways (e.g., the Braden River, the Myakka River, Salt Creek, Deer Prairie Creek) that drain to downstream estuarine habitats.

During the Programming Screen, NMFS recommended that any widening of the I-75 bridge over Manatee River be designed to direct stormwater off the bridge for treatment before it is discharged into the Manatee River. NMFS recommended that stormwater treatment systems associated with the other waterway crossings be upgraded to prevent degraded water from reaching downstream estuarine habitats. NMFS also stated that an EFH habitat assessment and a biological opinion for the smalltooth sawfish should be prepared.

3.3.4 Physical Resources

3.3.4.1 Air Quality

The project is located in Manatee County and Sarasota County, Florida, an area currently designated by the U.S. Environmental Protection Agency (EPA) as being in attainment area for all of the pollutants for which there are National Ambient Air Quality Standards (NAAQS)—carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO2), ozone (O3), particulate matter, and sulfur dioxide (SO2).

This project is not expected to create adverse impacts on air quality because the project area is in attainment for all NAAQS and because the project is expected to improve the Level of Service (LOS) and reduce delay and congestion on the I-75 corridor.

3.3.4.2 Contamination

The following potential sources of sub-surface contamination are reported within the 500-foot buffer from the Programming Screen: 65 storage tank contamination monitoring sites (STCM). Petroleum contamination monitoring sites (PCMS), Super Act risk sources, USEPA Resource Conservation and Recovery Act (RCRA) regulated facilities, and a hazardous waste facility]; three additional Super Act risk sources; 29 additional USEPA RCRA regulated facilities [two are also hazardous waste facilities and one is a Superfund hazardous waste site]; an additional hazardous waste facility (HazW); and a closed waste cleanup responsible party site. Potentially contaminated sites within the 500-ft buffer are listed in **Table 3.26** and shown in **Figure 3.16**. Additionally, there are two brownfields within 500 feet: Former Workman Electronics Area and Fruitville Brownfield Area.

FDEP, SWFWMD, and USEPA commented during the Programming Screen. FDEP indicated that any land clearing or construction debris must be characterized for proper disposal and provided references for the proper handling/management/cleanup of potentially hazardous materials, solid waste or other non-hazardous materials, and petroleum sources. FDEP recommended early planning to accurately identify and characterize cleanup sites in order to meet construction and cleanup timeframes. FDEP stated that there are "off-property" notification responsibilities potentially associated with projects along this corridor.

SWFWMD noted that while the pollution potential of the Surficial Aquifer is high, the project does not lie within a sensitive karst area nor are sinkholes present. SWFWMD recommended that FDOT conduct an Environmental Audit and prepare an appropriate Contamination Assessment Report to identify specific facilities of interest and to develop a plan for their proper removal or abandonment.

USEPA reported that soils, groundwater, and surface water have the potential to be negatively affected by sources of contamination; land use may also be degraded. USEPA stated that if any petroleum storage tanks are to be impacted or removed during construction, sampling and analysis of soils and groundwater should be conducted to determine if petroleum and hydrocarbon pollutants are present above regulatory levels. USEPA recommended that corrective action of contamination be completed before commencement of project activities.

Table 3.26: Potentially Contaminated Sites

Site ID (STCM or RCRA)	Site Name / Type	Site Address	Listing(s)
9201008	Circle K #2707570	5944 20th Court E	STCM, PCMS, RCRA
9200618	Retail Station	6285 US-301	STCM
9400699	Circle K #2707683	7205 55th Avenue E	STCM
8630041	Dash In Dash Out Food Mart - 64	575 66th Court E	STCM, PCMS
8624059	Bulk Chemical Storage	7610 US 41	STCM
8734038	Fuel User / Non-retail	67th Street Circle E	STCM
9102221	McKenzie Tanker Spill		STCM, PCMS, Super Act
8732054	Circle K #1686	6410 FL-64	STCM, PCMS, Super Act
8838808	Agricultural	6285 US-301	STCM
8945418	Agricultural	7185 50th Avenue Circle E	STCM
8945410	Fletcher's Happy Dolphin Pub & Grill	6602 Drewrys Bluff	STCM, PCMS

Site ID (STCM or RCRA)	Site Name / Type	Site Address	Listing(s)
8510963	Fuel User / Non-retail	6410 FL-64	STCM
9047175	Station 116 Inc	6285 US-301	STCM, PCMS
9045934	7-Eleven #38144	6402 US-301	STCM, PCMS, Super Act, RCRA
9300531	Danmark Oil Spill		STCM, PCMS, Super Act
9100142	Sarasota County - Transportation	6150 Palmer Boulevard	STCM, PCMS, Super Act
9300592	Other		STCM
8631210	Fuel User / Non-retail	6100 Porter Road	STCM
9400342	US Xpress Truck Fuel Spill		STCM, PCMS, Super Act
8628325	Fuel User / Non-retail	2295 Lakewood Ranch Boulevard	STCM
8628317	Burnup & Sims Comtec, Inc.	910-900 Paschal Place	STCM, PCMS, Super Act
8520869	Peterson Manufacturing Co.	155 Cattlemen Road	STCM, PCMS, Super Act
8520724	7-Eleven #21045	5745 Clark Road	STCM, PCMS, Super Act
8631134	KMART #7578	3953 Cattleman Road	STCM, PCMS
8520902	Roberts Lumber	719 Cattleman Road	STCM, PCMS, Super Act
8521179	Bay Marine	800 Bell Road	STCM, PCMS
8521175	Shell	6001 Palmer Boulevard	STCM, PCMS, Super Act,
8734903	Federal Express	375 Commercial Court	STCM
8732449	Federal Express	2033 Cantu Court	STCM, PCMS, Super Act, RCRA
8842184	7-Eleven #34840	5754 Clark Road	STCM, PCMS
9401985	Agricultural	6150 Palmer Boulevard	STCM
9600765	Contamination Site		STCM

Site ID (STCM or RCRA)	Site Name / Type	Site Address	Listing(s)
9600749	Pepsi Cola Truck Spill		STCM, PCMS, Super Act
9602000	Contamination Site		STCM
9800926	Fuel User / Non-retail	6288 Tower Lane	STCM
9700499	Retail Station	350 Commercial Court	STCM
9700995	FL Rock and Tank Lines Inc. Diesel Spill		STCM, PCMS, Super Act
9805049	Circle K #2707785	5651 Clark Road	STCM, PCMS, Super Act
9801196	Speedway #6406	8604 E State Road 70	STCM, PCMS, Super Act
9805502	Back Hoe Rental Property	5707 19th Street E	STCM, PCMS, Super Act
9801299	Retail Station	360 Commercial Court	STCM
9803029	Retail Station	2995 Executive Drive	STCM
9800189	Florida Rock and Tank Lines, Inc.	1996 Honore Avenue	STCM, PCMS, Super Act
9805551	E & L Trucking		STCM, PCMS, Super Act
9701234	Retail Station	5891 Fruitville Road	STCM
8624312	Pilot Travel Center #089	1526 51st Avenue E	STCM, PCMS, Super Act
8510877	Circle K #2709763	575 66th Street Court E	STCM, PCMS, Super Act
9803273	7-Eleven #38483	7305 53rd Avenue E	STCM, PCMS
9804309	Retail Station	1000 Knights Trail Rd	STCM
9801838	Mobil-Lakewood Ranch	6290 Lake Osprey Drive	STCM, PCMS, Super Act, RCRA
9808873	Fuel User / Non-retail	7288 55th Avenue E	STCM
9807104	Fuel User / Non-retail	6150 Edgelake Drive	STCM
9807899	Fuel User / Non-retail	1616 Lakewood Ranch Boulevard	STCM
9811299	Fuel User / Non-retail	6750 Fruitville Road	STCM

Site ID (STCM or RCRA)	Site Name / Type	Site Address	Listing(s)
9809885	Golf Coast Landscaping		STCM, PCMS, Super Act
9810677	JS Weipz	40 US-301	STCM, PCMS, Super Act
9809731	County Government		STCM
9813522	Fuel User / Non-retail	4111 Cattleman Road	STCM
9811352	Timm Roberts	820 Bell Road	STCM, Super Act
9814330	Retail Station	6601 Bee Ridge Road	STCM
9815963	Fuel User / Non-retail	8704 E State Road 70	STCM
9815201	Retail Station	19355 Times Circle	STCM
9815784	Emergency Response Spill Site		STCM
9816500	Retail Station	4920 Moccasin Wallow Road	STCM
9815902	Retail Station	5760 Ranch Lake Boulevard	STCM
	Lowes – Former Crofut Property	5750 Fruitville Road	Super Act, FDEP Institutional Controls
	Circle K#2211024	5944 20th Ct E	Super Act
	Bob and Marys	5717 18th Street E	Super Act
110017384052	Cattlemen Road Partners LLC		RCRA, Superfund
110032959494	BJs Wholesale Club #0128		RCRA
110046232475	CVS Pharmacy #4614	7195 E SR 70	RCRA, HazW
110017622394	Tire Kingdom LLC #264	7390 52nd Place E	RCRA, HazW
110035519711	Pacific Tomato Growers		RCRA
110035529791	Triest Ag Group, Inc.	7610 US 41	RCRA, HazW
110070119708	Bodywork by Craig, Inc.	1265 Porter Road	RCRA, HazW
110002548404	British Auto Repair Factory	6120 Porter Road	RCRA, HazW
110017384052	Cattleman Road Partners LLC		RCRA

Site ID (STCM or RCRA)	Site Name / Type	Site Address	Listing(s)
110022310024	FPL Co Howard Substation		RCRA
110012541838	Albrecht Cabinets, Inc.	325 Cattleman Road	RCRA, HazW
110005618518	American Office Equip MW Florida	1289 Porter Road	RCRA, HazW
110005639540	American Refrigerants Inc.	2269 Porter Lake Drive	RCRA, HazW
110044929352	Paul's Auto Body and Collision	325 Cattleman Road	RCRA, HazW
110035608143	Peterson Manufacturing Co	155 Cattleman Road	RCRA, HazW
110008330010	Precision Fiberglass Inc.	1155 Porter Road	RCRA, HazW
110011366002	Precision Signs	2427 Porter Lake Drive	RCRA, HazW
110037318355	Rose's Cleaner	4005 Cattleman Road	RCRA, HazW
110005277547	Rose's Cleaner Inc.	820 Bell Road	
110002104696	S Decrance Inc Marble Specialists DBA	950 Bell Road	RCRA, HazW
110007472966	Sears #8375	2101 Cantu Court	RCRA, HazW
110031389030	Shutter Elegance	800 Bell Road	RCRA, HazW
110002560906	Skyco Equipment Inc.	6150 Porter Road	RCRA, HazW
110007481359	Sure Fine Finish	325 Cattleman Road	RCRA, HazW
110007472010	Home Depot #0255		RCRA
110059665526	Monster Equipment Inc.	6120 Porter Road	RCRA, HazW
10055443328	Motorheads Precision Products	2073 Porter Lake Drive	RCRA, HazW
110043768107	TEC Metals Inc.	2147 Porter Lake Drive	RCRA, HazW
110041665980	Tire Kingdom LLC #55	5931 Brookhill Boulevard	RCRA, HazW
110008327550	Trail Mate Inc.	6000 Palmer Boulevard	RCRA, HazW
110005651231	Walgreens #5575	3945 Cattleman Road	RCRA, HazW

Site ID (STCM or RCRA)	Site Name / Type	Site Address	Listing(s)
FLR000184598 *	CVS Pharmacy #5805	3520 Laurel Road E	HazW
180240*	Kentucky Colonel Property	4512 77th Street E	Waste Cleanup Responsible Party Site - Closed

**Other FDEP/USEPA ID*

Figure 3.16: Potentially Contaminated Sites

4.0 References

BEBR. *Florida Population Studies, 2019*. Projections of Florida Population by County, 2020-2045, with Estimates for 2018. Volume 52, Bulletin 183.

FDOT, Project #14399 I-75 North Preliminary Programming Screen Report. October 11, 2019.

FDOT, Interstate 75 from North of River Road to SR 681 PD&E Study (FPID 406314-1-22-01), *Preliminary Engineering Report*. 2003.

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Manatee County. *Manatee County Compressive Plan*. Adopted December 10, 2020.

Sarasota County. *Sarasota County Comprehensive Plan 2040*. Updated 2016.

Sarasota/Manatee MPO. *Transform 2045 Long Range Transportation Plan*. Adopted October 26, 2020.

5.0 Appendices

Appendix A - Straight Line Diagrams

Appendix B – Existing Drainage Maps

Appendix C – Flood Insurance Rate Maps (FIRM)

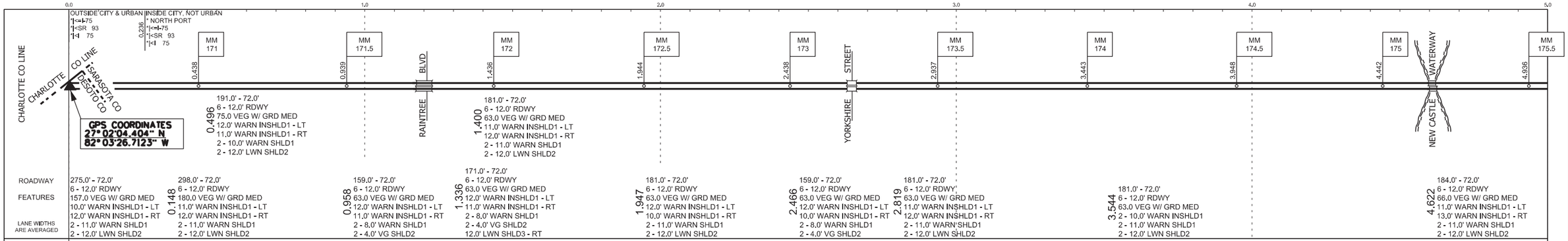
Appendix A
Straight Line Diagrams

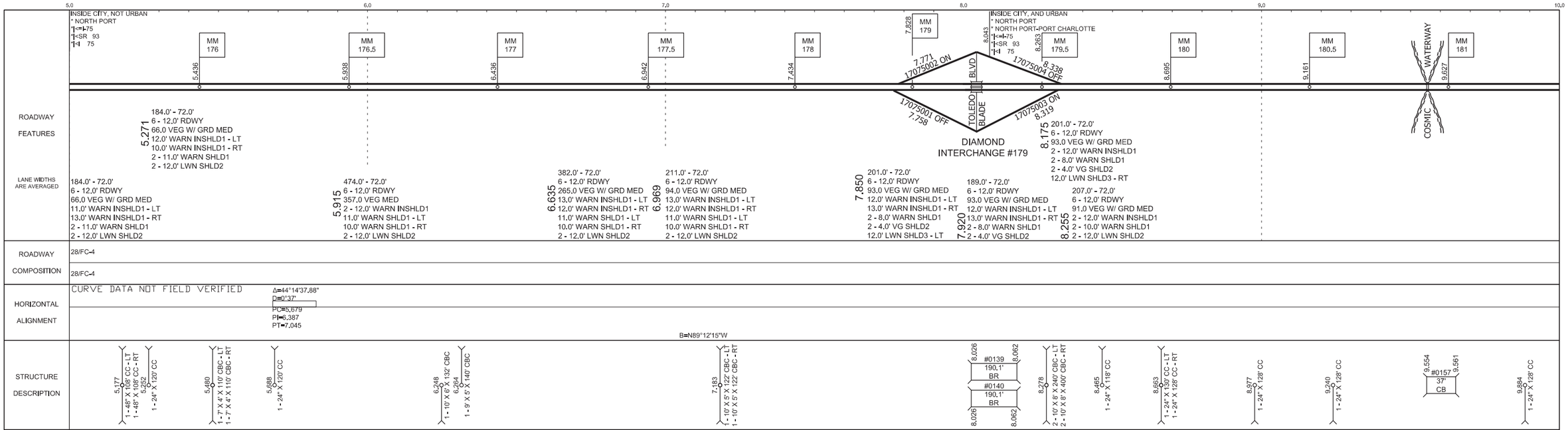
	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	07/27/2018	08/09/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 75	SR 93	SARASOTA	01	17075000	1 OF 6





Version: 1.4.2.27 08/09/2018

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DATE	07/27/2018	08/09/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
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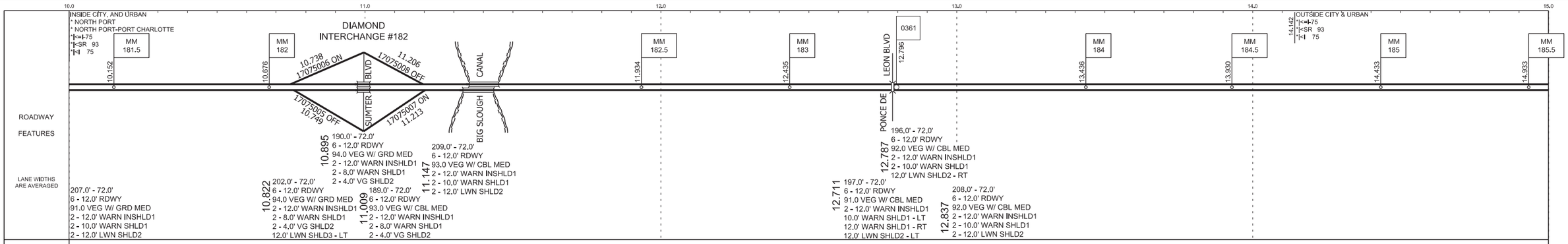

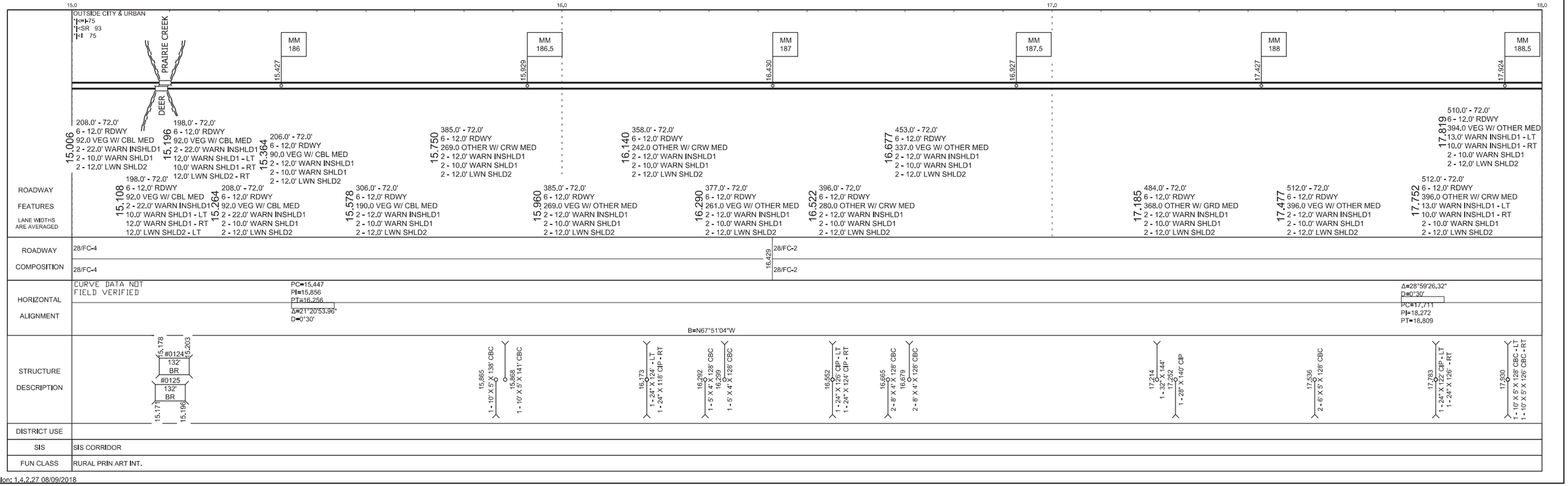

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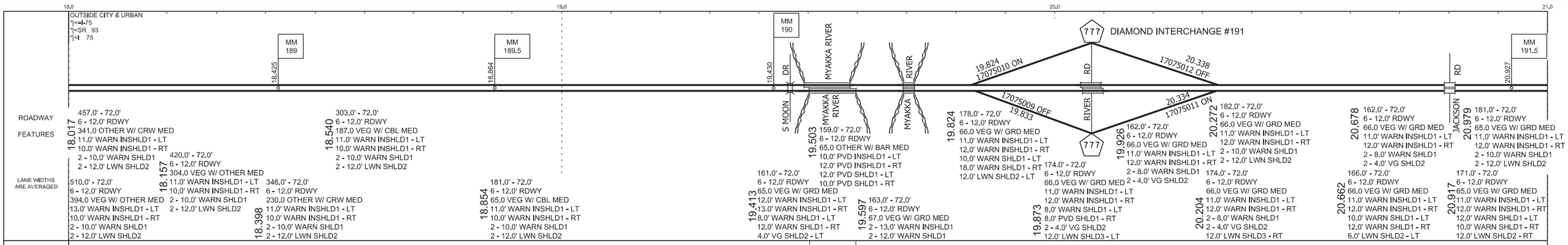
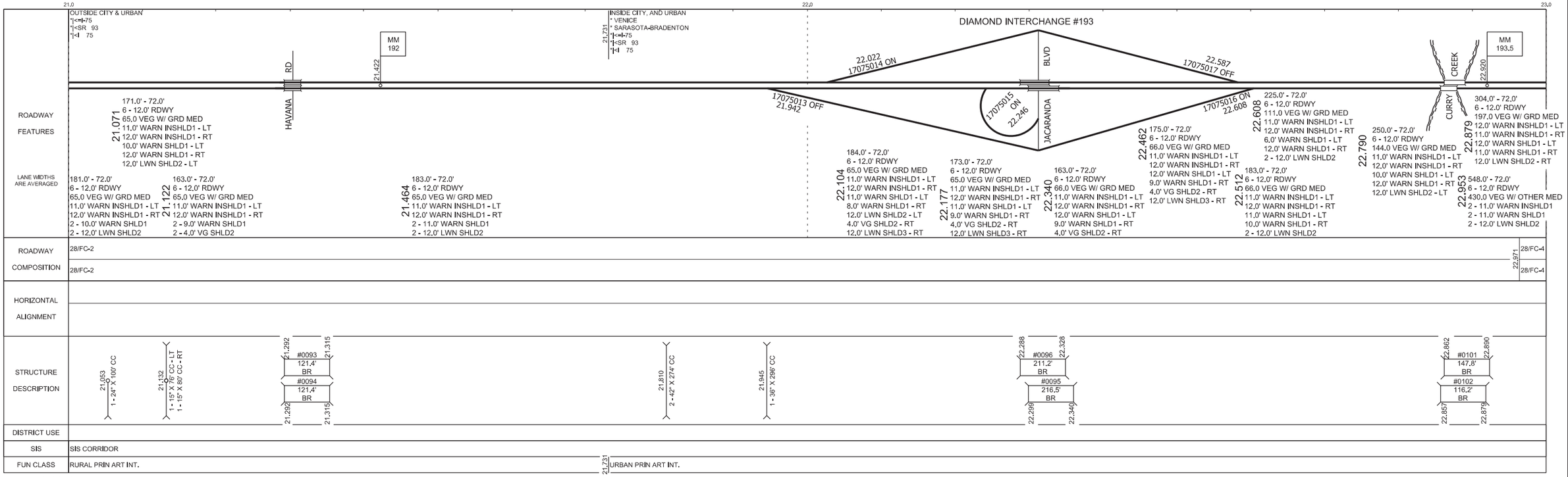
DATE	07/27/2018	08/09/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 75	SR 93	SARASOTA	01	17075000	3 OF 6



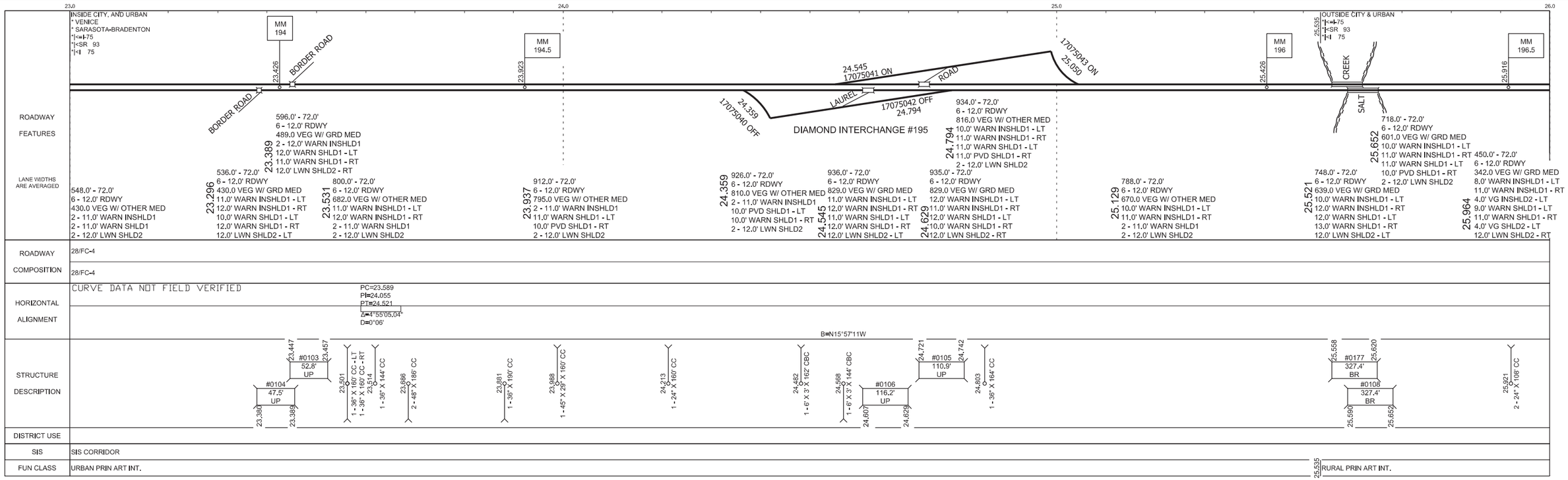


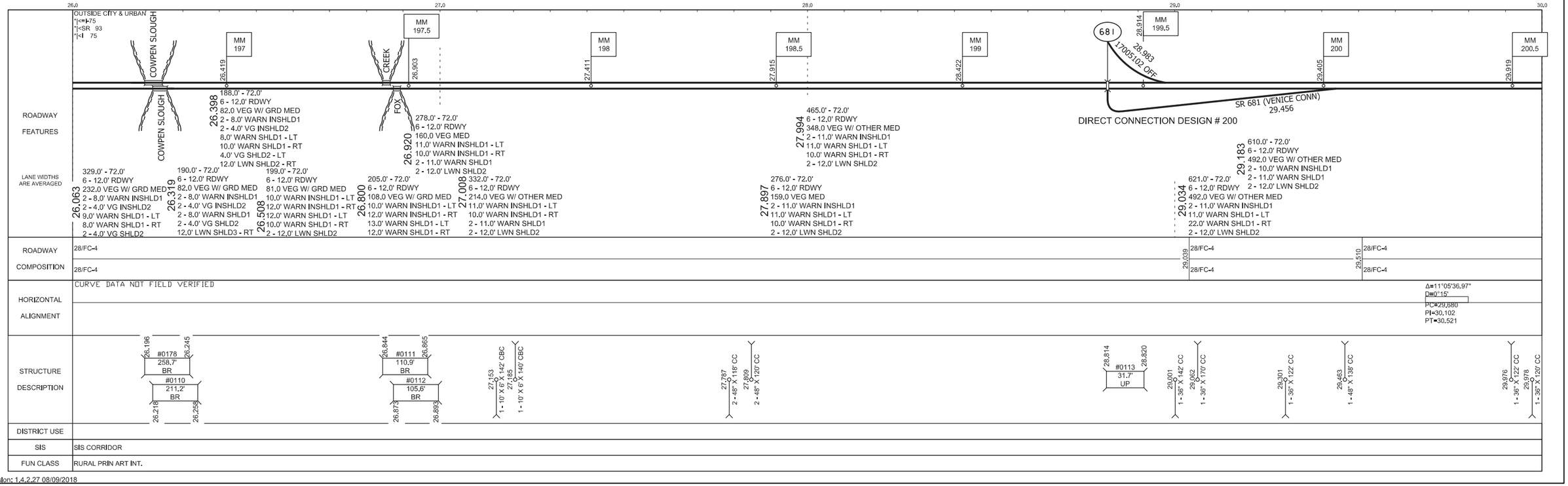
	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	07/27/2018	08/09/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 75	SR 93	SARASOTA	01	17075000	4 OF 6





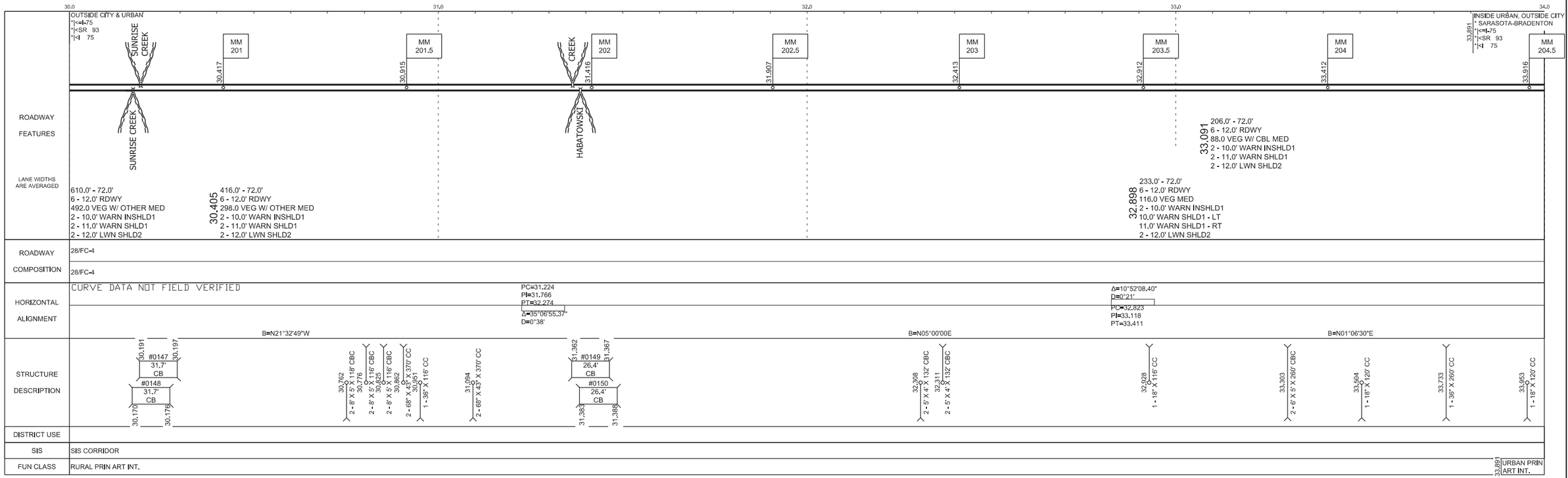
Version: 1.4.2.27 08/09/2018

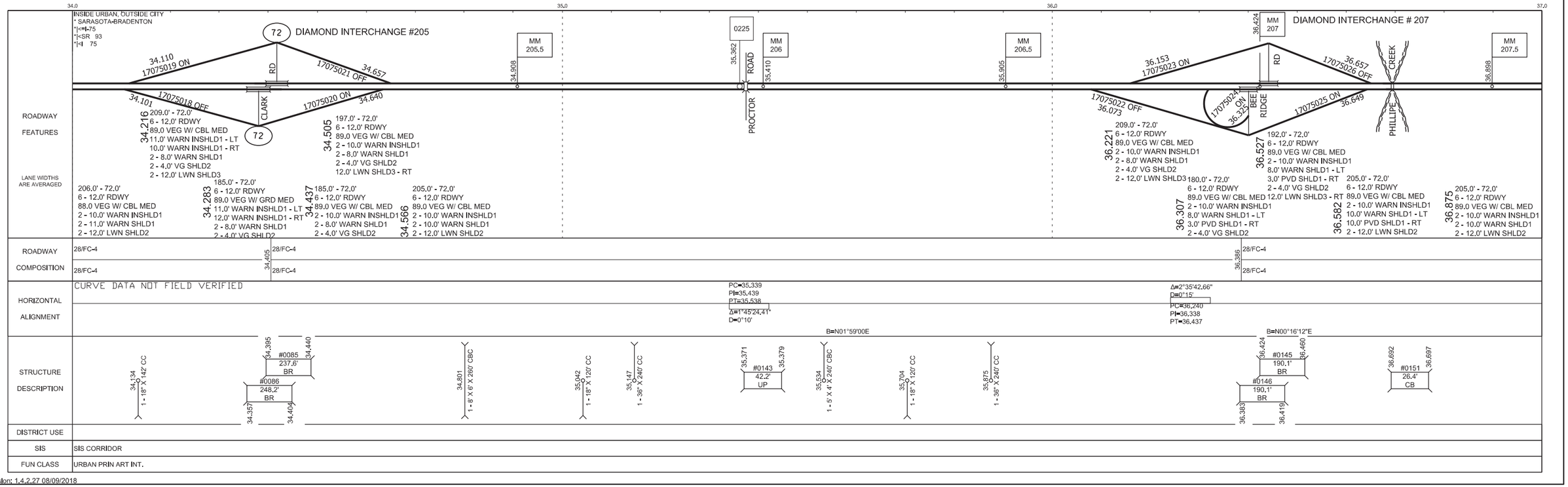
	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	07/27/2018	08/09/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 75	SR 93	SARASOTA	01	17075000	5 OF 6





Version: 1.4.2.27 08/09/2018

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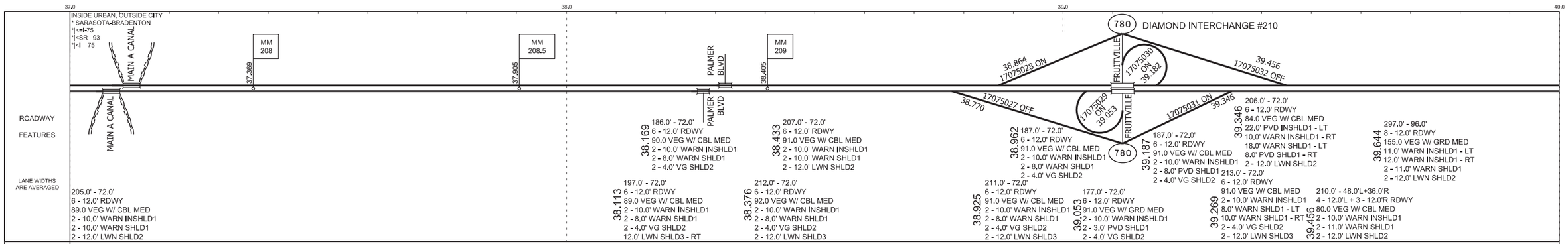
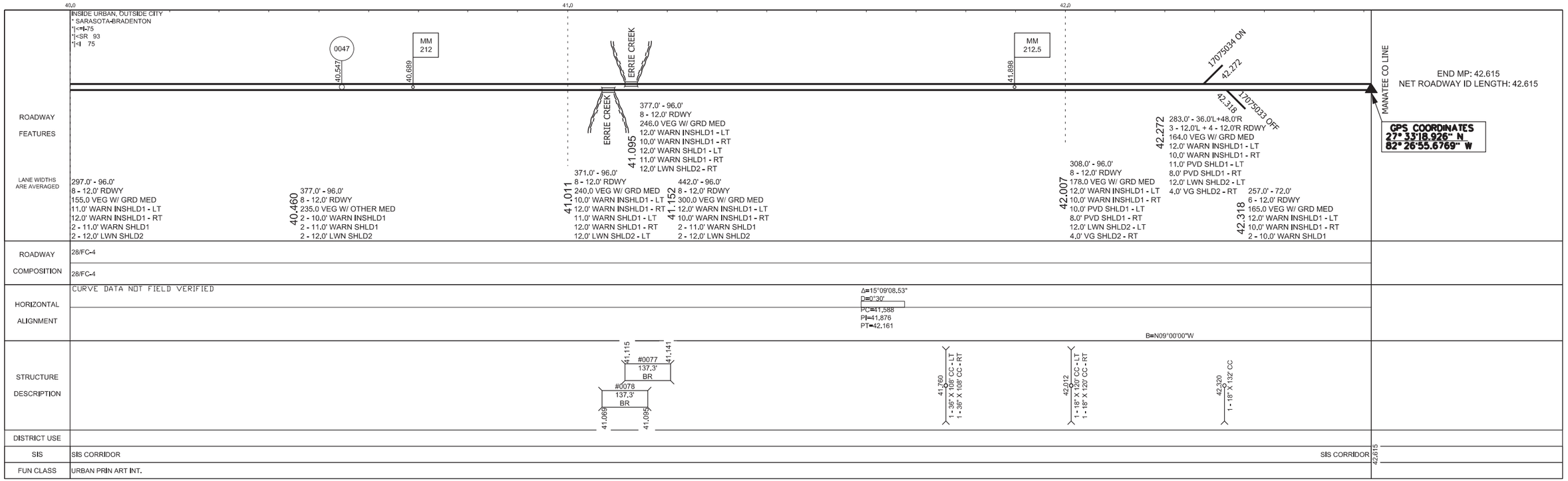
DATE	07/27/2018	08/09/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 75	SR 93	SARASOTA	01	17075000	6 OF 6





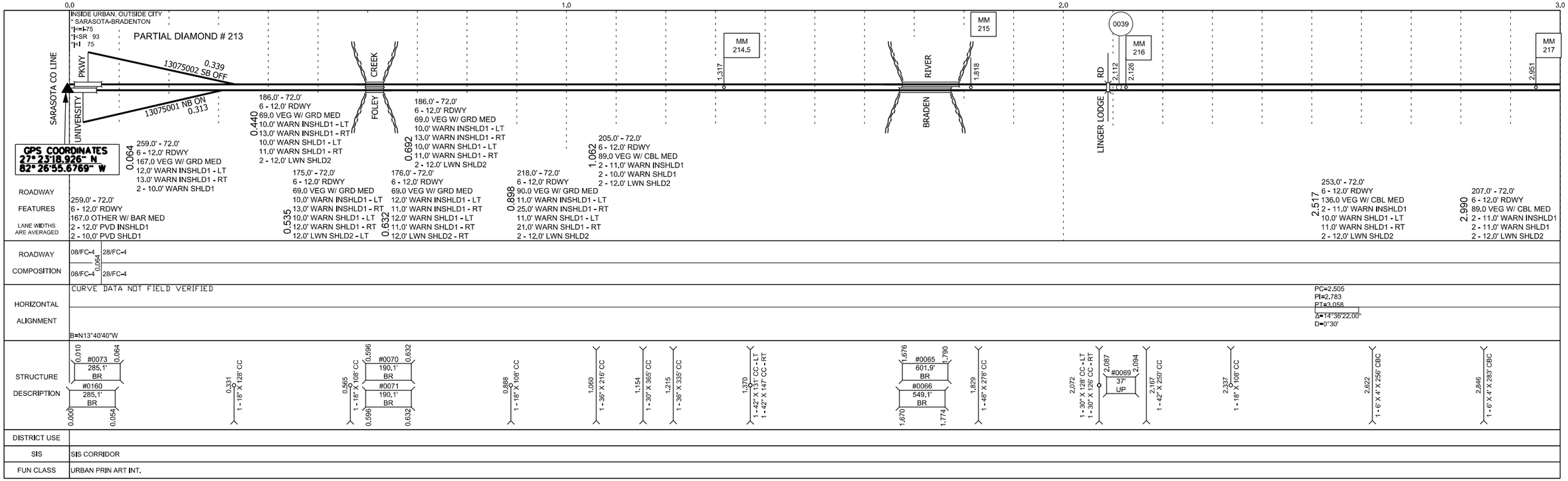
Version: 1.4.2.27 08/09/2018

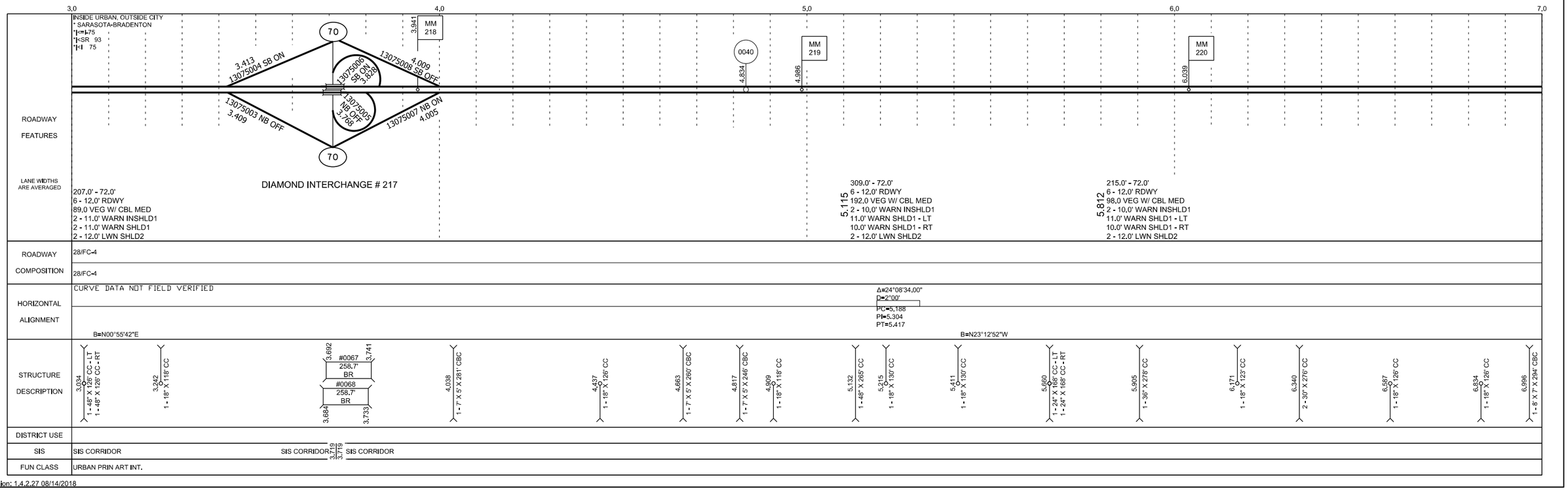
	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	03/03/2015	03/27/2015	0.000	1.062	08/03/2018	8/14/18(201032-4 /201277-2)
BY	FTE	FTE	0.000	20.571		8/14/18(C.DRAINS

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO.
02	I 75	SR 93/SR 93A	MANATEE	01	13075000	1 OF 3





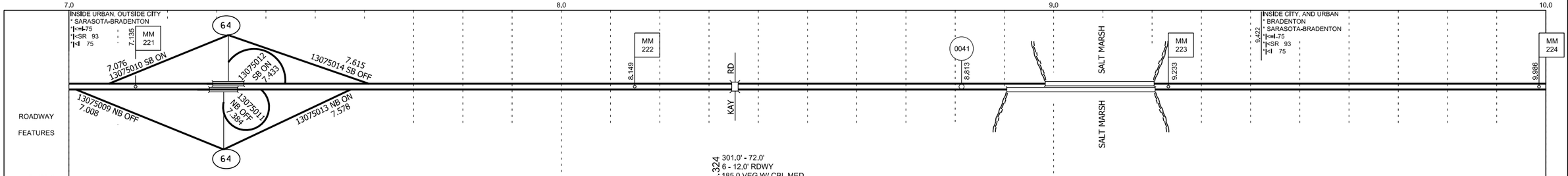
Version: 1.4.2.27 08/14/2018

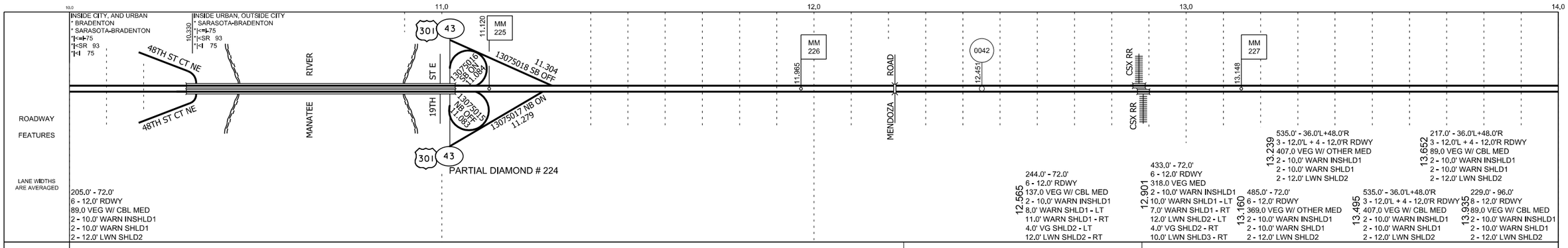
	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	03/03/2015	03/27/2015	0.000	20.571		8/14/18(C.DRAINS
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 75	SR 93/SR 93A	MANATEE	01	13075000	2 OF 3



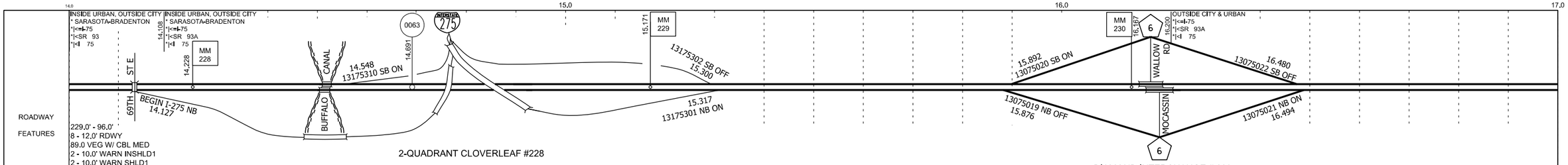


	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	03/03/2015	03/27/2015	0.000	20.571		8/14/18(C.DRAINS
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO.
02	I 75	SR 93/SR 93A	MANATEE	01	13075000	3 OF 3



ROADWAY FEATURES

229.0' - 96.0'
8 - 12.0' RDWY
89.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

LANE WIDTHS ARE AVERAGED

14.108 225.0' - 48.0'L+36.0'R
4 - 12.0'L + 3 - 12.0'R RDWY
89.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
10.0' WARN SHLD1 - LT
30.0' PVD SHLD1 - RT
12.0' LWN SHLD2 - LT

14.353 217.0' - 48.0'L+36.0'R
4 - 12.0'L + 3 - 12.0'R RDWY
89.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

14.548 205.0' - 72.0'
6 - 12.0' RDWY
89.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

15.322 217.0' - 36.0'L+48.0'R
3 - 12.0'L + 4 - 12.0'R RDWY
89.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

15.694 229.0' - 96.0'
8 - 12.0' RDWY
89.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

15.900 217.0' - 36.0'L+48.0'R
3 - 12.0'L + 4 - 12.0'R RDWY
89.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

16.225 295.0' - 36.0'L+48.0'R
3 - 12.0'L + 4 - 12.0'R RDWY
167.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

ROADWAY COMPOSITION

28/FC-4
28/FC-4
15.723
28/FC-4
28/FC-4

HORIZONTAL ALIGNMENT

CURVE DATA NOT FIELD VERIFIED

PC=14.722
PI=14.936
PT=15.138
Δ=32°56'22.00"
D=1°30'

PC=15.723
PI=15.843
PT=15.957
Δ=8°14'30.00"
D=0°40'

PC=16.945
PI=17.221
PT=17.498
Δ=14°30'38.00"
D=0°30'

B=N00°13'18"W
B=N32°43'04"E
B=N40°57'34"E

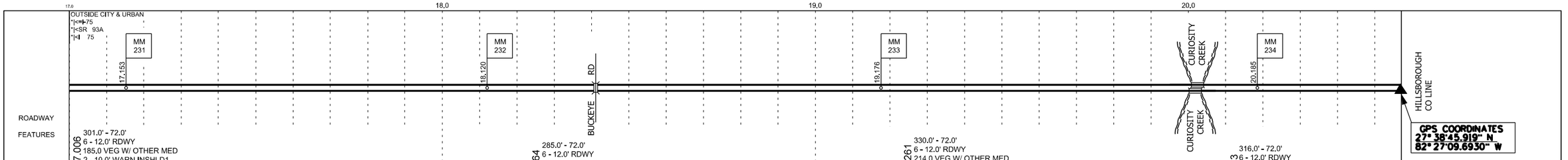
STRUCTURE DESCRIPTION

14.127 #0089 52.8' UP 14.137
14.309 1 - 18" X 130' CC
14.495 1 - 18" X 126' CC
14.504 14.510 #0108 95' BR 14.528
14.504 #0109 110.9' BR 14.525
14.576 1 - 18" X 132' CC
14.757 #0090 58.1' UP 14.768
14.933 #0112 68.6' UP 14.946
15.108 1 - 24" X 261' CC
15.320 1 - 18" X 165' CC
15.453 1 - 18" X 141' CC
15.622 1 - 18" X 120' CC
15.861 1 - 10" X 6" X 310' CBC
16.156 #0078 248.2' BR 16.203
16.170 #0079 290.4' BR 16.225
16.607 1 - 18" X 154' CC
16.855 1 - 24" X 156' CC

DISTRICT USE

SIS: SIS CORRIDOR — SIS CORRIDOR (15.100 – 15.300) — SIS CORRIDOR

FUN CLASS: URBAN PRIN ART INT. — RURAL PRIN ART INT. (16.200)



ROADWAY FEATURES

17.006 301.0' - 72.0'
6 - 12.0' RDWY
185.0 VEG W/ OTHER MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

17.255 295.0' - 36.0'L+48.0'R
3 - 12.0'L + 4 - 12.0'R RDWY
167.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

205.0' - 72.0'
6 - 12.0' RDWY
89.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

18.264 285.0' - 72.0'
6 - 12.0' RDWY
169.0 VEG W/ OTHER MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

18.132 247.0' - 72.0'
6 - 12.0' RDWY
131.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

19.261 330.0' - 72.0'
6 - 12.0' RDWY
214.0 VEG W/ OTHER MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

19.026 299.0' - 72.0'
6 - 12.0' RDWY
183.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

19.465 415.0' - 72.0'
6 - 12.0' RDWY
299.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

20.133 316.0' - 72.0'
6 - 12.0' RDWY
200.0 VEG W/ OTHER MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

19.912 415.0' - 72.0'
6 - 12.0' RDWY
299.0 VEG W/ OTHER MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

END MP: 20.571
NET ROADWAY ID LENGTH: 20.571

ROADWAY COMPOSITION

28/FC-4
28/FC-4

HORIZONTAL ALIGNMENT

CURVE DATA NOT FIELD VERIFIED

Δ=17°16'58.00"
D=0°45'
PC=17.873
PI=18.093
PT=18.309

PC=19.572
PI=19.989
PT=20.396
Δ=21°44'50.00"
D=0°30'

B=N55°28'12"E
B=N38°11'14"E
B=N59°56'04"E

STRUCTURE DESCRIPTION

17.269 2 - 36" X 210' CC
17.308 2 - 36" X 220' CC
17.436 1 - 24" X 113' CC - LT
1 - 24" X 113' CC - RT
17.644 1 - 24" X 120' CC - LT
1 - 24" X 120' CC - RT
18.005 1 - 18" X 112' CC
18.139 1 - 18" X 127' CC
18.270 1 - 24" X 145' CC - LT
1 - 24" X 130' CC - RT
18.406 #0077 52.8' UP 18.416
18.445 1 - 24" X 130' CC - LT
1 - 24" X 138' CC - RT
18.588 2 - 24" X 126' CC - LT
2 - 24" X 126' CC - RT
18.679 2 - 36" X 144' CC
18.765 2 - 36" X 144' CC - LT
1 - 24" X 120' CC - RT
19.473 1 - 53" X 34" X 120' CC
19.498 1 - 53" X 34" X 120' CC
19.880 1 - 24" X 170' CC - LT
1 - 24" X 200' CC - RT
20.045 1 - 24" X 120' CC
20.008 #0105 174.2' BR 20.041
20.002 #0106 174.2' BR 20.035
20.173 1 - 24" X 120' CC
20.517 1 - 5' X 5' X 120' CBC - LT
1 - 5' X 5' X 120' CBC - RT

DISTRICT USE

SIS: SIS CORRIDOR — SIS CORRIDOR (20.571)

FUN CLASS: RURAL PRIN ART INT.

Appendix B
Existing Drainage Maps

THIS CONTRACT PLAN SET INCLUDES

ROADWAY PLANS
STRUCTURE PLANS

A DETAIL INDEX APPEARS ON THE KEY SHEET FOR EACH GROUP OF PLANS.

INDEX OF ROADWAY PLANS

ATTENTION
REVISED SHEETS
IF ANY
DIRECTLY BEHIND
KEY SHEET

Index No. — Standard Drawings

BGR-01-1	Guardrail Construction (5 Sheets)
DMD-01-1	Miscellaneous Drainage Details (3 Sheets)
DDI-C	Ditch Bottom Inlet - Type A
DDI-02	Ditch Bottom Inlet - Type B
DGI-1	Gutter Inlet Type S
DCE-01	Concrete Endwalls
DCE-0[illegible]	U-Endwalls for Pipe Culverts (3 Sheets)
DCE-10	Endwall for Double 72" Concrete Pipe
FLD-01	Fence Location Details
FTA-01-2	Fence, Type A
GEC-01	Erosion Control Devices, Temporary Slope Drains
GEC-03	Erosion Control Devices, Sediment Check
GEC-05	Erosion Control Devices, Baled Hay or Straw
GEU-01	Embankment Utilization Details
GRC-01-1	Miscellaneous Roadway Construction Details (2 Sheets)
GRT-01	Standard Details for Ramp Terminals (4 Sheets)
GSA-01	Standard Abbreviations
GSE-01	Superelevation Details
GSS-01	Standard Symbols for Key Maps and Plan Sheets (3 Sheets)
GTO-01-1	Turnout Details
PCG-01	Curb, Curb & Gutter (2 Sheets)
PMS-01	Median Storage Lanes
11823	Concrete Approach Slabs (8 Sheets)
11824	Concrete Approach Slabs (4 Sheets)
11825	Concrete Approach Slabs (6 Sheets)
11826	Concrete Approach Slabs (4 Sheets)
11827	Concrete Approach Slabs (6 Sheets)
PTS-01	Traffic Separators
PME-01	Mitered End Section (2 Sheets)

REVISIONS
Sheets 189-190 9/12/77
Sheet 1 9/14/77
Sheets 11,12,14 & 20 9/21/77

BEST AVAILABLE COPY

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

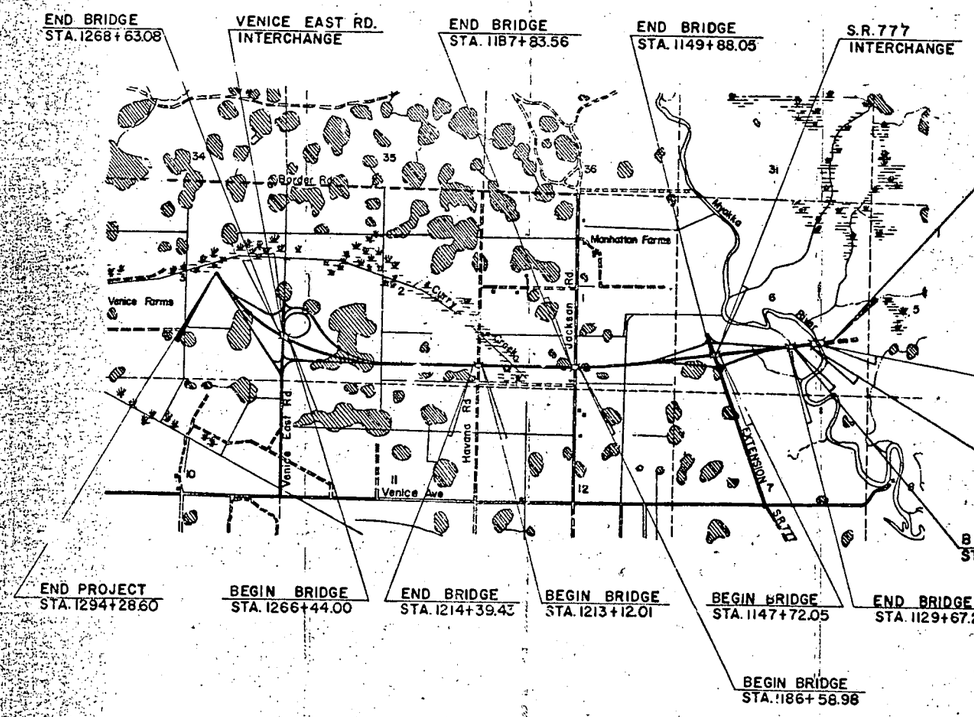
PLANS OF PROPOSED

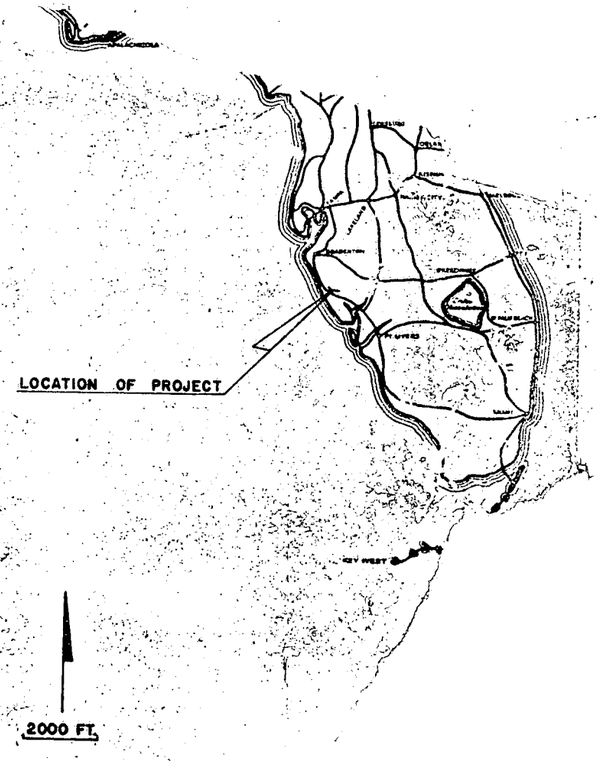
STATE HIGHWAY

F.A. PROJECT NO. EAC-I-75-6(13)393

SARASOTA COUNTY

STATE ROAD NO. 93





NOTE: LIGHTING MARKING IN A PUT

REV

ATTENT THESE SIZE BI CONSIS

LENGTH OF PROJECT		
	LIN. FT.	MILES
ROADWAY	16,357.02	3.098
BRIDGES	1,311.58	0.248
NET LENGTH OF PROJECT	17,668.60	3.346
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	17	

NOTE: LENGTH OF PROJECT BAS

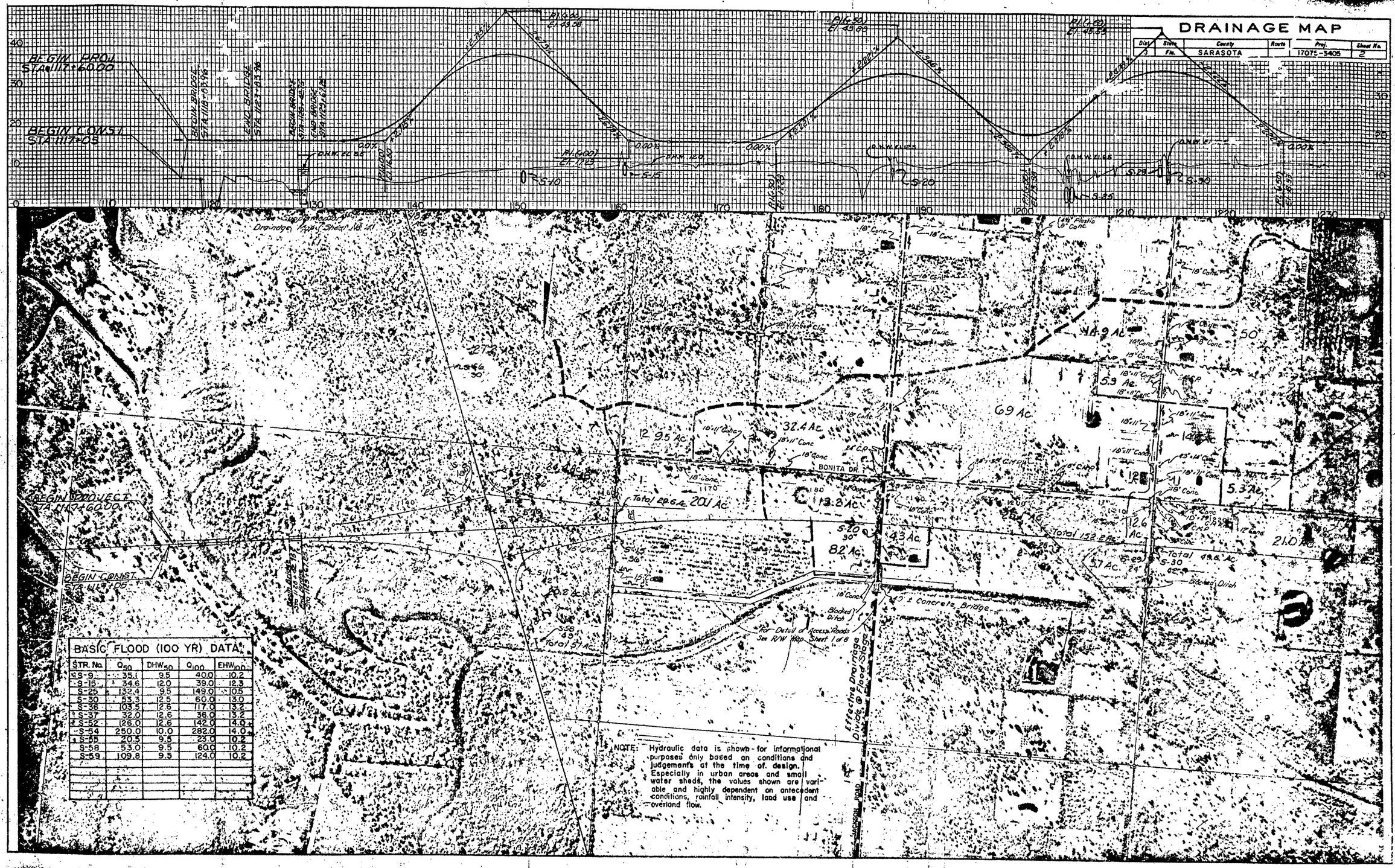
PREPARED BY

BEISWENGER, HOCH & ASSOCIATES, INC.
CONSULTING
ENGINEERS

NORTH MIAMI BEACH

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
1	Fla.	SARASOTA		17075-5405	2



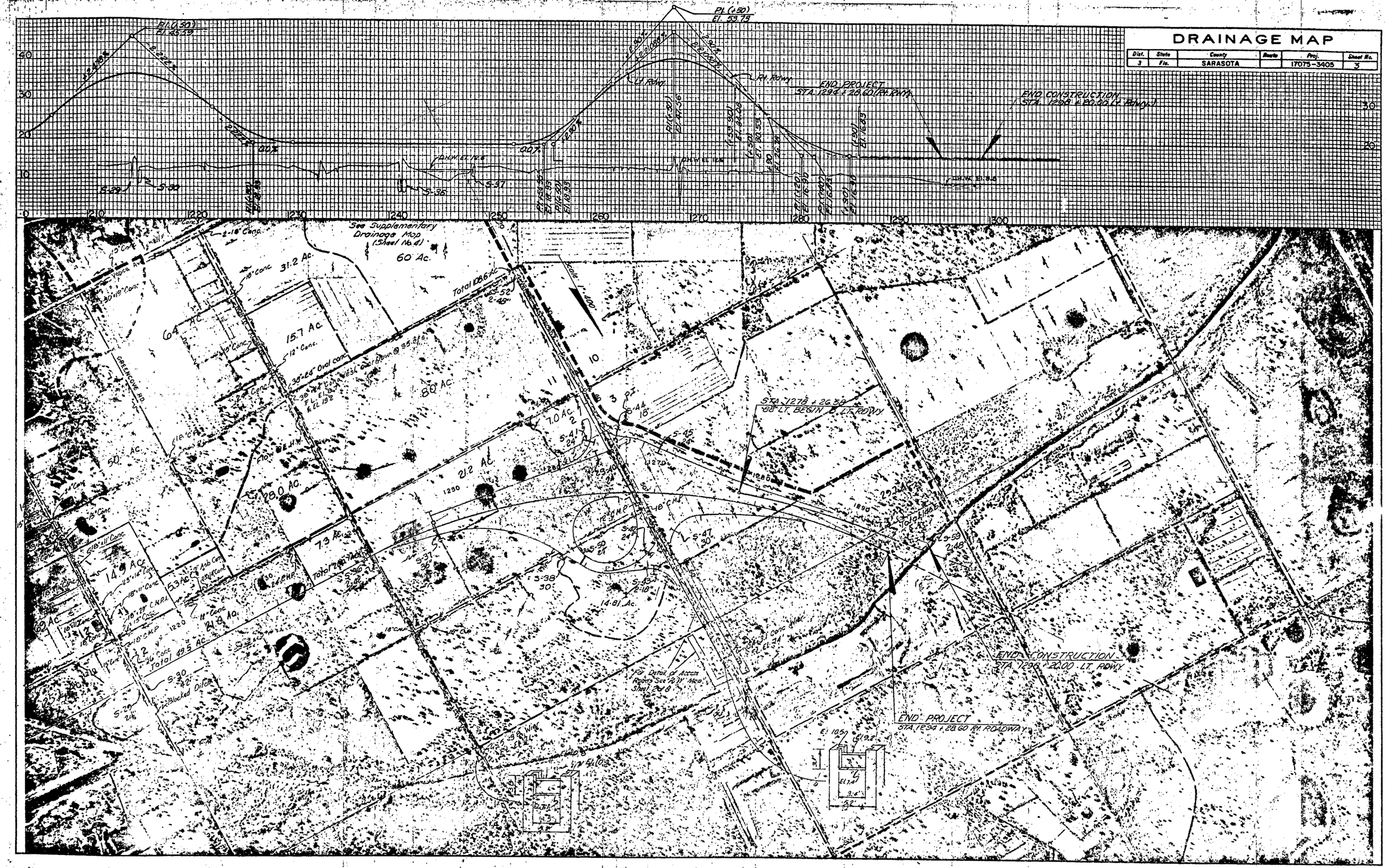
BASIC FLOOD (100 YR) DATA

STR. No.	Q_{50}	DHW_{50}	Q_{100}	EHW_{100}
S-9	35.1	9.5	40.0	10.2
S-15	34.6	12.0	39.0	12.3
S-25	132.4	9.5	149.0	10.5
S-30	53.3	12.5	60.0	13.0
S-36	103.5	12.6	117.0	13.2
S-37	32.0	12.6	36.0	13.2
S-52	126.0	12.6	142.0	14.0
S-54	250.0	10.0	282.0	14.0
S-55	20.5	9.5	23.0	10.2
S-58	53.0	9.5	60.0	10.2
S-59	109.8	9.5	124.0	10.2

NOTE: Hydraulic data is shown for informational purposes only based on conditions and judgements at the time of design. Especially in urban areas and small water sheds, the values shown are variable and highly dependent on antecedent conditions, rainfall intensity, land use and overland flow.

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
3	Fla.	SARASOTA		17075-3405	3



BEISWENGER, HOCH & ASSOCIATES
CONSULTING ENGINEERS

STATE PROJ. NO.	SHEET NO.
17075-3405	4

SUPPLEMENTARY DRAINAGE MAP

Scale: 1" = 400'

620 Ac.

VENICE AVEN

24" Conc

2-15" Conc (Abandoned)

18.5 Ac

3-55
2-24"

S.R. 776

27.2 Ac

M.S.-86
30"

9.5 Ac

18" Conc

24.4 Ac

5-9
36"

5-8
18"

5-7
24"

6-10
36"

5-15
36"

20.1 Ac

24" Conc

12" Conc
8" Vitrified Clay

18" Conc

24" C.M.P.

GLADEN VIEW RD.

42" C.M.P.

30" Conc

15" C.M.P.

15" Conc

18" Conc

HAVANA RD.

GREENGROVE DR.

FELLSMERE DR.

64 Ac.

50 Ac.

24" Conc

15" Conc

12" Conc

18" C.M.P.

24" Plastic
18" C.M.P.

3.12 Ac.

60 Ac.

15.7 Ac.

38"-21"

5-52
12

FED. ROAD DIVN. NO.	STATE	JOB NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	FLA.	17075-3406			5

BEISWENGER, HOCH & ASSOCIATES
CONSULTING ENGINEERS

Normal Flow Doesn't effect Design Drainage Ridge

END PROJECT
STA. 1294+28.60 (RT. RDWY)
STA. 1294+52.87 (LT. RDWY)

BEGIN PROJECT
STA. 1117+60.00

NO	REVISION	DATE

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

SUPPLEMENTARY DRAINAGE MAP

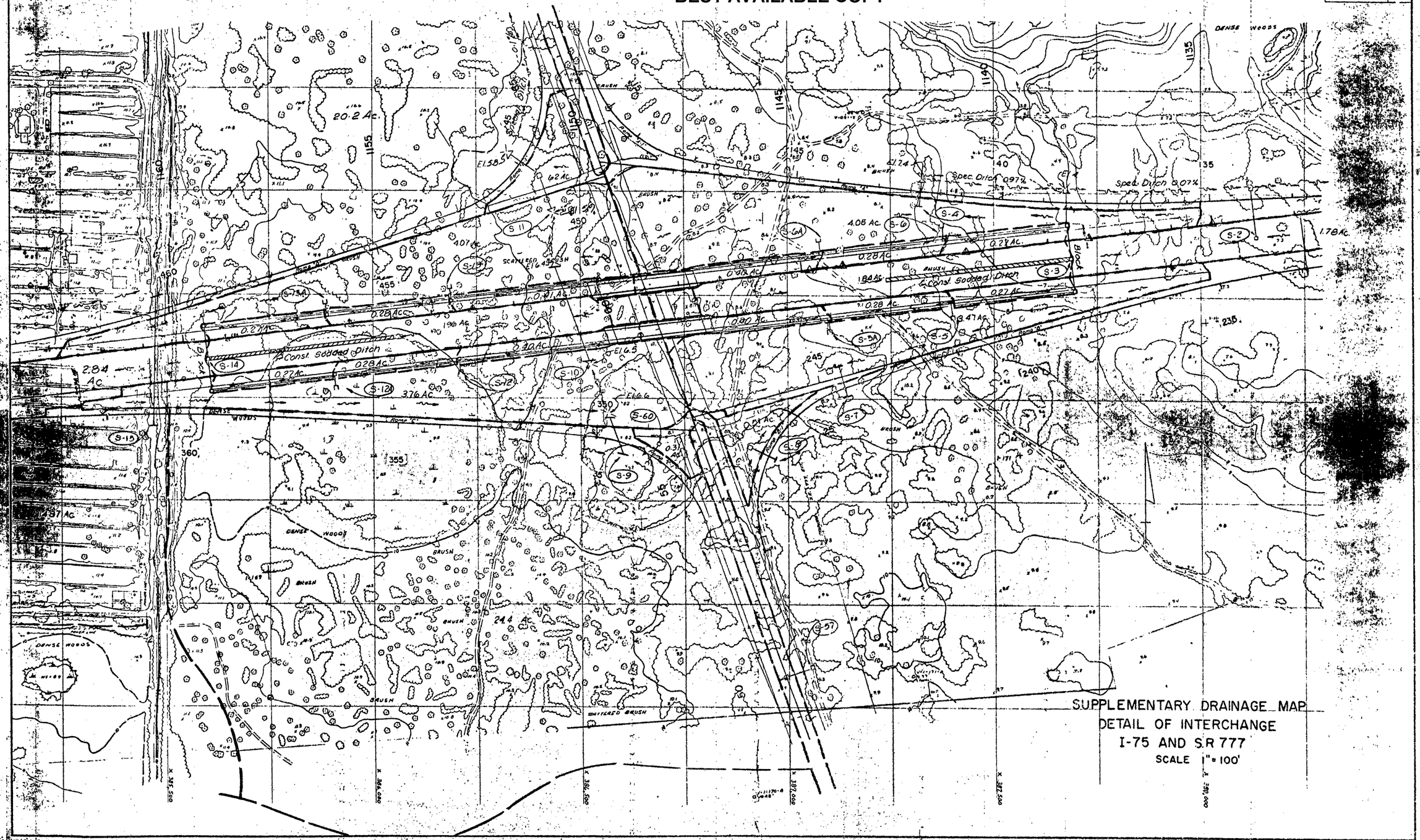
SCALE: 1" = 2000'

BEISWENGER HOCH AND ASSOCIATES INC.
CONSULTING ENGINEERS NORTH MIAMI BEACH

MADE	DATE	TRACED	DATE
CHECKED	DATE	SCALE	

DRAWING NO.

STATE PROJECT NO.	SHEET NO
17075-3405	6



STATE PROJECT NO.	SHEET NO.
17075-3405	7

Spec. Ditch (0.00%) (Connect to Exist. Ditch STA. 62+00)

Spec. Ditch (0.00%) (Connect to Exist. Ditch STA. 63+00)

EL. 96

14.81 Ac.

1.38 Ac.

2.8 Ac.

8.29 Ac.

5.76 Ac.

2.60 Ac.

7.66 Ac.

4.92 Ac.

0.62 Ac.

0.97 Ac.

7.00 Ac.

0.92 Ac.

2.50 Ac.

0.26 Ac.

1.72 Ac.

21.20 Ac.

Ramp "D"

Ramp "E"

Ramp "F"

Ramp "G"

Special sodding (For sodding limits see cross sections)

Spec. Ditch 0.13%

Spec. Ditch 0.2%

Spec. Ditch 0.2%

Spec. Ditch 0.47%

Spec. Ditch 0.05%

E 376,000

E 376,150

Y 1,009,000

Y 1,009,500

S-38 S-39 S-39A S-40 S-41 S-42 S-43 S-44 S-45 S-46 S-47 S-48 S-49 S-50 S-51

SUPPLEMENTARY DRAINAGE MAP
DETAIL OF INTERCHANGE
I-75 and VENICE EAST ROAD

SCALE: 1" = 100'

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
3	Fla.	SARASOTA		17075-3406	2

LEFT RDWY.

BASIC FLOOD (100 YR.) DATA				
STR NO.	Q100	DHW100	Q10	EHW10
DRY	69	5	16	10.5
5A	68	9.5	16	10.5
5	111	13	25	14.5
5A	43	9.0	47	15.0
S-B	195	14.6	40	15.5
S-M	151	14.6	39	15.5

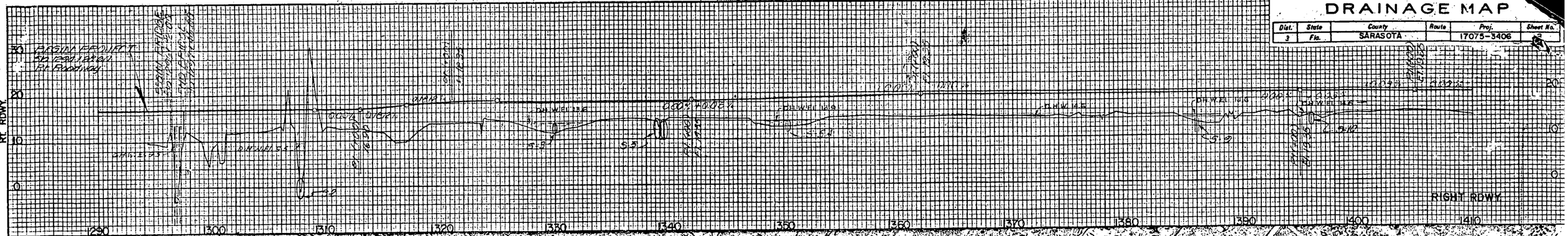
REVISED 1-79

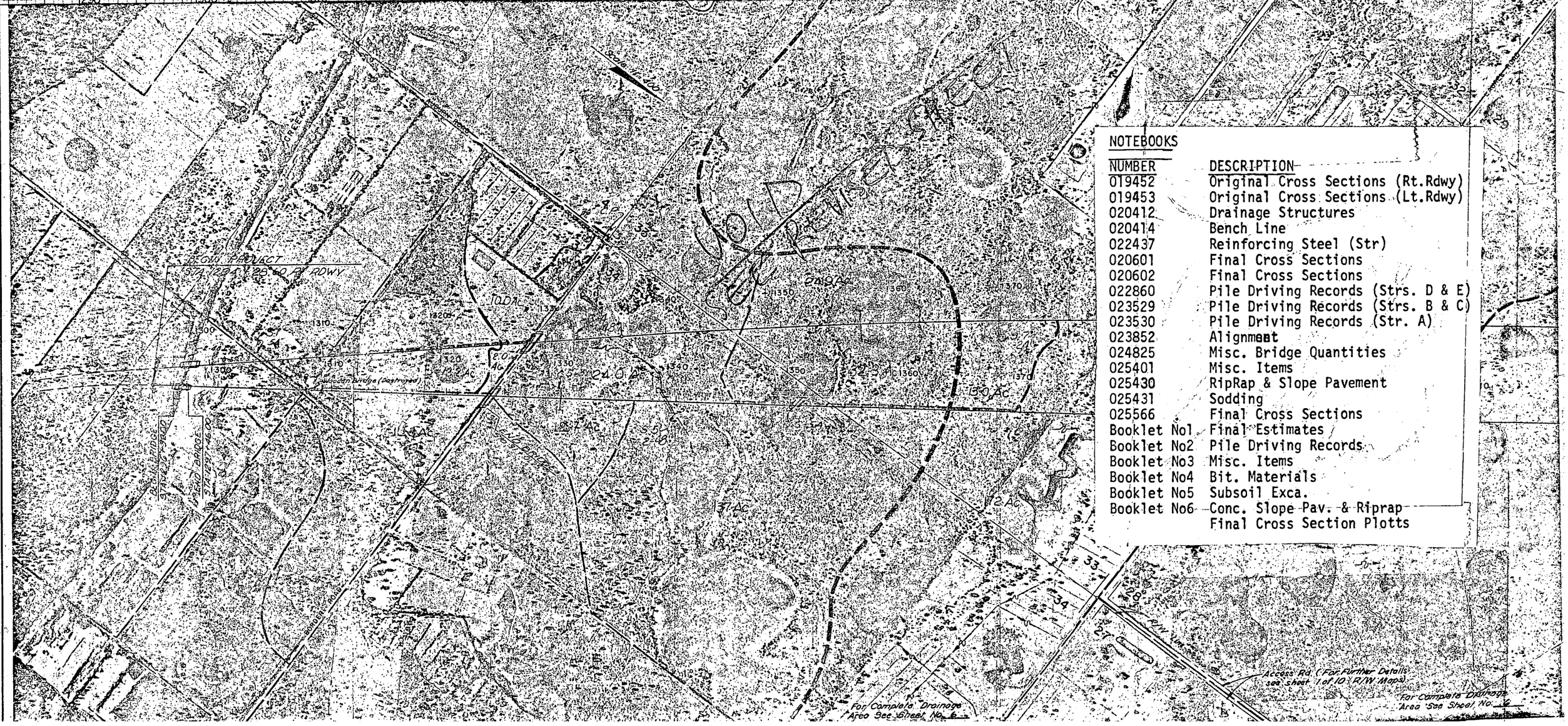
For Complete Drainage Area See Sheet

For Complete Drainage Area See Sheet No.

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
1	Fla.	SARASOTA		17075-3406	3





NOTEBOOKS

NUMBER	DESCRIPTION
019452	Original Cross Sections (Rt.Rdwy)
019453	Original Cross Sections (Lt.Rdwy)
020412	Drainage Structures
020414	Bench Line
022437	Reinforcing Steel (Str)
020601	Final Cross Sections
020602	Final Cross Sections
022860	Pile Driving Records (Strs. D & E)
023529	Pile Driving Records (Strs. B & C)
023530	Pile Driving Records (Str. A)
023852	Alignment
024825	Misc. Bridge Quantities
025401	Misc. Items
025430	RipRap & Slope Pavement
025431	Sodding
025566	Final Cross Sections
Booklet No1	Final Estimates
Booklet No2	Pile Driving Records
Booklet No3	Misc. Items
Booklet No4	Bit. Materials
Booklet No5	Subsoil Exca.
Booklet No6	Conc. Slope Pav. & Riprap
	Final Cross Section Plotts

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
3	Fla.	SARASOTA		17075-3406	3

RT. ROWY.

RIGHT R/WY

1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390 1400 1410

Old Revised Rte

For Complete Drainage Area See Sheet No. 6

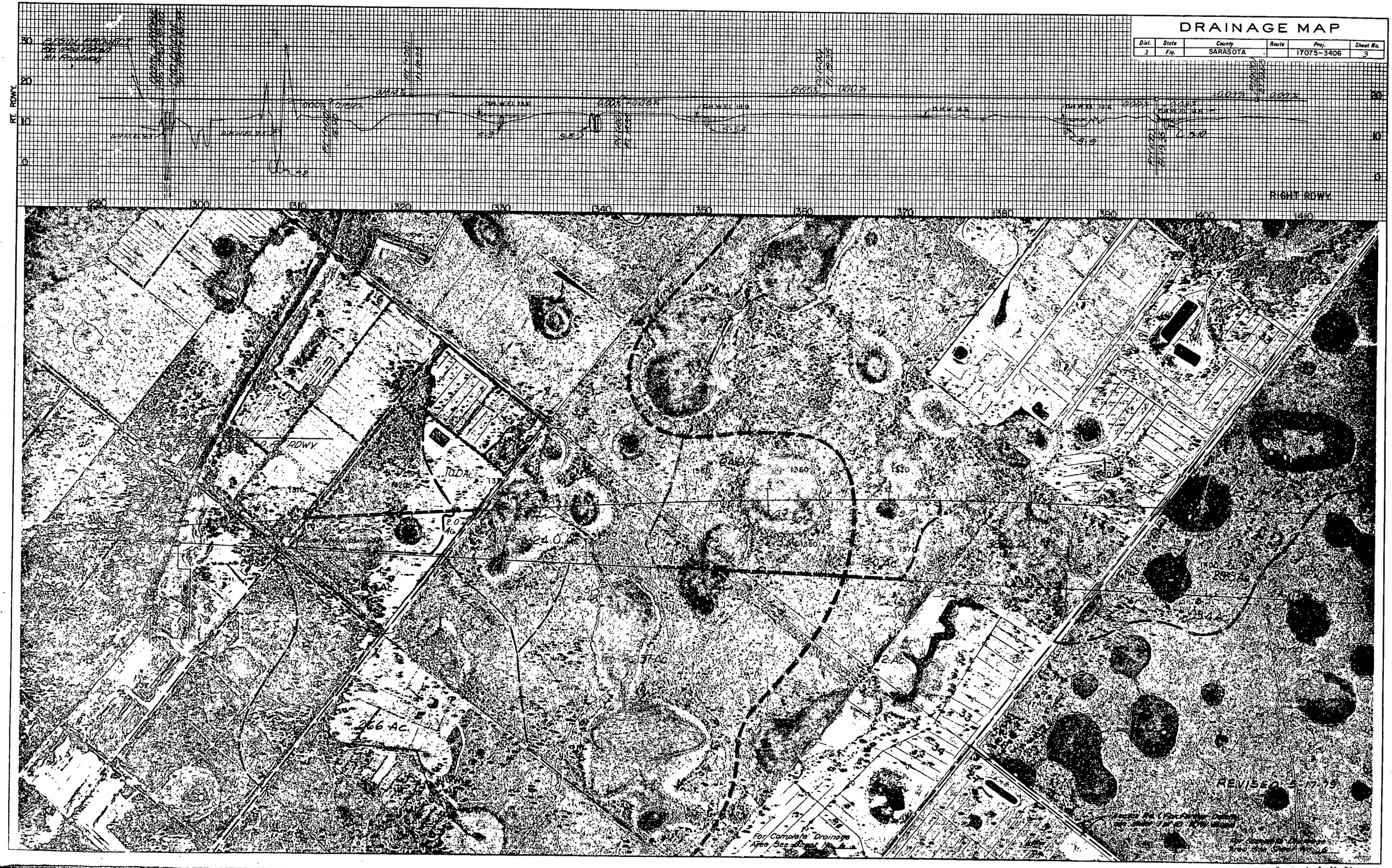
Access Rd. (For Further Details See sheet 1 of 11 "R/W Maps)

Revised 3-22-79

BEST AVAILABLE COPY

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
3	Fla.	SARASOTA		17075-3406	3



Revised 3-22-79

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
3	Fla.	SARASOTA		17075-3406	4

NOT IN THIS CONTRACT
TO BE CONSTRUCTED UNDER
STATE PROJ NO. 17075-3414

End Earthwork
Sta. 1436+50.00

End Const.
Sta. 1434+00.00
Lt. Rdwy.

LT. RDWY.

LEFT RDWY.

NOT IN THIS CONTRACT
TO BE CONSTRUCTED UNDER
STATE PROJ NO. 17075-3414

End Earthwork
Sta. 1436+50.00

End Const. Lt. Rdwy
Sta. 1434+00.00

REVISED SHEET

SALT CREEK

FOX CREEK

Road N Line

Road R/W Line

5.40 Ac

5.53 Ac

3.0 Ac

8.8 Ac

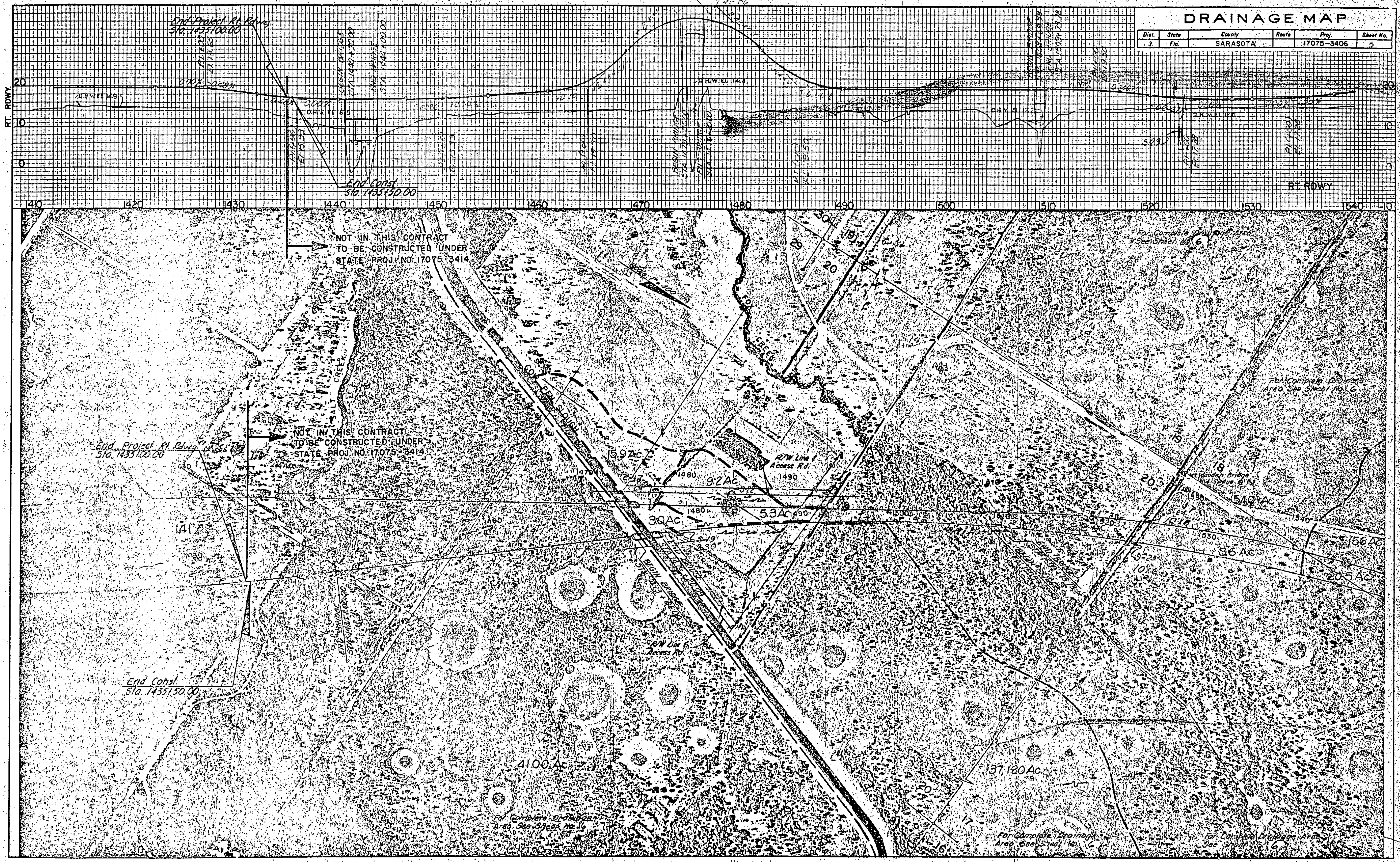
37.20 Ac

41.05 Ac

For Complete Drainage Area See Sheet No. 6

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
3	Fla.	SARASOTA		17075-3406	5



End Project
Sta 1435100.00 Rt. Rdwy

BEGIN PROJECT
STA. 1294 + 22.60 (RT. RDWY)

Normal flow does not affect design drainage Ridge

Coon Pen Slough

Gall Creek

Curry Creek

Myakka River

Myakka River State Park

Lower Myakka Lake

Tatum Sawgrass Canal

Watch Island

Shell Island

Ridge

Pine

Cow

Sheet No. 2

NO	REVISION	BY	DATE

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

SUPPLEMENTARY
DRAINAGE MAP
SCALE: 1" = 2000'

BEISWENGER HOCH AND ASSOCIATES INC.
CONSULTING ENGINEERS NORTH MIAMI BEACH

MADE	DATE	TRACED	DATE
CHECKED	DATE	SCALE	

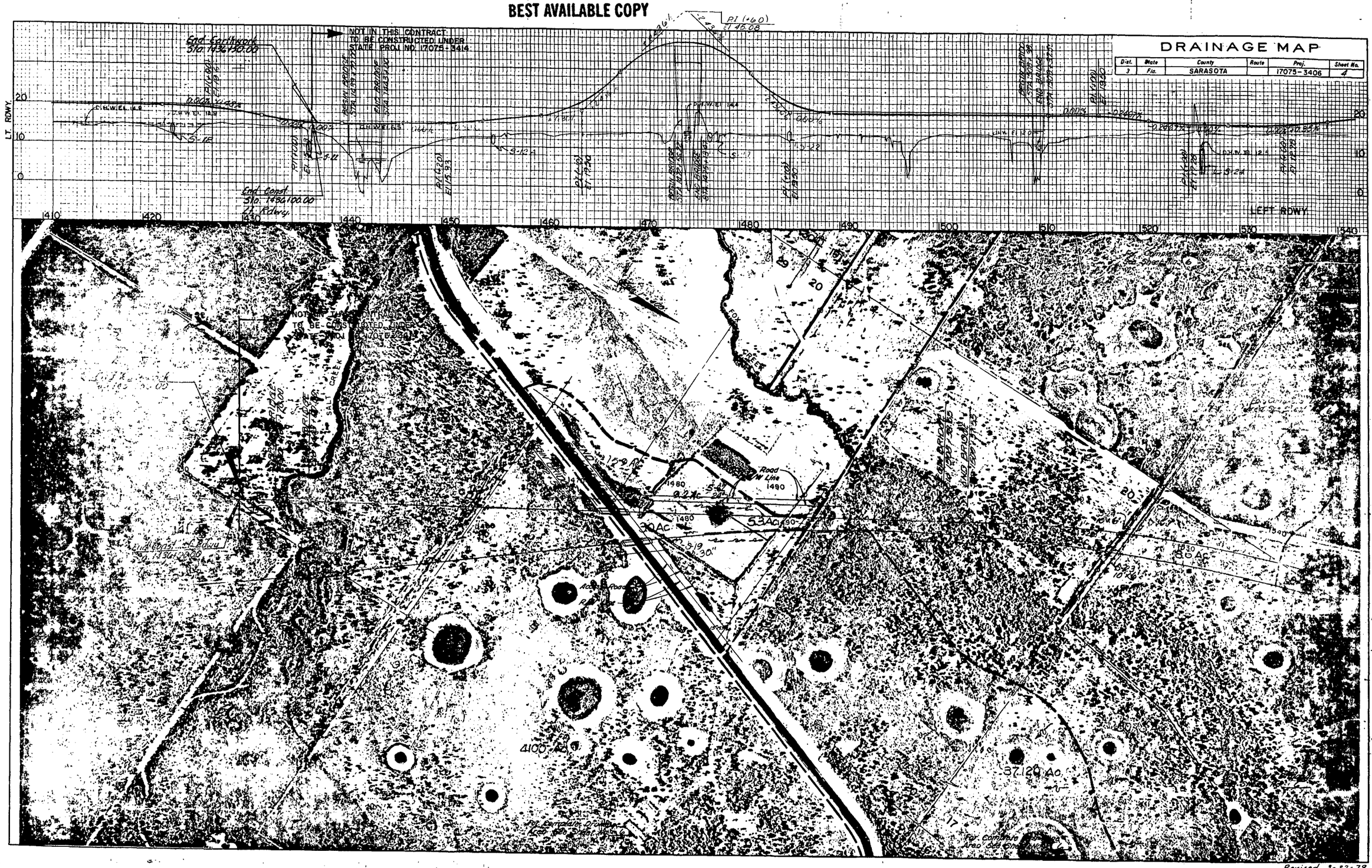
DRAWING NO.

BEISWENGER, HOCH & ASSOCIATES
CONSULTING ENGINEERS

BEST AVAILABLE COPY

DRAINAGE MAP

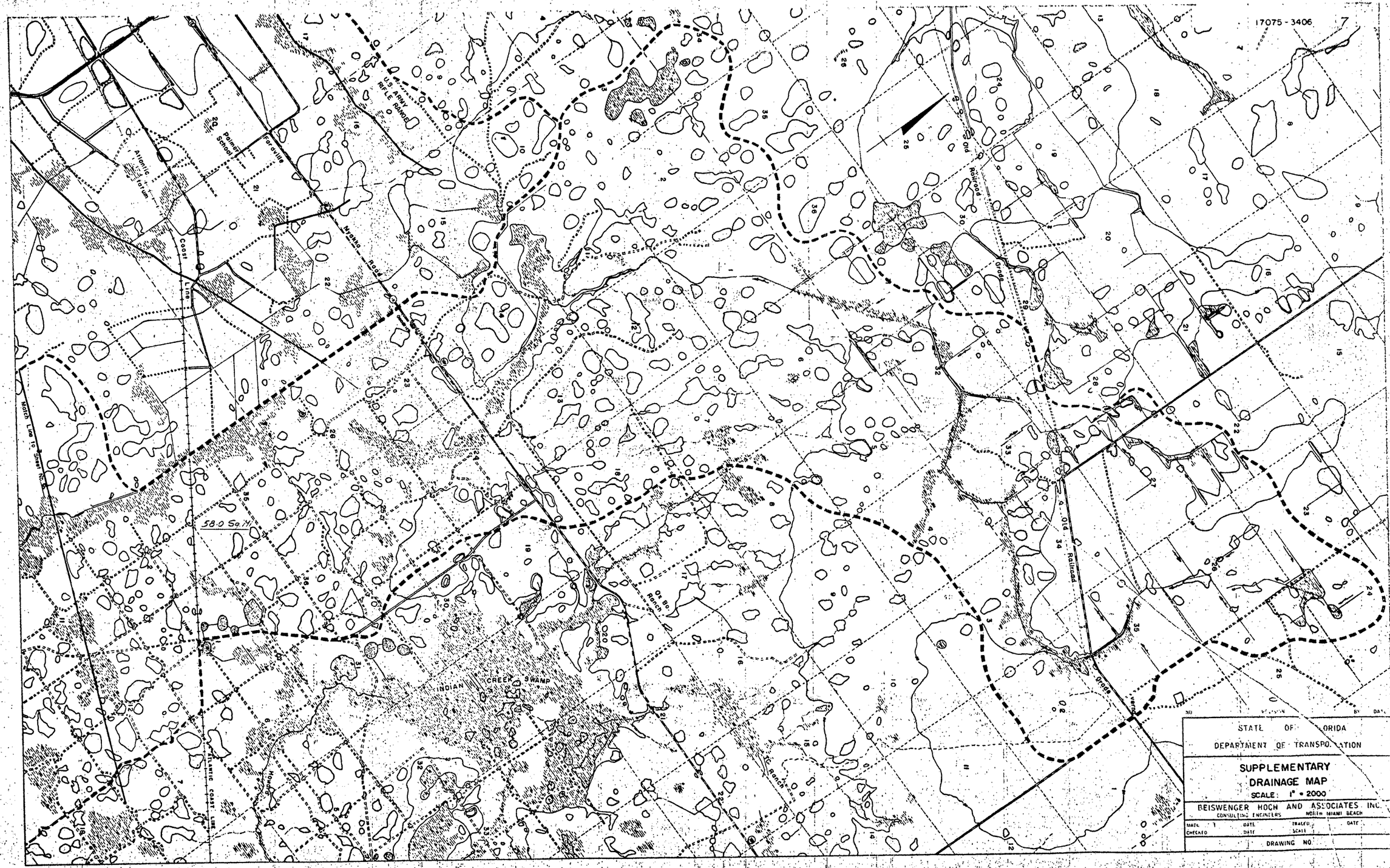
Dist.	State	County	Route	Proj.	Sheet No.
3	Fla.	SARASOTA		17075-3406	4



Revised 3-22-79

BEST AVAILABLE COPY

17075 - 3406



STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

SUPPLEMENTARY
DRAINAGE MAP
SCALE: 1" = 2000

BEISWENGER HOCH AND ASSOCIATES, INC.
CONSULTING ENGINEERS
NORTH MIAMI BEACH

MADE	DATE	TRACED	DATE
CHECKED	DATE	SCALE	

DRAWING NO.

BEISWENGER HOCH AND ASSOCIATES, INC.

THIS CONTRACT PLAN SET INCLUDES

ROADWAY PLANS

STRUCTURE PLANS

A DETAIL INDEX APPEARS ON THE KEY SHEET OF EACH GROUP OF PLANS

FINAL PLANS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

~~PLANS OF PROPOSED~~

STATE HIGHWAY

F.A. PROJECT NO. I-75-6(15)398 CONTRACT II
SARASOTA COUNTY
STATE ROAD NO. 93

MAINTENANCE

INDEX OF ROADWAY PLANS

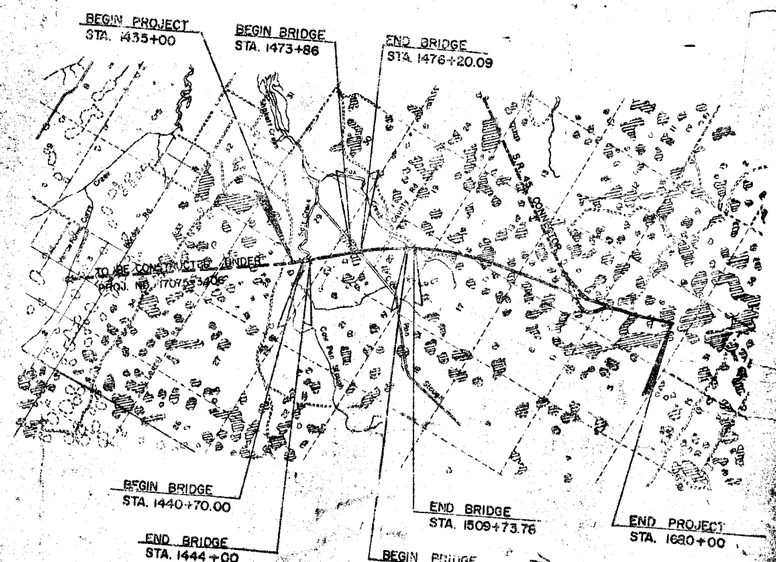
SHEET NO.	SHEET DESCRIPTION
1	Key Map
2-7	Drainage Maps
8-9	Supplementary Drainage Maps
10-11A	Typical Sections
12-13	Special Details
14	Summary of Quantities
15	Summary of Drainage Structures
16-26	Plan and Profiles
27	Layout of Interchange
28-29	Terminal Details
30-34	Ramp and Access Road Profiles
35	Cross-Section Pattern
36-45	Drainage Structures
46-47	Roadway Soil Survey
48-129	Roadway Cross-Sections I-75
130-133	Roadway Cross-Sections Access Road
134-140	Selective Clearing and Grubbing
141-144	Utility Adjustments
145	Conduit Location
146-151	Index No. 11890 Concrete Approach Slabs
152	Index No. 11891 Concrete Approach Slabs
153-163	Index No. 11892 Concrete Approach Slabs
164	Single Concrete Box Culverts - Index 8013
165	Single Skewed 9810 Ft. Span Culverts - Index 8013-S

ROADWAY DESIGN STANDARDS (BOOKLET DATED JANUARY 1978)

GSS-01	Standard Symbols for Key Maps and Plan Sheets (3 Sheets)
GSA-01	Standard Abbreviations
GEU-01	Embankment Utilization Details
DCE-01	Concrete Endwalls
FTA-01-2	Details of Fencing
FLD-01	Details of Fencing
GEC-01	Erosion Control Devices Temporary Slope Drains
DSD-01	Supplementary Details for Manhole & Inlet Structures (2 sheets)
GEC-05	Erosion Control Devices Baled Hay or Straw
GRC-01-1	Miscellaneous Roadway Construction Details (2 sheets)
DCE-03	U-Endwalls for Pipe Culverts (3 sheets)
BGR-01-1	Guardrail Construction (5 sheets)
GSE-01	Superelevation Details
GTO-01-1	Turnout Details
RJ-01	Concrete Pavement Joints (3 sheets)
GRT-01	Standard Details for Ramp Terminals (4 sheets)
DSI-01	Gutter Inlet Type S
DCE-04-1	Flared End Section For Pipe Culverts
GEC-08	Erosion Control Devices, Silt Barriers

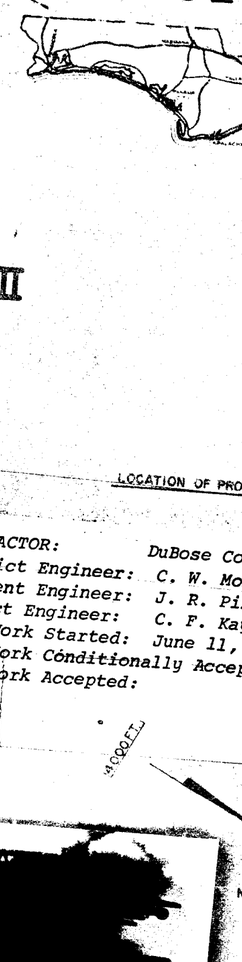
REVISIONS

SHEETS 1,4,5,14,16,17,18,21,22 (REVISED 12-22-77)
23,26,27,31,32,124,
165 Thru 165
SHEETS 1,6,11,12,13,14, 16, 21, 124 thru 149, (REVISED 1-26-78)
124 thru 135, and 138
SHEET 11A (ADDED TO PLANS 4-1-78)

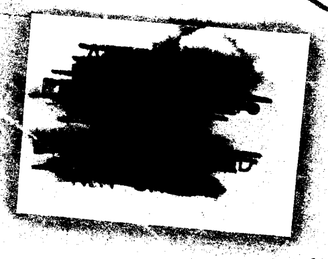


NOTE: Length of Project based on Right Roadway

LENGTH OF PROJECT	LIN. FT.	MILES
ROADWAY	23,831.51	4.514
BRIDGES	668.49	0.126
NET LENGTH OF PROJECT	24,500.00	4.640
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	24,500.00	4.640



CONTRACTOR: DuBose Construction Corp.
District Engineer: C. W. Monts De Oca
Resident Engineer: J. R. Pinion
Project Engineer: C. F. Kayser
Date Work Started: June 11, 1978
Date Work Conditionally Accepted: August 29, 1980
Date Work Accepted:



NOTE: Signing, Pavement Markings and Lighting Stags 2 will be constructed in a future contract.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA

GOVERNING SPECIFICATIONS: STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 1977

Designed By: Belswanger, Hoch & Associates Inc.
Consulting Engineers
Miami Fla.

Project Manger: D.W. Steymeyer

Revised By: K.N. Morefield
Date: 12-22-77

SUBMITTED BY _____
DIRECTOR OF ROAD OPERATIONS

APPROVED _____

INCLUDES

I THE KEY SHEET OF

ANS
ESCRIPTION

dinage Maps

ilities
nage Structures

hange

Road Profiles
ittern
res
rvey
Sections I-75
Sections Access Road
and Grubbing
is
Concrete Approach Slabs
Concrete Approach Slabs
Concrete Approach Slabs

ox Culverts - Index 8019
810 Ft. Span Culverts - Index 8019-3
OS(BOOKLET DATED JANUARY 1978)
ls for Key Maps and Plan Sheets (3 Sheets)
iations
lization Details
ls
g
g
Devices Temporary Slope Drains
tails for Manhole & Inlet Structures (2 sheets)

FINAL PLANS MAINTENANCE

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

~~PLANS OF PROPOSED~~

STATE HIGHWAY

F.A. PROJECT NO. I-75-6(15)398 CONTRACT II
SARASOTA COUNTY
STATE ROAD NO. 93

STATE PROJ NO. 175-3414 FED. NO. 148665 YEAR '77

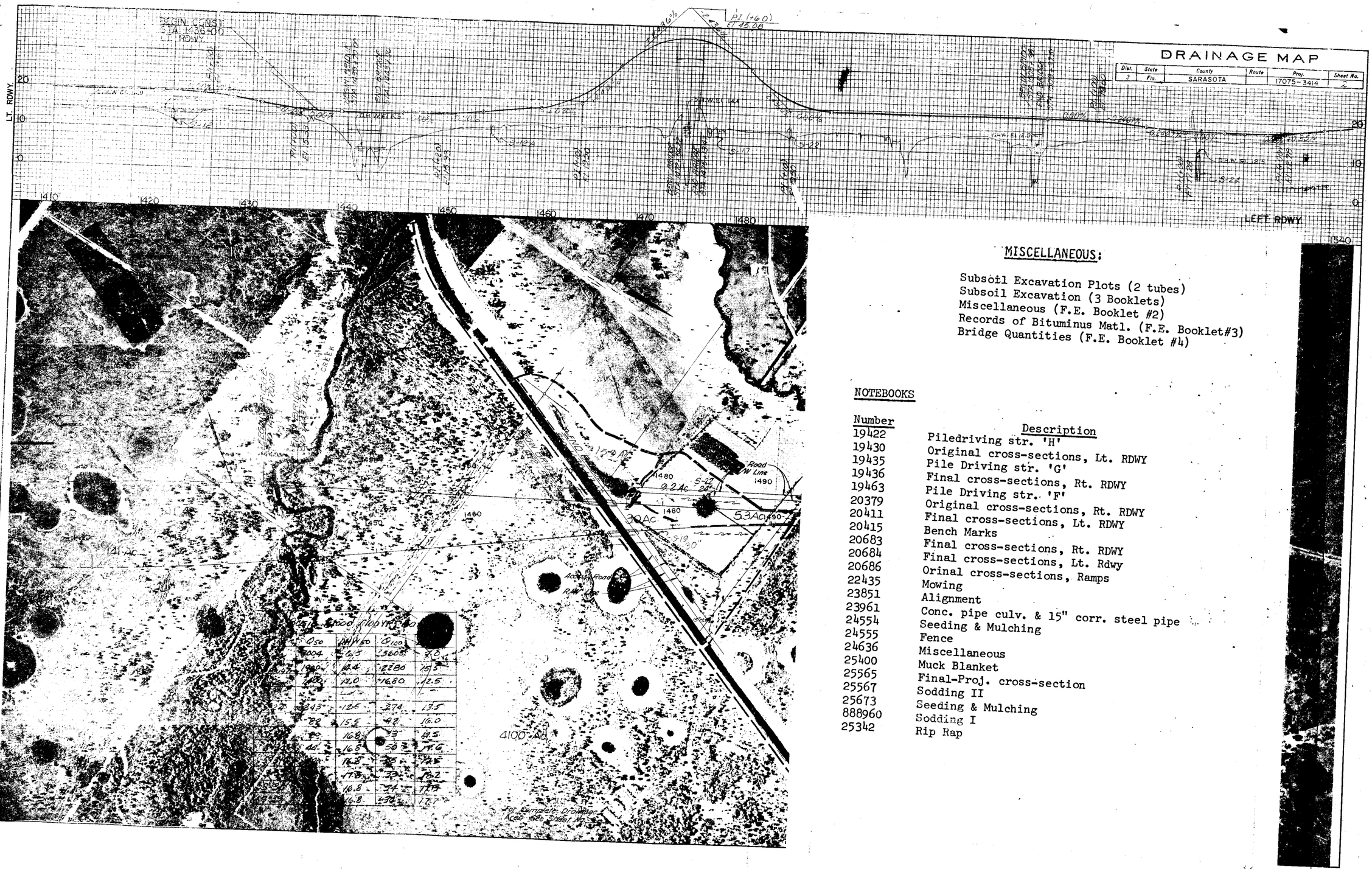
BEGIN PROJECT STA. 1435+00
BEGIN BRIDGE STA. 1473+86
END BRIDGE STA. 1476+20.09
TO BE CONSTRUCTED UNDER FED. PROJ. NO. I-75-6(15)398
BEGIN BRIDGE STA. 1440+70.00
END BRIDGE STA. 1509+73.78
END PROJECT STA. 1680+00

LOCATION OF PROJECT

CONTRACTOR: DuBose Construction Corp.
District Engineer: C. W. Monts De Oca
Resident Engineer: J. R. Pinion
Project Engineer: C. F. Kayser
Date Work Started: June 11, 1978
Date Work ~~Conditionally~~ Accepted: ~~August 29, 1980~~
Date Work Accepted:

NOTE:
Signing, Pavement Markings a
Lighting Stage 2 will be consti
in a future contract.

ATTENTION IS DIRECTED TO THE



MISCELLANEOUS:

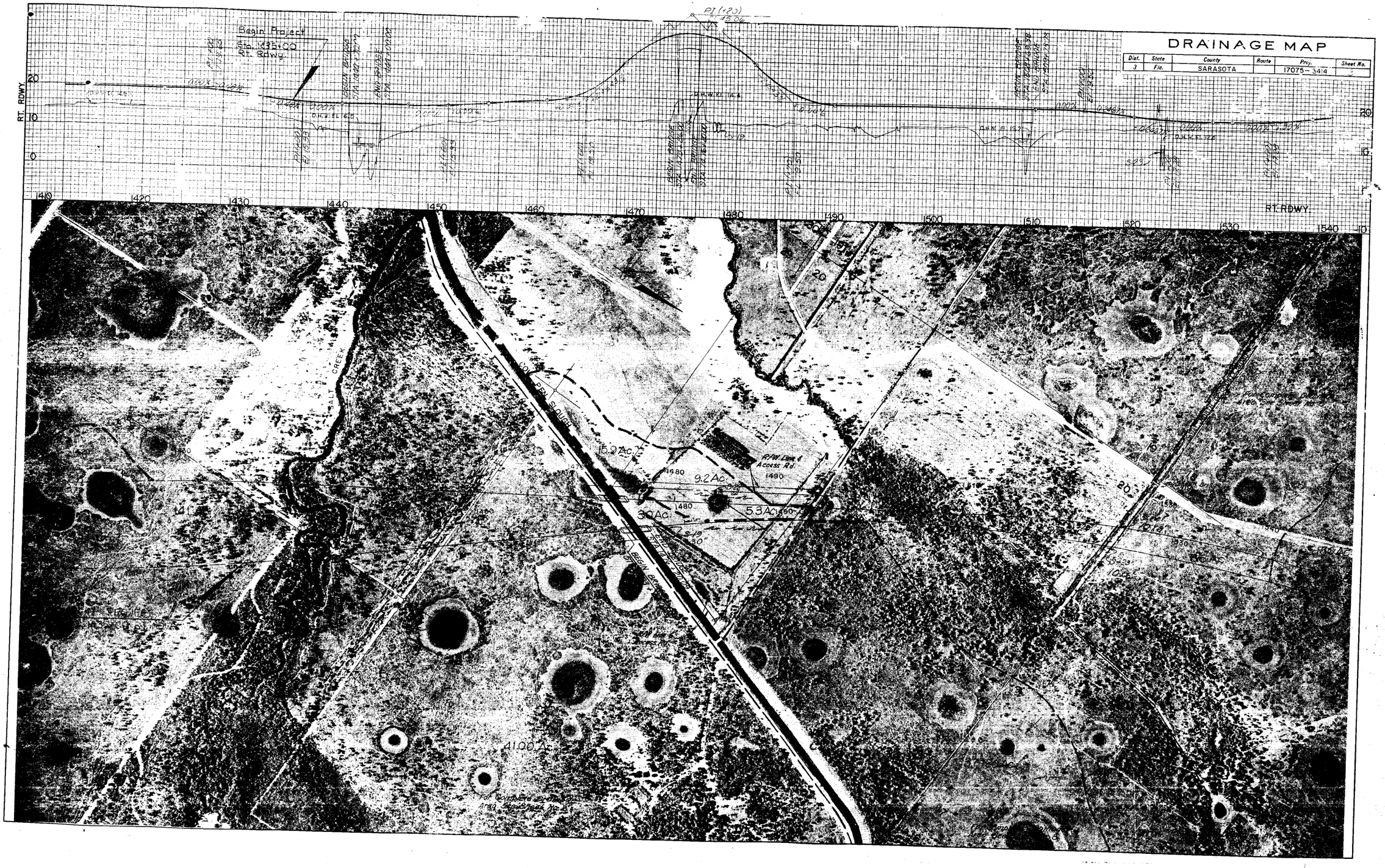
Subsoil Excavation Plots (2 tubes)
Subsoil Excavation (3 Booklets)
Miscellaneous (F.E. Booklet #2)
Records of Bituminus Matl. (F.E. Booklet#3)
Bridge Quantities (F.E. Booklet #4)

NOTEBOOKS

Number	Description
19422	Piledriving str. 'H'
19430	Original cross-sections, Lt. RDWY
19435	Pile Driving str. 'G'
19436	Final cross-sections, Rt. RDWY
19463	Pile Driving str. 'F'
20379	Original cross-sections, Rt. RDWY
20411	Final cross-sections, Lt. RDWY
20415	Bench Marks
20683	Final cross-sections, Rt. RDWY
20684	Final cross-sections, Lt. Rdwy
20686	Orinal cross-sections, Ramps
22435	Mowing
23851	Alignment
23961	Conc. pipe culv. & 15" corr. steel pipe
24554	Seeding & Mulching
24555	Fence
24636	Miscellaneous
25400	Muck Blanket
25565	Final-Proj. cross-section
25567	Sodding II
25673	Seeding & Mulching
888960	Sodding I
25342	Rip Rap

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
3	Fla.	SARASOTA		17075-3414	



DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
3	Fla.	SARASOTA		17075-3414	4

LT RDWY

LEFT RDWY.

For Complete Drainage Area See Sheet No. 8

FLA. POWER & LIGHT TRANSMISSION LINE

Note: Bridge and Approach slabs on S.R. 45 connector (Romeo) over I-75 are not in this contract. They will be let in a separate contract.

156 Ac

60 Ac

19.7 Ac

15.7 Ac

22.5 Ac

16.3 Ac

19.1 Ac

22.3 Ac

28.7 Ac.

3075 Ac

For Complete Drainage Area See Sheet No. 8

Revised 12-22-77

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
3	Fla.	SARASOTA		17075-3414	5

RT. RDWY.

RT. RDWY.

1540 1550 1560 1570 1580 1590 1600 1610 1620 1630 1640 1650 1660 1670

For Complete Drainage Area See Sheet No. 6

FLA. POWER & LIGHT TRANSMISSION LINE

Note: Bridge and Approach Slab Details Are Presented On Sheet No. 18

For Complete Drainage Area See Sheet No.

Revised 12-22-77

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
3	Fla.	SARASOTA		17075-3414	6

EW0 CONSTRUCTION
STA. 1680+00.00 LT. ROADWAY

O.H.W.L. 17.8

S. 3.6

LT. RDWY.

30
20
10
0

670 1680 1690 1700 1710

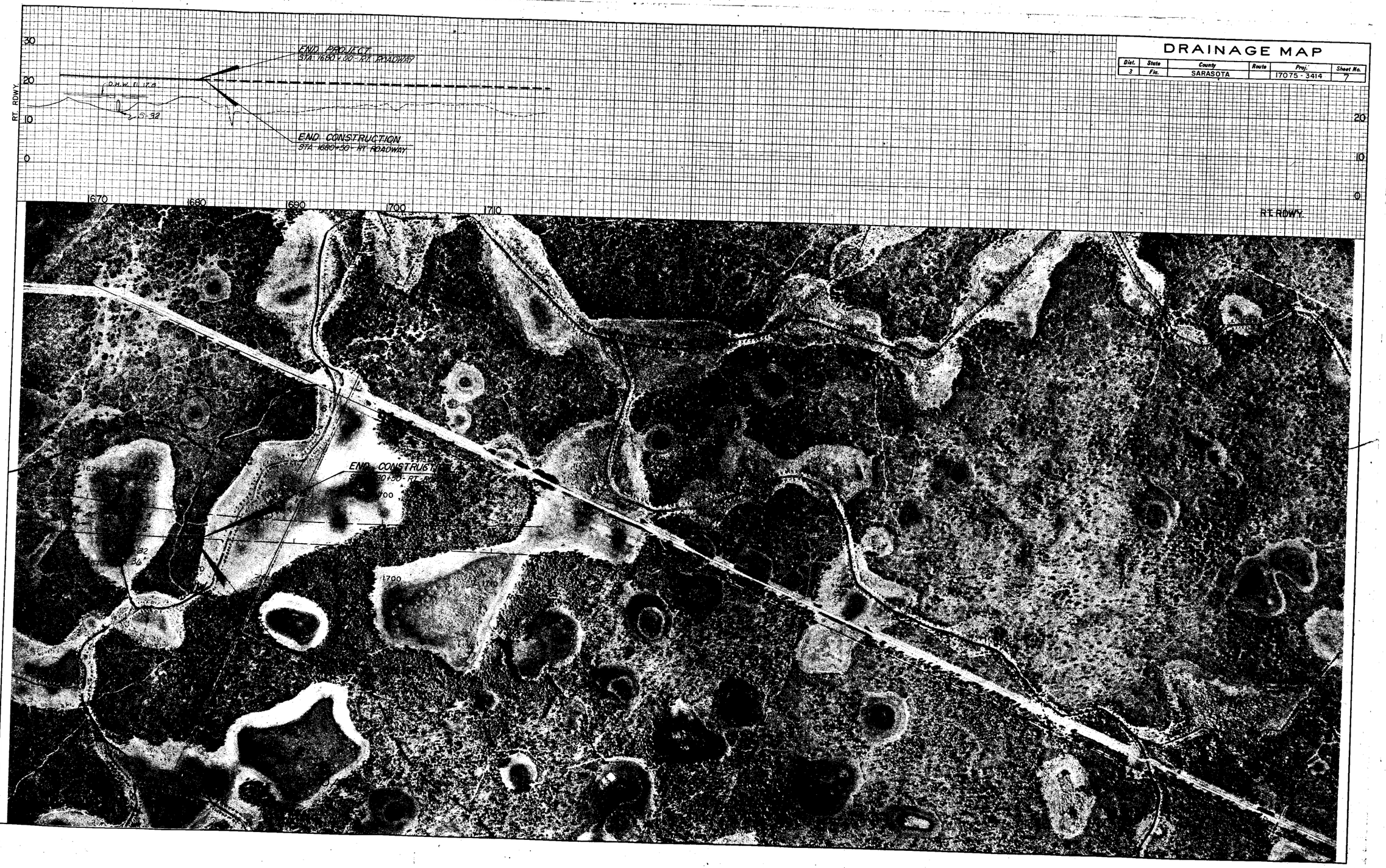
LEFT RDWY.

20
10
0

BEISWENGER, HOCH & ASSOCIATES
CONSULTING ENGINEERS

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
3	Fla.	SARASOTA		17075 - 3414	7



BEISWENGER, HOCH & ASSOCIATES
CONSULTING ENGINEERS

BEISWENGER, HOCH & ASSOCIATES
CONSULTING ENGINEERS

3	FLA	17075-3414		8

540 Ac.
273 Ac.
156 Ac.
END PROJECT STA 1680+00.00 (RT. R/W)
2.8 Sq MI
58.0 Sq MI
Cow Pen Slough
BEGIN PROJECT STA 1435+00 (RT. R/W)
Salt Creek
I-75
64 Sq MI.
172 Ac.
137 Ac.
Normal Flow does not affect Design Drainage Ridge
Venice East
3.8 Sq MI.
60 Ac.
Curry Creek
Myakka River
Myakka River State Park
Lower Myakka Lake
Myakka Ridge
Fire Tower
Ranch Line
To Sheet No 9

NO	REVISION	BY	DATE

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

SUPPLEMENTARY DRAINAGE MAP

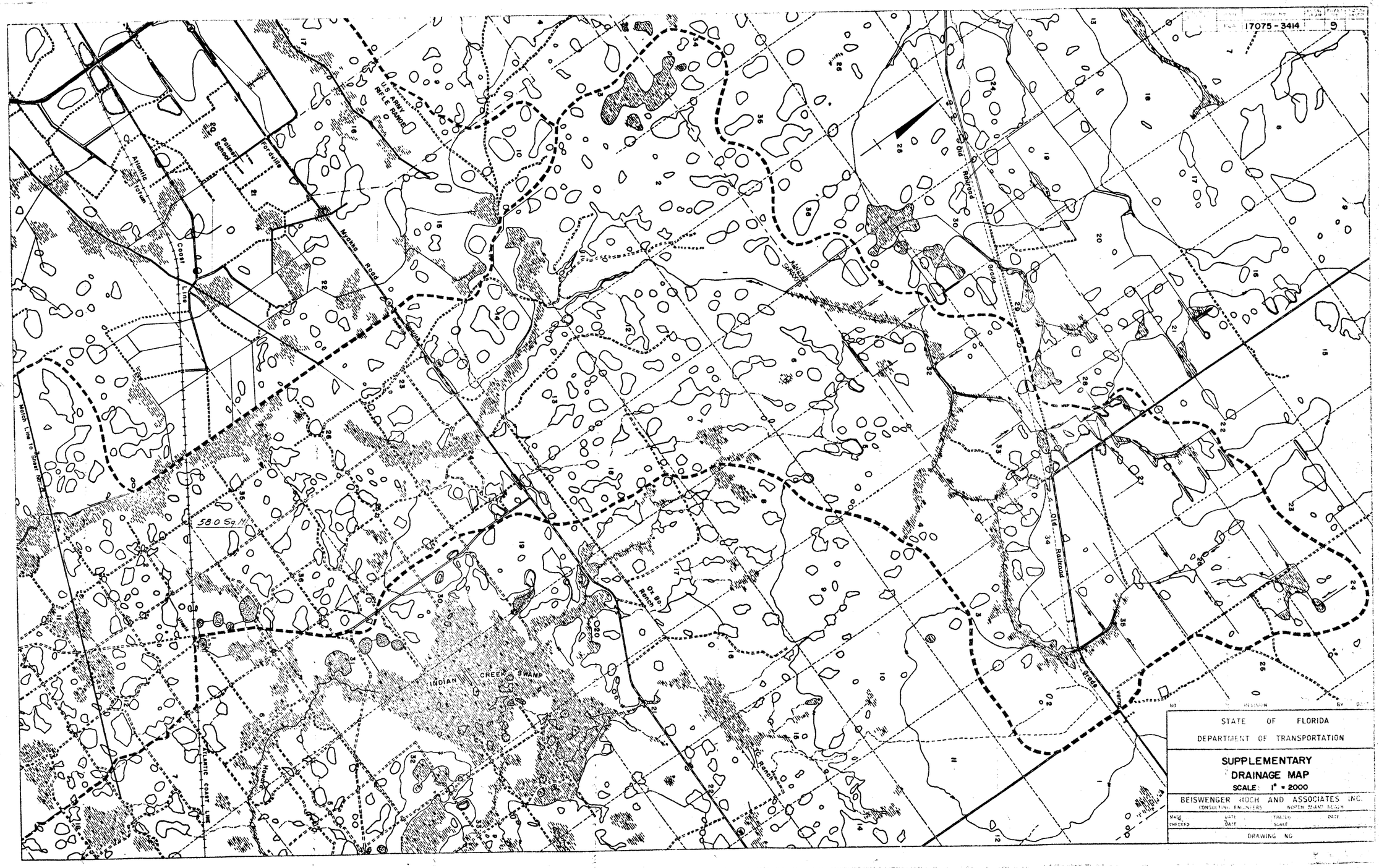
SCALE: 1" = 2000

BEISWENGER HOCH AND ASSOCIATES INC.
CONSULTING ENGINEERS NORTH MIAMI BEACH

MADE	DATE	TRACED	DATE
CHECKED	DATE	SCALE	

DRAWING NO.

17075-3414 9



STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

SUPPLEMENTARY DRAINAGE MAP

SCALE: 1" = 2000

BEISWENGER HOCH AND ASSOCIATES, INC.
CONSULTING ENGINEERS NORTH MIAMI BEACH

MADE	DATE	TRACED	DATE
CHECKED	DATE	SCALE	

DRAWING NO.

NO. REVISION BY DATE

BEISWENGER HOCH AND ASSOCIATES

FINAL PLANS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

~~PLANS OF PROPOSED~~

STATE HIGHWAY

F.A. PROJECT NOS. E-ACI-75-6(19)410 & M-0966(1)

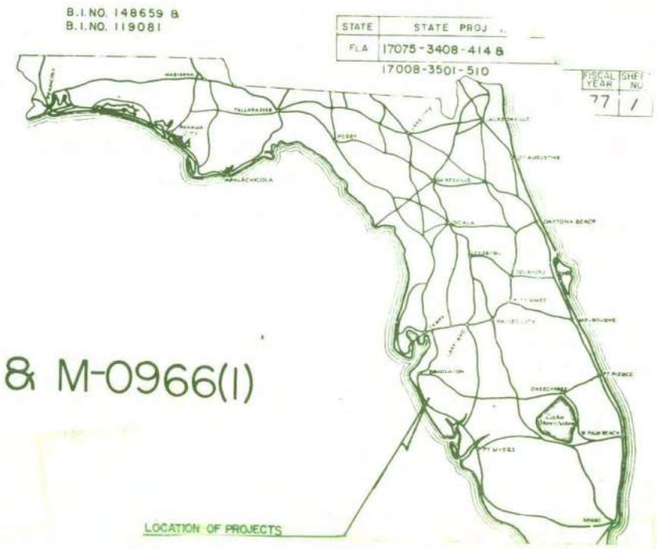
SARASOTA COUNTY

STATE ROAD NOS. 93 & 616

B.I.NO. 148659 B
B.I.NO. 119081

STATE	STATE PROJ
FLA	17075-3408-414 B
	17008-3501-510

FISCAL YEAR	SHEET NO
77	1



Contractor: Ballenger Corp.
District Engineer: C.W. Monts De Oca
Resident Engineer: J.R. Pinion
Project Engineer: C.A. Crews
Date Work Started: July 6, 1978
Date Work Completed: April 8, 1982
Date Project Final Accepted:

THIS CONTRACT PLAN SET INCLUDES
Roadway Plans
Signing and Pavement Marking Plans
Structure Plans
Signalization Plans Stage 1
A detailed index appears on the Key Sheet of each group of plans.

INDEX OF ROADWAY PLANS

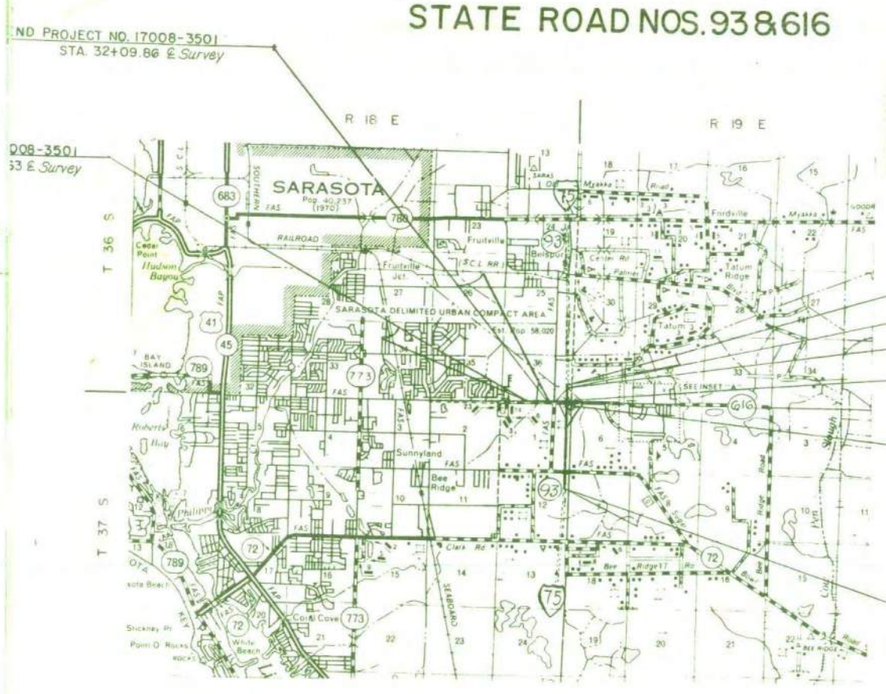
NOT BOOKS:

Number	Description
022952	Surcharge Embankment.
022414	Bridge over Proctor Rd. Str. B
022904	Seed and Mulch
025387	Misc. Measurements
026930	Concrete Pipe
025388	Roadside Signs
025386	Fencing
023926	Alignment
025522	Cross Sect. Final
019459	Bench Marks
019460	Profile & Cross Sect.
019458	Final Cross Sect. (Subsoil Excava.)
023962	I-75 over Bee Ridge Rd. Str. C
023360	Sodding (temp) & Topsoil
025638	Sod
025639	Seed and Mulch
024673	Misc.
023358	Mowing and Seed and Mulch
025389	Conc. Pipe Culvert

COMPUTER OUTPUT BOOKLETS
Final Est. Booklet No. 1
Seed and Mulch
Bridge Computations "A"
Bridge Computations "B"
Slope Pavements
Sodding
Comm. Stab. Matl Output
Bituminous Matl. Booklet
Pile Driving Quantities
Surcharge Matl. Booklet w/plotts
Subsoil Excavation Booklet w/plotts
Original Comp. Booklet 17075-3408
Original Comp. Booklet 17008-3501
Final Comp. Booklet

11540	Special Wing Details
12230	Approach Slabs

Sheet 20 (Revised 10-26-77)
Sheets 2, 4, 19, 99 & 100 (Revised 12-13-79)



Note: Lighting and Signalization Stage 2 will be constructed in a future contract.

Revised 8-19-77
Revised 9-28-77

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA

GOVERNING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 1977

LENGTH OF PROJECTS	17075-3408 LIN. FT	17075-3408 MILES	17008-3501 LIN. FT	17008-3501 MILES	TOTAL LIN. FT	TOTAL MILES
ROADWAY	10,120.72	1.917	1141.23	0.216	11,261.95	2.133
BRIDGES	215.49	0.040	0.00	0.000	215.49	0.040
NET LENGTH OF PROJECTS	10,336.21	1.957	1141.23	0.216	11,477.44	2.173
EXCEPTIONS	0.00	0.00	0.00	0.000	0.00	0.000
GROSS LENGTH OF PROJECTS	10,336.21	1.957	1141.23	0.216	11,477.44	2.173

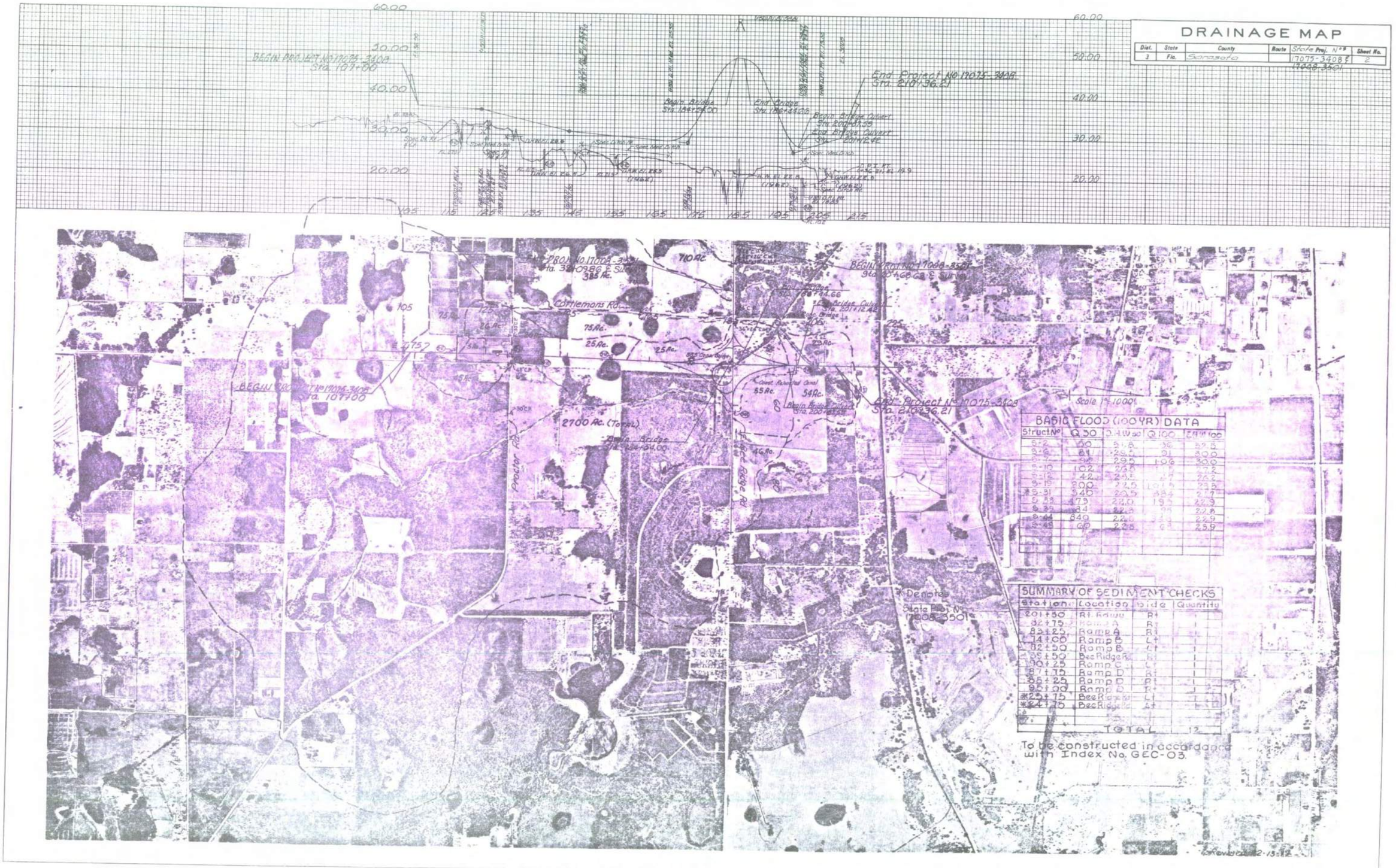
BRIDGE CLEARANCES

Proctor Rd. over S.B. I-75	*16.38'*
Proctor Rd. over N.B. I-75	*16.31'*
I-75 over Bee Ridge Rd. E.B.	*16.39'*
I-75 over Bee Ridge Rd. W.B.	*16.08'*

DIRECTOR OF ROAD OPER

DRAINAGE MAP

Dist.	State	County	Route	State Proj. No's	Sheet No.
1	Fla.	Sarasota		17075-3408 & 17008-3501	2



BASIC FLOOD (100 YR) DATA

Struct No	Q 50	D.H.W 50	Q 100	D.H.W 100
B-2	60	21.8	96	22.8
B-6	81	29.5	91	30.0
B-7	94	29.5	106	30.0
B-10	102	23.8		24.2
B-12	42	24.2	47	24.2
B-19	200	22.5	221	23.5
*B-31	340	22.5	384	24.7
B-38	479	22.0	195	22.9
B-39	84	22.8	95	22.8
B-44	640	22.0	723	22.9
B-48	68	22.8	81	23.9

SUMMARY OF SEDIMENT CHECKS

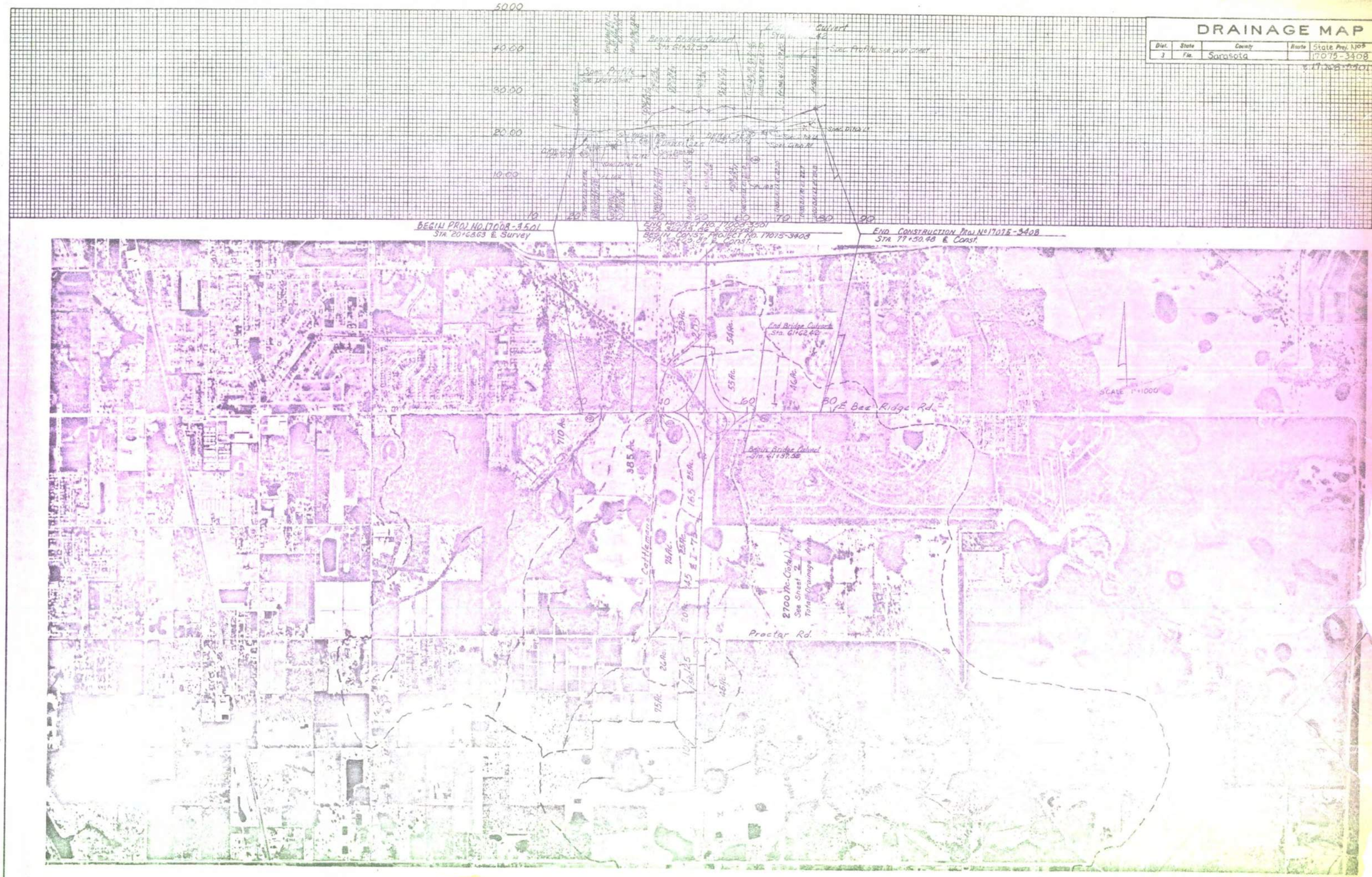
Station	Location	Side	Quantity
201+50	Rt. Relief	Rt	
82+75	Ramp A	Rt	
83+25	Ramp A	Rt	
74+00	Ramp B	Lt	
82+50	Ramp B	Lt	
88+50	Bee Ridge R.	Rt	
90+25	Ramp C	Lt	
87+75	Ramp D	Rt	
86+25	Ramp D	Rt	
95+00	Ramp D	Rt	
*25+75	Bee Ridge R.	Lt	
*24+75	Bee Ridge R.	Rt	
	TOTAL		12

To be constructed in accordance with Index No. GEC-03.

Drawn 2-13-12

DRAINAGE MAP

Dist.	State	County	Route	State Proj. No's	Sheet No.
3	Fla.	Sarasota		17075-3408	3
				& 17008-3501	



STATE PROJ. NO.	SHEET NO.
17075-3403	4
17008-3501	

Scale: 1"=100'

SUPPLEMENTAL DRAINAGE MAP
DETAIL OF INTERCHANGE
I-75 & BEE RIDGE RD.

Revised 12-13-77

FINAL PLANS
MAINTENANCE

STATE PROJECT NO. 17075-3409-414

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA	I-75-6(21)412	'77	1

B.I. 148660

THIS CONTRACT PLAN SET INCLUDES:
ROADWAY PLANS
SIGNING PLANS
SIGNALIZATION PLANS STAGE 1
STRUCTURE PLANS
A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH GROUP OF PLANS.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

~~PLANS OF PROPOSED~~

STATE HIGHWAY

A. PROJ. NO. I-75-6(21)412

SARASOTA COUNTY

STATE ROAD NO. 93

CONTRACTOR: WILEY N. JACKSON COMPANY
DISTRICT ENGINEER: C.W. MONTS DE OCA
RESIDENT ENGINEER: J.R. PINION
PROJECT ENGINEER: C.A. CREWS
DATE WORK STARTED: JUNE 16, 1978
DATE WORK COMPLETED: JAN. 31, 1981
DATE WORK ACCEPTED:

Note: Lighting and Signalization Stage 2 will be constructed in a future contract.

INDEX OF ROADWAY PLANS

INDEX NO.	STANDARD DRAWING
DGR-01-1	Guardrail Construction (5
BMD-01-1	Median Barrier Details (3
DMD-01-1	Miscellaneous Drainage D
DME-01	Mitered End Section (
DPS-01	Ditch Pavement & Sadding
DDI-01	Inlet-Type A
DDI-02	Inlet-Type B
DDI-03	Ditch Bottom Inlet-Types
DGI-01	Gutter Inlet-Type S
DSB-01	Inlet, Manhole, Junction Bo
DCE-01	Concrete Endwalls
DCE-03	U-Endwalls For Pipe Culver
DCE-04	Flared End Section for Pipe
DCE-06	Standard Endwall for 60"
DCE-09	Standard Endwall for 72"
FLD-01	Fence Location Details
FTA-01-2	Fence, Type A
FTB-01-2	Fence, Type B
GEC-01	Erosion Control Devices-T
GEC-01	Erosion Control Devices-S
GEC-04	Erosion Control Devices-
GEC-05	Erosion Control Devices-
GEU-01	Embankment Utilization D
GRC-01-1	Miscellaneous Roadway Co
GRT-01	Standard Details for Ramp T
GSA-01	Standard Abbreviations
GSE-01	Superelevation Details
GSS-01	Standard Symbols For Ke
GTO-01-1	Turnout Details
PCG-01	Curb, Curb and Gutter
PEJ-02	Bridge Approach Expansio
PJ - 01	Concrete Pavement Join
PMS-01	Median Storage Lanes
80[illegible]	Concrete Box Culvert
80[illegible]-Mod.	Concrete Box Culvert (2
80[illegible]-Mod.	Concrete Box Culvert (2
80[illegible]-Mod.	Concrete Box Culvert (2
80[illegible]	Concrete Box Culvert (2
80[illegible]	Concrete Box Culvert (2
116-00	Approach Slabs
116-01	Approach Slabs
116-02	Approach Slabs (2 Sheets)
122-77	Water Control Structure (2 Sheets)

NOTEBOOKS

NUMBER	DESCRIPTION
019461	BENCHMARKS
022415	McKOWN ROAD & MISC.
022827	SR 93 & 780 CROSS-SECTIONS
022831	DRAINAGE STR., ETC.
022858	EROSION CONTROL
022859	SEEDING AND MULCHING
022948	PILING BOOK (STR A, B & C)
023120	FINAL CROSS SECTIONS
023928	CONC, DITCH PAVT.
023967	REINF. STEEL STR.
024637	SLOPE PAVT.
025344	SODDING BOOK 3
025397	SODDING BOOK 4
025438	MISC BOOK 1
025439	SEEDING AND MULCHING
025440	MISC BOOK 2
025470	SODDING BOOK 2
025498	FINAL PROJ. CROSS SECTIONS
025501	MOWING
025543	FENCE
025545	SODDING BOOK 5
025564	SODDING BOOK 1

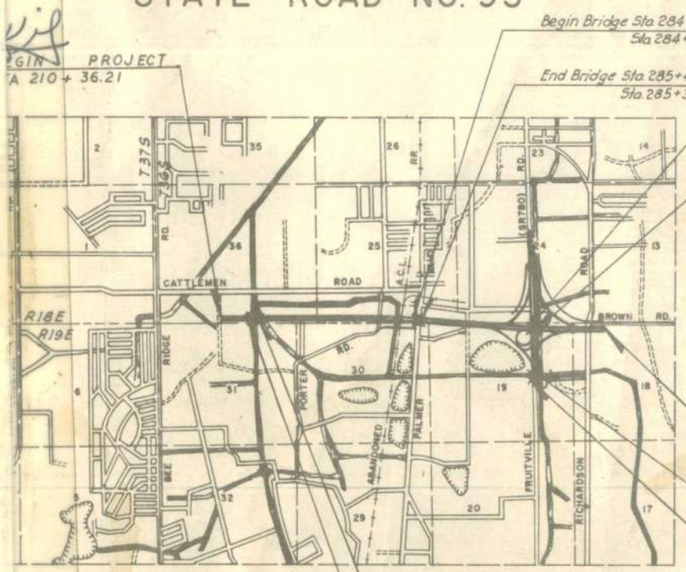
COMPUTER OUTPUT BOOKLETS

#2	BIT, MATERIAL
#3	BRIDGE QUANTITIES
#4	TOPSOIL, SEED & MULCH & COMM. MAT.
#5	AREA COMPUTATIONS
#7	EARTHWORK
#8	SODDING & MOWING
#9	CONC. DITCH PAVT.

SUBSOIL PLOTTS

REVISIONS:
SHEETS 223 THRU 227 ADDED TO PLANS FOR SUPPLEMENTAL AGREEMENT (REVISED 2/20/79)
Sheets 7, 11, 12, 31, 35, 66, 67, 117, 129, 187 and 190 thru 195 (Revised 4-17-79)
Sheets 2, 14, 74, 75, 76, 77 & 129 (Revised 12-13-79)

GOVERNING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS, DATED 1977
APPROVED BY FEDERAL HIGHWAY ADMINISTRATION-DATE



LENGTH OF PROJECT		
	LIN. FT.	MILES
ROADWAY	13,751.53	2.604
BRIDGES	553.82	0.105
NET LENGTH OF PROJECT	14,305.35	2.709
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	14,305.35	2.709

MINIMUM BRIDGE CLEARANCES

S.R. 780 Lt. Rdwy.	16.47'
S.R. 780 Rt. Rdwy.	16.21'
Palmer Road	16.27'

SUBMITTED BY
Jay W. Brooks
DIRECTOR OF ROAD OPERATIONS

BENHAM-BLAIR & AFFILIATES, INC.
CONSULTING ENGINEERS

ATTENTION IS DIRECTED TO THE FACT THA
THESE PLANS MAY HAVE BEEN REDUCED
SIZE BY REPRODUCTION. THIS MUST
CONSIDERED WHEN OBTAINING SCALED

APPROVED DATE
DIVISION ENGINEER
FEDERAL HIGHWAY ADMINISTRATIO

STATE JOB NO. 17075-3409

DRAINAGE MA

Dist.	State	County	Route	Proj.
3	Fla.	Sarasota		F-75-6(21)412

BASIC		FLOOD	DATA	
Str. No.	Q50	Q100	DHW50	EHW100
S-6	109 cfs	123 cfs	24	24.3
S-7	46 cfs	52 cfs	24	24.4
S-10	78 cfs	88 cfs	24	24.3
S-35	2200 cfs	2482 cfs	24	24.3
S-42	2200 cfs	2482 cfs	24.1	24.4
S-12	92 cfs	104 cfs	24	24.3
S-17	900 cfs	1015 cfs	24	24.5

Note: Hydraulic data is shown for informational purposes only based on conditions and judgements at the time of design. Especially in urban areas and small watersheds, the values shown are variable and highly dependent on anticedent conditions, rainfall intensity, land-use, and overland flow.

Scale: 1" = 400'

Exist. Conc. I Beam Bridge. 2-29.9 Spans
Conc. Piling. Exist open 900 sq. ft. Bottom
Beam Elevation 23.2 ft. = 6.0
Field H.W. 1934 El. 24.7

Cattlemen Road

Main "A"

Main "C"

DA = 7,900 Acs.

DA = 7,000 Acs.

DA = 14.3 Acs.

DA = 120 Acs.

DA = 62 Acs.

DA = 24 Acs.

DA 5.6 Acs.

DA = 28 Acs.

Begin Project.
Sta. 210 + 36.21

R.18 E.
R.19 E.

Porter Road

℄ Reloc. Porter Rd.

Exist. Conc. I Beam Bridge. Single 37.4' Span
Exist. opening 510 sq. ft. Bottom Beam
Elev. 23.8, ft. Elev. 9.7
High Water (1934) Elev. 25.2
(1962) Elev. 22.3

F.E.C.R.R. Abandoned

Blvd.

Packinghouse Road

Palmetto Rd.

Bell

Sarasota Rd.

24" C.P. ℓ 22.03

15" C.M.P. ℓ 22.72

18"-36" C.M.P. ℓ 22.35

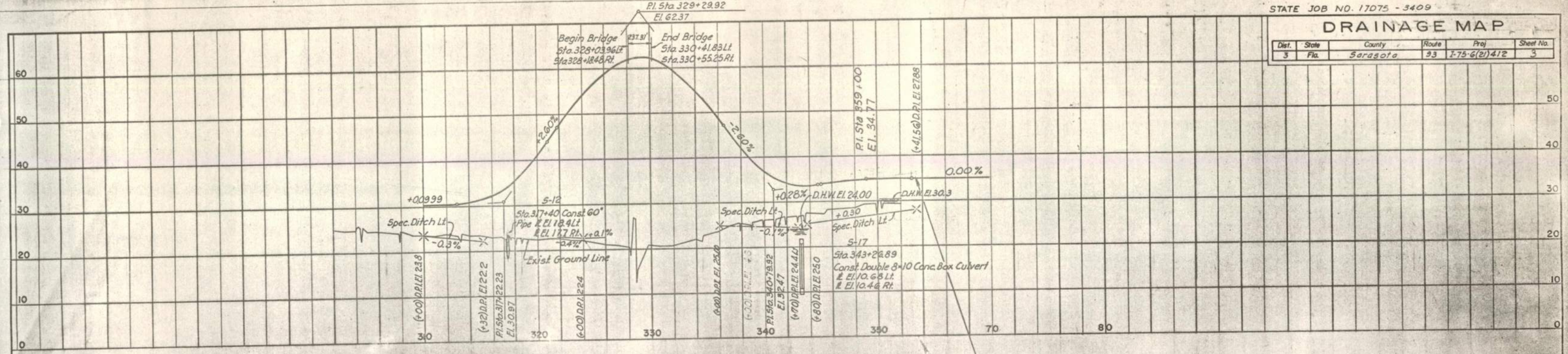
36" Conc.

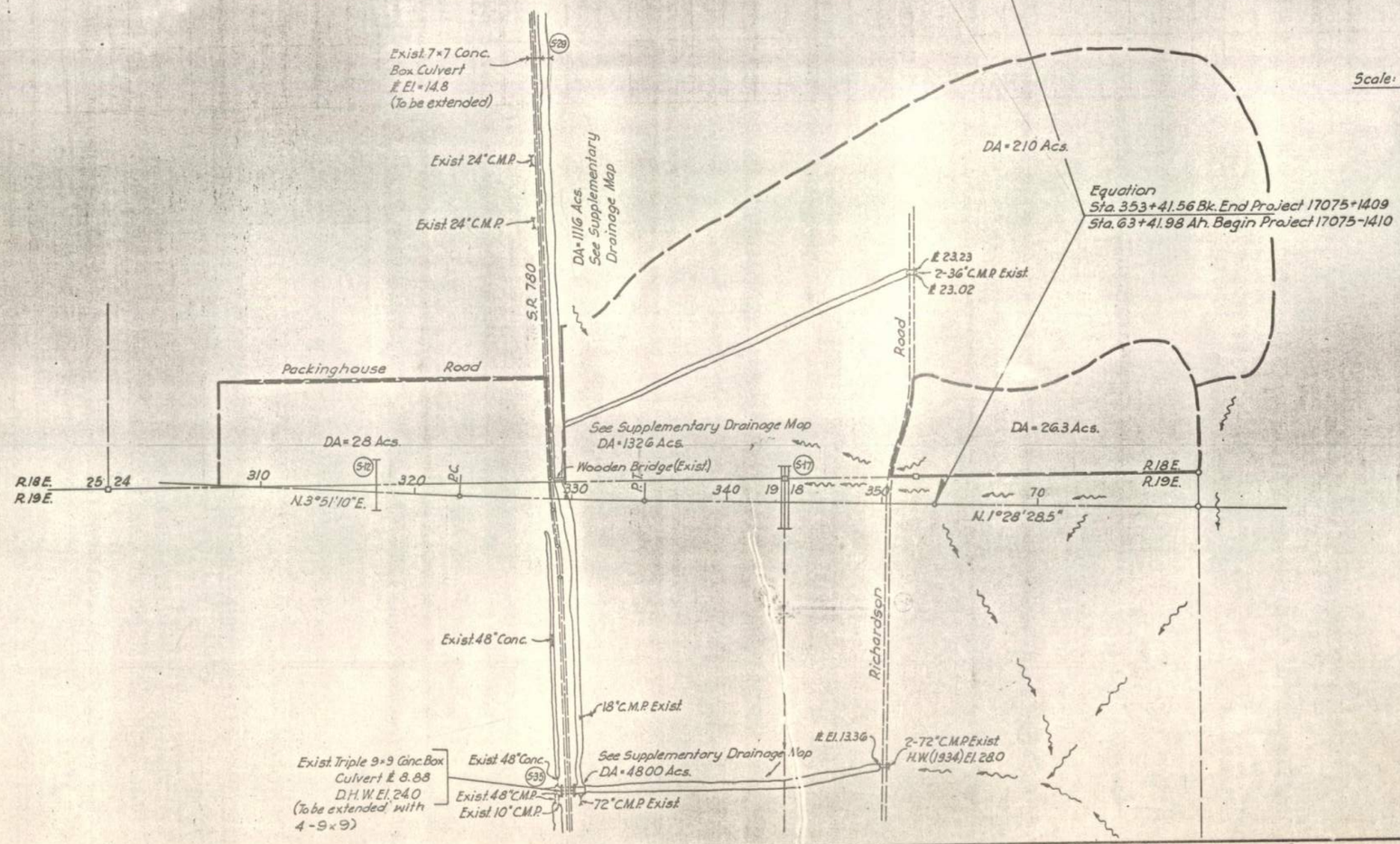
Revised 12-13-77

STATE JOB NO. 17075 - 3409

DRAINAGE MAP

Dist.	State	County	Route	Proj	Sheet No.
3	Fla.	Sarasota	93	I-75-6(21)412	3

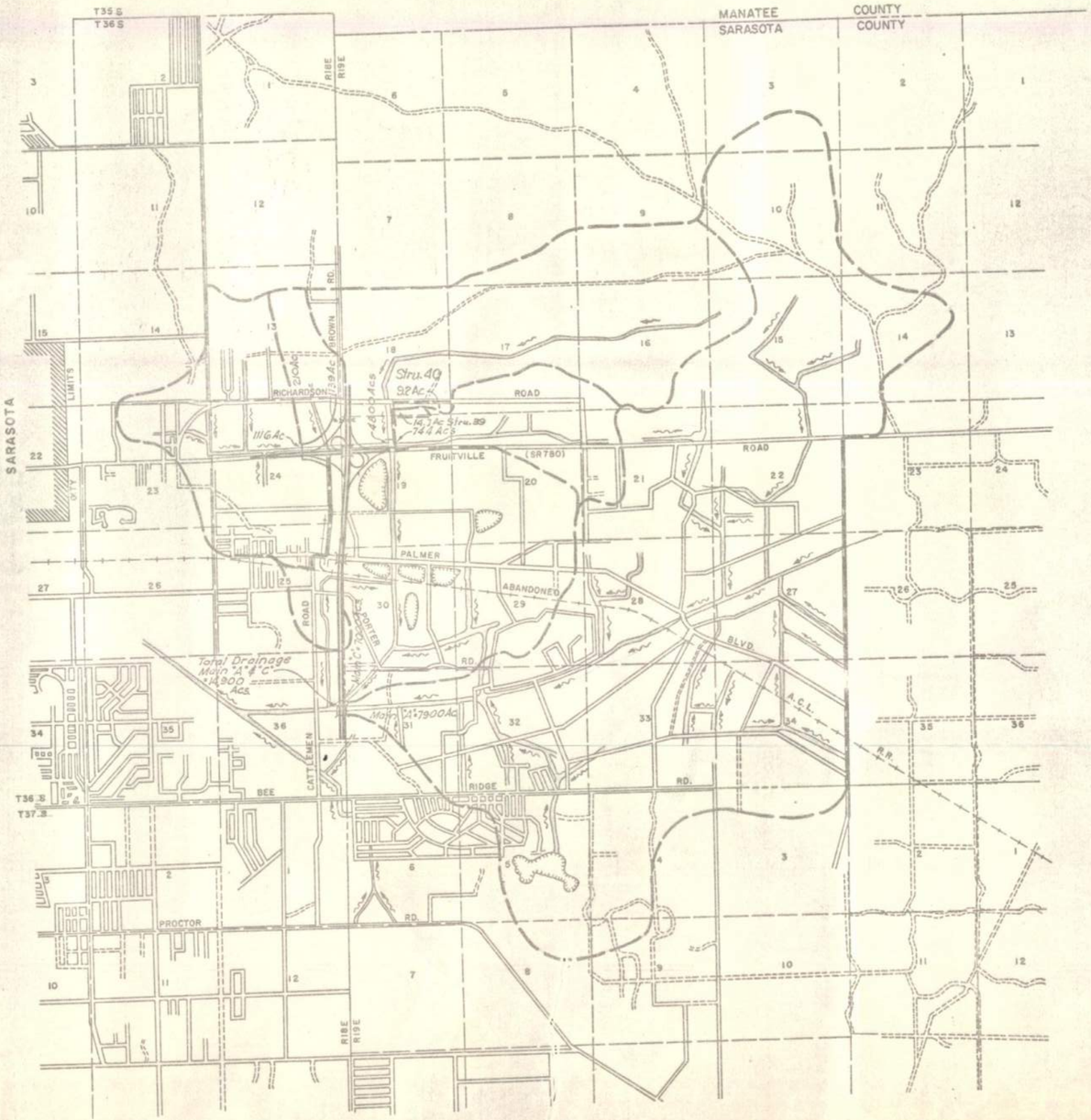




Scale: 1" = 400'

FED. ROAD DIV. No.	STATE	PROJECT No.	FISCAL YEAR	SHEET No.
3	Fla.	I-75-6(21)412		4

STATE JOB NO. 17075-3409

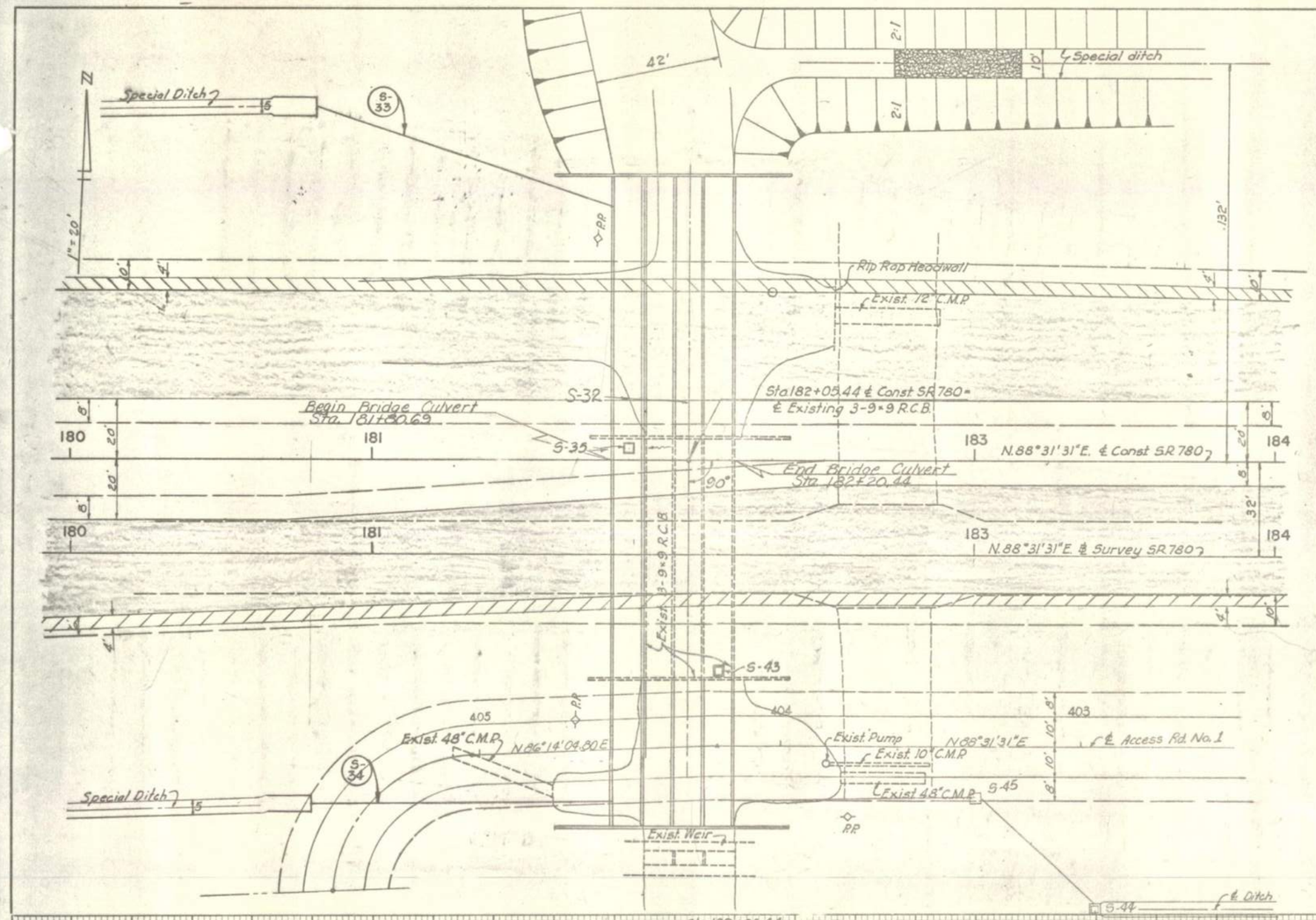


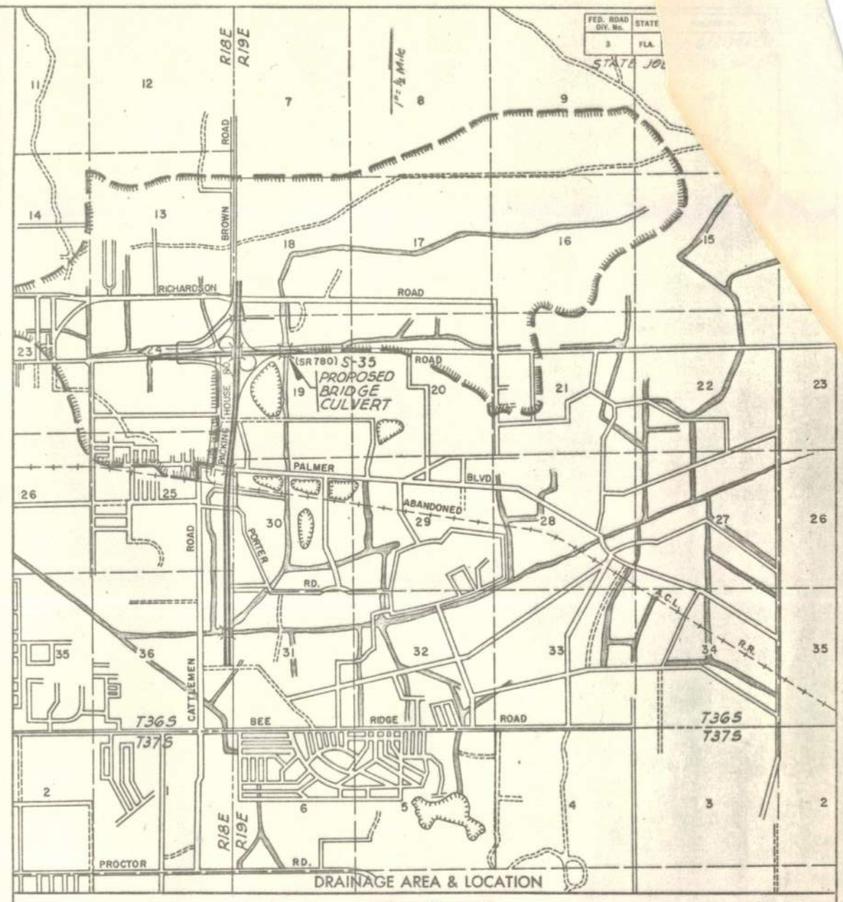
Scale: 1" = ½ Mile

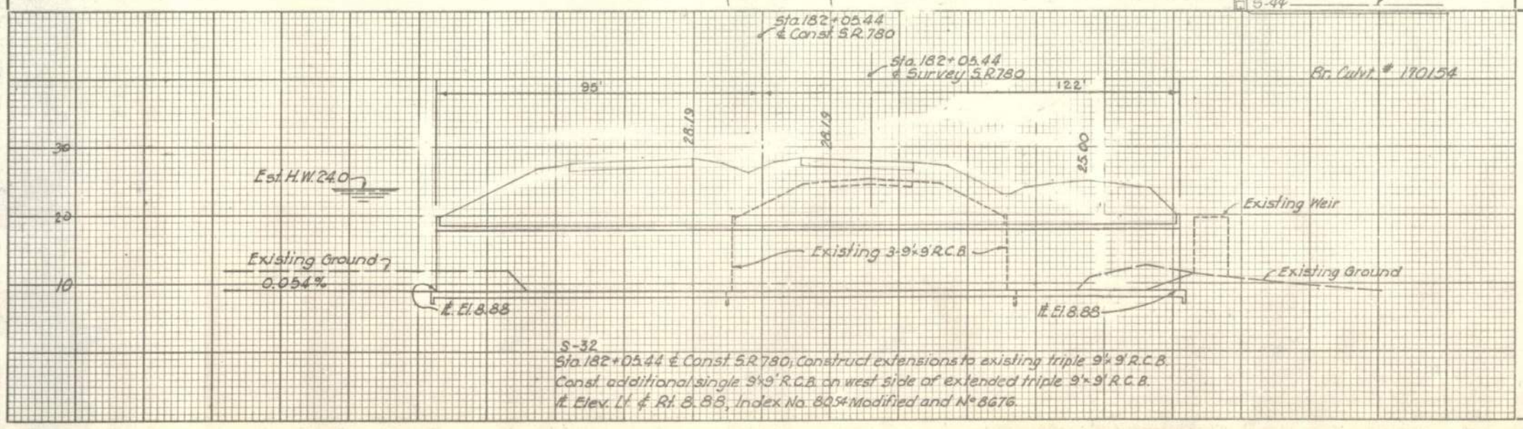
N

SUPPLEMENTARY DRAINAGE MAP

MAIN "A" & MAIN "C"







EXISTING STRUCTURES

(REFERENCE)	(1)	(2)	(3)	(4)	(5)
FOUNDATION					
OVERALL LENGTH					
SPAN LENGTH					
TYPE CONSTRUCTION					
SIDEWALKS					
ROADWAY WIDTH					
ELEV LOW MEMBER					

Quad 9x9

DESIGN DATA

STRUCTURE RECOMMENDATIONS
1. LOADING
2. BRIDGE ROADWAY WIDTH FT.
3. SIDEWALKS

DRAINAGE RECOMMENDATIONS
1. BEGIN BRIDGE STATION 181+79.86 END BRIDGE STATION 182+20.44
2. CENTERLINE GRADE ELEVATION 28.19
3. BRIDGE SKEW ANGLE 0°
4. CHANNEL BOTTOM, WIDTH 42' ELEVATION 8.88 SIDE SLOPES 2:1
   CENTERLINE CHANNEL BOTTOM, STATION
   LIMITS OF CHANNEL EXCAVATION RT. LT.
5. CLEARANCE: NAVIGATION: HORIZ. N/A DRIFT: HORIZ. N/A
   VERT. ABOVE EL. VERT. ABOVE EL.
6. DRAINAGE AREA 4.800 Acres
7. WATER STAGE DATA: MAX. STAGE OF RECORD DESIGN H.W. NORMAL HIGH WATER
   ELEVATION 20.7 24.0 13.5
   DATE OF OCCURRENCE 1934
   RECURRENCE INTERVAL 50 Yrs.
8. DESIGN DISCHARGE 2200 CFS SOURCE Rational Formula
   RECURRENCE INTERVAL 50 YEARS
9. DESIGN VELOCITY 6.8 FPS

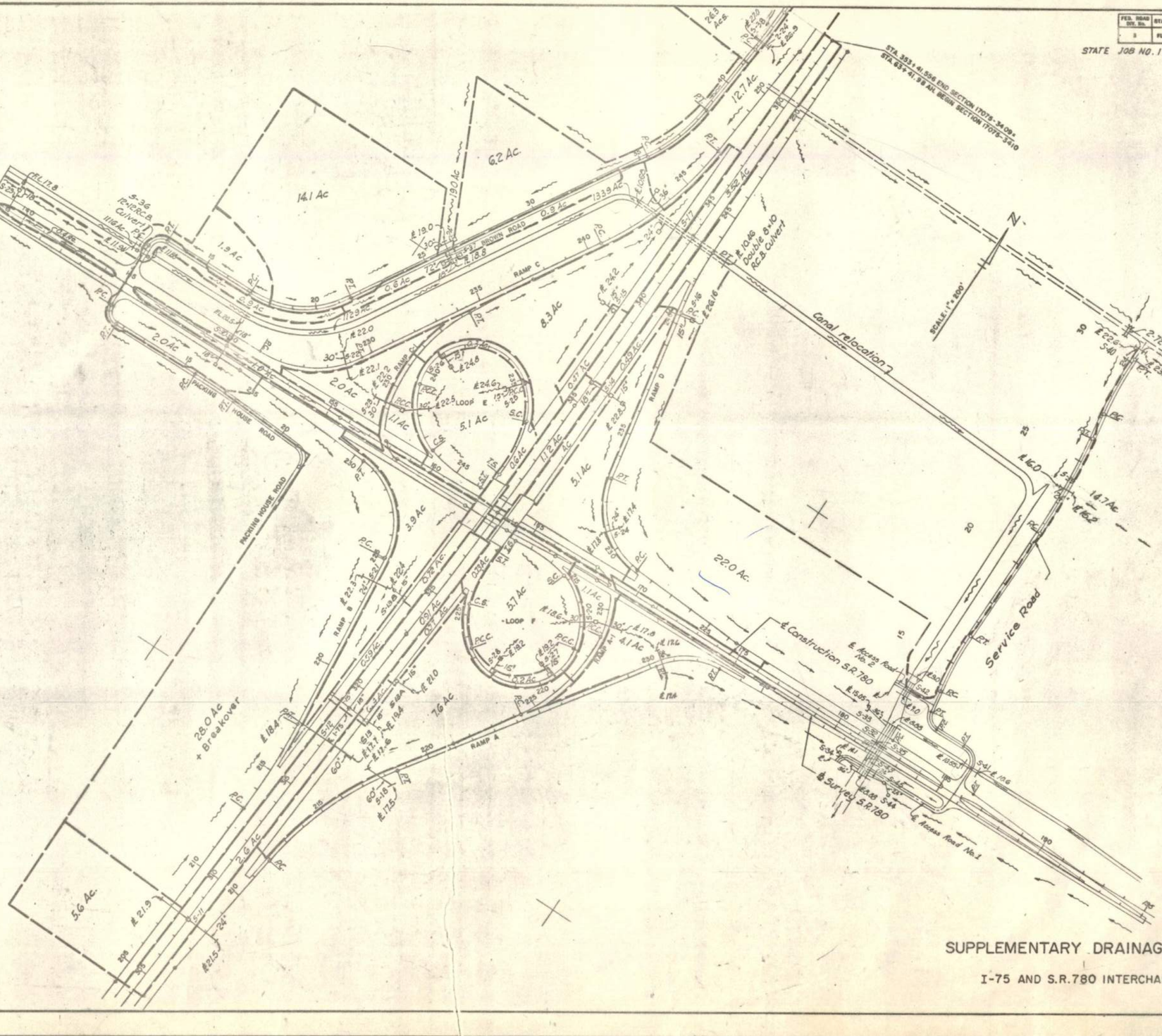
REMARKS:
Extend existing triple 9x9 R.C.B. both ends
Add additional barrel on west side of extended triple 9x9 R.C.B.

RECOMMENDED DISTRICT DR. ENGR.
APPROVED ENGINEER OF DRAINAGE

B... DESIGN DATA SHEET DD IB

FED. ROAD DIV. No.	STATE	PROJECT No.	FISCAL YEAR	SHEET No.
3	FLA.	I-75-6(21)412		6

STATE JOB NO. 17075 - 3409



SUPPLEMENTARY DRAINAGE MAP

I-75 AND S.R.780 INTERCHANGE

THIS PROJECT TO BE LET TO CONTRACT
WITH FINANCIAL PROJECT ID(S):
201277-3-56-01

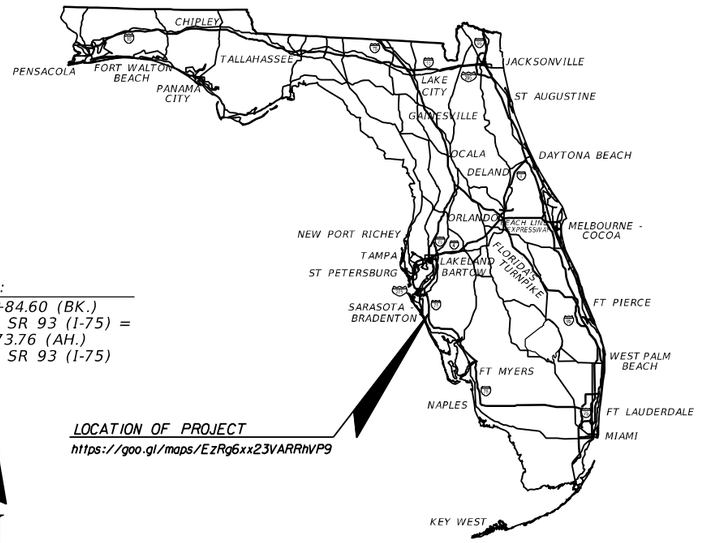
CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
INTELLIGENT TRANSPORTATION SYSTEMS PLANS
LIGHTING PLANS
STRUCTURES PLANS

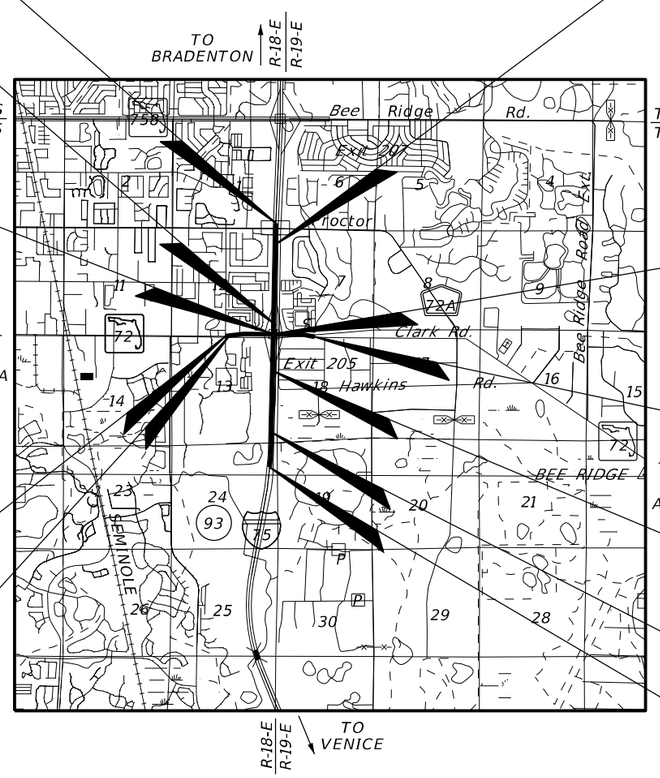
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 201277-3-52-01
(FEDERAL FUNDS)
SARASOTA COUNTY (17075)
STATE ROAD NO. 93 (I-75)



LOCATION OF PROJECT
https://goo.gl/maps/EzRg6xx23VARRhVP9



END CONSTRUCTION
STA. 147+00.00
℄ SURVEY SR 93 (I-75)
MP 35.708

END PROJECT
STA. 1929+81.78
℄ SURVEY SR 93 (I-75)
MP 34.874

END SB BRIDGE
STA. 1906+92.39
℄ SURVEY SR 93 (I-75)
#170085, MP 34.440

BEGIN SB BRIDGE
STA. 1904+50.89
℄ SURVEY SR 93 (I-75)
#170085, MP 34.395

BEGIN CONSTRUCTION
STA. 234+50.00
℄ SURVEY SR 72
MP 4.245

EQUATION:
STA. 239+40.91 (BK.)
℄ SURVEY SR 72 =
STA. 259+45.24 (AH.)
℄ SURVEY SR 72

EQUATION:
STA. 1954+84.60 (BK.)
℄ SURVEY SR 93 (I-75) =
STA. 127+73.76 (AH.)
℄ SURVEY SR 93 (I-75)

END NB BRIDGE
STA. 1906+93.61
℄ SURVEY SR 93 (I-75)
#170086, MP 34.440

BEGIN NB BRIDGE
STA. 1904+52.11
℄ SURVEY SR 93 (I-75)
#170086, MP 34.395

END CONSTRUCTION
STA. 309+50 ℄ SURVEY SR 72
MP 5.296

BEGIN PROJECT
STA. 1881+63.40
℄ SURVEY SR 93 (I-75)
MP 33.961

BEGIN ℄ SURVEY SR 93 (I-75)
STA. 1850+71.65 =
STA. 1853+12.28
℄ SURVEY SR 93 (I-75) LT.

BEGIN CONSTRUCTION
STA. 1827+00.00
℄ SURVEY SR 93 (I-75) LT.
MP 32.880

INDEX OF ROADWAY PLANS

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21-39	TYPICAL SECTION
40-45	TYPICAL SECTION DETAILS
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56-59	SUMMARY OF DRAINAGE STRUCTURES
60-61	OPTIONAL MATERIALS TABULATION
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71-96	ROADWAY PLAN
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121	TELEMETERED TRAFFIC MONITORING SITE
122	INTERCHANGE LAYOUT
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153-210	DRAINAGE STRUCTURES
211-221	DRAINAGE DETAIL
222-230	POND DETAIL
231-243	POND CROSS SECTIONS
244	CROSS SECTION PATTERN
245-284	CROSS SECTIONS SR 93 (I-75)
285-420	CROSS SECTIONS
421-423	DRIVEWAY HALF SECTIONS
424-426	STORMWATER POLLUTION PREVENTION PLAN
427-624	TEMPORARY TCP
625-636	UTILITY ADJUSTMENTS
SQ-1 - SQ-63	SUMMARY OF QUANTITIES
GR-1*	ROADWAY SOIL SURVEY
UTV-1 - UTV-7*	UTILITY ADJUSTMENTS FIELD VERIFIED UTILITIES

* This sheet is included in the Index of Roadway Plans only to indicate that it is part of the Roadway Plans. This sheet is contained in a separate digitally signed and sealed document.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2020-21 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2021 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

ROADWAY PLANS ENGINEER OF RECORD:

ERIK C. LESCHAK, P.E.
P.E. NO.: 63874
AMERICAN CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600
Contract No.: C9E10
Vendor No.: F043682340-001

FDOT PROJECT MANAGER:

JEFF MEDNICK

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T1783	21	1

ERIK C. LESCHAK
LICENSE
No 63874
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Erik C Leschak
2020.12.22
14:35:29 -05'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Erik C. Leschak, P.E. No. 63874

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3 - 8	SUMMARY OF PAY ITEMS
21 - 39	TYPICAL SECTION
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244	CROSS SECTION PATTERN
285 - 420	CROSS SECTIONS
421 - 423	DRIVEWAY HALF SECTIONS
625 - 636	UTILITY ADJUSTMENTS
SQ-1 - SQ-63	SUMMARY OF QUANTITIES

WILLIAM L. ADAMS
LICENSE
No 57950
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

William L Adams
2020.12.22 13:01:49
-05'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
William L. Adams, P.E. No. 57950

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
9 - 17	DRAINAGE MAP
18	INTERCHANGE DRAINAGE MAP
19 - 20	EXISTING DRAINAGE STRUCTURES
56 - 59	SUMMARY OF DRAINAGE STRUCTURES
60 - 61	OPTIONAL MATERIALS TABULATION
153 - 210	DRAINAGE STRUCTURES
211 - 221	DRAINAGE DETAIL
222 - 230	POND DETAIL
231 - 243	POND CROSS SECTIONS
424 - 426	STORMWATER POLLUTION PREVENTION PLAN

DEBORAH HERNANDEZ-CEDENO
LICENSE
No 74754
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

deborah hernandez cedeno
2020.12.22 11:20:57 -05'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record:Deborah Hernandez-Cedeno, P.E.
P.E. No.:74754

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
71 - 81	ROADWAY PLAN
245 - 284	CROSS SECTIONS SR 93 (I-75)

GORDON D. ZIECINA
LICENSE
No 33770
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Gordon D Ziecina
2020.12.22 09:18:21
-05'00'

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AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Gordon D. Ziecina, P.E. No. 33770

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
121	TELEMETERED TRAFFIC MONITORING SITE

DARREN P. BRANDES
LICENSE
No 53982
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Darren P Brandes
2020.12.22 10:28:04
-05'00'

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Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Darren P. Brandes, P.E.
P.E. No.: 53982

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
427 - 586	TEMPORARY TCP

M. FATHY ABDALLA
LICENSE
No 63914
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Mohamed F Abdalla
2020.12.22 12:20:06
-05'00'

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Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Darren P. Brandes, P.E.
P.E. No.: 63914

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
587 - 608	TEMPORARY TCP

JEFFREY S. NOVOTNY
LICENSE
No 51083
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Jeffrey S Novotny
2020.12.22
14:03:13 -05'00'

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AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Jeffrey S. Novotny, P.E. No. 51083

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
609 - 621	TEMPORARY TCP

RICHARD A. HUNTER
LICENSE
No 50601
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Richard A Hunter
2020.12.22
08:58:16 -05'00'

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AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Richard A. Hunter, P.E. No. 50601

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
622 - 624	TEMPORARY TCP

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Erik C. Leschak, P.E. No. 63874

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

SIGNATURE SHEET

SHEET NO. 2

USER: 5prycek 12/18/2020 6:18:19 PM c:\pw_work\american-pw-01\dms21683\SIGNRD01.DGN

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0001 SUMMARY OF ROADWAY

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0999-102- 1	SPEED & LAW ENFORCEMENT OFFICER, STATE FURNISHED, CENTRAL CONTRACT, NON BID ITEM	MH	1000.000		1000.000
		0101- 1-	MOBILIZATION 20127735201	LS	1.000		1.000
		0102- 1-	MAINTENANCE OF TRAFFIC 20127735201	(LS)	1.000		1.000
		0102- 2-200	SPECIAL DETOUR- TEMPORARY PAVEMENT 20127735201	(LS)	1.000		1.000
		0102- 2-300	SPECIAL DETOUR- TEMPORARY EARTHWORK/BASE 20127735201	(LS)	1.000		1.000
		0102- 3-	COMMERCIAL MATERIAL FOR TEMPORARY DRIVEWAY MAINTENANCE	CY	361.000		361.000
		0102- 4-	PEDESTRIAN SPECIAL DETOUR 20127735201	(LS)	1.000		1.000
		0102- 14-	TRAFFIC CONTROL OFFICER	HR	584.000		584.000
		0102- 30- 22	TEMPORARY HIGHWAY LIGHTING, PROJECT 201277-3-52-01	(LS)	1.000		1.000
		0102- 60-	WORK ZONE SIGN	ED	161832.000		161832.000
		0102- 61-	BUSINESS SIGN	EA	2.000		2.000
		0102- 62-	BARRIER MOUNTED WORK ZONE SIGN- INDEX 11871/700-013	ED	1700.000		1700.000
		0102- 71- 13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF	6915.000		6915.000
		0102- 71- 15	TEMPORARY BARRIER, F&I, ANCHORED	LF	7900.000		7900.000
		0102- 71- 16	TEMPORARY BARRIER, F&I, FREE STANDING	LF	13038.000		13038.000
		0102- 71- 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE CONCRETE	LF	12512.000		12512.000
		0102- 71- 25	TEMPORARY BARRIER, RELOCATE, ANCHORED	LF	10163.000		10163.000
		0102- 71- 26	TEMPORARY BARRIER, RELOCATE, FREE STANDING	LF	7663.000		7663.000
		0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	333225.000		333225.000
		0102- 74- 8	CHANNELIZING DEVICE- PEDESTRIAN LCD (LONGITUDINAL CHANNELIZING DEVICE)	FD	488370.000		488370.000
		0102- 75- 1	TEMPORARY SEPARATOR, F&I REMOVE	LF	3577.000		3577.000
		0102- 76-	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	778.000		778.000
		0102- 78-	TEMPORARY RAISED/RETROREFLECTIVE PAVEMENT MARKER	EA	20137.000		20137.000
		0102- 89- 1	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION	LO	17.000		17.000
		0102- 99-	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	2993.000		2993.000
		0102-104-	TEMPORARY SIGNALIZATION AND MAINTENANCE, INTERSECTION	ED	4000.000		4000.000
		0102-107- 1	TEMPORARY TRAFFIC DETECTION AND MAINTENANCE, INTERSECTION	ED	3760.000		3760.000
		0102-115-	TYPE III BARRICADE	ED	5022.000		5022.000
		0102-150- 1	PORTABLE REGULATORY, SIGN	ED	720.000		720.000
		0102-150- 2	RADAR SPEED DISPLAY UNIT	ED	720.000		720.000
		0104- 6-	TEMPORARY SLOPE DRAIN / RUNOFF CONTROL STRUCTURE	LF	35.000		35.000
		0107- 1-	LITTER REMOVAL	AC	3715.440 N		3715.440
		0107- 2-	MOWING	AC	2969.880 N		2969.880
P		0108- 1-	MONITOR EXISTING STRUCTURES- INSPECTION AND SETTLEMENT MONITORING 20127735201	LS	1.000		1.000
		0110- 1- 1	CLEARING & GRUBBING 20127735201	(LS)	1.000		1.000
		0110- 4- 10	REMOVAL OF EXISTING CONCRETE	SY	2570.000		2570.000
		0120- 1-	REGULAR EXCAVATION	CY	127629.200		127629.200
		0120- 4-	SUBSOIL EXCAVATION	CY	11070.600		11070.600
		0120- 6-	EMBANKMENT	CY	133232.700		133232.700

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FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0001 SUMMARY OF ROADWAY

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0160- 4-	TYPE B STABILIZATION	SY	197211.000		197211.000
		0285-701-	OPTIONAL BASE, BASE GROUP 01	SY	33929.000		33929.000
		0285-709-	OPTIONAL BASE, BASE GROUP 09	SY	81074.000		81074.000
		0285-711-	OPTIONAL BASE, BASE GROUP 11	SY	17462.000		17462.000
		0285-715-	OPTIONAL BASE, BASE GROUP 15	SY	8396.000		8396.000
		0327- 70- 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	SY	54494.000		54494.000
		0327- 70- 19	MILLING EXIST ASPH PAVT, 3/4" AVG DEPTH	SY	98009.000		98009.000
		0334- 1- 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	5617.600		5617.600
		0334- 1- 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	8731.700		8731.700
		0334- 1- 14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	TN	11442.500		11442.500
		0334- 1- 54	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC D, PG76-22	TN	1391.100		1391.100
		0337- 7- 25	ASPHALT CONCRETE FRICTION COURSE, INC BIT, FC-5, PG 76-22	TN	4731.100		4731.100
		0337- 7- 81	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-12.5, PG 76-22	TN	1439.500		1439.500
		0337- 7- 83	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, PG 76-22	TN	5360.100		5360.100
		0337- 7- 85	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC D, FC-12.5, PG 76-22	TN	3691.200		3691.200
		0339- 1-	MISCELLANEOUS ASPHALT PAVEMENT	TN	790.300		790.300
		0400- 0- 11	CONCRETE CLASS NS, GRAVITY WALL	CY	58.000		58.000
		0400- 4- 1	CONCRETE CLASS IV, CULVERTS	CY	1284.700		1284.700
		0400- 4- 11	CONC CLASS IV, RETAINING WALLS	CY	3163.700		3163.700
		0415- 1- 1	REINFORCING STEEL- ROADWAY	LB	264097.000		264097.000
		0415- 1- 3	REINFORCING STEEL- RETAINING WALL	LB	341293.000		341293.000
		0425- 1-351	INLETS, CURB, TYPE P-5, <10'	EA	28.000		28.000
		0425- 1-361	INLETS, CURB, TYPE P-6, <10'	EA	14.000		14.000
		0425- 1-451	INLETS, CURB, TYPE J-5, <10'	EA	2.000		2.000
		0425- 1-452	INLETS, CURB, TYPE J-5, >10'	EA	1.000		1.000
		0425- 1-471	INLETS, CURB, TYPE 7, <10'	EA	3.000		3.000
		0425- 1-521	INLETS, DT BOT, TYPE C,<10'	EA	5.000		5.000
		0425- 1-523	INLETS, DT BOT, TYPE C,JBOT, <10'	EA	1.000		1.000
		0425- 1-529	INLETS, DT BOT, TYPE C, MODIFY	EA	2.000		2.000
		0425- 1-541	INLETS, DT BOT, TYPE D, <10'	EA	10.000		10.000
		0425- 1-543	INLETS, DITCH BOTTOM, TYPE D, J BOT, <10'	EA	4.000		4.000
		0425- 1-549	INLETS, DT BOT, TYPE D, MODIFY	EA	4.000		4.000
		0425- 1-553	INLETS, DT BOT, TYPE E, J BOT, <10'	EA	2.000		2.000
		0425- 1-701	INLETS, GUTTER, TYPE S, <10'	EA	2.000		2.000
		0425- 1-910	INLETS, CLOSED FLUME	EA	16.000		16.000
		0425- 1-921	INLETS, ADJACENT BARRIER, <=10'	EA	8.000		8.000
		0425- 1-923	INLETS, ADJACENT BARRIER, J BOTTOM, < 10'	EA	11.000		11.000
		0425- 1-924	INLETS, ADJACENT BARRIER, J BOTTOM, >10'	EA	1.000		1.000
		0425- 2- 41	MANHOLES, P-7, <10'	EA	1.000		1.000

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Erik C. Leschak, P.E. No. 63874

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

SUMMARY OF PAY ITEMS (1)

SHEET NO. 3

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0001 SUMMARY OF ROADWAY

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0425- 2- 43	MANHOLES, P-7, PARTIAL	EA	6.000		6.000
		0425- 2- 61	MANHOLES, P-8, <10'	EA	15.000		15.000
		0425- 2- 62	MANHOLES, P-8, >10'	EA	2.000		2.000
		0425- 2- 63	MANHOLES, P-8, PARTIAL	EA	1.000		1.000
		0425- 2- 71	MANHOLES, J-7, <10'	EA	4.000		4.000
		0425- 2- 92	MANHOLES, J-8, >10'	EA	1.000		1.000
		0430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD	LF	125.000		125.000
		0430-174-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"SD	LF	33.000		33.000
		0430-175-115	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 15"S/CD	LF	105.000		105.000
		0430-175-118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	LF	6823.000		6823.000
		0430-175-124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	LF	2577.000		2577.000
		0430-175-130	PIPE CULVERT, OPT MATERIAL, ROUND, 30"S/CD	LF	3442.000		3442.000
		0430-175-136	PIPE CULVERT, OPT MATERIAL, ROUND, 36"S/CD	LF	451.000		451.000
		0430-175-142	PIPE CULVERT, OPT MATERIAL, ROUND, 42"S/CD	LF	23.000		23.000
		0430-185-130	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, JACK & BORE, 30", STORM AND CROSS DRAIN	LF	55.000		55.000
		0430-185-136	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, JACK & BORE, 36", STORM AND CROSS DRAIN	LF	794.000		794.000
		0430-185-142	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, JACK & BORE, 42", STORM AND CROSS DRAIN	LF	179.000		179.000
		0430-515-100	STRAIGHT CONCRETE ENDWALLS, 15", SINGLE, 0 DEGREES, ROUND	EA	1.000		1.000
		0430-963- 1	PVC PIPE FOR BACK OF SIDEWALK, 4"	LF	18.000		18.000
		0430-982-125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA	12.000		12.000
		0430-982-129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	EA	7.000		7.000
		0430-982-133	MITERED END SECTION, OPTIONAL ROUND, 30" CD	EA	2.000		2.000
		0430-982-138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	EA	1.000		1.000
		0430-982-140	MITERED END SECTION, OPTIONAL ROUND, 42" CD	EA	2.000		2.000
		0430-984-125	MITERED END SECTION, OPTIONAL ROUND, 18" SD	EA	2.000		2.000
		0430-984-129	MITERED END SECTION, OPTIONAL ROUND, 24" SD	EA	2.000		2.000
		0455- 35- 5	STEEL PILING, HP 14 X 73	LF	212.000		212.000
		0455- 35- 8	STEEL PILING, HP 14 X 117	LF	78.000		78.000
		0455- 35- 14	STEEL PILING, HP 16 X 141	LF	80.000		80.000
		0455-133- 2	SHEET PILING STEEL, TEMPORARY-CRITICAL	SF	43200.000		43200.000
		0470- 1-	TREATED TIMBER, STRUCTURAL	MB	0.800		0.800
		0515- 1- 1	PIPE HANDRAIL - GUIDERAIL, STEEL	LF	6.000		6.000
		0520- 1- 7	CONCRETE CURB & GUTTER, TYPE E	LF	5308.000		5308.000
		0520- 1- 10	CONCRETE CURB & GUTTER, TYPE F	LF	8723.000		8723.000
		0520- 5- 41	TRAFFIC SEPARATOR CONCRETE- TYPE IV, 4' WIDE	LF	236.000		236.000
		0520- 6-	SHOULDER GUTTER- CONCRETE	LF	389.000		389.000
P		0520- 70-	CONCRETE TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH	SY	96.000		96.000
		0521- 8- 4	CONCRETE TRAFFIC RAILING BARRIER, WITH JUNCTION SLAB, 42" VERTICAL FACE	LF	2017.000		2017.000

12/21/2020 09:26:05 AM

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0001 SUMMARY OF ROADWAY

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0521- 8- 7	CONCRETE BARRIER, WITH JUNCTION SLAB, 36" SINGLE SLOPE	LF	4719.000		4719.000
		0521- 72- 40	SHOULDER CONCRETE BARRIER, 38" OR 44" HEIGHT	LF	1068.000		1068.000
		0521- 72- 43	SHOULDER CONCRETE BARRIER, CURB AND GUTTER BARRIER	LF	686.000		686.000
		0521- 72- 44	SHOULDER CONCRETE BARRIER, 44" PIER PROTECTION BARRIER /CRASH WALL	LF	249.000		249.000
		0521- 72- 56	SHOULDER CONCRETE BARRIER, 56" PIER PROTECTION BARRIER /CRASH WALL	LF	753.000		753.000
		0522- 1-	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	3503.000		3503.000
		0522- 2-	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	1246.000		1246.000
		0524- 1- 1	CONCRETE DITCH PAVT, NON REINFORCED, 3"	SY	642.000		642.000
		0525- 1-	ASPHALTIC CONCRETE CURB- TO REMAIN	LF	1980.000		1980.000
		0527- 2-	DETECTABLE WARNINGS	SF	464.000		464.000
A		0530- 1-100	RIPRAP, SAND-CEMENT BAGS	CY	8.600		8.600
		0530- 3- 4	RIPRAP, RUBBLE, F&I, DITCH LINING	TN	24.000		24.000
		0530- 74-	BEDDING STONE	TN	17.300		17.300
		0534- 72-101	SOUND/NOISE BARRIER-INC FOUNDATION, PERMANENT	SF	274160.000		274160.000
		0536- 1- 1	GUARDRAIL -ROADWAY, GENERAL TL-3	LF	7687.000		7687.000
		0536- 1- 3	GUARDRAIL- ROADWAY, DOUBLE FACE	LF	5469.000		5469.000
		0536- 5- 1	RUB RAIL FOR GUARDRAIL, SINGLE SIDED RUB RAIL	LF	5469.000		5469.000
		0536- 8-112	GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, FURNISH AND INSTALL, NEW BRIDGE OR CONCRETE BARRIER, APPROACH TL-3	EA	12.000		12.000
		0536- 73-	GUARDRAIL REMOVAL	LF	9088.000		9088.000
		0536- 85- 20	GUARDRAIL END TREATMENT- TRAILING ANCHORAGE	EA	13.000		13.000
		0536- 85- 24	GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL	EA	18.000		18.000
		0550- 10-120	FENCING, TYPE A, 5.1-6.0, STANDARD	LF	2706.000		2706.000
		0570- 1- 1	PERFORMANCE TURF	SY	174649.000		174649.000
		0570- 1- 2	PERFORMANCE TURF, SOD	SY	77796.000		77796.000
		0570- 1- 3	PERFORMANCE TURF, SOD AND SOIL- SHOULDER TREATMENT INDEX 570-010	SY	6598.000		6598.000
		0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	163.000		163.000
		0635- 2- 11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	4.000		4.000
		0641- 2- 60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL /SERVICE POLE	EA	1.000		1.000
		0646- 2-120	ALUMINUM POLE- INDEX 17900/695-001, FURNISH & INSTALL, 20'	EA	2.000		2.000
		0695- 1- 1	TRAFFIC MONITORING SITE VEHICLE SENSOR-NON-WEIGHT, FURNISH & INSTALL	EA	8.000		8.000
		0695- 5- 1	TRAFFIC MONITORING SITE SOLAR POWER UNIT, FURNISH & INSTALL	EA	2.000		2.000
		0695- 6- 12	TRAFFIC MONITORING SITE INDUCTIVE LOOP ASSEMBLY, FURNISH & INSTALL, 2 LOOPS	EA	8.000		8.000
		0695- 7-173	TRAFFIC MONITORING SITE CABINET, FURNISH & INSTALL, TYPE 4, 2 PLANE BACK, POLEMOUNT	EA	2.000		2.000
		0695- 7-600	TRAFFIC MONITORING SITE CABINET, REMOVE EXISTING CABINET	EA	1.000		1.000
		0710- 11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	75.378		75.378

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Erik C. Leschak, P.E. No. 63874

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

SUMMARY OF PAY ITEMS (2)

SHEET NO. 4

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0001 SUMMARY OF ROADWAY

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0710- 11-102	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR INTERCHANGE AND URBAN ISLAND, 8"	GM	0.690		0.690
		0710- 11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	18743.000		18743.000
		0710- 11-124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	6018.000		6018.000
		0710- 11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	4291.000		4291.000
		0710- 11-131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	33.385		33.385
		0710- 11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXTENSION, 6"	GM	4.368		4.368
		0710- 11-160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	174.000		174.000
		0710- 11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	480.000		480.000
		0710- 11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	39.839		39.839
		0710- 11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	605.000		605.000
		0710- 11-241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	GM	1.457		1.457
		0999- 16-	PARTNERING, DO NOT BID 20127735201	LS	1.000		1.000
		0999- 20- 1	DISPUTES REVIEW BOARD, MEETING- DO NOT BID	DA	34.000		34.000
		0999- 20- 2	DISPUTES REVIEW BOARD, HEARING- DO NOT BID	EA	2.000		2.000
		0999- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID 20127735201	LS	1.000 N		1.000

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FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0002 SUMMARY OF SIGNING

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0700- 1- 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	52.000		52.000
		0700- 1- 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	20.000		20.000
		0700- 1- 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	AS	16.000		16.000
		0700- 1- 21	SINGLE POST SIGN, F&I BARRIER MOUNT INDEX 11871/700-013 UP TO 12 SF	AS	5.000		5.000
		0700- 1- 22	SINGLE POST SIGN, F&I BARRIER MOUNT INDEX 11871/700-013, 12-20 SF	AS	2.000		2.000
		0700- 1- 50	SINGLE POST SIGN, RELOCATE	AS	1.000		1.000
		0700- 1- 60	SINGLE POST SIGN, REMOVE	AS	78.000		78.000
		0700- 2- 13	MULTI- POST SIGN, F&I GROUND MOUNT, 21-30 SF	AS	2.000		2.000
		0700- 2- 14	MULTI- POST SIGN, F&I GROUND MOUNT, 31-50 SF	AS	7.000		7.000
		0700- 2- 16	MULTI- POST SIGN, F&I GROUND MOUNT, 101-200 SF	AS	2.000		2.000
		0700- 2- 17	MULTI- POST SIGN, F&I GROUND MOUNT, 201-300 SF	AS	1.000		1.000
		0700- 2- 50	MULTI- POST SIGN, GROUND MOUNT, RELOCATE	AS	17.000		17.000
		0700- 2- 60	MULTI- POST SIGN, REMOVE	AS	16.000		16.000
		0700- 3-206	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 101-200 SF	EA	5.000		5.000
		0700- 3-207	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 201-300 SF	EA	8.000		8.000
		0700- 3-209	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 401-500 SF	EA	3.000		3.000
		0700- 3-210	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 501-600 SF	EA	3.000		3.000
		0700- 3-211	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 601 SF AND GREATER	EA	2.000		2.000
		0700- 3-626	SIGN PANEL, REMOVE, 101-200 SF WITH LIGHTING	EA	5.000		5.000
		0700- 3-627	SIGN PANEL, REMOVE PANEL, 201-300 SF WITH LIGHTING	EA	1.000		1.000
		0700- 4-112	OVERHEAD STATIC SIGN STRUCTURE, FURNISH & INSTALL, CANTILEVER, 21-30 FT	EA	4.000		4.000
		0700- 4-113	OVERHEAD STATIC SIGN STRUCTURE, FURNISH & INSTALL, CANTILEVER, 31-40 FT	EA	2.000		2.000
		0700- 4-126	OVERHEAD STATIC SIGN STRUCTURE, FURNISH & INSTALL, SPAN, 101-150 FT	EA	9.000		9.000
		0700- 4-127	OVERHEAD STATIC SIGN STRUCTURE, FURNISH & INSTALL, SPAN, 151-200 FT	EA	2.000		2.000
		0700- 4-610	OVERHEAD STATIC SIGN STRUCTURE, REMOVE CANTILEVER	EA	1.000		1.000
		0700- 4-620	OVERHEAD STATIC SIGN STRUCTURE, REMOVE SPAN	EA	1.000		1.000
		0700- 4-640	OVERHEAD STATIC SIGN STRUCTURE, REMOVE BRIDGE MOUNT	EA	2.000		2.000
		0705- 10- 1	OBJECT MARKER, TYPE 1	EA	1.000		1.000
		0705- 10- 3	OBJECT MARKER, TYPE 3	EA	4.000		4.000
		0705- 11- 1	DELINEATOR, FLEXIBLE TUBULAR	EA	5.000		5.000
		0710- 90-	PAINTED PAVEMENT MARKINGS, FINAL SURFACE 20127735201	LS	1.000		1.000
		0711- 11-103	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR INTERCHANGE MARKINGS	GM	1.070		1.070
		0711- 11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	3555.000		3555.000
		0711- 11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	1073.000		1073.000

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Erik C. Leschak, P.E. No. 63874

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

SUMMARY OF PAY ITEMS (3)

SHEET NO. 5

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0002 SUMMARY OF SIGNING

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0711- 11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	1486.000		1486.000
		0711- 11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	1.256		1.256
		0711- 11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	41.000		41.000
		0711- 11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	218.000		218.000
		0711- 11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	966.000		966.000
		0711- 11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM	0.133		0.133
		0711- 14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	1858.000		1858.000
		0711- 14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	24.000		24.000
		0711- 14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	22.000		22.000
		0711- 14-660	THERMOPLASTIC, PREFORMED, MULTI COLOR ROUTE SHIELD	EA	21.000		21.000
		0711- 15-101	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES WHITE, SOLID, 6"	GM	8.099		8.099
		0711- 15-102	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, WHITE , SOLID, 8"	GM	0.016		0.016
		0711- 15-131	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, WHITE , SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	12.119		12.119
		0711- 15-201	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, YELLOW, SOLID, 6"	GM	6.114		6.114
		0711- 16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	6.391		6.391
		0711- 16-102	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 8"	GM	0.380		0.380
		0711- 16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6" ,10-30 SKIP OR 3-9 LANE DROP	GM	3.160		3.160
		0711- 16-133	THERMOPLASTIC, STANDARD-OTHER SURFACES WHITE, SKIP, 12"- APPROACH TO TOLL PLAZA OR 3-9 LANE DROP	GM	0.053		0.053
		0711- 16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	2.230		2.230
		0711- 16-202	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 8"	GM	0.282		0.282
		0713-103-101	PERMANENT TAPE, WHITE, SOLID, 6" FOR CONCRETE BRIDGES	GM	0.107		0.107
		0713-103-201	PERMANENT TAPE, YELLOW, SOLID, 6" FOR CONCRETE BRIDGES	GM	0.107		0.107
		0713-103-331	PERMANENT TAPE, BLACK, SKIP/DOTTED, 6" FOR CONCRETE SURFACES	GM	0.212		0.212
		0920-714- 6	GREEN COLORED PAVEMENT MARKINGS, BIKE LANE, PROJECT 201277-3-52-01	SF	3197.000		3197.000

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FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0003 SUMMARY OF LIGHTING

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	26287.000		26287.000
		0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	2668.000		2668.000
		0630- 2- 14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	509.000		509.000
		0630- 2- 16	CONDUIT, FURNISH & INSTALL, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	LF	5317.000		5317.000
		0635- 2- 11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	236.000		236.000
		0635- 3- 13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	EA	54.000		54.000
		0639- 1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	4.000		4.000
		0639- 3- 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1.000		1.000
		0715- 1- 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	79109.000		79109.000
		0715- 1- 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	LF	69135.000		69135.000
		0715- 1- 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	1380.000		1380.000
		0715- 4- 12	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 35' MOUNTING HEIGHT	EA	6.000		6.000
		0715- 4- 13	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 40' MOUNTING HEIGHT	EA	59.000		59.000
		0715- 4- 14	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 45' MOUNTING HEIGHT	EA	46.000		46.000
		0715- 4- 15	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 50' MOUNTING HEIGHT	EA	72.000		72.000
P		0715- 4- 23	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE SPECIAL FOUNDATION, 40' MOUNTING HEIGHT	EA	8.000		8.000
		0715- 4- 70	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA	19.000		19.000
P		0715- 4-827	LIGHT POLE COMPLETE, FURNISH & INSTALL UTILITY CONFLICT POLE, INDEX 715-002 FOUND, 40' HT, PROJECT 201277-3-52-01	EA	1.000		1.000
P		0715- 4-828	LIGHT POLE COMPLETE, FURNISH & INSTALL UTILITY CONFLICT POLE, SPECIAL FOUND, 40' HT, PROJECT 201277-3-52-01	EA	2.000		2.000
		0715- 7- 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	4.000		4.000
		0715- 11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA	8.000		8.000
		0715- 11-211	LUMINAIRE, F&I- REPLACE EXISTING LUMINAIRE ON EXISTING POLE /ARM, ROADWAY, COBRA HEAD	EA	1.000		1.000
		0715- 11-500	LUMINAIRE, REMOVE	EA	4.000		4.000
		0715- 19- 60	HIGH MAST LIGHT POLE, REMOVE POLE AND FOUNDATION	EA	12.000		12.000
		0715-500- 1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	164.000		164.000
		0715-500- 3	POLE CABLE DISTRIBUTION SYSTEM, WALL MOUNT	EA	30.000		30.000

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Erik C. Leschak, P.E. No. 63874

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

SUMMARY OF PAY ITEMS (4)

SHEET NO. 6

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0004 SUMMARY OF SIGNALIZATION

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	6766.000		6766.000
		0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	2955.000		2955.000
		0632- 7- 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	P1	4.000		4.000
P		0632- 7- 6	SIGNAL CABLE, REMOVE- INTERSECTION	P1	4.000		4.000
		0633- 1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF	60.000		60.000
		0633- 1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND,49-96 FIBERS	LF	5467.000		5467.000
		0633- 1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	161.000		161.000
		0633- 2- 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	206.000		206.000
		0633- 3- 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	5.000		5.000
		0633- 3- 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	19.000		19.000
		0633- 3- 15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA	3.000		3.000
		0635- 2- 11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	146.000		146.000
		0635- 2- 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	15.000		15.000
		0635- 2- 13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA	4.000		4.000
		0639- 1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	3.000		3.000
		0639- 2- 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	937.000		937.000
		0639- 3- 60	ELECTRICAL SERVICE DISCONNECT, REMOVE- POLE OR CABINET TO REMAIN	EA	3.000		3.000
		0641- 2- 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	2.000		2.000
		0646- 1- 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	33.000		33.000
		0646- 1- 60	ALUMINUM SIGNALS POLE, REMOVE	EA	3.000		3.000
		0646- 2-115	ALUMINUM POLE- INDEX 17900/695-001, FURNISH & INSTALL, 15'	EA	5.000		5.000
		0649- 21- 3	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA	3.000		3.000
		0649- 21- 6	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50'	EA	4.000		4.000
		0649- 21- 10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA	3.000		3.000
		0649- 21- 15	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA	5.000		5.000
		0649- 21- 19	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, DOUBLE ARM 70'-60'	EA	1.000		1.000
		0649- 26- 3	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW FOUNDATION- BOLT ON ATTACHMENT	EA	10.000		10.000
		0650- 1- 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	59.000		59.000
		0650- 1- 19	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS	5.000		5.000
		0653- 1- 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	34.000		34.000
		0660- 3- 11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	4.000		4.000

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FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0004 SUMMARY OF SIGNALIZATION

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0660- 3- 12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	22.000		22.000
P		0660- 4- 51	VEHICLE DETECTION SYSTEM- VIDEO, ADJUST/MODIFY CABINET EQUIPMENT	EA	1.000		1.000
P		0660- 4- 52	VEHICLE DETECTION SYSTEM- VIDEO, ADJUST/MODIFY ABOVE GROUND EQUIPMENT	EA	1.000		1.000
P		0663- 1-121	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL , GPS, REPLACE CABINET ELECTRONICS	EA	3.000		3.000
P		0663- 1-122	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL , GPS, DETECTOR	EA	3.000		3.000
		0665- 1- 12	PEDESTRIAN DETECTOR, FURNISH & INSTALL, ACCESSIBLE	EA	34.000		34.000
		0670- 5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS	3.000		3.000
P		0670- 5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	1.000		1.000
		0670- 5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	3.000		3.000
		0682- 1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP , HIGH DEFINITION	EA	2.000		2.000
		0684- 1- 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	3.000		3.000
		0685- 1- 11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA	3.000		3.000
		0700- 3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	22.000		22.000
		0700- 3-202	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 12-20 SF	EA	2.000		2.000
		0700- 5- 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	8.000		8.000
		0715- 1- 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF	1512.000		1512.000
		0715- 1- 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	150.000		150.000
		0715- 5- 31	LUMINAIRE & BRACKET ARM- ALUMINUM, FURNISH & INSTALL NEW LUMINAIRE AND ARM ON NEW/EXISTING POLE	EA	5.000		5.000

REVISIONS			
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AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Erik C. Leschak, P.E. No. 63874

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

SUMMARY OF PAY ITEMS (5)

SHEET NO. 7

12/21/2020 09:26:05 AM

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0006 SUMMARY OF INTELLIGENT TRANSPORTATION SYSTEM

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	9110.000		9110.000
		0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	2837.000		2837.000
		0630- 2- 14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	50.000		50.000
		0633- 1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF	3161.000		3161.000
		0633- 1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND,49-96 FIBERS	LF	21686.000		21686.000
		0633- 1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	13425.000		13425.000
		0633- 2- 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	256.000		256.000
		0633- 3- 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	2.000		2.000
		0633- 3- 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	17.000		17.000
		0633- 3- 13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA	96.000		96.000
		0633- 3- 14	FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA	1.000		1.000
		0633- 3- 16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA	8.000		8.000
		0633- 3- 17	FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA	1.000		1.000
		0633- 3- 51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA	11.000		11.000
T		0633- 8- 1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF	1185.000		1185.000
		0635- 2- 11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	26.000		26.000
		0635- 2- 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	7.000		7.000
		0635- 2- 13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA	2.000		2.000
		0639- 2- 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	31426.000		31426.000
		0639- 3- 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	6.000		6.000
T		0639- 6- 1	ELECTRICAL POWER SERVICE- TRANSFORMER FURNISH & INSTALL	EA	8.000		8.000
		0641- 2- 11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL	EA	2.000		2.000
		0641- 2- 14	PRESTRESSED CONCRETE POLE, F&I, TYPE P-IV	EA	4.000		4.000
		0641- 2- 80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER	EA	1.000		1.000
		0641- 3-163	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE , 63'	EA	1.000		1.000
		0641- 3-186	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE , 86'	EA	1.000		1.000
		0641- 3-800	CONCRETE CCTV POLE, COMPLETE POLE REMOVAL	EA	2.000		2.000
		0660- 3- 11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	3.000		3.000
		0660- 3- 12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	4.000		4.000
		0660- 3- 60	VEHICLE DETECTION SYSTEM - MICROWAVE, REMOVE, COMPLETE SYSTEM	EA	1.000		1.000
		0660- 7- 12	VEHICLE DETECTION SYSTEM- WRONG WAY FOR EXIT RAMP, 3 OR MORE LANES	EA	2.000		2.000
		0676- 2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA	8.000		8.000

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FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0005 SUMMARY OF UTILITIES

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0400- 0- 11	CONCRETE CLASS NS, GRAVITY WALL	CY		15.000	15.000
		0522- 1-	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY		74.000	74.000
		0999- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID 20127735601	LS		1.000 N	1.000
T		1050- 16-004	UTILITY PIPE,REMOVE & DISPOSE, 8-19.9"	LF		5505.000	5505.000
T		1050- 31-208	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER /SEWER, 8"	LF		10.000	10.000
T		1050- 31-212	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER /SEWER, 12"	LF		85.000	85.000
T		1050- 31-216	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER /SEWER, 16"	LF		1642.000	1642.000
T		1050- 51-212	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 12"	LF		90.000	90.000
T		1050- 61-130	UTILITY PIPE- STEEL, FURNISH & INSTALL, CASING, 30"	LF		818.000	818.000
T		1055- 51-108	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL ELBOW, 8"	EA		2.000	2.000
T		1055- 51-112	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL ELBOW, 12"	EA		12.000	12.000
T		1055- 51-116	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL ELBOW, 16"	EA		12.000	12.000
T		1055- 51-416	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL UNION, 16"	EA		8.000	8.000
T		1055- 51-516	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL , CAP/PLUG, 16"	EA		2.000	2.000
T		1080- 24-108	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 8"	EA		1.000	1.000
T		1080- 24-116	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 16"	EA		2.000	2.000
T		1080- 27-116	UTILITY FIXTURE- LINE STOP ASSEMBLY, FURNISH AND INSTALL, 16"	EA		4.000	4.000

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FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1783

LEAD PROJECT : 201277-3-52-01 | DISTRICT : 01 | COUNTY/SECTION : 17075000

PROJECT(S) : 20127735201, 20127735601 | COUNTY : SARASOTA

0006 SUMMARY OF INTELLIGENT TRANSPORTATION SYSTEM

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	20127735201	20127735601	QUANTITY TOTAL
		0676- 2-600	ITS CABINET- REMOVE	EA	1.000		1.000
		0682- 1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP , HIGH DEFINITION	EA	2.000		2.000
		0684- 1- 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	7.000		7.000
		0684- 5- 1	MEDIA CONVERTER, FURNISH & INSTALL	EA	3.000		3.000
		0685- 1- 11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA	6.000		6.000
		0700- 1- 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	4.000		4.000
		0700- 6- 11	HIGHLIGHTED SIGN, F&I GROUND MOUNT- AC POWERED, UP TO 12 SF	AS	14.000		14.000
A		0700- 13- 12	RETROREFLECTIVE SIGN STRIP- FURNISH AND INSTALL, 2'	EA	8.000		8.000
A		0700- 13- 15	RETROREFLECTIVE SIGN STRIP- FURNISH AND INSTALL, 5'	EA	4.000		4.000

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Erik C. Leschak, P.E. No. 63874

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

SUMMARY OF PAY ITEMS (6)

SHEET NO. 8

Scale: 1" = 200' Horiz.
1" = 20' Vert.
Datum: NGVD 1929

END ℄ SURVEY SR 93 (I-75) RT.
STA. 1850+71.65 =
STA. 1850+71.65, 44.00' RT.
℄ SURVEY SR 93 (I-75)

Existing Profile Northbound EOP RT.

CD-3

50 YR DHW 20.96

CD-3B
Exist (2) 6'X6' Box Culvert

25.56

30.31

60
40
20
0

1840 1845 1850 1855 1860

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BEGIN CONSTRUCTION
STA. 1827+00.00 ℄ SURVEY SR 93 (I-75) LT.

BEGIN ℄ SURVEY SR 93 (I-75)
STA. 1850+71.65=
STA. 1853+12.28, 45.23' LT.
℄ SURVEY SR 93 (I-75) LT.

END ℄ SURVEY SR 93 (I-75) LT.
STA. 1855+12.45=
STA. 1852+72.37, 44.00' LT.
℄ SURVEY SR 93 (I-75)

0 50 200
Feet

CD-3A
Exist. (2) 6'X6' Box Culvert
S INV 15.92
N INV 15.92

Exist. LA R/W Line

℄ SURVEY SR 93 (I-75) LT.

℄ SURVEY SR 93 (I-75) RT.

6.24 AC

2.52 AC

2.88 AC

2.32 AC

3.58 AC

CD-3B
Exist. (2) 6'X6' Box Culvert
S INV 14.95
N INV 14.99

Exist. R/W Line OUTFALL TO SOUTH CREEK

EXIST. EASEMENT

S 24 T 37 S R 18 E
S 13 T 37 S R 18 E
S 19 T 37 S R 19 E
S 18 T 37 S R 19 E

END ℄ SURVEY SR 93 (I-75) RT.
STA. 1850+71.65=
STA. 1850+71.65, 44.00' RT.
℄ SURVEY SR 93 (I-75)

BASIN 8 (32.75 AC)

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2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
William L. Adams, P.E. No. 57950

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

DRAINAGE MAP (1)

SHEET NO. 9

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Scale: 1" = 200' Horiz.
1" = 20' Vert.
Datum: NGVD 1929

BEGIN PROJECT
STA. 1881+63.40 ℄ SURVEY
SR 93 (I-75)

Existing Profile Northbound EOP RT.

CD-4

50 YR DHW 24.68

CD-4B
Exist 42" RCP

30.31

40.48

60
40
20
0

1865 1870 1875 1880 1885 1890

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BEGIN ℄ RAMP A
STA. 400+00.00=
STA. 1877+72.37, 104.00' LT.
℄ SURVEY SR 93 (I-75)

BEGIN PROJECT
STA. 1881+63.40 ℄ SURVEY
SR 93 (I-75)

0 50 200
Feet

EXIST. LAKE #1
NWL = 25.00
TOB = 28.00
100 YR DHWL = 27.22
SWFWMD ERP 669182

POND 9
SHWE 29.54
10 YR D.H.W. 32.30
25 YR D.H.W. 32.31

CD-4A
Exist. (1) 42" RCP

CS-9

℄ RAMP A

Exist. LA R/W Line

6.24 AC

2.09 AC

3.58 AC

Exist. LA R/W Line

73 74 75 76 77 78 79

2.32 AC

2.30 AC

℄ SURVEY SR 93 (I-75)

1.99 AC

1.39 AC

1.82 AC

0.66 AC

3.58 AC

Exist. LA R/W Line

3.43 AC

℄ RAMP B

Exist. LA R/W Line

0.17 AC

CD-4B
Exist. (1) 42" RCP

S-600

EXIST. EASEMENT

S-300 18" 0.14 AC Exist. LA R/W Line

S-301

S-303

18" S-302 0.24 AC

EXIST. EASEMENT

S 13 T 37 S R 18 E
S 18 T 37 S R 19 E

BEGIN ℄ RAMP B
STA. 700+00.00=
STA. 1878+89.78, 92.00' RT.
℄ SURVEY SR 93 (I-75)

BASIN 8 (32.75 AC)

BASIN 3
53.01 AC

BASIN 4
26.52 AC

400 405 410 700 705 710

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AMERICAN
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2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
William L. Adams, P.E. No. 57950

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

DRAINAGE MAP (2)

SHEET NO. 10

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Scale: 1" = 200' Horiz.
1" = 20' Vert.
Datum: NGVD 1929

BEGIN EXIST. BRIDGE (LT.)
STA 1904+50.89
℄ SURVEY SR 93 (I-75)

BEGIN EXIST. BRIDGE (RT.)
STA 1904+52.11
℄ SURVEY SR 93 (I-75)

END EXIST. BRIDGE (LT.)
STA 1906+92.39
℄ SURVEY SR 93 (I-75)

END EXIST. BRIDGE (RT.)
STA 1906+93.61
℄ SURVEY SR 93 (I-75)

Existing Profile Northbound EOP RT.

60 40 20 0

40.48

38.05

1895 1900 1905 1910 1915 1920

BASIN 3 (53.01 AC)

BASIN 4 (26.52 AC)

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0 50 200
Feet

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Wesley Chapel, Florida 33544
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William L. Adams, P.E. No. 57950

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

DRAINAGE MAP (3)

SHEET NO. 11

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Scale: 1" = 200' Horiz.
1" = 20' Vert.
Datum: NGVD 1929

END PROJECT
STA. 1929+81.78 ℄ SURVEY
SR 93 (I-75)

Existing Profile Northbound EOP RT.

CD-5
50 YR DHW 31.45
CD-5A
Exist 9'X6' Box Culvert

CD-6
50 YR DHW 31.98
CD-6B
Exist 48" RCP

38.05
36.22

60 40 20 0
1920 1925 1930 1935 1940 1945

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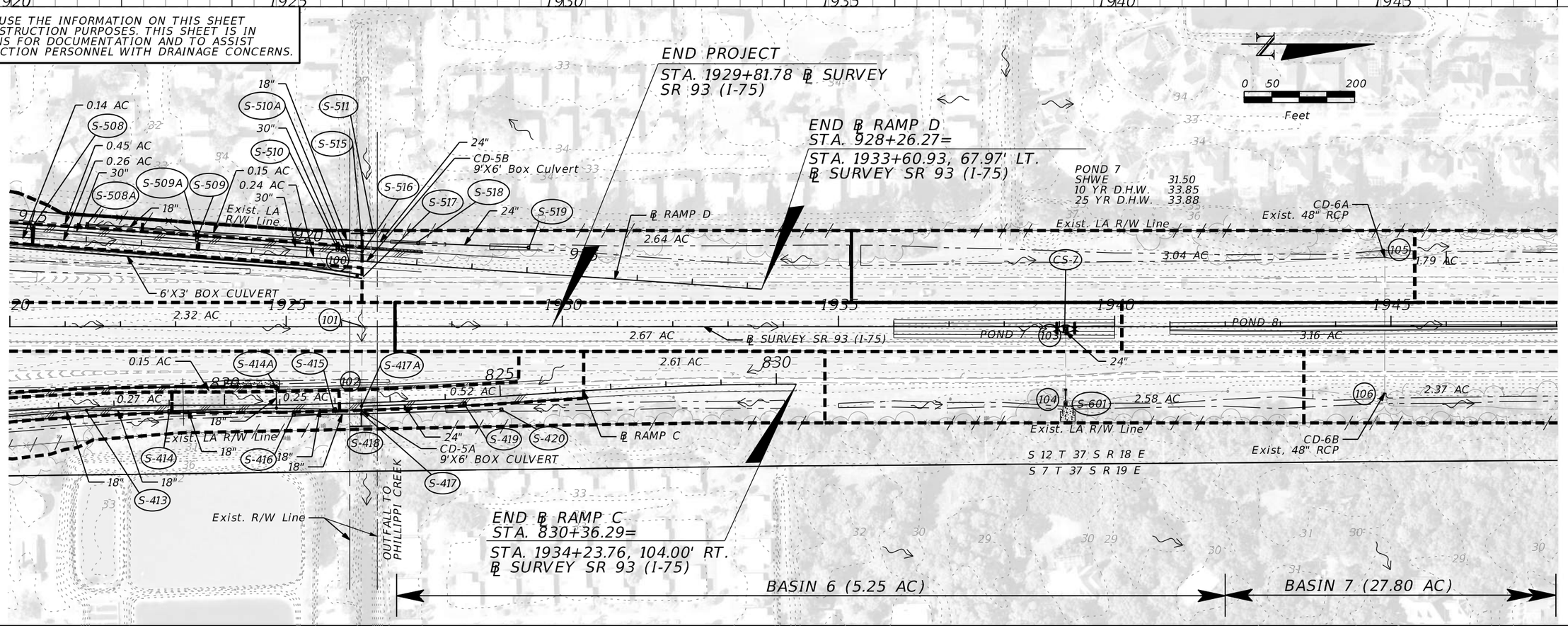

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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

DRAINAGE MAP (4)

SHEET NO. 12

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Scale: 1" = 200' Horiz.
1" = 20' Vert.
Datum: NGVD 1929

EQUATION:
STA. 1954+84.60 (BK.) ℄ SURVEY
SR 93 (I-75) =
STA. 127+73.76 (AH.) ℄ SURVEY
SR 93 (I-75)

END CONSTRUCTION
STA. 147+00.00 ℄ SURVEY
SR 93 (I-75)

CD-7
50 YR DHW 30.51
CD-7B
Exist 24" RCP

Existing Profile Northbound E0P RT.

CD-8
50 YR DHW 25.50
CD-8B
Exist 5'X5' Box Culvert

36.22
30.56

60
40
20
0

1950
130
135
140
145

EQUATION:
STA. 1954+84.60 (BK.) ℄ SURVEY
SR 93 (I-75) =
STA. 127+73.76 (AH.) ℄ SURVEY
SR 93 (I-75)

S 12 T 37 S R 18 E
S 1 T 37 S R 18 E
PROCTOR ROAD

Exist. LA R/W Line
18"
5'X4' BOX CULVERT
S-605
S-606
110
112
114
CD-8A
5'X5' Box Culvert

CD-7A
Exist. 24" RCP
Exist. LA R/W Line
POND 8
SHWE 31.70
10 YR D.H.W. 33.38
25 YR D.H.W. 33.42
107
1.79 AC
CS-8
4.47 AC
24"
108
POND 8
3.16 AC
℄ SURVEY SR 93 (I-75)
109
2.37 AC
3.78 AC
CD-7B
Exist. 24" RCP
S-608
42"
S-609
42"
111
113
3.51 AC
116
S-610
Exist. LA R/W Line
S-604
18"
S-607
S 12 T 37 S R 18 E
S 7 T 37 S R 19 E
S 1 T 37 S R 18 E
S 6 T 37 S R 19 E
CD-8B
5'X5' Box Culvert
OUTFALL TO PHILLIPPI CREEK
Exist. R/W Line
Exist. LA R/W Line
BASIN 7 (27.80 AC)

Exist. LA R/W Line
1.88 AC
115

N
0 50 200
Feet

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2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
William L. Adams, P.E. No. 57950

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

DRAINAGE MAP (5)

SHEET NO. 13

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N

0 50 200
Feet

CATTLEMEN ROAD

140

135

CD-8A
5'X5' BOX CULVERT

114

115

116

PT STA. 138+26.68

OUTFALL TO
PHILLIPPI CREEK

CD-8B
5'X5' BOX CULVERT

1.87 AC

3.80 AC

3.51 AC

Exist. R/W Line

EXIST. POND A
SHWL = 26.30
100 YR DHWL = 27.94
SWFWMD ERP 21659

Exist. LA R/W Line

S 1 T 37 S R 18 E
S 6 T 37 S R 19 E

S-609

42"

S-610

Exist. LA R/W Line

Exist. R/W Line

Exist. LA R/W Line

EXIST. 5'X4' BOX CULVERT

112

113

S 1 T 37 S R 18 E
S 12 T 37 S R 18 E

PROCTOR ROAD

PROCTOR ROAD

S 6 T 37 S R 19 E
S 7 T 37 S R 19 E

Exist. R/W Line

110

111

Exist. LA R/W Line

S-605

18"

5'X'4' BOX CULVERT

S-606

S-607

18"

Exist. LA R/W Line

Exist. R/W Line

S-604

S-608

3.78
AC

S 12 T 37 S R 18 E
S 7 T 37 S R 19 E

EQUATION:
STA. 1954+84.60 (BK.) ℄ SURVEY
SR 93 (I-75) =
STA. 127+73.76 (AH.) ℄ SURVEY
SR 93 (I-75)

4.47
AC

POND 8

CS-8

℄ SURVEY SR 93 (I-75)

EXIST. POND P12-22

CD-7A
24" RCP

107

109

3.16 AC

CD-7B
24" RCP

1.79
AC

2.37
AC

1950

EXIST. POND P10-313

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
William L. Adams, P.E. No. 57950

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

DRAINAGE MAP (6)

SHEET NO. 14

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Scale: 1" = 200' Horiz.
1" = 20' Vert.
Datum: NGVD 1929

BEGIN CONSTRUCTION
STA. 234+50.00
℄ SURVEY SR 72

STA. 238+40.00 ℄ SURVEY SR 72 =
STA. 558+40.34 ℄ CONST. DDIEB
OFFSET 14.00' RT.

INTERSECTION:
STA. 1077+65.00 ℄ CONST. SR 72 0.00 ' LT./RT.=
STA. 577+53.88 ℄ CONST. DDIEB, 39.83' RT.

END DDIEB PROFILE
BEGIN DDICL PROFILE
STA. 1077+65.00

PROPOSED PROFILE AT ℄ CONST. DDIEB

PROPOSED PROFILE AT ℄ CONST. SR 72

Existing Ground at ℄ CONST. DDIEB

Existing Ground at ℄ CONST. SR 72

S-100 S-101 S-102 S-103 S-104 S-105 S-106 S-107 S-108 S-109 S-110 S-110A S-110B S-111 S-112 S-113 S-114 S-115 S-116 S-117 S-117A S-118 S-120 S-122 S-123 S-124 S-125 S-126 S-126A S-127 S-128 S-129 S-130 S-131 S-132 S-133 S-134 S-135 S-136 S-138 S-139 S-140 S-141 S-143 S-144 S-145 S-146 S-146A S-146B S-147 S-148 S-200 S-201 S-204 S-205 S-207 S-208 S-210 S-211 S-500 S-501 S-501A S-512 S-513 S-513A S-514 CS-2

18" PIPE FL 33.50 FL 33.70 FL 33.49 FL 33.42 FL 31.65
24" PIPE FL 33.43 FL 32.93 FL 32.54 FL 32.43
30" PIPE FL 31.35 FL 30.35 FL 27.56 FL 32.15 FL 30.85 FL 31.70 FL 27.38
50 YR DHW 33.81
CD (1) 2-36" RCP
FL 31.00 FL 30.80 FL 28.70 FL 25.47 CD 36" FL 29.06 36.37

235 560 565 570 575 1077+65 1083

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0 50 200
Feet

N

BEGIN CONSTRUCTION
STA. 234+50.00
℄ SURVEY SR 72

STA. 238+40.00
℄ SURVEY SR 72=
STA. 1058+55.99
℄ CONST. SR 72

STA. 58+40.65
℄ CONST. DDIWB
OFFSET 14.00' LT.

℄ SURVEY. SR 72
Exist. R/W Line
S 12 T 37 S R 18 E
S 13 T 37 S R 18 E
Exist. R/W Line
℄ CONST. SR 72

STA. 238+40.00
℄ SURVEY SR 72=
STA. 1058+55.99
℄ CONST. SR 72

STA. 558+40.34
℄ CONST. DDIEB
OFFSET 14.00' RT.

GANTT ROAD
APPROACH ROAD
CATAMARAN DRIVE

POND 1A
SHWE 32.70
10 YR D.H.W. 34.73
25 YR D.H.W. 34.76

POND 1B
SHWE 33.80
10 YR D.H.W. 35.18
25 YR D.H.W. 35.20

POND 2
SHWE 33.00
10 YR D.H.W. 34.83
25 YR D.H.W. 34.89

EQUATION:
STA. 239+40.91 (BK.)
STA. 259+45.24 (AH.)

ACCESS EASEMENT

BASIN 1 (1.81 AC)
BASIN 2 (1.53 AC)
BASIN 3 (53.01 AC)

6'X3' BOX CULVERT

CD-1A
Exist. (2) 36" RCP

CD-1B
Exist. (2) 36" RCP

2-36" PIPES

END ℄ RAMP A
STA. 429+92.54 =
STA. 575+60.72
(℄ CONST. DDIEB)
OFFSET 41.17' RT.

NOTE:
PROPOSED CD-1 ℄ RAMP A = S-135

INTERSECTION
STA. 1077+65.00 ℄ CONST. SR 72, 0.00' LT./RT.
STA. 577+53.88 ℄ CONST. DDIEB, 39.83' RT.
END DDIEB PROFILE
BEGIN DDICL PROFILE
STA. 1077+65.00

BEGIN ℄ RAMP D
STA. 900+00.00 =
STA. 77+85.09
(℄ CONST. DDIWB)
OFFSET 63.00' LT.

℄ RAMP D
℄ RAMP D-1
℄ RAMP A-1

POND 6
CE 30.50
10 YR D.H.W. 33.32
25 YR D.H.W. 33.64

POND 3
CE 30.50
10 YR D.H.W. 33.37
25 YR D.H.W. 33.69

Exist. LA R/W Line
1.63 AC
Exist. LA R/W Line
Exist. LA R/W Line
Exist. R/W Line
℄ CONST. DDIEB

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

DRAINAGE MAP (7)

SHEET NO. 15

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Scale: 1" = 200' Horiz.
1" = 20' Vert.
Datum: NGVD 1929

INTERSECTION:
STA. 1089+65.00 ℄ CONST. SR 72 0.00' LT./RT.=
STA. 589+72.05 ℄ CONST. DDIEB, 19.56' RT.

END DDICL PROFILE
BEGIN DDIEB PROFILE
STA. 1089+65.00

END CONSTRUCTION
STA. 309+50.00
℄ SURVEY SR 72

PROPOSED PROFILE AT ℄ CONST. SR 72

PROPOSED PROFILE AT ℄ CONST. DDIEB

S-151A · S-156 · S-158 · S-162 · S-164 · S-167 · CD-2

35.62 · 38.70 · 38.31 · 35.90 · 35.84 · 35.84 · 36.37

18" PIPE · 24" PIPE · FL 30.24 · FL 29.30 · FL 26.95 CD 36" · FL 31.44 · FL 31.68 · FL 31.97 · FL 32.20

Existing Ground at ℄ CONST. SR 72

Existing Ground at ℄ CONST. DDIEB

50 YR DHW 31.06
CD-2A
Exist (2) 42" RCP

1083 · 590 · 595 · 600 · 605

POND 5
CE 31.00
10 YR D.H.W. 33.53
25 YR D.H.W. 33.80

BEGIN ℄ RAMP C
STA. 800+00.00 =
STA. 91+27.35
(℄ CONST. DDIWB)
OFFSET 40.00' LT.

STA. 1104+49.37
℄ CONST. SR 72 =
STA. 104+66.92
℄ CONST. DDIWB
OFFSET 0.00' LT.

Exist. R/W Line OUTFALL TO PHILLIPPI CREEK

S 7 T 37 S R 19 E
S 18 T 37 S R 19 E

0 50 200 Feet

CD-2B
Exist. (2) 42" RCP

Exist. R/W Line

Exist. R/W Line

CD-2A
Exist. (2) 42" RCP

℄ CONST. SR 72

℄ CONST. SR 72

℄ RAMP C-1 · Exist. LA R/W Line · ℄ RAMP B · Exist. LA R/W Line · ℄ RAMP B-1 · ℄ SURVEY SR 93 (I-75)

℄ CONST. DDIWB · ℄ CONST. DDIEB Exist. R/W Line

QUEENSBURY BOULEVARD

INTERSECTION
STA. 1089+65.00 ℄ CONST. SR 72, 0.00' LT./RT.
STA. 589+72.05 ℄ CONST. DDIEB, 19.56' RT.
END DDICL PROFILE
BEGIN DDIEB PROFILE
STA. 1089+65.00

END ℄ RAMP B
STA. 727+48.84 =
STA. 589+76.51 (℄ CONST. DDIEB)
OFFSET 32.22' RT.

POND 4
CE 31.00
10 YR D.H.W. 33.58
25 YR D.H.W. 33.87

BASIN 4 (26.52 AC) · BASIN 5 (18.45 AC)

END CONSTRUCTION
1109+76.73 ℄ CONST. SR 72
309+50.00 ℄ SURVEY SR 72

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SR 93	SARASOTA	201277-3-52-01

DRAINAGE MAP (8)

SHEET NO. 16

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SUMMARY OF FLOOD DATA

STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		GREATEST FLOOD			
		2% PROB	50 YR FREQ	1% PROB	100 YR FREQ				
		DISCHARGE	STAGE	DISCHARGE	STAGE	DISCHARGE	STAGE	PROB %	FREQ YR
CD-1	1076+59.74	39.17	33.81	43.75	33.90	46.76	33.98	0.20%	500
CD-2	1105+23.50	32.00	31.06	35.39	31.21	40.22	31.30	0.20%	500
CD-3	1846+55.65	24.77	20.96	26.91	20.96	29.42	20.96	0.20%	500
CD-4	1868+98.25	13.18	24.68	14.35	24.80	15.77	24.93	0.20%	500
CD-5	1926+36.92	115.37	31.45	121.58	31.59	130.61	31.72	0.20%	500
CD-6	1944+89.08	75.54	31.98	79.54	32.22	83.42	32.45	0.20%	500
CD-7	1951+41.31	76.29	30.51	80.36	30.63	84.04	30.75	0.20%	500
CD-8	138+00.46	22.28	25.50	24.60	25.61	27.27	25.71	0.20%	500

NOTE: CD-1 and CD-2 are based off CL CONST. SR 72 and CD-3 to CD-8 are based off BL SURVEY SR 93 (I-75)

NOTE: THIS HYDRAULIC DATA IS A SUMMARY OF DESIGN CALCULATIONS AND IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE USER IS CAUTIONED AGAINST THE ASSUMPTION OF PRECISION FOR THE DISCHARGE RATES AND WATER SURFACE ELEVATIONS. THE UNITS ARE IN CUBIC FEET PER SECOND (CFS) AND THE DESIGN STAGES ARE IN FEET, NAVD, 1929.

DEFINITIONS:

DESIGN FLOOD: THE FLOOD UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE

BASE FLOOD: THE FLOOD HAVING A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR. (100 YR. FREQUENCY)

GREATEST FLOOD: THE MOST SEVERE FLOOD THAT CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

DRAINAGE MAP (9)

SHEET NO. 17

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BASIN 3 (52.16 AC)

BASIN 4 (26.62 AC)

BEGIN EXIST. BRIDGE (LT.)
STA. 1904+50.89
℄ SURVEY SR 93 (I-75)
BEGIN EXIST. BRIDGE (RT.)
STA. 1904+52.11
℄ SURVEY SR 93 (I-75)

END EXIST. BRIDGE (LT.)
STA. 1906+92.39
℄ SURVEY SR 93 (I-75)
END EXIST. BRIDGE (RT.)
STA. 1906+93.61
℄ SURVEY SR 93 (I-75)

Exist. LA R/W Line
℄ RAMP A
℄ RAMP A-1
℄ RAMP B
℄ RAMP B-1
℄ RAMP C
℄ RAMP C-1
℄ RAMP D
℄ RAMP D-1
℄ SURVEY SR 93 (I-75)
℄ SURVEY SR 72
℄ CONST. DDIEB
℄ CONST. DDIWB
℄ CONST. SR72
EASEMENT LINE
CD-1A Exist (2) 36" RCP
CD-1B Exist (2) 36" RCP
6'X3' BOX CULVERT

POND 3
CE 30.50
10 YR D.H.W. 33.37
25 YR D.H.W. 33.69

POND 4
CE 31.00
10 YR D.H.W. 33.58
25 YR D.H.W. 33.87

POND 5
CE 31.00
10 YR D.H.W. 33.53
25 YR D.H.W. 33.80

POND 6
CE 30.50
10 YR D.H.W. 33.32
25 YR D.H.W. 33.64

0 50 200
Feet

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

INTERCHANGE DRAINAGE MAP

SHEET NO. 18

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1
STA. 236+47.11, 53.95 RT.
℄ SURVEY SR 72
CURB INLET
GRATE EL. 35.23
E FL 28.67 (18" RCP)

2
STA. 238+58.08, 58.25 RT.
℄ SURVEY SR 72
MH
RIM EL. 37.43
W FL 28.08 (18" RCP)
N FL 28.48 (24" RCP)

3
STA. 238+59.30, 60.41 LT.
℄ SURVEY SR 72
MH
RIM EL. 36.07
E FL 28.83 (18" RCP)
S FL 28.83 (24" RCP)

4
STA. 239+05.82, 76.16 LT.
℄ SURVEY SR 72
CURB INLET
GRATE EL. 36.01
SW FL 29.87 (18" RCP)
NE FL 29.62 (18" RCP)

5
STA. 239+05.60, 90.06 LT.
℄ SURVEY SR 72
DBI
TOP EL. 34.79
S FL 29.59 (18" RCP)

6
STA. 259+62.06, 104.44 LT.
℄ SURVEY SR 72
CURB INLET
GRATE EL. 36.01
W FL 29.90 (18" RCP)

7
STA. 261+47.65, 139.48 LT.
℄ SURVEY SR 72
DBI
TOP EL. 36.49
S FL 33.16 (23"X14" RCP)

8
STA. 261+48.70, 103.44 LT.
℄ SURVEY SR 72
DBI
TOP EL. 34.51
N FL 30.85 (23"X14" RCP)
E FL 30.90 (38"X24" RCP)
S FL 31.17 (18" RCP)

9
STA. 261+53.20, 1.63 RT.
℄ SURVEY SR 72
CURB INLET
GRATE EL. 37.94
N FL 31.74 (18" RCP)
E FL 31.72 (15" RCP)

10
STA. 262+45.35, 10.22 LT
℄ SURVEY SR 72
CURB INLET
GRATE EL. 37.30
W FL 31.96 (15" RCP)

11
STA. 262+92.22, 158.17 LT.
℄ SURVEY SR 72
PIPE END
E FL 33.53 (15" RCP)

12
STA. 263+51.60, 169.19 LT.
℄ SURVEY SR 72
HDWL.
TOP EL. 36.44
W FL 33.64 (15" RCP)

13
STA. 264+18.06, 137.62 LT.
℄ SURVEY SR 72
DBI
TOP EL. 35.02
W FL 30.81 (38"X24" RCP)
E FL 30.82 (38"X24" RCP)

14
STA. 265+71.39, 161.54 LT.
℄ SURVEY SR 72
DBI
TOP EL. 35.25
W FL 30.58 (38"X24" RCP)
E FL 30.56 (30" RCP)

15
STA. 265+75.18, 73.04 RT.
℄ SURVEY SR 72
DBI
TOP EL. 35.52
S FL 32.87 (15" RCP)

16
STA. 265+98.73, 53.86 RT.
℄ SURVEY SR 72
DBI
TOP EL. 35.65
N FL 34.58 (15" RCP)

17
STA. 265+98.65, 40.08 RT.
℄ SURVEY SR 72
MES
S FL 34.17 (15" RCP)

18
STA. 266+13.91, 30.38 RT.
℄ SURVEY SR 72
MES
E FL 33.43 (24" RCP)

19
STA. 266+14.99, 170.87 LT.
℄ SURVEY SR 72
MH
RIM EL. 40.79
W FL 30.54 (30" RCP)
E FL 30.53 (30" RCP)

19A
STA. 266+21.05, 195.28 LT.
℄ SURVEY SR 72
DBI
TOP EL. 35.77
N FL 30.64 (18" RCP)
S FL 30.64 (18" RCP)

19B
STA. 266+29.68, 343.73 LT.
℄ SURVEY SR 72
CURB INLET
TOP EL. 35.00
E FL 30.92 (18" RCP)
S FL 30.92 (18" RCP)

19C
STA. 266+65.79, 356.24 LT.
℄ SURVEY SR 72
CURB INLET
TOP EL. 35.20
W FL 31.01 (18" RCP)

20
STA. 268+34.22, 42.71 RT
℄ SURVEY SR 72
DBI
TOP EL. UNKNOWN
S FL 33.86 (12" CMP)

21
STA. 268+85.63, 2221.01 LT.
℄ SURVEY SR 72
DBI
TOP EL. 35.10
W FL 30.55 (30" RCP)
E FL 30.53 (30" RCP)

22
STA. 269+01.83, 31.06 RT.
℄ SURVEY SR 72
MES
W FL 32.70 (24" RCP)

23
STA. 269+87.60, 226.71 LT.
℄ SURVEY SR 72
HDWL.
TOP EL. 35.31
W FL 31.19 (30" RCP)

24
STA. 270+59.12, 30.60 RT.
℄ SURVEY SR 72
MES
E FL 33.17 (24" RCP)

25
STA. 271+06.06, 30.54 RT.
℄ SURVEY SR 72
MES
W FL 33.13 (24" RCP)

26
STA. 273+00.71, 29.76 RT.
℄ SURVEY SR 72
MES
W FL 32.61 (18" RCP)

27
STA. 275+02.52, 214.78 LT.
℄ SURVEY SR 72
HDWL.
TOP EL. 35.46
W FL 31.72 (2-36" RCP)
E FL 31.75 (2-36" RCP)

28
STA. 275+00.56, 121.97 LT.
℄ SURVEY SR 72
DBI
TOP EL. 35.59
N FL 31.61 (36" RCP)
S FL 31.63 (36" RCP)

29
STA. 275+03.44, 32.57 LT.
℄ SURVEY SR 72
HDWL.
TOP EL. 35.98
W FL 31.55 (2-36" RCP)
E FL 31.60 (2-36" RCP)

30
STA. 278+79.27, 188.22 LT.
℄ SURVEY SR 72
CURB INLET
GRATE EL. 37.43
S FL 30.74 (18" RCP)
E FL 30.74 (18" RCP)

31
STA. 279+02.46, 56.26 LT.
℄ SURVEY SR 72
CURB INLET
GRATE EL. 37.09
N FL 31.60 (18" RCP)

32
STA. 279+35.49, 209.88 LT.
℄ SURVEY SR 72
MES
W FL 29.85 (18" RCP)

33
STA. 281+30.58, 230.07 LT.
℄ SURVEY SR 72
U-ENDWALL
TOP EL. 32.20
S FL 31.09 (24" RCP)

34
STA. 281+30.47, 19.90 LT.
℄ SURVEY SR 72
U-ENDWALL
TOP EL. 33.23
N FL 30.40 (24" RCP)

35
STA. 282+02.23, 128.55 LT.
℄ SURVEY SR 72
CURB INLET
TOP EL. 36.05
E FL 29.55 (18" RCP)
W FL UNKNOWN

36
STA. 282+53.33, 115.79 LT.
℄ SURVEY SR 72
CURB INLET
TOP EL. 35.95
NW FL 29.53 (18" RCP)

37
STA. 284+47.59, 128.92 LT.
℄ SURVEY SR 72
CURB INLET
TOP EL. 36.05
SE FL 29.28 (18" RCP)

38
STA. 284+96.82, 115.69 LT
℄ SURVEY SR 72
CURB INLET
TOP EL. 35.80
W FL 29.26 (18" RCP)
E FL UNKNOWN

38A
STA. 285+51.52, 230.26 LT.
℄ SURVEY SR 72
U-ENDWALL
TOP EL. 31.81
S FL 28.96 (24" RCP)

38B
STA. 285+49.66, 17.84 LT.
℄ SURVEY SR 72
U-ENDWALL
TOP EL. 32.94
N FL 30.03 (24" RCP)

39
STA. 286+97.61, 225.42 LT.
℄ SURVEY SR 72
U-ENDWALL
TOP EL. 32.63
E FL 30.32 (18" RCP)

40
STA. 287+88.68, 188.39 LT.
℄ SURVEY SR 72
CURB INLET
GRATE EL. 36.42
S FL 31.22 (18" RCP)
W FL 30.99 (18" RCP)

41
STA. 288+08.62, 56.00 LT.
℄ SURVEY SR 72
CURB INLET
GRATE EL. 36.26
N FL 27.25 (18" RCP)

42
STA. 295+82.48, 32.65 LT.
℄ SURVEY SR 72
U-ENDWALL
TOP EL. 32.92
E FL 30.02 (24" RCP)

43
STA. 296+00.13, 122.11 LT.
℄ SURVEY SR 72
DBI
TOP EL. 33.45
S FL 30.77 (18" RCP)

44
STA. 295+98.91, 32.38 LT.
℄ SURVEY SR 72
MH
RIM EL. 33.63
W FL 29.91 (24" RCP)
N FL 29.91 (18" RCP)
E FL 29.91 (15" RCP)
S FL 29.91 (32" CMP)

45
STA. 295+98.71, 22.86 RT.
℄ SURVEY SR 72
HDWL.
TOP EL. 32.24
N FL 29.29 (32" CMP)

46
STA. 296+18.57, 32.15 LT
℄ SURVEY SR 72
U-ENDWALL
TOP EL. 32.31
W FL 30.16 (15" RCP)

47
STA. 297+33.99, 230.33 LT
℄ SURVEY SR 72
MES
E FL 29.52 (18" RCP)

48
STA. 298+25.04, 230.30 LT
℄ SURVEY SR 72
MES
W FL 29.42 (18" RCP)

49
STA. 298+27.69, 36.39 RT.
℄ SURVEY SR 72
MES
E FL 29.25 (24" HDPE)

50
STA. 299+00.68, 23.96 LT
℄ SURVEY SR 72
HDWL.
TOP EL. 31.76
S FL 29.50 (12" HDPE)

51
STA. 299+00.04, 35.43 RT.
℄ SURVEY SR 72
DBI
GRATE EL. 32.85
N FL 29.30 (12" HDPE)
W FL 29.25 (24" HDPE)
E FL 29.25 (24" HDPE)

52
STA. 299+85.52, 35.66 RT.
℄ SURVEY SR 72
DBI
TOP EL. 32.41
W FL 29.16 (24" HDPE)
E FL 29.16 (24" HDPE)

53
STA. 300+42.21, 36.36 RT.
℄ SURVEY SR 72
MES
W FL 29.18 (24" HDPE)

54
STA. 300+89.48, 94.95 LT.
℄ SURVEY SR 72
DBI
TOP EL. 33.03
N FL 29.51 (15" RCP)

55
STA. 301+03.91, 175.12 LT.
℄ SURVEY SR 72
HDWL.
TOP EL. 31.75
S FL 29.07 (15" RCP)

56
STA. 301+06.05, 36.31 RT.
℄ SURVEY SR 72
MES
E FL 29.05 (30" RCP)

57
STA. 301+32.49, 35.99 RT.
℄ SURVEY SR 72
MES
W FL 28.77 (30" RCP)

58
STA. 302+71.66, 31.74 RT.
℄ SURVEY SR 72
MES
E FL 28.22 (24" RCP)
E FL 28.09 (24" RCP)

59
STA. 303+10.45, 32.10 RT.
℄ SURVEY SR 72
MES
W FL 28.20 (24" RCP)
W FL 28.14 (24" RCP)

60
STA. 304+89.64, 28.44 RT.
℄ SURVEY SR 72
HDWL.
NW FL 27.57 (42" RCP)
NE FL 27.51 (42" RCP)

60A
STA. 305+03.06, 20.00 LT.
℄ SURVEY SR 72
CURB INLET
GRATE EL. 36.06
N FL 27.73 (42" RCP)
S FL 27.79 (42" RCP)

61
STA. 305+05.49, 93.67 LT.
℄ SURVEY SR 72
HDWL.
NW FL 27.42 (42" RCP)
NE FL 27.45 (42" RCP)

62
STA. 305+25.99, 37.25 RT.
℄ SURVEY SR 72
MES
E FL 28.94 (24" RCP)

63
STA. 305+73.50, 37.49 RT.
℄ SURVEY SR 72
DBI
TOP EL. 32.92
W FL 29.52 (24" RCP)
E FL 29.49 (24" RCP)

64
STA. 306+59.26, 39.84 RT.
℄ SURVEY SR 72
MH
RIM EL. 34.38
W FL 29.43 (24" RCP)
S FL 29.53 (18" RCP)

65
STA. 306+59.97, 47.24 RT.
℄ SURVEY SR 72
MES
N FL 30.59 (18" RCP)

66
STA. 1845+99.10, 46.70 LT.
℄ SURVEY SR 93
DBI
TOP EL. 19.65
E FL 16.15 (24" RCP)

67
STA. 1845+95.02 77.68 RT.
℄ SURVEY SR 93
HDWL.
TOP EL. 22.80
N FL 14.99 (6'X6' BOX CULVERT)
S FL 14.95 (6'X6' BOX CULVERT)

68
STA. 1847+20.00, 170.72 LT.
℄ SURVEY SR 93
HDWL.
TOP EL. 22.72
N FL 15.92 (6'X6' BOX CULVERT)
S FL 15.92 (6'X6' BOX CULVERT)

69
STA. 1847+15.50, 45.77 LT.
℄ SURVEY SR 93
DBI
TOP EL. 19.62
W FL 16.61 (24" RCP)

70
STA. 1847+85.00, 237.38 LT.
℄ SURVEY SR 93
DBI
TOP EL. 19.97
FL UNKNOWN

71
STA. 1856+98.44, 0.00 LT.
℄ SURVEY SR 93
DBI
TOP EL. 24.99
E FL 22.80 (18" RCP)

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AMERICAN
CONSULTING ENGINEERS OF FLORIDA, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
William L. Adams, P.E. No. 57950

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

EXISTING DRAINAGE STRUCTURES (1)

SHEET NO. 19

(72) STA. 1856+98.52, 101.36 RT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. 24.77
W FL 22.22 (18" RCP)

(73) STA. 1868+98.59, 118.94 LT.
℄ SURVEY SR 93
HDWL.
TOP EL. 27.10
E FL 22.15 (42" RCP)

(74) STA. 1868+98.37, 0.12 RT.
℄ SURVEY SR 93
DBI
TOP EL. 29.25
W FL 22.46 (42" RCP)
E FL 22.42 (42" RCP)

(75) STA. 1868+98.47, 119.39 RT.
℄ SURVEY SR 93
HDWL.
TOP EL. 26.21
W FL 21.26 (42" RCP)

(76) STA. 1880+48.21, 0.00 LT.
℄ SURVEY SR 93
DBI
TOP EL. 34.93
E FL 32.77 (18" RCP)

(77) STA. 1880+48.42, 102.21 RT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. 35.46
W FL 32.96 (18" RCP)

(78) STA. 1889+98.52, 0.45 RT.
℄ SURVEY SR 93
DBI
TOP EL. 36.64
E FL 34.16 (18" RCP)

(79) STA. 1889+98.49, 112.85 RT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. 36.35
W FL 33.90 (18" RCP)

(80) STA. 1896+98.02, 90.27 LT.
℄ SURVEY SR 93
DBI
TOP EL. 45.21
E FL 42.52 (18" RCP)

(81) STA. 1896+97.70, 0.17 LT.
℄ SURVEY SR 93
DBI
TOP EL. 43.40
W FL 40.53 (18" RCP)
E FL 40.49 (18" RCP)

(82) STA. 1896+97.73, 90.09 RT.
℄ SURVEY SR 93
DBI
TOP EL. 45.76
W FL 40.26 (18" RCP)
E FL 40.26 (15" CMP)

(83) STA. 1896+92.42 141.70 RT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. 37.03
W FL 34.53 (15" CMP)

(84) STA. 1900+97.23, 163.36 LT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. 36.78
E FL 34.31 (15" CMP)

(85) STA. 1900+98.05, 90.77 LT.
℄ SURVEY SR 93
DBI
TOP EL. 53.62
W FL 50.31 (15" CMP)

(86) STA. 1900+97.09, 89.43 RT.
℄ SURVEY SR 93
DBI
TOP EL. 53.55
E FL 49.66 (15" CMP)

(87) STA. 1900+99.31, 163.19 RT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. 36.76
W FL 34.49 (15" CMP)

(88) STA. 1908+67.01, 337.70 LT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. UNKOWN
NW FL 29.69 (30" RCP)

(89) STA. 1908+95.20, 413.14 LT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. UNKOWN
SE FL 29.59 (30" RCP)

(90) STA. 1910+98.99, 135.50 LT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. 36.14
E FL 33.04 (15" CMP)

(91) STA. 1910+98.51, 90.05 LT.
℄ SURVEY SR 93
DBI
TOP EL. 52.21
W FL 49.41 (15" CMP)

(92) STA. 1910+98.81, 90.54 RT.
℄ SURVEY SR 93
DBI
TOP EL. 52.19
E FL 49.26 (15" CMP)

(93) STA. 1910+98.32, 139.91 RT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. 36.30
W FL 33.65 (15" CMP)

(94) STA. 1912+94.91, 184.03 RT
℄ SURVEY SR 93
U-ENDWALL
TOP EL. 33.25
E FL 29.65 (30" RCP)

(95) STA. 1913+18.19, 269.40 RT
℄ SURVEY SR 93
U-ENDWALL
TOP EL. 33.32
W FL 30.09 (30" RCP)

(96) STA. 1915+48.51, 90.28 LT.
℄ SURVEY SR 93
DBI
TOP EL. 42.32
E FL 39.71 (18" RCP)

(97) STA. 1915+48.72, 0.95 RT.
℄ SURVEY SR 93
DBI
TOP EL. 40.57
W FL 37.64 (18" RCP)
E FL 37.48 (18" RCP)

(98) STA. 1915+48.65, 90.73 RT.
℄ SURVEY SR 93
DBI
TOP EL. 42.21
W FL 37.22 (18" RCP)
E FL 36.93 (15" CMP)

(99) STA. 1915+49.96, 125.77 RT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. 35.21
W FL 32.76 (15" CMP)

(100) STA. 1926+38.00, 118.73 LT
℄ SURVEY SR 93
HDWL.
TOP EL. 34.55
E FL 26.15 (9'X6' BOX CULVERT)

(101) STA. 1926+38.03, 0.07 LT.
℄ SURVEY SR 93
DBI
TOP EL. 34.22
W FL 26.73
E FL 26.73

(102) STA. 1926+36.74, 131.20 RT.
℄ SURVEY SR 93
HDWL.
TOP EL. 34.86
W FL 26.63 (9'X6' BOX CULVERT)

(103) STA. 1939+11.33, 0.19 LT.
℄ SURVEY SR 93
DBI
TOP EL. UNKNOWN
E FL 29.78 (24" RCP)

(104) STA. 1939+11.20, 112.99 RT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. UNKNOWN
W FL 28.83 (24" RCP)

(105) STA. 1944+89.21, 125.75 LT.
℄ SURVEY SR 93
MES
E FL 27.15 (48" RCP)

(106) STA. 1944+88.63, 120.05 RT
℄ SURVEY SR 93
MES
W FL 26.40 (48" RCP)

(107) STA. 1951+41.33, 111.33 LT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. UNKNOWN
E FL 27.83 (24" RCP)

(108) STA. 1951+41.12, 0.12 RT.
℄ SURVEY SR 93
DBI
W FL 28.33 (24" RCP)
E FL 28.33 (24" RCP)

(109) STA. 1951+41.53, 111.22 RT.
℄ SURVEY SR 93
U-ENDWALL
TOP EL. UNKNOWN
W FL 28.06 (24" RCP)

(110) STA. 130+34.91, 123.96 LT.
℄ SURVEY SR 93
HDWL.
N FL 25.23 (5'X4' BOX CULVERT)

(111) STA. 130+35.54, 209.51 RT.
℄ SURVEY SR 93
PIPE END
N FL 24.28 (48" RCP)

(112) STA. 131+78.71, 125.84 LT.
℄ SURVEY SR 93
HDWL.
S FL 25.17 (5'X4' BOX CULVERT)

(113) STA. 131+79.98, 210.01 RT.
℄ SURVEY SR 93
PIPE END
S FL 24.46 (48" RCP)

(114) STA. UNKNOWN
℄ SURVEY SR 93
HDWL.
E FL 21.52 (5'X5' BOX CULVERT)

(115) STA. 138+00.70, 0.36 RT.
℄ SURVEY SR 93
DBI
TOP EL. 29.22
W FL UNKNOWN
E FL UNKNOWN

(116) STA. 138+00.95, 120.75 RT.
℄ SURVEY SR 93
HDWL.
W FL 21.33 (5'X5' BOX CULVERT)

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REVISIONS			
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Wesley Chapel, Florida 33544
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Certificate of Authorization No. 9302
William L. Adams, P.E. No. 57950

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-3-52-01

EXISTING DRAINAGE STRUCTURES (2)

SHEET NO. 20

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
INTELLIGENT TRANSPORTATION SYSTEMS PLANS
LIGHTING PLANS
STRUCTURE PLANS

INDEX OF ROADWAY PLANS

DEVELOPMENTAL STANDARD PLANS:

* These sheets are included in the Index of Roadway Plans only to indicate that they are part of the Roadway Plans. These sheets are contained in a separate digitally signed and sealed document.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2019-20 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/Standardplans

APPLICABLE IRs:

Standard Plans for Bridge Construciton are included in the Structure Plans Component.

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2019 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

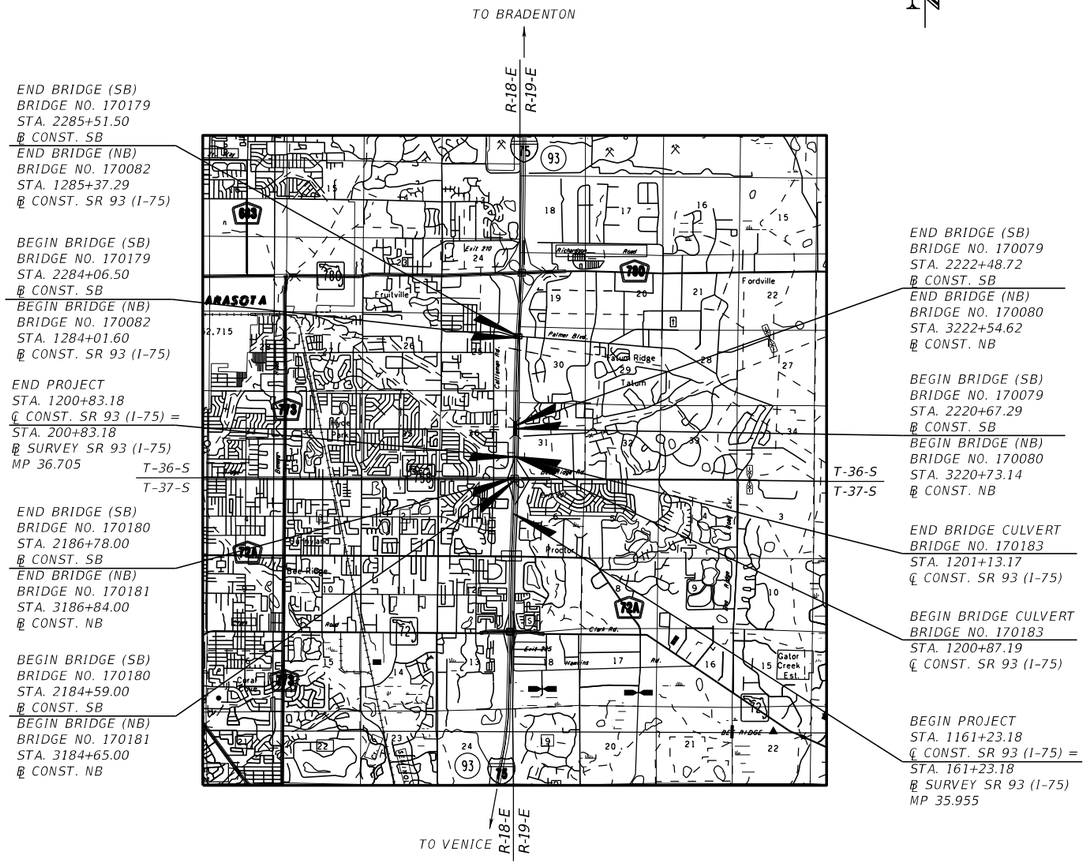
CONTRACT PLANS

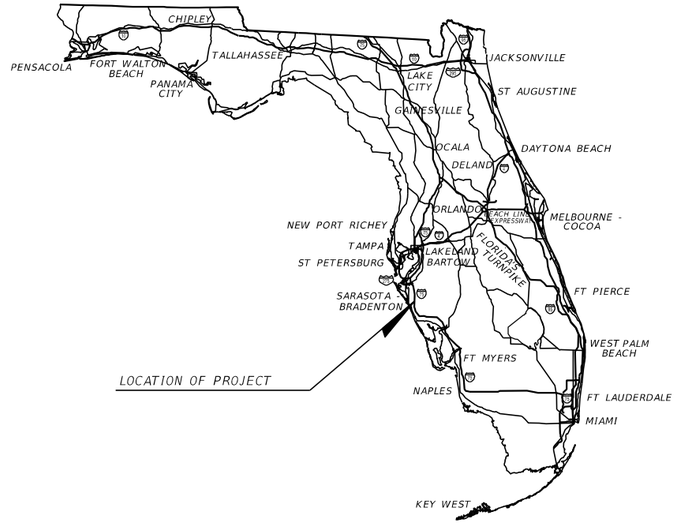
FINANCIAL PROJECT ID 201277-5-52-01

(FEDERAL FUNDS)

SARASOTA COUNTY (17075)

STATE ROAD NO. 93 (I-75)





PHASE IIIR SUBMITTAL
02/15/19

ROADWAY PLANS ENGINEER OF RECORD:

DONALD R. HOLCOMB, P.E.
P.E. NO.: 51970
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
(941) 342-2700 WWW.HDRINC.COM
CONTRACT NO. C9480
VENDOR NO. 47-0680568
CERTIFICATE OF AUTHORIZATION NO. 4213

FDOT PROJECT MANAGER:

FIDEL E. VARGAS, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	26	1

A B

BEGIN CONSTRUCTION (SB)
STA. 1125+00.00, 44.00' LT.
℄ CONST. SR 93 (I-75) =
A STA. 2125+00.00 ℄ CONST. SB

BEGIN CONSTRUCTION (NB)
STA. 1125+00.00, 44.00' RT.
℄ CONST. SR 93 (I-75) =
B STA. 3125+00.00 ℄ CONST. NB

EXIST. GROUNDLINE @ ℄ CONST. SR 93 (I-75)

PROFILE GRADE (SB)

S-100 S-102 S-103 S-104 S-105 S-106

18" PIPE
FL 28.1
FL 27.8
18" PIPE
FL 23.9
FL 21.5
FL 27.5
DHW (50 YR.) = 25.83
EXIST. 5' x 5' BC
FL 27.2
FL 26.7
FL 26.5

32.00 31.38 32.44 28.04

SCALE:
1" = 200' HORIZ.
1" = 10' VERT.
1" = 200'

SR 93 (I-75)

GROVE POINT - UNIT 1

I-75 FPID NO. 201277-3-52-0■ PROJECT DRAINAGE BASIN LIMITS

SEC 12, T 37 S, R 18 E
SEC 1, T 37 S, R 18 E
PROCTOR RD.

BASIN 33619
16.90 AC.
100 - YEAR FLOODPLAIN
DHW (100 YR.) = 25.95
(NODE 33619)

THE SPRINGS AT BEE RIDGE
ERP 4334099
LAKE A
SHW = 28.3
CONTROL = 28.30
WEIR = 29.00
DHW25 = 31.37
DHW100 = 32.04

HOME DEPOT MITIGATION SITE

S-101 0.148 Ac.
S-102 0.148 Ac.
S-100 0.152 Ac.
S-106 0.174 Ac.
S-105 0.152 Ac.
S-103 0.14 Ac.
S-104 0.315 Ac.

DHW (100 YR.) = 25.95
(NODE 33619)
SHW32 - 24.32
SWFWMD JD LINE
℄ CONST. SR 93 (I-75)
SW15W
SWFWMD JD LINE
℄ CONST. SB
WL11W EL. 26.0
WL1E
SHW3 - 24.34
SHW4 - 24.30
SWFWMD JD LINE
DHW (100 YR.) = 25.94
(NODE 33618)
EL. 26.2
WL2E
SEC 1, T 37 S, R 18 E
SEC 6, T 37 S, R 19 E
BASIN 33602
3.40 AC.
℄ SURVEY SR 93 (I-75)
℄ CONST. NB
SWFWMD JD LINE
SHW1 - 24.32
SHW2 - 23.97
BASIN 33618
26.94 AC.
100 - YEAR FLOODPLAIN
DHW (100 YR.) = 25.94
(NODE 33618)
COUNTRY CREEK SUBDIVISION

SEC 7, T 37 S, R 19 E
SEC 6, T 37 S, R 19 E
PROCTOR RD.

FOXFIRE WEST - UNIT 1

100 - YEAR FLOODPLAIN DELINEATION AND PEAK STAGE ELEVATIONS (DHW) FROM PHILLIPPI CREEK WATERSHED MODEL - MARCH 2017 (SARASOTA COUNTY), UNLESS OTHERWISE NOTED.

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES.
THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

ELEVATIONS BASED ON NGVD 29 VERTICAL DATUM

FLIGHT DATE: 04/16/13

MATCHLINE STA. 1144+00.00

DRAINAGE MAP (2)

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

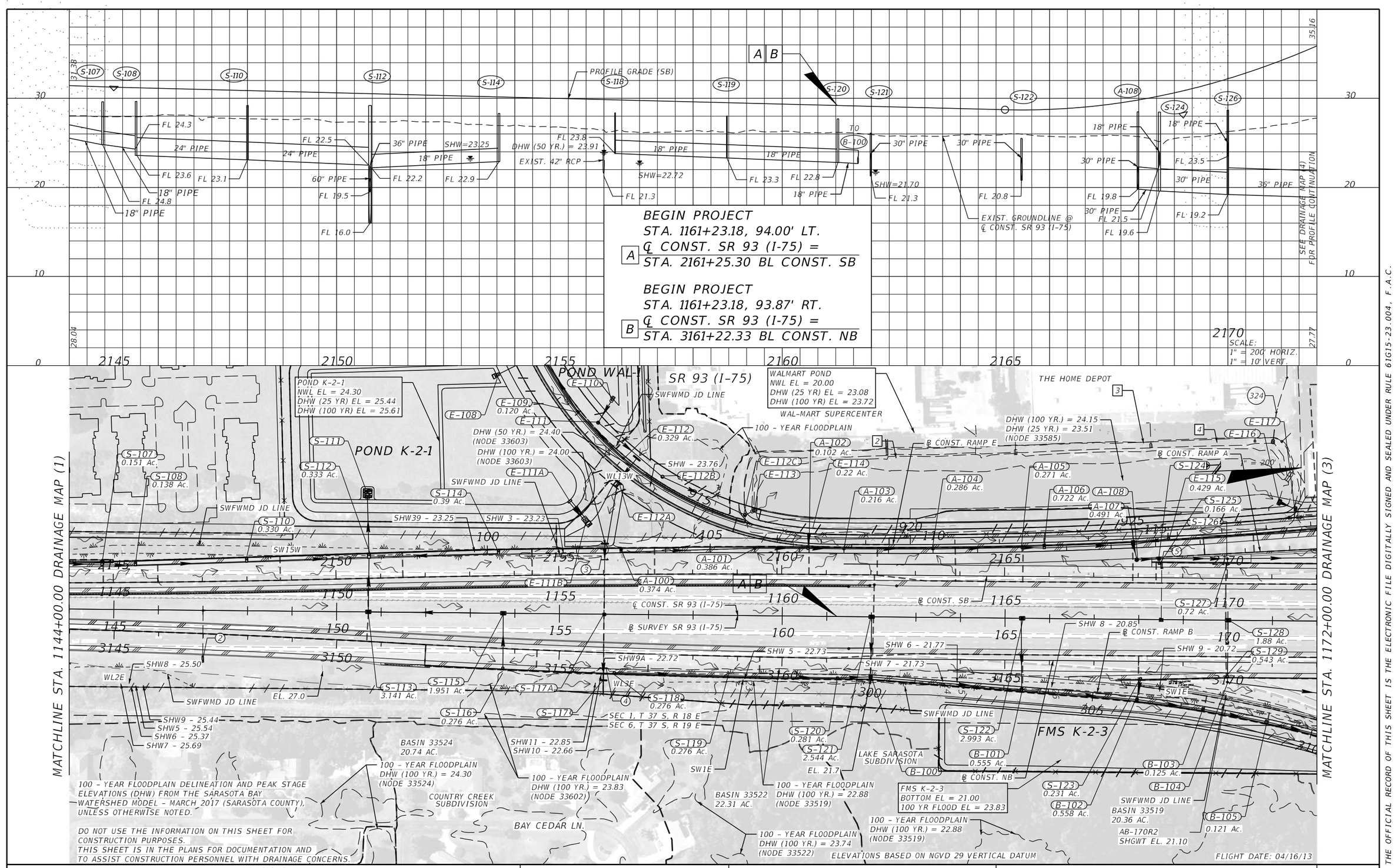
JUAN C. LOPEZ, P.E.
P.E. LICENSE NUMBER 41084
HDR Engineering, Inc.
4830 Kennedy Blvd., Suite 400
Tampa, FL 33609-2548
CERTIFICATE OF AUTHORIZATION 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-5-52-01

DRAINAGE MAP (1)

SHEET NO. 31



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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-5-52-01

DRAINAGE MAP (2)

SHEET NO. 32

1" = 200'

MATCHLINE STA. 270+00.00 DRAINAGE MAP (12)

MATCHLINE STA. 1172+00.00 DRAINAGE MAP (2)

MATCHLINE STA. 1200+00.00 DRAINAGE MAP (4)

MATCHLINE STA. 287+00.00 DRAINAGE MAP (10)

SR 93 (I-75)

BEE RIDGE RD. (SR 758)

HAMPTON INN

BEE RIDGE SQUARE

CATTLERIDGE LAND CONDO

RIDGELAKE BUISNESS PARK

PHILLIPPI CREEK BRANCH A-A

CANAL 4-86

POND L-1-1
NWL EL = 20.10
DHW (25 YR) EL = 22.09
DHW (100 YR) EL = 22.53

POND L-1-2
NWL EL = 19.50
DHW (25 YR) EL = 22.33
DHW (100 YR) EL = 23.49

POND L-1-3
NWL EL = 19.50
DHW (25 YR) EL = 21.99
DHW (100 YR) EL = 23.14

POND L-1-4
NWL EL = 20.10
DHW (25 YR) EL = 22.07
DHW (100 YR) EL = 22.49

POND L-1-5
NWL EL = 20.10
DHW (25 YR) EL = 22.02
DHW (100 YR) EL = 22.41

FMS L-1-2F
BOTTOM EL = 19.50
25 YR FLOOD EL = 21.58
100 YR FLOOD EL = 22.79

DHW (100 YR.) = 22.50 (NODE 33584)
DHW (100 YR.) = 22.19 (NODE 33583)
DHW (100 YR.) = 20.84 (NODE 33591)
DHW (100 YR.) = 22.79 (NODE 33516)
DHW (100 YR.) = 22.32 (NODE 33514)
DHW (100 – YR.) = 24.17 (NODE 32517)

PT STA. 1190+85.48 EQUATION:
STA 1190+85.48 Bk = STA 1190+85.66 Ah

FEMA REGULATED FLOODWAY 100 – YEAR EL. 20.0

FIRM MAP NO. 12115C0162F FEMA REGULATED FLOODWAY 100 – YEAR EL. 21.0

SHW 10 – 20.18
SHW 11 – 20.07
SHW 12 – 17.78
SHW 13 – 16.92
SHW13 – 21.80
SHW14 – 21.81
SHW12 – 21.86
SHW15 – 21.81
SHW28 – 20.92
SHW29 – 20.11
SHW29A – 20.85
SHW30 – 20.88
SHW 20 – 15.51
SHW 21 – 15.22
AB-176L2 SHW EL. 21.2

SWFWMD JD LINE

SEC 1, T 37 S, R 18 E
SEC 6, T 37 S, R 19 E
SEC 36, T 36 S, R 18 E
SEC 31, T 36 S, R 19 E

E-117B 0.394 Ac.
E-118 0.394 Ac.
S-130 0.229 Ac.
A-112 0.57 Ac.
S-131 0.246 Ac.
E-117A
S-132 0.85 Ac.
S-133 2.25 Ac.
A-113 0.781 Ac. EL. 22.6
A-114
E-119 0.285 Ac.
A-115 0.67 Ac.
S-136 0.395 Ac.
S-137 0.481 Ac.
S-138 0.69 Ac.
A-116 0.24 Ac.
A-117 0.244 Ac.
S-134 0.81 Ac.
S-135
B-109
B-108 1.01 Ac.
B-107 0.23 Ac.
B-106 0.17 Ac.
S-139 1.35 Ac.
S-140 0.69 Ac.
S-141
B-111AB
B-110
B-111AA
B-111
B-111B
B-111A
B-112
B-115 0.338 Ac.
B-114 0.081 Ac.
B-113 0.67 Ac.
S-142 0.66 Ac.
S-864A 0.208 Ac.
S-865 0.07 Ac.
S-875 0.253 Ac.
S-855 0.15 Ac.
S-859 0.31 Ac.
S-860 0.189 Ac.
S-864 0.248 Ac.
S-862 0.20 Ac.
S-871 0.237 Ac.
S-866 0.068 Ac.
S-867 0.161 Ac.
S-868
S-874
S-873 0.253 Ac.
S-872 0.21 Ac.
S-877 0.113 Ac.
S-881 0.192 Ac.
S-880 0.114 Ac.
S-884 0.227 Ac.
S-885 0.126 Ac.
S-887 0.099 Ac.
S-857 0.073 Ac.
S-856 0.056 Ac.
S-858
D-100 0.368 Ac.
D-101
D-102 0.208 Ac.
S-861 0.189 Ac.
S-870 0.211 Ac.
D-103 0.338 Ac.
D-104
D-106
D-109 0.486 Ac.
D-111
S-143A
S-143 0.34 Ac.
D-107
D-108
D-105 0.353 Ac.
S-875A
S-144
S-148 0.671 Ac.
S-119B
S-149 0.35 Ac.
C-100 0.192 Ac.
C-101
C-102 0.073 Ac.
S-869 0.035 Ac.
S-876 0.266 Ac.
S-883 0.27 Ac.
S-882 0.244 Ac.
S-886 0.105 Ac.
S-878 0.126 Ac.
S-879 0.277 Ac.
C-103 1.15 Ac.
C-106 1.557 Ac.
C-106A
C-107 0.309 Ac.
C-104
C-105
C-109
C-108 0.442 Ac.
S-145 1.33 Ac.
S-146 0.68 Ac.
S-147
D-112 0.294 Ac.
D-113 0.319 Ac.
E-119A 0.139 Ac.
D-110 0.363 Ac.
E-119C 0.029 Ac.
E-119D
S-150 0.157 Ac.
S-151 1.53 Ac.
E-120 0.228 Ac.
S-153 0.269 Ac.
S-154 0.54 Ac.
S-152 0.58 Ac.
C-111 0.649 Ac.
C-112 0.294 Ac.
C-110
S-156 0.231 Ac.
S-157 2.41 Ac.
S-158 0.42 Ac.
S-155 0.37 Ac.
C-115
C-113 1.557 Ac.
C-114 0.333 Ac.

E CONST. RAMP E
E CONST. RAMP A
E CONST. RAMP A1
E CONST. RAMP G
E CONST. NB
E CONST. EB
E CONST. WB
E CONST. RAMP H
E CONST. RAMP C1
E CONST. RAMP B
E CONST. SB
E CONST. RAMP D
E SURVEY BEE RIDGE RD.
E SURVEY SR 93 (I-75)
℄ CONST. SR 93 (I-75)

WL9W
WL7W
WL5E
SW1E
SW3E

100 – YEAR FLOODPLAIN DELINEATION AND PEAK STAGE ELEVATIONS (DHW) FROM THE SARASOTA BAY WATERSHED MODEL – MARCH 2017 (SARASOTA COUNTY), UNLESS OTHERWISE NOTED.

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ELEVATIONS BASED ON NGVD 29 VERTICAL DATUM

FLIGHT DATE: 04/16/13

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P.E. LICENSE NUMBER 41084
HDR Engineering, Inc.
4830 Kennedy Blvd., Suite 400
Tampa, FL 33609-2548
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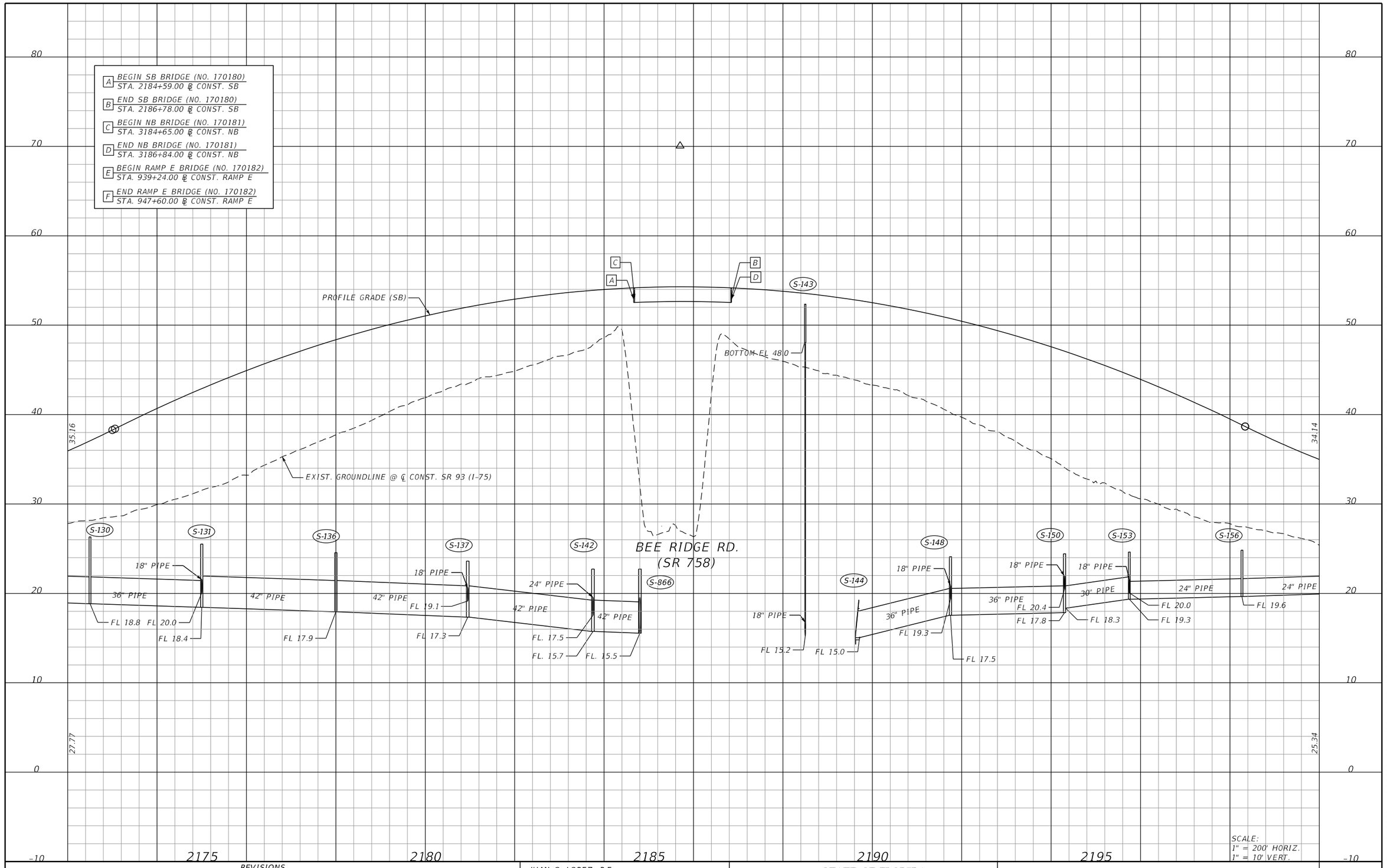
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-5-52-01

DRAINAGE MAP (3)

SHEET NO. 33

TTRAN 1/17/2019 4:57:52 PM PW:\007275\000000000212267\13.00_CAD\20127755201\drainage\DRMPRD01.DGN



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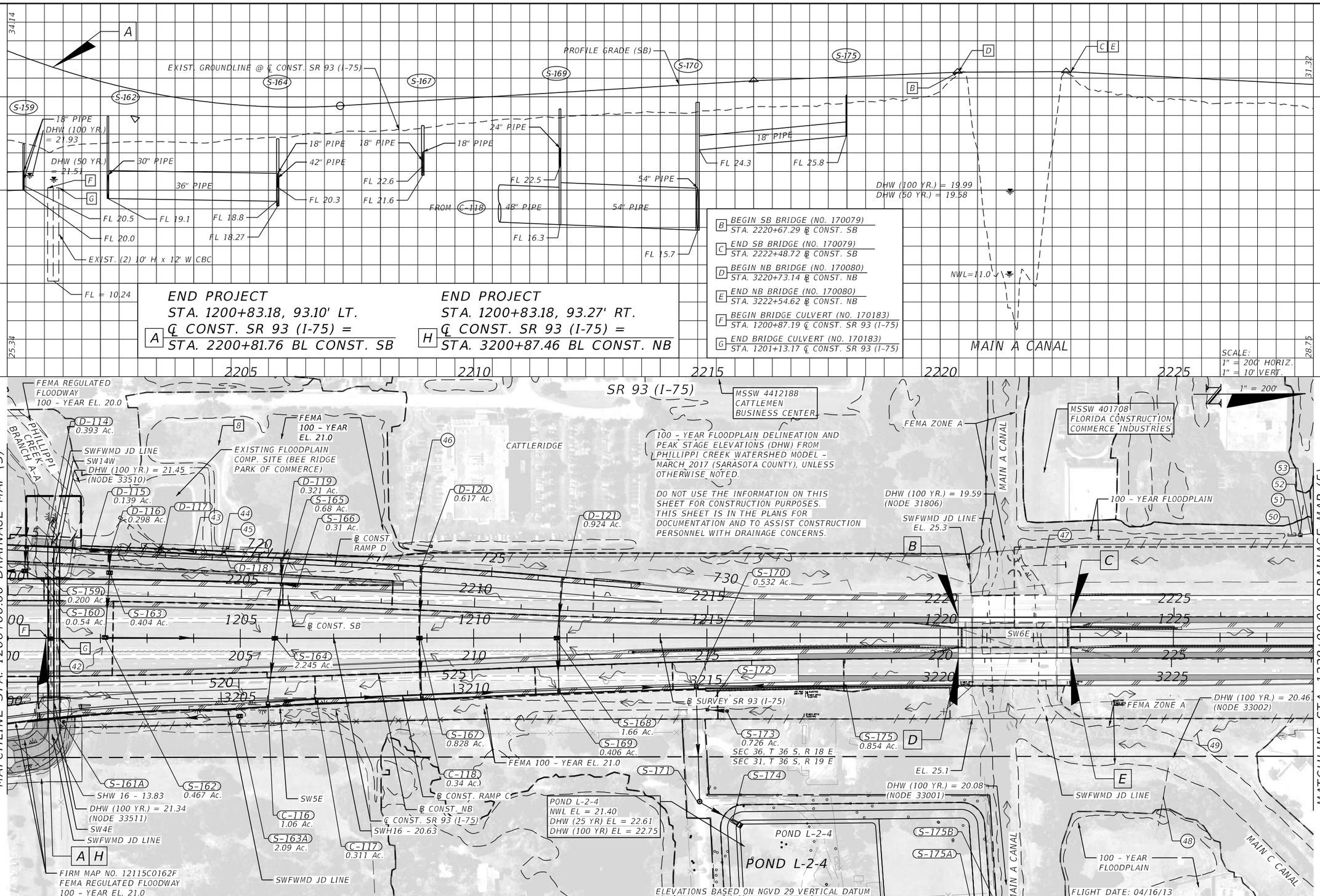
SR 93	SARASOTA	201277-5-52-01

DRAINAGE MAP (3A)

SHEET NO. 34



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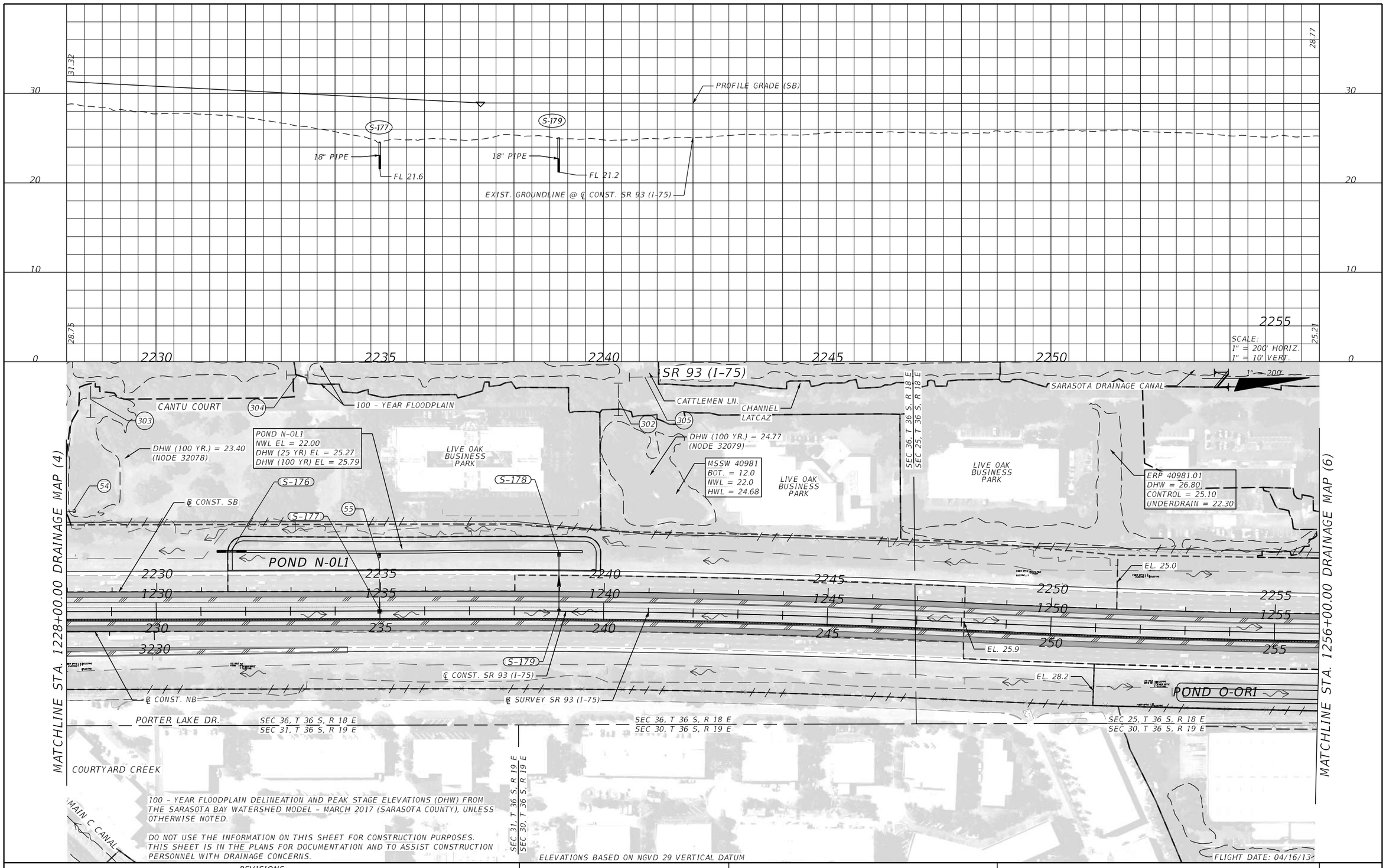
DRAINAGE MAP (4)

SHEET NO. 35



100 - YEAR FLOODPLAIN DELINEATION AND PEAK STAGE ELEVATIONS (DHW) FROM THE SARASOTA BAY WATERSHED MODEL - MARCH 2017 (SARASOTA COUNTY), UNLESS OTHERWISE NOTED.

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ELEVATIONS BASED ON NGVD 29 VERTICAL DATUM

FLIGHT DATE: 04/16/13

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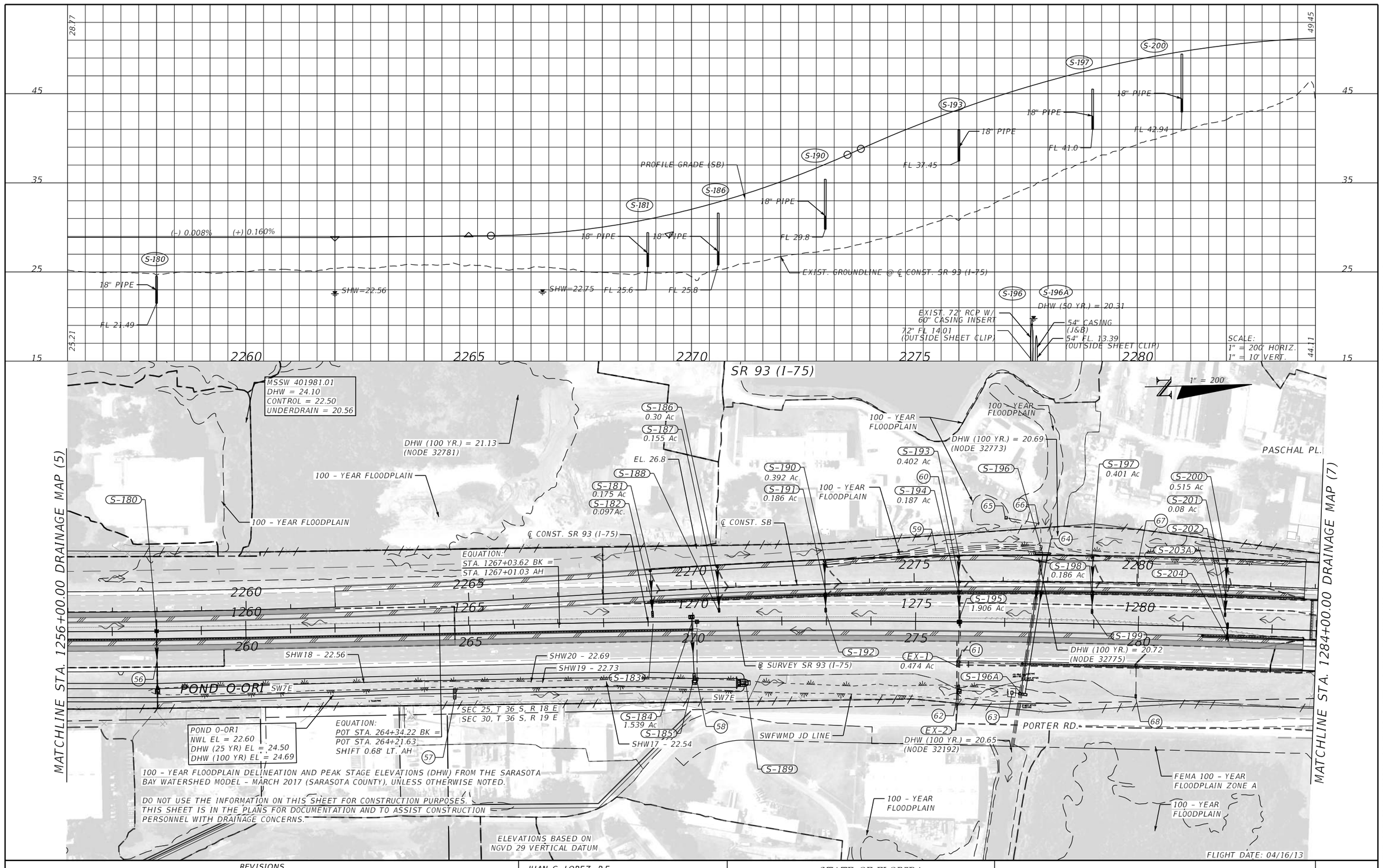
SR 93	SARASOTA	201277-5-52-01

DRAINAGE MAP (5)

SHEET NO. 36



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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-5-52-01

DRAINAGE MAP (6)

SHEET NO. 37

1 BEGIN SB BRIDGE (NO. 170179) STA. 2284+06.50 ℄ CONST. SB
2 END SB BRIDGE (NO. 170179) STA. 2285+51.50 ℄ CONST. SB
3 BEGIN NB BRIDGE (NO. 170082) STA. 1284+01.60 ℄ CONST. NB
4 END NB BRIDGE (NO. 170082) STA. 1285+37.29 ℄ CONST. NB

PALMER BLVD.
42" PIPE
S-205
18" PIPE
FL 42.96
S-209
18" PIPE
FL 41.0
S-212
18" PIPE
FL 37.47
S-218
18" PIPE
FL 30.19
PROFILE GRADE (SB)
EXIST. GROUNDLINE @ ℄ CONST. SR 93 (I-75)
S-221
18" PIPE
FL 27.4
S-229
18" PIPE
DHW (50 YR.) = 24.98
FL 27.3
SHW=24.22
42" CASING (J&B)
FL. 19.42
EXIST. 60" RCP W/ 48" CASING INSERT
S-226
FL 19.97
S-226A
S-230A
EXIST. 24" PIPE
(2) 24" PIPE
FL 21.85
FL 21.85
FL 21.73
S-208A
DHW (50 YR.) = 24.11
EXIST. 42" RCP W/ 30" CASING INSERT
SHW=21.12
36" CASING (J&B)
FL 19.05
S-208
FL 19.59
44.11
49.45
30.25
28.13
2310
SCALE:
1" = 200' HORIZ.
1" = 10' VERT.
1" = 200'

MATCHLINE STA. 1284+00.00 DRAINAGE MAP (6)

PALMER BLVD.
DHW (100 YR.) = 24.46 (NODE 32770)
SHW27 - 21.04
ERP 476227
SHW = 24.00
CONTROL1 = 24.50
CONTROL2 = 24.83
CONTROL3 = 24.37
WEIR1 = 26.20
WEIR2 = 26.77
DHW100 = 27.60
100 - YEAR FLOODPLAIN
SWFWMD JD LINE
S-209 0.40 Ac
S-210 0.188 Ac
S-211
S-212 0.273 Ac
S-213 0.129 Ac
S-214
S-205 0.468 Ac
S-206 0.105 Ac
S-208
S-208A
S-983
S-984
S-985
SW13W
S-207
SHW22 - 21.12
DHW (100 YR.) = 22.86 (NODE 32211)
S-208B
S-214A
S-987
S-986
SEC 25, T 36 S, R 18 E
SEC 30, T 36 S, R 19 E
SW8E
SHW21 - 21.08
SHW23 - 21.55
FEMA 100 - YEAR FLOODPLAIN ZONE A
SWFWMD JD LINE
FEMA 100 - YEAR FLOODPLAIN ZONE A
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SEC 30, T 36 S, R 19 E
SEC 19, T 36 S, R 19 E
BELL RD
S-215 1.957 Ac
EL. 25.3
S-216 0.123 Ac
S-217
ERP 4616586
SHW = 21.00
DHW25 = 23.08
DHW100 = 23.90
S-218 0.394 Ac
S-219 0.185 Ac
S-220
S-221 0.385 Ac
S-222 0.189 Ac
S-223
S-224
POND P1-OR1
NWL EL = 23.60
DHW (25 YR) EL = 25.05
DHW (100 YR) EL = 25.17
SR 93 (I-75)
DHW (100 YR.) = 25.02 (NODE 32768)
S-226A
℄ CONST. SB
SEC 25, T 36 S, R 18 E
SEC 24, T 36 S, R 18 E
S-229 0.158 Ac
SW12W
SWFWMD JD LINE
S-228 0.089 Ac
℄ CONST. SR 93 (I-75)
SEC 24, T 36 S, R 18 E
SEC 19, T 36 S, R 19 E
℄ SURVEY SR 93 (I-75)
S-226 1.453 Ac
POND P2-OR1
SW9E
S-229B
S-229A
SHW24 - 23.34
DHW (100 YR.) = 25.03 (NODE 32214)
SHW25 - 24.22
S-226B
S-225
SWFWMD JD LINE
POND P2-OR1
NWL EL = 23.80
DHW (25 YR) EL = 25.26
DHW (100 YR) EL = 25.32
EL. 24.6
100 - YEAR FLOODPLAIN DELINEATION AND PEAK STAGE ELEVATIONS (DHW) FROM THE SARASOTA BAY WATERSHED MODEL - MARCH 2017 (SARASOTA COUNTY), UNLESS OTHERWISE NOTED.
ELEVATIONS BASED ON NGVD 29 VERTICAL DATUM
ERP #400477.01
DHW 100 YR. = 25.65
SHW = 22.50
WEIR = 24.70
SW11W
EL. 25.1
100 - YEAR FLOODPLAIN
SWFWMD JD LINE
S-230 0.158 Ac
S-231
S-232
SW10E
SWFWMD JD LINE
FLIGHT DATE: 04/16/13

MATCHLINE STA. 1312+00.00 DRAINAGE MAP (8)

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P.E. LICENSE NUMBER 41084
HDR Engineering, Inc.
4830 Kennedy Blvd., Suite 400
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-5-52-01

DRAINAGE MAP (7)

SHEET NO. 38

A — END CONSTRUCTION (SB)
STA. 1315+70.00. 55.07' LT.
℄ CONST. SR 93 (I-75) =
STA. 2315+77.83 ℄ CONST. SB

B — END CONSTRUCTION (NB)
STA. 1321+00.00 ℄ CONST. SR 93 (I-75) =
STA. 321+00.00 ℄ SURVEY SR 93 (I-75)

EXIST. GROUNDLINE @ ℄ CONST. SR 93 (I-75)

DHW (50 YR.) = 20.28

60" RCP

FRUITVILLE RD.

SR 93 (I-75)

FRUITVILLE RD. (SR 780)

SCALE:
1" = 200' HORIZ.
1" = 10' VERT.
1" = 200'

MATCHLINE STA. 1312+00.00 DRAINAGE MAP (7)

DHW (100 YR.) = 23.17
(NODE 32760)

322

306

℄ CONST. SB

℄ CONST. SR 93 (I-75)

SEC 24, T 36 S, R 18 E
SEC 19, T 36 S, R 19 E

℄ SURVEY SR 93 (I-75)

100 – YEAR FLOODPLAIN DELINEATION AND PEAK STAGE ELEVATIONS (DHW) FROM THE SARASOTA BAY WATERSHED MODEL – MARCH 2017 (SARASOTA COUNTY), UNLESS OTHERWISE NOTED.

100 – YEAR FLOODPLAIN
DHW (100 YR.) = 22.29
(NODE 32120)

307

DHW (100 YR.) = 20.86
(NODE 32226)

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ELEVATIONS BASED ON NGVD 29 VERTICAL DATUM

FLIGHT DATE: 04/16/13

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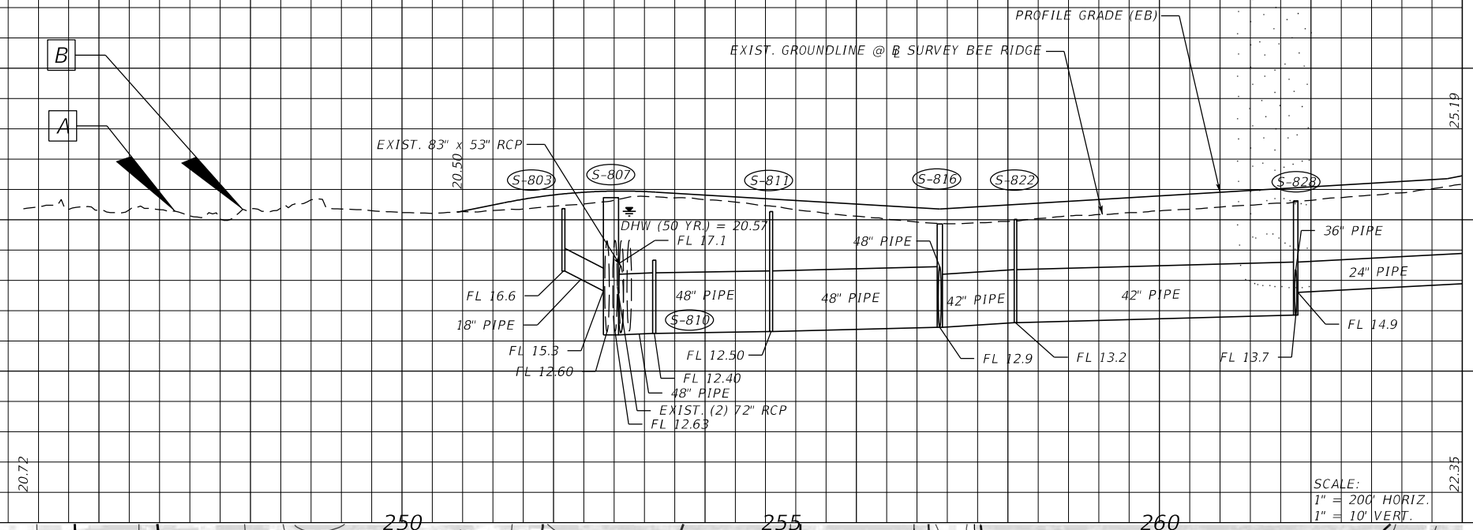
SR 93	SARASOTA	201277-5-52-01

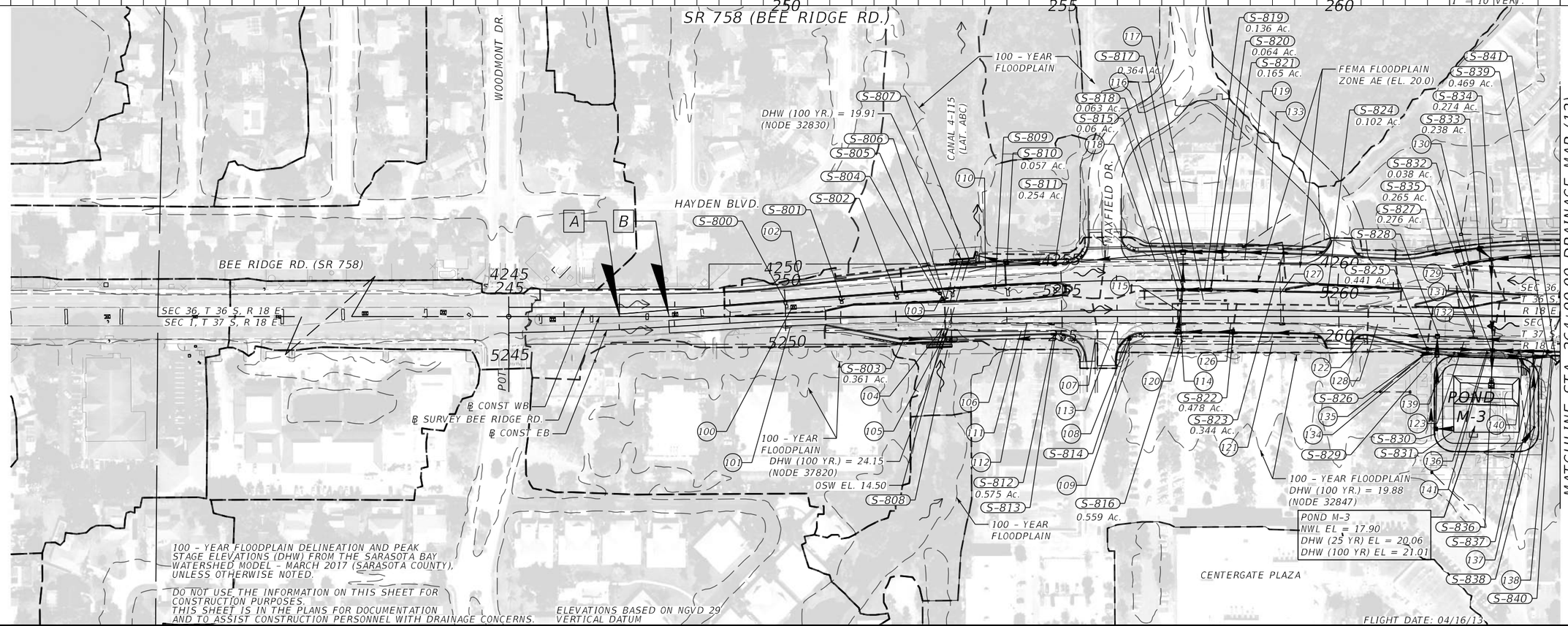
DRAINAGE MAP (8)

SHEET NO. 39

A BEGIN CONSTRUCTION (WB)
STA. 247+00.00, 17.00' LT.
℄ SURVEY BEE RIDGE RD. =
STA. 4247+00.00 ℄ CONST. WB

B BEGIN CONSTRUCTION (EB)
STA. 247+89.76, 18.45' RT.
℄ SURVEY BEE RIDGE RD. =
STA. 5247+90.00 ℄ CONST. EB





MATCHLINE STA. 264+00.00 DRAINAGE MAP (12)

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SR 93	SARASOTA	201277-5-52-01

DRAINAGE MAP (9)

SHEET NO. 40

A END CONSTRUCTION (EB)
STA. 299+78.90, 9.82' LT.
℄ SURVEY BEE RIDGE RD. =
STA. 5299+80.58 ℄ CONST. EB

B END CONSTRUCTION (WB)
STA. 299+87.20, 31.82' LT.
℄ SURVEY BEE RIDGE RD. =
STA. 4299+90.00 ℄ CONST. WB

EXIST. GROUNDLINE @ ℄ SURVEY BEE RIDGE
PROFILE GRADE (EB)
S-889 S-901 S-905 S-908
26.73 27.19
18" PIPE
DHW (50 YR.) = 22.23
S-895 S-899
FL 22.2
EXIST. (2) 10' H x 12' W CBC
FL 18.0
FL 15.5
FL 17.5
FL 15.0
FL 12.75
FL 10.24
FL 10.21
FL 10.2
S-891
FL 21.1
FL 21.3
A
B
30 20 10 0
295 300 305

SCALE:
1" = 200' HORIZ.
1" = 10' VERT.

MATCHLINE STA. 287+00.00 DRAINAGE MAP (3)

SR 758 (BEE RIDGE RD.)
100 - YEAR FLOODPLAIN
DHW (100 YR.) = 22.32 (NODE 33514)
S-888 0.536 Ac.
S-890 S-892 0.099 Ac. S-893 0.113 Ac. S-896 0.602 Ac. S-897 0.265 Ac. S-900 0.141 Ac. S-907 0.41 Ac. S-903 S-904 0.339 Ac.
ERP #4317503.004
CONTROL = 22.00
DHW = 23.30
TOB = 23.70
ERP 4317503.008
CONTROL STRUCTURE
TOB = 24.50
NOTCH = 22.97
INV. = 21.20
DHW25 = 24.68
DHW100 = 24.80
MAUNA LOA BLVD.
167 168 169 170 171 172 173 174 175 176 177
4290 5290 4295 5295 4300 5300
SEC 31, T 36 S, R 19 E
SEC 6, T 36 S, R 19 E
S-889 0.278 Ac. S-894 0.148 Ac. S-895 0.087 Ac. S-898 0.269 Ac. S-899 0.782 Ac. S-901 0.076 Ac. S-902 S-905 0.275 Ac. S-906 S-908 0.247 Ac. S-909
℄ CONST WB
℄ CONST EB
℄ SURVEY BEE RIDGE RD.
PHILLIPPI CREEK
DHW (100 YR.) = 22.79 (NODE 33515)
SHW 14 - 17.05
FEMA REGULATED FLOODWAY 100 - YEAR EL. 21.0
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LAKE SARASOTA SUBDIVISION
POT
1" = 200'
N

100 - YEAR FLOODPLAIN DELINEATION AND PEAK STAGE ELEVATIONS (DHW) FROM THE SARASOTA BAY WATERSHED MODEL MARCH 2017 (SARASOTA COUNTY), UNLESS OTHERWISE NOTED.
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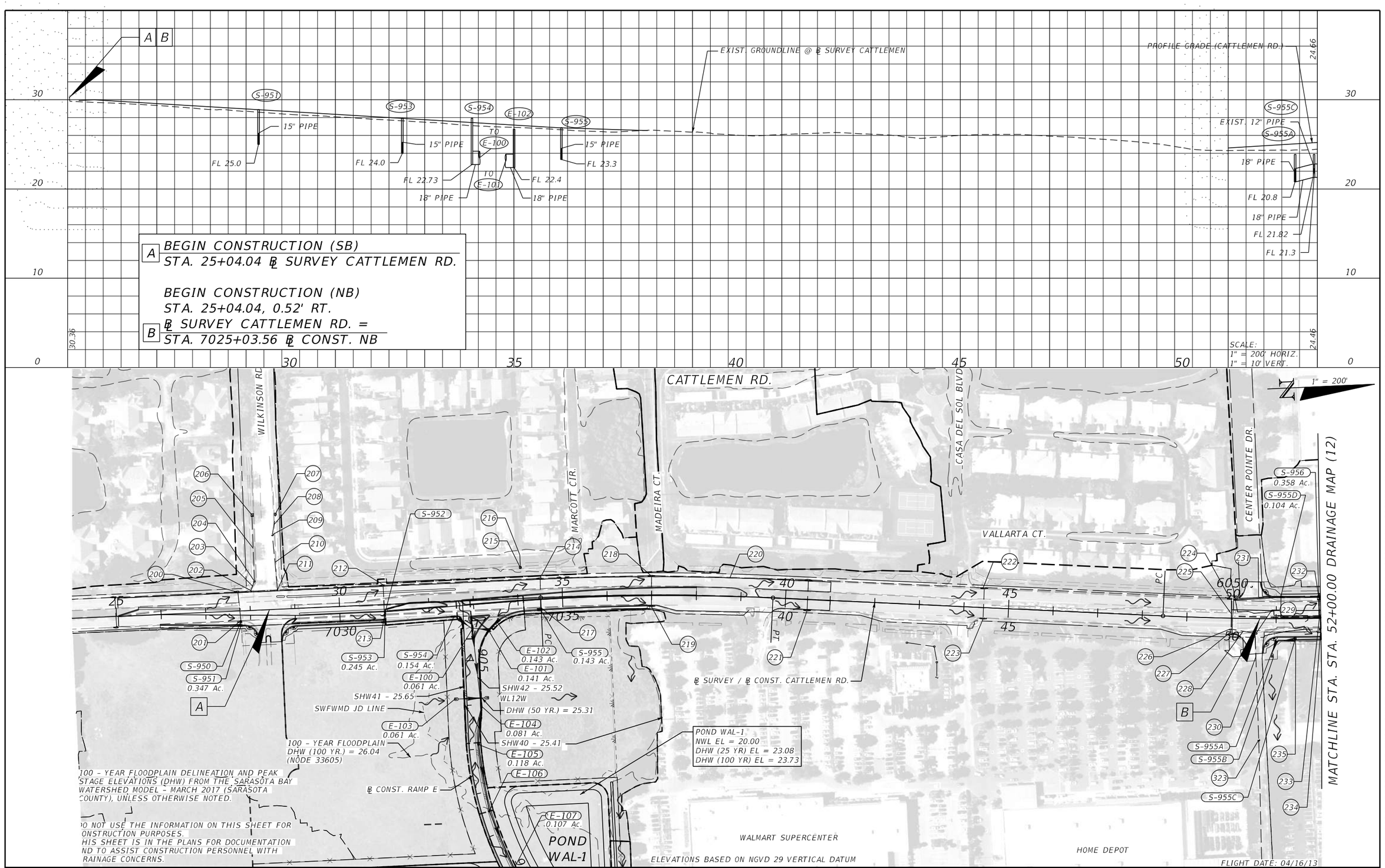
SR 93	SARASOTA	201277-5-52-01

DRAINAGE MAP (10)

SHEET NO. 41



MATCHLINE STA. STA. 52+00.00 DRAINAGE MAP (12)

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-5-52-01

DRAINAGE MAP (11)

SHEET NO. 42

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A END CONSTRUCTION (NB)
STA. 75+66.03, 4.14' LT.
℄ SURVEY CATTLEMEN RD. =
STA. 7075+66.44 ℄ CONST. NB

B END CONSTRUCTION (SB)
STA. 75+83.47, 19.37' LT.
℄ SURVEY CATTLEMEN RD. =
STA. 6075+82.54 ℄ CONST. SB

B BEGIN BRIDGE CULVERT
STA. 76+00.00 ℄ SURVEY CATTLEMEN RD.

C END BRIDGE CULVERT
STA. 76+26.69 ℄ SURVEY CATTLEMEN RD.

EXIST. GROUNDLINE @ ℄ SURVEY CATTLEMEN RD.
PROFILE GRADE (CATTLEMEN RD.)
UNKNOWN EXIST. PIPE TO REMAIN
UNKNOWN FL
FL 21.5
18" PIPE
FL 19.8
FL 19.2
FL 18.7
24" PIPE
FL 17.4
FL 17.1
TO S-968A
FL 18.3
FL 17.3
FL 17.1
FL 16.7
FL 16.23
EXIST. 36" PIPE
FL 17.5
FL 17.0
EXIST. (2) 12' W x 10' H CBC
DHW (50 YR.) = 19.67
FL = 9.89
FL = 9.81
S-958D
S-959
S-961
S-965
S-966
S-968A
S-970
S-973
S-977
S-978
S-980

24.66
24.46
22.32
30
20
10
0
55
60
65
70
75

SCALE:
1" = 200' HORIZ.
1" = 10' VERT.

CENTERGATE PLAZA
DHW (100 YR.) = 19.95
(NODE 33586)
CENTERGATE POND
NWL EL = 16.02
DHW (25 YR) EL = 20.92
℄ CONST. SB
℄ SURVEY / ℄ CONST. CATTLEMEN RD.
S-958E 0.06 Ac.
S-960 0.284 Ac.
S-963 0.192 Ac.
S-962 0.355 Ac.
S-967
S-843
S-845
S-846
S-847
MATCHLINE STA. 264+00.00
DRAINAGE MAP (9)
BEE RIDGE RD. (SR 758)
S-972 0.275 Ac.
S-971 0.195 Ac.
100 - YEAR FLOODPLAIN
S-969 0.107 Ac.
S-842 0.162 Ac.
S-844 0.176 Ac.
CATTLEMEN RD.
S-974
100 - YEAR FLOODPLAIN
MAXFIELD DR.
DOCTORS HOSPITAL
MSSW 406445.002 & 4011991.00
DOCTORS HOSPITAL POND
EFFLUENT TREATMENT - 0.13 AC.-FT.
BOT. EL. 14.0
SHWT EL. 13.0
CONTROL EL. 14.0
DHW 25 YR. EL. 16.25
TOB EL. 17.0
S-982
S-981 0.513 Ac.
100 - YEAR FLOODPLAIN
CANAL 4-86
FEMA REGULATED
FLOODWAY
100 - YEAR EL. 20.0
DHW (100 YR.) = 19.90
(NODE 33505)
PHILLIPPI CREEK
1" = 200'

MATCHLINE STA. 52+00.00 DRAINAGE MAP (11)
PT
6055
6060
6065
6070
6075
7060
7065
7070
7075
S-957
S-958 0.248 Ac.
S-958A 0.132 Ac.
S-959 0.175 Ac.
S-959A 0.177 Ac.
S-959B 0.303 Ac.
S-961C 0.137 Ac.
S-964I
S-964A
S-961B 0.137 Ac.
S-965 0.518 Ac.
S-965A 0.064 Ac.
S-966 0.71 Ac.
S-968
S-961A 0.278 Ac.
S-961 0.271 Ac.
S-960A
S-968A
POND M-4
POND M-4
NWL EL = 17.50
DHW (25 YR) EL = 21.23
DHW (100 YR) EL = 21.65
S-852 0.271 Ac.
S-851 0.576 Ac.
℄ CONST. EB
BEE RIDGE SQUARE
MATCHLINE STA. 270+00.00
DRAINAGE MAP (3)
S-849 0.199 Ac.
S-970 0.334 Ac.
EQUATION:
POT 1
STA. 64+18.57 BK =
STA. 64+18.77 AH
S-850 0.033 Ac.
S-852A 0.075 Ac.
S-853 0.154 Ac.
S-854 0.20 Ac.
℄ CONST. WB
℄ SURVEY BEE RIDGE RD.
KATIE LN.
S-976 0.067 Ac.
S-977 0.23 Ac.
S-973 0.249 Ac.
CATTLERIDGE BLVD.
S-980 0.33 Ac.
S-978
CATTLEMEN BUSINESS CENTER
DHW (100 YR.) = 20.08
(NODE 33506)
A
FIRM MAP NO. 12115C0162F
FEMA REGULATED FLOODWAY
100 - YEAR EL. 20.0
100 - YEAR FLOODPLAIN
PHILLIPPI CREEK
FLIGHT DATE: 04/16/13

100 - YEAR FLOODPLAIN DELINEATION AND PEAK STAGE ELEVATIONS (DHW) FROM THE SARASOTA BAY WATERSHED MODEL - MARCH 2017 (SARASOTA COUNTY), UNLESS OTHERWISE NOTED.

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

ELEVATIONS BASED ON NGVD 29 VERTICAL DATUM

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN C. LOPEZ, P.E.
P.E. LICENSE NUMBER 41084
HDR Engineering, Inc.
4830 Kennedy Blvd., Suite 400
Tampa, FL 33609-2548
CERTIFICATE OF AUTHORIZATION 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	201277-5-52-01

DRAINAGE MAP (12)

SHEET NO. 43

TTRAN 1/17/2019 5:00:39 PM PW:\007275\000000000212267\13.00_CAD\20127755201\drainage\DRMPRD03.DGN

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
INTELLIGENT TRANSPORTATION SYSTEMS (ITS)
LIGHTING PLANS
STRUCTURE PLANS

INDEX OF ROADWAY PLANS

STATE OF FLORIDA

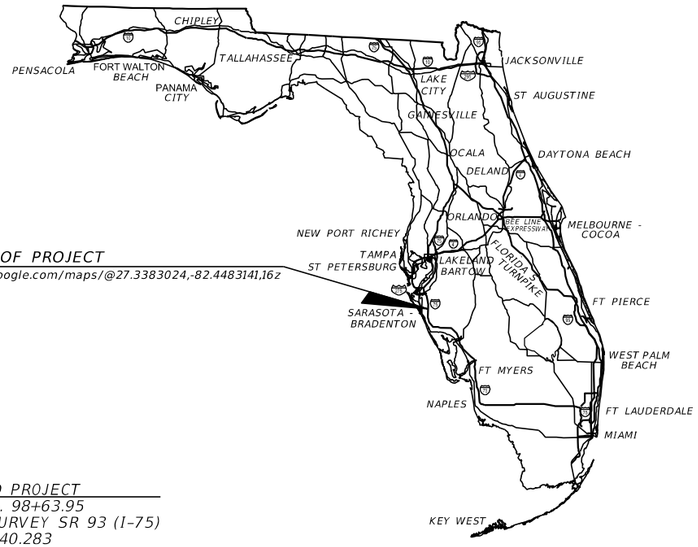
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

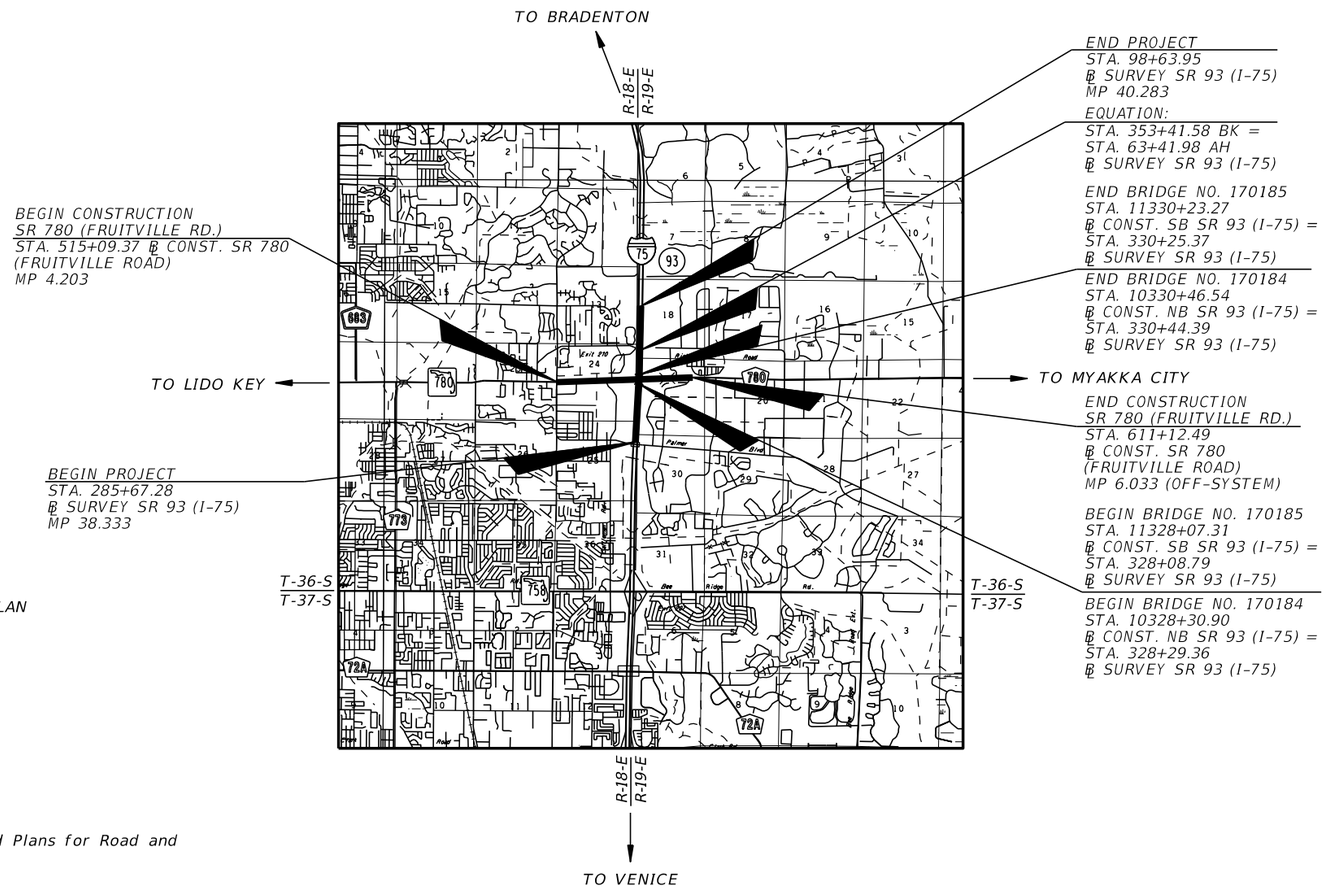
FINANCIAL PROJECT ID 420613-2-52-01

SARASOTA COUNTY (17075)

STATE ROAD NO. 93 (I-75)



LOCATION OF PROJECT
https://www.google.com/maps/@27.3383024,-82.4483141,16z



GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2021-22 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs: IR521-001-01, IR546-010-01

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2021 Standard Specifications for Road and Bridge Construction at the Following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

PHASE III SUBMITTAL
FEBRUARY 2020

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

ROADWAY PLANS ENGINEER OF RECORD:

STEVEN C. BRONZELL, P.E. NO.: 76425
BURGESS & NIPLE, INC.
10006 N. DALE MABRY HWY, SUITE 201
TAMPA, FL 33618
PHONE: (813) 962-8689
CONTRACT NO.: E-7146
VENDOR NO.: 310885550

FDOT PROJECT MANAGER:

BENJAMIN CLAYTON, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TXXXX	26	1

SCALE: 1" = 200' HORIZONTAL
1" = 10' VERTICAL
DATUM: NGVD 1929

BEGIN CONSTRUCTION
STA. 267+66.14
℄ SURVEY SR 93 (I-75)

BEGIN PROJECT
STA. 285+67.28
℄ SURVEY SR 93 (I-75)

BEGIN PGL SB SR 93 (I-75)
STA. 288+63.59 ℄ SURVEY SR 93 (I-75)

BEGIN RECONSTRUCTION NB SR 93 (I-75)
STA. 294+49.78 ℄ SURVEY SR 93 (I-75)

BEGIN RECONSTRUCTION SB SR 93 (I-75)
STA. 298+00.00 ℄ SURVEY SR 93 (I-75)

EQUATION:
10307+10.00 (BK.) =
10307+09.22 (AH.)

EXIST. GROUND PROFILE
@ ℄ CONSTRUCTION
NB I-75 (SR 93)

PGL SB I-75 (SR 93)

EXIST. GROUND PROFILE
@ ℄ CONSTRUCTION
SB I-75 (SR 93)

PGL NB I-75 (SR 93)

S-101 · 18" PIPE · FL 41.50
S-103 · 18" PIPE · FL 38.40
S-105 · 18" PIPE · FL 37.00
S-106 · 18" PIPE · FL 31.90
S-102 · 42" PIPE · DHW50 = 22.57 · FL. 18.94
S-107 · 18" PIPE · FL 28.70
DITCH (RT.) · FL 26.30
S-109 · 18" PIPE · FL 24.90
S-111 · 18" PIPE · FL 24.70
S-113 · 18" PIPE · FL 24.50
S-114 · 18" PIPE · FL 23.50
SHGWT AB-300R EL. 24.20
S-117 · 60" RCP · SHWL = 23.53 · DHW50 = 24.87 · FL 19.31
S-122 · 18" PIPE · FL 25.80
S-125 · 18" PIPE · FL 25.60
S-127 · 18" PIPE · FL 25.40
SHGWT AB-305L EL. 23.90
S-130 · 18" PIPE · FL 25.20
S-130A · 18" PIPE · FL 25.00
S-132 · 18" PIPE · FL 24.40
S-301 · 24" PIPE · SHWL = 22.70 · DHW50 = 20.21 · EL. 21.10 · FL 23.90

S25 - T36S - R18E
S24 - T36S - R18E
S30 - T36S - R19E
S19 - T36S - R19E

PACKING HOUSE
PARK OF COMMERCE
ERP #28673

BASIN 37880
(8.38 Ac.)

CAMPERLAND
OF SARASOTA
ERP #477

MATCHLINE STA. 284+00 DRAINAGE MAP (7)
OF SR 93 AT BEE RIDGE ROAD
ROADWAY PLANS (FPID 201277-5-52-01)

PALMER BLVD

SB SR 93 (I-75)

NB SR 93 (I-75)

EXIST. R/W LINE

EXIST. POND XX-XX
ERP# XXXXXXX
(TO BE REMOVED)

OSW 12B
SHW = 21.04

OSW 12A
SHW = 21.12
SHWL = 21.08

OSW 11B

OSW 11A
SHW = 24.51
SHW = 24.22
SHW = 23.34

OSW 10B

OSW 10A

4.83 Ac.
1.12 Ac.
0.61 Ac.
0.59 Ac.
0.64 Ac.
3.51 Ac.
0.53 Ac.
0.16 Ac.
0.13 Ac.
0.30 Ac.
0.15 Ac.
2.10 Ac.
0.51 Ac.
0.39 Ac.
0.42 Ac.
0.44 Ac.
0.47 Ac.
0.16 Ac.
0.89 Ac.
7.56 Ac.
0.32 Ac.
0.28 Ac.
0.13 Ac.
0.78 Ac.
0.84 Ac.
0.29 Ac.
0.22 Ac.
0.33 Ac.
0.25 Ac.
0.27 Ac.
0.14 Ac.
0.18 Ac.
0.17 Ac.

N 03° 51' 29" E

EQUATION:
Sta 10307+10.00 BK =
Sta 10307+09.22 AH

0 50 200
Feet

LEGEND
100-YR FLOODPLAIN

NOTE:
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BELL RD

SAWGRASS RD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID C. TYLER, P.E.
P.E. NO.: 74630
BURGESS & NIPLE INC.
10006 N. DALE MABRY HIGHWAY, SUITE 201
TAMPA, FL 33618

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

DRAINAGE MAP (1)
SR 93 (I-75)

SHEET NO. 17

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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SCALE: 1" = 200' HORIZONTAL
1" = 20' VERTICAL
DATUM: NGVD 1929

PGL NB I-75 (SR 93)
EXIST. GROUND PROFILE @ ℄ CONSTRUCTION NB I-75 (SR 93)
EXIST. GROUND PROFILE @ ℄ CONSTRUCTION SB I-75 (SR 93)
PGL SB I-75 (SR 93)
BEGIN SB BRIDGE STA. 328+08.79
END SB BRIDGE STA. 330+25.37
BEGIN NB BRIDGE STA. 328+29.36
END NB BRIDGE STA. 330+44.39
PI
STA. 329+17.10 ℄ SURVEY SR 93 (I-75) = STA. 569+60.75 ℄ CONST. SR 780 (FRUITVILLE ROAD)

S-133 S-133A S-134 S-135 S-138 S-139 S-140 S-140A S-144 S-146 S-147 S-202 S-204 S-207

24" PIPE FL 23.70 FL 21.50 FL 19.40 DITCH (RT.)
54" PIPE 24" PIPE 54" PIPE DITCH (RT.)
18" PIPE FL 32.10 FL 31.80 FL 34.10
24" PIPE FL 20.00 FL 19.20 FL 16.70 FL 11.50
24" PIPE FL 38.60 FL 39.10
18" PIPE FL 45.00 FL 43.70
54" PIPE 60" PIPE FL 11.30 FL 11.40
60" RCP SHWL = 20.93 DHW50 = 20.22
18" PIPE FL 46.80 FL 46.00
18" PIPE 18" PIPE FL 42.40

SHGWT AB-310R EL. 23.00
SHGWT AB-315L EL. 22.50
SHGWT AB-320R EL. 20.30
SHGWT AB-320L EL. 22.60
SHGWT AB-323R EL. 21.60
SHGWT AB-325L EL. 23.10
SHGWT AB-325R EL. 21.40
SHGWT AB-331R EL. 20.10
SHGWT AB-332L EL. 23.10
SHGWT AB-333R EL. 23.40
SHGWT AB-335R EL. 22.00
SHGWT AB-336L EL. 23.50

POND 200

33.36 29.58 29.89 45.55 39.18

0 310 315 320 325 330 335 0

2.10 Ac. 2.14 Ac. 1.11 Ac. 0.58 Ac. 0.24 Ac. 3.23 Ac. 2.50 Ac. 5.56 Ac. ℄ SURVEY SR 780 (FRUITVILLE ROAD) 1.24 Ac.

℄ CONST. RAMP B EXIST. R/W LINE 0.86 Ac. 0.37 Ac. 0.14 Ac. 0.47 Ac. 0.89 Ac. 0.79 Ac. 0.22 Ac. 0.31 Ac. 0.29 Ac. 0.29 Ac. 0.24 Ac. 0.29 Ac. 0.25 Ac. 0.32 Ac. 0.35 Ac. 1.75 Ac. 3.11 Ac. 2.37 Ac. 0.13 Ac. 0.23 Ac. 0.27 Ac. 0.23 Ac. 0.35 Ac. 0.29 Ac. 0.23 Ac. 0.58 Ac. 0.28 Ac. 0.30 Ac. 0.36 Ac. 0.18 Ac. 0.08 Ac. 0.69 Ac. 0.11 Ac. 0.13 Ac. 0.16 Ac. 0.11 Ac. 0.27 Ac. 2.25 Ac. 1.03 Ac.

℄ SURVEY SR 93 (I-75) ℄ CONST. SB SR 93 (I-75) SB SR 93 (I-75) NB SR 93 (I-75) ℄ CONST. NB SR 93 (I-75) INTERSTATE BLVD BR-232 ℄ CONST. RAMP A EXIST. R/W LINE 60" PIPE

RAMP A RAMP B RAMP C RAMP D

℄ CONST. RAMP C WETLAND 3 DHW100 = 22.42 ℄ CONST. SR 780 (FRUITVILLE ROAD) POND 100 NWL = 19.00 DHW25 = 24.44 DHW100 = 25.44 END SB BRIDGE STA. 330+22.10

BEGIN SB BRIDGE STA. 328+12.10 1.92 Ac.
BEGIN NB BRIDGE STA. 328+30.60
WETLAND 1 DHW100 = 20.95
POND 200 NWL = 18.40 DHW25 = 21.53 DHW100 = 22.05
WETLAND 2 DHW100 = 21.98
℄ CONST. RAMP D
END NB BRIDGE STA. 330+40+00
EXIST. R/W LINE
OSW 7 OSW 9A OSW 9B OSW 9C
BASIN 32117 7.75 Ac.
75 FRUITVILLE RD (SR 780)

S-304 S-305 S-306 S-307 S-308 S-309 S-310 S-311 S-312 S-401 S-402 S-403 S-404 S-405 S-406 S-407 S-408 S-409 S-410 S-411 S-412 S-413 S-414 S-415 S-416 S-417 S-418 S-419 S-420 S-421 S-422 S-503 S-502 S-778 S-615 S-616 S-617 S-600 S-601 S-602 S-603 S-604 CS-100 CS-101 S-206 S-201 S-203

190 191 148 144 145 146 147 149 150 141 142 143 151 152 153 085 086 086A 085A 087 088 089 090 092 080 081 076 077 078A 079 084 082A 083 098 098A

NOTE:
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0 50 200 Feet

LEGEND
100-YR FLOODPLAIN

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID C. TYLER, P.E.
P.E. NO.: 74630
BURGESS & NIPLE INC.
10006 N. DALE MABRY HIGHWAY, SUITE 201
TAMPA, FL 33618

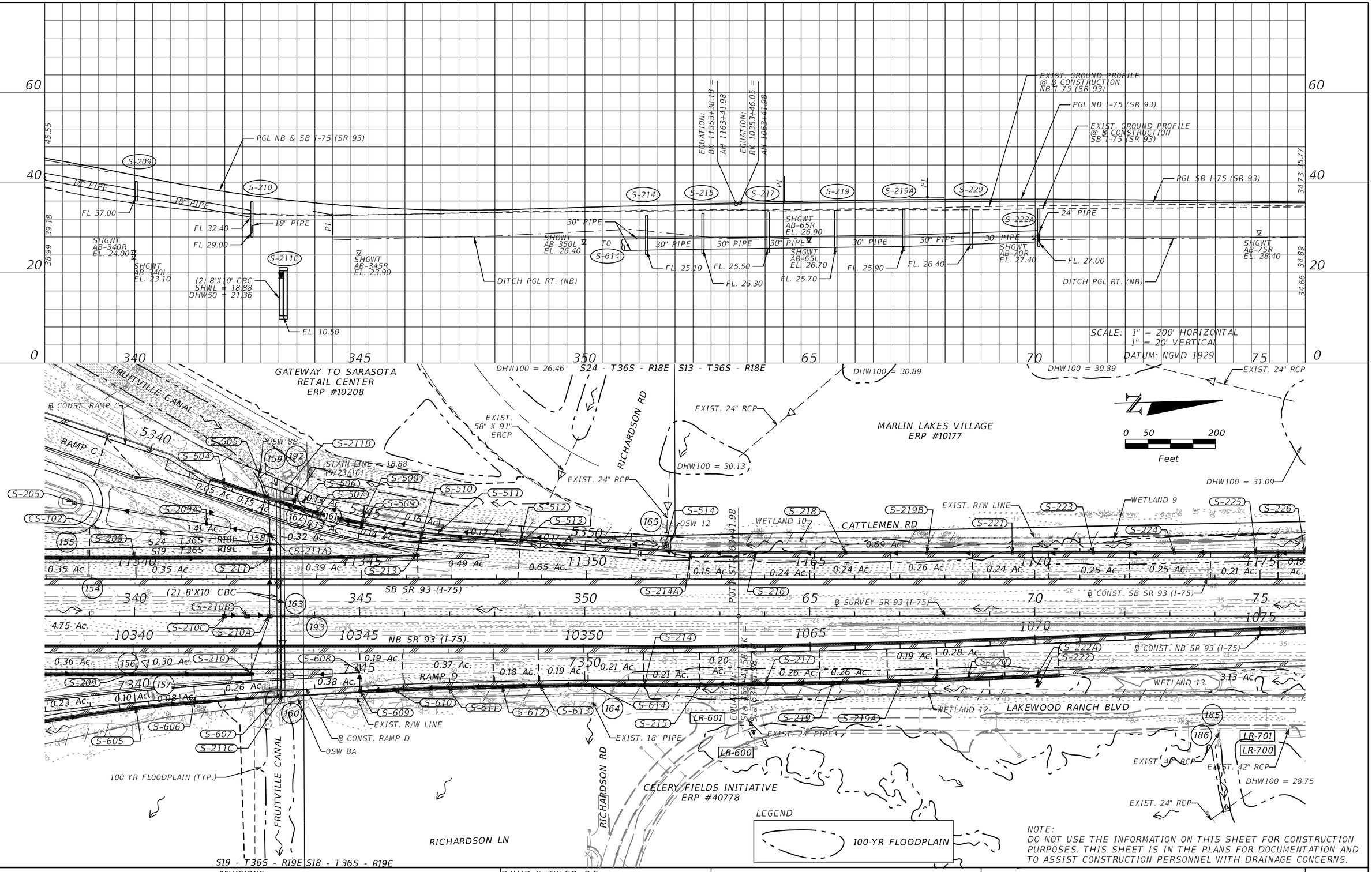
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

DRAINAGE MAP (2)
SR 93 (I-75)

SHEET NO. 18

Febre 1/13/2021 10:47:26 AM F:\Projects\42061325201\drainage\DRMPRD02.DGN



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID C. TYLER, P.E.
P.E. NO.: 74630
BURGESS & NIPLE INC.
10006 N. DALE MABRY HIGHWAY, SUITE 201
TAMPA, FL 33618

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

DRAINAGE MAP (3)
SR 93 (I-75)

SHEET NO. 19

Febre 1/13/2021 10:47:29 AM F:\Projects\42061325201\drainage\DRMPRD03.DGN

END CONSTRUCTION
STA. 109+70.00

PGL NB I-75 (SR 93)

END PGL NB SR 93 (I-75)
STA. 1078+00.00
℄ CONST. NB SR 93 (I-75)

EXIST. GROUND PROFILE
@ ℄ CONSTRUCTION
NB I-75 (SR 93)

END PGL SB SR 93 (I-75)
STA. 1187+50.00
℄ CONST. SB SR 93 (I-75)

EXIST. GROUND PROFILE
@ ℄ CONSTRUCTION
SB I-75 (SR 93)

PGL SB I-75 (SR 93)

END CONSTRUCTION NB SR 93 (I-75)
STA. 87+92.31

END PROJECT
END RECONSTRUCTION SB SR 93 (I-75)
STA. 98+63.95

35.77
34.89
34.73
34.66
34.93
34.60

S-230

SHGWT
AB-80R
EL. 27.90

DITCH PGL RT. (NB)

SHGWT
AB-85R
EL. 28.90

SHGWT
AB-90R
EL. 28.20

36" RCP
SHWL = 29.23
DHW50 = 29.36

SCALE: 1" = 200' HORIZONTAL
1" = 10' VERTICAL
DATUM: NGVD 1929

60 40 20 0 80 85 90 95 100

DHW100 = 31.48

SAN PALERMO
ERP #10177

S13 - T36S - R18E

BROWN LN

0 50 200
Feet

DHW100 = 31.09

WETLAND 8
SHW = 29.67
SHW = 29.61
SHW = 29.55

CATTLEMEN RD

POND R-0L1
NWL = 29.70
DHW25 = 31.45
DHW100 = 31.68

EXIST. R/W LINE

EXIST. POND R-0L1
ERP# 23484.03

END PROJECT
END RECONSTRUCTION SB SR 93 (I-75)
STA. 98+63.95

S-227A S-228 S-229 S-227 S-226

0.19 Ac. 0.21 Ac. 0.20 Ac. 0.20 Ac.

1180 1185 1190 1195

℄ CONST. SB SR 93 (I-75)

SB SR 93 (I-75)

℄ SURVEY SR 93 (I-75)

PC STA. 99+77.00

EXIST. POND R-M2
ERP# 23484.03
(TO BE REMOVED)

PT STA. 99+99.41

1080 1085

℄ CONST. NB SR 93 (I-75)

NB SR 93 (I-75)

3.13 Ac.

S-231

S-230

OSW 13

LAKEWOOD RANCH BLVD

END CONSTRUCTION NB SR 93 (I-75)
STA. 1087+92.02

EXIST. 36" RCP

EXIST. 42" RCP

LR-702

LR-703

EXIST. R/W LINE

END CONSTRUCTION
STA. 109+70.00

END RECONSTRUCTION NB SR 93 (I-75)
STA. 1076+50.55

DHW100 = 31.09

DOLOMITE UTILITIES

LEGEND

100-YR FLOODPLAIN

CHURCH OF HOPE
ERP #27276

EXIST. 24" RCP

S18 - T36S - R19E

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID C. TYLER, P.E.
P.E. NO.: 74630
BURGESS & NIPLE INC.
10006 N. DALE MABRY HIGHWAY, SUITE 201
TAMPA, FL 33618

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

DRAINAGE MAP (4)
SR 93 (I-75)

SHEET NO. 20

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BEGIN CONSTRUCTION
STA. 515+09.37

EXIST. GROUND PROFILE
@ ℄ CONSTRUCTION
FRUITVILLE ROAD (SR 780)

EXIST. 18" RCP

EXIST. FL 22.85

54" RCP
SHWL = 19.24
DHW50 = 22.82

48" RCP
SHWL = 19.18
DHW50 = 22.82

EXIST. FL. 17.56

EXIST. FL. 18.06

S-712 S-713 S-717 S-720

18" PIPE

FL 22.70 FL 22.80

18" PIPE

FL 22.20 FL 22.00

18" PIPE

FL 21.80

FL 20.10

36" RCP
SHWL = 16.47
DHW50 = 22.71

EXIST. FL. 17.42

18" PIPE

FL 16.60

30 25 20 15

500 505 510 515 520 525

SCALE: 1" = 200' HORIZONTAL
1" = 5' VERTICAL

DATUM: NGVD 1929

NOTE:
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BIG JIM'S SELF STORAGE
ERP #27854

COMCAST ADDITION
ERP #13126

RICHARDSON WAY

HONORE AVE

EXIST. R/W LINE

BASIN 32726
(21.98 Ac.)

EX POND 1
NWL = 23.07
DHW25 = 22.56
DHW100 = 23.00

FRUITVILLE CANAL

OSW 1A

OSW 1B

FRUITVILLE CANAL

0 50 200
Feet

SABAL BANK
ERP #27854

BASIN 32616
(18.21 Ac.)

BEGIN CONSTRUCTION
STA. 515+09.37

℄ CONST. SR 780 (FRUITVILLE ROAD)

℄ SURVEY SR 780 (FRUITVILLE ROAD)

SR 780 (FRUITVILLE RD)

001 01A 003 008 009 018 019 020 021 022 21A 22A 023 024 025

S-710 S-711 S-712 S-713 S-714 S-715 S-716 S-717 S-718 S-719 S-720

0.24 Ac. 0.15 Ac. 0.16 Ac. 0.16 Ac. 0.17 Ac. 0.16 Ac. 0.12 Ac. 0.10 Ac. 17A Ac. 0.25 Ac. 0.17 Ac. 0.07 Ac. 0.31 Ac.

36" PIPE 0.06 Ac.

0.12 Ac. 0.09 Ac. 0.16 Ac. 0.14 Ac. 0.13 Ac. 0.18 Ac. 0.16 Ac.

0.49 Ac. 0.38 Ac. 0.38 Ac.

002 010 011 012 006 007 016 017 015 014 013 005 004

DHW100 = 24.37

BASIN 32629
(26.83 Ac.)

PALMS MEMORIAL PARK
ERP #20013

EXIST. R/W LINE

EXIST. R/W LINE

BASIN 32738
(38.13 Ac.)

SARASOTA TOWNE CENTER
ERP #1703

BASIN 32614
(28.39 Ac.)

LEGEND

100-YR FLOODPLAIN

215 220 105 110 115

S23 - T36S - R18E S24 - T36S - R18E

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID C. TYLER, P.E.
P.E. NO.: 74630
BURGESS & NIPLE INC.
10006 N. DALE MABRY HIGHWAY, SUITE 201
TAMPA, FL 33618

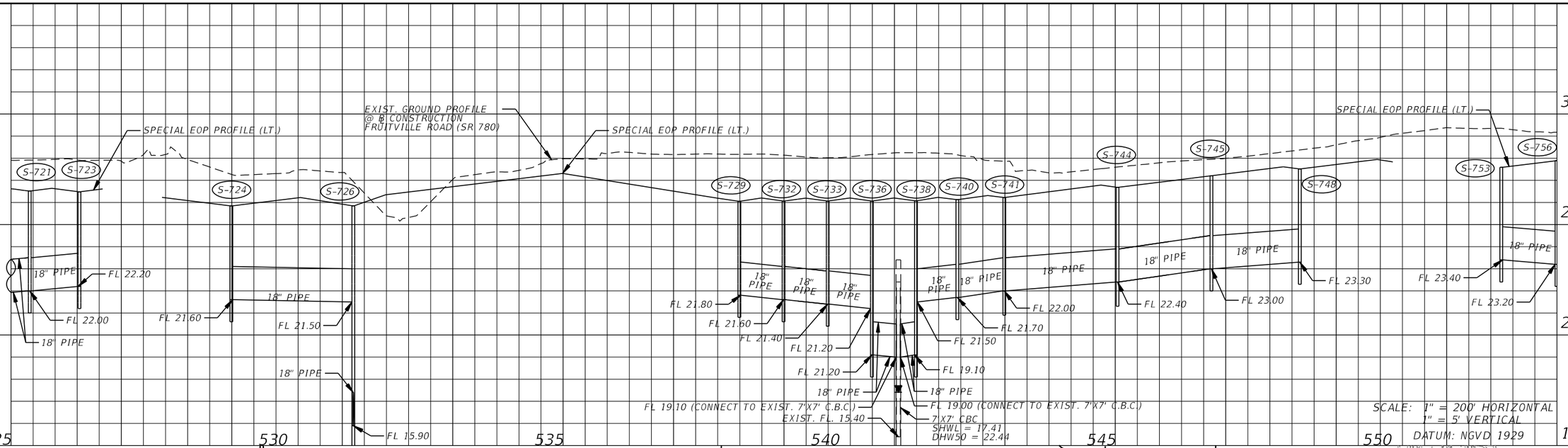
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

DRAINAGE MAP (5)
SR 780 (FRUITVILLE RD.)

SHEET NO. 21

Febre 1/13/2021 10:47:32 AM F:\Projects\42061325201\drainage\DRMPRD05.DGN



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID C. TYLER, P.E.
P.E. NO.: 74630
BURGESS & NIPLE INC.
10006 N. DALE MABRY HIGHWAY, SUITE 201
TAMPA, FL 33618

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

DRAINAGE MAP (6)
SR 780 (FRUITVILLE RD.)

SHEET NO. 22

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

BEGIN RECONSTRUCTION (RT)
STA. 559+80.85

BEGIN RECONSTRUCTION (LT)
STA. 560+42.81

END RECONSTRUCTION (LT)
STA. 566+59.82

END RECONSTRUCTION (RT)
STA. 568+25.81

BEGIN RECONSTRUCTION (LT)
STA. 572+85.86

BEGIN RECONSTRUCTION (RT)
STA. 574+51.85

END RECONSTRUCTION (LT)
STA. 581+22.85

EXIST. GROUND PROFILE @ ℄ CONSTRUCTION FRUITVILLE ROAD (SR 780)

MEDIAN TURN LANE PROFILE

SPECIAL EOP PROFILE (LT.)

PGL FRUITVILLE ROAD (SR 780) LT

PGL FRUITVILLE ROAD (SR 780) RT

S-756 S-759 S-760 S-763 S-765 S-768 S-772 S-774 S-775 S-776 S-501 S-781 S-782 S-783 S-784 S-787 S-789 S-791 S-794 S-798 S-799 S-801

FL 22.90 | 18" PIPE | FL 23.20 | SHGWT AB-147L EL. 21.40 | 18" PIPE | FL 22.70 | 18" PIPE | SHGWT AB-150R EL. 22.50 | FL 22.40 | 18" PIPE | SHGWT AB-151L EL. 20.40 | 24" PIPE | SHGWT AB-152L EL. 21.70 | FL 22.20 | FL 22.10 | 24" PIPE | SHGWT AB-155L EL. 23.40 | 24" PIPE | SHGWT AB-155R EL. 22.60 | FL 21.80 | FL 25.00 | 18" PIPE | 18" PIPE | FL 25.00 | FL 21.60 | 30" PIPE | 30" PIPE | 30" PIPE | FL 21.20 | FL 21.10 | 24" PIPE | 24" PIPE | 24" PIPE | 24" PIPE | FL 21.40 | 30" PIPE | FL 17.50 | FL 21.60 | FL 21.70 | FL 21.90 | FL 22.00 | 18" PIPE | FROM S-516 TO S-515 | RAMP D1 | SHGWT AB-165R EL. 21.70 | FL 22.20 | 18" PIPE | FL 24.20 | FL 23.90 | 30" PIPE | FL 20.30 | SHGWT AB-168L EL. 23.20 | 24" PIPE | FL 20.50 | 24" PIPE | SHGWT AB-170L EL. 19.70 | 18" PIPE | 18" PIPE | FL 20.80 | 18" PIPE | FL 21.00 | FL 21.30

30 25 20 15 — 555 560 565 570 575 580

SCALE: 1" = 200' HORIZONTAL
1" = 5' VERTICAL

DATUM: NGVD 1929

S24 - T36S - R18E ℄ 408+E S19 - T36S - R19E

COMMERCIAL WY

GATEWAY TO SARASOTA RETAIL CENTER ERP #10208

BASIN 32754 (30.50 Ac.)

EXIST. R/W LINE

FRUITVILLE CANAL

℄ CONST. RAMP C

POND 100
NWL = 19.00
DHW25 = 24.44
DHW100 = 25.44

WETLAND 3
DHW100 = 22.42

EXIST. POND A
DHW100 = 24.14
ERP #34927
(TO BE REMOVED)

END SB BRIDGE
STA. 11330+23.27

OSW 2D
DHW100 = 22.37

℄ SURVEY SR 780 (FRUITVILLE ROAD)

SR 780 (FRUITVILLE RD)

FRUITVILLE BUSINESS CENTER ERP #19709

BASIN 32765 (8.39 Ac.)

DHW100 = 25.39

EXIST. 19" X 30" ERCP

CATTLEMEN RD

BEGIN SB BRIDGE
STA. 11328+07.31

EXIST. R/W LINE

℄ CONST. RAMP B

RAMP C

RAMP B

SB I-75 (SR 93)

NB I-75 (SR 93)

RAMP D

RAMP A

END NB BRIDGE
STA. 10330+46.54

OSW 7
DHW100 = 21.69

WETLAND #2
DHW100 = 22.28

℄ CONST. RAMP D

EXIST. R/W LINE

℄ CONST. SR 780 (FRUITVILLE ROAD)

PGL LT.

PGL RT.

EXIST. POND B
DHW100 = 18.86
ERP #34927
(TO BE REMOVED)

POND 200
NWL = 18.40
DHW25 = 21.53
DHW100 = 22.05

WETLAND 1
DHW100 = 20.95

BEGIN NB BRIDGE
STA. 10328+30.90

OSW 3

EXIST. R/W LINE

℄ CONST. RAMP A

2.25 Ac. | 1.03 Ac. | 0.14 Ac. | 0.31 Ac. | 0.18 Ac. | 0.27 Ac. | 0.18 Ac. | 0.22 Ac. | 0.47 Ac. | 0.41 Ac. | 0.27 Ac. | 0.26 Ac. | 0.17 Ac. | 0.29 Ac. | 0.24 Ac. | 0.20 Ac. | 0.19 Ac. | 0.17 Ac. | 0.46 Ac. | 0.26 Ac. | 0.21 Ac. | 0.31 Ac. | 0.13 Ac. | 0.20 Ac. | 0.12 Ac. | 0.20 Ac. | 0.11 Ac. | 0.27 Ac. | 0.10 Ac. | 0.42 Ac. | 0.16 Ac. | 0.26 Ac. | 0.70 Ac. | 0.17 Ac. | 0.17 Ac. | 0.13 Ac. | 0.10 Ac. | 0.25 Ac. | 0.16 Ac. | 0.22 Ac. | 0.33 Ac. | 0.42 Ac. | 0.86 Ac. | 0.32 Ac. | 0.35 Ac. | 0.29 Ac. | 0.86 Ac. | 1.92 Ac.

555 560 565 570 575 580 155 160 170 325 330 335 430 435

NOTE:
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LEGEND

100-YR FLOODPLAIN

N

0 50 200
Feet

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID C. TYLER, P.E.
P.E. NO.: 74630
BURGESS & NIPLE INC.
10006 N. DALE MABRY HIGHWAY, SUITE 201
TAMPA, FL 33618

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

DRAINAGE MAP (7)
SR 780 (FRUITVILLE RD.)

SHEET NO. 23

Febre 1/13/2021 10:47:35 AM F:\Projects\42061325201\drainage\DRMPRD07.DGN

PGL FRUITVILLE ROAD (SR 780) RT
END RECONSTRUCTION (RT)
STA. 581+33.75
SPECIAL EOP PROFILE (LT.)
EXIST. GROUND PROFILE
@ ℄ CONSTRUCTION
FRUITVILLE ROAD (SR 780)
SPECIAL EOP PROFILE (LT.)
SPECIAL EOP PROFILE (LT.)
END CONSTRUCTION
STA. 611+12.49
℄ CONST. SR 780 (FRUITVILLE RD.)
SPECIAL EOP PROFILE (LT.)

S-804 S-806 S-809 S-813 S-811 S-815 S-816 S-819 S-820 S-823 S-824 S-827 S-829 S-830 S-832

18" PIPE
FL 21.80
FL 22.20
FL 22.50
FL 21.10
FL 21.50
FL 21.70
FL 21.50
FL 21.20
FL 20.80
FL 20.60
FL 20.30
FL 18.30
24" PIPE
FL 18.90
FL 18.44
FL 18.90

SHGWT
AB-175L
EL. 20.10
48" STEEL PIPE
DHW50 = 20.22
SHGWT
AB-180L
EL. 18.00
FL. 15.50
DITCH PROFILE (LT.)
(4) 9'X9' CBC
SHWL = 16.87
DHW50 = 21.25
SHGWT
AB-189R
EL. 18.50

25 20 15 10
585 590 595 600 605

SCALE: 1" = 200' HORIZONTAL
1" = 5' VERTICAL
DATUM: NGVD 1929

S19 - T36S - R19E

COBURN RD
MAIN C CANAL
DHW100 = 21.71
OSW 7
DHW100 = 21.69
EXIST. R/W LINE
OSW 4B
(4) 9'X9' CBC
OSW 6
OSW 5
EXIST. POND X-XX
ERP# XXXXXXXX
TO BE REMOVED)
FUT. LAKEWOOD RANCH BLVD ALIGNMENT/EXTENSION
(TO BE DONE BY OTHERS)
℄ CONST. SR 780 (FRUITVILLE ROAD)
℄ SURVEY SR 780 (FRUITVILLE ROAD)
LR-97 LR-99 LR-96 LR-98 LR-100 LR-101A LR-103A LR-101 LR-103 LR-105 LR-106 LR-104 LR-102

0 50 200
Feet

S-804 S-857 S-807 S-806 S-813 S-815 S-816 S-819 S-820 S-824 S-827 S-829 S-830 S-831 S-832 S-833

099 102 103 104 106 107 173

0.80 Ac. 0.24 Ac. 0.29 Ac. 0.22 Ac. 0.46 Ac. 0.18 Ac. 0.21 Ac. 0.24 Ac. 0.48 Ac. 0.23 Ac. 0.24 Ac. 0.45 Ac. 0.28 Ac. 0.21 Ac.
585 590 595 600 605 610

SR 780 (FRUITVILLE RD)

S-810 S-805 S-802 S-803 S-808 S-812 S-814 S-817 S-818 S-821 S-822 S-825 S-826 S-828 S-834 S-835

99A 99B 100 101 105 108 109 174 175 176

0.15 Ac. 0.17 Ac. 0.43 Ac. 0.31 Ac. 0.28 Ac. 0.34 Ac. 0.17 Ac. 0.18 Ac. 0.22 Ac. 0.26 Ac. 0.36 Ac. 0.35 Ac. 0.21 Ac. 0.40 Ac. 0.24 Ac.
175 180 185 190 195 200 205

EXIST. R/W LINE
OSW 3
OSW 4A
WETLAND 4
DHW100 = 21.19
CELERY FIELDS INITIATIVE
ERP #40778
FRUITVILLE
LIBRARY
COBURN RD
END CONSTRUCTION
STA. 611+12.49
℄ CONST. SR 780 (FRUITVILLE RD.)
SWFWMD
℄ CONST. SR 780 (FRUITVILLE ROAD)
℄ SURVEY SR 780 (FRUITVILLE ROAD)

LEGEND
100-YR FLOODPLAIN

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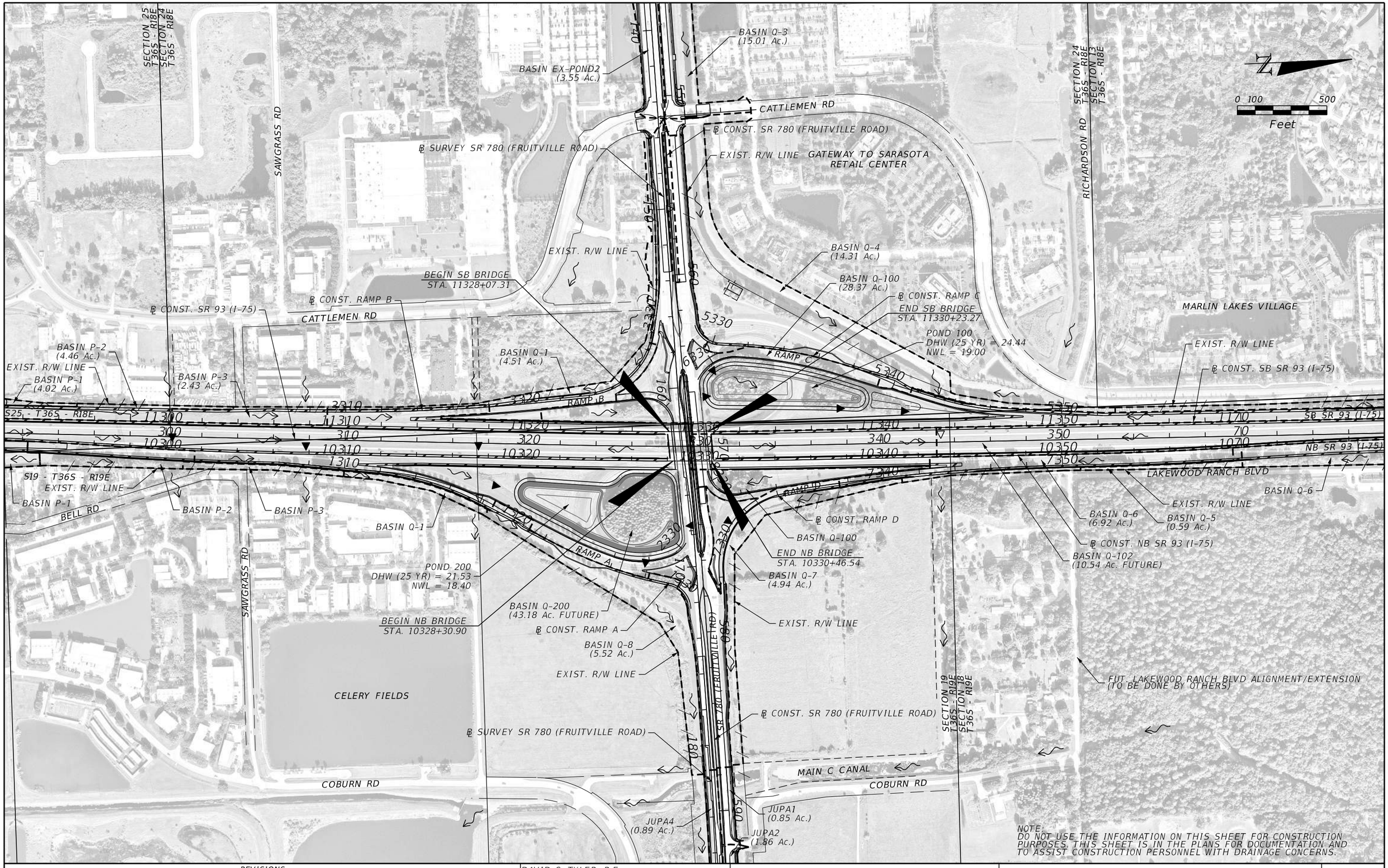
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

DRAINAGE MAP (8)
SR 780 (FRUITVILLE RD.)

SHEET NO. 24

Febre 1/13/2021 10:47:38 AM F:\Projects\42061325201\drainage\DRMPRD08.DGN



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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

INTERCHANGE DRAINAGE MAP
SR 93 & SR 780

SHEET NO. 25

001
STA 513+71.86, 323.55 LT
WINGWALL
S FL 17.35

01A
STA 514+97.36, 161.37 LT
WINGWALL
N FL 17.38

002
STA 513+52.69, 105.69 RT
CONTROL STRUCTURE
NE FL 17.89 (54" RCP)

003
STA 515+49.85, 128.92 LT
ENDWALL
SW FL 17.16 (54" RCP)

004
STA 513+67.25, 432.20 RT
HEADWALL
E FL 20.77 (42" RCP)

005
STA 514+70.99, 407.95 RT
MANHOLE
W FL 20.67 (42" RCP)
N FL 20.39 (42" RCP)

006
STA 514+74.62, 134.10 RT
MANHOLE
S FL 19.26 (42" RCP)
NE FL 19.22 (48" RCP)

007
STA 515+43.13, 74.65 RT
MANHOLE
SW FL 18.16 (48" RCP)
N FL 18.46 (48" RCP)

008
STA 515+56.03, 126.49 LT
ENDWALL
N FL 17.35 (48" RCP)

009
STA 515+56.03, 123.84 LT
CURB INLET
N FL 23.17 (18" RCP)

010
STA 515+19.19, 63.69 RT
CURB INLET
N FL 22.55 (18" RCP)
SW FL 22.53 (18" RCP)

011
STA 514+88.27, 95.62 RT
CURB INLET
NE FL 22.16 (18" RCP)
SW FL 22.06 (18" RCP)

012
STA 514+72.19, 111.51 RT
MANHOLE
N FL 21.87 (18" RCP)
S FL 21.84 (18" RCP)

013
STA 514+01.65, 163.43 RT
MANHOLE
NE FL (18" RCP)
W FL (24" RCP)

014
STA 513+78.46, 162.96 RT
CURB INLET
E FL 19.99 (24" RCP)
W FL 19.83 (24" RCP)

015
STA 513+57.97, 162.89 RT
MES
W FL 20.50 (24" RCP)

016
STA 518+51.79, 85.00 RT
MES
E FL 21.93 (18" RCP)

017
STA 520+94.89, 89.68 RT
GRATE INLET
N FL 18.79 (36" RCP)
E FL 18.84 (18" RCP)
W FL 18.89 (36" RCP)

17A
STA 520+83.26, 2.81 RT
GRATE INLET
E FL 24.03 (18" RCP)

018
STA 520+72.67, 92.45 LT
GRATE INLET
E FL 16.87 (24" RCP)

019
STA 520+94.35, 92.86 LT
GRATE INLET
W FL 16.70 (24" RCP)
S FL 16.02 (36" RCP)
N FL 16.02 (36" RCP)

020
STA 520+94.89, 122.16 LT
ENDWALL
N FL 15.88 (36" RCP)

021
STA 521+89.99, 129.81 LT
HEADWALL
E FL 15.01 (144" X 90" CMP)
E FL 15.32 (144" X 90" CMP)

21A
STA 522+68.63, 131.37 LT
HEADWALL
W FL 14.73 (144" X 90" CMP)
W FL 14.74 (144" X 90" CMP)

022
STA 521+78.71, 97.41 LT
MES
E FL 19.49 (24" RCP)

22A
STA 522+89.29, 99.51 LT
MES
W FL 19.31 (24" RCP)

023
STA 523+59.02, 1.73 RT
GRATE INLET
W FL 23.04 (18" RCP)

024
STA 522+85.88, 89.68 RT
GRATE INLET
W FL 19.10 (36" RCP)
E FL 19.39 (36" RCP)

025
STA 523+70.31, 96.44 RT
GRATE INLET
W FL 18.73 (36" RCP)
E FL 18.77 (36" RCP)

026
STA 527+06.10, 131.46 LT
HEADWALL
E FL 14.25 (144" X 90" CMP)
E FL 14.25 (144" X 90" CMP)

26A
STA 527+79.99, 133.24 LT
HEADWALL
W FL 14.18 (144" X 90" CMP)
W FL 14.13 (144" X 90" CMP)

027
STA 526+96.77, 101.10 LT
MES
E FL 18.81 (24" RCP)

27A
STA 527+97.28, 102.42 LT
MES
W FL 18.89 (24" RCP)

028
STA 526+53.49, 96.44 RT
GRATE INLET
W FL 18.91 (36" RCP)
E FL 18.99 (36" RCP)

029
STA 527+30.44, 143.90 RT
MANHOLE
S FL 19.15 (43" X 27" CMP)
NE FL 19.02 (43" X 27" CMP)

030
STA 527+59.59, 121.72 RT
GRATE INLET
N FL 18.63 (36" RCP)
SW FL 18.79 (43" X 27" CMP)

031
STA 527+58.25, 95.70 RT
GRATE INLET
W FL 18.70 (36" RCP)
E FL 18.90 (24" CMP)
S FL 18.82 (36" RCP)

032
STA 528+02.24, 111.48 RT
GRATE INLET
NW FL 19.02 (24" RCP)
E FL 18.84 (24" CMP)

033
STA 529+30.59, 111.56 RT
GRATE INLET
W FL 18.98 (24" RCP)
E FL 18.93 (24" CMP)

034
STA 530+82.08, 111.02 RT
GRATE INLET
W FL 18.99 (24" RCP)
E FL 18.93 (24" CMP)

035
STA 532+32.38, 111.02 RT
GRATE INLET
W FL 19.01 (24" RCP)
E FL 18.88 (24" CMP)
N FL 19.15 (18" CMP)

036
STA 532+31.82, 1.78 RT
GRATE INLET
S FL 19.57 (18" RCP)

037
STA 533+82.07, 111.12 RT
GRATE INLET
W FL 18.80 (24" RCP)
E FL 18.63 (24" CMP)

038
STA 535+99.03, 111.44 RT
MES
W FL 18.97 (24" RCP)

039
STA 538+97.00, 110.74 RT
MES
E FL 19.43 (15" CMP)

39A
STA 539+66.87, 111.62 RT
MES
W FL 19.26 (15" CMP)

040
STA 540+24.72, 109.13 RT
GRATE INLET
NE FL 19.27 (30" RCP)

041
STA 541+31.82, 100.87 RT
ENDWALL
S FL 15.77 (7' X 7' CBC)

41A
STA 541+33.31, 115.66 LT
ENDWALL
N FL 15.40 (7' X 7' CBC)

042
STA 541+07.92, 101.04 LT
MES
E FL 19.29 (30" RCP)

42A
STA 541+57.55, 100.65 LT
MES
W FL 21.48 (30" RCP)

043
STA 542+20.39, 86.82 RT
CURB INLET
E FL 21.36 (24" RCP)

044
STA 544+75.89, 87.19 RT
CURB INLET
W FL 21.03 (24" RCP)
S FL 21.00 (38" X 24" RCP)

045
STA 544+80.86, 156.08 RT
MES
N FL 20.90 (38" X 24" RCP)

046
STA 545+20.84, 235.20 LT
BAFFLE INLET
S FL 18.38 (24" RCP)

047
STA 545+20.64, 185.85 LT
HEADWALL
N FL 16.58 (24" RCP)

048
STA 545+55.90, 122.47 LT
MES
S FL 18.03 (18" RCP)

049
STA 545+55.90, 122.47 LT
CATCH BASIN
N FL 18.44 (18" RCP)

050
STA 544+20.59, 5.75 LT
CURB INLET
E FL 21.03 (18" RCP)

051
STA 547+20.76, 5.60 LT
CURB INLET
W FL 22.64 (18" RCP)
E FL 22.52 (18" RCP)

052
STA 548+90.62, 5.84 LT
CURB INLET
W FL 22.19 (18" RCP)
SE FL 22.17 (18" RCP)

053
STA 549+41.17, 2.14 RT
MANHOLE
W FL 22.12 (18" RCP)
N FL 25.65 (10" CPP)
E FL 24.22 (24" RCP)
S FL 19.58 (30" RCP)

53A
STA 549+49.90, 4.49 LT
GRATE INLET
SW FL (10" CPP)

53B
STA 550+29.65, 4.47 LT
GRATE INLET
W FL (10" CPP)

054
STA 549+40.68, 74.80 RT
MANHOLE
N FL 19.30 (30" RCP)
SW FL 15.83 (30" RCP)
S FL 24.12 (15" CPP)

055
STA 550+23.34, 86.71 RT
GRATE INLET
W FL

056
STA 549+81.24, 86.61 RT
GRATE INLET
W FL

057
STA 548+97.18, 86.30 RT
GRATE INLET
E FL

058
STA 548+66.60, 86.11 RT
GRATE INLET
E FL

059
STA 547+99.59, 85.93 RT
GRATE INLET
E FL

060
STA 548+66.60, 167.55 RT
MES
N FL 17.15 (30" RCP)

60A
STA 547+21.04, 86.28 RT
CURB INLET
S FL 16.09 (18" RCP)

60B
STA 547+20.38, 147.60 RT
MES
N FL 17.15 (18" RCP)

061
STA 550+60.90, 100.16 LT
CURB INLET
NE FL 21.92 (15" RCP)

062
STA 550+53.69, 149.20 LT
HEADWALL
W FL 11.92 (12' X 12' CBC)

062A
STA 551+75.60, 149.72 LT
HEADWALL
E FL 12.24 (12' X 12' CBC)

063
STA 551+90.29, 133.25 LT
MES
SW FL 16.81 (15" RCP)

064
STA 551+70.84, 99.53 LT
CURB INLET
NE FL 21.43 (15" RCP)

065
STA 553+21.01, 7.66 RT
CURB INLET
W FL 24.43 (24" RCP)
E FL 25.22 (18" RCP)

066
STA 556+20.45, 10.01 RT
MANHOLE
W FL 25.96 (18" RCP)
E FL 26.02 (18" RCP)

067
STA 556+31.54, 88.79 RT
GRATE INLET
S FL 21.21 (18" RCP)

068
STA 556+31.54, 118.44 LT
HEADWALL
N FL 20.24 (18" RCP)

069
STA 559+20.79, 7.45 RT
CURB INLET
W FL 26.43 (24" RCP)

070
STA 560+20.76, 256.74 LT
MES
E FL 16.38 (30" CMP)

70A
STA 560+30.99, 247.12 LT
HEADWALL
W FL 19.30 (30" CMP)

071
STA 560+55.99, 220.54 LT
MES
SE FL 19.20 (30" RCP)

072
STA 560+99.96, 190.51 LT
CONTROL STRUCTURE
NW FL 19.56 (30" RCP)

073
STA 562+23.43, 150.91 LT
HEADWALL
E FL 20.80 (36" RCP)

074
STA 5328+73.88, 6.95 RT
GRATE INLET
W FL 25.99 (15" RCP)

075
STA 5329+80.27, 1.58 RT
GRATE INLET
E FL 22.44 (30" RCP)
W FL 22.53 (30" RCP)

076
STA 6330+49.08, 14.56 LT
ENDWALL
E FL 22.42 (30" RCP)

077
STA 6330+22.40, 14.09 LT
MES
W FL 26.12 (4" PVC)

078
STA 5332+69.68, 23.05 LT
GRATE INLET
E FL 26.02 (15" CMP)

78A
STA 5332+62.97, 0.00 LT
BAFFLE
W FL 24.55 (15" CMP)

079
STA 5332+68.05, 8.20 LT
MES
E FL 27.83 (4" PVC)

080
STA 5333+49.53, 266.23 RT
BAFFLE
NE FL 24.19 (15" CMP)

081
STA 5334+21.55, 297.37 RT
GRATE INLET
SW FL 37.95 (15" CMP)

082
STA 564+05.72, 78.67 RT
GRATE INLET
E FL 26.60 (19" X 12" RCP)

82A
STA 564+41.86, 81.02 RT
GRATE INLET
W FL 26.10 (19" X 12" RCP)

083
STA 3331+27.11, 20.43 LT
GRATE INLET
E FL 23.68 (19" X 12" RCP)

084
STA 3331+92.12, 26.72 LT
MES
W FL 23.52 (19" X 12" RCP)

085
STA 3323+86.80, 20.03 LT
ENDWALL
W FL 22.23 (24" RCP)

085A
STA 4323+90.68, 48.23 RT
ENDWALL
E FL 22.36 (24" RCP)

086
STA 4324+86.85, 71.01 RT
BAFFLE
E FL 23.19 (15" CMP)

86A
STA 4324+80.61, 135.23 RT
GRATE INLET
W FL 43.32 (15" CMP)

NOTE: STATIONS AND OFFSETS ARE MEASURED FROM ℄ CONST.
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID C. TYLER, P.E.
P.E. NO.: 74630
BURGESS & NIPLE INC.
10006 N. DALE MABRY HIGHWAY, SUITE 201
TAMPA, FL 33618

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

EXISTING DRAINAGE STRUCTURES (1)

SHEET NO. 26

Febre 1/13/2021 10:48:05 AM F:\Projects\42061325201\drainage\DRMPRD10.DGN

(087) STA 1323+98.96, 323.55 LT
MES
S FL 33.65 (4" PVC)

(088) STA 1324+20.80, 265.44 LT
BAFFLE
S FL 20.51 (15" CMP)

(089) STA 1323+82.41, 238.87 LT
GRATE INLET
N FL 33.61 (15" CMP)

(090) STA 2326+06.21, 89.10 LT
BAFFLE
SE FL 18.82 (15" CMP)

(091) STA 2326+05.49, 45.13 LT
GRATE INLET
NW FL 26.79 (15" CMP)

(092) STA 2328+74.64, 136.28 LT
ENDWALL
E FL 18.10 (30" RCP)

(093) STA 2329+24.16, 20.77 LT
GRATE INLET
W FL 18.43 (30" RCP)
E FL 18.38 (30" RCP)

(094) STA 1329+60.60, 65.51 LT
ENDWALL
E FL 17.56 (30" RCP)

(095) STA 1330+50.07, 65.58 RT
ENDWALL
W FL 17.06 (36" RCP)

(95A) STA 1330+50.07, 167.82 RT
ENDWALL
E FL 17.15 (36" RCP)

(096) STA 1323+75.05, 16.89 RT
MES
NW FL 23.77 (4" PVC)

(097) STA 1326+65.69, 70.39 RT
MES
NW FL 23.74 (4" PVC)

(098) STA 7330+94.26, 100.22 LT
ENDWALL
W FL 17.60 (24" RCP)

(98A) STA 7330+91.86, 0.47 RT
ENDWALL
E FL 17.16 (24" RCP)

(099) STA 587+03.82, 167.82 LT
ENDWALL
N FL 15.49 (48" STEEL)

(99A) STA 587+00.04, 92.26 RT
ENDWALL
S FL 15.03 (48" STEEL)

(99B) STA 587+66.22, 225.17 RT
ENDWALL
SE FL 15.01 (54" RCP)

(100) STA 586+22.17, 116.73 RT
ENDWALL
SE FL 14.93 (38" X 24" ERCP)
SE FL 14.83 (38" X 24" ERCP)
SE FL 14.90 (38" X 24" ERCP)

(101) STA 587+44.86, 144.03 RT
ENDWALL
NW FL 14.94 (38" X 24" ERCP)
NW FL 14.94 (38" X 24" ERCP)
NW FL 14.91 (38" X 24" ERCP)

(102) STA 588+08.25, 301.25 LT
HEADWALL
S FL 8.71 (9' X 11' CBC)
S FL 8.73 (9' X 11' CBC)
S FL 8.72 (9' X 11' CBC)

(103) STA 588+08.04, 237.42 LT
HEADWALL
N FL 8.58 (9' X 11' CBC)
N FL 8.59 (9' X 11' CBC)
N FL 8.59 (9' X 11' CBC)

(104) STA 588+32.37, 94.49 LT
ENDWALL
N FL 8.78 (9' X 9' CBC)
N FL 8.81 (9' X 9' CBC)
N FL 8.79 (9' X 9' CBC)
N FL 8.77 (9' X 9' CBC)

(105) STA 588+40.75, 121.12 RT
ENDWALL
S FL 8.86 (9' X 9' CBC)
S FL 8.85 (9' X 9' CBC)
S FL 8.85 (9' X 9' CBC)
S FL 8.82 (9' X 9' CBC)

(106) STA 591+63.79, 134.19 LT
HEADWALL
E FL 10.60 (9' X 9' CBC)

(107) STA 592+27.65, 137.17 LT
HEADWALL
W FL 10.44 (9' X 9' CBC)

(108) STA 600+57.63, 104.39 RT
MES
E FL 16.04 (30" RCP)

(109) STA 602+17.99, 95.56 RT
MES
W FL 16.01 (30" RCP)

(110) STA 284+29.94, 128.57 LT
GRATE INLET
NW FL 22.21 (18" RCP)

(111) STA 284+23.49, 122.00 RT
GRATE INLET
NE FL 20.45 (15" RCP)

(112) STA 284+99.90, 143.48 LT
CURB INLET
S FL 22.56 (15" RCP)
NE FL 22.65 (15" RCP)

(113) STA 284+45.99, 143.10 LT
CURB INLET
N FL 21.94 (15" RCP)
SE FL 21.94 (18" RCP)
E FL 19.52 (53" X 34" ERCP)
W FL 19.57 (36" RCP)
TO BE REMOVED BY OTHERS

(114) STA 284+49.66, 98.20 LT
MANHOLE
W FL 19.18 (53" X 34" ERCP)
E FL 19.18 (53" X 34" ERCP)

(115) STA 284+39.79, 136.51 RT
CURB INLET
N FL 20.53 (15" RCP)
W FL 20.87 (53" X 34" ERCP)
SE FL 18.83 (42" RCP)
S FL 20.20 (15" RCP)
TO BE REMOVED BY OTHERS

(116) STA 284+29.50, 206.49 RT
MANHOLE
NW FL 18.56 (42" RCP)

(117) STA 284+86.25, 136.90 RT
MANHOLE
S FL (15" RCP)

(118) STA 284+86.25, 136.34 RT
CURB INLET
S FL 20.75 (15" RCP)
NW FL 20.69 (15" RCP)
NE FL 21.00 (15" RCP)

(119) STA 285+17.19, 183.74 RT
GRATE INLET
SW FL 21.36 (15" RCP)

(120) STA 285+10.51, 123.47 RT
GRATE INLET
SE FL 21.84 (15" RCP)

(121) STA 285+15.96, 126.76 LT
GRATE INLET
SW FL 23.33 (15" RCP)

(122) STA 288+86.71, 138.71 LT
ENDWALL
E FL 19.04 (42" RCP)
TO BE REMOVED BY OTHERS

(123) STA 288+26.28, 137.92 RT
ENDWALL
W FL 18.93 (42" RCP)
TO BE MODIFIED BY OTHERS

(124) STA 289+19.84, 145.89 LT
BAFFLE
S FL 19.80 (15" CMP)
TO BE REMOVED BY OTHERS

(125) STA 289+22.04, 89.65 LT
GRATE INLET
N FL 38.69 (15" CMP)
TO BE REMOVED BY OTHERS

(126) STA 288+95.93, 90.68 RT
GRATE INLET
S FL 38.61 (15" CMP)

(127) STA 288+95.71, 137.81 RT
BAFFLE
N FL 20.09 (15" CMP)

(128) STA 292+96.64, 89.72 LT
GRATE INLET
S FL 29.38 (15" RCP)
TO BE REMOVED BY OTHERS

(129) STA 292+96.60, 0.00 LT
GRATE INLET
N FL 29.13 (15" RCP)
S FL 29.23 (18" RCP)
TO BE REMOVED BY OTHERS

(130) STA 292+96.60, 90.47 RT
GRATE INLET
N FL 29.93 (18" RCP)
S FL 28.70 (18" CMP)

(131) STA 292+95.81, 137.47 RT
BAFFLE
N FL 23.42 (18" CMP)

(132) STA 300+18.00, 131.52 LT
ENDWALL
E FL 19.42 (60" RCP)
TO BE MODIFIED BY OTHERS

(133) STA 299+92.31, 0.00 LT
GRATE INLET
N FL 21.53 (18" RCP)
TO BE REMOVED BY OTHERS

(134) STA 300+32.75, 134.87 RT
ENDWALL
W FL 18.96 (60" RCP)
TO BE MODIFIED BY OTHERS

(135) STA 307+78.39, 142.73 LT
ENDWALL
E FL 21.68 (24" RCP)

(136) STA 307+84.33, 0.00 LT
GRATE INLET
E FL 21.85 (24" RCP)
W FL 21.73 (24" RCP)
TO BE REMOVED BY OTHERS

(137) STA 307+90.71, 144.99 RT
ENDWALL
W FL 21.12 (24" RCP)
TO BE REMOVED BY OTHERS

(138) STA 1307+94.06, 46.88 RT
ENDWALL
W FL 21.77 (8" PVC)
W FL 21.77 (8" PVC)
W FL 21.67 (8" PVC)

(139) STA 1307+90.94, 53.01 RT
ENDWALL
E FL 22.39 (8" PVC)
E FL 22.25 (8" PVC)
E FL 22.36 (8" PVC)

(140) STA 317+25.48, 192.75 LT
ENDWALL
E FL 18.74 (60" RCP)

(141) STA 317+44.25, 138.60 RT
ENDWALL
W FL 17.52 (60" RCP)

(142) STA 317+50.83, 203.52 RT
ENDWALL
E FL 17.77 (60" RCP)

(143) STA 317+58.99, 338.73 RT
ENDWALL
W FL 17.82 (60" RCP)

(144) STA 318+97.94, 93.61 LT
GRATE INLET
E FL 29.94 (15" RCP)

(145) STA 318+97.94, 0.00 LT
GRATE INLET
W FL 29.97 (15" RCP)
E FL 29.91 (18" RCP)

(146) STA 318+96.48, 90.25 RT
GRATE INLET
W FL 29.65 (18" RCP)
E FL 29.34 (18" CMP)

(147) STA 318+96.51, 151.04 RT
BAFFLE
W FL 18.63 (18" CMP)

(148) STA 3319+86.45, 13.65 RT
MES
E FL 25.49 (4" PVC)

(149) STA 320+96.54, 90.13 RT
CURB INLET
E FL 37.00 (15" CMP)

(150) STA 320+94.45, 144.16 RT
BAFFLE
W FL 21.66 (15" CMP)

(151) STA 335+96.74, 0.00 LT
GRATE INLET
E FL 39.12 (18" RCP)

(152) STA 335+97.18, 98.02 RT
GRATE INLET
W FL 38.75 (18" RCP)
E FL 38.42 (15" CMP)

(153) STA 335+96.74, 139.06 RT
BAFFLE
W FL 24.02 (15" CMP)

(154) STA 338+96.92, 91.61 LT
GRATE INLET
W FL 33.03 (15" CMP)

(155) STA 338+96.07, 139.23 LT
BABBLE
E FL 24.13 (15" CMP)

(156) STA 340+21.47, 89.41 RT
GRATE INLET
E FL 29.76 (15" RCP)

(157) STA 340+39.29, 173.15 RT
BAFFLE
W FL 26.10 (15" RCP)

(158) STA 342+65.84, 140.06 LT
GRATE INLET
N FL 19.52 (24" RCP)

(159) STA 343+22.78, 260.33 LT
ENDWALL
E FL 10.19 (8' X 10' CBC)
E FL 10.19 (8' X 10' CBC)

(160) STA 343+24.03, 163.50 RT
ENDWALL
W FL 10.53 (8' X 10' CBC)
W FL 10.53 (8' X 10' CBC)

(161) STA 344+05.29, 222.28 LT
GRATE INLET
S FL 19.60 (36" RCP)

(162) STA 343+59.05, 207.30 LT
MES
SE FL 28.44 (4" PVC)

(163) STA 343+29.01, 0.00 LT
GRATE INLET
E FL (8' X 10' CBC)

(164) STA 350+17.19, 194.76 RT
ENDWALL
W FL 26.86 (18" RCP)

(165) STA 351+81.38, 182.83 LT
GRATE INLET
E FL

(166) STA 80+89.24, 140.17 LT
ENDWALL
E FL 27.95 (30" RCP)

(167) STA 80+64.78, 121.11 RT
ENDWALL
W FL 26.60 (36" RCP)

(168) STA 80+77.97, 9.29 LT
GRATE INLET
W FL 27.58 (30" RCP)
E FL 27.21 (36" RCP)
N FL 28.99 (18" RCP)

(169) STA 85+86.91, 15.71 LT
MES
S FL 28.40 (18" RCP)

(170) STA 80+67.73, 175.29 RT
MES
E FL 26.60 (36" RCP)

(171) STA 80+68.85, 238.31 RT
MANHOLE
W FL 26.86 (36" RCP)
S FL 27.04 (42" RCP)

(172) STA 83+44.58, 104.80 RT
MES
W FL 31.96 (4" PVC)

(173) STA 604+57.42, 47.40 LT
CURB INLET
S FL 18.44 (18" RCP)

(174) STA 604+56.90, 47.81 RT
CURB INLET
N FL 18.52 (18" RCP)
E FL 18.59 (18" RCP)

(175) STA 607+80.97, 51.19 RT
MANHOLE
W FL 17.96 (18" RCP)
E FL 17.56 (18" RCP)

(176) STA 611+03.93, 47.33 LT
CURB INLET
S FL 18.75 (18" RCP)

(177) STA 610+26.16, 84.26 RT
MES
E FL 16.41 (30" RCP)

(178) STA 611+03.36, 47.52 RT
CURB INLET
N FL 18.45 (18" RCP)
W FL 17.56 (18" RCP)
E FL 16.62 (18" RCP)

(179) STA 610+98.53, 69.76 RT
MANHOLE
S FL 13.80 (29" X 45" ERCP)

(180) STA 610+88.21, 82.55 RT
MES
W FL 16.61 (30" RCP)

(181) STA 612+39.15, 59.03 RT
CURB INLET
W FL 17.23 (30" RCP)
E FL 16.73 (30" RCP)

(182) STA 612+74.90, 81.29 RT
MES
W FL 15.82 (30" RCP)

(183) STA 612+91.50, 75.59 RT
MANHOLE
W FL 16.37 (30" RCP)
E FL 15.91 (30" RCP)

(184) STA 613+81.62, 50.43 RT
MANHOLE
W FL 16.73 (30" RCP)
E FL 16.79 (30" RCP)

(185) STA 73+92.05, 217.87 RT
MANHOLE
N FL 26.00 (42" RCP)
E FL 25.91 (42" RCP)

(186) STA 74+10.92, 277.42 RT
MES
E FL 25.92 (42" RCP)

(187) STA 77+43.17, 238.55 RT
MANHOLE
N FL 26.50 (42" RCP)
S FL 26.58 (42" RCP)

(188) STA 85+76.78, 153.32 LT
U-TYPE ENDWALLS W/ WEIR
N SKIMMER ORIFICE (24" RCP)
S FL 29.33 (24" RCP)

(189) STA 97+94.09, 32.70 LT
U-TYPE ENDWALLS W/ WEIR
N SKIMMER ORIFICE (24" RCP)
S FL 29.78 (24" RCP)

(190) STA 317+14.63, 219.73 LT
PIPE
NE FL 20.86 (36" CMP)

(191) STA 83+00.12, 11.10 LT
MANHOLE
N FL 29.19 (18" RCP)
S FL 29.26 (18" RCP)

(192) STA 343+66.60, 319.88 LT
ENDWALLS
N FL 12.68 (72" RCP)
S FL 11.20 (72" RCP)

(193) STA 343+74.35, 0.18 RT
U-TYPE ENDWALLS W/ WEIR
N SKIMMER ORIFICE (24" RCP)
S FL 29.79 (24" RCP)

NOTE: STATIONS AND OFFSETS ARE MEASURED FROM ℄ CONST.
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID C. TYLER, P.E.
P.E. NO.: 74630
BURGESS & NIPLE INC.
10006 N. DALE MABRY HIGHWAY, SUITE 201
TAMPA, FL 33618

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

EXISTING DRAINAGE STRUCTURES (2)

SHEET NO. 27

BR-983
284+49.74, 143.16 LT
CURB INLET
INVERT = 19.57' (N&W)
EOP = 25.36'

BR-984
284+62.65, 142.91 LT
MANHOLE
INVERT = 19.47 (S&E)
INVERT = 22.15' (N)
RIM = 25.68

BR-985
284+61.59, 97.92 LT
MANHOLE
INVERT = 19.18 (E&W)
RIM = 25.28'

BR-986
284+57.37, 136.61 RTLT
MANHOLE
INVERT = 18.93' (S&W)
INVERT = 20.60' (N)
RIM = 24.26'

BR-987
284+42.48, 136.57 RT
CURB INLET
INVERT = 18.83' (N&E)
INVERT = 20.20' (S)
EOP = 23.94'

BR-205
287+92.65, 149.87 LT
GRATE INLET
INVERT = 44.10'
GRATE = 48.64'

BR-206
287+92.65, 71.87 LT
GRATE INLET
INVERT = 42.84' (E)
INVERT = 43.95' (W)
GRATE = 49.34'

BR-207
287+92.65, 42.09 LT
END TREATMENT
INVERT = 41.50'

BR-208
288+91.77, 158.28 LT
MES
INVERT = 19.59'

BR-208A
289+06.71, 158.44 LT
MES
INVERT = 19.05'

BR-208B
288+41.93, 138.08 RT
END TREATMENT
INVERT = 18.93'

BR-208
288+91.77, 158.28 LT
MES
INVERT = 19.59'

BR-209
290+93.01, 149.31 LT
MEDIAN INLET
INVERT = 41.00'
GRATE = 46.02

BR-210
290+92.20, 22.01 LT
CURB INLET
INVERT = 40.78' (E)
INVERT = 40.85' (W)
GRATE = 46.72

BR-211
290+92.20, 22.01 LT
END TREATMENT
INVERT = 36.00'

BR-212
292+93.38, 147.36 LT
CURB INLET
INVERT = 37.47'
GRATE = 43.28'

BR-213
292+92.35, 69.36 LT
CURB INLET
INVERT = 37.21' (E)
INVERT = 37.35' (W)
GRATE = 43.98'

BR-214
292+91.63, 14.77 LT
END TREATMENT
INVERT = 31.90'

BR-214A
292+63.47, 152.72 RT
DRAINAGE STRUCTURE
POND BOTTOM = 22.00'
WEIR CREST = 24.15'
WEIR TOP = 25.20'
DITCH BOTTOM = 23.40'

BR-215
293+41.29, 1.20 LT
DITCH BOTTOM INLET
INVERT = 24.10'
SLOT = 30.52'
GRATE = 31.10'

BR-216
293+91.14, 1.01 LT
DITCH BOTTOM INLET
INVERT = 23.90' (E)
INVERT = 23.90' (S)
SLOT = 29.72'
GRATE = 30.30'

BR-217
293+88.91, 131.97 RT
MES
INVERT = 22.00'

BR-218
295+93.91, 141.81 LT
GRATE INLET
INVERT = 31.20'
GRATE = 37.69'

BR-219
295+92.06, 63.83 LT
GRATE INLET
INVERT = 30.07' (E)
INVERT = 31.00' (W)
GRATE = 39.55'

BR-220
295+90.96, 17.44 LT
END TREATMENT
INVERT = 28.35'

BR-221
298+93.99, 123.61 LT
GRATE INLET
INVERT = 27.40'
GRATE = 32.30'

BR-222
298+91.71, 55.15 LT
CURB INLET
INVERT = 27.20' (E&W)
GRATE = 32.75'

BR-223
298+90.69, 25.47 LT
END TREATMENT
INVERT = 26.90'

BR-224
299+02.17, 139.45 RT
DRAINAGE STRUCTURE
INVERT = 20.00'
GRATE = 25.02'
SKIMMER TOP = 25.52'
SKIMMER BOTTOM = 22.67'
POND BOTTOM = 22.00'
BERM MIN. = 24.90'
WEIR = 24.15'

BR-225
299+41.50, 139.45 RT
MES
INVERT = 19.80'

BR-226
300+26.08, 6.46 LT
DITCH BOTTOM INLET
INVERT = 19.78' (E&W)
GRATE = 27.00'

BR-226A
300+26.08, 6.46 LT
END TREATMENT
INVERT = 19.97'

BR-227
300+30.84, 30.56
END TRTEATMENT
INVERT = 27.00'

BR-228
300+31.61, 50.17 LT
CURB INLET
INVERT = 27.10' (E)
INVERT = 27.20' (W)
GRATE = 30.93'

BR-229
300+33.89, 116.13 LT
GRATE INLET
INVERT = 27.30'
GRATE = 30.62'

BR-229A
300+51.46, 141.82 RT
MES
INVERT = 19.40'

BR-229B
300+98.00, 139.00 RT
DITCH BOTTOM INLET
INVERT = 19.50'
GRATE = 25.10'
SKIMMER TOP = 25.60'
SKIMMER BOTTOM = 23.30'
POND BOTTOM = 22.50'
BERM MIN. = 25.60'
WEIR = 24.00'

BR-230
299+41.50, 139.45 RT
MES
INVERT = 21.12'

BR-230A
307+84.60, 8.59 LT
DITCH BOTTOM INLET
INVERT = 21.85' (W)
INVERT = 21.73' (E)
GRATE = 26.10'

BR-231
310+02.16, 157.96 RT
CURB INLET
INVERT = 23.10'
GRATE = 24.50'
SKIMMER TOP = 25.00'
SKIMMER BOTTOM = 23.50'
POND BOTTOM = 22.50'
BERM MIN. = 25.60'
WEIR = 24.00'

BR-232
310+41.42, 160.39 RT
MES
INVERT = 23.00'

LR-600
63+79.71, 292.43 RT
MES
INVERT = 26.20'

LR-601
63+65.18, 179.25 RT
MES
INVERT = 26.40'

LR-700
74+09.89, 274.54 RT
MES
INVERT = 26.20'

LR-701
74+09.47, 252.50 RT
MANHOLE
INVERT 26.30' (N&E)
RIM = 32.60'

LR-702
78+10.47, 254.50 RT
MANHOLE
INVERT = 26.60' (N&S)
RIM = 33.24'

LR-703
80+69.47, 254.50 RT
MANHOLE
INVERT = 26.90' (S)
INVERT = 26.95' (W)
RIM = 32.80'

LR-96
186+02.68, 161.95 LT
CURB INLET
INVERT = 10.45' (E&W)
GRATE = 22.10'

LR-97
186+35.52, 250.95 LT
CURB INLET
INVERT = 10.60'
GRATE = 17.00'

LR-98
187+92.35, 116.90 LT
MANHOLE
INVERT = 11.50' (E&W)
INVERT = 11.90' (N)
RIM = 23.20'

LR-99
187+93.74, 160.88 LT
GRATE INLET
INVERT = 12.50'
GRATE = 22.30'
SKIMMER TOP = 22.30'
WEIR = 17.50'
STRUCTURE BOTTOM = 10.50'
POND BOTTOM = 7.50'

LR-100
192+00.92, 96.73 LT
MANHOLE
INVERT = 12.50' (E&W)
RIM = 22.85'

LR-101
193+01.24, 106.20 LT
MANHOLE
INVERT = 18.20' (S)
INVERT = 11.50' (N)
RIM = 21.95'

LR-101A
193+02.46, 143.72 LT
MES
INVERT = 10.00'

LR-102
195+89.75, 94.38 LT
END TREATMEMT
INVERT = 14.50'

LR-103
194+65.21, 142.52 LT
CURB INLET
INVERT = 14.76' (N)
INVERT = 17.80' (E)
INVERT = 10.90' (W)
EOP = 22.49'

LR-103A
193+57.83, 153.38 LT
MES
INVERT = 140.70'

LR-104
195+48.96, 143.12 LT
CURB INLET
INVERT = 18.00' (N&W)
EOP = 22.51'

LR-105
194+64.26, 181.17 LT
CURB INLET
INVERT = 15.34' (N)
INVERT = 14.84' (S)
EOP = 22.59'

LR-106
195+47.68, 184.70 LT
CURB INLET
INVERT = 18.10' (S)
EOP = 22.61'

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID C. TYLER, P.E.
P.E. NO.: 74630
BURGESS & NIPLE INC.
10006 N. DALE MABRY HIGHWAY, SUITE 201
TAMPA, FL 33618

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

EXISTING DRAINAGE STRUCTURES (3)

SHEET NO. 28

SUMMARY OF FLOOD DATA

FINANCIAL PROJECT ID: 420613-2-52-01

STATE PROJECT NO.

DATE: JUNE 2018

STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD			
		2% PROB.	50 YR. FREQ.	1% PROB.	100 YR. FREQ.								
		DISCHARGE	STAGE	DISCHARGE	STAGE	DISCHARGE	STAGE	PROB. %	FREQ. YR.	DISCHARGE	STAGE	PROB. %	FREQ. YR.
S-102A & S-103A	288+78	35.23	22.57	35.51	22.72								
S-118 & S-120A	300+36	15.29	24.87	15.35	24.91								
S-401 & S-302	307+80	26.79	20.21	32.96	20.58								
S-409 & S-308A	317+44	90.27	20.22	98.31	20.58								
S-211B & S-211C	343+25	681.41	21.36	701.34	21.75								
S-229 & S-230	80+84	24.89	29.80	26.18	29.88								
S-716 & EX-020	520+95	325.45	22.71	330.26	22.96								
S-754A & EX-41A	541+33	575.80	22.44	581.97	22.74								
S-858B & S-858A	587+35	83.08	20.22	83.32	20.58								
EX-104 & EX-105	588+34	1020.04	21.25	1082.19	21.56								

THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES. PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND AND STAGES ARE IN FEET, NGVD, 1929.

DEFINITIONS:

DESIGN FLOOD: THE FLOOD SELECTED BY F.D.O.T. TO BE UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.

BASE FLOOD: THE FLOOD HAVING A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR. (100 YR. FREQUENCY)

OVERTOPPING FLOOD: THE FLOOD WHERE FLOW OCCURS (A) OVER THE HIGHWAY (B) OVER A WATERSHED DIVIDE OR (C) THRU EMERGENCY RELIEF STRUCTURES.

GREATEST FLOOD: THE MOST SEVERE FLOOD WHICH CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE, NORMALLY ONE WITH A 0.2% CHANCE OF BEING EXCEEDED IN ANY YEAR. (500 YR. FREQUENCY)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. NO.: 74630
BURGESS & NIPLE INC.
10006 N. DALE MABRY HIGHWAY, SUITE 201
TAMPA, FL 33618

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	SARASOTA	420613-2-52-01

FLOOD DATA (1)

SHEET NO. 29

CONSTRUCTION CONTRACT NO. T1621

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
INTELLIGENT TRANSPORTATION SYSTEMS PLANS
LIGHTING PLANS
STRUCTURE PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

LIST OF REVISED INDEX DRAWINGS

INDEX NO.	SHEET NO.	INDEX NO.	SHEET NO.
501	N/A	17302	1 of 1
600	1-12 of 12	17347	1-5 of 5
11200	3 of 3	17727	2 of 2
11860	4 of 8	17841	1 of 1
13417	1 of 1		

GOVERNING STANDARDS AND SPECIFICATIONS:
Florida Department of Transportation, 2015 Design Standards and revised Index Drawings as appended herein, and January 2015 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following web site:
http://www.dot.state.fl.us/rddesign/

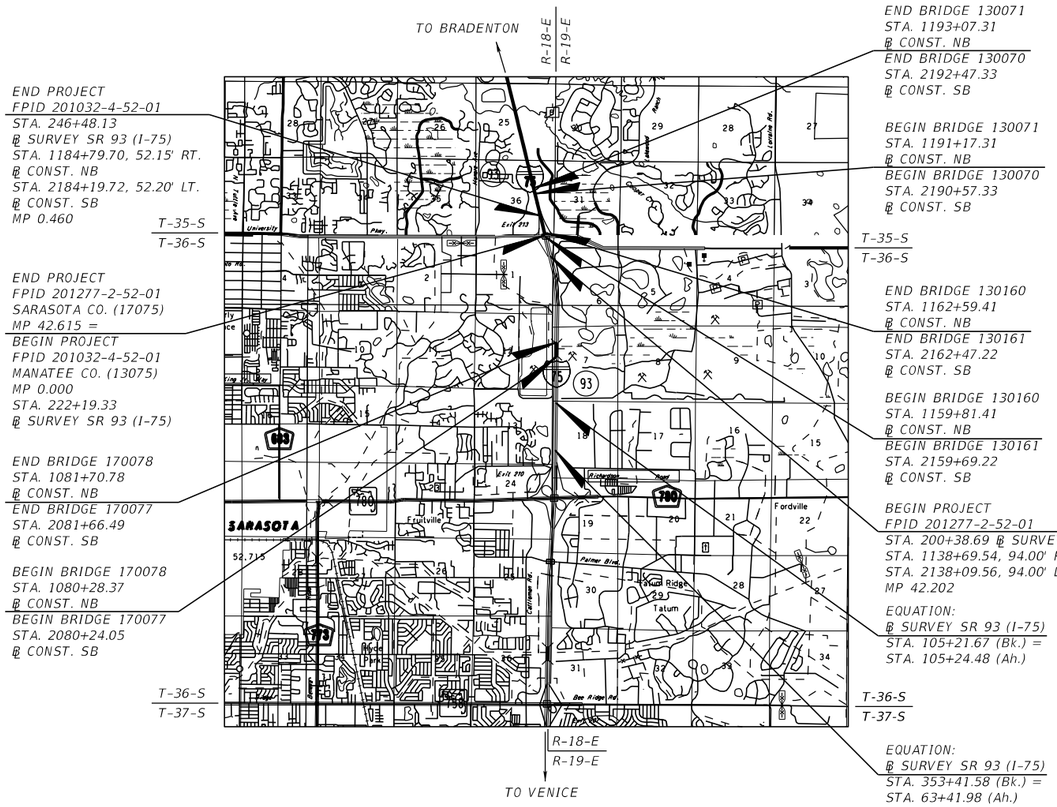
For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
http://www.dot.state.fl.us/specificationsoffice/

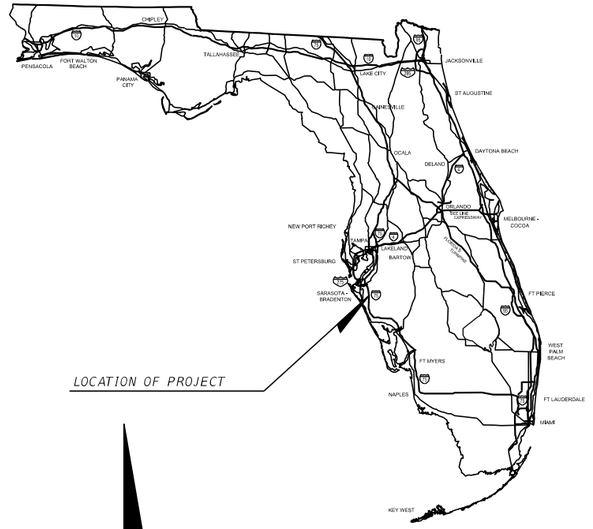
REVISIONS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 201032-4-52-01
FINANCIAL PROJECT ID 201277-2-52-01
(FEDERAL FUNDS)
MANATEE COUNTY (13075)
SARASOTA COUNTY (17075)
STATE ROAD NO. 93





ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
DONALD R. HOLCOMB, PE
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232

PLANS PREPARED BY:
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
(941) 342-2700
WWW.HDRINC.COM
FBPR CERTIFICATE OF AUTHORIZATION NO. 4213
VENDOR NO. 47-0680568
CONTRACT NO. C9480

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

NOTE: THIS PROJECT TO BE LET TO CONTRACT WITH FINANCIAL PROJECT ID 201032-4-56-01

LENGTH OF PROJECT

	FPID 201277-2-52-01		FPID 201032-4-52-01		TOTAL	
	LINEAR FT	MILES	LINEAR FT	MILES	LINEAR FT	MILES
ROADWAY	2,180.64	0.413	2,428.80	0.460	4,609.44	0.873
BRIDGES	0.00	0.000	278.00	0.053	278.00	0.053
NET LENGTH OF PROJECT	2,180.64	0.413	2,706.80	0.513	4,887.44	0.926
EXCEPTIONS	0.00	0.000	0.00	0.000	0.00	0.000
GROSS LENGTH OF PROJECT	2,180.64	0.413	2,706.80	0.513	4,887.44	0.926

FDOT PROJECT MANAGER: KEVIN S. INGLE, PE

KEY SHEET REVISIONS	
DATE	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: DONALD R. HOLCOMB, PE

PE NO.: 51970

FISCAL YEAR	SHEET NO.
15	1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

A BEGIN WIDENING (SB)
STA. 341+48.00, 44.79' LT. ℄ SURVEY SR 93 (I-75) =
STA. 1989+48.00, ℄ CONST. SB

BEGIN CONSTRUCTION (SB)
STA. 337+00.00 ℄ SURVEY SR 93 (I-75)

A

BEGIN CONSTRUCTION (NB)
STA. 343+40.00 ℄ SURVEY SR 93 (I-75)

℄ SURVEY SR 93 (I-75)
EQUATION:
353+41.58 BK. =
63+41.98 AH.

Exist. Ground at ℄ Survey SR 93 (I-75)

DHW (50 YR.) - 22.88

Exist. 8'x10' CBC

FL - 10.36

SCALE:
1" = 200' HORIZ.
1" = 20' VERT.

49.56

31.63

60
40
20
0

330 335 340 345 350

BEGIN CONSTRUCTION (SB)
STA. 337+00.00
℄ SURVEY SR 93 (I-75)

FRUITVILLE ROAD

160

165

SR 780

SECT. 24, T 36S, R 18E
SECT. 19, T 36S, R 19E

100-YR. FLOODPLAIN
EL. 22.64
(SARASOTA COUNTY)

DHW (100 YR.) = 22.85
(NODE 32602) (*)

BASIN R
ERP NO. 4010177.000
SHW - 28.2
DHW - 29.88
CONTROL EL. - 28.2

N CATTLEMEN RD.

RICHARDSON RD.

SECT. 24, T 36S, R 18E
SECT. 18, T 36S, R 19E

℄ CONST. SB

℄ SURVEY
SR 93 (I-75)

8.30 Ac.

1980 1985 1990 1995 2000

1000

32.0

30.0

S-100
8.30 Ac.

WL-11

MATCHLINE STA. 65+00.00

℄ CONST. NB

SWFWMD JD LINE

A ℄ SURVEY SR 93 (I-75)
EQUATION:
353+41.58 BK. =
63+41.98 AH.

(*) FROM PHILLIPPI CREEK
WATERSHED MODEL
(SARASOTA COUNTY).

FLIGHT DATE - 04/24/2012

1" = 200'

1A 1B 1C 1D 1 2 3 4 5 6 7

BEGIN CONSTRUCTION (NB)
STA. 343+40.00
℄ SURVEY SR 93 (I-75)

100-YR. FLOODPLAIN
EL. 22.64
(SARASOTA COUNTY) (*)

PHILLIPPI CREEK

SECT. 19, T 36S, R 19E
SECT. 18, T 36S, R 19E

DHW (100 YR.) = 22.64
(NODE 32601)

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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (1)

SHEET NO. 16

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BEGIN WIDENING (NB)
STA. 67+00.00 ℄ SURVEY SR 93 (I-75)
43.90' RT. = STA. 1005+00.00 ℄ CONST. NB
44.15' LT. = STA. 2005+00.00 ℄ CONST. SB

Exist. Ground at ℄ Survey SR 93 (I-75)

Exist. 36" Pipe

S-101 S-102 S-103

DHW (50 YR.) = 30.05

FL 29.1

FL 29.5

FL 28.8

FL 27.28

CONST. 18" PIPE

CONST. 18" PIPE

SCALE:
1" = 200' HORIZ.
1" = 20' VERT.

60 40 20 0

31.63 70 75 80 85 90 31.65

MARLIN LAKES

BASIN R

SAN PALERMO WAY

ERP NO. 4010177.002
NHW = 28.2
DHW (25 YR.) = 31.0
DHW (100 YR.) = 31.46

DHW (100 YR.) = 30.03
(NODE 32470)

MADRANO DR.

SHW 10 = 29.67
SHW 8 = 29.55
SHW 9 = 29.61

ERP NO. 43032151.000
SHW = 28.3
DHW = 29.87
CONT. EL. = 28.3

ERP NO. 43032151.000
SHW = 28.3
DHW = 29.89
CONT. EL. = 28.3
WEIR = 28.53

SWFWMD JD LINE

1" = 200'

℄ SURVEY SR 93 (I-75)

S-200
5.40 Ac.

1.61 Ac.

1.80 Ac.

POND R-0L1

N CATTLEMEN RD.

℄ CONST. SB

SWFWMD JD LINE

℄ SURVEY
SR 93 (I-75)

SECT. 13, T 36S, R 18E
SECT. 18, T 36S, R 19E

WL-10 WL-9 WL-8

29.8

30.0

MATCHLINE STA. 65+00.00

2005 2010 2015 2020 2025 2030

1005 1010 1015 1020 1025 1030

MATCHLINE STA. 93+00.00

S-102

S-101

S-103
3.66 Ac.

WL-12 WL-13

WENDALL KENT RD.

SWFWMD JD LINE

℄ CONST. NB

SWFWMD JD LINE
100 YR. EL. = 26.176

DHW (100 YR.) = 29.19
(NODE 32471)
SHW 11 = 28.62

POND R-0L1
BOTTOM EL. 28.70
CONTROL EL. 29.70
WEIR EL. 30.00
TOP OF BERM EL. 33.20
DHW 25YR.-24HR. = 31.45
DHW 100YR.-8HR. = 31.68

ERP NO. 44027276.000
NHW = 27.0
DHW (25 YR.) = 31.64
DHW (100 YR.) = 32.10

ERP NO. 44027276.000
SHW = 30.0
DHW = 32.42
DHW = 32.88

CHURCH OF HOPE

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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

FLIGHT DATE - 04/24/2012

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DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

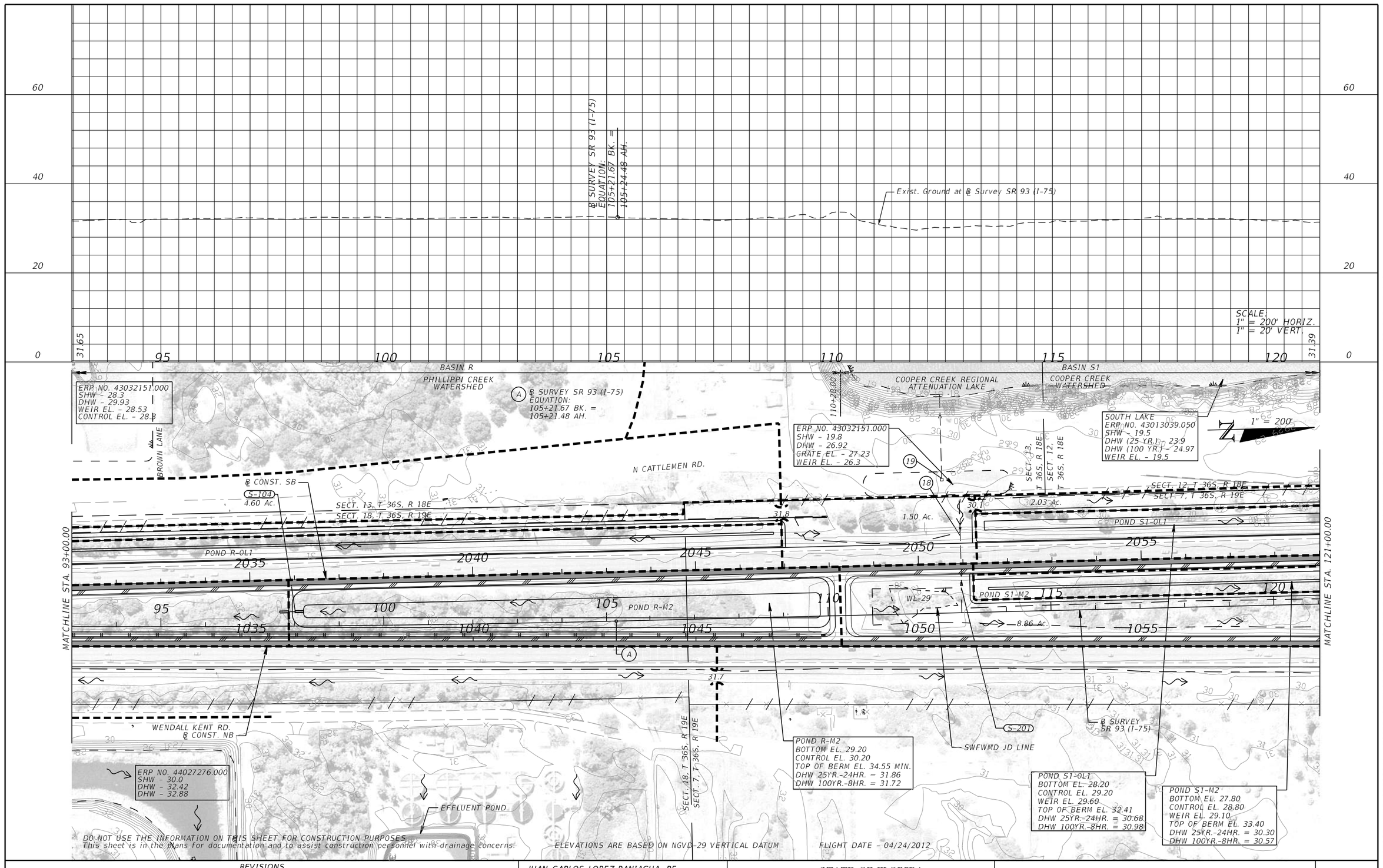
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (2)

SHEET NO. 17

jocampbe 2/19/2015 10:40:12 AM PW:\010917\C0N0069518\000000000178241\13.00_CAD\20103245201\drainage\DRMPRD02.



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (3)

SHEET NO. 18

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BEGIN BRIDGE
SB BRIDGE – NO. 170077
STA. 2080+24.05 ℄ CONST. SB
NB BRIDGE – NO. 170078
STA. 1080+28.37 ℄ CONST. NB

END BRIDGE
SB BRIDGE – NO. 170077
STA. 2081+66.49 ℄ CONST. SB
NB BRIDGE – NO. 170078
STA. 1081+70.78 ℄ CONST. NB

Exist. Ground at ℄ Survey SR 93 (I-75)

DHW (100 YR.) – 25.57

DHW (50 YR.) – 25.48

ERRIE CREEK

SCALE:
1" = 200' HORIZ.
1" = 20' VERT.

60 40 20 0

31.39

125 130 135 140 145

26.10

BASIN S1

ERP NO. 43032151.000
SHW – 19.8
DHW – 26.42
GRATE EL. – 27.0
WEIR EL. – 26.0

ERP NO. 43032151.000
SHW – 19.8
DHW – 24.66
GRATE EL. – 25.5
WEIR EL. – 24.4

COOPER CREEK REGIONAL ATTENUATION LAKE
DHW (25 YR.) – 23.9
DHW (100 YR.) – 24.97

ERP NO. 43032151.000
SHW – 19.8
DHW – 24.37
GRATE EL. – 25.0
WEIR – 24.0

N CATTLEMEN RD.

℄ CONST. SB

S-202
5.63 Ac.

SECT. 12, T 36S, R 18E

SECT. 7, T 36S, R 19E

2.03 Ac.

2.53 Ac.

POND S1-OL1

POND S1-M2

℄ SURVEY SR 93 (I-75)

15.72 Ac.

8.86 Ac.

S-202A
4.04 Ac.

℄ CONST. NB

100-YR. FLOODPLAIN
EL. 25.57
(MANATEE COUNTY)

SHW 24 – 22.80

SWFWMD JD LINE

SHW 22 – 22.58

SHW 12 & 13 – GONE

SHW 14 – 21.49

(*) DHW (100 YR.) – 25.56
(NODE N_CC00120)

SHW 23 – 22.51

SHW 7 – 20.49

WL-27

WL-26

WL-14

WL-7

0.17 Ac.

0.32 Ac.

24.3

0.45 Ac.

BASIN S2

43+00.00

SWFWMD JD LINE

ERP NO. 43032151.000
SHW – 19.8
DHW – 24.83
GRATE EL. – 25.5
WEIR EL. – 24.5

SHW 5 – 20.04

S-203
4.53 Ac.

1.45 Ac.

POND S2-OL1

5.51 Ac.

POND S2-M2

S-105
3.20 Ac.

(*) DHW (100 YR.) – 25.57
(NODE N_CC00110)

BASIN S2 (MEDIAN)

POND S2-M2
BOTTOM EL. 25.50
CONTROL EL. 26.50
WEIR EL. 26.80
TOP OF BERM EL. 33.10 MIN.
DHW 25YR.-24HR. = 28.18
DHW 100YR.-8HR. = 28.45

(*) FROM BRADEN RIVER WATERSHED MODEL (MANATEE COUNTY).

(COOPER CREEK / ERRIE CREEK)

1" = 200'

MATCHLINE STA. 121+00.00

MATCHLINE STA. 149+00.00

Ⓐ BEGIN BRIDGE
SB BRIDGE – NO. 170077
STA. 2080+24.05 ℄ CONST. SB
NB BRIDGE – NO. 170078
STA. 1080+28.37 ℄ CONST. NB

Ⓑ END BRIDGE
SB BRIDGE – NO. 170077
STA. 2081+66.49 ℄ CONST. SB
NB BRIDGE – NO. 170078
STA. 1081+70.78 ℄ CONST. NB

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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

FLIGHT DATE – 04/24/2012

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (4)

SHEET NO. 19

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END MILLING & RESURFACING (NB)
END WIDENING (NB)
BEGIN RECONSTRUCTION (NB)
BEGIN PROFILE GRADE (NB)
STA. 167+10.61, 207.54' RT.
℄ SURVEY SR 93 (I-75) =
STA. 1105+10.52 ℄ CONST. NB

34.26 (NB)

PROFILE GRADE (NB)

Exist. Ground at ℄ Survey SR 93 (I-75)

34.75 (NB)

SCALE:
1" = 200' HORIZ.
1" = 20' VERT.

26.10

29.92

60 40 20 0

150 155 160 165 170 175

BASIN S2

BASIN S3

COOPER CREEK REGIONAL ATTENUATION LAKE

ERP NO. 43032151.000
SHW - 19.8
DHW - 24.22
GRATE EL. - 25.0
WEIR EL. - 24.0

POND S2-OL1
BOTTOM EL. 26.60
CONTROL EL. 27.60
WEIR EL. 27.90
TOP OF BERM EL. 31.30
DHW 25YR.-24HR. = 29.37
DHW 100YR.-8HR. = 29.70

℄ CONST. SB

S-458 S-459 S-457

℄ SURVEY SR 93 (I-75)

SECT. 12, T 36S, R 18E
SECT. 7, T 36S, R 19E

27.8

1.45 Ac.

POND S2-OL1

POND S2-OL1

2090 2095 2100

163+00.00

ERP NO. 43032151.000
SHW - 19.8
DHW - 24.57
GRATE EL. - 25.0
WEIR EL. - 24.0

SECT. 12, T 36S, R 18E

SECT. 7, T 36S, R 18E

N CATTLEMEN RD.

0.76 Ac.

1" = 200'

OUTFALL TO SOUTH LAKE
GRATE EL. - 25.0
WINDOW EL. - 23.1
FL. - 21.7 (LT)

S-204

3.01 Ac.

SECT. 1, T 36S, R 18E
SECT. 6, T 36S, R 19E

28.0

WL-6

29.2

POND S3-OL1

2105 2110

150 155 160 165 170 175

30.9

5.51 Ac.

11.46 Ac.

POND S3-OL1
BOTTOM EL. 27.50
CONTROL EL. 28.50
WEIR EL. 28.70
TOP OF BERM EL. 32.00
DHW 25YR.-24HR. = 29.92
DHW 100YR.-8HR. = 30.15

1090 1095 1100 1105 1110

POND S2-M2

POND S3-M2

30.7

WL-17

SHW 15 - 26.18

SHW 17 - 26.44

SWFWMD JD LINE

℄ CONST. NB

SECT. 7, T 36S, R 19E

SECT. 6, T 36S, R 19E

167+00.00

END MILLING & RESURFACING (NB)
END WIDENING (NB)
BEGIN RECONSTRUCTION (NB)
STA. 1105+10.52 ℄ CONST. NB
STA. 167+10.61, 207.54' RT.
℄ SURVEY SR 93 (I-75)

POND S3-M2
BOTTOM EL. 27.10
CONTROL EL. 28.10
WEIR EL. 28.40
TOP OF BERM EL. 33.00
DHW 25YR.-24HR. = 30.21
DHW 100YR.-8HR. = 30.59

BASIN S2 (MEDIAN)

BASIN S3 (MEDIAN)

MATCHLINE STA. 149+00.00

MATCHLINE STA. 177+00.00

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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

FLIGHT DATE - 04/24/2012

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (5)

SHEET NO. 20

jocampbe 2/19/2015 10:41:26 AM PW:\010917\CON0069518\000000000178241\13.00_CAD\20103245201\drainage\DRMPRD05.

END MILLING & RESURFACING (SB)
END WIDENING (SB)
BEGIN RECONSTRUCTION (SB)
BEGIN PROFILE GRADE (SB)
STA. 179+50.70, 108.86' LT.
℄ SURVEY SR 93 (I-75) =
STA. 2117+45.61 ℄ CONST. SB

BEGIN PROJECT
BEGIN FPID 201277-2-52-01
STA. 200+38.69 ℄ SURVEY SR 93 (I-75)
94.00' RT. = STA. 1138+69.54 ℄ CONST. NB
94.00' LT. = STA. 2138+09.56 ℄ CONST. SB

PROFILE GRADE (NB)
PROFILE GRADE (SB)
34.67 (SB)
37.58 (SB)
34.75 (NB)
37.43 (NB)
29.92
32.21
S-106
S-108
S-109
S-110
S-111
S-112
S-113
DHW (50 YR.) - 29.85
36" PIPE
FL 28.07
18" PIPE
FL 30.0
FL 30.2
FL 30.2
FL 30.4
FL 30.6
FL 30.6
Exist. Ground at ℄ Survey SR 93 (I-75)
SCALE:
1" = 200' HORIZ.
1" = 20' VERT.

BASIN S3
BASIN T
BASIN U1
178+00.00
192+20.00
SWFWMD JD LINE
DHW (100 YR.) - 28.76
(NODE N_CC17015) (*)
(*) FROM BRADEN RIVER
WATERSHED MODEL
(MANATEE COUNTY)
MIT M4
CONTROL EL. - 20.5
DHW (25 YR.) - 22.52
DHW (100 YR.) - 23.18
POND T-OL1
BOTTOM EL. 27.80
CONTROL EL. 28.80
WEIR EL. 29.15
TOP OF BERM EL. 32.30
DHW 25YR.-24HR. = 30.76
DHW 100YR.-8HR. = 31.07
POND C2
CONTROL EL. - 20.5
DHW (25 YR.) - 22.52
DHW (100 YR.) - 23.18
BEGIN PROJECT
FPID 210277-2-52-01
STA. 200+38.69 ℄ SURVEY SR 93 (I-75)
94.00' RT. STA. 1138+69.54 ℄ CONST. NB
94.00' LT. STA. 2138+09.56 ℄ CONST. SB
1" = 200'
AREA TO POND U1
℄ CONST. SB
S-206
2.39 Ac.
SECT. 1, T 36S, R 18E
SECT. 6, T 36S, R 19E
1.68 Ac.
0.35 Ac.
9.20 Ac.
4.89 Ac.
S-205
2.49 Ac.
S-107
6.96 Ac.
S-106
DHW (100 YR.) - 29.89
(NODE N_CC17010)
ERP NO. 44013039.33
NWL - 30.0
DHW (100 YR.) - 31.22
TOB - 31.8
POND T-M2
BOTTOM EL. 28.10
CONTROL EL. 29.10
WEIR EL. 29.45
TOP OF BERM EL. 33.00
DHW 25YR.-24HR. = 31.19
DHW 100YR.-8HR. = 31.59
ERP NO. 4403039.33
NWL - 29.60
DHW (100 YR.) - 31.19
TOB - 31.8
BASIN S3
(MEDIAN)
178+00.00
DHW (100 YR.) - 30.39
(NODE N_CC17005
POND T-OL1
POND T-M2
℄ CONST. NB
MATCHLINE STA. 177+00.00
MATCHLINE STA. 205+00.00
S-300
2.29 Ac.
℄ CONST. RAMP A
℄ SURVEY SR 93 (I-75)
S-301
S-302
0.34 Ac.
S-303
0.15 Ac.
S-304
0.40 Ac.
S-108
0.04 Ac.
S-109
0.04 Ac.
S-110
0.04 Ac.
S-111
0.04 Ac.
S-112
0.04 Ac.
S-113
0.04 Ac.
S-325
0.26 Ac.
S-326
0.21 Ac.
℄ CONST.
RAMP B
ERP NO. 49013039.004
SHW - 28.83
DHW - 30.27
CONTROL EL. - 29.4
WIER EL. - 29.63
ERP NO. 44013039.033
NWL - 29.6
DHW - 30.53
TOB - 31.6
AREA TO POND U1
BASIN T (MEDIAN)
WETLAND 4
SHW - 28.63
N.P. 28.18

A END MILLING & RESURFACING (SB) & END WIDENING (SB)
BEGIN RECONSTRUCTION (SB)
STA. 2117+45.61 ℄ CONST. SB
STA. 179+50.70, 108.86' LT. ℄ SURVEY SR 93 (I-75)

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (6)

SHEET NO. 21

jocampbe 2/19/2015 10:41:49 AM PW:\010917\C0N0069518\0000000000178241\13.00_CAD\20103245201\drainage\DRMPRD06.

POND U1
CONTROL EL. = 22.20
DHW (25YR-24HR) = 24.87
DHW (100 YR/FDOT) = 25.58

POND U2
CONTROL EL. = 23.80
DHW (25YR-24HR) = 24.81
DHW (100 YR/FDOT) = 24.97

POND U3
CONTROL EL. = 20.50
DHW (25YR-24HR) = 24.58
DHW (100 YR/FDOT) = 25.11

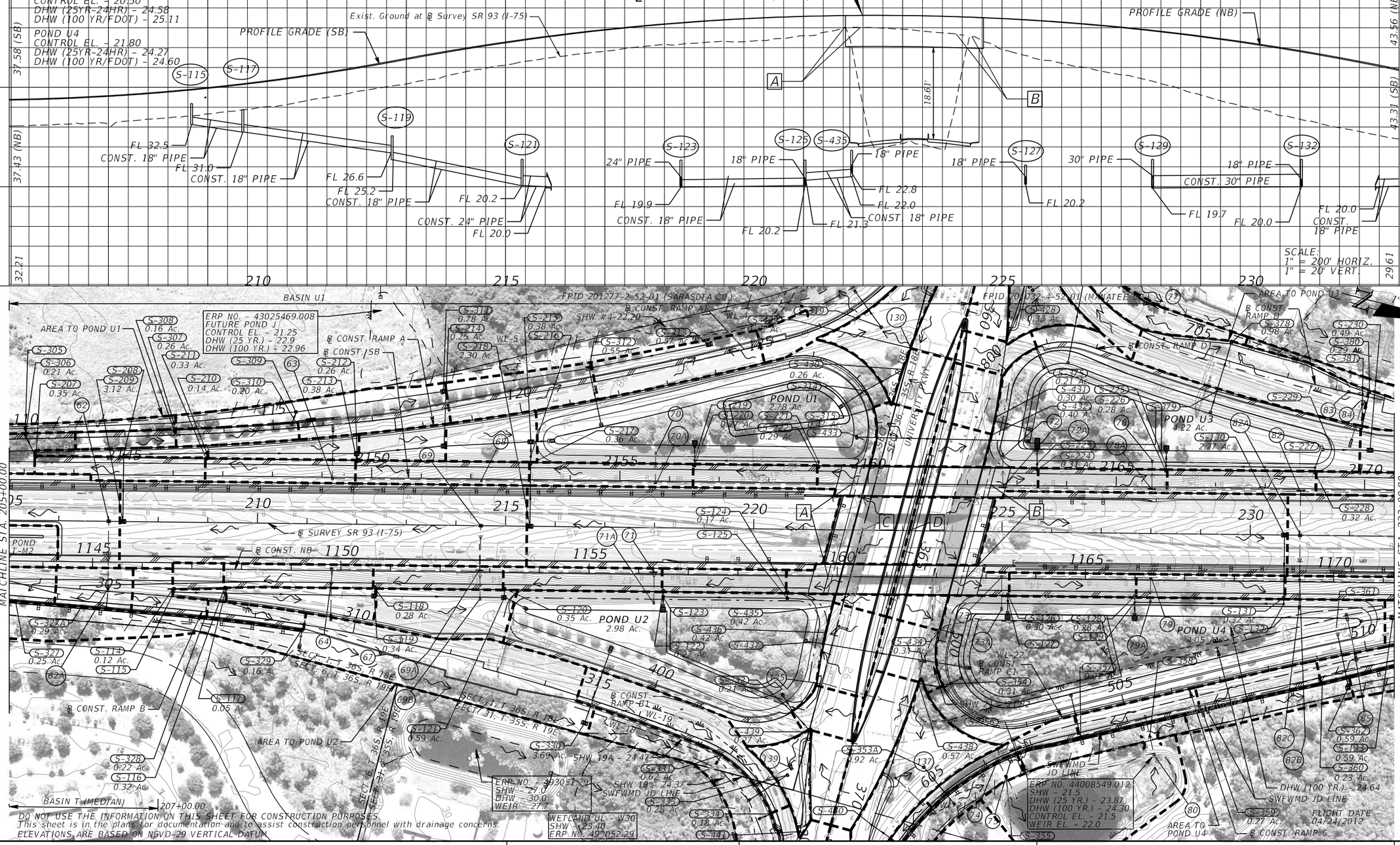
POND U4
CONTROL EL. = 21.80
DHW (25YR-24HR) = 24.27
DHW (100 YR/FDOT) = 24.60

A
BEGIN BRIDGE
SB BRIDGE - NO. 130161
STA. 2159+69.22 ℄ CONST. SB
NB BRIDGE - NO. 130160
STA. 1159+81.41 ℄ CONST. NB

C
END PROJECT
END FPID 201277-2-52-01
BEGIN PROJECT
BEGIN FPID 201032-4-52-01
SARASOTA CO. (17075) MP 42.615 =
MANATEE CO. (13075) MP 0.000
STA. 222+19.33 ℄ SURVEY SR 93 (I-75)

D
℄ SURVEY SR 93 (I-75)
STA. 223+13.46 =
℄ SURVEY UNIVERSITY PKWY.
STA. 364+57.79

B
END BRIDGE
SB BRIDGE - NO. 130161
STA. 2162+47.22 ℄ CONST. SB
NB BRIDGE - NO. 130160
STA. 1162+59.41 ℄ CONST. NB



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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

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SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (7)

SHEET NO. 22

jocampbe 2/19/2015 10:42:14 AM PW:\010917\CON0069518\000000000178241\13.00_CAD\20103245201\drainage\DRMPRD07.

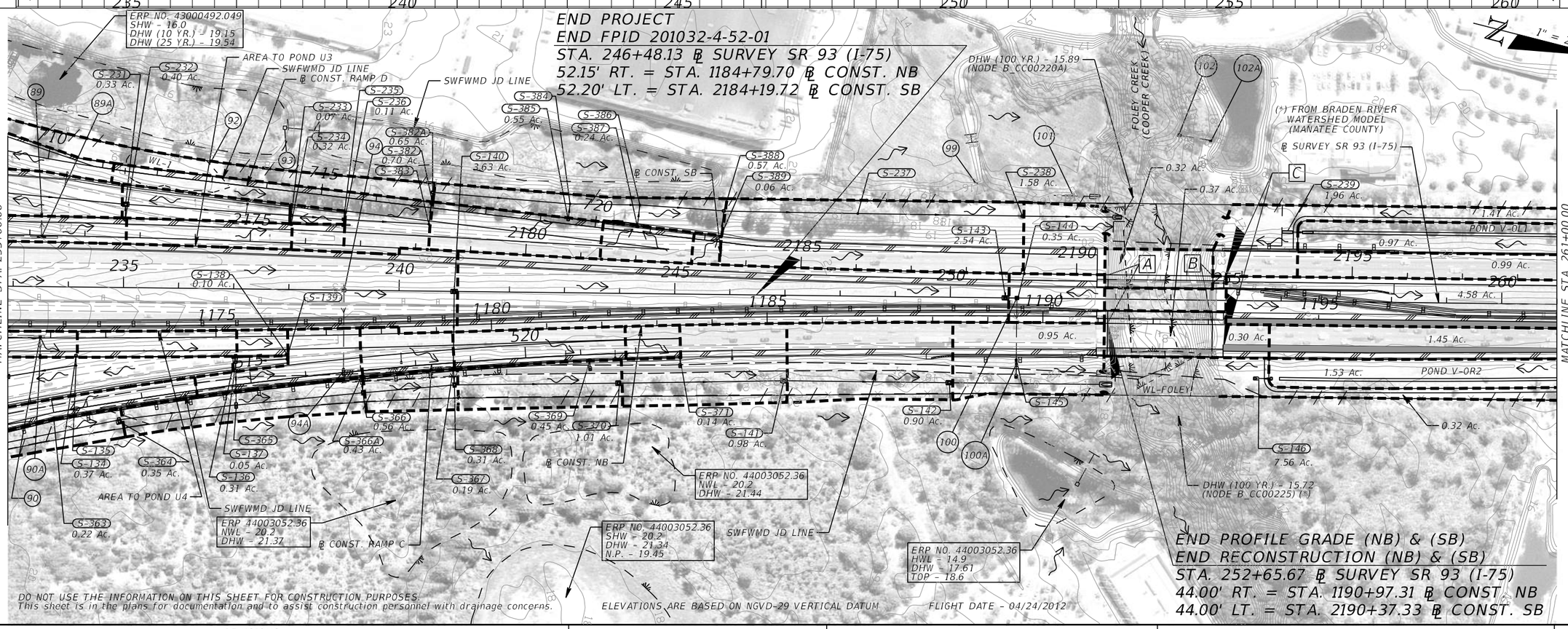
A BEGIN BRIDGE
SB BRIDGE NO. 130070
STA. 2190+57.33 ℄ CONST. SB
NB BRIDGE NO. 130071
STA. 1191+17.31 ℄ CONST. NB

B END BRIDGE
SB BRIDGE NO. 130070
STA. 2192+47.33 ℄ CONST. SB
NB BRIDGE NO. 130071
STA. 1193+07.31 ℄ CONST. NB

C BEGIN MILLING &
RESURFACING (NB & SB)
BEGIN INSIDE &
OUTSIDE WIDENING (NB)
STA. 254+75.65
℄ SURVEY SR 93 (I-75)
44.00' RT. = STA. 1193+27.31
℄ CONST. NB
44.00' LT. = STA. 2192+67.33
℄ CONST. SB

END PROJECT
END FPID 201032-4-52-01
STA. 246+48.13 ℄ SURVEY SR 93 (I-75)
52.15' RT. = STA. 1184+79.70 ℄ CONST. NB
52.20' LT. = STA. 2184+19.72 ℄ CONST. SB

END PROFILE GRADE (NB) & (SB)
END RECONSTRUCTION (NB) & (SB)
STA. 252+65.67 ℄ SURVEY SR 93 (I-75)
44.00' RT. = STA. 1190+97.31 ℄ CONST. NB
44.00' LT. = STA. 2190+37.33 ℄ CONST. SB



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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

FLIGHT DATE - 04/24/2012

END PROFILE GRADE (NB) & (SB)
END RECONSTRUCTION (NB) & (SB)
STA. 252+65.67 ℄ SURVEY SR 93 (I-75)
44.00' RT. = STA. 1190+97.31 ℄ CONST. NB
44.00' LT. = STA. 2190+37.33 ℄ CONST. SB

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (8)

SHEET NO. 23

END CONSTRUCTION (SB)
STA. 269+80.00, 44.00' LT. ℄ SURVEY SR 93 (I-75) =
STA. 2207+51.66 ℄ CONST. SB

END CONSTRUCTION (NB)
STA. 281+68.36, 44.00' RT.
℄ SURVEY SR 93 (I-75) =
STA. 1220+00.00 ℄ CONST. NB

Exist. Ground at ℄ Survey SR 93 (I-75)

Exist. 18" Pipe

FL - 17.44

21.85

20.04

SCALE:
1" = 200' HORIZ.
1" = 20' VERT.

60 40 20 0

265 270 275 280 285

BASIN V (LT.)

STA. 2214+71.00

POND V-0L1
BOTTOM EL. 18.00
CONTROL EL. 19.00
WEIR EL. 19.25
TOP OF BERM EL. 22.60
DHW 25YR.-24HR. = 20.63
DHW 100YR.-8HR. = 20.95

SWFWMD JD LINE

1.41 Ac.

POND V-0L1

0.97 Ac.

0.99 Ac.

19.40

WL-A

2200

2205

265

1200

1205

1.45 Ac.

1.53 Ac.

POND V-0R2

0.32 Ac.

18.7

S-147

4.58 Ac.

103

103A

SWFWMD JD LINE

POND V-0R2
BOTTOM EL. 17.10
CONTROL EL. 18.70
WEIR EL. 19.02
TOP OF BERM EL. 20.30
DHW 25YR.-24HR. = 19.91
DHW 100YR.-8HR. = 19.96

MATCHLINE STA. 261+00.00

END CONSTRUCTION (SB)
STA. 269+80.00 ℄ SURVEY SR 93 (I-75) =
STA. 2207+51.66, 44.00' LT. ℄ CONST. SB

SWFWMD JD LINE

3.49 Ac.

WL-B

4.58 Ac.

1210

1215

2.55 Ac.

92A

SECT. 36 T. 35S. R. 18E

SECT. 25 T. 35S. R. 18E

STA. 1215+74.00

WL-C

103E

SWFWMD JD LINE

BASIN V (MED. & RT.)

(*) FROM BRADEN RIVER
WATERSHED MODEL
(MANATEE COUNTY)

1" = 200'

SB I-75 WIDENING FROM STA. 2192+67.33
NB I-75 WIDENING FROM STA. 1215+73.71
TO BE CONSTRUCTED UNDER PROJECT
FPID 201032-2-52-01

BOUNDARY CONDITION (*)
DHW (100 YR./24 HR.) - 9.63
(NODE CC33015)

92B

103C

92C

1220

TO
BRADEN
RIVER

BOUNDARY CONDITION (*)
DHW (100 YR./24 HR.) - 6.14
(NODE CC33020)

92D

103B

103D

END CONSTRUCTION (NB)
STA. 281+68.36 ℄ SURVEY SR 93 (I-75) =
STA. 1220+00.00, 44.00' RT. ℄ CONST. NB

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FLIGHT DATE - 04/21/2012

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (9)

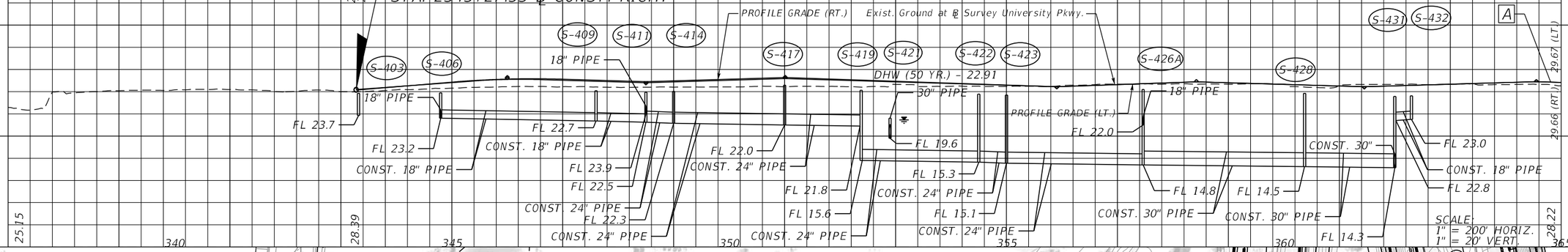
SHEET NO. 24

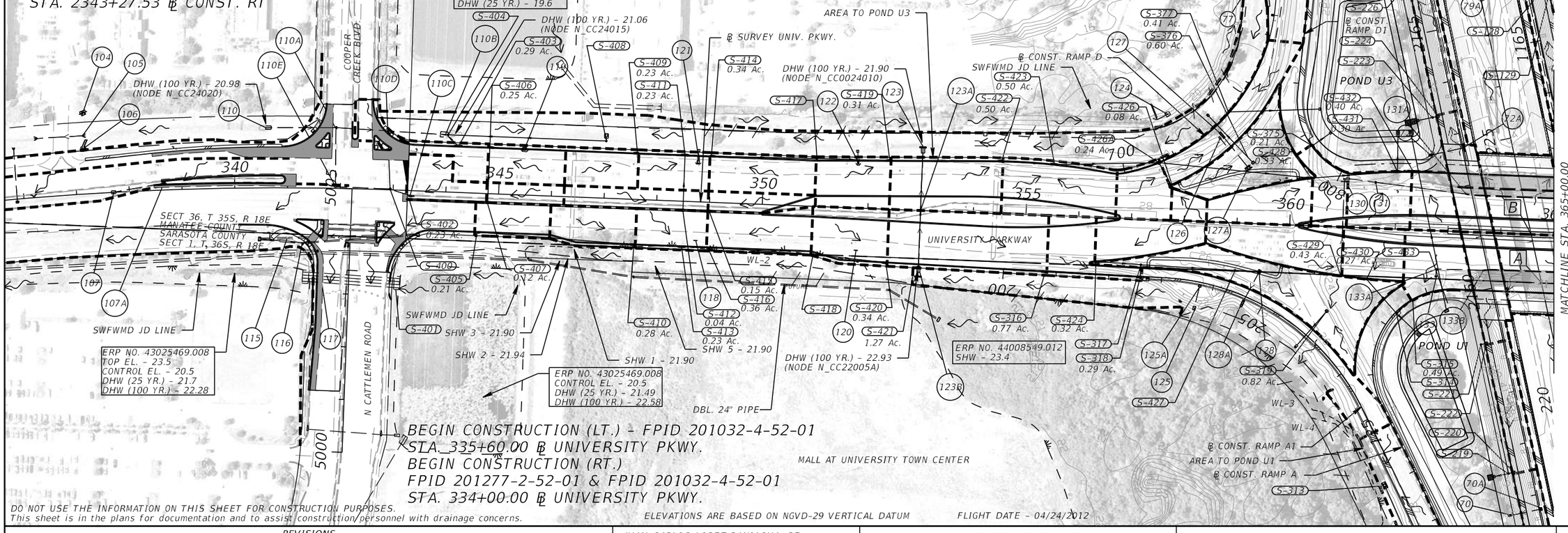
BEGIN CONSTRUCTION (LT.)
FPID 201032-4-52-01
BEGIN MILLING & RESURFACING (LT.)
STA. 335+60.00 ℄ UNIVERSITY PKWY.
BEGIN CONSTRUCTION (RT.)
FPID 201277-2-52-01
FPID 201032-4-52-01
BEGIN MILLING & RESURFACING (RT.)
STA. 334+00.00 ℄ UNIVERSITY PKWY.

BEGIN PROFILE GRADE (LT.) & (RT.)
END MILLING & RESURFACING (LT.) & (RT.)
BEGIN RECONSTRUCTION (LT.) & (RT.)
STA 343+27.53 ℄ SURVEY UNIVERSITY PKWY. =
STA. 1343+27.53 ℄ CONST. LEFT
STA. 2343+27.53 ℄ CONST. RIGHT

A MANATEE CO. (13075) MP 0.000 =
SARASOTA CO. (17075) MP 42.615
STA. 364+80.98 ℄ SURVEY UNIVERSITY PKWY. =
STA. 222+19.33 ℄ SURVEY SR 93 (I-75)

B STA. 364+57.79 ℄ SURVEY UNIVERSITY PKWY. =
STA. 223+13.46 ℄ SURVEY SR 93 (I-75)



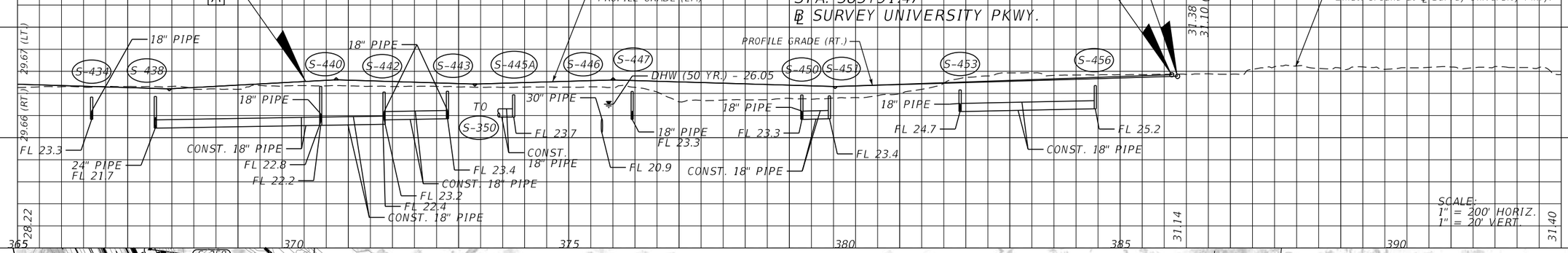

ERP NO. 43000492.049
SHW - 16.0
DHW (10 YR.) - 19.19
DHW (25 YR.) - 19.6
DHW (100 YR.) - 21.06
(NODE N_CC24015)
DHW (100 YR.) - 20.98
(NODE N_CC24020)
DHW (100 YR.) - 21.90
(NODE N_CC0024010)
DHW (100 YR.) - 22.93
(NODE N_CC22005A)
AREA TO POND U3
℄ SURVEY UNIV. PKWY.
℄ CONST. RAMP D
SWFWMD JD LINE
℄ CONST. RAMP D1
POND U3
℄ CONST. RAMP A1
AREA TO POND U1
℄ CONST. RAMP A
POND U1
COOPER CREEK BLVD.
N CATTLEMEN ROAD
UNIVERSITY PARKWAY
SECT 36, T 35S, R 18E
MANATEE COUNTY
SARASOTA COUNTY
SECT 1, T 36S, R 18E
SWFWMD JD LINE
SHW 3 - 21.90
SHW 2 - 21.94
SHW 1 - 21.90
SHW 5 - 21.90
ERP NO. 43025469.008
TOP EL. - 23.5
CONTROL EL. - 20.5
DHW (25 YR.) - 21.7
DHW (100 YR.) - 22.28
ERP NO. 43025469.008
CONTROL EL. - 20.5
DHW (25 YR.) - 21.49
DHW (100 YR.) - 22.58
DBL. 24" PIPE
ERP NO. 44008549.012
SHW - 23.4
WL-2
WL-3
WL-4
MALL AT UNIVERSITY TOWN CENTER
MATCHLINE STA. 365+00.00
1" = 200'
N
S-379
S-378
S-377
0.41 Ac.
S-376
0.60 Ac.
S-375
0.21 Ac.
S-428
0.33 Ac.
S-426
0.08 Ac.
S-426A
0.24 Ac.
S-423
0.50 Ac.
S-422
0.50 Ac.
S-419
0.31 Ac.
S-414
0.34 Ac.
S-411
0.23 Ac.
S-409
0.23 Ac.
S-406
0.25 Ac.
S-404
0.29 Ac.
S-402
0.23 Ac.
S-405
0.21 Ac.
S-407
0.12 Ac.
S-417
0.15 Ac.
S-416
0.36 Ac.
S-412
0.04 Ac.
S-413
0.23 Ac.
S-410
0.28 Ac.
S-418
S-420
0.34 Ac.
S-421
1.27 Ac.
S-316
0.77 Ac.
S-424
0.32 Ac.
S-317
S-318
0.29 Ac.
S-319
0.82 Ac.
S-427
S-429
0.43 Ac.
S-430
0.27 Ac.
S-433
S-432
0.40 Ac.
S-431
0.30 Ac.
S-226
S-225
S-224
S-223
S-222
S-220
S-219
S-315
0.49 Ac.
S-314
S-313
S-128
S-129
S-227
5000
5025
5050
5075
5100
5125
5150
5175
5200
5225
5250
5275
5300
5325
5350
5375
5400
5425
5450
5475
5500
5525
5550
5575
5600
5625
5650
5675
5700
5725
5750
5775
5800
5825
5850
5875
5900
5925
5950
5975

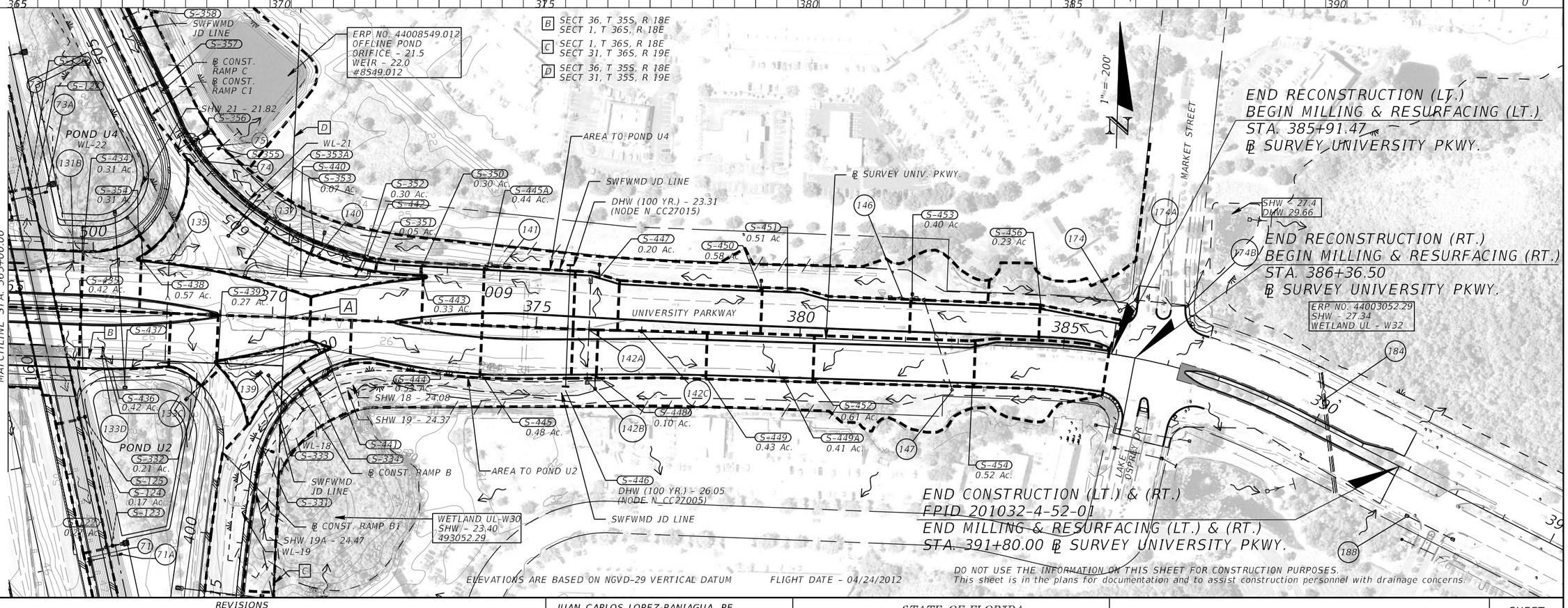
A END CONSTRUCTION (RT.)
FPID 210277-2-52-01
STA. 370+23.16
℄ SURVEY UNIVERSITY PKWY.

END PROFILE GRADE (RT.)
END RECONSTRUCTION (RT.)
BEGIN MILLING & RESURFACING (RT.)
STA. 386+36.50
℄ SURVEY UNIVERSITY PKWY.

END PROFILE GRADE (LT.)
END RECONSTRUCTION (LT.)
BEGIN MILLING & RESURFACING (LT.)
STA. 385+91.47
℄ SURVEY UNIVERSITY PKWY.

END CONSTRUCTION (LT.) & (RT.)
FPID 201032-4-52-01
END MILLING & RESURFACING (LT.) & (RT.)
STA. 391+80.00
℄ SURVEY UNIVERSITY PKWY.





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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM FLIGHT DATE - 04/24/2012

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (11)

SHEET NO. 26

A END FPID 201277-2-52-01
BEGIN FPID 201032-4-52-01
SARASOTA CO. (17075) MP 42.615 =
MANATEE CO. (13075) MP 0.000
STA. 222+19.33 ℄ SURVEY SR 93 (I-75)

B ℄ SURVEY SR 93 (I-75)
STA. 223+13.46 =
℄ SURVEY UNIVERSITY PKWY.
STA. 364+57.79

C END FPID 201277-2-52-01
BEGIN FPID 201032-4-52-01
SARASOTA CO. (17075) =
MANATEE CO. (13075)
STA. 2160+14.00
℄ CONST. SB

D END FPID 201277-2-52-01
BEGIN FPID 201032-4-52-01
SARASOTA CO. (17075) =
MANATEE CO. (13075)
STA. 1166+26.28
℄ CONST. NB

FPID 201277-2-52-01 (SARASOTA CO.)

FPID 201032-4-52-01 (MANATEE CO.)

1" = 200'

POND U1
CONTROL EL. - 22.20
WEIR EL. - 22.40
GRATE EL. - 24.50
TOP OF BANK EL. - 25.8
DHW (25YR./FLMOD) EL. - 24.79
DHW (100YR./FDOT) EL. - 25.57

POND U3
CONTROL EL. - 20.50
WEIR EL. - 20.70
TOP OF BANK EL. - 25.8
DHW (25YR./FLMOD) EL. - 24.58
DHW (100YR./FDOT) EL. - 25.12

POND U2
CONTROL EL. - 23.80
GRATE EL. - 24.10
TOP OF BANK EL. - 25.85
DHW (25YR./FLMOD) EL. - 24.81
DHW (100YR./FDOT) EL. - 24.97

POND U4
CONTROL EL. - 21.80
WEIR EL. - 22.00
TOP OF BANK EL. - 25.8
DHW (25YR./FLMOD) EL. - 24.27
DHW (100YR./FDOT) EL. - 24.60

WETLAND UL - W30
SHW - 23.40
ERP NO. 493052.29

ERP NO. - 493052.29
SHW - 27.0
DHW - 30.0
WEIR - 27.7

ERP NO. 44008549.012
ORIFICE - 21.50
WEIR - 22.00
DHW (25 YR.) - 23.87
DHW (100 YR.) - 24.30

SHW #4-22.20
SHW 19A - 24.47
SHW 19 - 24.37

RAMP A
RAMP A1
RAMP B
RAMP B1
RAMP C
RAMP C1
RAMP D
RAMP D1
UNIVERSITY PKWY.
SR 93 (I-75)
EXIST. FDOT POND

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES.
This sheet is in the plans for documentation and to assist construction personnel with drainage concerns.
ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

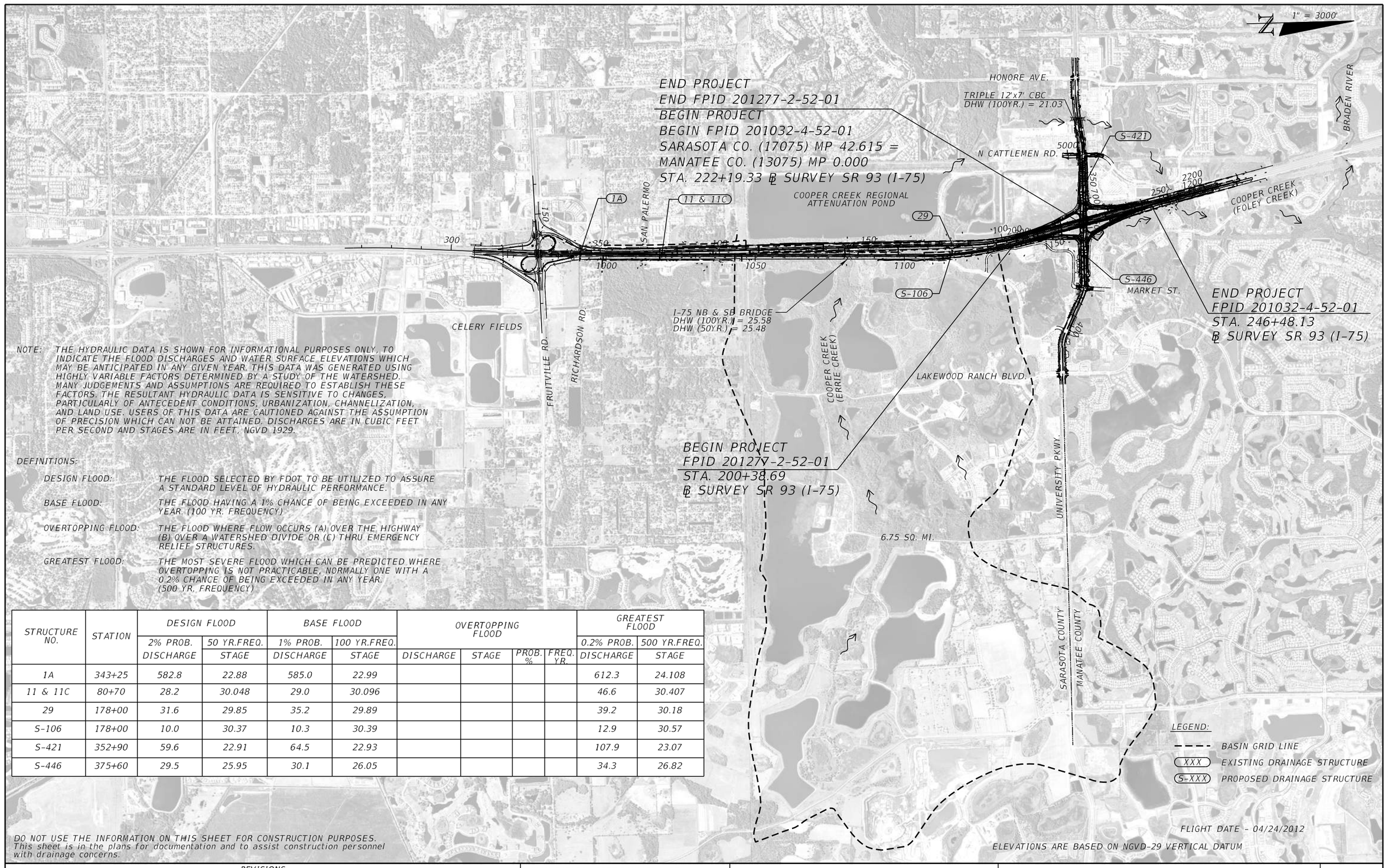
JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

INTERCHANGE DRAINAGE MAP

SHEET NO. 27



NOTE: THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND AND STAGES ARE IN FEET, NGVD 1929.

DEFINITIONS:

DESIGN FLOOD: THE FLOOD SELECTED BY FDOT TO BE UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.

BASE FLOOD: THE FLOOD HAVING A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR. (100 YR. FREQUENCY)

OVERTOPPING FLOOD: THE FLOOD WHERE FLOW OCCURS (A) OVER THE HIGHWAY (B) OVER A WATERSHED DIVIDE OR (C) THRU EMERGENCY RELIEF STRUCTURES.

GREATEST FLOOD: THE MOST SEVERE FLOOD WHICH CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE, NORMALLY ONE WITH A 0.2% CHANCE OF BEING EXCEEDED IN ANY YEAR. (500 YR. FREQUENCY)

STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD	
		2% PROB.	50 YR.FREQ.	1% PROB.	100 YR.FREQ.					0.2% PROB.	500 YR.FREQ.
		DISCHARGE	STAGE	DISCHARGE	STAGE	DISCHARGE	STAGE	PROB. %	FREQ. YR.	DISCHARGE	STAGE
1A	343+25	582.8	22.88	585.0	22.99					612.3	24.108
11 & 11C	80+70	28.2	30.048	29.0	30.096					46.6	30.407
29	178+00	31.6	29.85	35.2	29.89					39.2	30.18
S-106	178+00	10.0	30.37	10.3	30.39					12.9	30.57
S-421	352+90	59.6	22.91	64.5	22.93					107.9	23.07
S-446	375+60	29.5	25.95	30.1	26.05					34.3	26.82

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. This sheet is in the plans for documentation and to assist construction personnel with drainage concerns.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

SUPPLEMENTAL DRAINAGE MAP

SHEET NO. 28

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

THIS CONTRACT PLAN SET INCLUDES
ROADWAY PLANS
SIGNING PLANS
STRUCTURE PLANS

A detailed index appears on the Key Sheet of each group of plans.

INDEX OF ROADWAY PLANS

Sheet No.	Sheet Description
1	Key Map
2-4	Drainage Maps
5-7, 7A	Typical Sections
8-10	Summary of Quantities
11	Summary of Drainage Structures
12-20	Plan & Profile
21-34	Interchange, County Line Road
35-43	Drainage Structures
44-45	Roadway Soil Survey
46-162	Cross Sections
163	Miscellaneous Construction Details
164-165	Utility Adjustments
166-173	Clearing and Grubbing

NOTEBOOKS:

Number	Description
18826	Pile Driving, Str. A
019530	Pile Driving, Str. B
019568	Final Measurements, Pipe & Endwalls
019580	Subsoil Exc., Original Cross- Sections
019589	BENCH Line
022427	Misc. Measurements
023936	Regrassing & resodding
023990	Channel Exca.
025007	Roadway Cross Sections

0
025(
025
025

022671

BENCH MARK DATA

MISCELLANEOUS:

Cross Section Plots
Summary of Drainage Str.
Roadway Comp. Book
Subsoil Exc. Booklet
Pile Driving Booklet
Asphalt Measurement Booklet
Area Measurements

INDEX No.	Standard Drawings
SMB-01-1	Median Barrier Details (3 Sheets)
SGR-01-1	Guardrail Construction (5 Sheets)
DMD-01	Miscellaneous Drainage Details (3 Sheets)
DPS-01	Ditch Pavement & Sodding
DDI-01	Ditch Bottom Inlet - Type A
DDI-02	Ditch Bottom Inlet - Type B
DGI-01	Gutter Inlet - Type S
DSB-01	Inlet, Manhole, Junction Box Types J & P
DSD-01	Supplementary Details for Manholes & Inlets (2 Sheets)
DCE-01	Concrete Endwalls
DCE-03	U-Endwalls for Pipe Culverts (5 Sheets)
DCE-04	Flared End Section for Pipe Culverts (2 Sheets)
FLD-01	Fence Location Details
FTA-01-2	Fence, Type A
GEC-01	Erosion Control Devices, Temporary Slope Drains
GTO-01-1	Turnout Details
GEC-03	Erosion Control Devices, Baled Hay or Straw
GEU-01	Embankment Utilization Details
GEC-01	Miscellaneous Roadway Construction Details (2 Sheets)
GRT-01	Standard Details for Ramp Terminals (4 Sheets)
GSA-01	Standard Abbreviations
GSE-01	Superelevation Details
GSS-01	Standard Symbols for Key Maps and Plan Sheets (3 Sheets)
PCG-01	Curb, Curb and Gutter
PEJ-02	Bridge Approach Expansion Joint for Concrete Pavement
PJ-01	Concrete Pavement Joints (3 Sheets)
1930	Approach Slabs
1931	Approach Slabs (2 Sheets)

REVISIONS
Sheet 7 (Revised 6-23-77)

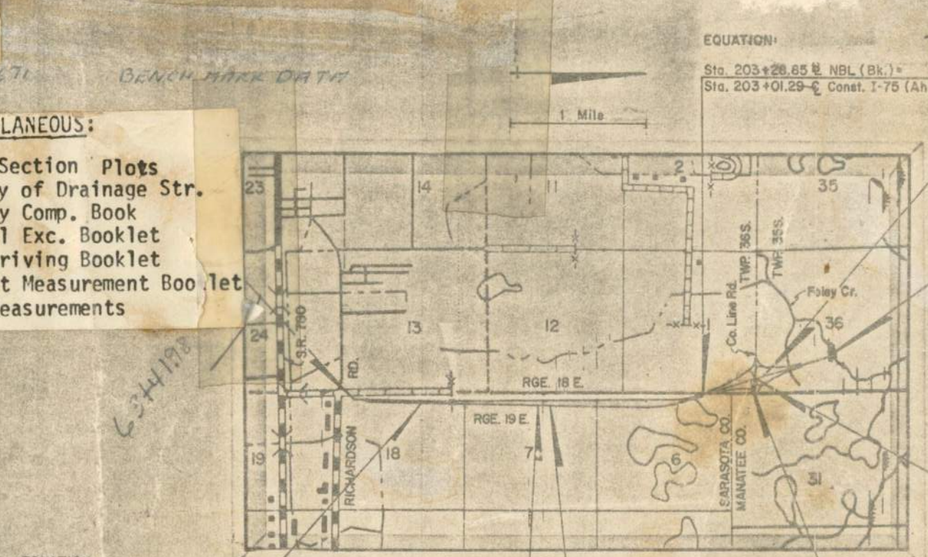
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED

STATE HIGHWAY

F. A. PROJECT NO. I-75-6(23)415
SARASOTA AND MANATEE COUNTIES
STATE ROAD NO. 93

LOCATION OF PROJECT



EQUATION:
Sta. 203+26.65 ℄ NBL (Bk.) =
Sta. 203+01.29 ℄ Const. I-75 (Ahd.)

END BRIDGE
Sta. 224+22.91 ℄ Const. I-75

END STATE PROJECT NO. 13075-3401
STA. 251+00.00 ℄ CONST. I-75

STA. 222+18.77 ℄ CONST. I-75
END STATE PROJECT NO. 17075-3410
BEGIN STATE PROJECT NO. 13075-3401

EQUATION:
Sta. 94+78.22 ℄ Const. I-75 (Bk.) =
Sta. 94+78.22 ℄ NBL (Ahd.)

BEGIN BRIDGE
Sta. 142+31.35 ℄ NBL

END BRIDGE
Sta. 145+73.85 ℄ NBL

BEGIN BRIDGE
Sta. 221+98.41 ℄ Const. I-75

GOVERNING SPECIFICATIONS: STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED 1977.

Prepared By:
GEE & JENSON
CONSULTING ENGINEERS, INC.

ATTENTION IS DIRECTED TO THESE PLANS MAY BE SIZE BY REPRODU CONSIDERED WH

APPROVED
DIVISION ENGIN
FEDERAL HIGHW

SUBMITTED BY
Director of Road Operations

LENGTH OF PROJECTS

	PROJECT NO. 17075-3410		PROJECT NO. 13075-3401		TOTAL	
	LIN. FT.	MILES	LIN. FT.	MILES	LIN. FT.	MILES
ROADWAY	15537.35	2.943	2881.23	0.545	18418.58	3.488
BRIDGES	367.00	0.069	0.00	0.000	367.00	0.069
NET LENGTH OF PROJECT	15904.35	3.012	2881.23	0.545	18785.58	3.557
EXCEPTIONS	0.00	0.000	0.00	0.000	0.00	0.000
GROSS LENGTH OF PROJ.	15904.35	3.012	2881.23	0.545	18785.58	3.557

Note-Length Of Project Is Measured Along ℄ Construction and ℄ Northbound Roadway.

THIS CONTRACT PLAN SET INCLUDES:

ROADWAY PLANS
SIGNING PLANS
STRUCTURE PLANS

A detailed index appears on the Key Sheet of each group of plans.

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DDI-01	Ditch Bottom Inlet - Type A
DDI-02	Ditch Bottom Inlet - Type B
DGI-01	Gutter Inlet - Type B
DSB-01	Inlet, Manhole, Junction Box Types J & P
DSD-01	Supplementary Details for Manholes & Inlets (2 Sheets)
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DCE-03	U-Endwalls for Pipe Culverts (3 Sheets)
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FTA-01-2	Fence, Type A
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GTO-01-1	Turnout Details
GEC-05	Erosion Control Devices, Baled Hay or Straw
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GRC-01	Miscellaneous Roadway Construction Details (2 Sheets)
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11930	Approach Slabs
11931	Approach Slabs (2 Sheets)

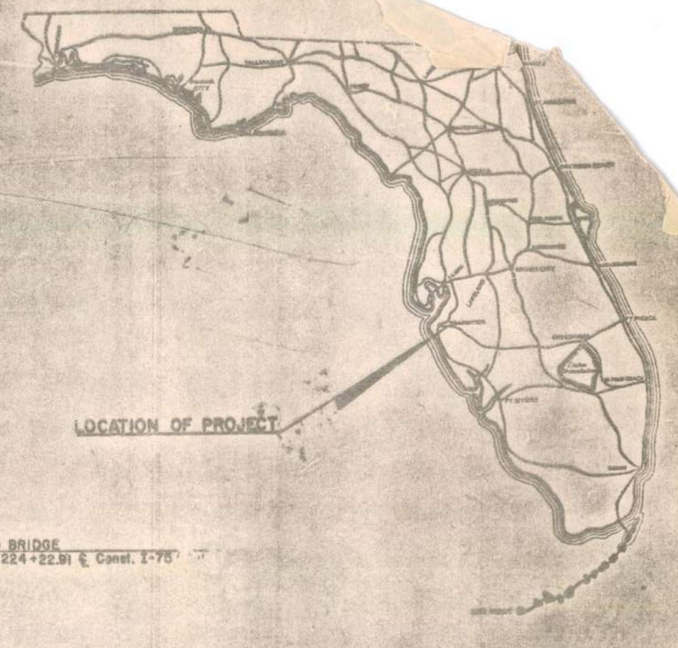
REVISIONS
Sheet 7 (Revised 6-23-77)
Sheets 3,5,7,9 & 10 (Revised 7-12-77)

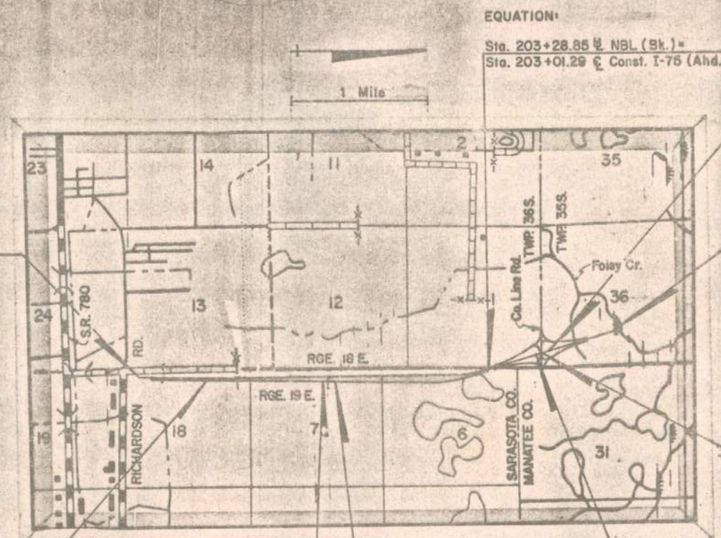
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED

STATE HIGHWAY

F. A. PROJECT NO. I-75-6(23)415
SARASOTA AND MANATEE COUNTIES
STATE ROAD NO. 93





GOVERNING SPECIFICATIONS: STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 1977.

LENGTH OF PROJECTS

	PROJECT NO. 17075-3410		PROJECT NO. 13075-3401		TOTAL	
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BRIDGES	367.00	0.069	0.00	0.000	367.00	0.069
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EXCEPTIONS	0.00	0.000	0.00	0.000	0.00	0.000
GROSS LENGTH OF PROJ.	15904.35	3.012	2881.23	0.545	18785.58	3.557

Note-Length Of Project is Measured Along ℄ Construction and ℄ Northbound Roadway.

SUBMITTED BY
Jay W. Brown
DIRECTOR OF ROAD OPERATIONS

Prepared By:
GEE & JENSON...
CONSULTING ENGINEERS, INC.

ATTENTION IS DIRECTED TO THE FACT TH
THESE PLANS MAY HAVE BEEN REDUCED
SIZE BY REPRODUCTION. THIS MUST
CONSIDERED WHEN OBTAINING SCALED D

APPROVED [redacted] DATE
DIVISION ENGINEER
FEDERAL HIGHWAY ADMINISTRATION

THIS CONTRACT PLAN SET INCLUDES

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Sheet 7 (Revised 6-23-77)
Sheets 3&7,9 & 10 (Revised 7-12-77)
Sheet 8 (Revised 8-10-77)

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

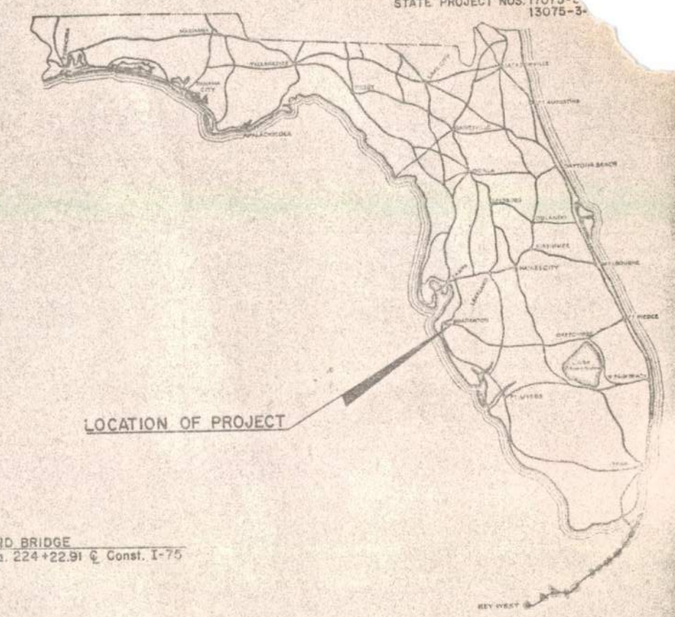
PLANS OF PROPOSED

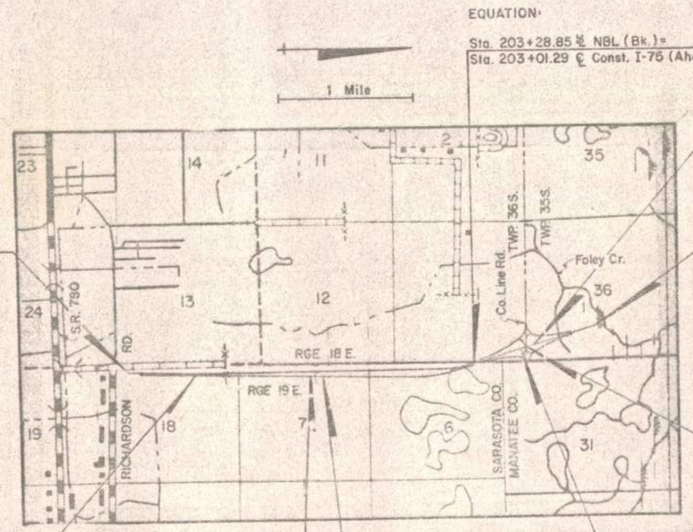
STATE HIGHWAY

F. A. PROJECT NO. I-75-6(23)415
SARASOTA AND MANATEE COUNTIES
STATE ROAD NO. 93

FED. ROAD DIV. NO.	STATE	STATE PROJECT
3	FLA.	

STATE PROJECT NOS. 17075-3410
13075-3401





GOVERNING SPECIFICATIONS: STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 1977.

Prepared By:
GEE & JENSON...
CONSULTING ENGINEERS, INC.

LENGTH OF PROJECTS

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	LIN. FT.	MILES	LIN. FT.	MILES	LIN. FT.	MILES
ROADWAY	15537.35	2.943	2881.23	0.545	18418.58	3.488
BRIDGES	367.00	0.069	0.00	0.000	367.00	0.069
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Note: Length Of Project Is Measured Along ℄ Construction and ℄ Northbound Roadway.

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SUBMITTED BY

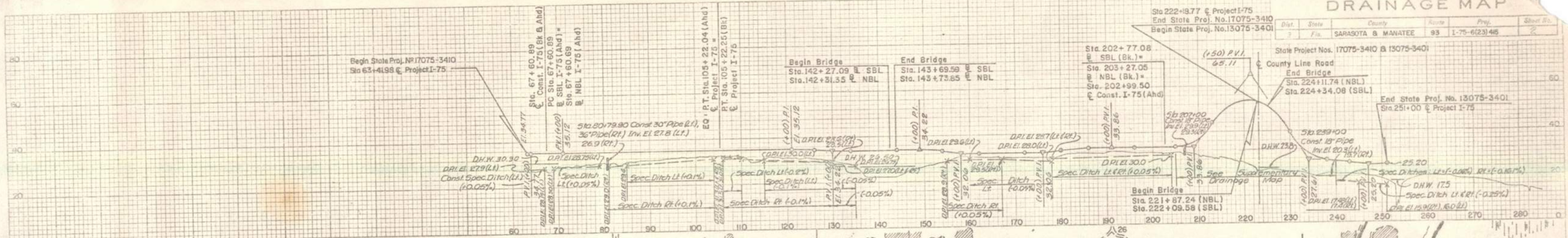
DIRECTOR OF ROAD OPERATIONS

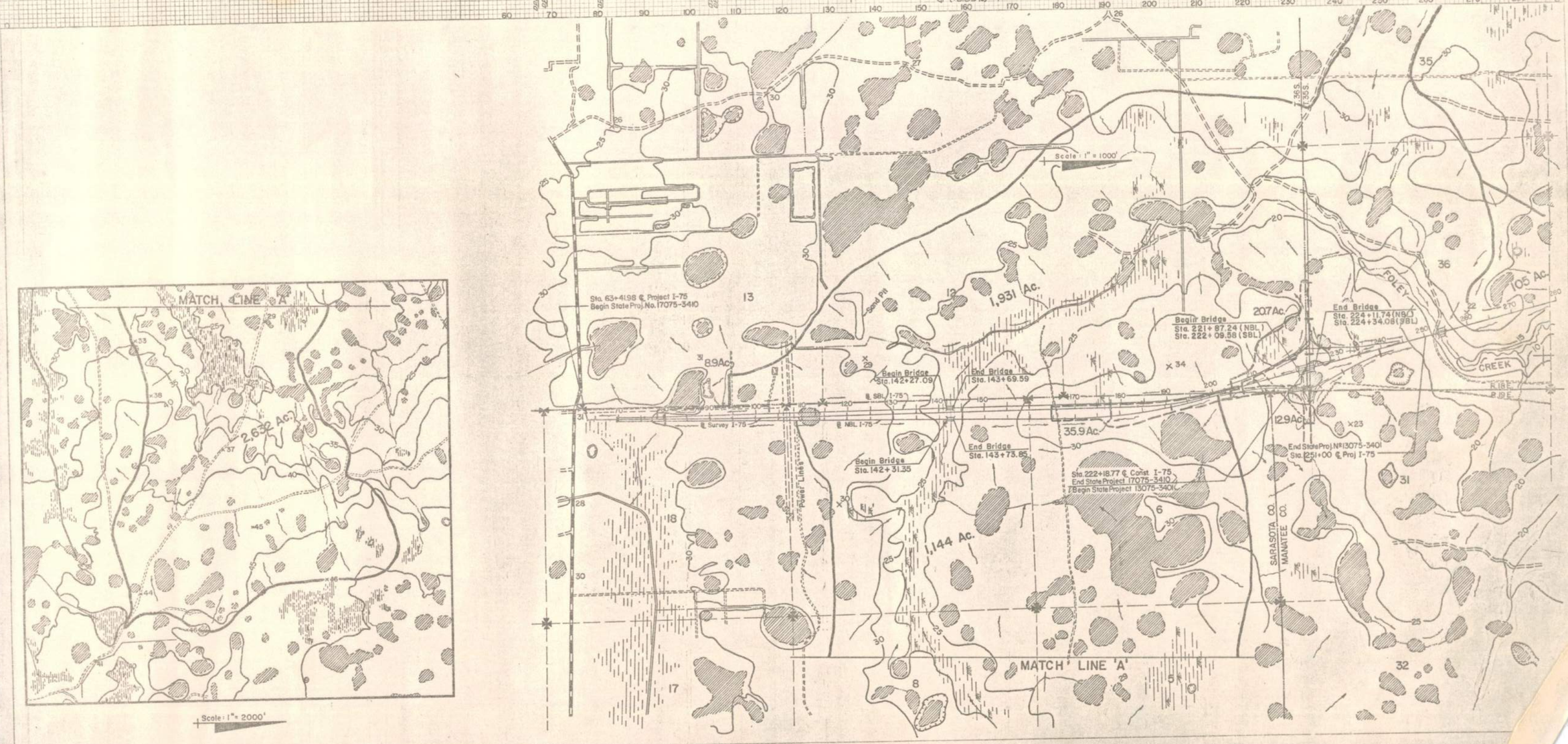
APPROVED DATE

DIVISION ENGINEER
FEDERAL HIGHWAY ADMINISTRATION

DRAINAGE MAP

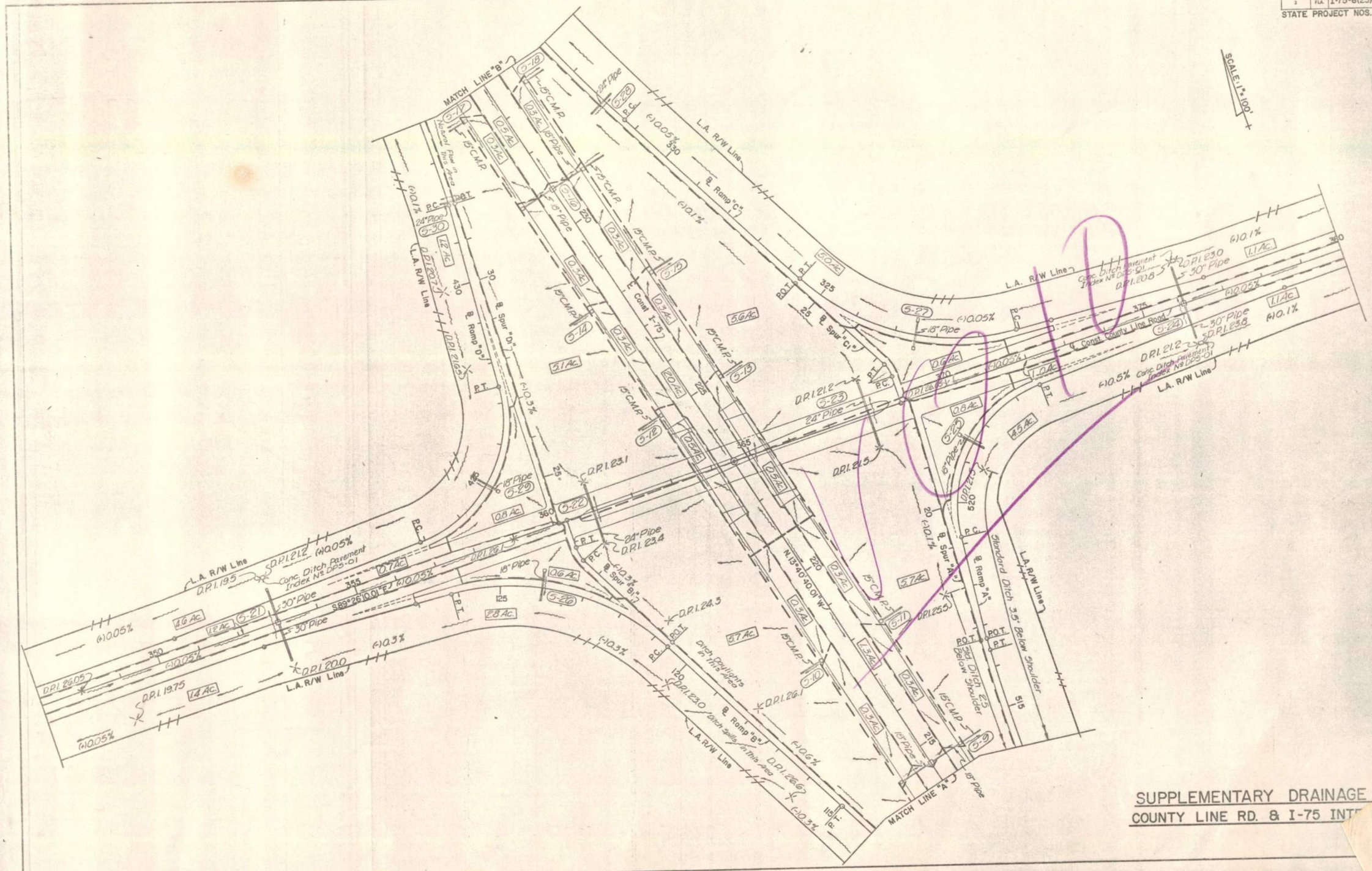
Dist.	State	County	Route	Proj.	Sheet No.
7	Fla.	SARASOTA & MANATEE	93	I-75-6(23)46	2





FED. ROAD DIV. No.	STATE	PROJECT No.	FISCAL YEAR	SHEET No.
3	FLA.	I-75-6(23)415		3

STATE PROJECT NOS. 17075-3410 &
13075-3401



SUPPLEMENTARY DRAINAGE M
COUNTY LINE RD. & I-75 INT

STATE PROJECT

SCALE: 1" = 100'

MATCH LINE "B"

MATCH LINE "A"

L.A. R/W Line

℄ Ramp "C"

℄ Ramp "D"

℄ Spur "D"

℄ Spur "C"

℄ Ramp "B"

℄ Spur "B"

℄ Ramp "A"

℄ Spur "A"

℄ Const. County Line Road

Standard Ditch 3.5' Below Shoulder

Ditch Profile & Inlets

Ditch Profile & Inlet

Ditch Profile

Standard Ditch 2.3' Below Shoulder

15" CMP

18" CMP

24" CMP

30" CMP

15" Pipe

18" Pipe

24" Pipe

30" Pipe

36" Pipe

D.R.I. 19.5

D.R.I. 19.75

D.R.I. 20.0

D.R.I. 20.5

D.R.I. 21.2

D.R.I. 21.5

D.R.I. 22.0

D.R.I. 22.5

D.R.I. 23.1

D.R.I. 23.4

D.R.I. 23.9

D.R.I. 24.3

D.R.I. 24.6

D.R.I. 25.2

D.R.I. 25.6

D.R.I. 26.0

D.R.I. 26.05

N 15°40'40.01"W

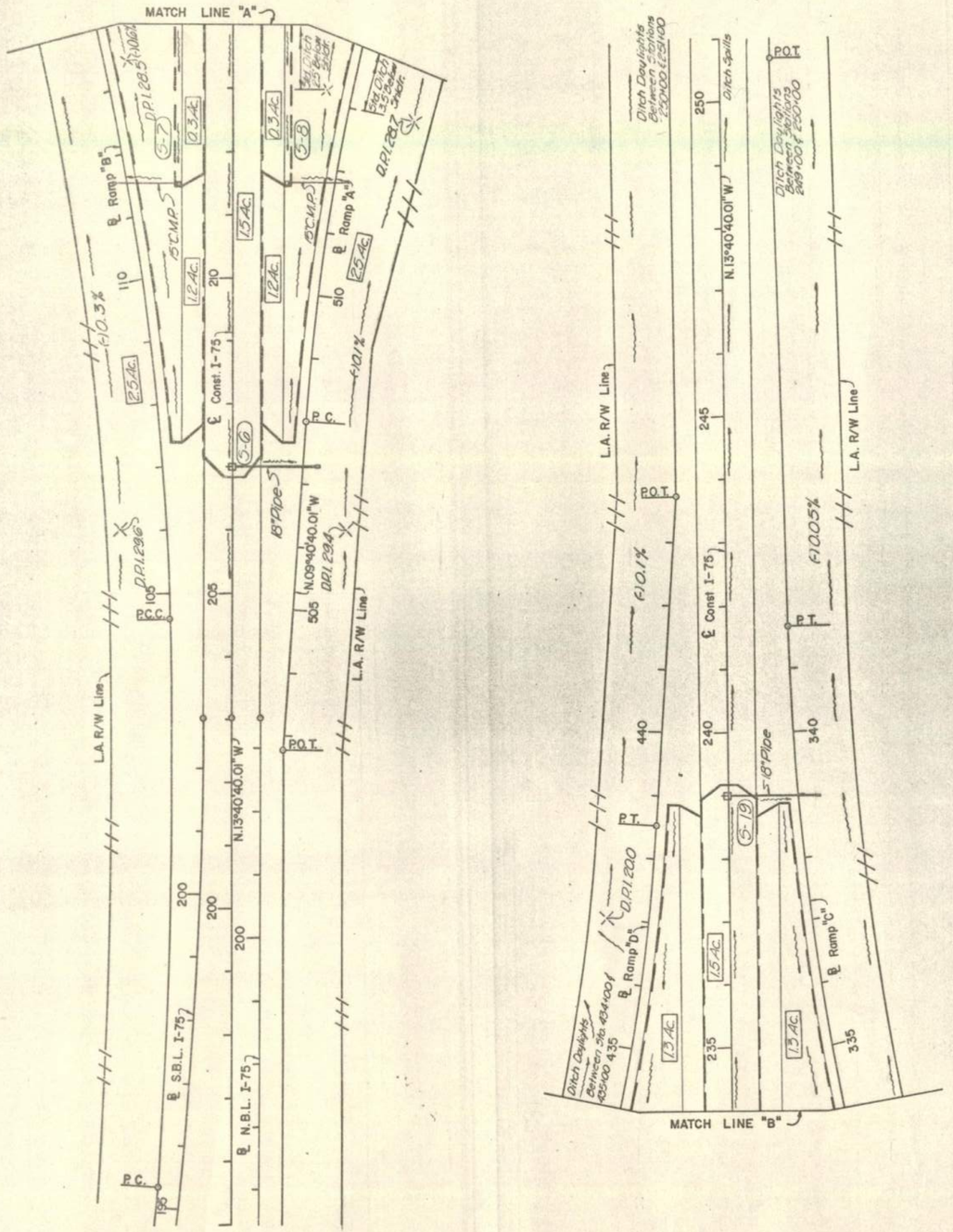
S 89°28'10.01"E

SUPPLEMENTARY DRAINAGE MAP

COUNTY LINE RD. & I-75 INTERCHA

FED. ROAD DIV. NO.	STATE	PROJECT No.
3	FLA.	I-75-6(23)415

STATE PROJECT NOS. 17075-3410 & 13075-3401



SUPPLEMENTARY DRAINAGE MAP
COUNTY LINE RD. & I-75 INTERCHAN

CONSTRUCTION CONTRACT NO. T1621

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
INTELLIGENT TRANSPORTATION SYSTEMS PLANS
LIGHTING PLANS
STRUCTURE PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

LIST OF REVISED INDEX DRAWINGS

INDEX NO.	SHEET NO.	INDEX NO.	SHEET NO.
501	N/A	17302	1 of 1
600	1-12 of 12	17347	1-5 of 5
11200	3 of 3	17727	2 of 2
11860	4 of 8	17841	1 of 1
13417	1 of 1		

GOVERNING STANDARDS AND SPECIFICATIONS:
Florida Department of Transportation, 2015 Design Standards and revised Index Drawings as appended herein, and January 2015 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following web site:
http://www.dot.state.fl.us/rddesign/

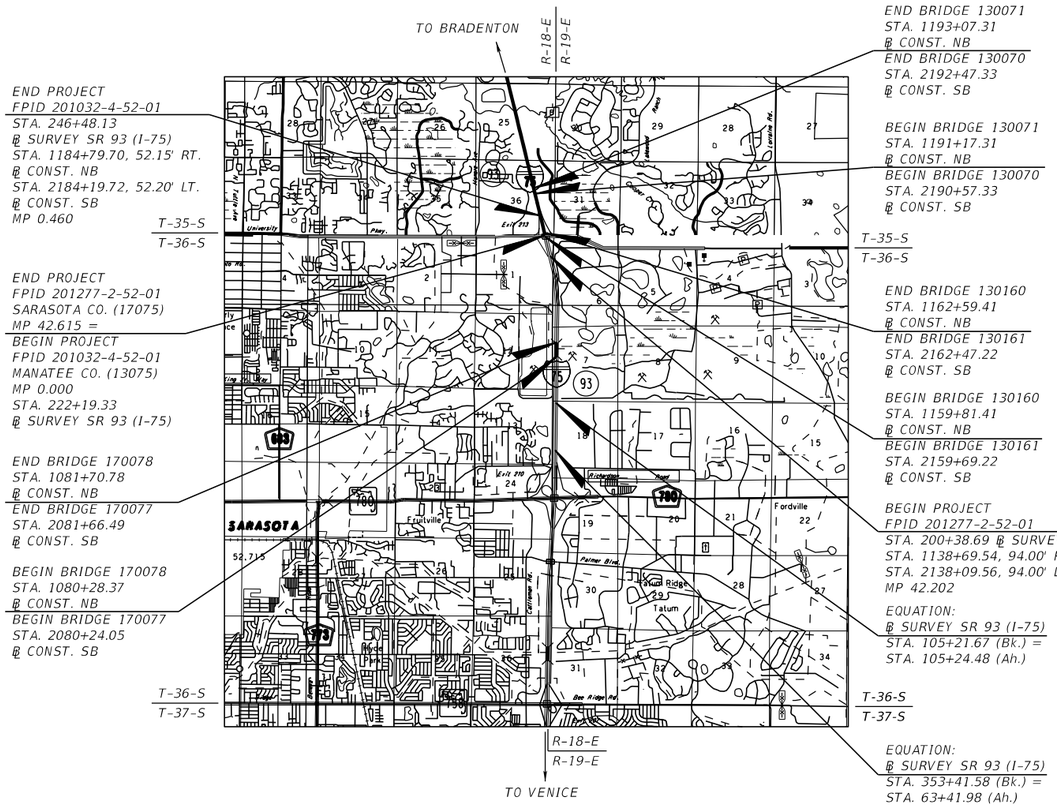
For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
http://www.dot.state.fl.us/specificationsoffice/

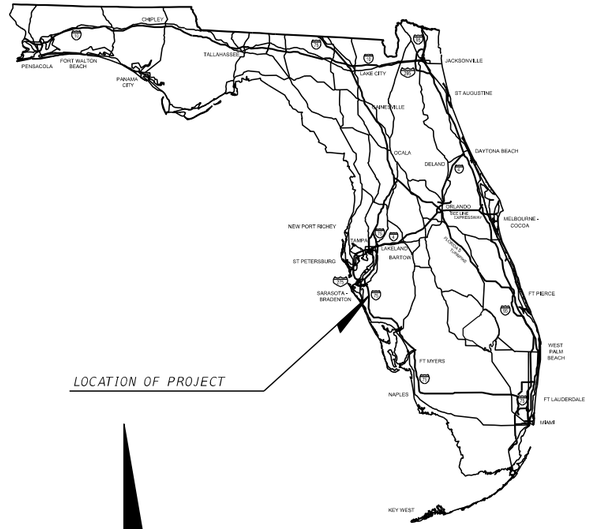
REVISIONS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 201032-4-52-01
FINANCIAL PROJECT ID 201277-2-52-01
(FEDERAL FUNDS)
MANATEE COUNTY (13075)
SARASOTA COUNTY (17075)
STATE ROAD NO. 93





ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
DONALD R. HOLCOMB, PE
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232

PLANS PREPARED BY:
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
(941) 342-2700
WWW.HDRINC.COM
FBPR CERTIFICATE OF AUTHORIZATION NO. 4213
VENDOR NO. 47-0680568
CONTRACT NO. C9480

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

NOTE: THIS PROJECT TO BE LET TO CONTRACT WITH FINANCIAL PROJECT ID 201032-4-56-01

LENGTH OF PROJECT

	FPID 201277-2-52-01		FPID 201032-4-52-01		TOTAL	
	LINEAR FT	MILES	LINEAR FT	MILES	LINEAR FT	MILES
ROADWAY	2,180.64	0.413	2,428.80	0.460	4,609.44	0.873
BRIDGES	0.00	0.000	278.00	0.053	278.00	0.053
NET LENGTH OF PROJECT	2,180.64	0.413	2,706.80	0.513	4,887.44	0.926
EXCEPTIONS	0.00	0.000	0.00	0.000	0.00	0.000
GROSS LENGTH OF PROJECT	2,180.64	0.413	2,706.80	0.513	4,887.44	0.926

FDOT PROJECT MANAGER: KEVIN S. INGLE, PE

KEY SHEET REVISIONS	
DATE	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: DONALD R. HOLCOMB, PE

PE NO.: 51970

FISCAL YEAR	SHEET NO.
15	1

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A BEGIN WIDENING (SB)
STA. 341+48.00, 44.79' LT. ℄ SURVEY SR 93 (I-75) =
STA. 1989+48.00, ℄ CONST. SB

BEGIN CONSTRUCTION (SB)
STA. 337+00.00 ℄ SURVEY SR 93 (I-75)

A

BEGIN CONSTRUCTION (NB)
STA. 343+40.00 ℄ SURVEY SR 93 (I-75)

℄ SURVEY SR 93 (I-75)
EQUATION:
353+41.58 BK. =
63+41.98 AH.

Exist. Ground at ℄ Survey SR 93 (I-75)

DHW (50 YR.) - 22.88

Exist. 8'x10' CBC

FL - 10.36

SCALE:
1" = 200' HORIZ.
1" = 20' VERT.

49.56

31.63

60
40
20
0

330 335 340 345 350

BEGIN CONSTRUCTION (SB)
STA. 337+00.00
℄ SURVEY SR 93 (I-75)

FRUITVILLE ROAD

160

165

SR 780

SECT. 24, T 36S, R 18E
SECT. 19, T 36S, R 19E

100-YR. FLOODPLAIN
EL. 22.64
(SARASOTA COUNTY)

DHW (100 YR.) = 22.85
(NODE 32602) (*)

BASIN R
ERP NO. 4010177.000
SHW - 28.2
DHW - 29.88
CONTROL EL. - 28.2

N CATTLEMEN RD.

RICHARDSON RD.

SECT. 24, T 36S, R 18E
SECT. 18, T 36S, R 19E

℄ CONST. SB

℄ SURVEY
SR 93 (I-75)

8.30 Ac.

1980 1985 1990 1995 2000

1000

32.0

30.0

S-100
8.30 Ac.

WL-11

MATCHLINE STA. 65+00.00

℄ CONST. NB

SWFWMD JD LINE

A ℄ SURVEY SR 93 (I-75)
EQUATION:
353+41.58 BK. =
63+41.98 AH.

(*) FROM PHILLIPPI CREEK
WATERSHED MODEL
(SARASOTA COUNTY).

FLIGHT DATE - 04/24/2012

1" = 200'

1A 1B 1C 1D 1 2 3 4 5 6 7

BEGIN CONSTRUCTION (NB)
STA. 343+40.00
℄ SURVEY SR 93 (I-75)

100-YR. FLOODPLAIN
EL. 22.64
(SARASOTA COUNTY) (*)

PHILLIPPI CREEK

SECT. 19, T 36S, R 19E
SECT. 18, T 36S, R 19E

DHW (100 YR.) = 22.64
(NODE 32601)

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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (1)

SHEET NO. 16

jocampbe 2/19/2015 10:39:43 AM PW:\010917\CON0069518\0000000000178241\13.00_CAD\20103245201\drainage\DRMPRD01.

BEGIN WIDENING (NB)
STA. 67+00.00 ℄ SURVEY SR 93 (I-75)
43.90' RT. = STA. 1005+00.00 ℄ CONST. NB
44.15' LT. = STA. 2005+00.00 ℄ CONST. SB

Exist. Ground at ℄ Survey SR 93 (I-75)

Exist. 36" Pipe

S-101 S-102 S-103

DHW (50 YR.) = 30.05

FL 29.1

FL 29.5

FL 28.8

FL 27.28

CONST. 18" PIPE

CONST. 18" PIPE

SCALE:
1" = 200' HORIZ.
1" = 20' VERT.

60 40 20 0

31.63 70 75 80 85 90 31.65

MARLIN LAKES

BASIN R

SAN PALERMO WAY

ERP NO. 4010177.002
NHW = 28.2
DHW (25 YR.) = 31.0
DHW (100 YR.) = 31.46

DHW (100 YR.) = 30.03
(NODE 32470)

MADRANO DR.

SHW 10 = 29.67
SHW 8 = 29.55
SHW 9 = 29.61

ERP NO. 43032151.000
SHW = 28.3
DHW = 29.87
CONT. EL. = 28.3

ERP NO. 43032151.000
SHW = 28.3
DHW = 29.89
CONT. EL. = 28.3
WEIR = 28.53

SWFWMD JD LINE

1" = 200'

℄ SURVEY SR 93 (I-75)

S-200
5.40 Ac.

1.61 Ac.

1.80 Ac.

POND R-0L1

N CATTLEMEN RD.

℄ CONST. SB

SWFWMD JD LINE

℄ SURVEY
SR 93 (I-75)

SECT. 13, T 36S, R 18E
SECT. 18, T 36S, R 19E

WL-10 WL-9 WL-8

29.8

30.0

MATCHLINE STA. 65+00.00

2005 2010 2015 2020 2025 2030

1005 1010 1015 1020 1025 1030

MATCHLINE STA. 93+00.00

S-102

S-101

S-103
3.66 Ac.

WL-12 WL-13

WENDALL KENT RD.

SWFWMD JD LINE

℄ CONST. NB

SWFWMD JD LINE
100 YR. EL. = 26.176

DHW (100 YR.) = 29.19
(NODE 32471)
SHW 11 = 28.62

POND R-0L1
BOTTOM EL. 28.70
CONTROL EL. 29.70
WEIR EL. 30.00
TOP OF BERM EL. 33.20
DHW 25YR.-24HR. = 31.45
DHW 100YR.-8HR. = 31.68

ERP NO. 44027276.000
NHW = 27.0
DHW (25 YR.) = 31.64
DHW (100 YR.) = 32.10

ERP NO. 44027276.000
SHW = 30.0
DHW = 32.42
DHW = 32.88

CHURCH OF HOPE

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FLIGHT DATE - 04/24/2012

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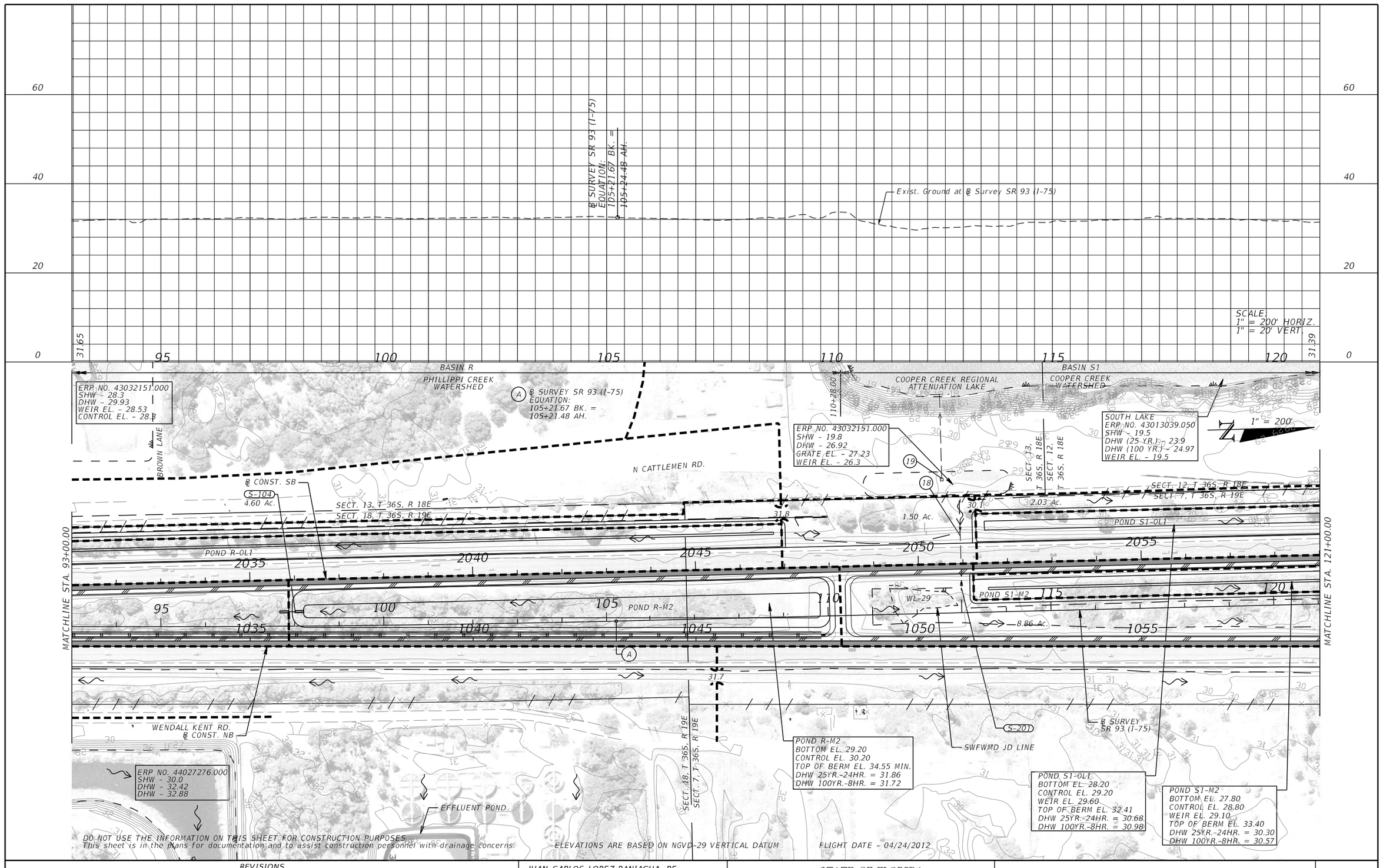
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (2)

SHEET NO. 17

jocampbe 2/19/2015 10:40:12 AM PW:\010917\C0N0069518\000000000178241\13.00_CAD\20103245201\drainage\DRMPRD02.



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REVISIONS			
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PE LICENSE NUMBER 41084
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2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (3)

SHEET NO. 18

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BEGIN BRIDGE
SB BRIDGE – NO. 170077
STA. 2080+24.05 ℄ CONST. SB
NB BRIDGE – NO. 170078
STA. 1080+28.37 ℄ CONST. NB

END BRIDGE
SB BRIDGE – NO. 170077
STA. 2081+66.49 ℄ CONST. SB
NB BRIDGE – NO. 170078
STA. 1081+70.78 ℄ CONST. NB

Exist. Ground at ℄ Survey SR 93 (I-75)

DHW (100 YR.) – 25.57

DHW (50 YR.) – 25.48

ERRIE CREEK

SCALE:
1" = 200' HORIZ.
1" = 20' VERT.

60 40 20 0

31.39

125 130 135 140 145

26.10

BASIN S1

ERP NO. 43032151.000
SHW – 19.8
DHW – 26.42
GRATE EL. – 27.0
WEIR EL. – 26.0

ERP NO. 43032151.000
SHW – 19.8
DHW – 24.66
GRATE EL. – 25.5
WEIR EL. – 24.4

COOPER CREEK REGIONAL ATTENUATION LAKE
DHW (25 YR.) – 23.9
DHW (100 YR.) – 24.97

ERP NO. 43032151.000
SHW – 19.8
DHW – 24.37
GRATE EL. – 25.0
WEIR – 24.0

N CATTLEMEN RD.

℄ CONST. SB

S-202
5.63 Ac.

SECT. 12, T 36S, R 18E

SECT. 7, T 36S, R 19E

2.03 Ac.

2.53 Ac.

POND S1-OL1

POND S1-M2

℄ SURVEY SR 93 (I-75)

15.72 Ac.

8.86 Ac.

S-202A
4.04 Ac.

℄ CONST. NB

100-YR. FLOODPLAIN
EL. 25.57
(MANATEE COUNTY)

SHW 24 – 22.80

SWFWMD JD LINE

SHW 22 – 22.58

SHW 12 & 13 – GONE

SHW 14 – 21.49

(*) DHW (100 YR.) – 25.56
(NODE N_CC00120)

SHW 23 – 22.51

SHW 7 – 20.49

WL-27

WL-26

WL-14

WL-7

0.17 Ac.

0.32 Ac.

24.3

0.45 Ac.

BASIN S2

43+00.00

SWFWMD JD LINE

ERP NO. 43032151.000
SHW – 19.8
DHW – 24.83
GRATE EL. – 25.5
WEIR EL. – 24.5

SHW 5 – 20.04

S-203
4.53 Ac.

1.45 Ac.

POND S2-OL1

5.51 Ac.

POND S2-M2

S-105
3.20 Ac.

(*) DHW (100 YR.) – 25.57
(NODE N_CC00110)

BASIN S2 (MEDIAN)

POND S2-M2
BOTTOM EL. 25.50
CONTROL EL. 26.50
WEIR EL. 26.80
TOP OF BERM EL. 33.10 MIN.
DHW 25YR.-24HR. = 28.18
DHW 100YR.-8HR. = 28.45

(*) FROM BRADEN RIVER WATERSHED MODEL (MANATEE COUNTY).

(COOPER CREEK / ERRIE CREEK)

1" = 200'

MATCHLINE STA. 121+00.00

MATCHLINE STA. 149+00.00

Ⓐ BEGIN BRIDGE
SB BRIDGE – NO. 170077
STA. 2080+24.05 ℄ CONST. SB
NB BRIDGE – NO. 170078
STA. 1080+28.37 ℄ CONST. NB

Ⓑ END BRIDGE
SB BRIDGE – NO. 170077
STA. 2081+66.49 ℄ CONST. SB
NB BRIDGE – NO. 170078
STA. 1081+70.78 ℄ CONST. NB

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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

FLIGHT DATE – 04/24/2012

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (4)

SHEET NO. 19

jocampbe 2/19/2015 10:40:59 AM PW:\010917\C0N0069518\000000000178241\13.00_CAD\20103245201\drainage\DRMPRD04.

END MILLING & RESURFACING (NB)
END WIDENING (NB)
BEGIN RECONSTRUCTION (NB)
BEGIN PROFILE GRADE (NB)
STA. 167+10.61, 207.54' RT.
℄ SURVEY SR 93 (I-75) =
STA. 1105+10.52 ℄ CONST. NB

34.26 (NB)

PROFILE GRADE (NB)

Exist. Ground at ℄ Survey SR 93 (I-75)

34.75 (NB)

SCALE:
1" = 200' HORIZ.
1" = 20' VERT.

26.10

29.92

60 40 20 0

150 155 160 165 170 175

BASIN S2

BASIN S3

COOPER CREEK REGIONAL ATTENUATION LAKE

ERP NO. 43032151.000
SHW - 19.8
DHW - 24.22
GRATE EL. - 25.0
WEIR EL. - 24.0

POND S2-OL1
BOTTOM EL. 26.60
CONTROL EL. 27.60
WEIR EL. 27.90
TOP OF BERM EL. 31.30
DHW 25YR.-24HR. = 29.37
DHW 100YR.-8HR. = 29.70

℄ CONST. SB

S-458 S-459 S-457

℄ SURVEY SR 93 (I-75)

SECT. 12, T 36S, R 18E
SECT. 7, T 36S, R 19E

27.8

1.45 Ac.

POND S2-OL1

POND S2-OL1

2090 2095 2100

163+00.00

ERP NO. 43032151.000
SHW - 19.8
DHW - 24.57
GRATE EL. - 25.0
WEIR EL. - 24.0

SECT. 12, T 36S, R 18E

SECT. 7, T 36S, R 18E

N CATTLEMEN RD.

0.76 Ac.

1" = 200'

OUTFALL TO SOUTH LAKE
GRATE EL. - 25.0
WINDOW EL. - 23.1
FL. - 21.7 (LT)

S-204

3.01 Ac.

SECT. 1, T 36S, R 18E
SECT. 6, T 36S, R 19E

28.0

WL-6

29.2

POND S3-OL1

2105 2110

150 155 160 165 170 175

30.9

5.51 Ac.

11.46 Ac.

POND S3-OL1
BOTTOM EL. 27.50
CONTROL EL. 28.50
WEIR EL. 28.70
TOP OF BERM EL. 32.00
DHW 25YR.-24HR. = 29.92
DHW 100YR.-8HR. = 30.15

1090 1095 1100 1105 1110

POND S2-M2

POND S3-M2

30.7

WL-17

SHW 15 - 26.18

SHW 17 - 26.44

SWFWMD JD LINE

℄ CONST. NB

SECT. 7, T 36S, R 19E

SECT. 6, T 36S, R 19E

167+00.00

END MILLING & RESURFACING (NB)
END WIDENING (NB)
BEGIN RECONSTRUCTION (NB)
STA. 1105+10.52 ℄ CONST. NB
STA. 167+10.61, 207.54' RT.
℄ SURVEY SR 93 (I-75)

POND S3-M2
BOTTOM EL. 27.10
CONTROL EL. 28.10
WEIR EL. 28.40
TOP OF BERM EL. 33.00
DHW 25YR.-24HR. = 30.21
DHW 100YR.-8HR. = 30.59

BASIN S2 (MEDIAN)

BASIN S3 (MEDIAN)

MATCHLINE STA. 149+00.00

MATCHLINE STA. 177+00.00

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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

FLIGHT DATE - 04/24/2012

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (5)

SHEET NO. 20

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END MILLING & RESURFACING (SB)
END WIDENING (SB)
BEGIN RECONSTRUCTION (SB)
BEGIN PROFILE GRADE (SB)
STA. 179+50.70, 108.86' LT.
℄ SURVEY SR 93 (I-75) =
STA. 2117+45.61 ℄ CONST. SB

BEGIN PROJECT
BEGIN FPID 201277-2-52-01
STA. 200+38.69 ℄ SURVEY SR 93 (I-75)
94.00' RT. = STA. 1138+69.54 ℄ CONST. NB
94.00' LT. = STA. 2138+09.56 ℄ CONST. SB

PROFILE GRADE (NB)
PROFILE GRADE (SB)
34.67 (SB)
37.58 (SB)
34.75 (NB)
37.43 (NB)
29.92
32.21
S-106
S-108
S-109
S-110
S-111
S-112
S-113
DHW (50 YR.) - 29.85
36" PIPE
FL 28.07
18" PIPE
FL 30.0
FL 30.2
FL 30.2
FL 30.4
FL 30.6
FL 30.6
Exist. Ground at ℄ Survey SR 93 (I-75)
SCALE:
1" = 200' HORIZ.
1" = 20' VERT.

BASIN S3
BASIN T
BASIN U1
178+00.00
192+20.00
SWFWMD JD LINE
DHW (100 YR.) - 28.76
(NODE N_CC17015) (*)
(*) FROM BRADEN RIVER
WATERSHED MODEL
(MANATEE COUNTY)
MIT M4
CONTROL EL. - 20.5
DHW (25 YR.) - 22.52
DHW (100 YR.) - 23.18
POND T-OL1
BOTTOM EL. 27.80
CONTROL EL. 28.80
WEIR EL. 29.15
TOP OF BERM EL. 32.30
DHW 25YR.-24HR. = 30.76
DHW 100YR.-8HR. = 31.07
POND C2
CONTROL EL. - 20.5
DHW (25 YR.) - 22.52
DHW (100 YR.) - 23.18
BEGIN PROJECT
FPID 210277-2-52-01
STA. 200+38.69 ℄ SURVEY SR 93 (I-75)
94.00' RT. STA. 1138+69.54 ℄ CONST. NB
94.00' LT. STA. 2138+09.56 ℄ CONST. SB
1" = 200'
AREA TO POND U1
℄ CONST. SB
S-206
2.39 Ac.
SECT. 1, T 36S, R 18E
SECT. 6, T 36S, R 19E
1.68 Ac.
0.35 Ac.
9.20 Ac.
4.89 Ac.
S-205
2.49 Ac.
S-107
6.96 Ac.
S-106
DHW (100 YR.) - 29.89
(NODE N_CC17010)
ERP NO. 44013039.33
NWL - 30.0
DHW (100 YR.) - 31.22
TOB - 31.8
POND T-M2
BOTTOM EL. 28.10
CONTROL EL. 29.10
WEIR EL. 29.45
TOP OF BERM EL. 33.00
DHW 25YR.-24HR. = 31.19
DHW 100YR.-8HR. = 31.59
ERP NO. 4403039.33
NWL - 29.60
DHW (100 YR.) - 31.19
TOB - 31.8
BASIN S3
(MEDIAN)
178+00.00
DHW (100 YR.) - 30.39
(NODE N_CC17005
POND T-OL1
POND T-M2
℄ CONST. NB
MATCHLINE STA. 177+00.00
MATCHLINE STA. 205+00.00
S-300
2.29 Ac.
℄ CONST. RAMP A
℄ SURVEY SR 93 (I-75)
S-301
S-302
0.34 Ac.
S-303
0.15 Ac.
S-304
0.40 Ac.
S-108
0.04 Ac.
S-109
0.04 Ac.
S-110
0.04 Ac.
S-111
0.04 Ac.
S-112
0.04 Ac.
S-113
0.04 Ac.
S-325
0.26 Ac.
S-326
0.21 Ac.
℄ CONST.
RAMP B
ERP NO. 49013039.004
SHW - 28.83
DHW - 30.27
CONTROL EL. - 29.4
WIER EL. - 29.63
ERP NO. 44013039.033
NWL - 29.6
DHW - 30.53
TOB - 31.6
AREA TO POND U1
BASIN T (MEDIAN)
WETLAND 4
SHW - 28.63
N.P. 28.18

A END MILLING & RESURFACING (SB) & END WIDENING (SB)
BEGIN RECONSTRUCTION (SB)
STA. 2117+45.61 ℄ CONST. SB
STA. 179+50.70, 108.86' LT. ℄ SURVEY SR 93 (I-75)

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES.
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (6)

SHEET NO. 21

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POND U1
CONTROL EL. = 22.20
DHW (25YR-24HR) = 24.87
DHW (100 YR/FDOT) = 25.58

POND U2
CONTROL EL. = 23.80
DHW (25YR-24HR) = 24.81
DHW (100 YR/FDOT) = 24.97

POND U3
CONTROL EL. = 20.50
DHW (25YR-24HR) = 24.58
DHW (100 YR/FDOT) = 25.11

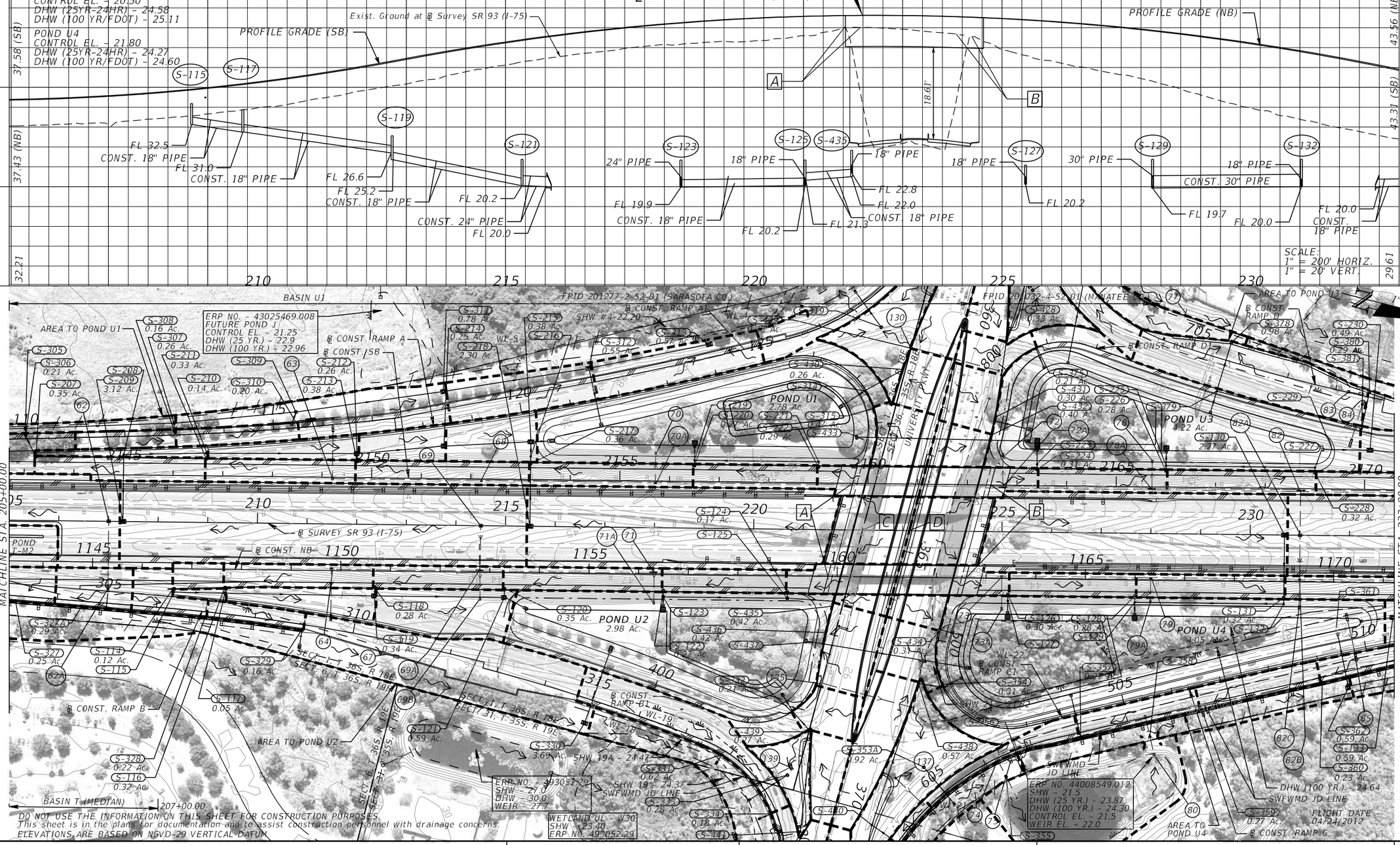
POND U4
CONTROL EL. = 21.80
DHW (25YR-24HR) = 24.27
DHW (100 YR/FDOT) = 24.60

A
BEGIN BRIDGE
SB BRIDGE - NO. 130161
STA. 2159+69.22 ℄ CONST. SB
NB BRIDGE - NO. 130160
STA. 1159+81.41 ℄ CONST. NB

C
END PROJECT
END FPID 201277-2-52-01
BEGIN PROJECT
BEGIN FPID 201032-4-52-01
SARASOTA CO. (17075) MP 42.615 =
MANATEE CO. (13075) MP 0.000
STA. 222+19.33 ℄ SURVEY SR 93 (I-75)

D
℄ SURVEY SR 93 (I-75)
STA. 223+13.46 =
℄ SURVEY UNIVERSITY PKWY.
STA. 364+57.79

B
END BRIDGE
SB BRIDGE - NO. 130161
STA. 2162+47.22 ℄ CONST. SB
NB BRIDGE - NO. 130160
STA. 1162+59.41 ℄ CONST. NB



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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JUAN CARLOS LOPEZ-PANIAGUA, PE
PE LICENSE NUMBER 41084
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (7)

SHEET NO. 22

jocampbe 2/19/2015 10:42:14 AM PW:\010917\CON0069518\000000000178241\13.00_CAD\20103245201\drainage\DRMPRD07.

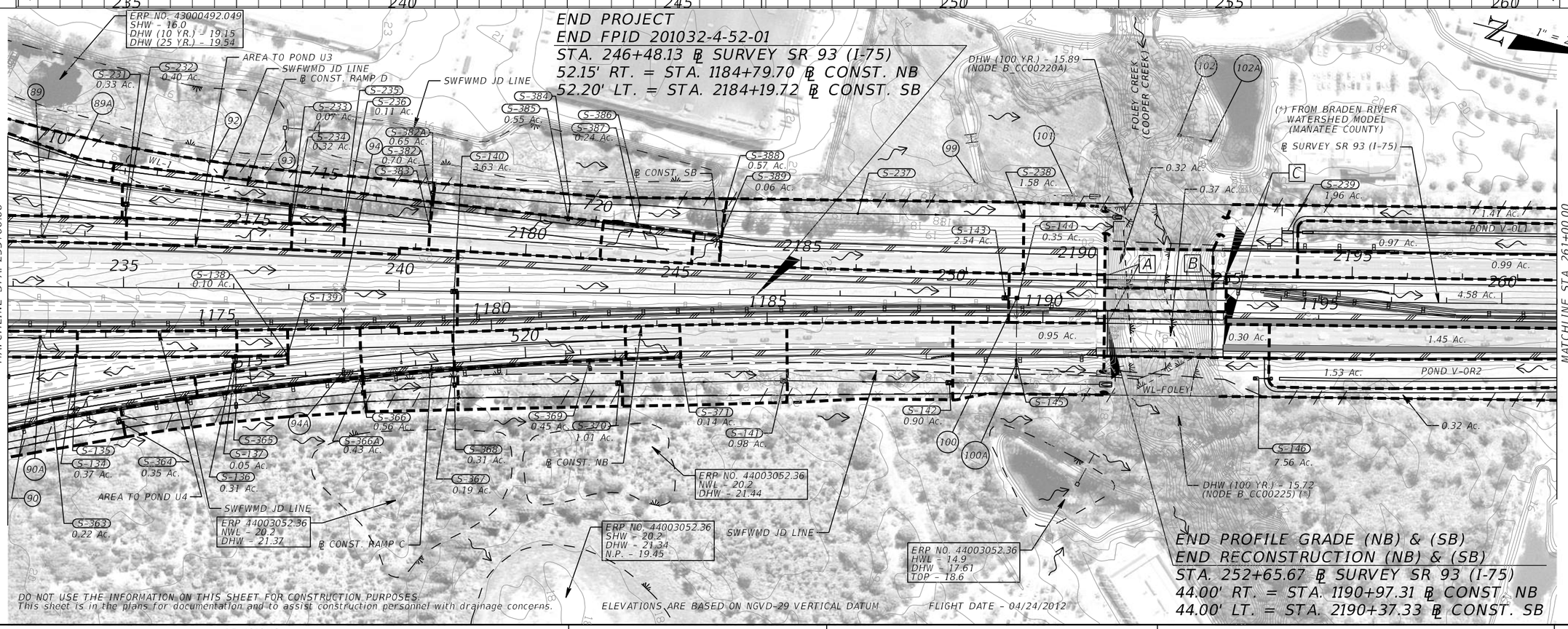
A BEGIN BRIDGE
SB BRIDGE NO. 130070
STA. 2190+57.33 ℄ CONST. SB
NB BRIDGE NO. 130071
STA. 1191+17.31 ℄ CONST. NB

B END BRIDGE
SB BRIDGE NO. 130070
STA. 2192+47.33 ℄ CONST. SB
NB BRIDGE NO. 130071
STA. 1193+07.31 ℄ CONST. NB

C BEGIN MILLING &
RESURFACING (NB & SB)
BEGIN INSIDE &
OUTSIDE WIDENING (NB)
STA. 254+75.65
℄ SURVEY SR 93 (I-75)
44.00' RT. = STA. 1193+27.31
℄ CONST. NB
44.00' LT. = STA. 2192+67.33
℄ CONST. SB

END PROJECT
END FPID 201032-4-52-01
STA. 246+48.13 ℄ SURVEY SR 93 (I-75)
52.15' RT. = STA. 1184+79.70 ℄ CONST. NB
52.20' LT. = STA. 2184+19.72 ℄ CONST. SB

END PROFILE GRADE (NB) & (SB)
END RECONSTRUCTION (NB) & (SB)
STA. 252+65.67 ℄ SURVEY SR 93 (I-75)
44.00' RT. = STA. 1190+97.31 ℄ CONST. NB
44.00' LT. = STA. 2190+37.33 ℄ CONST. SB



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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

FLIGHT DATE - 04/24/2012

END PROFILE GRADE (NB) & (SB)
END RECONSTRUCTION (NB) & (SB)
STA. 252+65.67 ℄ SURVEY SR 93 (I-75)
44.00' RT. = STA. 1190+97.31 ℄ CONST. NB
44.00' LT. = STA. 2190+37.33 ℄ CONST. SB

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REVISIONS			
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PE LICENSE NUMBER 41084
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2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (8)

SHEET NO. 23

END CONSTRUCTION (SB)
STA. 269+80.00, 44.00' LT. ℄ SURVEY SR 93 (I-75) =
STA. 2207+51.66 ℄ CONST. SB

END CONSTRUCTION (NB)
STA. 281+68.36, 44.00' RT.
℄ SURVEY SR 93 (I-75) =
STA. 1220+00.00 ℄ CONST. NB

Exist. Ground at ℄ Survey SR 93 (I-75)

Exist. 18" Pipe

FL - 17.44

21.85

20.04

SCALE:
1" = 200' HORIZ.
1" = 20' VERT.

60 40 20 0

265 270 275 280 285

BASIN V (LT.)

STA. 2214+71.00

POND V-0L1
BOTTOM EL. 18.00
CONTROL EL. 19.00
WEIR EL. 19.25
TOP OF BERM EL. 22.60
DHW 25YR.-24HR. = 20.63
DHW 100YR.-8HR. = 20.95

SWFWMD JD LINE

1.41 Ac.

POND V-0L1

0.97 Ac.

0.99 Ac.

19.40

WL-A

2200

2205

265

1200

1205

1.45 Ac.

1.53 Ac.

POND V-0R2

0.32 Ac.

18.7

S-147

4.58 Ac.

103

103A

SWFWMD JD LINE

POND V-0R2
BOTTOM EL. 17.10
CONTROL EL. 18.70
WEIR EL. 19.02
TOP OF BERM EL. 20.30
DHW 25YR.-24HR. = 19.91
DHW 100YR.-8HR. = 19.96

MATCHLINE STA. 261+00.00

END CONSTRUCTION (SB)
STA. 269+80.00 ℄ SURVEY SR 93 (I-75) =
STA. 2207+51.66, 44.00' LT. ℄ CONST. SB

SWFWMD JD LINE

3.49 Ac.

WL-B

4.58 Ac.

1210

1215

2.55 Ac.

92A

SECT. 36 T. 35S. R. 18E

SECT. 25 T. 35S. R. 18E

STA. 1215+74.00

WL-C

103E

SWFWMD JD LINE

BASIN V (MED. & RT.)

(*) FROM BRADEN RIVER
WATERSHED MODEL
(MANATEE COUNTY)

1" = 200'

SB I-75 WIDENING FROM STA. 2192+67.33
NB I-75 WIDENING FROM STA. 1215+73.71
TO BE CONSTRUCTED UNDER PROJECT
FPID 201032-2-52-01

BOUNDARY CONDITION (*)
DHW (100 YR./24 HR.) - 9.63
(NODE CC33015)

92B

103C

92C

1220

TO
BRADEN
RIVER

BOUNDARY CONDITION (*)
DHW (100 YR./24 HR.) - 6.14
(NODE CC33020)

92D

103B

103D

END CONSTRUCTION (NB)
STA. 281+68.36 ℄ SURVEY SR 93 (I-75) =
STA. 1220+00.00, 44.00' RT. ℄ CONST. NB

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ELEVATIONS ARE BASED ON NGVD-29 VERTICAL DATUM

FLIGHT DATE - 04/21/2012

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SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (9)

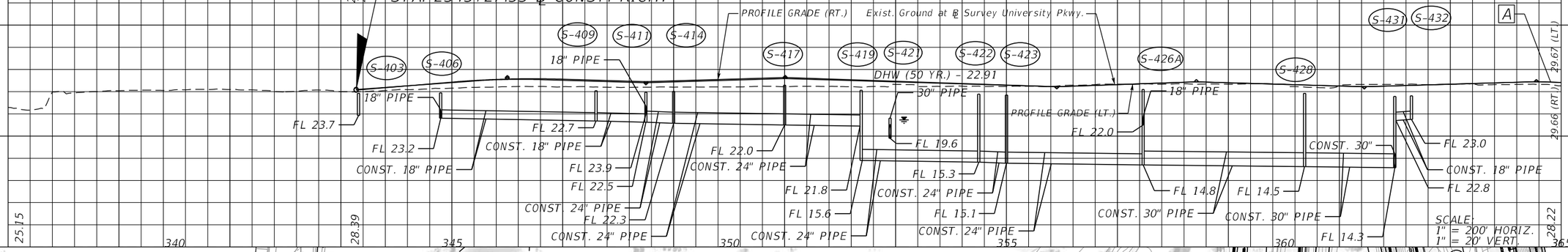
SHEET NO. 24

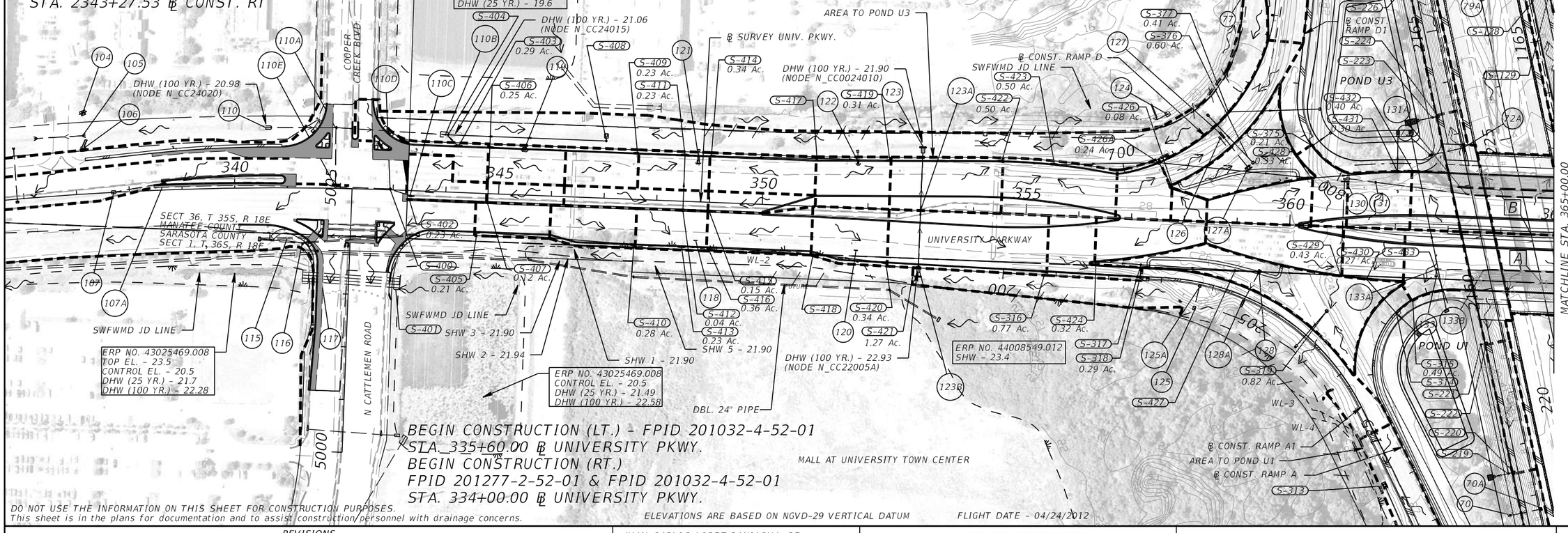
BEGIN CONSTRUCTION (LT.)
FPID 201032-4-52-01
BEGIN MILLING & RESURFACING (LT.)
STA. 335+60.00 ℄ UNIVERSITY PKWY.
BEGIN CONSTRUCTION (RT.)
FPID 201277-2-52-01
FPID 201032-4-52-01
BEGIN MILLING & RESURFACING (RT.)
STA. 334+00.00 ℄ UNIVERSITY PKWY.

BEGIN PROFILE GRADE (LT.) & (RT.)
END MILLING & RESURFACING (LT.) & (RT.)
BEGIN RECONSTRUCTION (LT.) & (RT.)
STA 343+27.53 ℄ SURVEY UNIVERSITY PKWY. =
STA. 1343+27.53 ℄ CONST. LEFT
STA. 2343+27.53 ℄ CONST. RIGHT

A MANATEE CO. (13075) MP 0.000 =
SARASOTA CO. (17075) MP 42.615
STA. 364+80.98 ℄ SURVEY UNIVERSITY PKWY. =
STA. 222+19.33 ℄ SURVEY SR 93 (I-75)

B STA. 364+57.79 ℄ SURVEY UNIVERSITY PKWY. =
STA. 223+13.46 ℄ SURVEY SR 93 (I-75)



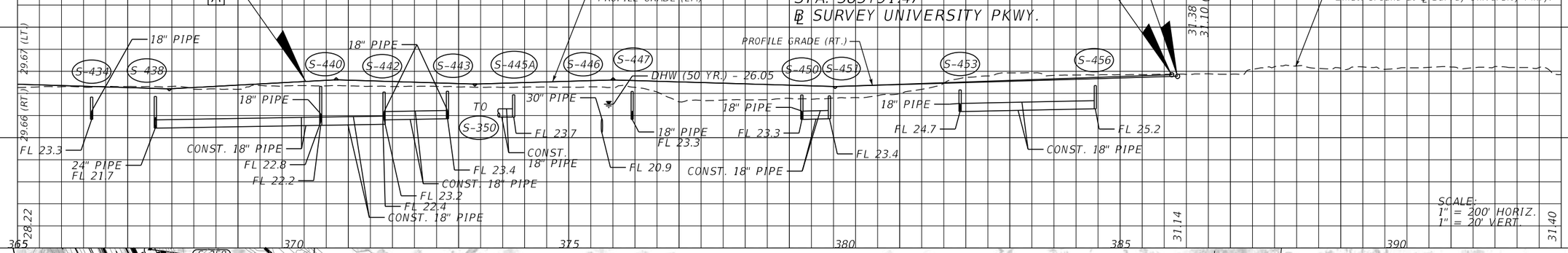

ERP NO. 43000492.049
SHW - 16.0
DHW (10 YR.) - 19.19
DHW (25 YR.) - 19.6
DHW (100 YR.) - 21.06
(NODE N_CC24015)
DHW (100 YR.) - 20.98
(NODE N_CC24020)
DHW (100 YR.) - 21.90
(NODE N_CC0024010)
DHW (100 YR.) - 22.93
(NODE N_CC22005A)
AREA TO POND U3
℄ SURVEY UNIV. PKWY.
℄ CONST. RAMP D
SWFWMD JD LINE
℄ CONST. RAMP D1
POND U3
℄ CONST. RAMP A1
AREA TO POND U1
℄ CONST. RAMP A
POND U1
COOPER CREEK BLVD.
N CATTLEMEN ROAD
UNIVERSITY PARKWAY
SECT 36, T 35S, R 18E
MANATEE COUNTY
SARASOTA COUNTY
SECT 1, T 36S, R 18E
SWFWMD JD LINE
SHW 3 - 21.90
SHW 2 - 21.94
SHW 1 - 21.90
SHW 5 - 21.90
ERP NO. 43025469.008
TOP EL. - 23.5
CONTROL EL. - 20.5
DHW (25 YR.) - 21.7
DHW (100 YR.) - 22.28
ERP NO. 43025469.008
CONTROL EL. - 20.5
DHW (25 YR.) - 21.49
DHW (100 YR.) - 22.58
DBL. 24" PIPE
ERP NO. 44008549.012
SHW - 23.4
WL-2
WL-3
WL-4
MALL AT UNIVERSITY TOWN CENTER
MATCHLINE STA. 365+00.00
1" = 200'
N
S-379
S-378
S-377
0.41 Ac.
S-376
0.60 Ac.
S-375
0.21 Ac.
S-428
0.33 Ac.
S-426
0.08 Ac.
S-426A
0.24 Ac.
S-423
0.50 Ac.
S-422
0.50 Ac.
S-419
0.31 Ac.
S-414
0.34 Ac.
S-411
0.23 Ac.
S-409
0.23 Ac.
S-406
0.25 Ac.
S-404
0.29 Ac.
S-402
0.23 Ac.
S-405
0.21 Ac.
S-407
0.12 Ac.
S-417
0.15 Ac.
S-416
0.36 Ac.
S-412
0.04 Ac.
S-413
0.23 Ac.
S-410
0.28 Ac.
S-418
S-420
0.34 Ac.
S-421
1.27 Ac.
S-316
0.77 Ac.
S-424
0.32 Ac.
S-317
S-318
0.29 Ac.
S-319
0.82 Ac.
S-427
S-429
0.43 Ac.
S-430
0.27 Ac.
S-433
S-432
0.40 Ac.
S-431
0.30 Ac.
S-226
S-225
S-224
S-223
S-222
S-220
S-219
S-315
0.49 Ac.
S-314
S-313
S-128
S-129
S-227
5000
5025
5050
5075
5100
5125
5150
5175
5200
5225
5250
5275
5300
5325
5350
5375
5400
5425
5450
5475
5500
5525
5550
5575
5600
5625
5650
5675
5700
5725
5750
5775
5800
5825
5850
5875
5900
5925
5950
5975

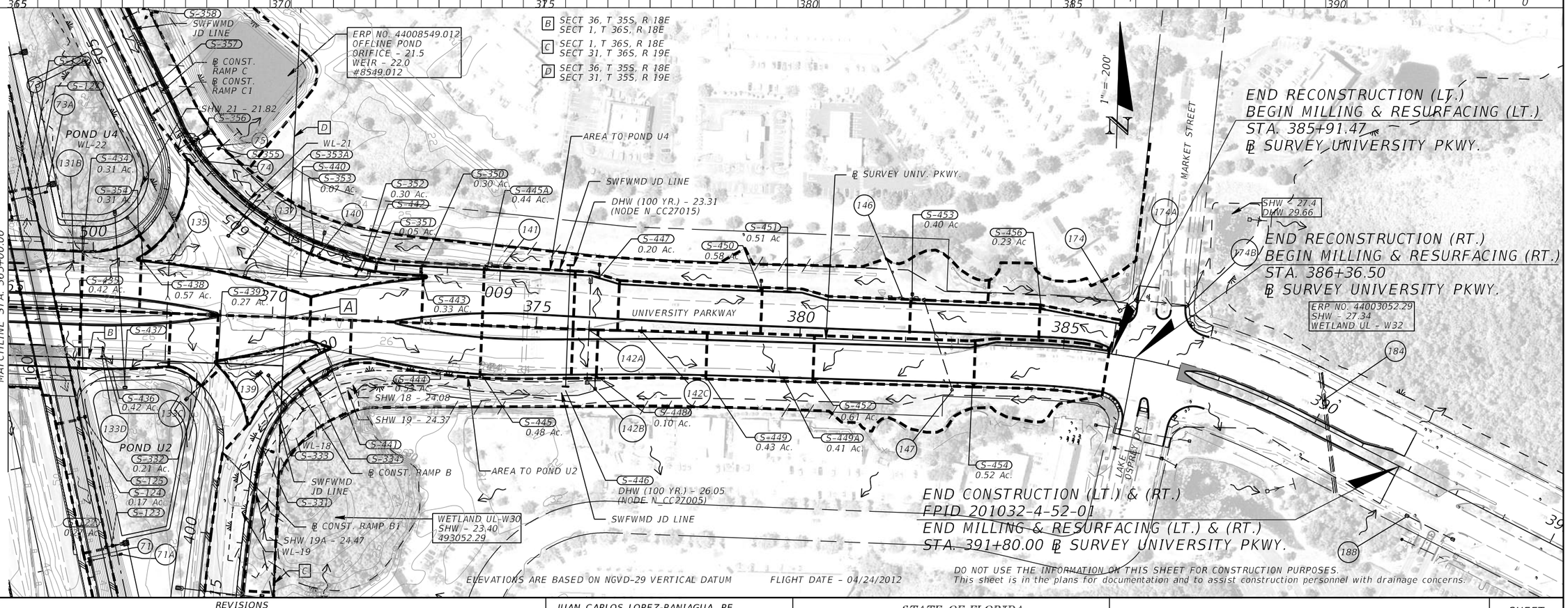
A END CONSTRUCTION (RT.)
FPID 210277-2-52-01
STA. 370+23.16
℄ SURVEY UNIVERSITY PKWY.

END PROFILE GRADE (RT.)
END RECONSTRUCTION (RT.)
BEGIN MILLING & RESURFACING (RT.)
STA. 386+36.50
℄ SURVEY UNIVERSITY PKWY.

END PROFILE GRADE (LT.)
END RECONSTRUCTION (LT.)
BEGIN MILLING & RESURFACING (LT.)
STA. 385+91.47
℄ SURVEY UNIVERSITY PKWY.

END CONSTRUCTION (LT.) & (RT.)
FPID 201032-4-52-01
END MILLING & RESURFACING (LT.) & (RT.)
STA. 391+80.00
℄ SURVEY UNIVERSITY PKWY.





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HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
CERTIFICATE OF AUTHORIZATION NO. 4213

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

DRAINAGE MAP (11)

SHEET NO. 26

A END FPID 201277-2-52-01
BEGIN FPID 201032-4-52-01
SARASOTA CO. (17075) MP 42.615 =
MANATEE CO. (13075) MP 0.000
STA. 222+19.33 ℄ SURVEY SR 93 (I-75)

B ℄ SURVEY SR 93 (I-75)
STA. 223+13.46 =
℄ SURVEY UNIVERSITY PKWY.
STA. 364+57.79

C END FPID 201277-2-52-01
BEGIN FPID 201032-4-52-01
SARASOTA CO. (17075) =
MANATEE CO. (13075)
STA. 2160+14.00
℄ CONST. SB

D END FPID 201277-2-52-01
BEGIN FPID 201032-4-52-01
SARASOTA CO. (17075) =
MANATEE CO. (13075)
STA. 1166+26.28
℄ CONST. NB

FPID 201277-2-52-01 (SARASOTA CO.)

FPID 201032-4-52-01 (MANATEE CO.)

1" = 200'

POND U1
CONTROL EL. - 22.20
WEIR EL. - 22.40
GRATE EL. - 24.50
TOP OF BANK EL. - 25.8
DHW (25YR./FLMOD) EL. - 24.79
DHW (100YR./FDOT) EL. - 25.57

POND U3
CONTROL EL. - 20.50
WEIR EL. - 20.70
TOP OF BANK EL. - 25.8
DHW (25YR./FLMOD) EL. - 24.58
DHW (100YR./FDOT) EL. - 25.12

POND U2
CONTROL EL. - 23.80
GRATE EL. - 24.10
TOP OF BANK EL. - 25.85
DHW (25YR./FLMOD) EL. - 24.81
DHW (100YR./FDOT) EL. - 24.97

POND U4
CONTROL EL. - 21.80
WEIR EL. - 22.00
TOP OF BANK EL. - 25.8
DHW (25YR./FLMOD) EL. - 24.27
DHW (100YR./FDOT) EL. - 24.60

WETLAND UL - W30
SHW - 23.40
ERP NO. 493052.29

ERP NO. - 493052.29
SHW - 27.0
DHW - 30.0
WEIR - 27.7

ERP NO. 44008549.012
ORIFICE - 21.50
WEIR - 22.00
DHW (25 YR.) - 23.87
DHW (100 YR.) - 24.30

SHW #4-22.20
SHW 19A - 24.47
SHW 19 - 24.37

RAMP A
RAMP A1
RAMP B
RAMP B1
RAMP C
RAMP C1
RAMP D
RAMP D1
UNIVERSITY PKWY.
SR 93 (I-75)
EXIST. FDOT POND

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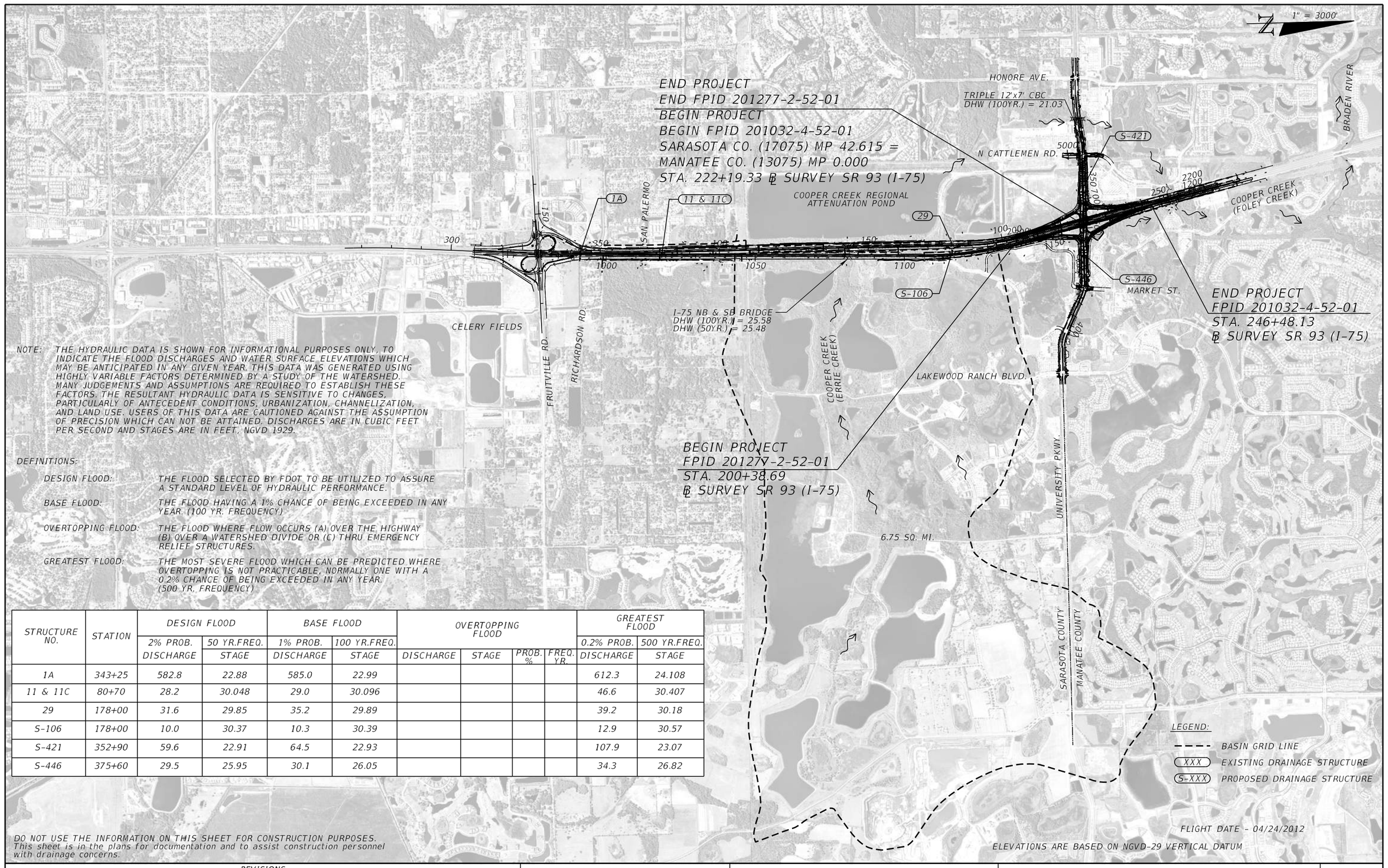
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

INTERCHANGE DRAINAGE MAP

SHEET NO. 27



NOTE: THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND AND STAGES ARE IN FEET, NGVD 1929.

DEFINITIONS:

DESIGN FLOOD: THE FLOOD SELECTED BY FDOT TO BE UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.

BASE FLOOD: THE FLOOD HAVING A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR. (100 YR. FREQUENCY)

OVERTOPPING FLOOD: THE FLOOD WHERE FLOW OCCURS (A) OVER THE HIGHWAY (B) OVER A WATERSHED DIVIDE OR (C) THRU EMERGENCY RELIEF STRUCTURES.

GREATEST FLOOD: THE MOST SEVERE FLOOD WHICH CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE, NORMALLY ONE WITH A 0.2% CHANCE OF BEING EXCEEDED IN ANY YEAR. (500 YR. FREQUENCY)

STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD	
		2% PROB.	50 YR.FREQ.	1% PROB.	100 YR.FREQ.					0.2% PROB.	500 YR.FREQ.
		DISCHARGE	STAGE	DISCHARGE	STAGE	DISCHARGE	STAGE	PROB. %	FREQ. YR.	DISCHARGE	STAGE
1A	343+25	582.8	22.88	585.0	22.99					612.3	24.108
11 & 11C	80+70	28.2	30.048	29.0	30.096					46.6	30.407
29	178+00	31.6	29.85	35.2	29.89					39.2	30.18
S-106	178+00	10.0	30.37	10.3	30.39					12.9	30.57
S-421	352+90	59.6	22.91	64.5	22.93					107.9	23.07
S-446	375+60	29.5	25.95	30.1	26.05					34.3	26.82

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-4-52-01

SUPPLEMENTAL DRAINAGE MAP

SHEET NO. 28

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

CONSTRUCTION CONTRACT NO. E1G83

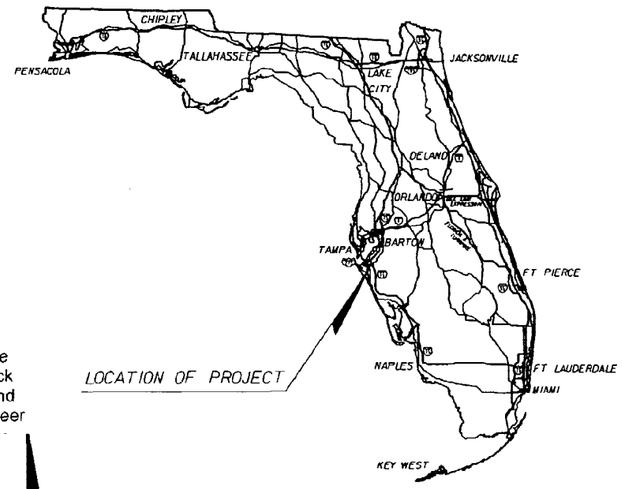
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS

FINANCIAL PROJECT ID 420618-1-52-01

MANATEE COUNTY (13075)

STATE ROAD NO. 93 (I-75) @ STATE ROAD NO. 70



COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS

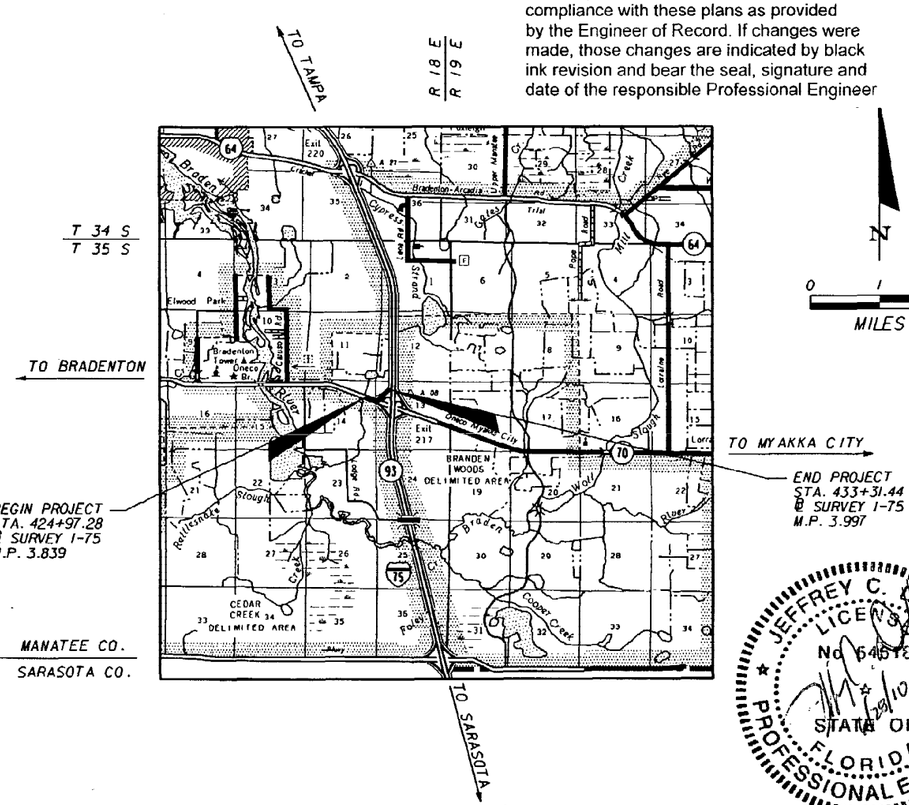
A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

INDEX of FINAL PLANS
COMPUTATION BOOK #1
SHOP DRAWINGS

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2008,
AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 7-1-08
For Design Standards Modifications click on "Design Standards" at the following web site:
http://www.dot.state.fl.us/rddesign/



0 1 2 MILES

This project was constructed in substantial compliance with these plans as provided by the Engineer of Record. If changes were made, those changes are indicated by black ink revision and bear the seal, signature and date of the responsible Professional Engineer

PROJECT LENGTH IS BASED ON @ SURVEY I-75

LENGTH OF PROJECT	LINEAR FEET	MILES
ROADWAY	834.16	0.158
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	834.16	0.158
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	834.16	0.158

FDOT PROJECT MANAGER: KEVIN S. INGLE, P.E.

REVISIONS

△7 ROADWAY SHEETS: 1 (REVISED 12/11/09), 46 (ADDED 12/11/09)
SIGNING AND MARKING SHEETS: S-1, S-6, S-9 (REVISED 12/11/09), S-11, S-12, S-13 (ADDED 12/11/09)

△8 ROADWAY SHEETS: 1 (REVISED 06/02/10)
SIGNING AND MARKING SHEETS: S-1, S-6, S-9, S-11, S-12, S-13 (REVISED 06/02/10)

△9 AS-BUILT:
ROADWAY SHEETS: 1, 9, 14 TO 17, 19 TO 28 (REVISED 06/03/10)
SIGNING AND MARKING SHEETS: S-1, S-11 (REVISED 06/03/10)

Mr. Matthew W. Lewis, P.E.
Florida PE No. 62401
CEI Responsible Engineer
URS Construction Services

Matthew W. Lewis 7-1-10

KEY SHEET REVISIONS	
DATE	DESCRIPTION
12/11/09	△7 ADDED SHEET 46 TO INDEX
06/03/10	△9 AS-BUILT

JEFFREY C. DRAPP LICENSE No 54618 STATE OF FLORIDA PROFESSIONAL ENGINEER 7/28/10

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
JEFFREY C. DRAPP, P.E.
HNTB CORPORATION
10210 HIGHLAND MANOR DR.
SUITE 140
TAMPA, FL 33610
PHONE: (813) 246-5527

PLANS PREPARED BY:

HNTB
10210 HIGHLAND MANOR DR.
SUITE 140
TAMPA, FL. 33610
(813) 246-5527
VENDOR ID NO. VF-43-1694597
CONTRACT ID NUMBER: E1G83
CERT. OF AUTH. NO. 6500

NOTE: THIS PROJECT TO BE LET TO CONTRACT WITH FINANCIAL PROJECT ID 420616-1-52-01.

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

Name of Contractor: APAC – Southeast, Inc
Name of all consultants involved in construction:
URS Construction Services, Inc.
Name of District Secretary, Resident Engineer, and Project Manager:
Stan Cann, PE, Lance Grace, PE, Phil Chiarini
Project Administrator: Matt Lewis, P.E.
Date Work Started: August 10, 2009
Date Work Final Acceptance or Completed: June 11, 2010

ROADWAY PLANS
ENGINEER OF RECORD: JEFFREY C. DRAPP, P.E.

P.E. NO.: 54618

FISCAL YEAR	SHEET NO.
09	1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

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DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

END CONSTRUCTION
@ RAMP J
STA. 723+24.43 =
@ SURVEY I-75
STA. 438+13.65, 84.97' LT.

MATCH LINE STA. 718+60.00

END PROJECT
END MILLING AND RESURFACING
END WIDENING
@ RAMP J
STA. 718+41.34 =
@ SURVEY I-75
STA. 433+31.44, 114.06' LT.

MATCH LINE STA. 718+60.00

SEC. 13, T 35S, R 18E
SEC. 14, T 35S, R 18E

L/A R/W LINE

@ SURVEY I-75

@ RAMP J

POND IF2 SWFWMD
25-YR 24 HR DHW = 31.2
FDOT 100-YR 24 HR
DHW = 31.6

POND IF1
25-YR 24 HR SWFWMD DHW = 31.1
FDOT 100-YR 8 HR DHW = 31.4

SB I-75

NB I-75

L/A R/W LINE

BEGIN PROJECT
@ SURVEY SR 70
STA. 19+40.00 =
@ SURVEY I-75
STA. 424+97.28, 1977.87' LT.

BEGIN CONSTRUCTION
BEGIN MILLING & RESURFACING
@ SURVEY SR 70
STA. 20+21.97 =
@ SURVEY I-75
STA. 424+70.96, 1900.24' LT.

@ RAMP JI

EXIST. LINEAR TREATMENT POND

3.69 AC

4.35 AC

0.11 AC

WB SR 70

0.38 AC

0.37 AC

0.49 AC

0.27 AC

0.29 AC

@ SURVEY SR 70

0.63 AC

0.62 AC

0.19 AC

0.29 AC

0.15 AC

0.29 AC

0.59 AC

0.31 AC

0.28 AC

0.29 AC

0.10 AC

0.26 AC

0.25 AC

EB SR 70

0.32 AC

0.25 AC

0.31 AC

0.20 A

BEGIN @ RAMP J
STA. 700+00.00=
@ RAMP JI
STA. 19+28.67, 491.44' LT.=
@ SURVEY SR 70
STA. 26+54.63, 61.07' LT.

BEGIN @ RAMP JI
STA. 18+67.60 =
@ SURVEY SR 70
STA. 31+46.07 =
@ SURVEY I-75
STA. 421+09.95, 835.69' LT.

STA. 40+28.50
@ SURVEY SR 70 =
STA. 418+26.55
@ SURVEY I-75

L/A R/W LINE

L/A R/W LINE

0 50 200

N

DOUGLAS J. BURKHART
PROFESSIONAL ENGINEER
No 40900
STATE OF FLORIDA

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
10210 HIGHLAND MANOR DR.
SUITE 140
TAMPA, FL. 33610
(813) 246-5527
CERT. OF AUTH. NO. 6500
DOUGLAS J. BURKHART, P.E., NO. 40900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	420618-1-52-01

DRAINAGE MAP

SHEET NO. 2

ashaw 8/27/2009 2:35:54 PM \\tpnw00\pnwork\Jobs\48250\cadd\420618152\drainage\DRMPR01.dgn

(1) INLET
TOP EL 26.09
6" PVC (W) FL 23.39
15" RCP (S) FL 23.34

(2) MANHOLE
TOP EL 26.92
6" PVC (W) FL 24.17
6" PVC (E) FL 24.17
15" RCP (S) FL 23.17

(3) 4" PVC PIPE
PLUGGED PIPE, FL 30.3

(4) 4" PVC PIPE
PLUGGED PIPE, FL 29.7

(5) 4" PVC PIPE
(N) FL 28.81

(6) INLET
TOP EL 29.99
15" RCP (NW) FL 26.47
15" RCP (NE) FL 26.47

(7) MES (1:4)
18" RCP
FL 27.34

(8) DBI-TYPE C
TOP EL 31.6
WEIR EL 29.8
FL 27.4

(9) INLET TYPE P-1
EOP EL 33.72
18" FL 29.7 (AH)
18" FL 29.7 (BK)

(10) INLET TYPE P-1
EOP EL 34.39
18" FL 29.3 (AH)
18" FL 29.3 (BK)

(11) INLET TYPE P-1
EOP EL 34.84
24" FL 29.0 (LT)
18" FL 29.0 (BK)
24" FL 30.3 (AH)

(12) MODIFIED MANHOLE TYPE J-7 (4'x9')
WITH WEIR & SKIMMER
WEIR EL 29.8
SKIMMER EL 29.2
TOP EL 31.9
24" FL 27.3 (AH)
24" FL 27.8 (RT)
24" FL 27.8 (LT)

(13) 24" PIPE
FL 27.0

(14) MES (1:4)
24" PIPE
FL 27.0

(15) INLET TYPE P-1
EOP EL 35.08
FL 30.5 (BK)
FL 30.5 (AH)

(16) INLET TYPE P-1
EOP EL 35.59
FL 31.2 (BK)
FL 31.2 (AH)

(17) DBI-TYPE C
TOP EL 31.6
ORIFICE EL 28.4
FL 27.4

(18) DBI-TYPE B
J-BOT 3.5' x 5'
GRATE EL 34.5
FL 31.4 (BK)
FL 31.4 (AH)

(19) INLET TYPE P-1 (ALT. A)
EOP EL 35.38
FL 31.8 (BK)
FL 31.8 (AH)

(20) INLET TYPE P-2
EOP EL 35.08
FL 32.0 (BK)
FL 32.0 (AH)

(21) INLET TYPE P-1
EOP EL 35.38
FL 32.3 (BK)
FL 32.3 (AH)

(22) INLET TYPE P-1
EOP EL 35.57
FL 32.6 (BK)

(23) GRATE INLET
TOP EL 34.0
FL 31.75 (AH)

(24) DBI TYPE A
W/ TRAVERSABLE SLOT (BK)
GRATE EL 36.0
FL 31.3 (AH)
FL 31.3 (BK)

(25) INLET TYPE P-1
EOP EL 36.41
FL 31.2 (AH)
FL 31.2 (BK)

(26) INLET TYPE P-1
EOP EL 36.64
FL 30.2 (LT)
FL 30.9 (BK)
FL 31.8 (AH)

(27) MODIFIED MANHOLE
TYPE J-7 (4'x8.5') W/ WEIR & SKIMMER
TOP EL 35.67
WEIR EL 31.50
FL 30.0 (AH)
FL 30.0 (RT)
FL 29.2 (LT)

(28) MES (1:4)
FL 29.0

(29) MANHOLE TYPE P-8
TOP EL 36.3
FL 29.8 (AH)
FL 29.8 (BK)

(41) INLET TYPE P-1
EOP EL 36.69
FL 32.6 (BK)

(42) INLET TYPE P-1
W/ TYPE I SKIMMER (RT. INTERIOR WALL)
EOP EL 36.39
BOTTOM OF BAFFLE EL 28.2
SUMP BOTTOM EL 28.2
FL 32.3 (AH)
FL 31.5 (RT)

(43) MES (1:4)
18" PIPE
FL 31.4

(44) INLET TYPE P-1
W/ TYPE I SKIMMER (RT. INTERIOR WALL)
EOP EL 36.08
BOTTOM OF BAFFLE EL 29.5
SUMP BOTTOM EL 27.5
FL 31.3 (RT)
FL 31.3 (BK)

(45) MES (1:4)
18" PIPE
FL 31.2

(46) INLET TYPE P-1
EOP EL 35.88
FL 31.7 (BK)

(47) INLET TYPE P-1
EOP EL 35.46
FL 31.4 (BK)

(48) INLET TYPE P-1
W/ TYPE I SKIMMER (RT. INTERIOR WALL)
EOP EL 35.33
BOTTOM OF BAFFLE EL 29.9
SUMP BOTTOM EL 27.9
FL 31.2 (RT)
FL 31.2 (BK)

(49) MES (1:4)
18" PIPE
FL 31.0

(50) INLET TYPE P-1
W/ TYPE I SKIMMER (RT. INTERIOR WALL)
EOP EL 35.74
BOTTOM OF BAFFLE EL 30.4
SUMP BOTTOM EL 28.4
FL 31.7 (RT)

(51) MES (1:4)
18" PIPE
FL 29.2

(52) 6' x 3' CBC, INLET
CONC. HW (S) FL 29.05
CONC HW (N) FL 26.88
TOP EL 32.47
(S) FL 26.92
(N) FL 26.88

(53) 18" RCP PIPE
(E) FL 28.29

(53A) INLET TYPE P-1
EOP EL 35.29
FL 29.5 (AH)
FL 29.5 (AH)

(53B) INLET TYPE P-1
EOP EL 34.41
FL 30.2 (AH)

(54) 6.5' x 3' CBC
CONC. HW (S) FL 25.41
CONC. HW (N) FL 25.81

(55) 4" PVC PIPE
(S) FL 30.01

(56) 6' x 3' CBC
(NW) FL 27.10
(SE) FL 27.00

(57) INLET, PIPE, EW
15" CMP

(58) INLET, PIPE, EW
15" CMP

(59) INLET, PIPE, EW
TOP EL 29.80
18" PIPE (W) FL 27.30
18" PIPE (E) FL 27.40

(60) INLET, PIPE, INLET, PIPE, INLET, EW
TOP EL 46.29
18" PIPE (W) FL 42.00
TOP EL 44.70
18" PIPE (W) FL 41.60
18" PIPE (E) FL 41.60
TOP EL 46.29
15" CMP (W) FL 41.20
EW FL 30.60

(61) INLET, PIPE, EW
TOP EL 54.25
15" CMP (E) FL 50.00
EW FL 31.40

(62) INLET, PIPE, EW
TOP EL 45.78
15" CMP (S) FL 42.00
EW FL 31.20

(63) PIPE, INLET, PIPE, EW
24" PIPE (E) FL 30.30
TOP EL 37.73
24" PIPE (W) FL 30.20
24" PIPE (E) FL 30.20
EW FL 30.00

(64) DBI TYPE C
GRATE EL 33.2
18" FL 29.3
ORIFICE EL 31.0

(65) DBI TYPE C
GRATE EL 33.0
18" FL 30.4

DOUGLAS J. BURKHART
LICENSED
No. 40900
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HNTB
10210 HIGHLAND MANOR DR.
SUITE 140
TAMPA, FL. 33610
(813) 246-5527
CERT. OF AUTH. NO. 6500
DOUGLAS J. BURKHART, P.E., NO. 40900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	420618-1-52-01

EXISTING DRAINAGE STRUCTURES DATA SHEET

SHEET NO. 3

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THIS PROJECT TO BE LET TO CONTRACT WITH FINANCIAL PROJECT ID(S): 201032-2-56-01, 201032-2-56-02

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
INTELLIGENT TRANSPORTATION SYSTEMS (ITS) PLANS
LIGHTING PLANS
STRUCTURES PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 201032-2-52-01
(FEDERAL FUNDS)
MANATEE COUNTY (13075)
I-75 AT S.R. 70 INTERCHANGE
STATE ROAD NO. 93/70

END CONSTRUCTION
STA. 606+11.32 ℄ SURVEY I-75
MP 7.076

EQUATION:
STA. 4511+57.29 ℄ SB I-75 BK =
STA. 4511+70.50 ℄ SB I-75 AH

EQUATION:
STA. 4465+35.53 ℄ SB I-75 BK =
STA. 4465+35.08 ℄ SB I-75 AH

TO BRADENTON

EQUATION:
STA. 4439+50.16 ℄ SB I-75 BK =
STA. 4439+50.00 ℄ SB I-75 AH

T-34-S
T-35-S

END PROJECT
STA. 438+45.57 ℄ SURVEY I-75
MP 4.096

END BRIDGE (I-75 SB)
STA. 4419+77.24 ℄ CONST. (I-75 SB)
MP 3.741

TO BRADENTON

BEGIN BRIDGE (I-75 SB)
STA. 4417+39.24 ℄ CONST. (I-75 SB)
MP 3.684

EQUATION:
STA. 4416+59.91 ℄ SB I-75 BK =
STA. 4416+59.75 ℄ SB I-75 AH

EQUATION:
STA. 4377+68.39 ℄ SB I-75 BK =
STA. 4377+55.31 ℄ SB I-75 AH

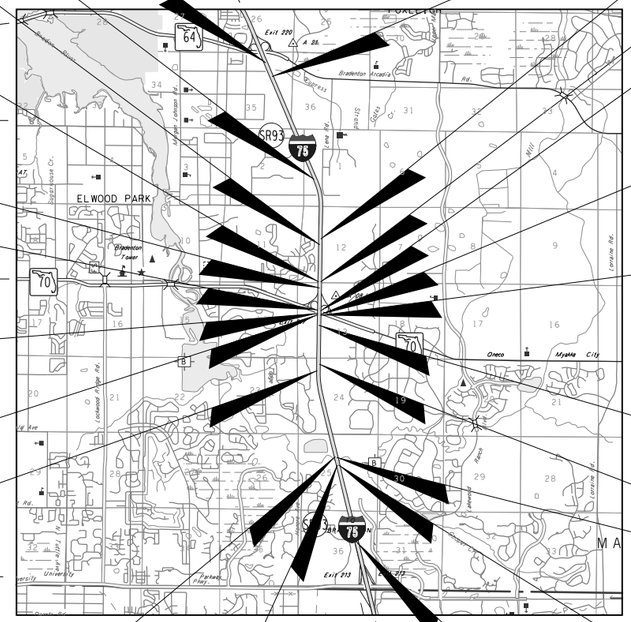
T-35-S
T-36-S

TO BRADENTON

END BRIDGE (I-75 SB)
STA. 4316+29.26 ℄ CONST. (I-75 SB)
MP 1.790

BEGIN BRIDGE (I-75 SB)
STA. 4310+29.26 ℄ CONST. (I-75 SB)
MP 1.670

TO SARASOTA



EQUATION:
STA. 3589+54.77 ℄ NB I-75 BK =
STA. 3589+09.27 ℄ NB I-75 AH

EQUATION:
STA. 3469+35.53 ℄ NB I-75 BK =
STA. 3469+35.08 ℄ NB I-75 AH

EQUATION:
STA. 3439+00.16 ℄ NB I-75 BK =
STA. 3439+00.00 ℄ NB I-75 AH

END BRIDGE (I-75 NB)
STA. 3419+12.76
MP 3.741

TO MYAKKA

BEGIN BRIDGE (I-75 NB)
STA. 3416+74.76
MP 3.684

EQUATION:
STA. 3416+09.91 ℄ NB I-75 BK =
STA. 3416+09.75 ℄ NB I-75 AH

TO MYAKKA

BEGIN PROJECT
STA. 398+38.69 ℄ SURVEY I-75
MP 3.337

EQUATION:
STA. 3381+85.25 ℄ NB I-75 BK =
STA. 3382+06.28 ℄ NB I-75 AH

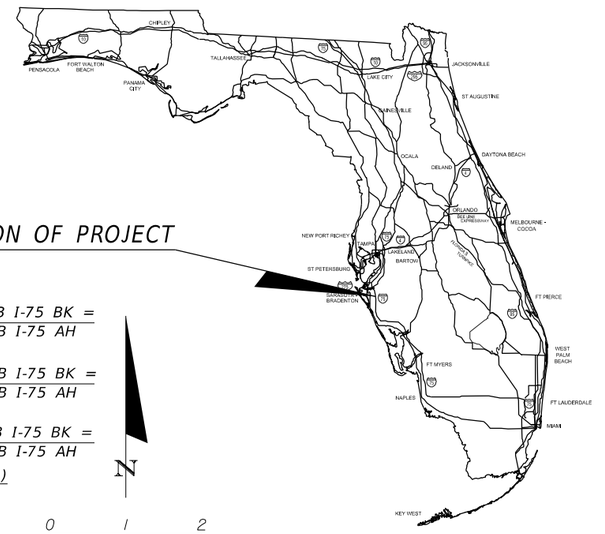
END BRIDGE (I-75 NB)
STA. 3315+62.19 ℄ CONST. (I-75 NB)
MP 1.790

TO MYAKKA

BEGIN BRIDGE (I-75 NB)
STA. 3310+12.19 ℄ CONST. (I-75 NB)
MP 1.670

BEGIN CONSTRUCTION
STA. 250+75.89 ℄ SURVEY I-75
MP 0.620

LOCATION OF PROJECT



ROADWAY PLANS
ENGINEER OF RECORD:

STEVEN DEAN MCWILLIAMS, P.E. NO. 54836
ATKINS NORTH AMERICA, INC.
4030 WEST BOY SCOUT BLVD., STE. 700
TAMPA, FLORIDA 33607
(813) 282-7275
CONTRACT NO. C-9534
CONSULTANT VENDOR NO. F-590-896-138-001
CERTIFICATE OF AUTHORIZATION NO. : 24

FDOT PROJECT MANAGER:

DOUGLAS BURKHART, P.E.

GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, 2017-18 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the following website:
http://www.fdot.gov/roadway/DesignStandards/Standards.shtm

GOVERNING STANDARDS AND SPECIFICATIONS:

Florida Department of Tansportation January 2018 Standard Specifications for Road and Bridge Construction at the following web site:
http://www.fdot.gov/programmanagement/implemented/SpecBooks

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T1709	18	1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCH PROJECT FPID 201277-2-52-01
BEGIN CONSTRUCTION
STA. 250+75.89 ℄ SURVEY S.R. 93 (I-75)

PROFILE GRADE LINE @ ℄ NORTHBOUND I-75

PROFILE GRADE LINE @ ℄ SOUTHBOUND I-75

EXISTING GROUND LINE @ ℄ NB I-75

SHW EL 19.90
SHW EL 17.00
DHW EL 15.00
PW EL 6.74 05/21/14
SHW EL 19.60
SHW EL 20.10
SHW EL 18.40
SHW EL 18.70
SHW EL 18.90
SHW EL 18.30
SHW EL 16.00
SHW EL 15.70

25.44

24.81 (NB)
24.57 (SB)

22.74 (NB)
22.61 (SB)

21.92 (NB)
21.77 (SB)

SCALE HORIZ.: 1" = 200'
SCALE VERT.: 1" = 20"

VERTICAL DATUM (NGVD) 1929

40 20 0 -20

248 250 252 254 256 258 260 262 264 266 268 270 272 274 276

MATCH PROJECT FPID 201077-2-52-01
BEGIN CONSTRUCTION
℄ SURVEY S.R. 93 (I-75)
STA. 250+75.89

BEGIN WIDENING
BEGIN MILLING & RESURFACING
MATCH EXISTING
℄ CONST. S.R. 93 (I-75 SB)
STA. 4254+95.67

BEGIN WIDENING
BEGIN MILLING & RESURFACING
MATCH EXISTING
℄ CONST. S.R. 93 (1-75 NB)
STA. 3254+95.67

FOLEY CREEK

COOPER CREEK OFFICE CAMPUS (ERP NO. 492.37)

SHW EL. 17.01

WETLAND 18
SHW EL. 18.88

WETLAND 22

WETLAND 17
SHW EL. 16.03

WETLAND 24

WETLAND 23

EXIST. LA R/W

EL. 20.82
EL. 19.95
EL. 19.47
EL. 18.44
EL. 20.15
EL. 20.35
19.07
18.10
19.48
18.80

℄ CONST. S.R. 93 I-75 SB

SB I-75 (S.R. 93)

NB I-75 (S.R. 93)

℄ SURVEY S.R. 93 I-75

℄ CONST. S.R. 93 I-75 NB

61 62 66 67

4250 4255 4260 4265 4270 4275
250 255 260 265 270 275
3250 3255 3260 3265 3270 3275

PW EL. 6.74 05/21/14

OSW #38

PROFESSIONAL CENTER AT LAKEWOOD RANCH (ERP NO. 19768.9)

1" = 200'

MATCH LINE STA. 276+00.00

AERIAL DATE: JANUARY, 2014

DIRECTION OF FLOW
BASIN BOUNDARY
SECTION LINE
S-XXX PROPOSED DRAINAGE STRUCTURE
XX EXISTING DRAINAGE STRUCTURE

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.
4030 WEST BOY SCOUT BLVD., STE. 700
TAMPA, FLORIDA 33607
(813) 282-7275
CERTIFICATE OF AUTHORIZATION NO. 24
Richard D. Uptegraff, P.E. NO. 58789

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (1 OF 13)

SHEET NO. 12

USER: schn2087 2/1/2018 6:05:05 PM c:\pw_work\pbsjpw1\schn2087\dms16262\drmprd02.dgn

22.74 (NB)
22.61 (SB)

23.38 (NB)
23.36 (SB)

21.92 (NB)
21.77 (SB)

22.75 (NB)
22.43 (SB)

PROFILE GRADE LINE @ ℄ NORTHBOUND I-75

PROFILE GRADE LINE @ ℄ SOUTHBOUND I-75

EXISTING GROUND LINE @ ℄ NB I-75

S-300

S-310

DHW 10 EL. 19.21

SHW EL 15.30

EXIST. CD-1
36" RCP
FL. 13.49

SHW EL 15.70

DHW 10 EL. 17.32

SHW EL 14.30

EXIST. CD-2
30" RCP
FL. 9.79

SHW EL 13.10

SHW EL 15.70

DHW 10 EL. 13.11

EXIST. CD-3
36" RCP
FL. 8.30

SHW EL 14.60

DHW 10 EL. 12.38

EXIST. CD-4
42" RCP
FL. 5.29

SHW EL 14.60

SHW EL 16.70

SHW EL 16.80

SCALE: 1" = 200' HORIZ.
SCALE: 1" = 20" VERT.

VERTICAL DATUM (NGVD) 1929

276 278 280 282 284 286 288 290 292 294 296 298 300 302 304

40 20 0 -20

BASIN 3A

BASIN 3B1

BASIN 3B2

UNIVERSITY PLACE
(ERP NO. 492.014)

1" = 200'

SECT. 36 T35S R18E
SECT. 25 T35S R18E

OSW #35

EL. 16.89

EL. 16.89

SMF 3A
BASIN AREA = 2.32 AC.
SHW EL = 15.60
TOP OF BANK = 0.74 AC.
WEIR EL = 19.80
DHW (25YR - 24HR) = 21.09
DHW (100YR - 24HR) = 21.33

SMF 3B1
BASIN AREA = 4.09 AC.
SHW EL = 15.70
TOP OF BANK = 0.97 AC.
WEIR EL = 19.70
DHW (25YR - 24HR) = 20.88
DHW (100YR - 24HR) = 21.12

SMF 3B2
BASIN AREA = 3.02 AC.
SHW EL = 17.40
TOP OF BANK = 1.25 AC.
WEIR EL = 17.80
DHW (25YR - 24HR) = 19.17
DHW (100YR - 24HR) = 19.33

WETLAND 19

WETLAND 18

EXIST. LA R/W

EL. 28.11

EL. 14.11

EL. 13.70

EL. 15.98

EL. 14.75

℄ CONST. S.R. 93 I-75 SB

EL. 18.08

MATCH LINE STA. 276+00.00

MATCH LINE STA. 304+00.00

4280 4285 4290 4295 4300

280 285 290 295 300

3280 3285 3290 3295 3300

SB I-75 (S.R. 93)

NB I-75 (S.R. 93)

EL. 19.82

EL. 13.48

EL. 14.50

EL. 11.34

EL. 12.99

EL. 13.08

EL. 10.00

WETLAND 29

℄ SURVEY S.R. 93 I-75

℄ CONST. S.R. 93 I-75 NB

WETLAND 26

WETLAND 27

EL. 9.89

EL. 9.89

WETLAND 28

EXIST. LA R/W

68 70 71 72 73 74 75 76 76A 77 77A

CD-1 CD-2 CD-3 CD-4

S-300 S-310

TARA PHASE I
WATER QUALITY
TREATMENT SYSTEM
(ERP NO. 12585.002)

AERIAL DATE: JANUARY, 2014

DIRECTION OF FLOW
BASIN BOUNDARY
SECTION LINE
S-XXX PROPOSED DRAINAGE STRUCTURE
XX EXISTING DRAINAGE STRUCTURE

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.
4030 WEST BOY SCOUT BLVD., STE. 700
TAMPA, FLORIDA 33607
(813) 282-7275
CERTIFICATE OF AUTHORIZATION NO. 24
Richard D. Uptegraff, P.E. NO. 58789

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (2 OF 13)

SHEET NO. 13

USER: schn2087 2/1/2018 6:05:25 PM c:\pw_work\pbsjpw1\schn2087\dms16262\drmprd03.dgn

BEGIN BRIDGE
STA. 3310+12.19 B NBML =
STA. 4310+29.26 B SBML

END BRIDGE
STA. 3315+62.19 B NBML =
STA. 4316+29.26 B SBML

23.38 (NB)
23.36 (SB)

22.75 (NB)
22.43 (SB)

24.77 (NB)
24.72 (SB)

24.27 (NB)
23.97 (SB)

PROFILE GRADE LINE @ ℄ NORTHBOUND I-75

EXISTING GROUND LINE @ ℄ NB I-75

S-500A
FL 20.00

S-500B
FL 20.00

S-500
18" PIPE TO MES
FL 23.1

S-502
S-501

SHW
EL 17.40

SHW
EL 16.40

DHW 50
EL. 13.05

PW
EL 3.85
05/21/14

DHW 50
EL. 9.33

EXIST. CD-4A
54" RCP
FL. 3.6

SHW
EL 18.50

SHW
EL 16.20

SHW
EL 17.20

SHW
EL 17.10

SHW
EL 17.00

FL 14.08
EXIST. CD-5
30" RCP

DHW 50
EL. 18.01

PW
EL 3.85
05/21/14

SCALE: 1" = 200' HORIZ.
SCALE: 1" = 20" VERT.

VERTICAL DATUM (NGVD) 1929

40
20
0
-20

304 306 308 310 312 314 316 318 320 322 324 326 328 330 332

3B1
BASIN 3B2

BEGIN BRIDGE (I-75 SB)
STA. 4310+29.26

BASIN 5A

END BRIDGE (I-75 SB)
STA. 4316+29.26

BASIN 5B

SMF 3B2
BASIN AREA = 3.02 AC.
SHW EL = 17.40
TOP OF BANK = 1.25 AC.
WEIR EL = 17.80
DHW (25YR - 24HR) = 19.17
DHW (100YR - 24HR) = 19.33

SMF 5B
BASIN AREA = 1.29 AC.
SHW EL = 18.50
TOP OF BANK = 0.32 AC.
WEIR EL = 22.60
DHW (25YR - 24HR) = 23.41
DHW (100YR - 24HR) = 23.60

1" = 200'

RIVA TRACE
(ERP NO. 12585.29)

EXIST. LA R/W

BRADEN RIVER

OSW #30

OSW #31

OSW #32

OSW #43

S-320

S-500A

S-500B

S-502

CD-5

CD-4A

S-500

S-501

℄ SURVEY S.R. 93 I-75

℄ CONST. S.R. 93 I-75 SB

℄ CONST. S.R. 93 I-75 NB

4325 SB I-75 (S.R. 93)

NB I-75 (S.R. 93)

0.44 AC

0.24 AC

EL. 24.03
EL. 28.82
EL. 16.93
EL. 16.12
EL. 18.10
EL. 19.06
EL. 19.72
EL. 20.20
EL. 14.68

80 81 84 85 89 90 91 92 78 79 86 87 88 82 83 93 94 95 96

4305 4310 4315 4320 4325 4330
3305 3310 3315 3320 3325 3330

MATCH LINE STA. 304+00.00

MATCH LINE STA. 332+00.00

WETLAND 19A

WETLAND 31

LINGER LODGE RD.

SECT. 25 T35S R18E

SECT. 24 T35S R18E

35

PW
EL 3.85
05/21/14

AERIAL DATE: JANUARY, 2014

DIRECTION OF FLOW
BASIN BOUNDARY
SECTION LINE
S-XXX PROPOSED DRAINAGE STRUCTURE
XX EXISTING DRAINAGE STRUCTURE

SMF 3B1
BASIN AREA = 4.09 AC.
SHW EL = 15.70
TOP OF BANK = 0.97 AC.
WEIR EL = 19.70
DHW (25YR - 24HR) = 20.88
DHW (100YR - 24HR) = 21.12

SMF 5A
BASIN AREA = 1.85 AC.
SHW EL = 18.50
TOP OF BANK = 0.59 AC.
WEIR EL = 24.70
DHW (25YR - 24HR) = 25.30
DHW (100YR - 24HR) = 25.51

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TAMPA, FLORIDA 33607
(813) 282-7275
CERTIFICATE OF AUTHORIZATION NO. 24
Richard D. Uptegraff, P.E. NO. 58789

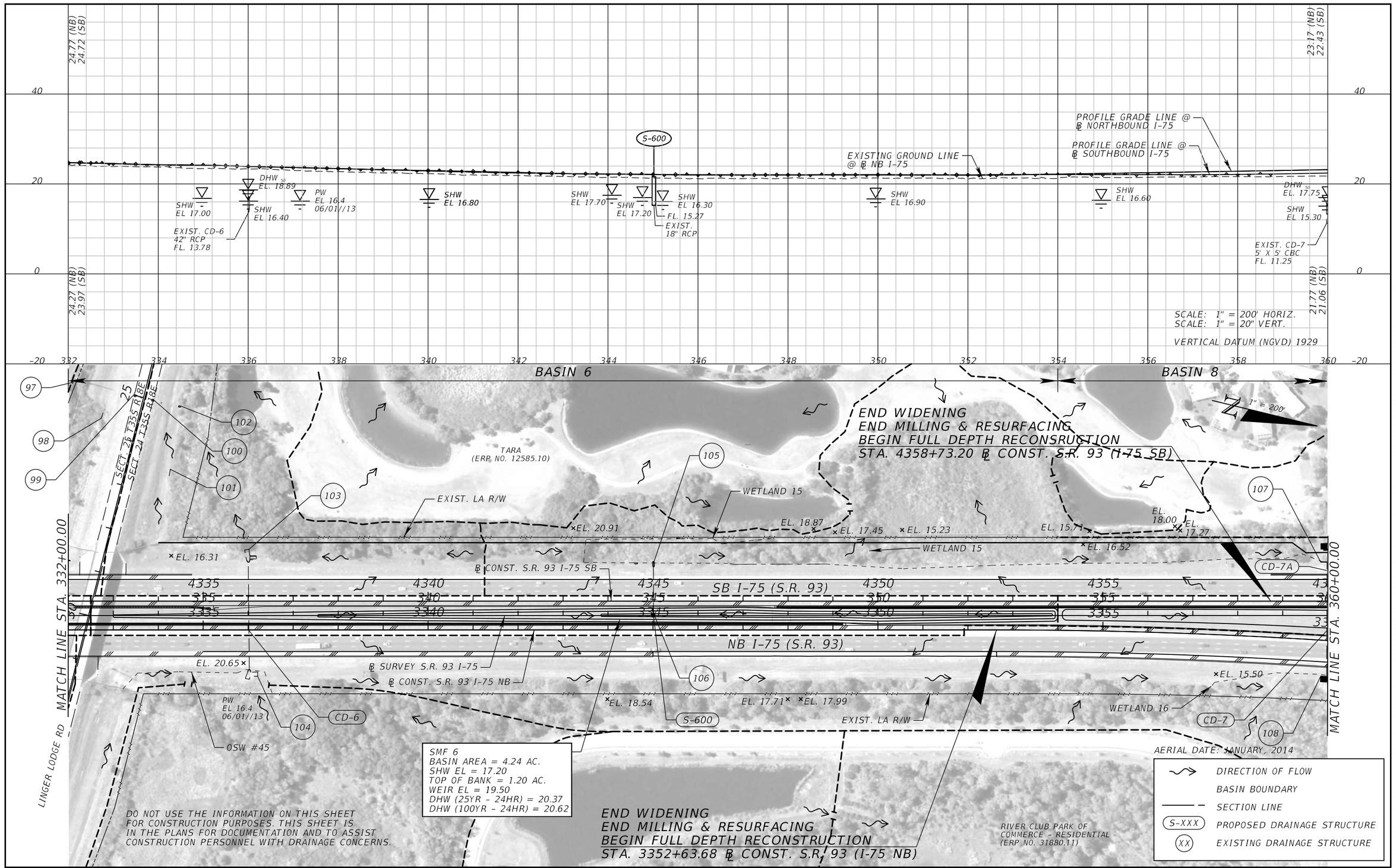
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (3 OF 13)

SHEET NO. 14

USER: schn2087 2/1/2018 6:05:55 PM c:\pw_work\pbsjpw1\schn2087\dms16262\drmprd04.dgn



REVISIONS			
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (4 OF 13)

SHEET NO. **15**

EQUATION:
PT STA. 3381+85.25 ℄ CONST. NB I-75 BK =
PT STA. 3382+06.28 ℄ CONST. NB I-75 AH

EQUATION:
PT STA. 4377+68.39 ℄ CONST. SB I-75 BK =
PT STA. 4377+55.31 ℄ CONST. SB I-75 AH

EXISTING GROUND LINE @ ℄ NB I-75

PROFILE GRADE LINE @ ℄ SOUTHBOUND I-75

PROFILE GRADE LINE @ ℄ NORTHBOUND I-75

23.17 (NB)
22.43 (SB)

27.75 (NB)
27.46 (SB)

21.77 (NB)
21.06 (SB)

24.65 (NB)
24.30 (SB)

40
20
0
-20

360 362 364 366 368 370 372 374 376 378 380 382 384 386 388

S-800 S-900

DHW 50 EL. 17.75
SHW EL 15.50
SHW EL 15.30
EXIST. CD-7
5' X 5' CBC
FL. 11.25

SHW EL 16.50
SHW EL 16.30
SHW EL 15.30

DHW 50 EL. 17.40
PW EL 14.5 06/01//13
FL. 13.20
18" PIPE CONC. JACKET
FL. 13.00
EXIST. CD-8
5' X 5' CBC

SHW EL 16.50

SHW EL 16.30
DHW 50 EL. 16.53
PW EL 15.3 06/01//13
SHW EL 15.30
FL. 11.95
EXIST. CD-9
48" RCP

SHW EL 19.10

SCALE: 1" = 200' HORIZ.
SCALE: 1" = 20" VERT.

VERTICAL DATUM (NGVD) 1929

BASIN 8 BASIN 9

1" = 200'

TARA PHASE III
(ERP NO. 12585.5)

SECT. 24 T35S R18E
SECT. 24 T35S R18E

EQUATION:
PT STA. 4377+68.39 ℄ CONST. SB I-75 BK =
PT STA. 4377+55.31 ℄ CONST. SB I-75 AH

CD-8A
WETLAND 13
0.126 AC
S-802
S-800
S-801
109
110
112
℄ CONST. S.R. 93 I-75 SB
EXIST. LA R/W
WETLAND 14
EL. 16.28
EL. 15.66
0.115 AC
4370
370
4375
375
SB I-75 (S.R. 93)
4380
380
0.356 AC
0.365 AC
4385
385
0.365 AC
3385
3380
3375
3370
3365
4365
365
℄ SURVEY S.R. 93 I-75
NB I-75 (S.R. 93)
107
WETLAND 15
EL. 17.25
S-902
OSW #23
113
S-903A
S-903
S-900
CD-9
S-904
EL. 16.29
MATCH LINE STA. 360+00.00
MATCH LINE STA. 388+00.00
60
CD-7
EL. 17.02
EL. 17.31
WETLAND 16
108
℄ CONST. S.R. 93 I-75 NB
EXIST. LA R/W
CD-8
PW EL 14.5 06/01//13
111
CD-8B
EL. 16.08
WETLAND 17
EL. 15.34
EL. 15.05
WETLAND 1
114
PW EL 15.3 06/01//13
EL. 24.68
EL. 19.62
115
S-901

AERIAL DATE: JANUARY, 2014

DIRECTION OF FLOW
BASIN BOUNDARY
SECTION LINE
S-XXX PROPOSED DRAINAGE STRUCTURE
XX EXISTING DRAINAGE STRUCTURE

SMF 8
BASIN AREA = 9.55 AC.
SHW EL = 16.90
TOP OF BANK = 3.30 AC.
WEIR EL = 19.50
DHW (25YR - 24HR) = 20.73
DHW (100YR - 24HR) = 20.85

EQUATION:
PT STA. 3381+85.25 ℄ CONST. NB I-75 BK =
PT STA. 3382+06.28 ℄ CONST. NB I-75 AH

NWL = 18.10
DHW_{25} = 20.41
DHW_{100} = 20.90

NWL = 18.00
DHW_{25} = 20.48
DHW_{100} = 20.78

SMF 9
BASIN AREA = 7.09 AC.
SHW EL = 19.10
TOP OF BANK = 1.31 AC.
WEIR EL = 21.50
DHW (25YR - 24HR) = 21.99
DHW (100YR - 24HR) = 22.37

SHWL = 15.67

SHWL = 17.53

RIVER CLUB PARK
OF COMMERCE
(ERP NO. 31880.11)

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (5 OF 13)

SHEET NO. 16

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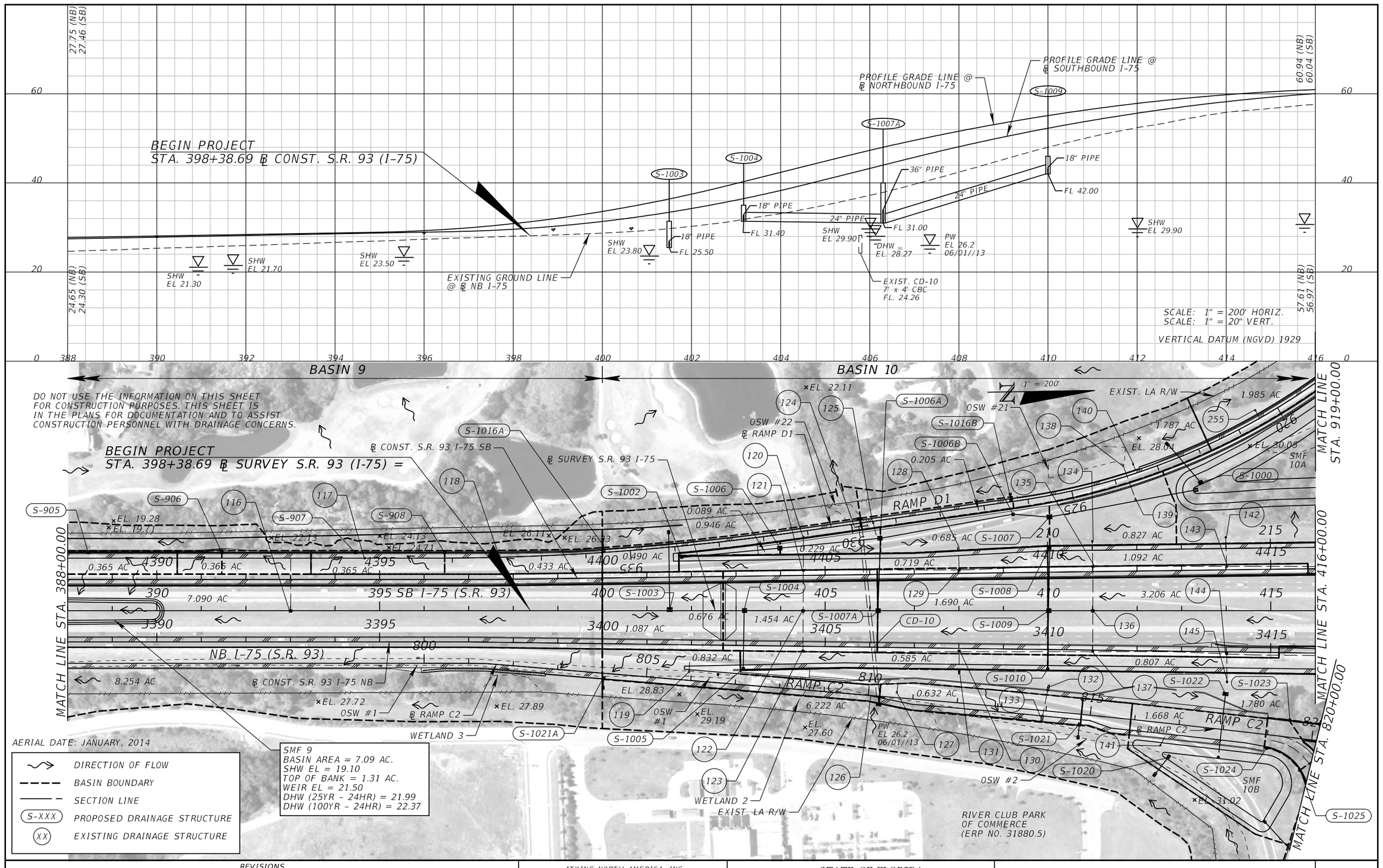

REVISIONS			
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(813) 282-7275
CERTIFICATE OF AUTHORIZATION NO. 24
Richard D. Uptegraff, P.E. NO. 58789

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (6 OF 13)

SHEET NO. 17

USER: schn2087 2/1/2018 6:07:24 PM c:\pw_work\pbsjpw1\schn2087\dms16262\drmprd07.dgn

END BRIDGE
STA. 3419+12.76 NB I-75

END BRIDGE
STA. 4419+77.24 SB I-75

BEGIN BRIDGE
STA. 4417+39.24 SB I-75

BEGIN BRIDGE
STA. 3416+75.76 NB I-75

PROFILE GRADE LINE @ ℄ SOUTHBOUND I-75

PROFILE GRADE LINE @ ℄ NORTHBOUND I-75

EXISTING GROUND LINE @ ℄ NB I-75

END PROJECT
STA. 438+45.57 ℄ CONST. S.R. 93 (I-75)

EQUATION:
PI STA. 3439+00.16 ℄ CONST. NB I-75 BK =
PI STA. 3439+00.00 ℄ CONST. NB I-75 AH

EQUATION:
PI STA. 4439+50.16 ℄ CONST. SB I-75 BK =
PI STA. 4439+50.00 ℄ CONST. SB I-75 AH

EQUATION:
PI STA. 4416+59.91 ℄ CONST. SB I-75 BK =
PI STA. 4416+59.75 ℄ CONST. SB I-75 AH

EQUATION:
PI STA. 3416+09.91 ℄ CONST. NB I-75 BK =
PI STA. 3416+09.75 ℄ CONST. NB I-75 AH

61.08 (NB)
60.84 (SB)

58.01 (NB)
57.95 (SB)

37.07 (NB)
36.80 (SB)

36.12 (NB)
36.11 (SB)

SHW EL 29.10

SHW EL 30.30

SHW EL 29.90

SHW EL 30.60

SHW EL 29.90

DHW EL. 31.54

PW EL 30.4 06/01//13

18" PIPE FL 32.00

36" PIPE FL 29.50

36" PIPE

36" PIPE FL 30.90

18" PIPE FL 30.60

FL 30.10

S-1160 S-1162 S-1166 S-1170

EXIST. CD-14
6' x 3' CBC
FL. 28.37

BASIN 10

BASIN 11

SCALE: 1" = 200' HORIZ.
SCALE: 1" = 20" VERT.

VERTICAL DATUM (NGVD) 1929

0 416 418 420 422 424 426 428 430 432 434 436 438 440 442 444 0

℄ CONST. S.R. 70

S-1113A S-1116A S-1114 S-1115 S-1116 S-1014 S-1116B S-1119 S-1118 S-1117 S-1120 S-1121 S-1123A

SMF 10A

WETLAND 11

0.673 AC 0.939 AC 0.611 AC 0.373 AC

CD-37

S-1113 CD-25 WETLAND 9

EQUATION:
PI STA. 4416+59.91 ℄ CONST. SB I-75 BK =
PI STA. 4416+59.75 ℄ CONST. SB I-75 AH

℄ SURVEY S.R. 70 ℄ RAMP A2

BEGIN BRIDGE (I-75 SB)
STA. 4417+39.24

END BRIDGE (I-75 SB)
STA. 4419+77.24

END BRIDGE (I-75 NB)
STA. 3419+12.76

BEGIN BRIDGE (I-75 NB)
STA. 3416+74.76

℄ CONST. S.R. 93 I 75 NB

WETLAND 12

℄ RAMP B1

WETLAND 29

EQUATION:
PI STA. 3416+09.91 ℄ CONST. NB I-75 BK =
PI STA. 3416+09.75 ℄ CONST. NB I-75 AH

S-1153 S-1151 S-1151A S-1147 S-1146 S-1148 S-1152 S-1158 S-1156A S-1163A S-1163 S-1164 S-1168 S-1169 S-1167 S-1160 S-1161 S-1162 S-1159 S-1159A

149 150 151 153 154 155 156 157 158 159 160 161 162 162A 163

CD-24 CD-14

SMF 11B5 SMF 11B1 SMF 11B8

EL. 30.91 EL. 32.31 EL. 30.96 EL. 31.78 EL. 34.50 EL. 30.36 EL. 32.50

OSW #10 OSW #11

EXIST. LA R/W ℄ RAMP A1

EXIST. LA R/W

WETLAND 5

PW EL. 30.4 06/01/13

0.343 AC 0.361 AC 0.614 AC 0.400 AC 0.614 AC 10.24 AC 1.141 AC 0.196 AC 0.242 AC 0.578 AC 0.248 AC

℄ RAMP A2 0.243 AC 0.381 AC 0.110 AC

℄ RAMP A1

℄ SB I-75 (S.R. 93)

NB I-75 (S.R. 93)

RAMP B1

CREEKWOOD PHASE I
(ERP NO. 5641.21)

EQUATION:
PI STA. 3439+00.16 ℄ CONST. NB I-75 BK =
PI STA. 3439+00.00 ℄ CONST. NB I-75 AH

EQUATION:
PI STA. 4439+50.16 ℄ CONST. SB I-75 BK =
PI STA. 4439+50.00 ℄ CONST. SB I-75 AH

END PROJECT
STA. 438+45.57
℄ CONST.
S.R. 93 (I-75)

SECT. 13 T35S R18E

SECT. 12 T35S R18E

× EL. 32.09

℄ CONST. S.R. 93 I-75 SB

℄ SURVEY S.R. 93 I-75

EXIST. LA R/W

MATCH LINE STA. 416+00.00

MATCH LINE STA. 444+00.00

1" = 200'

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AERIAL DATE: JANUARY, 2014

DIRECTION OF FLOW
BASIN BOUNDARY
SECTION LINE
S-XXX PROPOSED DRAINAGE STRUCTURE
XX EXISTING DRAINAGE STRUCTURE

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (7 OF 13)

SHEET NO. 18

USER: schn2087 2/1/2018 6:07:55 PM c:\pw_work\pbsjpw1\schn2087\dms16262\drmprd08.dgn

37.07 (NB)
36.80 (SB)

33.08 (NB)
33.05 (SB)

EQUATION:
PT STA. 3469+35.53 ℄ CONST. NB I-75 BK =
PT STA. 3469+38.08 ℄ CONST. NB I-75 AH

EQUATION:
PT STA. 4465+35.53 ℄ CONST. SB I-75 BK =
PT STA. 4465+35.08 ℄ CONST. SB I-75 AH

PROFILE GRADE LINE @ ℄ NORTHBOUND I-75

S-1400

S-1410

SHW EL 30.90

PROFILE GRADE LINE @ ℄ SOUTHBOUND I-75

EXISTING GROUND LINE @ ℄ NB I-75

SHW EL 31.20

SHW EL 30.00

SHW EL 31.10

18" PIPE

FL 29.43

SHW EL 29.60

SHW EL 28.90

DHW 50 EL. 29.17

PW EL 28.2 06/01//13

SHW EL 28.20

SHW EL 28.80

FL. 23.71

EXIST. CD-15 5' X 4' CBC

36.12 (NB)
36.11 (SB)

32.95 (NB)
32.46 (SB)

SCALE: 1" = 200' HORIZ.
SCALE: 1" = 20" VERT.

VERTICAL DATUM (NGVD) 1929

444 446 448 450 452 454 456 458 460 462 464+00 466 468 470 472

BASIN 11 BASIN 14A BASIN 14B BASIN 15A

CREEKWOOD
(ERP NO. 5641.11)

END FULL DEPTH RECONSTRUCTION
BEGIN WIDENING
BEGIN RESURFACING
MATCH EXISTING
STA. 4465+35.53 ℄ CONST. S.R. 93 (I-75 SB)

1" = 200'

EQUATION:
PT STA. 4465+35.53 ℄ CONST. SB I-75 BK =
PT STA. 4465+35.08 ℄ CONST. SB I-75 AH

EXIST. LA R/W

EL. 33.37
EL. 33.89
EL. 33.52
EL. 34.39
EL. 33.23
EL. 30.54
EL. 31.47
EL. 28.34

CD-15A
168
167
OSW #56

℄ SURVEY S.R. 93 I-75
℄ CONST. S.R. 93 I-75 SB

SB I-75 (S.R. 93)

NB I-75 (S.R. 93)

CD-15

S-1410
166

MATCH LINE STA. 444+00.00

MATCH LINE STA. 472+00.00

4445 4450 4455 4460 4465 4470
445 450 455 460 465 470
3445 3450 3455 3460 3465 3470

EL. 30.37
WETLAND 6
EL. 31.68
WETLAND 18
EL. 30.91
EL. 29.34
EL. 32.34
WETLAND 19
PW EL 28.2 06/01//13
EL. 29.94

164
165
S-1400

℄ CONST. S.R. 93 I-75 NB

EXIST. LA R/W

EQUATION:
PT STA. 3469+35.53 ℄ CONST. NB I-75 BK =
PT STA. 3469+35.08 ℄ CONST. NB I-75 AH

SMF 14A
BASIN AREA = 3.99 AC.
SHW EL = 30.40
TOP OF BANK = 2.16 AC.
WEIR EL = 32.70
DHW (25YR - 24HR) = 33.20
DHW (100YR - 24HR) = 33.46

SMF 14B
BASIN AREA = 3.10 AC.
SHW EL = 28.80
TOP OF BANK = 0.91 AC.
WEIR EL = 31.20
DHW (25YR - 24HR) = 31.79
DHW (100YR - 24HR) = 32.11

CREEKWOOD E.
CORPORATE PARK
(ERP NO. 5641.21)

END FULL DEPTH RECONSTRUCTION
BEGIN WIDENING
BEGIN RESURFACING
MATCH EXISTING
STA. 3469++35.08 ℄ CONST. S.R. 93 (I-75 NB)

AERIAL DATE: JANUARY, 2014

DIRECTION OF FLOW
BASIN BOUNDARY
SECTION LINE
S-XXX PROPOSED DRAINAGE STRUCTURE
XX EXISTING DRAINAGE STRUCTURE

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.
4030 WEST BOY SCOUT BLVD., STE. 700
TAMPA, FLORIDA 33607
(813) 282-7275
CERTIFICATE OF AUTHORIZATION NO. 24
Richard D. Uptegraff, P.E. NO. 58789

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (8 OF 13)

SHEET NO. 19

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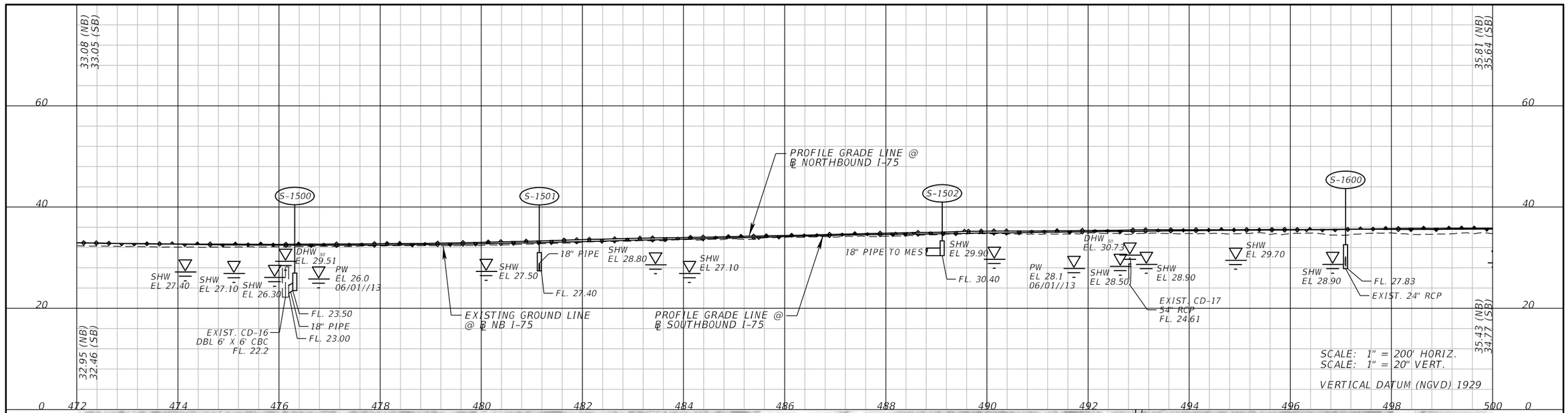

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (9 OF 13)

SHEET NO. 20

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35.81 (NB)
35.64 (SB)

33.95 (NB)
33.47 (SB)

EQUATION:
PT STA. 4511+57.29 ℄ CONST. SB I-75 BK =
PT STA. 4511+70.50 ℄ CONST. SB I-75 AH

EQUATION:
BK 451157.29 =
AH 451170.50

PROFILE GRADE LINE @
℄ NORTHBOUND I-75

S-1610

S-1700

SHW
EL 29.20

SHW
EL 30.20

SHW
EL 31.30

SHW
EL 30.80

FL. 28.5

EXIST.
24" RCP

SHW
EL 30.80

SHW
EL 31.10

PROFILE GRADE LINE @
℄ SOUTHBOUND I-75

EXISTING GROUND LINE
@ ℄ NB I-75

SHW
EL 31.40

SHW
EL 30.80

SHW
EL 31.30

DHW 50
EL. 33.52

PW
EL 29.7
06/01/13

FL. 28.25

SHW
EL 29.90

EXIST. CD-18
30" RCP

SHW
EL 30.40

35.43 (NB)
34.77 (SB)

33.55 (NB)
33.07 (SB)

SCALE: 1" = 200' HORIZ.
SCALE: 1" = 20' VERT.

VERTICAL DATUM (NGVD) 1929

60 40 20 0

500 502 504 506 508 510 512 514 516 518 520 522 524 526 528

BASIN 16A | BASIN 16B | BASIN 17A | BASIN 17B

SMF 16A
BASIN AREA = 3.48 AC.
SHW EL = 29.20
TOP OF BANK = 1.55 AC.
WEIR EL = 31.80
DHW (25YR - 24HR) = 32.52
DHW (100YR - 24HR) = 32.76

SMF 16B
BASIN AREA = 5.59 AC.
SHW EL = 30.80
TOP OF BANK = 2.50 AC.
WEIR EL = 31.40
DHW (25YR - 24HR) = 32.31
DHW (100YR - 24HR) = 32.57

EQUATION:
PT STA. 4511+57.29 ℄ CONST. SB I-75 BK =
PT STA. 4511+70.50 ℄ CONST. SB I-75 AH

SECT. 2 T35S R18E
SECT. 1 T35S R18E

1" = 200'

178

WETLAND 27

182

EXIST. LA R/W

WETLAND 43

EXIST. LA R/W

EL. 30.51

EL. 28.08

EL. 32.19

℄ CONST. S.R. 93 I-75 SB

181

CD-18

EL. 30.76

MATCH LINE STA. 500+00.00

4505
505

4510
510

4515
515

SB I-75 (S.R. 93)

4520
520

4525
525

3505

3510

3515

3520

3525

NB I-75 (S.R. 93)

MATCH LINE STA. 528+00.00

EL. 37.40

EL. 36.77

EL. 36.80

EL. 34.51

EL. 32.49

℄ SURVEY S.R. 93 I-75

℄ CONST. S.R. 93 I-75 NB

EL. 31.73

S-1700

EL. 33.15

EL. 33.67

EL. 30.44

EL. 33.27

180

PW
EL 29.7
06/01/13

WETLAND 37

EXIST. LA R/W

EXIST. LA R/W

179

WETLAND 21

S-1610

AERIAL DATE: JANUARY, 2014

SMF 17A
BASIN AREA = 2.38 AC.
SHW EL = 31.30
TOP OF BANK = 1.09 AC.
WEIR EL = 31.70
DHW (25YR - 24HR) = 32.39
DHW (100YR - 24HR) = 32.47

SMF 17B
BASIN AREA = 3.57 AC.
SHW EL = 27.10
TOP OF BANK = 1.28 AC.
WEIR EL = 27.60
DHW (25YR - 24HR) = 28.59
DHW (100YR - 24HR) = 28.70

DIRECTION OF FLOW
BASIN BOUNDARY
SECTION LINE
(S-XXX) PROPOSED DRAINAGE STRUCTURE
(XX) EXISTING DRAINAGE STRUCTURE

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (10 OF 13)

SHEET NO. 21

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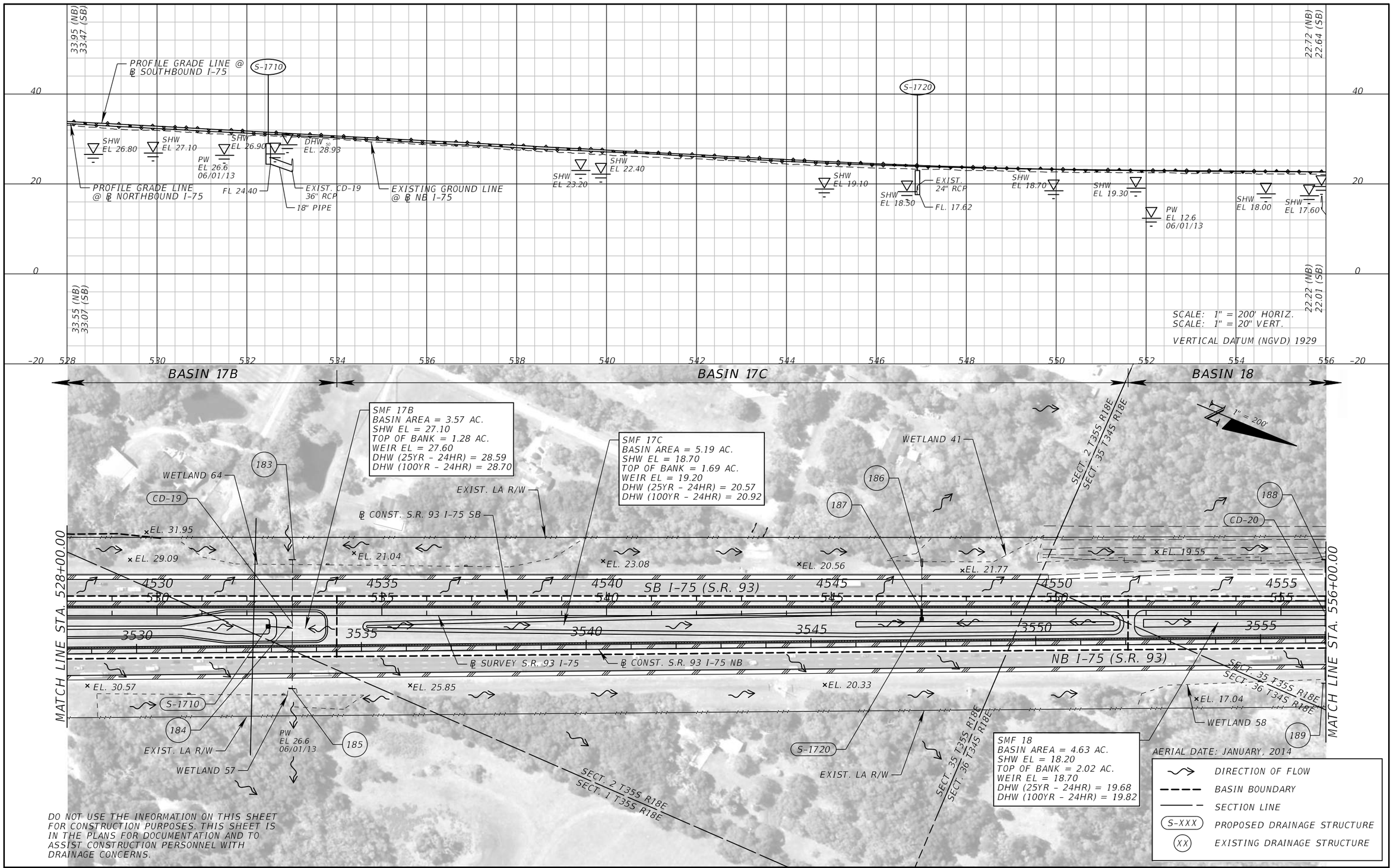

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (11 OF 13)

SHEET NO. 22

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22.72 (NB)
22.64 (SB)

20.57 (NB)
20.45 (SB)

40

20

0

22.22 (NB)
22.01 (SB)

20.27 (NB)
19.87 (SB)

-20

556 558 560 562 564 566 568 570 572 574 576 578 580 582 584

DHW
EL. 19.66

EXIST. CD-20
36" RCP
FL. 14.35

SHW
EL 18.20

SHW
EL 15.90

EXISTING GROUND LINE
@ ℄ NB I-75

S-1800

SHW
EL 16.90

FL. 17.10

EXIST. 24" RCP

SHW
EL 17.50

SHW
EL 16.70

PROFILE GRADE LINE @
℄ SOUTHBOUND I-75

PROFILE GRADE LINE @
℄ NORTHBOUND I-75

SHW
EL 15.70

SHW
EL 15.90

S-1900

EXIST.
24" RCP

SHW
EL 13.90

FL. 15.58

SHW
EL 12.50

SCALE: 1" = 200' HORIZ.
SCALE: 1" = 20' VERT.

VERTICAL DATUM (NGVD) 1929

BASIN 18

BASIN 19A

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SMF 19A
BASIN AREA = 4.44 AC.
SHW EL = 15.90
TOP OF BANK = 1.45 AC.
WEIR EL = 18.30
DHW (25YR - 24HR) = 19.07
DHW (100YR - 24HR) = 19.24

1" = 200'

188

WETLAND 40

EXIST. LA R/W

℄ CONST. S.R. 93 I-75 SB

190

WETLAND 60

S-1900

MATCH LINE STA. 556+00.00

EL. 17.86

EL. 17.42

EL. 17.45

EL. 16.52

4560 4565 4570 4575 SB I-75 (S.R. 93) 4580

560 565 570 575 580

3560 3565 3570 3575 3580

MATCH LINE STA. 584+00.00

℄ SURVEY S.R. 93 I-75

NB I-75 (S.R. 93)

CD-20

EL. 18.59

EL. 17.48

EL. 16.82

EL. 16.80

EL. 14.83

189

PW
EL 12.6
06/01/13

WETLAND 58

℄ CONST. S.R. 93 I-75 NB

191

S-1800

192

193

EXIST. LA R/W

SECT. 35 T34S R18E
SECT. 36 T34S R18E

SMF 18
BASIN AREA = 4.63 AC.
SHW EL = 18.20
TOP OF BANK = 2.02 AC.
WEIR EL = 18.70
DHW (25YR - 24HR) = 19.68
DHW (100YR - 24HR) = 19.82

AERIAL DATE: JANUARY, 2014

DIRECTION OF FLOW
BASIN BOUNDARY
SECTION LINE
S-XXX PROPOSED DRAINAGE STRUCTURE
XX EXISTING DRAINAGE STRUCTURE

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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (12 OF 13)

SHEET NO. 23

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END CONSTRUCTION
STA. 4606+11.32 ℄ SURVEY S.R. 93 (I-75)

EQUATION:
PI STA. 3589+54.77 ℄ CONST. NB I-75 BK =
PI STA. 3589+09.27 ℄ CONST. NB I-75 AH

20.57 (NB)
20.45 (SB)

PROFILE GRADE LINE @
℄ NORTHBOUND I-75

32.61 (NB)

39.43 (SB)

EXISTING GROUND LINE
@ ℄ NB I-75

S-1910

SHW
EL 13.90

SHW
EL 10.80

SHW
EL 11.90

DHW 50
EL. 15.64

EXIST. CD-21 8' X 7' CBC

FL. 7.36

SHW
EL 9.90

PW
EL 8.7
06/01/13

PROFILE GRADE LINE @
℄ SOUTHBOUND I-75

20.27 (NB)
19.87 (SB)

SCALE: 1" = 200' HORIZ.
SCALE: 1" = 20' VERT.

VERTICAL DATUM (NGVD) 1929

60 40 20 0

584 586 588 590 592 594 596 598 600 602 604 606 608 610 612

BASIN 19A

BASIN 19B

SMF 19A
BASIN AREA = 4.44 AC.
SHW EL = 15.90
TOP OF BANK = 1.45 AC.
WEIR EL = 18.30
DHW (25YR - 24HR) = 19.07
DHW (100YR - 24HR) = 19.24

SMF 19B
BASIN AREA = 1.80 AC.
SHW EL = 11.90
TOP OF BANK = 0.19 AC.
WEIR EL = 20.10
DHW (25YR - 24HR) = 20.83
DHW (100YR - 24HR) = 20.95

EXIST. LA R/W

END WIDENING
END MILLING & RESURFACING
MATCH EXISTING
STA. 4596+00.00 ℄ CONST. S.R. 93 (I-75 SB)

END CONSTRUCTION
END GUARDRAIL
STA. 4606+11.32 ℄ CONST. S.R. 93 (SB)

S.R. 64

1" = 200'

WETLAND 60

WETLAND 34

194 195 196 197 198 199 200 201 202 203 204 205

EL. 13.10

EL. 12.06

EL. 17.64

EL. 16.81

4585 4590 4595 4600 4605 4610
3585 3590 3595 3600 3605 3610

SB I-75 (S.R. 93)

NB I-75 (S.R. 93)

℄ CONST. S.R. 93 I-75 SB

℄ SURVEY S.R. 93 I-75

℄ CONST. S.R. 93 I-75 NB

MATCH LINE STA. 584+00.00

CD-21

S-1910

EL. 14.77

EL. 21.09

EL. 21.19

EQUATION:
PI STA. 3589+54.77 ℄ CONST. NB I-75 BK =
PI STA. 3589+09.27 ℄ CONST. NB I-75 AH

PW
EL 8.7
06/01/13

WETLAND 38

WETLAND 59

END PROJECT
END WIDENING
END MILLING & RESURFACING
MATCH EXISTING
STA. 3599+60.00 ℄ CONST. S.R. 93 (I-75 NB)

END CONSTRUCTION
END GUARDRAIL, MATCH EXIST
STA. 3603+40.00 ℄ CONST. S.R. 93 (NB)

EXIST. LA R/W

SECT 35 T14S R18E
SECT 26 T14S R18E

320

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AERIAL DATE: JANUARY, 2014

DIRECTION OF FLOW
BASIN BOUNDARY
SECTION LINE
S-XXX PROPOSED DRAINAGE STRUCTURE
XX EXISTING DRAINAGE STRUCTURE

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (13 OF 13)

SHEET NO. 24

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STRUCTURE	AREA (AC)
S-1210	0.255
S-1211	0.451
S-1212	0.222
S-1214	0.289
S-1215	0.275
S-1216	0.185
S-1217	0.104
S-1218	0.137
S-1219	0.086
S-1220	0.117
S-1221	0.116

STRUCTURE	AREA (AC)
S-1222	0.087
S-1223	0.060
S-1224	0.237
S-1225	0.076
S-1225A	0.104
S-1226	0.542
S-1228	0.236
S-1229	0.551
S-1230	0.246
S-1231	0.251
S-1232	0.643
S-1233	0.253

BEGIN CONSTRUCTION
BEGIN MILLING & RESURFACING
BEGIN WIDENING
MATCH EXISTING
STA. 1281+90.00 ℄ CONST. S.R. 70

BASIN 12

CD-11
S-1213
S-1215
S-1218
S-1221
S-1222
S-1227
28.08
34.17
33.44
EXIST. GROUND LINE ℄ CONST. S.R. 70
PROFILE GRADE LINE ℄ CONST. S.R. 70 EB
18" PIPE
FL 24.20
FL 22.60
FL 24.40
EXIST. 6' X 3' CBC
DHW EL. 25.32
SHW EL 23.80
PW EL 21.7 06/01//13
FL. 20.83
FL 24.30
FL 24.40
FL 24.50
FL 23.90
SCALE: 1" = 200' HORIZ.
SCALE: 1" = 20' VERT.
VERTICAL DATUM (NGVD) 1929

SMF 12A1
BASIN AREA = 0.74 AC.
SHW EL = 25.00
TOP OF BANK = 0.11 AC.
DHW (25YR - 24HR) = 26.82
DHW (100YR - 24HR) = 27.00

SMF 12A2
BASIN AREA = 0.90 AC.
SHW EL = 25.00
TOP OF BANK = 0.16 AC.
WEIR EL = 25.90
DHW (25YR - 24HR) = 26.76
DHW (100YR - 24HR) = 26.91

SMF 12C
BASIN AREA = 0.77 AC.
SHW EL = 25.00
TOP OF BANK = 0.16 AC.
WEIR EL = 25.80
DHW (25YR - 24HR) = 26.80
DHW (100YR - 24HR) = 27.02

SMF 12D
BASIN AREA = 3.80 AC.
SHW EL = 27.30
TOP OF BANK = 1.36 AC.
WEIR EL = 27.70
DHW (25YR - 24HR) = 28.55
DHW (100YR - 24HR) = 28.74

SMF 12B
BASIN AREA = 1.21 AC.
SHW EL = 23.50
TOP OF BANK = 0.22 AC.
WEIR EL = 24.11
DHW (25YR - 24HR) = 24.77
DHW (100YR - 24HR) = 24.88

SMF 12E
BASIN AREA = 4.13 AC.
SHW EL = 27.00
TOP OF BANK = 0.92 AC.
WEIR EL = 27.34
DHW (25YR - 24HR) = 28.33
DHW (100YR - 24HR) = 28.53

CREEKWOOD BLVD.
CROSS CREEK
TARA BLVD.
MANOR HILL WAY
MATCH LINE STA. 1298+00.00
EXIST. R/W
EXIST. LA R/W
℄ CONST. S.R. 70
℄ SURVEY S.R. 70
S.R. 70
EL. 26.72
EL. 22.94
EL. 22.28
EL. 26.20
OSW #16
OSW #14
OSW #15
OSW #13
OSW #12
OSW #17
OSW #18
OSW #19
EX 24
EX 27
EX 26
EX 36
EX 21
EX 3
EX 4
EX MES27
EX MES 28
EX 28
EX 105B
EX 105
EX 5
EX 106
EX MES29
EX 29
EX 104B
EX 2
EX 103
EX 102
EX 100
EX 0-100
EX 1
EX 108
S-1200
S-1217
S-1214
S-1212
S-1219
S-1213
S-1216
S-1215
S-1218
S-1220
S-1221
S-1222
S-1223
S-1224A
S-1224
S-1228
S-1229
S-1230
S-1227
S-1226
S-1225
S-1231
S-1233
S-1232
S-1211
CD-11
S-1222
234A
AERIAL DATE: JANUARY, 2014

DIRECTION OF FLOW
BASIN BOUNDARY
SECTION LINE
S-XXX PROPOSED DRAINAGE STRUCTURE
XX EXISTING DRAINAGE STRUCTURE

BEGIN CONSTRUCTION
BEGIN MILLING & RESURFACING
BEGIN WIDENING
MATCH EXISTING
STA. 1281+90.00 ℄ CONST. S.R. 70

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (1 OF 3)
S.R. 70

SHEET NO. 25

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SCALE: 1" = 200' HORIZ.
SCALE: 1" = 20' VERT.

VERTICAL DATUM (NGVD) 1929

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NOTE: SEE INTERCHANGE DRAINAGE MAP FOR ADDITIONAL DRAINAGE INFO.

AERIAL DATE: JANUARY, 2014

- DIRECTION OF FLOW
- BASIN BOUNDARY
- SECTION LINE
- S-XXX PROPOSED DRAINAGE STRUCTURE
- XX EXISTING DRAINAGE STRUCTURE

MATCH LINE STA. 1298+00.00

MATCH LINE STA. 1326+00.00

MATCH LINE STA. 919+00.00

MATCHLINE STA. 416+00.00

MATCHLINE STA. 820+00.00

BEGIN BRIDGE (I-75 SB) STA. 4417+39.24

END BRIDGE (I-75 SB) STA. 4419+77.24

BEGIN BRIDGE (I-75 NB) STA. 3416+74.76

END BRIDGE (I-75 NB) STA. 3419+12.76

BASIN 12 | BASIN 11 | BASIN 10 | BASIN 11 | BASIN 10 | BASIN 13

BEGIN SPECIAL DT 1 RT. +00.00 EL. 33.25

VPI SPECIAL DT 1 RT. +00.00 EL. 32.10

(+) 1.178%

END SPECIAL DT 1 RT. +33.95 EL. 32.50

BEGIN SPECIAL DT 11 LT. +50.00 EL. 29.00

(-) 0.125%

VPI SPECIAL DT 11 LT. FOR CONTINUATION OF DITCH SEE RAMP A1 PROFILE +50.00 EL. 28.75

(-) 0.383%

DHW 50 EL. 32.00

SHW EL 27.90

EXIST. 6' X 3' CBC FL. 26.72

24" PIPE FL 30.30

18" PIPE FL 31.00

EXIST. GROUND LINE ℄ CONST. S.R. 70

PROFILE GRADE LINE ℄ CONST. S.R. 70 EB

18" PIPE FL 28.20

FL 32.00

EXIST. 6' X 3' CBC FL. 32.50

18" PIPE

DHW 50 EL. 33.10

SHW EL 30.6

PW EL 29.7 06/01/13

(-) 0.541% FL 32.80

FL. 28.43

VPI SPECIAL DT 11A RT. FOR CONTINUATION OF DITCH SEE RAMP B1 PROFILE +50.00 EL 29.80

(-) 0.200%

VPI SPECIAL DT 11A RT. +00.00 EL 29.70

END SPECIAL DT 11A RT. +22.00 EL 28.50

℄ RAMP A2 | ℄ RAMP A1 | ℄ CONST. S.R. 93 I-75 SB | SMF 11B1 | ℄ RAMP B1 | SMF 11B8 | EXIST. R/W | ℄ RAMP B2 | ℄ CONST. S.R. 70 | ℄ SURVEY S.R. 70 | S.R. 70 | ℄ RAMP D1 | OSW #20 | OSW #2 | EXIST. R/W

SMF 12D | SMF 12E | SMF 11B4 | SMF 11B2 | SMF 10A | SMF 11A

EL. 26.31 | EL. 26.21 | EL. 27.83 | EL. 30.06 | EL. 26.90 | EL. 28.91 | EL. 31.48 | EL. 30.24

0.643 AC | 0.261 AC | 0.354 AC | 0.274 AC | 0.282 AC | 0.256 AC | 0.278 AC | 0.515 AC | 0.343 AC | 0.533 AC | 0.459 AC | 0.066 AC | 0.074 AC | 0.075 AC | 0.047 AC | 0.328 AC | 0.253 AC | 0.256 AC | 0.258 AC | 0.134 AC | 0.487 AC | 0.239 AC | 0.473 AC | 0.373 AC | 0.673 AC | 0.939 AC | 0.038 AC | 0.276 AC | 0.113 AC | 0.539 AC | 0.204 AC | 0.307 AC | 0.506 AC | 2.213 AC | 1.986 AC | 0.117 AC | 0.200 AC | 0.205 AC | 0.560 AC | 0.033 AC | 0.166 AC | 0.115 AC

S-1155 | S-1154 | S-1152 | S-1157 | S-1111A | S-1111 | S-1110 | S-1151 | S-1150 | S-1112A | S-1113A | S-1113 | S-1112 | S-1116A | S-1114 | S-1115 | S-1157A | S-1116 | S-1116B | S-1120 | S-1121 | S-1117 | S-1118 | S-1119 | S-1015 | S-1014 | S-1123 | S-1124 | S-1124A | S-1300 | S-1311 | S-1125 | S-1026 | S-1310 | S-1027 | S-1235 | S-1236 | S-1234 | S-1011 | S-1012 | S-1013 | S-1013A | S-1001

CD-23 | CD-25 | CD-12 | CD-13

EX 109 | EX 124 | EX 112 | EX 110 | EX 111 | EX 120 | EX 121 | EX 122 | EX MES 123 | EX 123 | EX 114 | EX 113 | EX 115 | EX 116 | EX 117 | EX MES 122 | EX 125 | EX 118 | EX 128 | EX 119 | EX 127 | EX 126 | EX 130 | EX 131 | EX 8 | EX 132 | EX 135 | EX 136 | EX 134 | EX MES 135 | EX 134A | EX 137 | EX 129 | EX 141 | EX 133 | EX MES 141 | EX 138

237 | 236 | 238 | 239 | 240 | 241 | 242 | 243 | 245 | 246 | 247 | 248 | 249 | 250 | 253 | 256 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 271 | 271A | 272 | 273

300 | 305 | 310 | 315 | 320 | 325 | 910 | 915 | 920 | 925 | 930 | 935

1298 | 1300 | 1302 | 1304 | 1306 | 1308 | 1310 | 1312 | 1314 | 1316 | 1318 | 1320 | 1322 | 1324 | 1326

60 | 40 | 20 | 0 | 34.17 | 33.44 | 38.45 | 38.17

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.
4030 WEST BOY SCOUT BLVD., STE. 700
TAMPA, FLORIDA 33607
(813) 282-7275
CERTIFICATE OF AUTHORIZATION NO. 24
Richard D. Uptegraff, P.E. NO. 58789

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (2 OF 3)
S.R. 70

SHEET NO. 26

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END CONSTRUCTION
END MILLING & RESURFACING
END WIDENING
MATCH EXISTING
STA. 1342+00.00 ℄ CONST. S.R. 70

EXIST. GROUND LINE
℄ CONST. S.R. 70

PROFILE GRADE LINE
℄ CONST. S.R. 70 EB

S-1312
EX-140
38.45
38.17
40.91
18" PIPE
FL 32.50
18" PIPE
FL 29.90
EXIST. 30" PIPE
EXIST. FL 28.84

SCALE: 1" = 200' HORIZ.
SCALE: 1" = 20' VERT.

VERTICAL DATUM (NGVD) 1929

BASIN 13

SMF 13A
BASIN AREA = 2.03 AC.
SHW EL = 31.00
TOP OF BANK = 0.37 AC.
WEIR EL = 31.50
DHW (25YR - 24HR) = 32.81
DHW (100YR - 24HR) = 33.03

SMF 13C1
BASIN AREA = 1.10 AC.
SHW EL = 33.10
TOP OF BANK = 0.29 AC.
WEIR EL = 34.30
DHW (25YR - 24HR) = 35.28
DHW (100YR - 24HR) = 35.44

SMF 13C2
BASIN AREA = 1.61 AC.
SHW EL = 33.10
TOP OF BANK = 0.21 AC.
DHW (25YR - 24HR) = 35.40
DHW (100YR - 24HR) = 35.61

SMF 13B1
BASIN AREA = 3.16 AC.
SHW EL = 33.10
TOP OF BANK = 0.58 AC.
WEIR EL = 34.00
DHW (25YR - 24HR) = 35.13
DHW (100YR - 24HR) = 35.33

SMF 13B2
BASIN AREA = 2.06 AC.
SHW EL = 34.30
TOP OF BANK = 0.14 AC.
DHW (25YR - 24HR) = 35.27
DHW (100YR - 24HR) = 35.59

STRUCTURE	AREA (AC)
S-1312	0.693
S-1313	0.408
S-1313A	0.046
S-1314	0.205
S-1315	0.667
S-1316	0.828
S-1316A	0.216
S-1318	0.250
S-1319	0.515
S-1319A	0.149

STRUCTURE	AREA (AC)
S-1320	0.248
S-1321	0.134
S-1322	0.125
S-1323	0.262
S-1324	0.085
S-1325	0.266
S-1326	0.255
S-1327	0.138

LENA RD.
EXIST. R/W
MATCH LINE STA. 1326+00.00
RANCH LAKE DR
87TH ST. E.
87TH ST. W.
S.R. 70
℄ SURVEY S.R. 70
℄ CONST. S.R. 70
EXIST. R/W
OSW #7 EL. 32.44
OSW #9
OSW #3 EL. 34.96
OSW #4
OSW #5
SMF 13A EL. 29.97
SMF 13B1 EL. 33.06
SMF 13C1
SMF 13C2
1" = 200'

AERIAL DATE: JANUARY, 2014

DIRECTION OF FLOW
BASIN BOUNDARY
SECTION LINE
S-XXX PROPOSED DRAINAGE STRUCTURE
XX EXISTING DRAINAGE STRUCTURE

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

END CONSTRUCTION
END MILLING & RESURFACING
END WIDENING
MATCH EXISTING
STA. 1342+00.00 ℄ CONST. S.R. 70

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.
4030 WEST BOY SCOUT BLVD., STE. 700
TAMPA, FLORIDA 33607
(813) 282-7275
CERTIFICATE OF AUTHORIZATION NO. 24
Richard D. Uptegraff, P.E. NO. 58789

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

DRAINAGE MAP (3 OF 3)
S.R. 70

SHEET NO. 27

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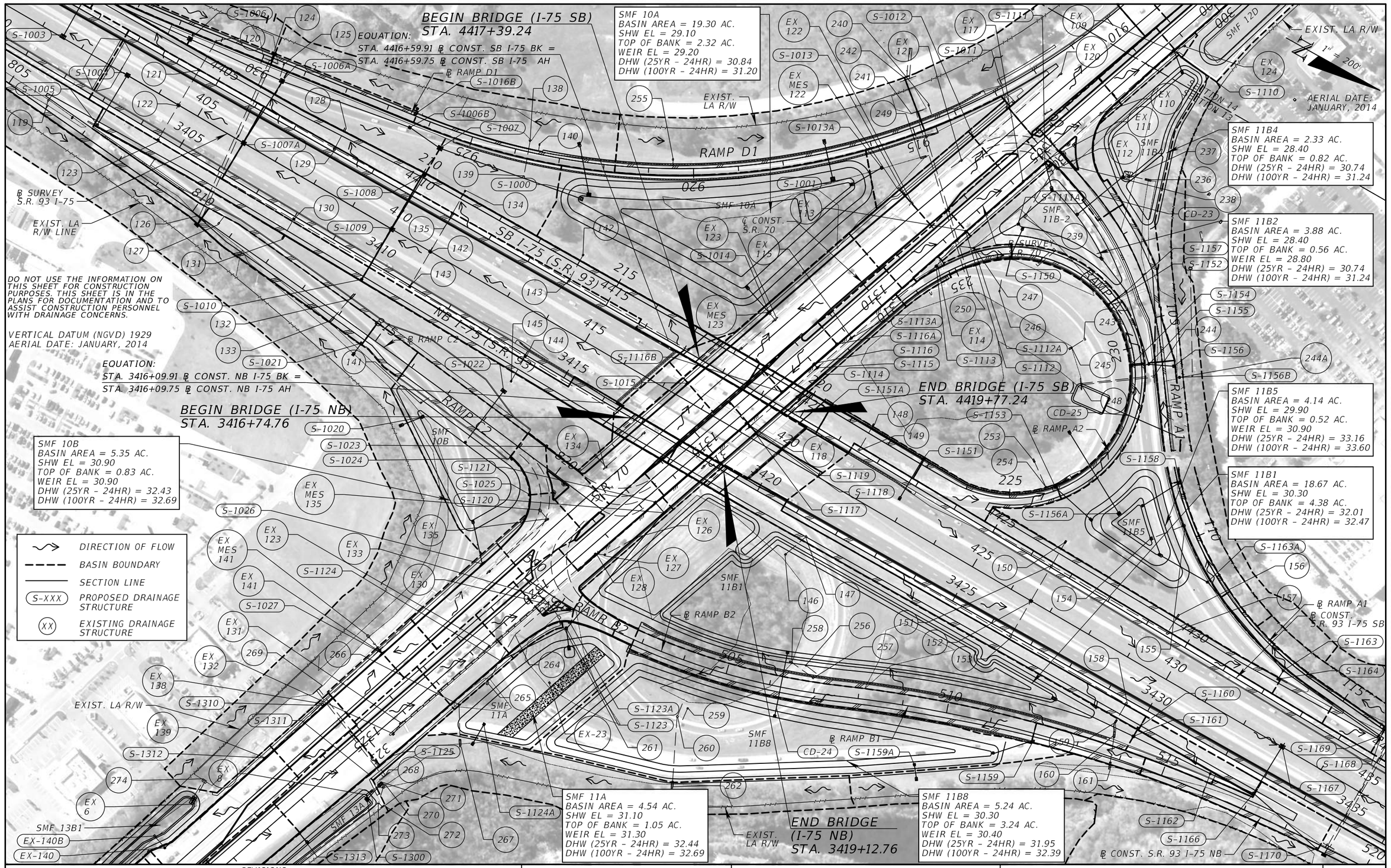

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TAMPA, FLORIDA 33607
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

INTERCHANGE DRAINAGE MAP

SHEET NO. **28**

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STRUCTURE NUMBER	STATION	DESCRIPTION	SIZE (IN) / TYPE	INVERT				GRATE OR TOP EL	MES INVERT	ENDWALL INVERT
				NW	SW	NE	SE			
1 – 59	NOT USED									
61	251+20.71	DITCH BOTTOM INLET	18 RCP			18.81		21.71		
62	251+20.92	U-ENDWALL WITH GRATE	18 RCP		18.55					18.55
63	250+43.53	STEEL PIPE	36 STEEL	11.06						
64	252+69.48	MITERED END SECTION	48 RCP			8.24			8.24	
65	254+68.64	MANHOLE/MES	18 RCP			16.21		16.26		10.35
66	268+00.67	DITCH BOTTOM INLET	18 RCP			17.44		20.13		
67	268+00.44	U-ENDWALL	18 RCP		17.10					17.10
68	276+99.79	ENDWALL	36 RCP			14.68				14.68
69	277+00.76	ENDWALL	36 RCP		14.11					14.11
69A	279+04.80	PIPE	24 CMP	11.82		11.60				
70	280+79.73	ENDWALL	30 RCP			13.57				13.57
71	281+90.94	DITCH BOTTOM INLET	30 RCP		13.12	9.79		18.92		
72	283+27.01	ENDWALL-RCP	30 RCP		9.31					9.31
73	283+52.55	ENDWALL	27 X 43 CMP	10.00		9.84				9.84
74	285+90.26	ENDWALL	36 RCP		8.85					8.85
75	286+10.97	ENDWALL	36 RCP			7.75				7.75
76	285+98.01	ENDWALL	36 CMP	8.26			8.26			8.26
76A	293+74.60	ENDWALL	42 RCP	7.90						7.90
77	293+29.93	INLET	42 RCP	5.29			5.29	17.69		
77A	293+11.68	ENDWALL	42 RCP				4.05			4.05
78	309+65.60	TYPE S GUTTER INLET	18 RCP			16.99		23.44		
79	309+65.95	FLARED END SECTION	18 RCP		16.24				16.24	
80	310+00.66	FLARED END SECTION	18 RCP			16.07			16.07	
81	310+00.92	TYPE S GUTTER INLET	18 RCP		15.75			23.52		
82	316+99.76	INLET	18 CMP			21.74		24.87		
83	317+00.61	U-ENDWALL	18 CMP		13.49					13.49
84	317+48.06	U-ENDWALL	18 CMP			7.91				7.91
85	317+47.04	DITCH BOTTOM INLET	18 CMP		21.94			24.65		
86	317+70.49	ENDWALL	54 RCP		3.58					3.58
87	318+37.16	DITCH BOTTOM INLET	18 CMP			22.11		25.10		
88	318+37.92	U-ENDWALL	18 CMP		15.53					15.53
89	318+99.45	U-ENDWALL	60 RCP			3.09				3.09
90	318+99.92	DITCH BOTTOM INLET	18 CMP		22.85			25.18		
91	331+00.96	ENDWALL	30 RCP			12.98				12.98
92	331+00.21	DITCH BOTTOM INLET	30 RCP		14.07	14.07		22.23		
93	330+99.66	ENDWALL	30 RCP		14.22					14.22
94	330+14.79	MITERED END SECTION	NO SURVEY							
95	331+03.87	INLET	NO SURVEY							
96	331+42.76	INLET	NO SURVEY							
97	332+08.79	ENDWALL	NO SURVEY							
98	332+75.58	PIPE	NO SURVEY							
99	333+48.11	INLET	NO SURVEY							
100	333+87.17	INLET	NO SURVEY							
101	334+25.79	PIPE	NO SURVEY							
102	334+45.36	ENDWALL	NO SURVEY							
103	336+00.23	FLARED END SECTION	42 RCP			13.52			13.52	
104	336+02.45	FLARED. END SECTION	42 RCP		14.05				14.05	
105	345+01.20	U-ENDWALL	18 RCP			14.77				14.77
106	345+00.97	DITCH BOTTOM INLET	18 RCP		15.27			18.50		
107	360+01.05	ENDWALL	60 X 60 CBC			11.19				11.19
108	360+00.00	ENDWALL	60 X 60 CBC		11.32					11.32
109	371+68.81	DITCH BOTTOM INLET	18 RCP	15.17				17.87		
110	372+00.81	ENDWALL	60 X 60 CBC			11.83				11.83
111	372+00.85	ENDWALL	60 X 60 CBC		12.27					12.27
112	372+33.52	DITCH BOTTOM INLET	18 RCP				15.06	17.81		
113	382+00.61	FLARED END SECTION	48 RCP			11.85			11.85	
114	382+02.46	DITCH BOTTOM INLET	48 RCP		11.95	11.93		19.90		
115	382+04.12	FLARED END SECTION	48 RCP		12.06				12.06	
116	393+00.69	DITCH BOTTOM INLET	18 RCP	21.21				23.89	20.77	
117	394+66.73	PIPE FILLED WITH CONCRETE	6 RCP							
118	397+69.08	PIPE FILLED WITH CONCRETE	6 RCP							
119	401+94.38	PIPE	4 PVC	26.65						
120	404+51.21	ENDWALL	18 RCP				26.05			26.05
121	404+50.89	TYPE S GUTTER INLET	18 RCP	26.75			28.59	33.37		
122	404+50.52	DITCH BOTTOM INLET	18 RCP	29.02			28.97	31.54		
123	404+50.14	TYPE S GUTTER INLET	18 RCP	29.42				33.28		
124	405+79.12	ENDWALL	84 X 48 CBC			24.13				24.13
125	406+11.34	PVC PIPE	4 PVC			28.45				
126	406+19.15	ENDWALL	84 X 48 CBC		24.40					24.40
127	406+62.24	PVC PIPE	4 PVC	30.09						
128	407+98.97	U-ENDWALL	NO SURVEY							
129	408+00.66	INLET	NO SURVEY							
130	408+00.86	TYPE S GUTTER INLET	15 CMP				38.98	41.99		
131	408+01.01	U-ENDWALL	15 CMP	30.43						30.43
132	410+00.38	U-ENDWALL	24 RCP				27.67			27.67
133	409+88.16	INLET	24 RCP		27.58					
134	410+99.78	U-ENDWALL	15 CMP			28.61				28.61
135	411+00.62	TYPE S GUTTER INLET	15 CMP		45.18			49.70		
136	411+00.68	DITCH BOTTOM INLET	18 RCP				45.26	48.58		
137	411+00.38	TYPE S GUTTER INLET	18 RCP	45.92				50.07		
138	412+52.19	INLET	4 PVC				31.25			
139	411+96.09	U-ENDWALL	24 RCP			27.26				
140	411+69.11	U-ENDWALL	24 RCP		27.27					

STRUCTURE NUMBER	STATION	DESCRIPTION	SIZE (IN) / TYPE	INVERT				GRATE OR TOP EL	MES INVERT	ENDWALL INVERT
				NW	SW	NE	SE			
141	411.90+60	PIPE	4 PVC		29.73					
142	413+99.32	U-ENDWALL	15 CMP			29.06				29.06
143	414+00.79	TYPE S GUTTER INLET	15 CMP		52.23			55.24		
144	414+01.01	TYPE S GUTTER INLET	15 CMP			52.16		55.49		
145	414+01.87	U-ENDWALL	15 CMP		29.65					29.65
145A	416+45.90	MITERED END SECTION	18 RCP		31.19					31.19
146	1315+25.56	U-ENDWALL	15 CMP	31.42						31.42
147	1314+67.40	INLET	15 CMP				50.01	54.11		
148	1311+88.68	U-ENDWALL	15 CMP				28.70			28.70
149	1312+50.04	TYPE S GUTTER INLET	15 CMP	50.84				55.86		
150	426+51.23	U-ENDWALL	15 CMP				30.64			30.64
151	426+51.29	TYPE S GUTTER INLET	15 CMP	40.72				46.25		
			18 RCP				41.00			
152	426+51.03	DITCH BOTTOM INLET	18 RCP	41.42			41.41	44.56		
153	426+50.97	TYPE S GUTTER INLET	18 RCP	42.07				46.06		
154	428+14.45	INLET	18 RCP				27.71	29.87		
155	428+63.37	MITERED END SECTION	18 RCP	27.24					27.27	
156	429+51.40	U-ENDWALL	15 CMP				31.48			31.48
157	429+50.40	TYPE S GUTTER INLET	15 CMP				36.58	38.91		
158	429+49.78	TYPE S GUTTER INLET	15 CMP		36.83			38.84		
159	429+49.94	U-ENDWALL	15 CMP	30.62						30.62
160	429+64.17	U-ENDWALL	24 RCP			29.30				29.30
161	429+85.79	ENDWALL	24 RCP			29.20				29.20
161A	430+15.80	WING WALL	NO SURVEY							
162	435+00.53	ENDWALL	72 X 36 CBC				28.24			28.24
162A	435+00.53	INLET	72 X 36 CBC					32.17		
163	435+00.81	ENDWALL	72 X 36 CBC	28.50						28.50
164	456+01.20	DITCH BOTTOM INLET	18 RCP				29.43			
165	456+00.52	U-ENDWALL	18 RCP	28.83						28.83
165A	456+91.08	INLET	NO SURVEY							
166	467+50.01	ENDWALL	60 X 48 CBC	23.93						23.93
167	468+00.76	DITCH BOTTOM INLET	60 X 48 CBC							
168	468+51.11	ENDWALL	60 X 48 CBC				23.49			23.49
169	475+72.25	ENDWALL	(2) 72 X 72 CBC			22.15				22.15
						22.25				22.25
170	476+13.91	DITCH BOTTOM INLET	18 RCP			26.77				
171	476+27.21	ENDWALL	(2) 72 X 72 CBC		22.19					22.19
					22.23					22.23
172	481+01.14	DITCH BOTTOM INLET	18 RCP				27.40			
173	481+00.60	U-ENDWALL	18 RCP	26.86						26.86
174	492+71.18	ENDWALL	54 RCP			24.55				24.55
174A	493+22.18	PIPE	48 CMP	26.73			25.84			
175	492+71.17	ENDWALL	54 RCP		24.68					24.68
176	497+00.92	U-ENDWALL	24 RCP			28.01				28.01
177	497+00.56	U-ENDWALL	24 RCP		27.83					27.83
178	507+00.63	U-ENDWALL	24 RCP			28.18				28.18
179	507+00.60	U-ENDWALL	24 RCP		28.50					28.50
180	519+33.68	ENDWALL	NO SURVEY							
181	520+08.19	DITCH BOTTOM INLET	30 RCP	28.32						
182	520+82.44	ENDWALL	30 RCP				28.04			28.04
183	533+01.23	ENDWALL	36 RCP			25.03				25.03
184	532+93.26	DITCH BOTTOM INLET	18 RCP			22.89				
185	533+00.38	ENDWALL	36 RCP		21.98					21.98
186	547+01.17	U-ENDWALL	24 RCP			17.62				17.62
187	547+01.02	U-ENDWALL	25 RCP		17.82					17.82
188	556+00.93	ENDWALL	(2) 36 RCP			14.35				14.35
						14.37				14.37
189	556+00.32	ENDWALL	(2) 36 RCP		14.23					14.23
					14.38					14.38
190	569+01.01	U-ENDWALL	24 RCP			17.07				17.07
191	569+00.82	U-ENDWALL	24 RCP		16.44					16.44
192	582+00.94	U-ENDWALL	24 RCP			15.58				15.58
193	582+01.04	U-ENDWALL	24 RCP		13.94					13.94
194	590+62.77	ENDWALL	96 X 84 CBC			7.46				7.46
195	590+61.31	DITCH BOTTOM INLET	NO SURVEY							
196	590+61.20	ENDWALL	98 X 84 CBC		7.28					7.28
197	593+26.32	TYPE S GUTTER INLET	15 RCP			19.20		24.72		
198	593+26.49	U-ENDWALL	15 RCP		14.40					14.40
199	595+99.76	U-ENDWALL	15 CMP			13.38				13.38
200	595+99.76	TYPE S GUTTER INLET	15 CMP		25.94					
			18 RCP			25.94				
201	596+00.78	TYPE S GUTTER INLET	18 RCP		26.63			30.98		
202	600+00.84	TYPE S GUTTER INLET	15 RCP			34.45				
203	600+00.26	DITCH BOTTOM INLET	15 RCP		33.94					
204	600+00.52	TYPE S GUTTER INLET	15 RCP			33.31		38.57		
205	600+01.16	U-ENDWALL	15 RCP		15.01					15.01
210	1270+18.14	MITERED END SECTION	24 CMP				19.87			19.87
211	1270+83.41	INLET	19 X 30 RCP	20.05			20.09			
212	1271+82.71	MANHOLE	19 X 30 RCP	20.39			20.45			
213	1273+97.05	INLET	14 X 23 RCP	21.54	20.51		20.51			
214	1274+18.19	MANHOLE	19 X 30 RCP	20.81		20.80				
215	1274+51.22	MITERED END SECTION	19 X 30 RCP				20.98		20.98	
216	1274+47.70	MITERED END SECTION	18 RCP	20.69					20.69	
217	1274+92.05	MITERED END SECTION	18 RCP				20.79		20.79	

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REVISIONS

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

EXISTING DRAINAGE STRUCTURES

SHEET NO. 29

STRUCTURE NUMBER	STATION	DESCRIPTION	SIZE (IN) / TYPE	INVERT				GRATE OR TOP EL	MES INVERT	ENDWALL INVERT
				NW	SW	NE	SE			
218	1276+09.91	MITERED END SECTION	18 RCP				22.56		22.56	
219	1277+18.12	MITERED END SECTION	14 X 23 RCP		22.13				22.13	
220	1278+97.99	INLET	14 X 24 RCP		22.46	22.48				
221	1279+72.85	MITERED END SECTION	14 X 25 RCP		22.05				22.05	
222	1280+73.63	MANHOLE	14 X 26 RCP		23.36	23.48				
223	1282+00.27	MANHOLE	14 X 27 RCP	23.81	23.78	23.86				
224	1281+99.77	MANHOLE	18 RCP							
225	1283+67.03	MITERED END SECTION	18 RCP	23.96					23.96	
226	1284+31.80	MITERED END SECTION	18 RCP			23.79			23.79	
228	1286+18.43	INLET	18 RCP		24.02					
229	1286+14.53	ENDWALL	72 X 36 CBC		20.55					20.55
230	1286+76.53	MITERED END SECTION	18 RCP		21.56				21.56	
231	1286+84.15	ENDWALL	68 X 43 CBC	22.19						22.19
232	1286+87.02	MITERED END SECTION	18 RCP	22.48					22.48	
233	1286+81.63	ENDWALL	72X 36 CBC		21.12					21.12
234	1289+18.03	MITERED END SECTION	24 RCP	24.24					24.24	
234A	1289+46.69	MITERED END SECTION	24 RCP	25.29					25.29	
235	1291+99.91	MANHOLE	18 RCP	24.08	23.99					
236	1303+71.57	INLET	18 RCP	27.22						
237	1303+93.51	INLET	18 RCP	27.22				31.44		
238	1304+68.50	MITERED END SECTION	24 RCP	27.43					27.43	
239	1306+31.67	MITERED END SECTION	24 RCP			27.11			27.11	
240	1306+27.20	INLET	4 PVC		29.08					
241	1306+56.01	ENDWALL	72 X 36 CBC		26.68					26.68
242	1306+24.32	ENDWALL	72 X 36 CBC		25.77					25.77
243	1307+07.77	INLET	15 CMP	33.12				36.16		
244	1306+46.34	ENDWALL	72 X 36 CBC	27.20						27.20
245	1307+42.13	MITERED END SECTION	15 CMP				28.07		28.07	
246	1307+81.38	MITERED END SECTION	4 PVC			30.67			30.67	
247	1307+60.22	INLET	18 RCP	28.54			27.57	31.71		
248	1307+79.99	ENDWALL	72 X 36 CBC				27.10			27.10
249	1307+06.72	INLET	18 RCP				27.94			
250	1308+27.61	ENDWALL	72 X 36 CBC			26.76				26.76
253	1309+72.33	MITERED END SECTION	15 CMP		29.78				29.78	
254	1309+90.12	INLET	15 CMP	42.18						
255										
256	1316+55.48	MITERED END SECTION	4 PVC		40.12				40.12	
257	1316+61.74	INLET	18 CMP				41.85	46.32		
258	1316+74.82	MITERED END SECTION	18 CMP				30.95		30.95	
259	1319+16.51	MITERED END SECTION	4 PVC		34.81				34.81	
260	1319+45.84	INLET	24 RCP	30.48	30.46			38.32		
261	1320+00.29	MITERED END SECTION	18 RCP			29.08			29.08	
262	1320+50.06	INLET	24 RCP			30.34				
264	1320+99.80	INLET	24 RCP	29.72		29.61				
265	1322+19.86	MITERED END SECTION	24 RCP			28.45			28.45	
266	1322+96.93	INLET	24 RCP			29.81		33.19		
267	1323+46.34	INLET	24 RCP			29.67				
268	1325+26.51	ENDWALL	72 X 36 CBC			28.49				28.49
269	1325+12.49	ENDWALL	72 X 36 CBC		28.37					28.37
271	1325+40.55	MITERED END SECTION	30 RCP	28.89					28.89	
271A	1325+39.95	MITERED END SECTION	24 RCP		28.65				28.65	
272	1325+74.75	ENDWALL	18 RCP			30.71				30.71
273	1325+76.60	MANHOLE	18 RCP		28.68	29.96	28.86	32.88		
274	1328+34.08	MITERED END SECTION	(2) 30 RCP		28.74				28.74/28.76	
276	1330+49.45	MITERED END SECTION	24 RCP	31.29					31.29	
275	1330+44.09	MANHOLE	19 X 30 RCP	30.87			30.91			
277	1331+03.86	MANHOLE	19 X 31 RCP	31.12		32.50	31.14			
278	1333+56.66	MITERED END SECTION	19 X 30 RCP	33.95					33.95	
279	1333+85.12	ENDWALL	18 RCP			33.31				33.31
280	1333+84.94	MANHOLE	24 RCP	31.78		32.82	31.78			
281	1334+17.99	MITERED END SECTION	29 X 45 RCP		32.67				32.67	
282	1334+47.45	MANHOLE	29 X 45 RCP		32.71	32.76				
283	1335+14.38	MITERED END SECTION	19 X 30 RCP				34.04		34.04	
284	1336+41.28	MANHOLE	19 X 30 RCP	32.01			32.55			
286	1337+00.03	MITERED END SECTION	29 X 45 RCP		33.15				33.15	
287	1339+34.88	MITERED END SECTION	18 RCP		35.05				35.05	
288	1340+53.58	INLET	14 X 23 RCP							
289	1340+57.59	MANHOLE	18 RCP	33.81	33.86		33.86			
290	1341+19.99	MITERED END SECTION	(2) 18 RCP		35.29				35.29/35.24	
291	1341+85.32	MANHOLE	(2) 18 RCP		35.35					
292	1343+29.53	INLET	4 PVC			34.42		38.20		
292A	1343+50.28	PIPE	6 CPP				38.66			
293	1343+30.21	MANHOLE	18 RCP							
294	1343+42.43	MITERED END SECTION	18 RCP		36.47					
295	1344+44.13	MITERED END SECTION	12 PVC		38.36				38.36	
296	1344+54.25	MITERED END SECTION	18 RCP		36.45				36.45	
297	1347+0.63	MITERED END SECTION	18 RCP		36.83				36.83	
298	1348+48.76	MITERED END SECTION	19 X 30 RCP	38.04					38.04	
299	1349+61.79	MITERED END SECTION	19 X 30 RCP			38.71			38.71	
300	1351+00.31	INLET	18 RCP	39.20			39.14			
301	1351+05.52	MITERED END SECTION	18 RCP		35.35				35.35	
302	1353+05.85	MITERED END SECTION	24 X 38 RCP	39.31					39.31	
303	1353+50.51	MANHOLE	24 X 38 RCP	38.68	38.59		38.68			

STRUCTURE NUMBER	STATION	DESCRIPTION	SIZE (IN) / TYPE	INVERT				GRATE OR TOP EL	MES INVERT	ENDWALL INVERT
				NW	SW	NE	SE			
EX-1	1385+58.30	WEIR STRUCTURE	14 X 23 RCP	24.11						
EX-2	1290+49.63	WEIR STRUCTURE	24 RCP	25.24						
EX 3	1286+54.83	WEIR STRUCTURE	18 RCP							
EX 4	1287+07.88	WEIR STRUCTURE	18 RCP	22.84						
EX 5	1290+33.90	WEIR STRUCTURE	4 PVC			27.16				
			24 RCP	24.10						
EX 6	1328+75.39	DOUBLE WEIR STRUCTURE	30 RCP					35.52		
	1328+77.19		30 RCP					35.47		
EX 7	1343+19.02	DOUBLE WEIR STRUCTURE	18 RCP			35.51		39.30		
	1343+18.88		18 RCP			35.44		39.28		
EX 8	1325+67.21	WEIR STRUCTURE	30 RCP	29.03				32.88		
EX 9	1331+04.52	WEIR STRUCTURE	24 RCP	30.77				35.84		
EX 10	1339+35.13	TYPE 5 CURB INLET	18 RCP		35.22					
EX 21	1280+91.29	MANHOLE	14 X 23 RCP	23.91						
EX 23	1321+13.44	INLET	NO SURVEY							
EX 24	1282+78.79	INLET	18 RCP		24.66					
EX 26	1282+49.61	NO SURVEY								
EX 27	1284+48.98	TYPE 5 CURB INLET	18 RCP			23.99				
EX 28	1287+49.43	TYPE 5 CURB INLET	18 RCP			24.11				
EX 29	1290+70.80	TYPE 5 CURB INLET	19 X 30 RCP			25.84				
EX 30	1335+44.07	NO SURVEY								
EX 31	1335+61.68	MITERED END SECTION	29 X 45 RCP			33.14			33.14	
EX 32	1338+50.22	NO SURVEY								
EX 33	1337+00.45	TYPE 5 CURB INLET	29 X 45 RCP		33.14					
EX 34	1343+42.29	TYPE 5 CURB INLET	18 RCP		36.52					
EX 35	1343+55.79	TYPE 5 CURB INLET	18 RCP		36.45					
EX 36	1282+09.83	MANHOLE	18 RCP				24.42			
			14 X 23 RCP							
EX 100	1285+00.02	MANHOLE	18 RCP		22.82			23.66		
EX 0-100	1284+99.05	MITERED END SECTION	18 RCP						22.55	
EX 102	1287+89.61	TYPE 5 CURB INLET	18 RCP				24.64			
EX 103	1288+98.98	TYPE 5 CURB INLET	18 RCP	24.59			24.67			
EX 104B	1292+00.84	DITCH BOTTOM INLET	18 RCP		23.27					
EX 105	1288+99.60	MANHOLE	18 RCP	23.46		23.52				
EX 105B	1288+99.17	INLET	18 RCP		23.91					
EX 106	1290+49.04	DITCH BOTTOM INLET	4 PVC		25.29					
			18 RCP							
EX 108	1286+48.72	DITCH BOTTOM INLET	18 RCP	21.08						
EX 109	1301+36.07	TYPE 5 CURB INLET	18 RCP	29.77			29.73	33.29		
EX 110	1303+49.48	TYPE 5 CURB INLET	18 RCP	29.30	29.11			33.90		
EX 111	1305+00.38	MANHOLE	18 RCP	28.40						
			24 RCP			27.68	27.79			
EX 112	1304+99.89	MANHOLE	24 RCP	27.60						
EX 113	1307+50.04	TYPE 5 CURB INLET	24 RCP	31.30				35.30		
			19 X 30 RCP							
EX 114	1308+50.59	DITCH BOTTOM INLET	19 X 30 RCP				31.51	34.66		
EX 115	1311+00.77	TYPE 5 CURB INLET	14 X 23 RCP				31.90	35.09		
			19 X 30 RCP	31.86						
EX 116	1311+99.45	TYPE 6 CURB INLET	14 X 23 RCP	32.13			32.16	35.04		
EX 117	1305+80.07	TYPE 5 CURB INLET	24 RCP	27.84			30.28	34.49		
EX 118	1314+00.38	TYPE 5 CURB INLET	14 X 23 RCP	36.00			32.71	35.22		
EX 119	1315+33.05	TYPE 5 CURB INLET	14 X 23 RCP	32.69				35.41		
EX 120	1303+60.48	TYPE 5 CURB INLET	18 RCP				30.18	34.12		
EX 121	1306+53.34	TYPE 5 CURB INLET	18 RCP	29.27			29.33	34.89		
EX 122	1307+99.83	TYPE 5 CURB INLET	18 RCP		31.50			35.31		
EX 123	1312+00.52	TYPE 6 CURB INLET	18 RCP		31.17		31.04	34.98		
EX 124	1301+11.41	DITCH BOTTOM INLET	18 RCP				30.18	32.85		
EX 125	1312+97.61	TYPE 5 CURB INLET	18 RCP	31.96				35.25		
EX 126	1317+54.28	DITCH BOTTOM INLET	18 RCP				30.12	33.80		
EX 127	1318+31.53	DITCH BOTTOM INLET	18 RCP	30.25			30.26	36.06		
EX 128	1318+46.38	TYPE 5 CURB INLET	18 RCP	30.33			30.12	36.42		
EX 129	1321+60.74	TYPE 5 CURB INLET	18 RCP	32.14			32.14	36.85		
EX 130	1320+00.76	INLET	18 RCP		29.60	29.24		36.62		
			24 RCP				30.14			
EX 131	1324+22.71	TYPE 5 CURB INLET	18 RCP	32.60				36.62		
EX 132	1324+49.08	DITCH BOTTOM INLET	18 RCP					36.06		
EX 133	1319+98.94	TYPE 5 CURB INLET	18 RCP	29.92		29.87	31.79			
EX 134	1317+00.75	TYPE 5 CURB INLET	18 RCP	31.15	31.06			35.84		
EX 135	1318+75.42	TYPE 5 CURB INLET	18 RCP		31.21		32.24	36.18		
EX 136	1320+48.78	TYPE 5 CURB INLET	18 RCP	32.82				36.48		
EX 137	1315+88.72	TYPE 5 CURB INLET	18 RCP				32.82	35.62		
EX 138	1325+27.93	TYPE S GUTTER INLET	24 RCP							
EX 139	1327+01.44	TYPE S GUTTER INLET	24 RCP	30.23						
			30 RCP				30.17			
EX 140	1330+01.31	MANHOLE	30 RCP	29.90	28.84					
EX 140B	1330+01.22	DITCH BOTTOM INLET	30 RCP			28.00		32.12		
EX 141	1323+50.14	TYPE S GUTTER INLET	18 RCP		33.02					
EX 145	1334+98.14	INLET	18 RCP			31.64				
			24 RCP	31.73			32.51			
EX 145A	1334+99.15	ENDWALL	18 RCP							33.40
EX 149	1336+49.18	INLET	24 RCP				33.29			
			19 X 30 RCP	32.65						
EX 150	1343+14.12	TYPE 5 CURB INLET	18 RCP	36.09			36.28			
EX 151	1345+00.29	TYPE 5 CURB INLET	18 RCP	36.83			36.87			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.
4030 WEST BOY SCOUT BLVD., STE. 700
TAMPA, FLORIDA 33607
(813) 282-7275
CERTIFICATE OF AUTHORIZATION NO. 24
Richard D. Uptegraff, P.E. NO. 58789

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

EXISTING DRAINAGE STRUCTURES

SHEET NO. 30

STRUCTURE NUMBER	STATION	DESCRIPTION	SIZE (IN) / TYPE	INVERT				GRATE OR TOP EL	MES INVERT	ENDWALL INVERT
				NW	SW	NE	SE			
EX 152	1341+05.92	MITERED END SECTION	18 RCP						35.64	
EX 153	1346+98.33	TYPE 5 CURB INLET	18 RCP	37.62						
EX 154	1349+52.99	MANHOLE	18 RCP				37.96			
EX 155	1351+05.19	MANHOLE	18 RCP	37.25	36.21					
EX 156	1347+00.62	TYPE 5 CURB INLET	18 RCP		37.06					
EX 200	1349+02.42	TYPE 5 CURB INLET	14 X 23 RCP				39.26			
EX 200B	1353+50.37	TYPE S GUTTER INLET	18 RCP		38.72	38.72				
EX MES27	1284+49.96	MITERED END SECTION	18 RCP						23.97	
EX MES28	1287+50.43	MITERED END SECTION	18 RCP						24.08	
EX MES29	1290+71.38	MITERED END SECTION	19 X 30 RCP						25.82	
EX MES122	1307+99.97	MITERED END SECTION	18 RCP						29.12	
EX MES123	1311+99.81	MITERED END SECTION	18 RCP						31.08	
EX MES135	1318+77.33	MITERED END SECTION	18 RCP						31.42	
EX MES141	1323+49.03	MITERED END SECTION	18 RCP						29.43	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.
4030 WEST BOY SCOUT BLVD., STE. 700
TAMPA, FLORIDA 33607
(813) 282-7275
CERTIFICATE OF AUTHORIZATION NO. 24
Richard D. Uptegraff, P.E. NO. 58789

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

EXISTING DRAINAGE STRUCTURES

SHEET NO. 31

STRUCTURE NO.	BASELINE	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD			
			2% PROB.	50 YR. FREQ.	1% PROB.	100 YR. FREQ.								
			DISCHARGE	STAGE	DISCHARGE	STAGE	DISCHARGE	STAGE	PROB %	FREQ. YR.	DISCHARGE	STAGE	PROB %	FREQ. YR.
CD-8	CL I75	372+00	101.6	17.40	118.3	17.60					168.4	18.39		500
CD-9	CL I75	382+00	52.6	16.53	61.3	16.77					87.5	17.72		500
CD-10	CL I75	406+00	52.6	28.27	61.3	28.32					87.5	28.53		500
CD-14	CL I75	435+00	47.7	31.54	56.3	31.65					82.7	32.13		500
CD-25	BL RAMPA	228+40	52.2	32.3	56.9	32.36					96.8	33.01		500

DEFINITIONS:

DESIGN FLOOD: THE FLOOD SELECTED BY THE F.D.O.T. TO BE UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.

BASE FLOOD: THE FLOOD HAVING A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR. (100 YR. FREQUENCY)

OVERTOPPING FLOOD: THE FLOOD WHERE FLOW OCCURS (A) OVER THE HIGHWAY (B) OVER A WATERSHED DIVIDE OR (C) THRU THE EMERGENCY RELIEF STRUCTURES.

GREATEST FLOOD: THE MOST SEVERE FLOOD WHICH CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE, NORMALLY ONE WITH A 0.2% CHANCE OF BEING EXCEEDED IN ANY YEAR. (500 YR. FREQUENCY)

NOTE:

THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND AND STAGES ARE IN FEET, NGVD 1929.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.
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TAMPA, FLORIDA 33607
(813) 282-7275
CERTIFICATE OF AUTHORIZATION NO. 24
Richard D. Uptegraff, P.E. NO. 58789

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MANATEE	201032-2-52-01

FLOOD DATA SHEET

SHEET NO. 32

Best Available Copy

CONTRACT PLAN SET INCLUDES

ROADWAY PLANS
SIGNALIZATION PLANS STAGE 1
STRUCTURE PLANS

DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH GROUP OF PLANS

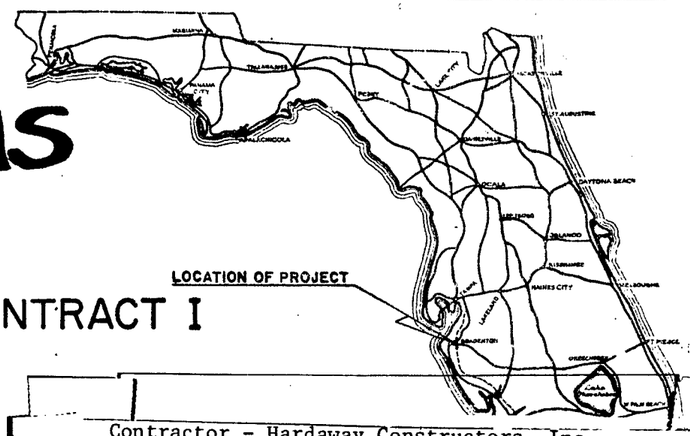
INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY MAP
2	DRAINAGE MAP
3	INTERCHANGE DRAINAGE MAP
4-7	TYPICAL SECTIONS
8	SUMMARY OF QUANTITIES
9	SUMMARY OF DRAINAGE STRUCTURES
10-14	PLAN AND PROFILE I-75
15-16	PLAN AND PROFILE ACCESS ROAD (48 TH ST)
17-20	PLAN AND PROFILES S.R.43
21-22	CROSSOVER DETAILS (S.R.43) AND PROFILES
23	ACCESS ROAD NORTH BETWEEN 56 AVE AND 60 AVE
24-26	INTERCHANGE LAYOUT
27-29	RAMP TERMINAL DETAILS
30-35	RAMP PROFILES
36-43	DRAINAGE STRUCTURES
44-46	ROADWAY SOIL SURVEY
46	CROSS SECTION PATTERN
47-102	CROSS SECTIONS
103	ELECTRICAL CONDUIT LOCATION
104-109	CLEARING AND GRUBBING
110-118	UTILITY ADJUSTMENTS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

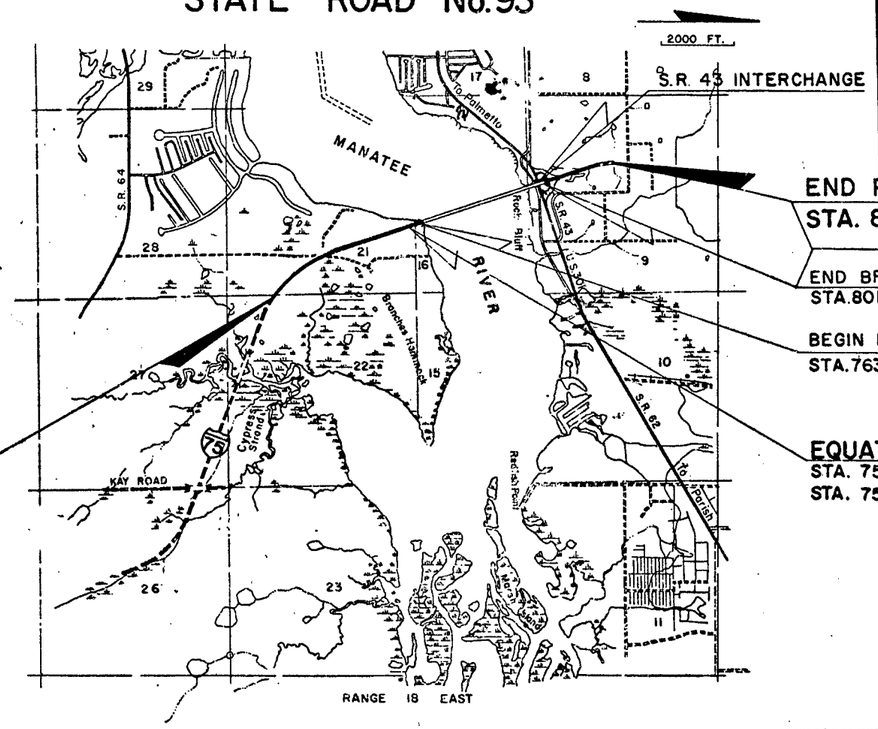
FINAL ~~PLANS OF PROPOSED~~ PLANS
STATE HIGHWAY

STATE	STATE PROJ. NO.	FISCAL YEAR	SHEET NO.
FLA.	13075 -[illegible]-414	77	1



F.A. PROJECT NO. E-ACI-75-6(29)426 CONTRACT I

MANATEE COUNTY
STATE ROAD No. 93



BEGIN PROJECT
STA. 724+00.00

END PROJECT
STA. 825+00.00
S.B. BR. NO. 130103
N.B. BR. NO. 130104

END BRIDGE
STA. 801+66.81

BEGIN BRIDGE
STA. 763+52.22

EQUATION
STA. 758+13.12 BK.
STA. 755+91.54 AH.

Contractor - Hardaway Constructors, Inc.

District Engineer - C. W. Monts-De Oca
Resident Engineer - W. N. Penny
Project Engineer - J. F. Scott
Date Work Started - December 1, 1977
Date Accepted - Conditionally accepted July 7, 1980

Note: Lighting, Signing and Pavement Markings and Signalization Stage 2 will be constructed in a future contract.

SHEET NO.	STANDARD DRAWING
	GUARDRAIL CONSTRUCTION (5 SHEETS)
	CONCRETE ENDWALLS
	U. ENDWALLS FOR PIPE CULVERTS (3 SHEETS)
	DITCH BOTTOM INLET TYPE "A"
	DITCH BOTTOM INLET TYPE "B"
	GUTTER INLET TYPE "S"
	MISCELLANEOUS DRAINAGE DETAILS (3 SHEETS)
	INLET, MANHOLE, JUNCTION BOX TYPES J&P
	FENCE LOCATION DETAILS
	FENCE, TYPE "A"
	FENCE, TYPE "B"
	EROSION CONTROL DEVICES, TEMPORARY SLOPE DRAINS
	EROSION CONTROL DEVICES, BALED HAY OR STRAW
	EMBANKMENT UTILIZATION DETAILS
	MISCELLANEOUS ROADWAY CONSTRUCTION DETAILS (2 SHEETS)
	STD. DETAILS FOR RAMP TERMINALS (4 SHEETS)
	SUPERELEVATION DETAILS
	STD. SYMBOLS FOR KEY MAPS AND PLAN SHEETS (3 SHEETS)
	TURNOUT DETAILS
	BRIDGE APPROACH EXPANSION JOINT FOR CONCRETE PAVEMENT
	CONCRETE PAVEMENT JOINTS (3 SHEETS)
	CURB, CURB AND GUTTER
	DITCH PAVEMENT AND SODDING
	MITERED END SECTION (2 SHEETS)
	STANDARD ABBREVIATIONS
	SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS (2 SHEETS)
	CONC BOX CULVERT
	CONC BOX CULVERT
	CONC BOX CULVERT
	CONC BOX CULVERT
	CONC BOX CULVERT
	CONC BOX CULVERT
	TYPE "C" SINGLE CONTROL GROUND SIGNS
	SINGLE COLUMN GROUND SIGNS
	APPROACH SLABS
	TRAFFIC CONTROLS FOR STREET TERMINATIONS

SEE SHEET NO. 2 FOR A LIST OF CONSTRUCTION NOTEBOOKS, AND OVERPASS CLEARANCES.

REVISIONS

PLANS COMPLETELY REVISED (9-26-77)

LENGTH OF PROJECT	LIN. FT.	MILES
ROADWAY	6,506.99	1.232
BRIDGES	3,814.59	0.722
NET LENGTH OF PROJECT	10,321.58	1.954
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	10,321.58	1.954

NOTE: PROJECT LENGTH IS BASED ON SURVEY STATIONING.

ATTENTION
REVISED SHEETS
IF ANY
DIRECTLY BEHIND
KEY SHEET

PLANS PREPARED BY
KUNDE, DRIVER, SPOONER AND ASSOCIATES
MIAMI, FLORIDA

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

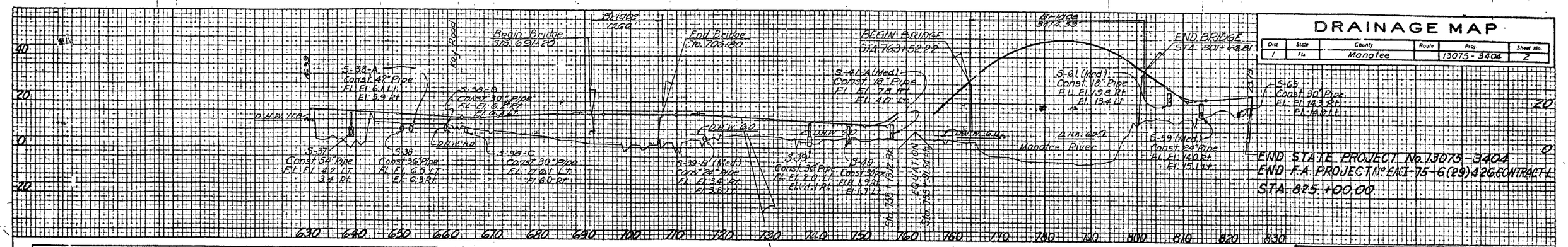
GOVERNING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION, DATED 1977.

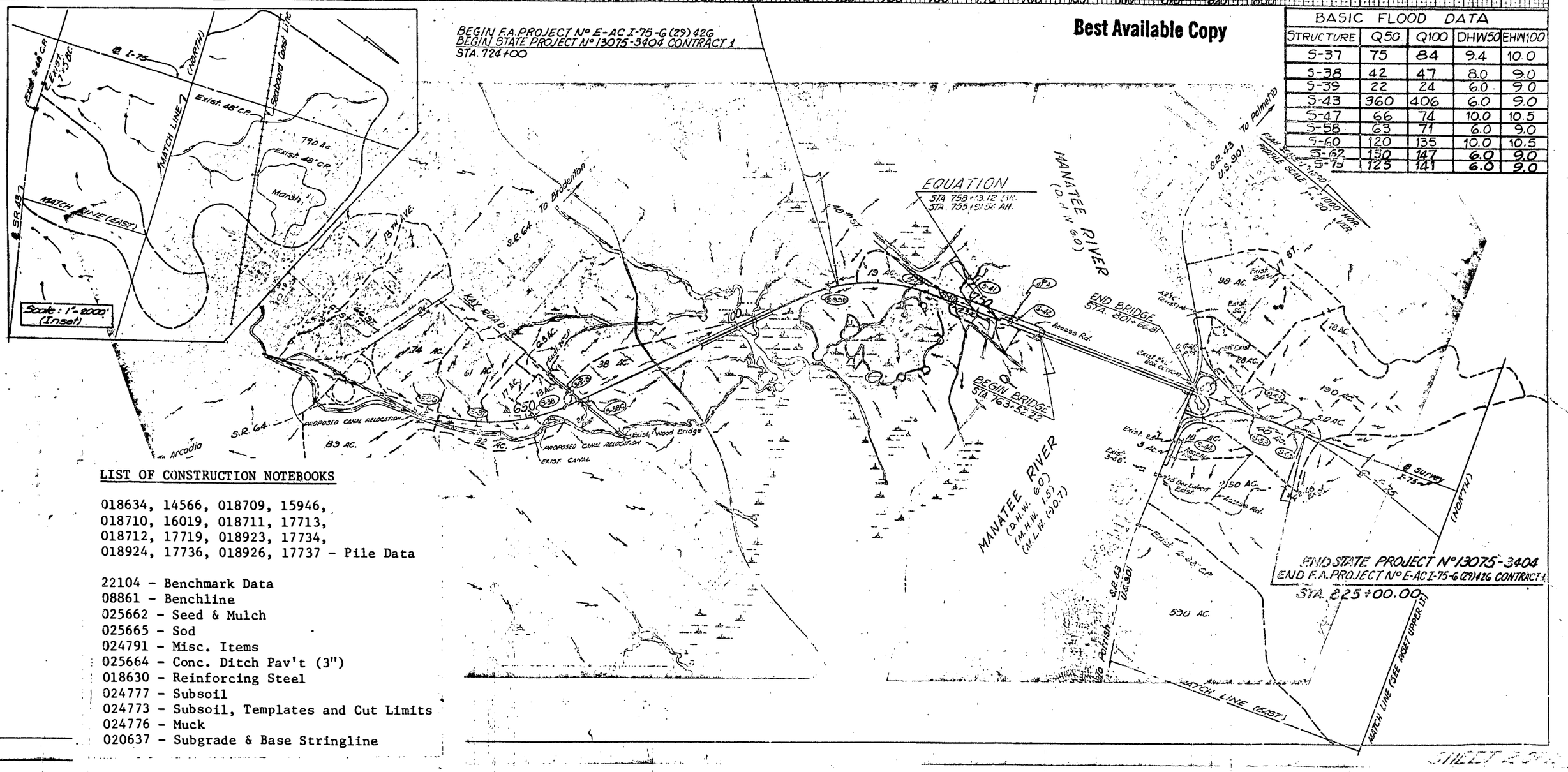
SUBMITTED BY _____
DIRECTOR OF ROAD OPERATIONS

APPROVED _____ DATE _____
DIVISION ENGINEER
FEDERAL HIGHWAY ADMINISTRATION

DRAINAGE MAP

Dist	State	County	Route	Proj	Sheet No.
1	Fla	Manatee		13075-3404	2





STATE PROJ NO	SHEET NO
13075-3404	3

INTERCHANGE DRAINAGE MAP

STA. 800+26.78 ℄ I-75 = STA. 231+84.53 ℄ PROP. S.R. 43

AT CROSSING OF I-75 AND S.R. 43

SCALE: 1" = 100'

MATCH LINE "A-A"

TRIBUTARY AREAS * COMPUTED TO STA. 820+00

STA. 127+47.09
END @ RAMP "A"

STA. 825+00.00
END PROJECT I-75

STA. 798+97.06 ℄ I-75
STA. 231+85.64
℄ EXIST. S.R. 43

STA. 801+66.81
END BRIDGE

MANATEE RIVER

MATCH LINE

MATCH LINE

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
INTELLIGENT TRANSPORTATION SYSTEM PLANS
LIGHTING PLANS
LANDSCAPE PLANS
STRUCTURE PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 201032-5-52-01

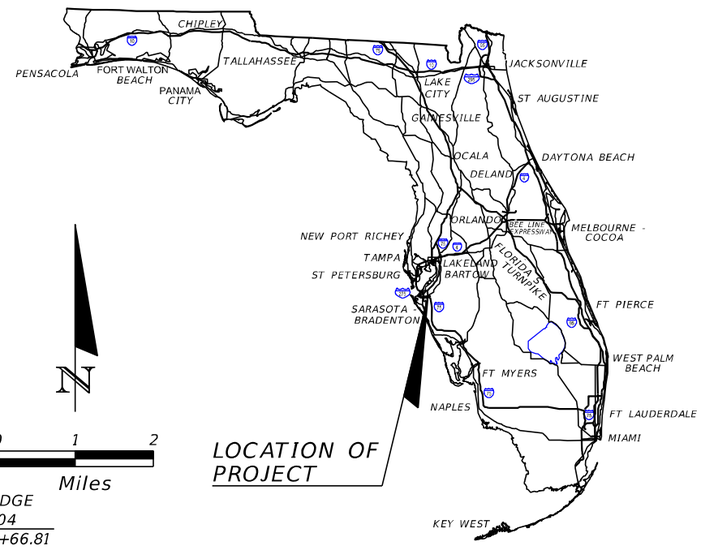
(FEDERAL FUNDS)

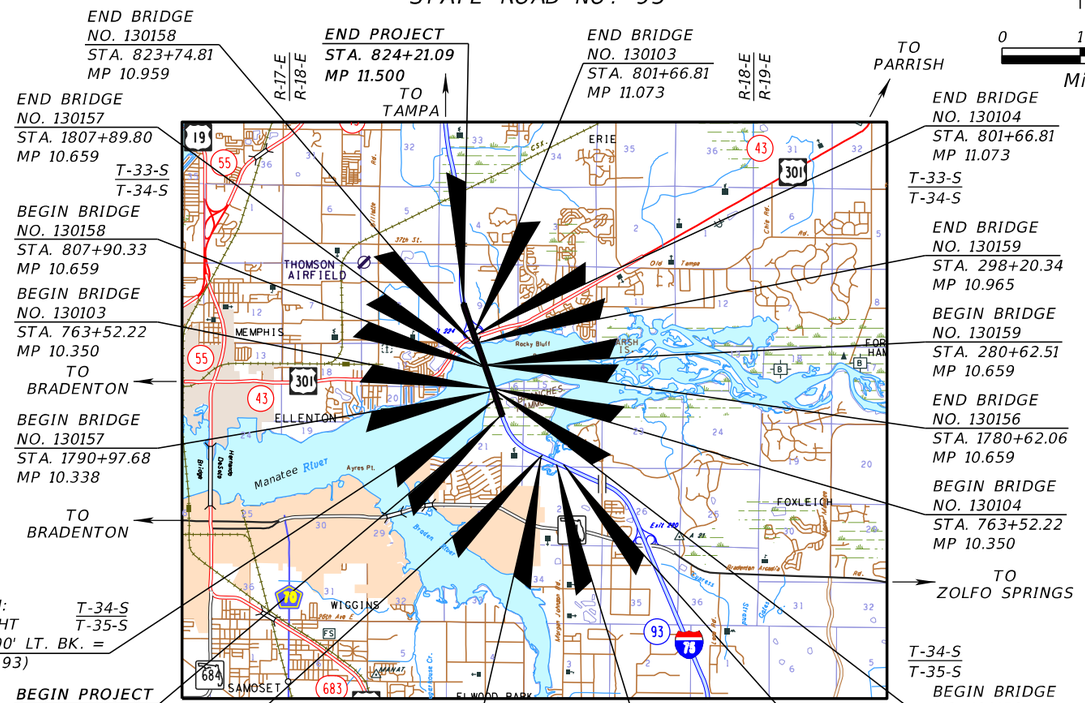
MANATEE COUNTY (13075)

STATE ROAD NO. 93

CONSTRUCTION CONTRACT NO.

INDEX OF ROADWAY PLANS





ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
KISINGER CAMPO AND ASSOCIATES CORP.
201 N. FRANKLIN STREET, SUITE 400
TAMPA, FLORIDA 33602
PHONE: (813) 871-5331
FAX: (813) 871-5135

PLANS PREPARED BY:
KISINGER CAMPO AND ASSOCIATES CORP.
CONSULTING ENGINEERS & PLANNERS
201 N. FRANKLIN STREET, SUITE 400
TAMPA, FLORIDA 33602
PHONE: (813) 871-5331
FAX: (813) 871-5135
VENDOR No 59-1677145
CERTIFICATE OF AUTHORIZATION NO. 02317
CONTRACT No C-9601

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

GOVERNING STANDARDS AND SPECIFICATIONS:

Florida Department of Transportation, 2015 Design Standards and revised Index Drawings as appended herein, and 2015 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following web site:
http://www.dot.state.fl.us/rddesign/

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
http://www.dot.state.fl.us/specificationsoffice/

REVISIONS

SWFWMD PLANS
MAY, 2018

PROJECT LENGTH BASED ON ℄ SURVEY I-75 (SR 93) & ℄ SURVEY EOP RIGHT

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	4,205.16	0.796
BRIDGES	3,814.59	0.722
NET LENGTH OF PROJECT	8,019.75	1.519
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	8,019.75	1.519

FDOT PROJECT MANAGER: DOUGLAS BURKHART, P.E.

KEY SHEET REVISIONS

DATE	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: PAUL G. FOLEY, P.E.

P.E. NO.: 40978

FISCAL YEAR	SHEET NO.
23	1

THE ENGINEER OF RECORD LISTED BELOW SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS.

PAUL G. FOLEY LICENSE No 40978 STATE OF FLORIDA PROFESSIONAL ENGINEER

Paul G Foley

Digitally signed by Paul G Foley
Date: 2018.07.26 10:18:06 -04'00'

Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Florida Certificate of Authorization No. 02317
Engineer of Record: Paul G. Foley, P.E.
P.E. No.: 40978

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
14 - 38	TYPICAL SECTION
39	CURVE DATA TABLE
40 - 44	PROJECT LAYOUT
45 - 49	REFERENCE POINTS
50	BENCHMARKS
51	PROJECT NOTES
52 - 81	ROADWAY PLAN
82 - 129	ROADWAY PROFILE
130 - 133	BACK OF SIDEWALK PROFILE
134	INTERCHANGE LAYOUT
135 - 153	RAMP TERMINAL DETAIL
154 - 157	INTERSECTION DETAIL
158 -163	SPECIAL DETAIL
164	MISCELLANEOUS DETAIL
230 - 235	CROSS SECTION PATTERN
250 - 412	CROSS SECTIONS

THE ENGINEER OF RECORD LISTED BELOW SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS.

CURT SPRUNGER LICENSE No 66524 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Curtis A Sprunger
Date: 2018.07.24 08:52:06-04'00'

Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Florida Certificate of Authorization No. 02317
Engineer of Record: Curt Sprunger, P.E.
P.E. No.:66524

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
4 - 8	DRAINAGE MAP
9	INTERCHANGE DRAINAGE MAP
10	MASTER DRAINAGE MAP
11 - 13	EXISTING DRAINAGE STRUCTURES
165 - 224	DRAINAGE STRUCTURES
225 - 227	DRAINAGE DETAILS
228 - 229	SMF DETAILS
413 - 426	SMF CROSS SECTIONS
427 - 429	STORMWATER PREVENTION PLAN

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Florida Certificate of Authorization No. 02317

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
93	MANATEE	201032-5-52-01

SIGNATURE SHEET (1)

SHEET NO. 2

$USER$ $DATE$ $TIME$ $FILE$

THE ENGINEER OF RECORD LISTED BELOW SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS.

MARC E. NOVAK
LICENSE
No 67431
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by MARC E NOVAK
Date: 2018.07.24 10:27:21 -04'00'

TIERRA INC
7351 TEMPLE TERRACE HIGHWAY, TAMPA, FL. 33637
CERTIFICATE OF AUTHORIZATION: 6486
Marc E. Novac, Ph. D., P.E.
P.E. LICENSE NUMBER 67431

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
3	SIGNATURE SHEET
236	ROADWAY SOIL SURVEY
237 - 247	POND SOIL SURVEY
248 - 249	SEDIMENT REMOVAL PLAN

INTELLIGENT TRANSPORTATION PLANS

SHEET NO.	SHEET DESCRIPTION

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Florida Certificate of Authorization No. 02317

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
93	MANATEE	201032-5-52-01

SIGNATURE SHEET (2)

SHEET NO. 3

STR. NO.	STATION ℄ SURVEY	DESIGN FLOOD 2% PROB. DISCHARGE	DESIGN FLOOD 50 YR.FREQ. STAGE	BASE FLOOD 1% PROB. DISCHARGE	BASE FLOOD 100 YR.FREQ. STAGE	OVERTOPPING FLOOD DISCHARGE	OVERTOPPING FLOOD STAGE	OVERTOPPING FLOOD PROB. %	OVERTOPPING FLOOD FREQ. YR.	GREATEST FLOOD DISCHARGE	GREATEST FLOOD STAGE	GREATEST FLOOD PROB. %	GREATEST FLOOD FREQ. YR.
S-106	630+00	125.8	11.47	146.0	11.88					206.5	13.42	0.2	500
S-107	636+50	76.9	11.69	84.7	11.84					105.9	12.48	0.2	500
S-108	649+45	42.9	11.27	46.5	11.80					55.9	12.87	0.2	500
S-111	659+60	15.2	8.76	17.0	8.94					22.1	9.56	0.2	500
S-205	738+04	7.6	6.06	8.5	6.08					11.0	6.13	0.2	500
S-314	822+00	24.0	18.74	27.3	18.87					36.9	20.25	0.2	500
127	213+51	136.8	6.86	146.0	7.13					175.1	8.18	0.2	500
141	221+71	83.1	8.33	91.2	9.08					113.1	11.48	0.2	500
167	250+92	322.2	8.81	375.4	10.82					536.0	11.36	0.2	500

NOTE: THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND (CFS) AND STAGES ARE IN FEET, NGVD 29.

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

BEGIN ℄ SURVEY EOP RIGHT
STA. 630+23.94=
STA. 630+23.94, 44.00' RT.
℄ SURVEY I-75 (SR 93)

EXIST. PROFILE - ℄ SURVEY I-75 (SR 93)

BEGIN CONSTRUCTION
STA. 609+18.00
℄ SURVEY I-75 (SR 93)

END ℄ SURVEY I-75 (SR 93)
STA. 630+23.94

EXIST. PROFILE - ℄ SURVEY EOP RIGHT

DHW 11.47' DHW 11.69' DHW 11.27' DHW 8.76' DHW 8.39'

EXIST. 72" RCP FL 1.6
EXIST. 54" RCP FL -0.5
EXIST. 36" RCP FL 6.4
EXIST. 42" RCP FL 6.0
EXIST. 30" RCP FL 6.4
EXIST. 30" RCP FL 6.1

SCALE: 1" = 500' HORIZ.
1" = 10' VERT.

69.0 AC
38.5 AC
16.0 AC
12.8 AC
BASIN 1A 3.4 AC
1.1 AC
BASIN 1B 2.9 AC
BASIN 1C 21.5 AC

SECT. 27 TWP 34S RNG. 18E
SECT. 26 TWP 34S RNG. 18E

EXIST. R/W
EXIST. CYPRESS STRAND CANAL
EXIST. L/A R/W
EXIST. LA R/W
℄ SURVEY I-75 (SR 93)
℄ SURVEY EOP RIGHT
4TH AVE. NE
KAY RD.
SR 93
HERITAGE HARBOUR
SMF 1A
SMF 1B
SMF 1C

(SEE MASTER DRAINAGE MAP FOR OFFSITE AREAS)

0 100 500
Feet

MATCHLINE STA. 680+00 ℄ SURVEY EOP RIGHT

DATUM: NGVD 29

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Florida Certificate of Authorization No. 02317
Engineer of Record: Curt Sprunger, P.E.
P.E. No.: 66524

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
93	MANATEE	201032-5-52-01

DRAINAGE MAP (1)

SHEET NO. 4

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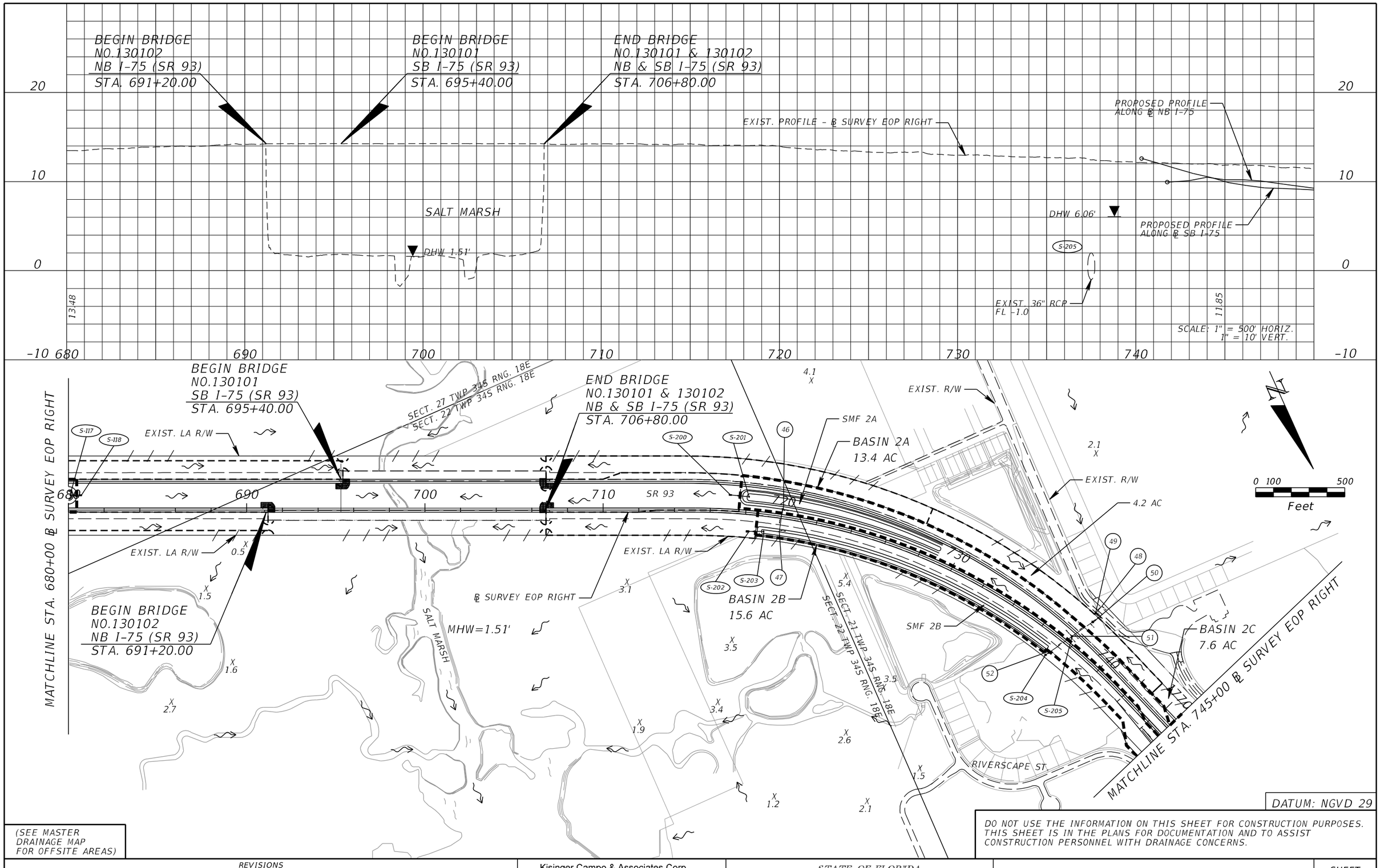

DATUM: NGVD 29

(SEE MASTER DRAINAGE MAP FOR OFFSITE AREAS)

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Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
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P.E. No.: 66524

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
93	MANATEE	201032-5-52-01

DRAINAGE MAP (2)

SHEET NO. 5

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END ℄ SURVEY EOP RIGHT
STA. 758+14.42

STATION EQUATION:
℄ SURVEY EOP RIGHT
STA. 758+14.42, 44.00' LT. BK. =
℄ SURVEY I-75 (SR 93)
STA. 755+91.54 AH.

BEGIN PROJECT
STA. 746+24.22

EXIST. PROFILE
℄ SURVEY
EOP RIGHT

BEGIN BRIDGE
N. 130157
STA. 1790+97.68
℄ SB I-75

BEGIN BRIDGE
NO. 130156
STA. 1765+14.56
℄ NB I-75

EXIST. PROFILE - ℄ SURVEY I-75 (SR 93)

PROPOSED PROFILE
ALONG ℄ NB I-75

PROPOSED PROFILE
ALONG ℄ SB I-75

BEGIN BRIDGE
NO. 130104
NO. 130103
NB & SB I-75 (SR 93)
STA. 763+52.22

END BRIDGE
NO. 130156
STA. 1780+62.06
℄ NB I-75

END BRIDGE
NO. 130157
STA. 1807+89.80
℄ SB I-75

BEGIN BRIDGE
NO. 130158
STA. 807+90.33
℄ RAMP C1

BEGIN BRIDGE
NO. 130159
STA. 280+62.51
℄ RAMP A1

END BRIDGE
NO. 130159
STA. 298+20.34
℄ RAMP A1

END BRIDGE
NO. 130158
STA. 823+74.81
℄ RAMP C1

END BRIDGE
NO. 130104
NO. 130103
NB & SB I-75 (SR 93)
STA. 801+66.81

PROPOSED PROFILE
ALONG ℄ RAMP A1

PROPOSED PROFILE
ALONG ℄ RAMP C1

MANATEE
RIVER
MHW 1.51'

PVC PVC PVI PVI 11.85 15.51 12.97 PVT PVT PVI PVI PVC PVC PVI PVI PVC PVC PVT PVT PVT PVT PVC PVC PVT PVT PVI PVI 20.86

50 30 10 -10 750 760 770 780 790 800 810

SCALE: 1" = 500' HORIZ.
1" = 20' VERT.

0 100 500
Feet

MATCHLINE STA. 745+00 ℄ SURVEY EOP RIGHT

MATCHLINE STA. 805+00 ℄ SURVEY I-75 (SR93)

STATION EQUATION:
℄SURVEY EOP RIGHT
STA. 758+14.42 44.00' LT BK. =
℄SURVEY 1-75 (SR 93)
STA. 755+91.54 AH.

MANATEE RIVER
MHW=1.51'

BEGIN BRIDGE
NO. 130157
STA. 1790+97.68
℄ SB I-75

BASIN 2C
7.6 AC

BASIN 2A

TROOPER JD
YOUNG BRIDEGE

EXIST.
LA R/W

SMF
2C

BASIN 2B

℄ SURVEY I-75 (SR 93)

END ℄ SURVEY EOP RIGHT
STA. 758+14.42

BEGIN BRIDGE
NO. 130156
STA. 1765+14.56
℄ NB I-75

BEGIN PROJECT
STA. 746+24.22

℄ SURVEY
EOP RIGHT

END BRIDGE
NO. 130156
STA. 1780+62.06
℄ NB I-75

BEGIN BRIDGE
NO. 130158
STA. 807+90.33
℄ RAMP C1

END BRIDGE
NO. 130157
STA. 1807+89.80
℄ SB I-75

END BRIDGE
NO. 130158
STA. 823+74.81
℄ RAMP C1

BASIN 3B
11.3 AC

BASIN 3C
24.8 AC

PROP. LA R/W

EXIST. LA R/W

BEGIN BRIDGE
NO. 130159
STA. 280+62.51
℄ RAMP A1

END BRIDGE
NO. 130159
STA. 298+20.34
℄ RAMP A1

BEGIN BRIDGE
NO. 130104
NO. 130103
NB & SB I-75
STA. 763+52.22

END BRIDGE
NO. 130104
NO. 130103
NB & SB I-75
STA. 801+66.81

SEE INTERCHANGE
DRAINAGE MAP

BASIN 3A
6.6 AC

119.0 AC
2.2 AC
38.0 AC
SMF 3A
12.5 X
10.3 X
10.0 X
3.9 X
2.8 X

(SEE MASTER
DRAINAGE MAP
FOR OFFSITE AREAS)

DATUM: NGVD 29

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NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Florida Certificate of Authorization No. 02317
Engineer of Record: Curt Sprunger, P.E.
P.E. No.: 66524

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
93	MANATEE	201032-5-32-01

DRAINAGE MAP (3)

SHEET NO. 6

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END PROJECT
STA. 824+21.09
℄ SURVEY I-75 (SR 93)

STATION EQUATION:
STA. 838+36.71
℄ SURVEY I-75 (SR 93) BK. =
STA. 24+00.00 AH.
℄ SURVEY I-75 (SR 93)

PROPOSED PROFILE ALONG ℄ SB I-75

EXIST. PROFILE - ℄ SURVEY I-75 (SR 93)

PROPOSED PROFILE ALONG ℄ NB I-75

PVC
PVC
PVT
PVT
PVI
PVI

S-314 DHW 18.74'

EXIST. 30" RCP
FL 14.5

117

END CONSTRUCTION
STA. 27+27.45
℄ SURVEY I-75 (SR 93)

EXIST. 9'x5'
BOX CULVERT
FL 14.5

30
20
10
0

20.86
29.28

805 810 820 830 840

SCALE: 1" = 500' HORIZ.
1" = 10' VERT.

38.0 AC

BASIN 3B

12.5
X

EXIST. LA R/W

12.1
X

206.0 AC

END PROJECT
STA. 824+21.09
℄ SURVEY I-75 (SR 93)

℄ SURVEY
I-75 (SR 93)

9.9 AC

MATCHLINE STA. 805+00 ℄ SURVEY I-75 (SR93)

SMF 3B

SMF 3C

S-305 S-307 S-306 S-310 S-311 S-312 S-313 S-308A S-335A S-338 S-337 S-335 S-336 S-332 S-334 S-333 S-309 S-308 S-339 S-339A S-316 S-315 S-317 S-314

104 106 105 108 107 109 109A 109B 109C 109D 110 111 112 113 114

1810 1820 1830 1840 1850 1860 1870 1880

210 220 230 240

27.6 AC

19.5
X

18.1
X

20.6
X

BASIN 3C
32.0 AC

15.1
X

498.0 AC

29TH ST E

STATION EQUATION:
STA. 838+36.71
℄ SURVEY I-75 (SR 93) BK. =
STA. 24+00.00
℄ SURVEY I-75 (SR 93) AH.

END CONSTRUCTION
STA. 27+27.45
℄ SURVEY I-75 (SR 93)

115 116 117 118 119 120 121

EXIST. LA R/W

SECT. 8 TWP 34 S RNG. 18 E
SECT. 9 TWP 34 S RNG. 18 E

SECT. 9 TWP 34 S RNG. 18 E
SECT. 4 TWP 34 S RNG. 18 E

SEE INTERCHANGE DRAINAGE MAP

(SEE MASTER DRAINAGE MAP FOR OFFSITE AREAS)

0 100 500
Feet

DATUM: NGVD 29

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Florida Certificate of Authorization No. 02317
Engineer of Record: Curt Sprunger, P.E.
P.E. No.: 66524

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
93	MANATEE	201032-5-52-01

DRAINAGE MAP (4)

SHEET NO. 7

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BEGIN CONSTRUCTION
STA. 205+32.22
℄ SURVEY US 301 (SR 43)

BEGIN ℄ CONST. US 301 (SR 43)
STA. 553+16.62 =
STA. 253+16.62
℄ SURVEY US 301 (SR 43)

END CONSTRUCTION
STA. 569+11.09
℄ CONST. US 301 (SR 43)

EXIST. GROUND – ℄ SURVEY US 301 (SR 43)

PVI

PROPOSED PROFILE
ALONG NB US 301

EXIST. PROFILE
℄ SURVEY US 301 (SR 43)

127 DHW 6.86'

141 DHW 8.33'

DHW 8.81'

167

186

EXIST. 5'x5'
BOX CULVERT
FL 1.7

EXIST. 48" RCP
FL 2.6

EXIST. 2-6'x6'
BOX CULVERT
FL -1.1

EXIST. 2-48" RCP
FL -1.0

9.71

8.09

SCALE: 1" = 500' HORIZ.
1" = 10' VERT.

20 10 0 -10

205 210 215 220 225 230 235 240 245 250 555 560 565 570 575

SEE INTERCHANGE
DRAINAGE MAP

℄ SURVEY I-75 (SR 93)

EXIST. LA R/W

SMF 3B
206.0 AC

SMF 3C

BASIN 3C
32.0 AC

26.7 AC

498.0 AC

326.0 AC

38.0 AC

119.0 AC

2.2 AC

SMF 3A

EXIST. R/W

SECT. 8 TWP 34S RNG. 18E
SECT. 17 TWP 34S RNG. 18E
SECT. 9 TWP 34S RNG. 18E
SECT. 16 TWP 34S RNG. 18E
SECT. 10 TWP 34S RNG. 18E

US 301

US 30

EXIST. LA R/W
PROP. LA R/W

TROOPER J.D YOUNG BRIDGE

MANATEE RIVER
MHW= 1.5'

0 100 500
Feet

END CONSTRUCTION
STA. 569+11.09
℄ CONST. US 301
(SR 43)

BEGIN ℄ CONST. US 301 (SR 43)
STA. 553+16.62 =
STA. 253+16.62
℄ SURVEY US 301 (SR 43)

BEGIN CONSTRUCTION
STA. 205+32.22
℄ SURVEY US 301 (SR 43)

(SEE MASTER
DRAINAGE MAP
FOR OFFSITE AREAS)

DATUM: NGVD 29

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Florida Certificate of Authorization No. 02317
Engineer of Record: Curt Sprunger, P.E.
P.E. No.: 66524

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
93	MANATEE	201032-5-52-01

DRAINAGE MAP (5)

SHEET NO. 8

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EXIST. PROFILE - ℄ SURVEY US 301 (SR 43)

PROPOSED PROFILE ALONG NB US 301

PVI

PVI

PVI

S-356 S-359 S-361 S-362 S-363

141 DHW 8.33'

EXIST. 48" RCP
FL 2.6

48" PIPE
FL 2.9

18" PIPE
FL 5.7

18" PIPE
FL 6.8

18" PIPE
FL 5.3
FL 5.6

18" PIPE
FL 5.8

18" PIPE
FL 6.0

SCALE: 1" = 200' HORIZ.
1" = 5' VERT.

10.00

10.49

15 10 5 0

220 225 230 235 240 245

(SEE MASTER DRAINAGE MAP FOR OFFSITE AREAS)

203.0 AC

38.0 AC

498.0 AC

SMF 3B

SMF 3C

SMF 3A

12.9 X

9.8 X

12.5 X

13.8 X

15.0 X

10.5 X

10.3 X

8.9 X

8.5 X

EXIST. LA R/W

EXIST. R/W

PROP. LA R/W

℄ SURVEY
I-75 (SR 93)

SR 93

℄ SURVEY US 301 (SR 43)

US 301 (SR 43)

19TH ST. E.

SECT. 9 TWP. 34 S RNG. 18 E

SECT. 16 TWP. 34 S RNG. 18 E

1835 1805 1830 1800 1825

205 405 200 800 300 600

0 50 200
Feet

DATUM: NGVD 29

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
93	MANATEE	201032-5-52-01

INTERCHANGE DRAINAGE MAP

SHEET NO. 9

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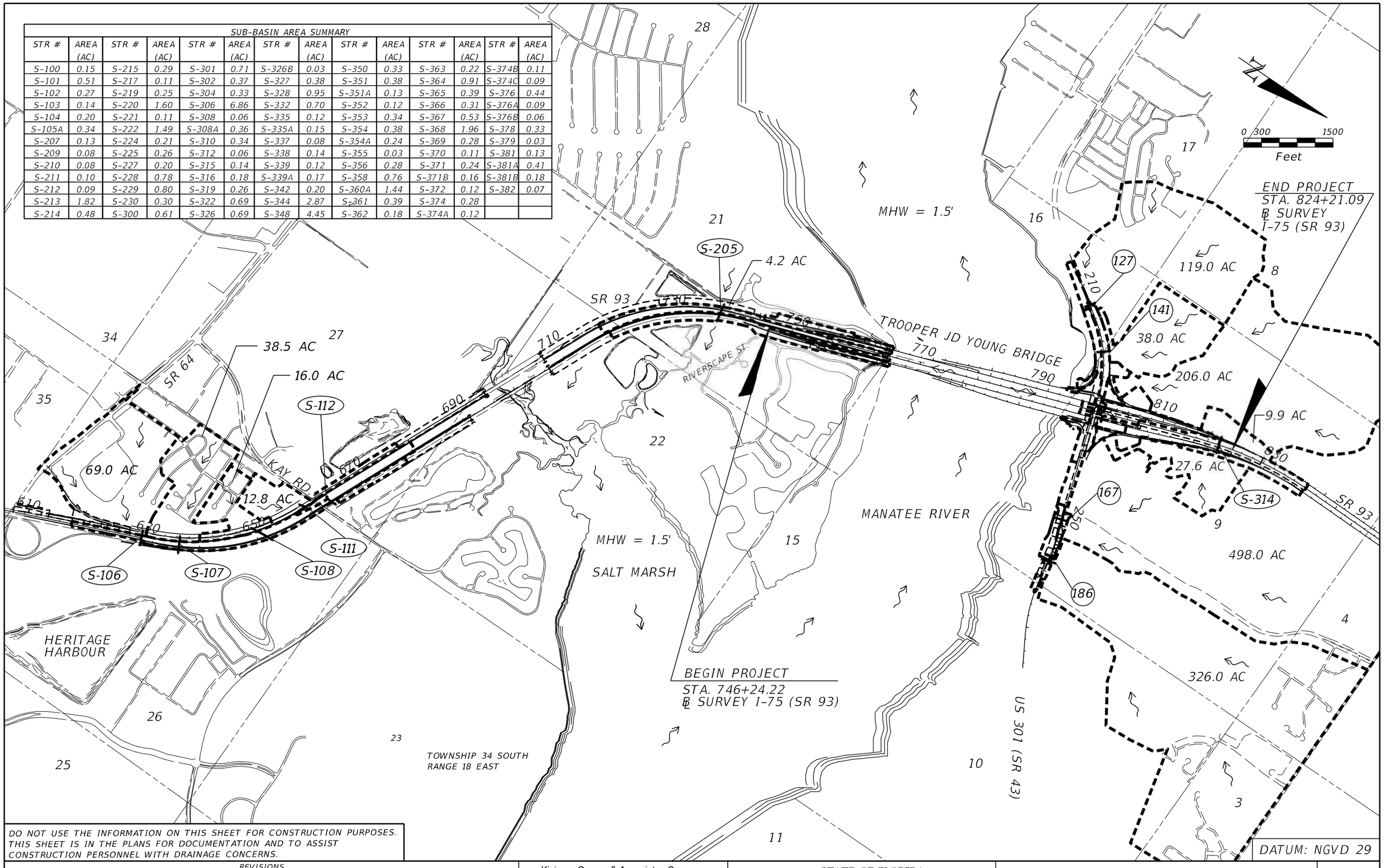
SUB-BASIN AREA SUMMARY													
STR #	AREA (AC)	STR #	AREA (AC)	STR #	AREA (AC)	STR #	AREA (AC)	STR #	AREA (AC)	STR #	AREA (AC)	STR #	AREA (AC)
S-100	0.15	S-215	0.29	S-301	0.71	S-326B	0.03	S-350	0.33	S-363	0.22	S-374B	0.11
S-101	0.51	S-217	0.11	S-302	0.37	S-327	0.38	S-351	0.38	S-364	0.91	S-374C	0.09
S-102	0.27	S-219	0.25	S-304	0.33	S-328	0.95	S-351A	0.13	S-365	0.39	S-376	0.44
S-103	0.14	S-220	1.60	S-306	6.86	S-332	0.70	S-352	0.12	S-366	0.31	S-376A	0.09
S-104	0.20	S-221	0.11	S-308	0.06	S-335	0.12	S-353	0.34	S-367	0.53	S-376B	0.06
S-105A	0.34	S-222	1.49	S-308A	0.36	S-335A	0.15	S-354	0.38	S-368	1.96	S-378	0.33
S-207	0.13	S-224	0.21	S-310	0.34	S-337	0.08	S-354A	0.24	S-369	0.28	S-379	0.03
S-209	0.08	S-225	0.26	S-312	0.06	S-338	0.14	S-355	0.03	S-370	0.11	S-381	0.13
S-210	0.08	S-227	0.20	S-315	0.14	S-339	0.12	S-356	0.28	S-371	0.24	S-381A	0.41
S-211	0.10	S-228	0.78	S-316	0.18	S-339A	0.17	S-358	0.76	S-371B	0.16	S-381B	0.18
S-212	0.09	S-229	0.80	S-319	0.26	S-342	0.20	S-360A	1.44	S-372	0.12	S-382	0.07
S-213	1.82	S-230	0.30	S-322	0.69	S-344	2.87	S-361	0.39	S-374	0.28		
S-214	0.48	S-300	0.61	S-326	0.69	S-348	4.45	S-362	0.18	S-374A	0.12		



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REVISIONS			
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
93	MANATEE	201032-5-52-01

MASTER DRAINAGE MAP

SHEET NO. 10

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NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

(1)
INLET
GRATE EL. 20.63
18" RCP FL E 15.50
24" RCP FL W 15.00

(1A)
INLET
GRATE EL. 20.75
18" RCP FL 15.60

(2)
INLET
GRATE EL. 22.13
18" RCP FL 17.80

(2A)
INLET
GRATE EL. 22.35
18" RCP FL E 17.60
18" RCP FL W 17.60

(3)
INLET
GRATE EL. 22.57
18" RCP FL E 17.40
18" RCP FL W 17.40

(3A)
INLET
GRATE EL. 22.78
18" RCP FL E 17.20
18" RCP FL W 17.20

(3B)
INLET
GRATE EL. 23.00
18" RCP FL E 17.00
18" RCP FL W 17.00

(4)
INLET
GRATE EL. 21.14
18" RCP FL 16.90

(4A)
INLET
GRATE EL. 20.79
18" RCP FL E 16.50
18" RCP FL W 16.50

(5)
INLET
GRATE EL. 44.58
18" RCP FL 39.50

(5A)
INLET
GRATE EL. 43.57
18" RCP FL E 39.20
18" RCP FL W 39.20

(5B)
INLET
GRATE EL. 42.27
18" RCP FL W 38.90
18" RCP FL N 38.90

(6)
INLET
GRATE EL. 24.89
18" RCP FL 19.40

(6A)
MES
36" RCP FL 7.00

(6B)
INLET
GRATE EL. 29.01
18" RCP FL W 19.00
36" RCP FL E 7.15
36" RCP FL S 7.15

(6C)
INLET
GRATE EL. 20.80
36" RCP FL N 7.25
36" RCP FL E 7.25

(6D)
INLET
GRATE EL. 25.55
36" RCP FL N 7.45
36" RCP FL S 7.45
18" RCP FL W 21.30

(6E)
INLET
GRATE EL. 27.20
30" RCP FL N 8.20
36" RCP FL S 7.70

(6F)
MES
48" RCP FL 2.80

(7)
INLET
GRATE EL. 43.93
18" RCP FL 41.00

(7A)
INLET
GRATE EL. 41.79
18" RCP FL N 36.30
18" RCP FL S 38.70

(8)
INLET
GRATE EL. 38.13
18" RCP FL 33.60

(8A)
INLET
GRATE EL. 38.90
18" RCP FL N 31.00
18" RCP FL W 33.50

(9)
INLET
GRATE EL. 30.90
24" RCP FL N 13.00
18" RCP FL S 28.10
18" RCP FL E 28.10

(9A)
INLET
GRATE EL. 40.40
18" RCP FL W 34.90
18" RCP FL S 34.90

(10)
MES
36" RCP FL 7.50

(10A)
MANHOLE
TOP EL. 16.35
36" RCP FL N 9.70
24" RCP FL E 11.30
36" RCP FL S 9.70

(11)
MES
2-48" RCP FL 5.50

(11A)
MES
2-48" RCP FL 5.50

(12)
INLET
GRATE EL. 25.35
18" RCP FL 11.25

(12A)
MES
18" RCP FL 10.25

(13)
INLET
GRATE EL. 28.15
30" RCP FL N 8.45
30" RCP FL S 8.45
18" RCP FL E 23.45

(13A)
INLET
GRATE EL. 32.32
18" RCP FL N 23.60
18" RCP FL W 23.60

(13B)
INLET
GRATE EL. 29.39
18" RCP FL 23.90

(14)
INLET
GRATE EL. 25.50
24" RCP FL N 9.40
30" RCP FL S 8.90

(14A)
INLET
GRATE EL. 19.50
24" RCP FL N 10.50
24" RCP FL S 10.50
18" RCP FL E 14.80

(14B)
INLET
GRATE EL. 19.42
18" RCP FL 14.90

(15)
INLET
GRATE EL. 16.10
24" RCP FL S 10.90
18" RCP FL E 11.40

(15A)
INLET
GRATE EL. 16.00
18" RCP FL 11.50

(16)
INLET
GRATE EL. 15.00
48" RCP FL 8.60

(16A)
MES
48" RCP FL 8.40

(17)
INLET
GRATE EL. 19.35
18" RCP FL N 13.90
18" RCP FL S 13.90

(17A)
INLET
GRATE EL. 20.34
18" RCP FL 14.30

(18)
INLET
GRATE EL. 16.40
36" RCP FL N 9.90
36" RCP FL S 9.90
15" RCP FL E 12.50

(18A)
INLET
GRATE EL. 34.27
15" CMP FL W 29.37
18" RCP FL E 29.49

(18B)
INLET
GRATE EL. 32.75
18" RCP FL 30.43

(19)
INLET
GRATE EL. 29.99
18" RCP FL 25.50

(19A)
INLET
GRATE EL. 27.57
18" RCP FL S 24.50
18" RCP FL W 24.50

(20)
INLET
GRATE EL. 20.90
30" RCP FL N 10.10
36" RCP FL S 10.10
18" RCP FL E 16.00
18" RCP FL W 16.00

(21)
INLET
GRATE EL. 20.78
18" RCP FL 16.20

(22)
INLET
GRATE EL. 17.63
18" RCP FL 13.10

(23)
INLET
GRATE EL. 17.90
24" RCP FL N 10.50
30" RCP FL S 10.50
18" RCP FL W 13.00

(24)
INLET
GRATE EL. 17.35
24" RCP FL N 10.70
24" RCP FL S 10.70

(25)
MANHOLE
TOP EL. 17.20
24" RCP FL S 10.90
18" RCP FL W 10.90

(26)
INLET
GRATE EL. 15.52
18" RCP FL 11.00

(27)
INLET
GRATE EL. 14.76
18" RCP FL 10.25

(27A)
INLET
GRATE EL. 14.90
18" RCP FL N 10.15
18" RCP FL E 10.15

(28)
INLET
GRATE EL. 14.47
18" RCP FL 9.90

(28A)
INLET
GRATE EL. 14.40
24" RCP FL N 9.30
18" RCP FL S 9.90
18" RCP FL E 9.80

(29)
ENDWALL
72" RCP FL 0.68

(29A)
MANHOLE
TOP EL. 17.20
24" RCP FL S 9.00
72" RCP FL E 0.87
72" RCP FL W 0.87

(29B)
ENDWALL
72" RCP FL 1.40

(29C)
INLET
GRATE EL. 12.84
72" RCP FL W 1.63
72" RCP FL E 1.63

(30)
INLET
GRATE EL. 13.16
18" RCP FL 7.90

(30A)
INLET
GRATE EL. 12.58
24" RCP FL N 6.90
18" RCP FL S 7.40

(30B)
ENDWALL
54" RCP FL -0.68

(30C)
INLET
GRATE EL. 11.77
24" RCP FL S 5.40
24" RCP FL W UNKNOW

(30D)
MES
24" RCP FL UNKNOW

(31)
INLET
GRATE EL. 11.95
54" RCP FL E -0.51
54" RCP FL W -0.51

(31A)
INLET
GRATE EL. 12.07
24" RCP FL N 5.00
24" RCP FL S 5.00
54" EXIST. FL W -0.66
54" EXIST. FL E -0.65

(32)
ENDWALL
54" RCP FL -1.19

(33)
ENDWALL
36" RCP FL 2.56

(34)
ENDWALL
36" RCP FL 6.41

(35)
ENDWALL
36" RCP FL 6.23

(36)
ENDWALL
42" RCP FL 6.04

(37)
ENDWALL
42" RCP FL 5.89

(38)
ENDPIPE
30" DIP FL 5.60

(39)
ENDPIPE
30" DIP FL 5.21

(40)
ENDPIPE
30" DIP FL 5.18

(41)
ENDPIPE
30" DIP FL 5.70

(42)
ENDWALL
30" RCP FL 6.45

(43)
ENDWALL
30" RCP FL 6.37

(44)
ENDWALL
30" RCP FL 6.27

(45)
ENDWALL
30" RCP 5.82

(46)
ENDWALL
24" RCP FL 3.86

(47)
ENDWALL
24" RCP FL 3.43

(47B)
MANHOLE
TOP EL. 6.30
38" X 60" ERCP FL E. 2.64
38" X 60" ERCP FL W. 2.64

(47C)
INLET
GRATE EL. 2.25'
FL SE -3.38

(48)
ENDPIPE
15" RCP FL 1.78

(49)
MANHOLE
TOP EL. 5.58
15" RCP FL 1.47

(50)
ENDWALL
36" RCP FL 1.71

(51)
INLET
GRATE EL. 6.05
36" RCP FL W 1.27
36" RCP FL E -0.74

(52)
ENDWALL
36" RCP FL -1.51

(53)
ENDPIPE
15" RCP FL 2.80

(54)
MANHOLE
TOP EL. 7.20
15" RCP FL 3.11

(55)
ENDPIPE
15" RCP FL 2.95

(56)
MANHOLE
TOP EL. 7.30
15" RCP FL 2.84

(57)
MANHOLE
TOP EL 8.04
36" RCP FL NW 0.64
36" RCP FL E 0.77

(57A)
MANHOLE
TOP EL. 5.50
36" RCP FL E -1.70
38" X 60" ERCP FL W -2.70

(58)
ENDWALL
36" RCP FL 0.85

(59)
ENDWALL
30" RCP FL 1.52

(60)
INLET
GRATE EL. 6.13
30" RCP FL W 1.84
30" RCP FL E 1.84

(61)
ENDWALL
30" RCP FL 1.90

(62)
MANHOLE
TOP EL. 5.54
30" RCP FL 1.53

(63)
MANHOLE
TOP EL. 5.61
30" RCP FL 1.43

(64)
MANHOLE
TOP EL. 6.16
24" RCP FL N 0.39
24" RCP FL E 0.41

* DATA FROM EXISTING PLANS

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Engineer of Record: Curt Sprunger, P.E.
P.E. No.: 66524

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
93	MANATEE	201032-5-52-01

EXISTING DRAINAGE STRUCTURES (1)

SHEET NO. 11

65
ENDPIPE
24" RCP FL 0.36

66
MANHOLE
TOP EL. 6.11
24" RCP FL E. 1.86
24" RCP FL W. 1.85

67
ENDPIPE
24" RCP FL 1.89

68
ENDPIPE
15" RCP FL 2.13

69
MANHOLE
TOP EL. 7.15
15" RCP FL 3.55

70
ENDPIPE
15" RCP FL 1.70

71
MANHOLE
TOP EL. 7.21
15" RCP FL 2.97

72
U-TYPE ENDWALL
18" RCP FL 4.01

73
INLET
GRATE EL. 10.76
18" RCP FL W 7.89

74
ENDPIPE
24" RCP FL 1.81

75
ENDWALL
24" RCP FL 3.72

76
U-TYPE ENDWALL
15" CMP FL 3.79

77
INLET
GRATE EL. 22.23
15" CMP FL 17.65

78
ENDPIPE
15" RCP FL 2.75

79
MANHOLE
TOP EL. 6.93
15" RCP FL 2.87

80
INLET
GRATE EL. 22.23
15" CMP FL E 17.54

81
U-TYPE ENDWALL
15" CMP FL 5.05

82
MANHOLE
TOP EL. 6.35
30" RCP FL E 0.41
30" RCP FL N 0.52

83
MANHOLE
TOP EL. 6.12
30" RCP FL S 0.62
24" RCP FL N 0.80
15" RCP FL E 1.92

84
ENDPIPE
15" RCP FL 2.15

85
MANHOLE
TOP EL. 6.85
24" RCP FL SW 1.07
24" RCP FL NW 1.14
15" RCP FL NE 1.70

86
INLET
GRATE EL. UNKNOWN
24" RCP FL 1.29

87
MANHOLE
TOP EL. 6.13
24" RCP FL SW 1.26
24" RCP FL NW 2.65
24" RCP FL NE 1.30

88
ENDWALL
24" RCP FL 2.61

89
ENDWALL
10'X 3' CBC FL 3.83

90
INLET
GRATE EL. 9.20
10' X 3' CBC FL N&S 4.21

91
ENDWALL
10' X 3' CBC FL 5.86

92
ENDWALL
48" RCP FL 4.61

93
ENDWALL
48" RCP FL 4.79

94
U-TYPE ENDWALL
15" CMP FL 12.70

95
INLET
GRATE EL. 30.61
15" CMP FL 27.69

96
U-TYPE ENDWALL
15" CMP FL 11.66

97
INLET
GRATE EL. 22.45
15" CMP FL 19.34

98
U-TYPE ENDWALL
15" CMP FL 11.14

99
INLET
GRATE EL. 16.49
15" CMP FL 13.13

100
INLET
GRATE EL. 30.56
15" CMP FL 27.53

101
U-TYPE ENDWALL
15" CMP FL 12.70

102
U-TYPE ENDWALL
15" CMP FL 12.95

103
INLET
GRATE EL. 21.88
15" CMP FL 18.78

104
U-TYPE ENDWALL
15" CMP FL 13.52

105
INLET
GRATE EL. 22.55
15" CMP FL 19.87

106
INLET
GRATE EL. 18.38
24" RCP 15.02

107
U-TYPE ENDWALL
24" RCP FL 13.88

108
MES
30" RCP FL 9.76

109
ENDPIPE
24" RCP FL 10.61

109A
MANHOLE
TOP EL. 16.42
24" RCP FL E 10.33
18" RCP FL N 9.97
30" RCP FL S 9.84

109B
MANHOLE
TOP EL. 16.44
18" RCP FL N 10.19
18" RCP FL S 10.09

109C
INLET
GRATE EL. 14.82
15" CMP FL N 10.29
18" RCP FL S 10.51

109D
MES
15" CMP FL 11.06

110
ENDWALL
30" RCP FL 14.79

111
INLET
GRATE EL. 19.69
30" RCP FL W 14.54
30" RCP FL E 14.53

112
U-TYPE ENDWALL
30" RCP FL 13.97

113
INLET
GRATE EL. 21.66
18" RCP 18.86

114
FLARED END SECTION
18" RCP FL 18.56

115
FLARED END SECTION
24" RCP FL 18.00

116
FLARED END SECTION
24" RCP FL 16.96

117
ENDWALL
9' X 5' CBC FL 14.64

118
INLET
GRATE EL. 24.81
9' X 5' CBC FL 14.47

119
ENDWALL
9' X 5' CBC FL 14.89

120
ENDWALL
60" RCP FL 14.26

121
ENDPIPE
60" RCP FL 14.38

121A
ENDWALL
4' X 3' CBC FL 6.37

121B
U-TYPE ENDWALL
24" RCP FL 7.79

121C
INLET
GRATE EL. 13.32
4' X 3' CBC FL 6.37

121D
ENDWALL
4' X 3' CBC FL 6.36

122
ENDWALL
24" RCP FL 5.51

123
ENDWALL
24" RCP FL 5.41

124
ENDWALL
6' X 4' CBC FL 1.55

125
ENDWALL
5' X 5' CBC FL 1.62

126
ENDWALL
6' X 4' CBC FL 1.51

127
ENDWALL
5' X 5' CBC FL 1.83

128
ENDWALL
5' X 5' CBC FL 1.99

129
ENDWALL
5' X 5' CBC FL 2.17

130
ENDPIPE
8" PVC FL 9.14

131
ENDPIPE
12" PVC FL 8.38

132
ENDPIPE
24" RCP FL 3.79

133
ENDWALL
24" RCP FL 3.73

134
INLET
GRATE EL. 10.59
12" PVC FL NE 8.44
12" PVC FL SW 8.41
8" PVC FL NW 8.47

134A
ENDPIPE
12" PVC FL 8.25

135
ENDPIPE
12" PVC FL 8.10

136
ENDPIPE
48" RCP FL 0.27

137
U-TYPE ENDWALL
18" RCP FL 5.43

138
INLET
GRATE EL. 10.43
18" RCP FL 4.75

139
MANHOLE
TOP EL. 13.24
18" RCP FL E 3.91
18" RCP FL W 4.72

140
MANHOLE
TOP EL. 12.59
48" RCP FL NW 3.24
18" RCP FL SW 3.04
48" RCP FL SE 2.59

141
ENDWALL
48" RCP FL 3.43

142
U-TYPE ENDWALL
36" RCP FL 8.83

143
U-TYPE ENDWALL
36" RCP FL 9.53

144
INLET
GRATE EL. 12.18
18" RCP FL 9.80

145
U-TYPE ENDWALL
18" RCP FL 10.08

146
U-TYPE ENDWALL
18" RCP FL 6.10

147
INLET
GRATE EL. 8.86
18" RCP FL 6.80

148
ENDWALL
18" RCP FL 9.32

149
ENDPIPE
18" RCP FL 8.94

150
INLET
GRATE EL. 8.66
18" RCP FL E 5.63
4" PVC FL. W 6.95
4" PVC FL. W 6.94

151
INLET
GRATE EL. 7.96
18" RCP FL NE 5.64
18" RCP FL W 5.64

152
U-TYPE ENDWALL
18" RCP FL 5.46

153
ENDPIPE
18" RCP FL 7.93

154
ENDPIPE
18" RCP 7.75

155
MES
4" PVC FL 6.05

156
ENDWALL
36" RCP FL 4.28

157
ENDPIPE
36" RCP FL 4.04

158
INLET
GRATE EL. 8.72
18" RCP FL 5.03

159
INLET
GRATE EL. 7.80
18" RCP FL N 4.94
24" RCP FL S 4.83

* DATA FROM EXISTING PLANS

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Florida Certificate of Authorization No. 02317
Engineer of Record: Curt Sprunger, P.E.
P.E. No.: 66524

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
93	MANATEE	201032-5-52-01

EXISTING DRAINAGE STRUCTURES (2)

SHEET NO. 12

(160)

MANHOLE
TOP EL. 10.16
24" RCP FL 5.05
19" X 30" RCP FL E 4.98

(160A)

MANHOLE
TOP EL. 9.41
19" X 30" RCP FL W 4.64
19" X 30" RCP FL S 4.64

(160B)

MANHOLE
TOP EL. 10.25
19" X 30" RCP FL N 4.46
19" X 30" RCP FL S 4.45

(160C)

MANHOLE
TOP EL. 10.25
19" X 30" RCP FL N 4.24
19" X 30" RCP FL W 4.28

(161)

INLET
GRATE EL. 5.84
14" X 23" ERCP FL 2.81

(162)

ENDPIPE
14" X 23" ERCP FL 2.57

(163)

MES
18" CMP FL 6.58

(164)

MES
18" CMP FL 5.66

(165)

ENDWALL
6' X 6' CBC FL -1.22 (E)
6' X 6' CBC FL -1.24 (W)

(166)

INLET
GRATE EL. 5.36
6' X 6' CBC FL -1.34

(167)

ENDWALL
6' X 6' CBC FL -1.05 (E)
6' X 6' CBC FL -1.05 (W)

(168)

MES
42" RCP FL 3.66

(169)

MES
42" RCP FL 1.08

(170)

CURB INLET
TOP EL. 10.59
18" RCP FL E 5.91
18" RCP FL N 1.23
ENDWALL FL 1.14

(171)

CURB INLET
TOP EL. 11.20
18" RCP FL W 6.10
14" X 23" ERCP FL E 6.08

(172)

CURB INLET
GRATE EL. 11.46
14" X 23" ERCP FL W 6.35
14" X 23" ERCP FL E 6.39

(173)

CURB INLET
GRATE EL. 11.62
14" X 23" ERCP FL 6.66

(174)

INLET
GRATE EL. 9.50
18" RCP FL 6.10

(175)

CURB INLET
GRATE EL. 8.86
18" RCP FL N 5.08
24" RCP FL E 5.01

(176)

MES
18" RCP FL 5.89

(177)

MES
18" RCP FL 6.17

(177A)

CURB INLET
GRATE EL. 9.38
24" RCP FL W 4.65
30" RCP FL E 4.53

(178)

CURB INLET
GRATE EL. 9.34
30" RCP FL W 4.32
30" RCP FL E 4.26

(179)

CURB INLET
GRATE EL. 9.10
18" RCP FL N 5.41
30" RCP FL W 3.87
30" RCP FL E 3.82

(180)

INLET
GRATE EL. 8.99
18" RCP FL S 5.76
18" RCP FL N 5.81

(181)

CURB INLET
GRATE EL. 9.79
18" RCP FL S 6.19
18" RCP FL E 6.18

(182)

INLET
GRATE EL. 9.20
18" RCP FL 7.06

(183)

MANHOLE
TOP EL. 11.91
30" RCP FL W 3.20
30" RCP FL E 3.14
18" RCP FL N 5.80

(184)

INLET
GRATE EL. 9.64
18" RCP FL 6.70

* (185)

ENDWALL
2-48" RCP FL -1.00

* (185A)

MANHOLE
TOP EL. 12.11
2-48" RCP FL S -1.00
2-48" RCP FL N UNKNOWN

(186)

ENDWALL
2- 48" RCP FL 0.03

(186A)

MANHOLE
TOP EL. 7.98
36" RCP FL 1.45

(187)

MES
18" RCP FL 0.62

(188)

ENDPIPE
18" RCP FL 0.66

(189)

MANHOLE
TOP EL. 12.64
30" RCP FL 2.61
* 18" RCP FL 2.71

(190)

MANHOLE
CONFLICT STRUCTURE
TOP EL. 11.77
* 18" RCP FL N 5.53
18" RCP FL S 2.73

(191)

CURB INLET
GRATE EL. 8.86
18" RCP 5.78

(192)

MANHOLE
TOP EL. 9.62
36" RCP FL W 5.08
36" RCP FL E 5.18
18" RCP FL N 5.56

* (192A)

ENDWALL
18" RCP FL 5.90

(193)

MANHOLE
TOP EL. 9.03
36" RCP FL 3.05

(194)

ENDWALL
7' X 4' CBC FL 6.19

(195)

U-TYPE ENDWALL
24" RCP FL 9.36

(196)

U-TYPE ENDWALL
24" RCP FL 9.15

(197)

ENDWALL
7' X 4' CBC FL 6.12

(198)

ENDPIPE
15" DIP FL 9.38

(199)

ENDPIPE
15" DIP FL 9.44

* (200)

CURB INLET
EOP EL. 8.38
18" RCP FL 2.34

* (201)

INLET TYPE F
GRATE EL. 8.51
18" RCP FL 2.23

* (202)

MANHOLE
CONFLICT STRUCTURE
TOP EL. 10.83
18" RCP FL N 1.79
18" RCP FL S 1.76

* (203)

MANHOLE
TOP EL. 11.66
30" RCP FL W 2.12
36" RCP FL E 1.62
18" RCP FL N 2.12

* (204)

MANHOLE
TOP EL. 11.09
36" RCP FL W 1.38
42" RCP FL E -0.59
54" RCP FL S -1.21

* (205)

ENDWALL
54" RCP FL -1.63

* (206)

MANHOLE
TOP EL. 9.26
36" RCP FL W 3.23
30" RCP FL E 3.73
18" RCP FL N 5.10

* (207)

ENDWALL
18" RCP FL 5.20

* (208)

CURB INLET
EOP EL. 7.76
18" RCP FL 2.63

(209)

MES
4" PVC FL 7.94

* DATA FROM EXISTING PLANS

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS			
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Kisinger Campo & Associates Corp.
201 N. Franklin Street, Suite 400
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Florida Certificate of Authorization No. 02317
Engineer of Record: Curt Sprunger, P.E.
P.E. No.: 66524

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
93	MANATEE	201032-5-52-01

EXISTING DRAINAGE STRUCTURES (3)

SHEET NO. 13

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

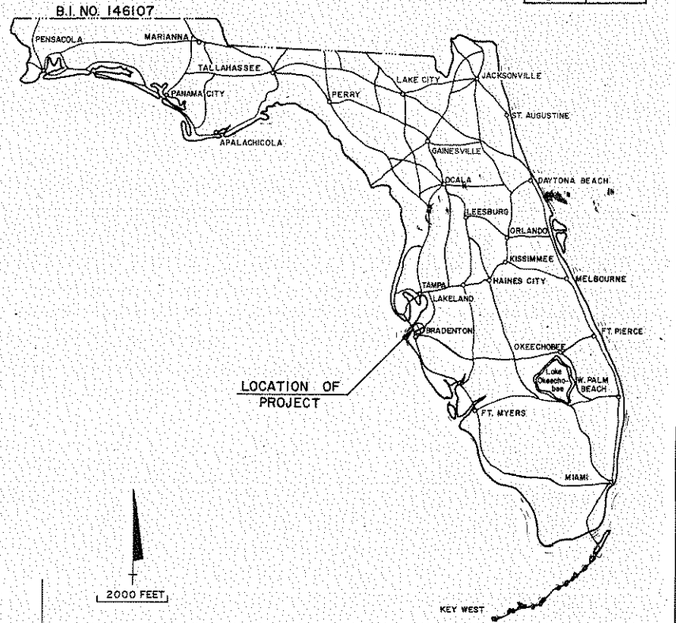
PLANS OF PROPOSED

STATE HIGHWAY

F.A. PROJ. NO. I-275-7(202)436
[STATE PROJECT NO. 13175-3402]
MANATEE COUNTY
STATE ROAD NO. 93

FISCAL YEAR	SHEET NO.
'81	1

B.I. NO. 146107



THIS CONTRACT PLAN SET INCLUDES:
- SUMMARY OF PAY ITEMS (5 SHEETS)
- ROADWAY PLANS
- STRUCTURE PLANS

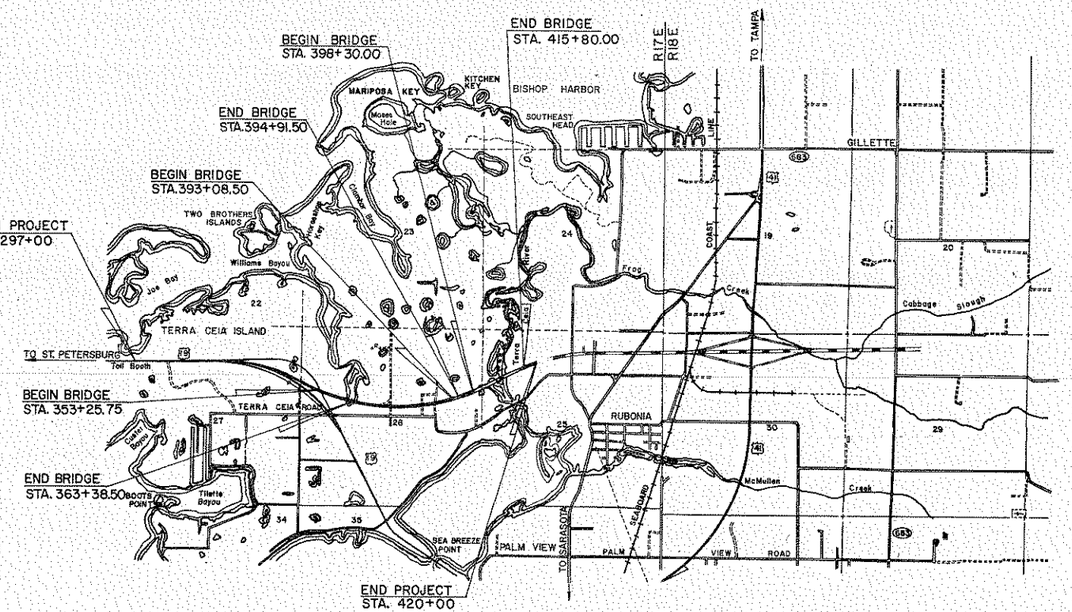
A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH GROUP OF PLANS

INDEX OF ROADWAY PLANS

ROAD DESIGN STANDARDS (BOOKLET DATED JAN. 1982)

Index No.	Standard Drawings
001	Standard Abbreviations
002	Standard Symbols
100	Temporary Slope Drain And Sod Flume
102	Floating And Staked Silt Barrier
103	Baled Hay Or Straw Barrier
220	Gutter Inlet - Type S
230	Ditch Bottom Inlet - Type 'A'
231	Ditch Bottom Inlet - Type 'B'
250	Straight Concrete Endwalls - Single And Multiple Pipes
261	U-Type Concrete Endwall - Baffles And Grates Optional
270	Flared End Section
280	Miscellaneous Drainage Details
281	Ditch Pavement And Sodding
300	Curb, Curb And Gutter
400	Guardrail
450	Fence Location
451	Fence - Type 'A'
500	Excavation, Embankment, And Grading
505	Embankment Utilization
510	Superelevation
525	Ramp Terminals
515	Turnouts
201	Supplementary Details For Manholes and Inlets
513	Flexible Pavement
415	Double-Tongue Double-Groove Precast Concrete Barrier Wall

REVISIONS
REVISED 01 of 01 (SIGNING) 3/2/82
Revised Sheet C-5 (Structures) 3-2-82



LENGTH OF PROJECT		
	LIN. FT.	MILES
ROADWAY	9354.25	1.771
BRIDGES	2945.75	0.558
NET LENGTH OF PROJECT	12300.00	2.329
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	12300.00	2.329

NOTE: Length of Project Based on ℄ Survey

W.A. LAUFMAN, P.E., F.D.O.T. PROJECT MANAGER

NOTE: THIS PROJECT TO BE LET TO CONTRACT WITH STATE PROJECT NO. 13175 - 3409

PLANS PREPARED BY
McFARLAND · JOHNSON ENGINEERS, INC.
CLEARWATER, FLORIDA

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

GOVERNING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 1977 AND SUPPLEMENTS THERETO IF NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.

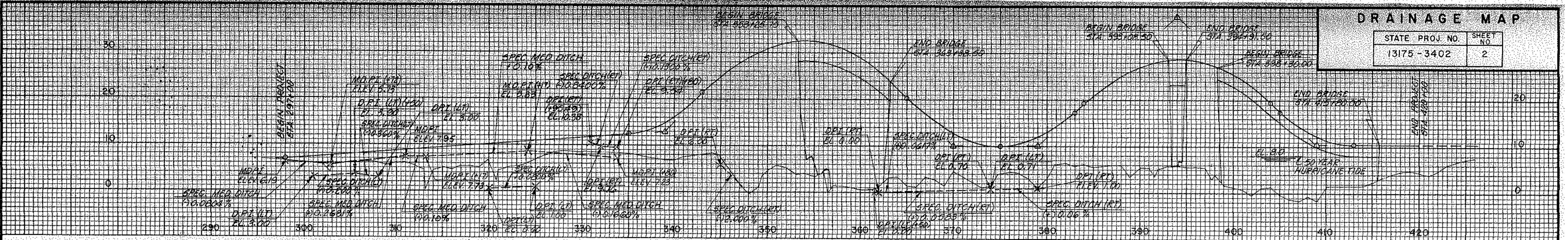
SUBMITTED BY _____
DIRECTOR OF PRECONSTRUCTION AND DESIGN

APPROVED _____ DATE _____

DIVISION ADMINISTRATOR
FEDERAL HIGHWAY ADMINISTRATION

DRAINAGE MAP

STATE PROJ. NO.	SHEET NO.
13175 - 3402	2



① 18" C.P.
N. FL. 3.15
S. FL. 3.01

② 30" C.P.
N. FL. 0.62
N&S. FL. 0.56
S. FL. 0.62

③ 30" C.P.
N. FL. 1.16
S. FL. 1.36
N. FL. 1.46
S. FL. 0.57

④ 18" C.P.
N. FL. 1.52
S. FL. 1.65

⑤ 18" C.P.
E. FL. 1.84
W. FL. 0.98

⑥ 18" C.P.
E. FL. 4.36
W. FL. 4.11

⑦ 24" C.P.
N. FL. 1.35
S. FL. 3.74

⑧ 24" C.P.
N. FL. 1.93
S. FL. 2.44

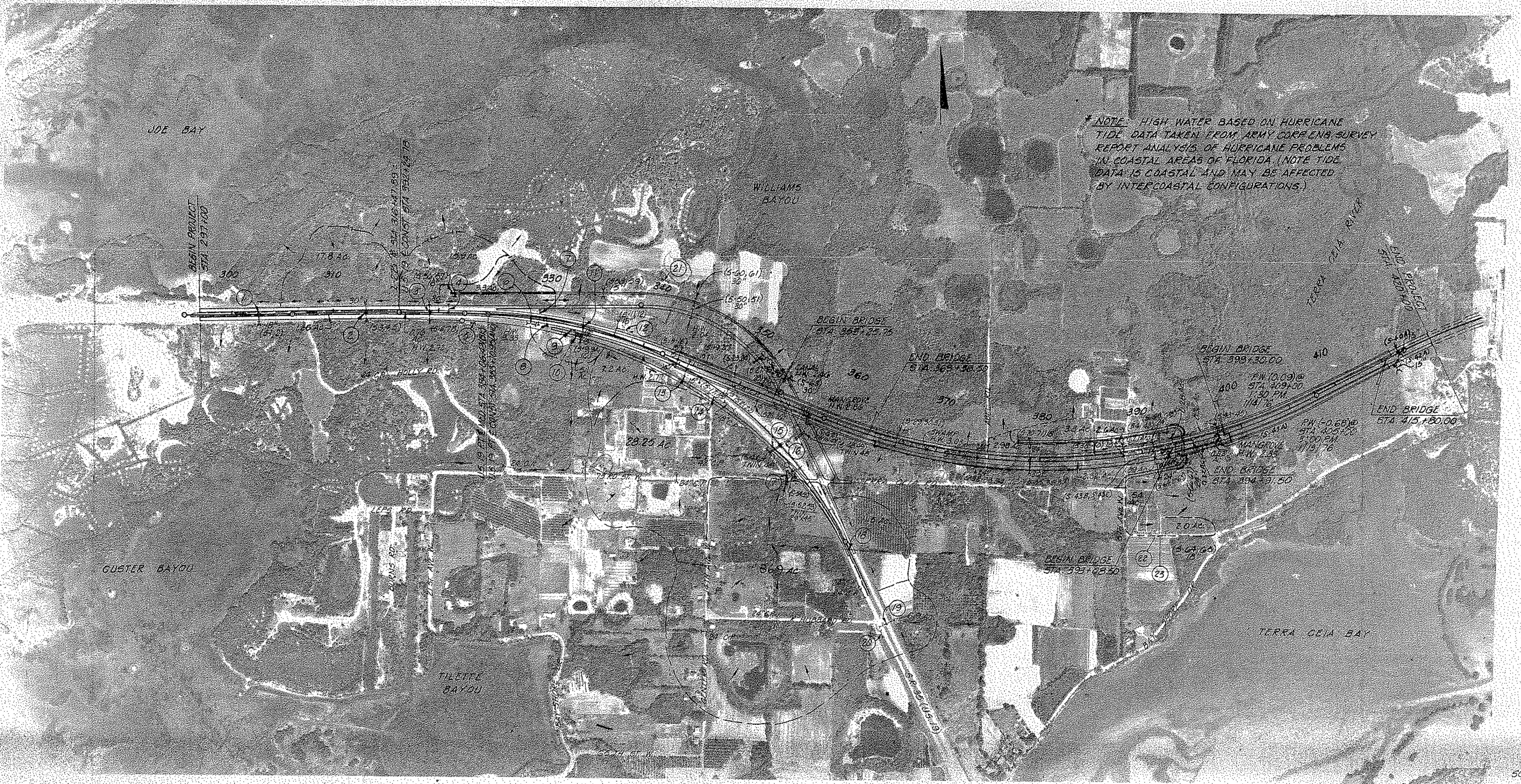
⑨ 18" C.P.
E. FL. 4.75
W. FL. 4.60

⑩ 18" C.P.
N. FL. 3.61
S. FL. 5.10

⑪ 18" C.P.
N. FL. 4.09
S. FL. 4.27

⑫ 19"x30" R.C.P.
E. FL. 4.17
W. FL. 4.18

⑬ 18" C.P.
N. FL. 0.24
S. FL. 1.42
N. FL. 1.42
S. FL. 1.59



* NOTE: HIGH WATER BASED ON HURRICANE TIDE DATA TAKEN FROM ARMY CORP ENG. SURVEY REPORT ANALYSIS OF HURRICANE PROBLEMS IN COASTAL AREAS OF FLORIDA. (NOTE TIDE DATA IS COASTAL AND MAY BE AFFECTED BY INTERCOASTAL CONFIGURATIONS.)

⑭ 24" C.P.
E. FL. 1.92
W. FL. 1.19

⑮ 48" C.P.
E. FL. (-)0.54
W. FL. (-)0.54

⑯ 48" C.P.
E. FL. (-)0.33
W. FL. 0.33
E. FL. (-)0.15
W. FL. 0.29

⑰ 3'x3' BOX & 36" C.P.
N. FL. 1.01
S. FL. 0.02
N. FL. 0.02
S. FL. 0.00

⑱ 24" C.P.
W. FL. 2.01
E. FL. 2.24
W. FL. 2.24
E. FL. 2.66

⑲ 24" C.P.
E. FL. 6.27
W. FL. 4.63
E. FL. 4.63
W. FL. 6.50

⑳ 18" C.P.
N. FL. 5.86
S. FL. 5.73

㉑ 18" C.P.
E. FL. (-)0.1
W. FL. (-)0.1

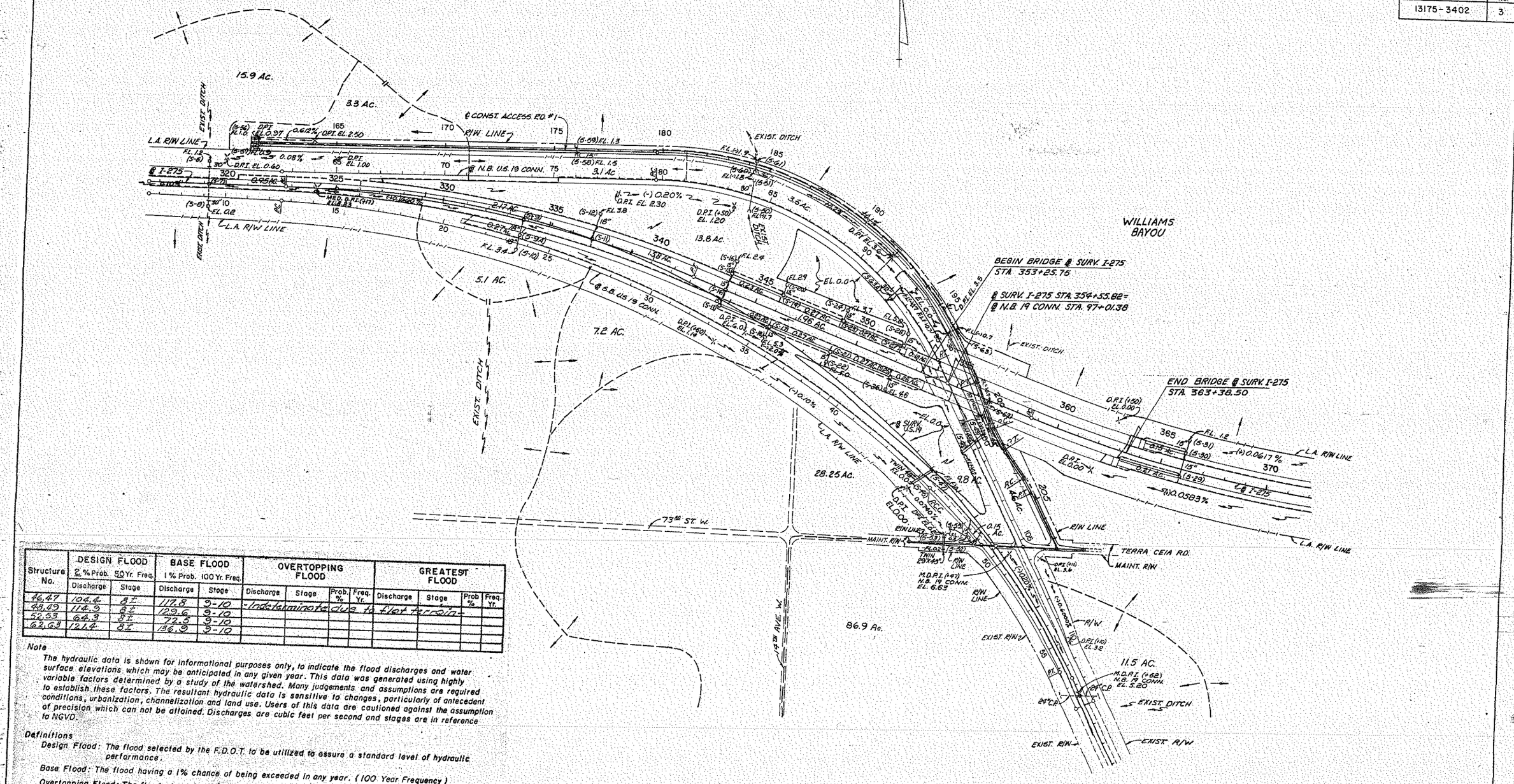
㉒ 12" C.P.
E. FL. 3.79
W. FL. 3.98

㉓ 12" C.P.
E. FL. 3.64
W. FL. 3.69

SCALE: 1" = 500'

PHOTO DATE 10-22-75 P.D. 1787

STATE PROJ. NO.	SHEET NO.
13175-3402	3



Structure No.	DESIGN FLOOD 2% Prob. 50 Yr. Freq. Discharge	Stage	BASE FLOOD 1% Prob. 100 Yr. Freq. Discharge	Stage	OVERTOPPING FLOOD Discharge	Stage	Prob. %	Freq. Yr.	GREATEST FLOOD Discharge	Stage	Prob. %	Freq. Yr.
46,47	104.6	8±	117.8	9-10	-Indeterminate due to flat terrain-							
48,49	112.3	8±	129.6	9-10								
52,53	64.3	8±	72.5	9-10								
62,63	121.2	6±	136.9	9-10								

Note

The hydraulic data is shown for informational purposes only, to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgements and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly of antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which can not be attained. Discharges are cubic feet per second and stages are in reference to NGVD.

Definitions

Design Flood: The flood selected by the F.D.O.T. to be utilized to assure a standard level of hydraulic performance.

Base Flood: The flood having a 1% chance of being exceeded in any year. (100 Year Frequency)

Overtopping Flood: The flood where flow occurs over the highway, over a watershed divide or thru emergency relief structures.

Greatest Flood: The most severe flood which can be predicted where overtopping is not practicable, normally one with a 0.2% chance of being exceeded in any year. (500 Year Frequency)

* See note sheet No. 2

SUPPLEMENTARY DRAINAGE MAP DETAIL OF INTERCHANGE I-275 AND U.S. 19

SCALE: 1" = 200'

DRAINAGE MAP

STATE PROJ. NO	SHEET NO.
13175-3403	2

Definitions:

Design Flood: The flood selected by the FDOT to be utilized to assure a specified level of performance.

Base Flood: The flood having a 1% chance of being exceeded in any year (100 year freq.)

Overtopping Flood: The flood where flow occurs over the highway, over a watershed divide or thru emergency relief structures.

Greatest Flood: The most severe flood which can be predicted where overtopping is not practicable, normally are within 0.2% chance of being exceeded in any year (500 year frequency)

BEGIN PROJECT-13175-3403
STA. 426+00

50 YR. HURRICANE TIDE EL 8.0 (NOT USED TO SET BASE ELEVATION)

Source: U.S. Army C.O.E. Survey Report "Analysis of Hurricane Problems in Coastal Areas of Florida."

BEGIN BRIDGE STA 349+25.80
END BRIDGE STA 352+25.80
BEGIN BRIDGE STA 384+22.62
END BRIDGE STA 387+22.62
BEGIN BRIDGE STA 441+39.33
END BRIDGE STA 444+39.33
BEGIN BRIDGE STA 503+70.00
END BRIDGE STA 506+70.00
END PROJECT STA 530+00.00

(1) 6 SPAN CONC. BRIDGE 636 SF OPENING EL CREEK; E.S. = -1.5, W.S. = -3.4 H.W. = 4.6

(2) 9 SPAN TIMBER TRESTLE AVE 930 S.F. OPENING EL CREEK BED = -1.5 H.W. = 6.8

(3) 2-150 FT. SPAN BRIDGES CHANNEL BOTTOM 40' H.W. = 7.5

(4) 8'x6' CONC. BOX CULVERT EL. E. FL. = 9.27 EL. W. FL. = 9.15 PW = 9.21 DATE 1/20/76 HW = 11.28

(5) 1 SPAN CONC. BRIDGE 352 SF OPENING EL CREEK; ES. = 1.5, W.S. = 1.2 H.W. = 10.3

(6) 24" C.P. N. FL 1.07 S FL 1.92

(7) 24" C.P. N. FL 2.62 S FL 2.92

(8) 24" C.P. N. FL 2.90 S. FL. 2.31

(9) 24" C.P. N. FL 1.40 S. FL 2.60

(10) 24" C.P. N. FL 2.70 S FL 2.15

(11) 15" C.P. N FL 2.70 S FL 2.74

(12) 15" C.P. N FL 2.80 S FL 2.81

(13) 15" C.P. N FL 3.19 S FL 3.35

(14) 24" C.P. N FL 7.62 S FL 7.04

(15) 24" C.P. N FL 7.99 S. FL 7.65

(16) 18" C.P. E FL 15.08 W FL 14.70

(17) 24"x 18" C.P. N FL 14.30 S FL 13.72

(18) 36" C.P. N FL 12.02 S. FL 10.82

(19) 36" C.P. E FL 9.37 W FL 9.19

(20) 15" C.P. E FL 12.38 W FL 11.12

(21) 18" C.P. E FL 11.78 W FL 11.90

(22) 24" C.P. N FL 5.99 S FL 6.58

(23) 18" C.M.P. N FL 10.49 S FL 11.58

(24) 24" C.P. E FL 8.84 W FL 8.93

(25) 24" C.P. E FL 8.26 W FL 8.84

(26) 30" C.P. E FL 10.95 W FL 10.77

(27) 30" C.P. E FL 11.27 W FL 10.93

(28) 18" C.P. N FL 12.52 S FL 12.62

(29) 18" C.P. E FL 12.84 W FL 13.35

(30) 22"x 36" C.P. E FL 11.68 W FL 11.95

(31) 22"x 36" C.P. E FL 11.86 W FL 11.58

(32) 24" C.M.P. N FL 15.92 S FL 14.94

(33) 2-24" C.P. E FL 13.27 W FL 13.26 E. FL 12.29 W FL 11.94

(34) 18" C.M.P. N FL 15.75 S FL 15.61

(35) 15" C.P. N FL 15.06 S FL 15.18

(36) 18" C.M.P. N FL 15.64 S FL. 15.79

(37) 18" C.P. N FL. 16.03 S FL 15.82

(38) 15" C.P. N FL. 15.65 S FL 15.62

(39) 24" C.P. N. FL 7.11 S FL 8.62

(40) 12" C.M.P. N. FL 10.87 S FL. 10.93

FRESHWATER — "FIRM" TIDAL

HYDRAULIC DATA - MAJOR CROSS DRAINS

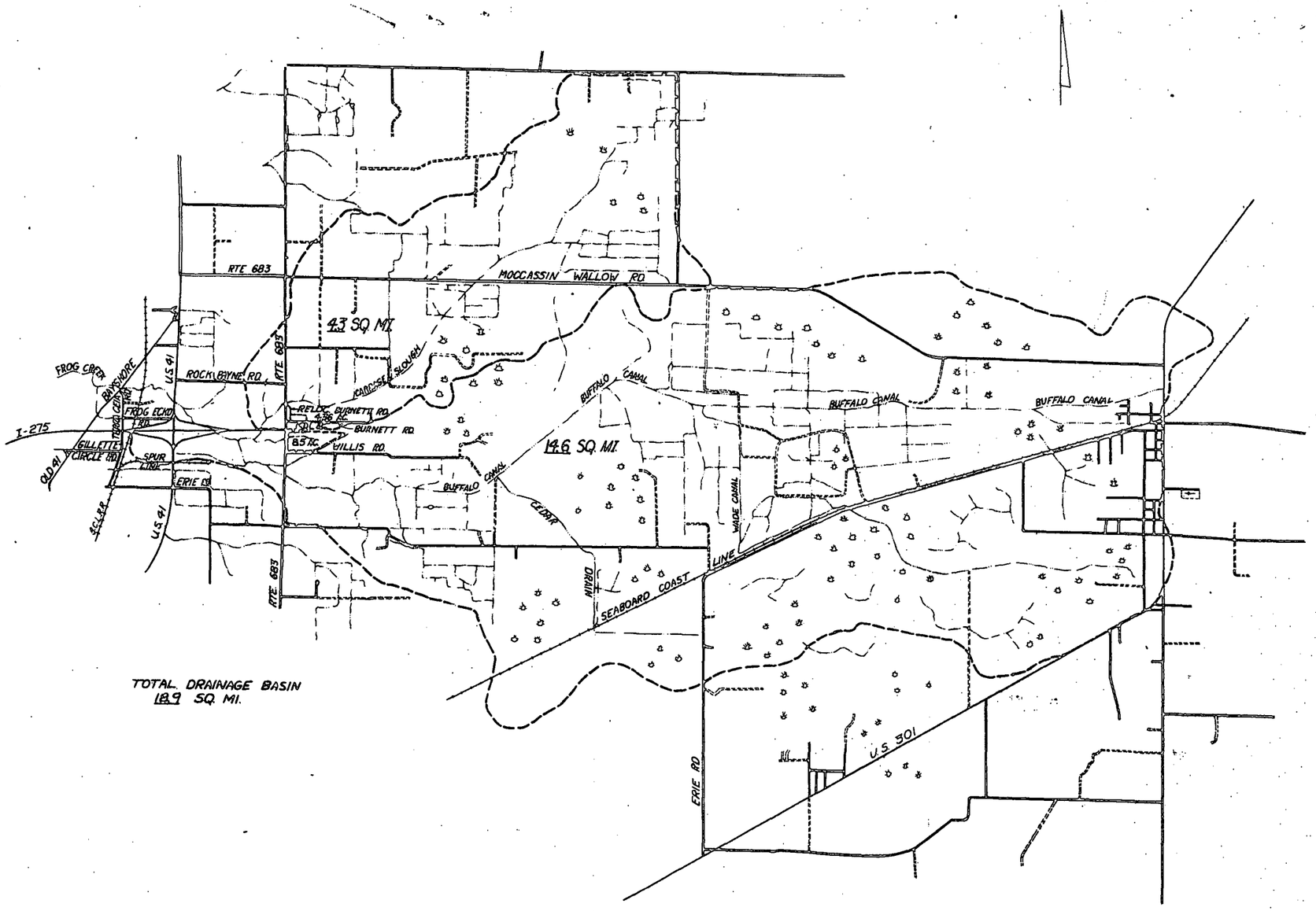
STRUC. NO.	Q 50 YRS.	Q 100 YRS.	Q H.W. 50 YR.	ELEV. 100 YR.	Q 500 YR.	H.W. 500 YR.	Q 100 YR.	100 YR. STAGE
5,6&7	29.3	33.0	4.31	4.45	42	4.7	13.0	TIDAL SURGE
8,8A	38.1	45.0	4.00	4.19	54	4.9	13.0	"
40,46A	23.7	26.7	11.81	11.87	34	12.0	13.0	"
77,78&79	25.0	28.2	14.12	14.36	35	14.5	13.0	"
101	900	1015	15.00	15.80	1270	18.9	N.A.	N.A.
127	870	981	16.00	17.26	1220	20.0	N.A.	N.A.

Note:
The hydraulic data is shown for informational purposes only, to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgements and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly of antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which can not be attained. Discharges are cubic feet per second and stages are in reference to NGVD.

Definitions above left.

SCALE: 1" = 500'
PHOTO DATE 10-22-75 P.D. 1787

STATE PROJ NO.	SHEET NO.
13173-3403	3



CABBAGE SLOUGH & FROG CREEK WATERSHEDS

TAKEN FROM U.S.G.S. PALMETTO & PARRISH QUADRANGLES

SCALE: 1" = 2000'

STATE PROJ. NO.	SHEET NO.
13175-3403	4

TEMP. CONST. EASEMENT
END BRIDGE STA. 468+45.69
PC
470
0.96 AC.
D.P.I. EL. 9.50
F.L. 9.5 (S-69)
15" (S-68)
-10.091%
D.P.I. EL. 9.20
(S-71) F.L. 9.2
-10.07%
15" (S-70)
D.P.I. EL. 8.00
45
RT
EXIST. 24"
EXIST. DITCH
FISH FARM
TEMP. CONST. EASEMENT
2.76 AC.
478
0.23 AC.
N 88° 25' 05" E
Ø SURVEY I-275
0.23 AC.
0.23 AC.
480
5.24 AC.
F.L. 12.0 (S-65)
15" (S-64)
F.L. 7.0 (S-65)
D.P.I. EL. 7.80
+0.10%
D.P.I. EL. 8.00
F.L. 8.0 (S-59)
(S-63) F.L. 11.7
15" (S-62)
(S-61)
15" (S-60)
42
F.L. 8.1 (S-58)
D.P.I. EL. 8.60
BEGIN BRIDGE STA. 482+20.62
EXIST. DITCH TO BE FILLED BY CONTRACTOR
EXIST. DITCH TO BE FILLED BY CONTRACTOR
7.80 AC.
5.79 AC.
6.27 AC.
(S-56) 15"
(S-57) F.L. 12.4
(S-49) 15"
D.P.I. EL. 12.60
F.L. 12.6 (S-48)
(S-47)
PT
F.L. 11.5
D.P.I. EL. 11.50
L.A. R/W LINE
-0.987%
-10.11%
D.P.I. EL. 8.50
F.L. 8.3 (S-57)
RAMP "A"
-0.857%
D.P.I. EL. 8.60
F.L. 8.6 (S-46)
20
RT
-0.857%
D.P.I. (EL. 11.0 ±)
F.L. 10.7 (S-53)
(S-52) F.L. 10.9
0.37 AC.
D.P.I. EL. 11.00
EXIST. DITCH TO BE FILLED BY CONTRACTOR
7.09 AC.
0.57 AC.
0.38 AC.
0.38 AC.
(S-82) 15"
F.L. 11.8 (S-83)
D.P.I. EL. 11.80
EXIST. 24"
D.P.I. EL. 11.30
F.L. 11.30 (S-92)
(-)1.30%
(S-91) 15" (S-90)
D.P.I. EL. 11.100
F.L. 10.0
PC
L.A. R/W LINE
FROG CREEK CHANNEL RELOCATION
140
ARC
R/W LINE 2
D.P.I. EL. 7.20
(-)10.80%
55
20
390
1.22 AC.
BEGIN BRIDGE STA. 391+88.00
PC
Ø SURVEY I-275 STA. 483+09.84
Ø SURVEY U.S. 41 STA. 381+84.75
F.L. 11.1 (S-95)
F.L. 10.5 (S-96) 15"
65
165
PT
(S-84) 15"
(S-85)
F.L. 11.4
D.P.I. EL. 11.40
(-)0.10%
185
490
ARC
73
2.93 AC.
1.27 AC.
RAMP "B"
F.L. 12.9 (S-80)
15"
(S-81) F.L. 12.0
D.P.I. EL. 12.00
85
PT
D.P.I. EL. 11.20
(S-86) F.L. 11.2
24"
90 (S-87)
D.P.I. EL. 11.00
F.L. 11.0
PC
L.A. R/W LINE
+0.24%
495
95
135
PT
26.00 Ac.
EXIST. DITCH
(-)0.110%
25
RT
80
D.P.I. EL. 10.50
F.L. 10.6 (S-77)
EXIST. 30"
(S-78) 30"
0.92 AC.
0.92%
(S-80) F.L. 12.9
15"
(S-81) F.L. 12.0
D.P.I. EL. 12.00
85
PT
RAMP "A"
(S-87)
D.P.I. EL. 11.00
F.L. 11.0
PC
L.A. R/W LINE
+0.24%
95
135
PT
EXIST. DITCH
50
370
EXIST. DITCH
F.L. 11.60 (S-79)
D.P.I. EL. 11.2
60
EXIST. DITCH
BEGIN BRIDGE STA. 499+29.50
Ø SURVEY I-275 STA. 500+00.00 =
℄ CONST. FROG CREEK CHANNEL RELOCATION STA. 130+00.00
R/W LINE 2
PC
F.L. 9.1
D.P.I. EL. 9.10
0.29 Ac.
0.29 Ac.
F.L. 10.0 (S-97)
15" (S-146)
F.L. 10.1 (S-147)
15"
(S-97)
18"
(S-98)
10"
F.L. 9.1
D.P.I. EL. 9.10
PC
F.L. 12.0 (S-99)
PC
ARC
140
R/W LINE 2
PC
END BRIDGE STA. 500+70.30

SUPPLEMENTARY DRAINAGE MAP
DETAIL OF INTERCHANGE
I-275 AT S.R. 45
SCALE: 1" = 100'

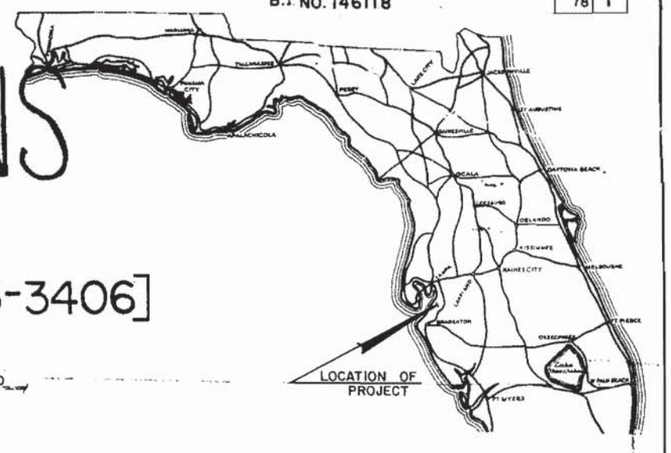
W. N. Penny

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

FINAL ~~PLANS OF PROPOSED~~ PLANS
STATE HIGHWAY

B.I. NO. 146118

FISCAL YEAR	SHEET NO.
78	1



F.A. PROJ. NO. I-75-7(90)435 [STATE PROJ. NO. 13075-3406]

MANATEE COUNTY

STATE ROAD NO. 93A

THIS CONTRACT INCLUDES
ROADWAY PLANS
STRUCTURE PLANS
SUMMARY OF PAY ITEMS (3 Sheets)
A Detailed Index Appears On The Key Sheet Of Each Group Of Plans.

(FOR CONSTRUCTION NOTEBOOKS - SEE BACK OF THIS SHEET)
AND BRIDGE CLEARANCES

INDEX OF ROADWAY PLANS

Sheet No.	Sheet Description
1	Key Map
2-4	Drainage Maps
5	Alignment Control
6-9 & 9A	Typical Sections
10	Summary of Quantities
11-11A	Summary of Drainage Structures
12-16	Plan and Profile (Mainline)
17-35	Interchange S.R. S-675
36-48	Drainage Structures
49-50	Roadway Soil Survey
51-85	Cross Sections (Mainline)
86-112	Cross Sections (Interchange-S.R. S-675)
113-117	Selective Clearing and Grubbing
118-124	Utility Adjustments
125-126	Miscellaneous Construction Details
127	Index 8011 - Conc. Box Culv.
128	Index 8011-S - Conc. Box Culv.
129	Index 8012 - Conc. Box Culv.
130-131	Index 12045 - Conc. Box Culv. (2 Sheets)
132-133	Index 12046 - Conc. Box Culv. (2 Sheets)
134	Index 12047 - Conc. Box Culv.
135-136	Index 12067 - Conc. Appr. Slabs (2 Sheets)

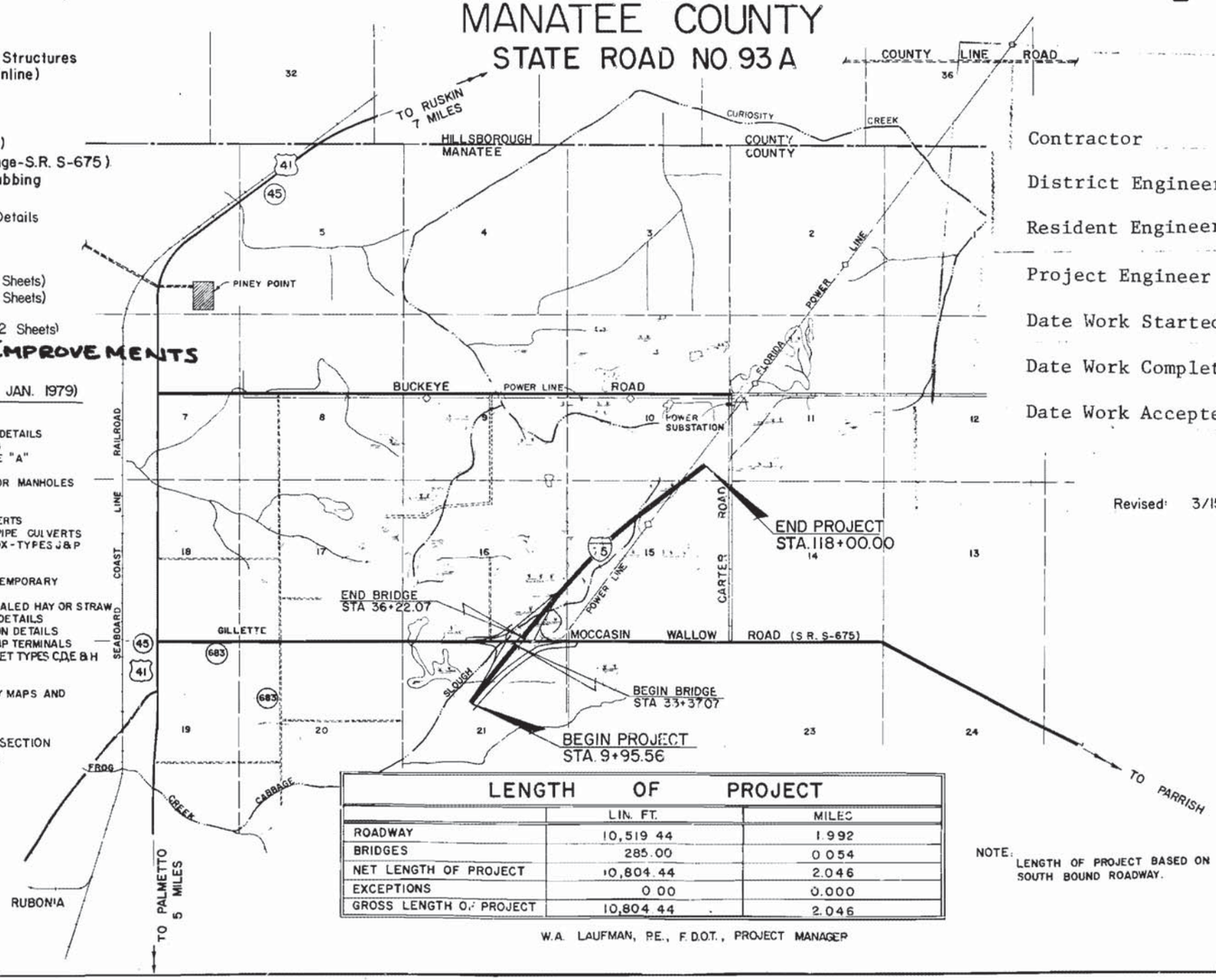
I-8 WATER SYSTEM IMPROVEMENTS

ROAD DESIGN STANDARDS (BOOKLET DATED JAN. 1979)

BGR - 01	GUARDRAIL CONSTRUCTION
BMB - 01	MEDIAN BARRIER DETAILS
DMD - 01	MISCELLANEOUS DRAINAGE DETAILS
DPS - 01	DITCH PAVEMENT & SODDING
DDI - 01	DITCH BOTTOM INLET - TYPE "A"
DGI - 01	GUTTER INLET - TYPE "S"
DSD - 01	SUPPLEMENTARY DETAILS FOR MANHOLES & INLETS
DCE - 01	CONCRETE ENDWALLS
DCE - 03	U-ENDWALLS FOR PIPE CULVERTS
DCE - 04	FLARED END SECTION FOR PIPE CULVERTS
DSB - 01	INLET, MANHOLE, JUNCTION BOX - TYPES J & P
FLD - 01	FENCE LOCATION DETAILS
FTA - 01	FENCE, TYPE A
GEC - 01	EROSION CONTROL DEVICES, TEMPORARY SLOPE DRAINS
GEC - 05	EROSION CONTROL DEVICES, BALED HAY OR STRAW
GEU - 01	EMBANKMENT UTILIZATION DETAILS
GRC - 01	MISC. ROADWAY CONSTRUCTION DETAILS
GRT - 01	STANDARD DETAILS FOR RAMP TERMINALS
DDI - 03	STANDARD DITCH BOTTOM INLET TYPES C, E & H
GSA - 01	STANDARD ABBREVIATIONS
GSE - 01	SUPERELEVATION DETAILS
GSS - 01	STANDARD SYMBOLS FOR KEY MAPS AND PLAN SHEETS
GTO - 01	TURNOUT DETAILS
PCG - 01	CURB, CURB AND GUTTER
DME - 01	SIDE DRAIN MITERED END SECTION
DCI - 02	CURB INLETS - TYPES 5 & 6

REVISIONS

Sheets 1 & 1A (Revised 3-15-79)
Sheets 01,02,10,11,11-A,21,22,26,27,44, 47,A-1,A-2 & A-36 (REVISED 4-5-79)
Sheet 23 (Revised 2-9-81)



LENGTH OF PROJECT		
	LIN. FT.	MILES
ROADWAY	10,519.44	1.992
BRIDGES	285.00	0.054
NET LENGTH OF PROJECT	10,804.44	2.046
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	10,804.44	2.046

NOTE: LENGTH OF PROJECT BASED ON SOUTH BOUND ROADWAY.

W.A. LAUFMAN, P.E., F.D.O.T., PROJECT MANAGER

Contractor	Wiley N. Jackson
District Engineer	C. W. Monts De Oca
Resident Engineer	W. N. Penny
Project Engineer	H. W. Pipkins
Date Work Started	July 9, 1979
Date Work Completed	June 19, 1981
Date Work Accepted	Conditionally Accepted August 11, 1981

Revised: 3/15/79

[2000 FT.]

PLANS PREPARED BY
WATSON AND COMPANY
ARCHITECTS, ENGINEERS, PLANNERS
TAMPA, FLORIDA

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA

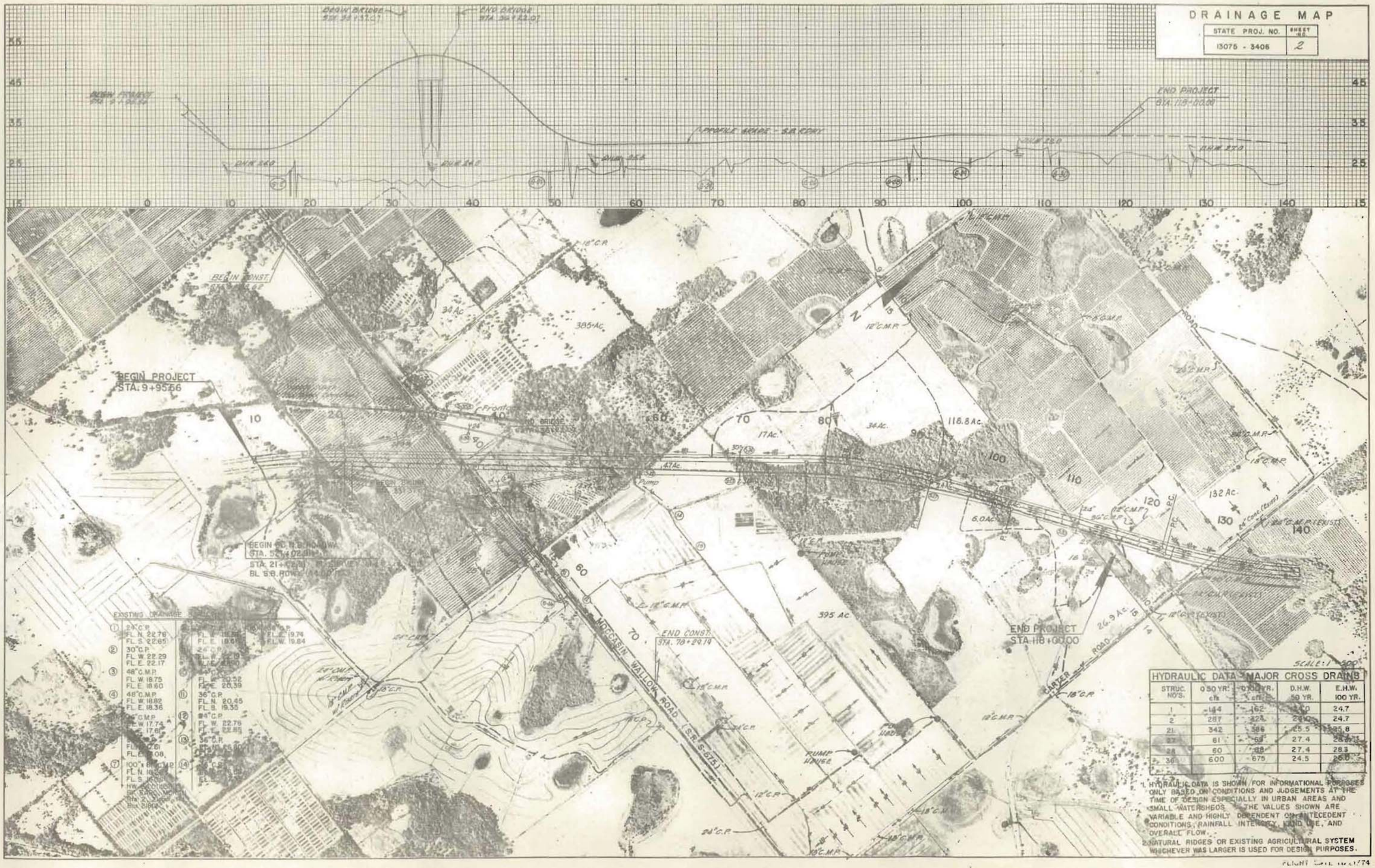
GOVERNING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 1977 AND SUPPLEMENT THERETO IF NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT

SUBMITTED BY _____
DIRECTOR OF ROAD OPERATIONS

APPROVED _____ DATE _____
DIVISION ENGINEER
FEDERAL HIGHWAY ADMINISTRATION

DRAINAGE MAP

STATE PROJ. NO.	SHEET NO.
13075 - 3406	2



EXISTING DRAINAGE STRUCTURES

①	24"C.P. FL. N. 22.78 FL. S. 22.65	⑨	24"C.P. FL. E. 19.76 FL. W. 19.84
②	30"C.P. FL. W. 22.29 FL. E. 22.17	⑩	24"C.P. FL. E. 20.52 FL. W. 20.39
③	48"C.M.P. FL. W. 18.75 FL. E. 18.60	⑪	36"C.P. FL. N. 20.45 FL. S. 19.35
④	48"C.M.P. FL. W. 18.82 FL. E. 18.36	⑫	84"C.P. FL. W. 22.76 FL. E. 22.85
⑤	72"C.M.P. FL. W. 17.74 FL. E. 17.61	⑬	36"C.P. FL. W. 25.80
⑥	FL. E. 21.61 FL. E. 21.08	⑭	24"C.P.
⑦	100"x 6[illegible]"C.M.P. FL. N. 16.2[illegible] FL. S. 16.0[illegible]		

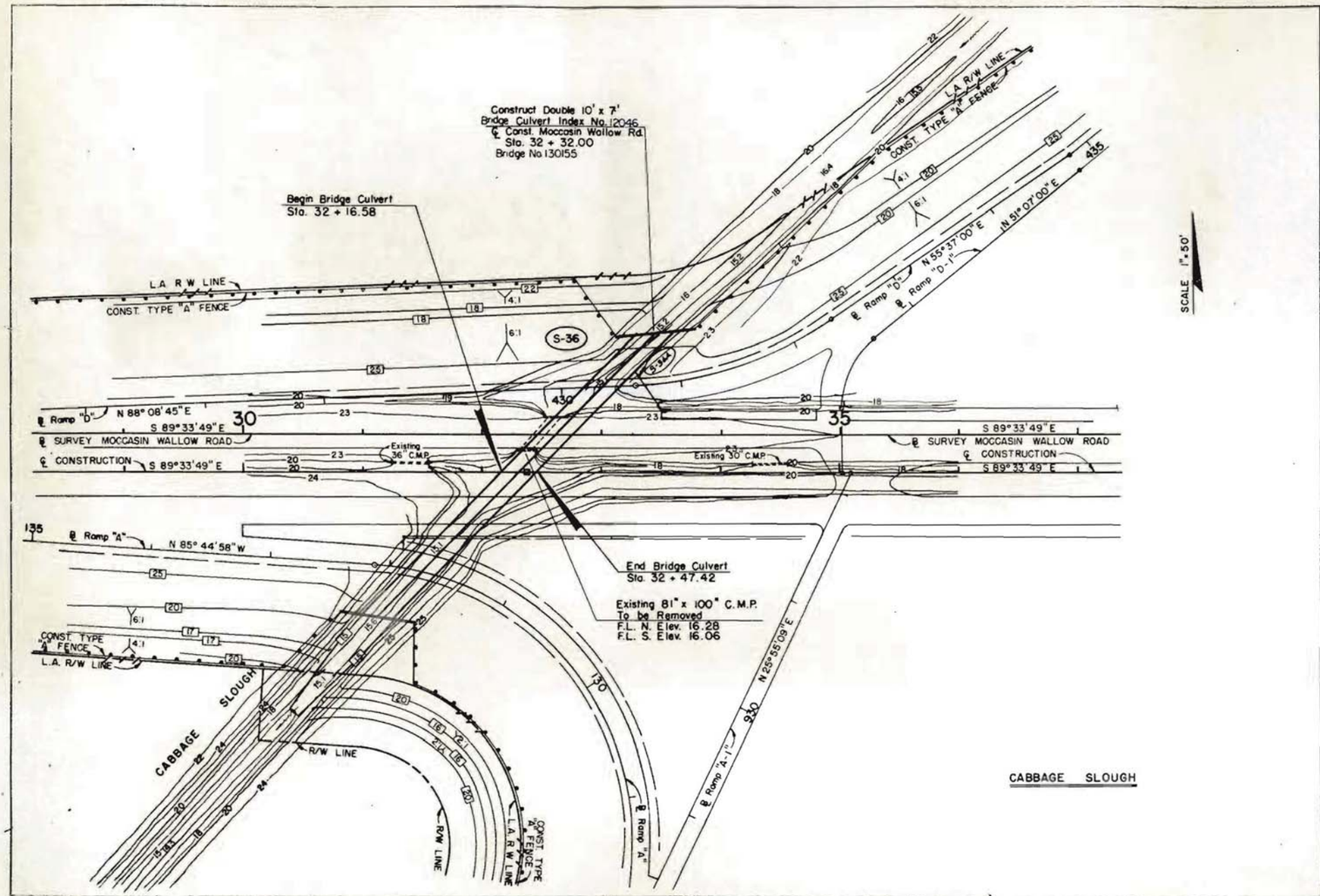
HW [illegible]
SW [illegible]
Sta. 2[illegible]
Bot. 2[illegible]

HYDRAULIC DATA - MAJOR CROSS DRAINS

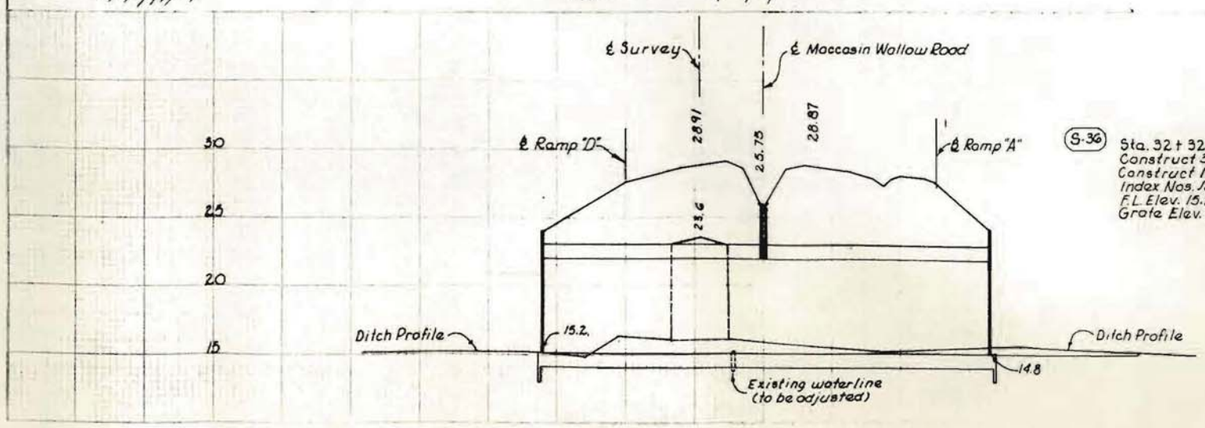
STRUC. NO'S.	050 YR. cfs	0100 YR. cfs	D.H.W. 50 YR.	E.H.W. 100 YR.
1	144	162	24.0	24.7
2	287	323	24.0	24.7
21	342	386	25.5	25.8
27	61	69	27.4	28.0
28	60	68	27.4	28.3
36	600	675	24.5	25.0

1. HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY BASED ON CONDITIONS AND JUDGEMENTS AT THE TIME OF DESIGN ESPECIALLY IN URBAN AREAS AND SMALL WATERSHEDS. THE VALUES SHOWN ARE VARIABLE AND HIGHLY DEPENDENT ON ANTECEDENT CONDITIONS, RAINFALL INTENSITY, LAND USE, AND OVERALL FLOW.
2. NATURAL RIDGES OR EXISTING AGRICULTURAL SYSTEM WHICHEVER WAS LARGER IS USED FOR DESIGN PURPOSES.

PLOT DATE 10/31/74

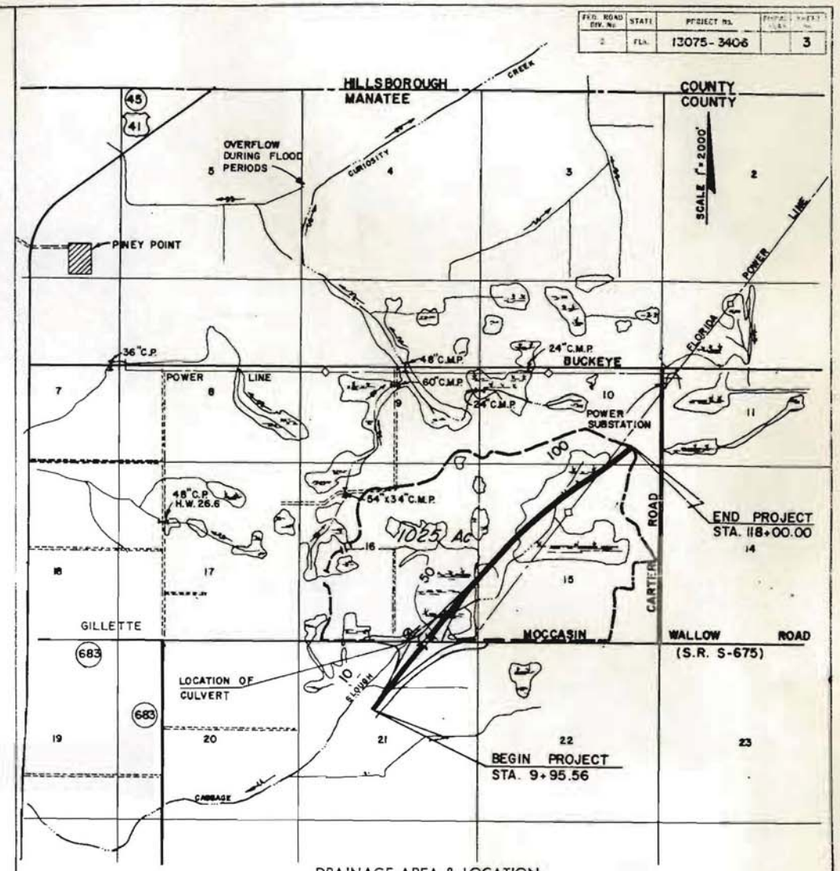


CABBAGE SLOUGH



S-36 Sta. 32 + 32 ℄ Moccasin Wallow Rd. (Skew 44° 30' Rt.)
Construct 325' Double 10'x 7' Box Culvert
Construct Inlet Type "A" On Top Slab
Index Nos. 120464 DDI-01
F.L. Elev. 15.2 Lt., F.L. Elev. 14.8 Rt.
Grate Elev. 25.65

FED. ROAD DIV. No.	STATE	PROJECT No.	FISCAL YEAR	SHEET No.
2	FLA.	13075-3406		3



DRAINAGE AREA & LOCATION

EXISTING STRUCTURES

(REFERENCE)	(1)	(2)	(3)	(4)	(5)
FOUNDATION					
OVERALL LENGTH	100" X 81" CMP				
SPAN LENGTH	F.L. N. 16.28				
TYPE CONSTRUCTION	F.L. S. 16.06				
SIDEWALKS	H.W. 24.0 (1958)				
ROADWAY WIDTH					
ELEV LOW MEMBER					

DESIGN DATA

STRUCTURE RECOMMENDATIONS
1. LOADING HS-20-44
2. BRIDGE ROADWAY WIDTH NOT APPLICABLE FT.
3. SIDEWALKS NONE

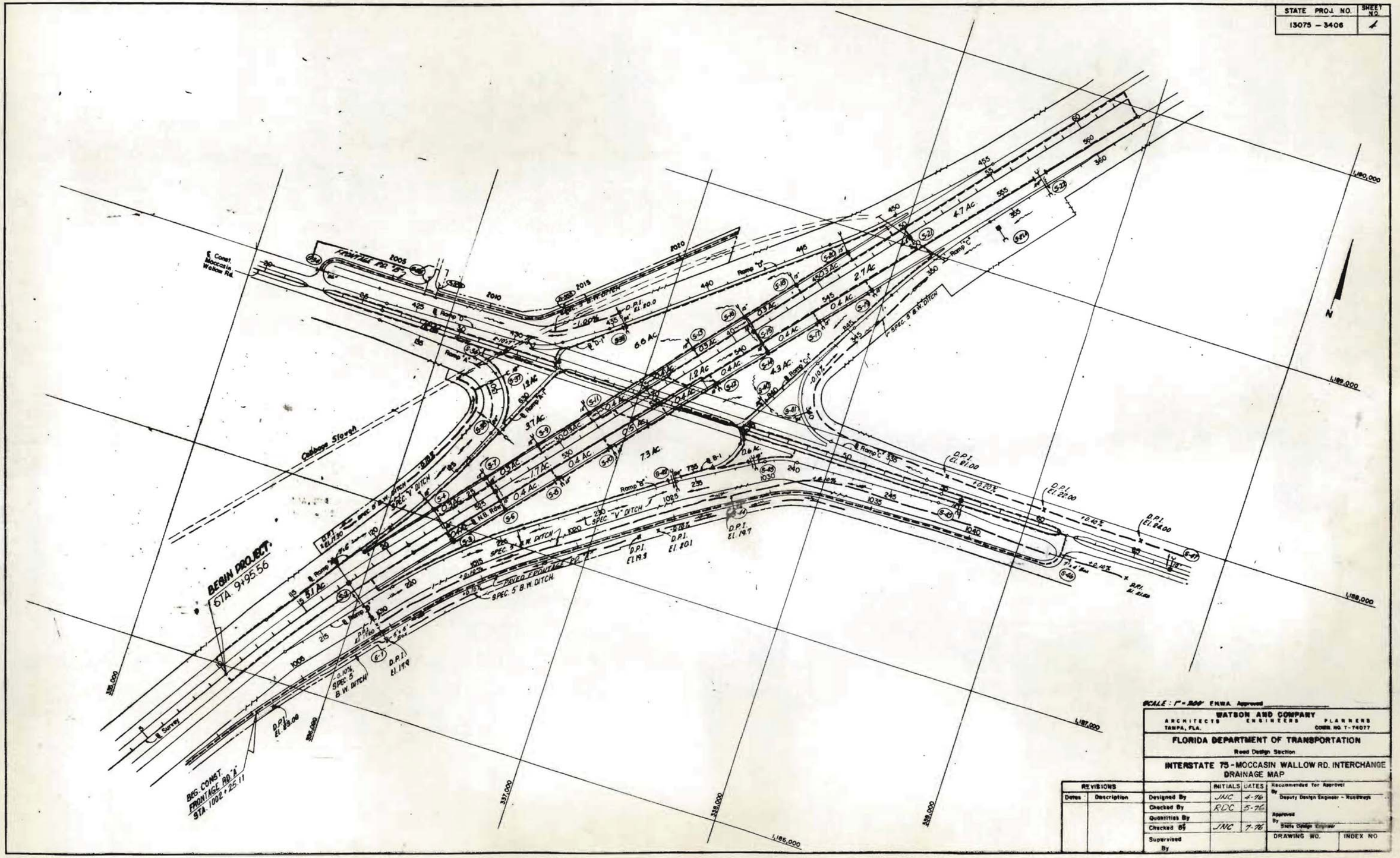
DRAINAGE RECOMMENDATIONS: DOUBLE 10'x7' BOX CULVERT
1. BEGIN BRIDGE STATION 32 + 16.58 END BRIDGE STATION 32 + 47.42
2. CENTERLINE GRADE ELEVATION 28.89
3. BRIDGE SKEW ANGLE 44° 30" RT.
4. CHANNEL BOTTOM, WIDTH 18' ELEVATION 16.0 SIDE SLOPES
CENTERLINE CHANNEL BOTTOM, STATION 32 + 32.00 ℄ CONST.
LIMITS OF CHANNEL EXCAVATION RT. LT.
5. CLEARANCE, NAVIGATION: HORIZ. DRIFT: HORIZ.
VERT. ABOVE EL. VERT. ABOVE EL.
6. DRAINAGE AREA 1025 Ac.
7. WATER STAGE DATA: MAX. STAGE OF RECORD DESIGN H.W. NORMAL HIGH WATER
ELEVATION 24.5 24.5 20.5
DATE OF OCCURRENCE 1958
RECURRENCE INTERVAL UNKNOWN 50
8. DESIGN DISCHARGE 600 CFS SOURCE DRAINAGE ANALYSIS
RECURRENCE INTERVAL 50 YEARS
9. DESIGN VELOCITY 4.3 FPS

REMARKS: BASIC FLOOD DATA: Q = 675 cfs
(100 yr.) E.H.W. = 24.8

RECOMMENDED DISTRICT DR. ENGR.
APPROVED ENGINEER OF DRAINAGE for 10-25-76

BRIDGE DESIGN DATA SHEET DD IB

STATE PROJ. NO.	SHEET NO.
13075 – 3406	4



SCALE: 1" = 200' FHWA Approved

WATSON AND COMPANY
ARCHITECTS ENGINEERS PLANNERS
TAMPA, FLA. CERT. NO. T-74077

FLORIDA DEPARTMENT OF TRANSPORTATION
Road Design Section

INTERSTATE 75 - MOCCASIN WALLOW RD. INTERCHANGE
DRAINAGE MAP

REVISIONS			INITIALS	DATES
Dates	Description	Designed By	JNC	4-76
		Checked By	RDC	5-76
		Quantities By		
		Checked By	JNC	7-76
		Supervised By		

Recommended for Approval
By _____ Deputy Design Engineer - Roadways

Approved
By _____ State Design Engineer

DRAWING NO. | INDEX NO

Set # 2 EP

B.I.NO. 146115

FISCAL YEAR	SHEET NO.
1978	1

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

FINAL ~~PLANS OF PROPOSED~~ PLANS

STATE HIGHWAY

F.A. PROJ. NO. I-75-7(137)436 [STATE PROJ. NO. 13075-3409]

MANATEE COUNTY

STATE ROAD NO. 93 A

THIS CONTRACT INCLUDES
ROADWAY PLANS
STRUCTURE PLANS
SUMMARY OF PAY ITEMS (4 SHEETS)
SIGNING AND PAVEMENT MARKING PLANS
A Detailed Index Appears On The Key Sheet Of Each Group Of Plans.

INDEX OF ROADWAY PLANS

Sheet No.	Sheet Description
1	Key Map
2-4	Drainage Maps
5	Alignment Control
6-8 & 8A	Typical Sections
9	Summary of Quantities
10	Summary of Drainage Structures
11-17	Plan and Profile (Mainline)
18-19	Grade Separation, Buckeye Road
20	Special Profiles - Frontage Road
21-29	Drainage Structures
30-31	Roadway Soil Survey
32-86	Cross Sections
87-91	Selective Clearing and Grubbing
92-99	Utility Adjustments
100	Index No. 12064 Conc. Approach Slab
101-102	Index No. 12065 Conc. Approach Slab
103	Index No. 8011 Box Culvert
104	Index No. 8011-5 Box Culvert
105	Index No. 8013 Box Culvert
106	Index No. 8013-5 Box Culvert

NOTEBOOKS:

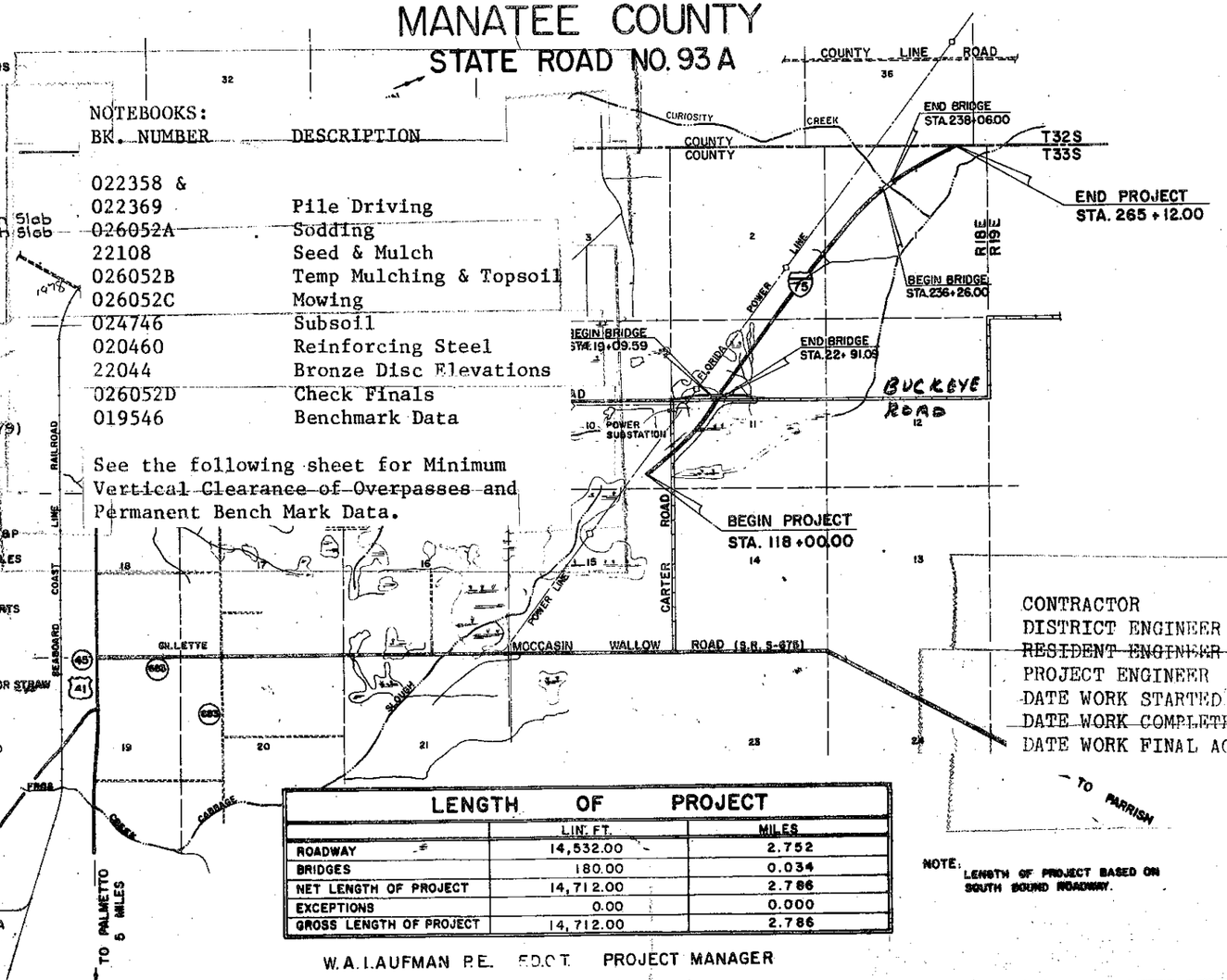
BK. NUMBER	DESCRIPTION
022358 & 022369	Pile Driving
026052A	Sodding
22108	Seed & Mulch
026052B	Temp Mulching & Topsoil
026052C	Mowing
024746	Subsoil
020460	Reinforcing Steel
22044	Bronze Disc Elevations
026052D	Check Finals
019546	Benchmark Data

See the following sheet for Minimum Vertical Clearance of Overpasses and Permanent Bench Mark Data.

ROAD DESIGN STANDARDS (BOOKLET DATED JAN. 1979)

BGR - 01	GUARDRAIL CONSTRUCTION
DMD - 01	MISCELLANEOUS DRAINAGE DETAILS
DPS - 01	DITCH PAVEMENT & SODDING
DDI - 01	DITCH BOTTOM INLET - TYPE "A"
DSB - 01	INLET, MANHOLE, JUNCTION BOX-TYPES J&P
DGI - 01	GUTTER INLET - TYPE "S"
DSD - 01	SUPPLEMENTARY DETAILS FOR MANHOLES & INLETS
DCE - 01	CONCRETE ENDWALLS
DCE - 03	U-ENDWALLS FOR PIPE CULVERTS
DCE - 04	FLARED END SECTION FOR PIPE CULVERTS
DME - 01	MITERED END SECTION
FLD - 01	FENCE LOCATION DETAILS
FTA - 01	FENCE, TYPE A.
GEC - 01	EROSION CONTROL DEVICES TEMPORARY SLOPE DRAINS
GEC - 05	EROSION CONTROL DEVICES, BALED HAY OR STRAW
GEU - 01	EMBANKMENT UTILIZATION DETAILS
GRC - 01	MISC. ROADWAY CONSTRUCTION DETAILS
GSA - 01	STANDARD ABBREVIATIONS
GSE - 01	SUPERELEVATION DETAILS
GSS - 04	STANDARD SYMBOLS FOR KEY MAPS AND PLAN SHEETS
GTO - 01	TURNOUT DETAILS
PCG - 01	CURB, CURB AND GUTTER

REVISIONS
Sheets 7, 10 & 24 (Revised 2-6-79)
Summary of Roadway Pay Items (Revised 2-6-79)



LENGTH OF PROJECT		
	L.IN. FT.	MILES
ROADWAY	14,532.00	2.752
BRIDGES	180.00	0.034
NET LENGTH OF PROJECT	14,712.00	2.786
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	14,712.00	2.786

NOTE: LENGTH OF PROJECT BASED ON SOUTH BOUND ROADWAY.

W.A. LAUFMAN P.E. FDOT PROJECT MANAGER

PLANS PREPARED BY
WATSON AND COMPANY

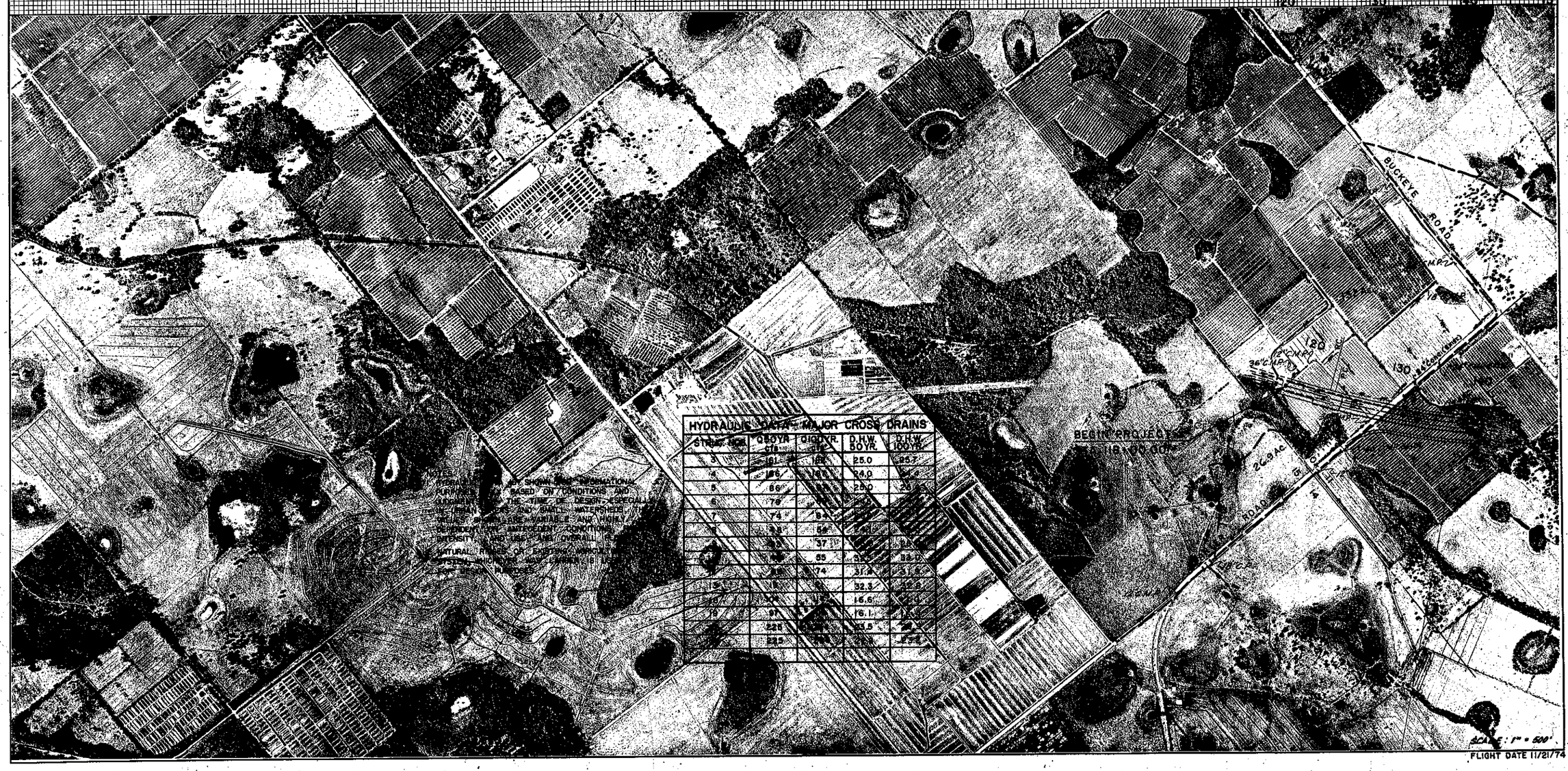
CONTRACTOR	ANDERSON CONTR. CO. INC.
DISTRICT ENGINEER	C. W. MONTS DE OCA
~~RESIDENT ENGINEER~~	W. N. PENNY
PROJECT ENGINEER	H. W. PIPKINS
DATE WORK STARTED	JUNE 6, 1979
DATE WORK COMPLETED	MAY 20, 1981
DATE WORK FINAL ACCEPTED	MAY 20, 1981

SPECIAL PROVISIONS FOR THIS PROJECT.
SUBMITTED BY _____
DIRECTOR OF ROAD OPERATIONS

APPROVED _____ DATE _____
DIVISION ENGINEER
FEDERAL HIGHWAY ADMINISTRATION

DRAINAGE MAP

STATE PROJ. NO.	SHEET NO.
13075 - 3409	2



HYDRAULIC DATA - MAJOR CROSS DRAINS

STRUCT. NO.	Q50YR cfs	Q100YR cfs	D.H.W. 50 YR.	D.H.W. 100 YR.
3	161	182	25.0	25.7
4	156	176	24.0	24.6
5	86	97	25.0	25.7
6	78	88		
7	74	84		
8	33	37		
9	58	65	33.0	33.7
10	66	74	31.4	32.1
11	15	17	32.3	32.8
12	14	16	16.5	16.9
13	67	76	16.1	16.4
14	228	258	35.5	36.2
15	235	266	29.6	29.9

FLIGHT DATE 11/21/74

E&S ORLANDO FLA. 10 2550-
ORDER STOCK NO. 40020

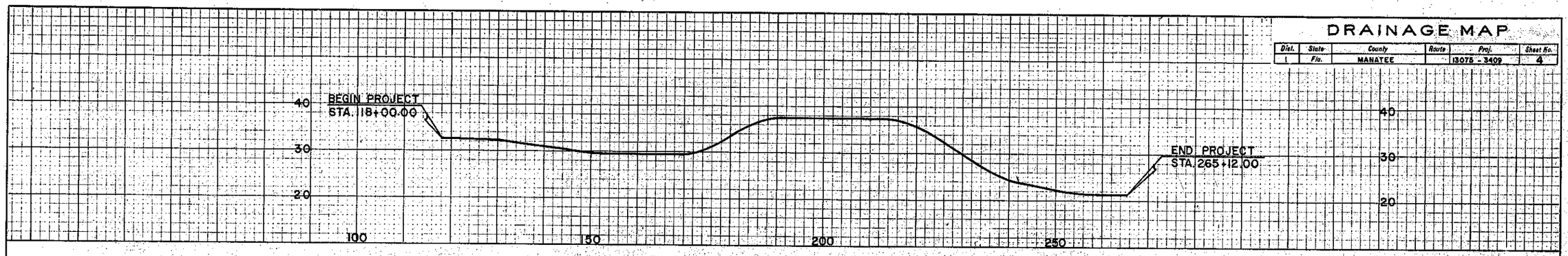
DRAINAGE MAP

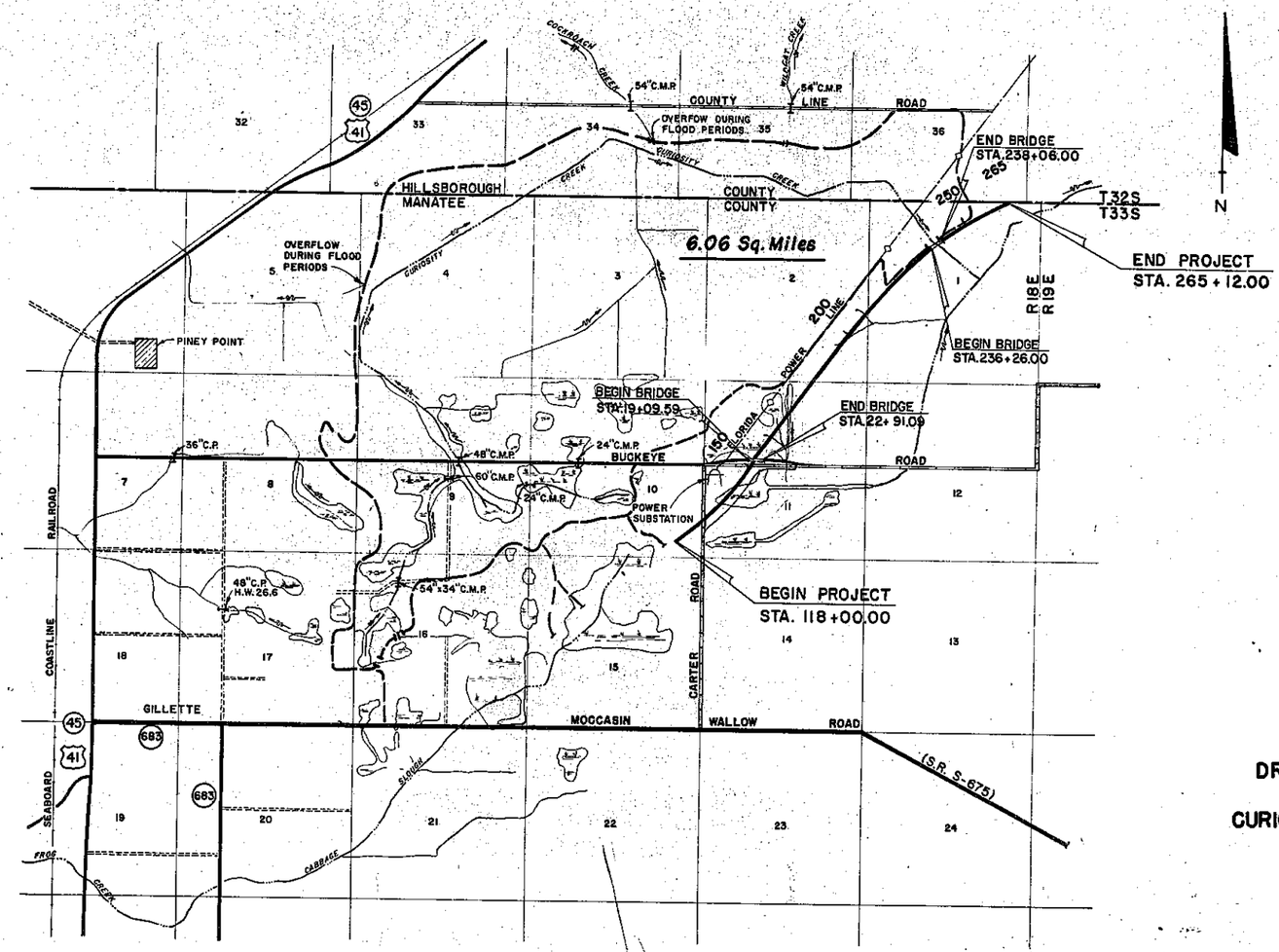
STATE PROJ. NO.	SHEET NO.
13076 - 3409	3

FLIGHT DATE

DRAINAGE MAP

Dist.	State	County	Route	Proj.	Sheet No.
1	Fla.	MANATEE		13075 - 3409	4





DRAINAGE MAP FOR CURIOSITY CREEK

SCALE: 1" = 2000'

Appendix C
Flood Insurance Rate Maps (FIRM)

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

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Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Florida State Plane West Zone (FIPS zone 0902). The **horizontal datum** was NAD 83 HARN, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey (NGS) website at http://www.ngs.noaa.gov or contact the NGS at the following address:

NGS Information Services
National Geodetic Survey, NOAA, N/NGS12
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Example Datum Offset Calculation
using datum offset table below
NAVD88 = NGVD29 + (datum offset value)

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713- 3242**, or visit its website at http://www.ngs.noaa.gov.

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This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

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Watershed	Datum Offset (ft)	Study Type	Total Rainfall Volume (in) 1 Day 100yr/500yr	5 Day 100yr/500yr	Date of Model
1. Ainger Creek	-1.08	Effective Transfer	NA	NA	NA
2. Alligator Creek	-1.08	Detailed	10.0	NA	10/21/2011
3. Big Slough	-1.12	Detailed	10.1	18.5**	5/22/2012
4. Bowlees Creek	-1.08	Effective Transfer	NA	NA	NA
5. Braden River	-1.08	Redelineation*	NA	NA	NA
6. Catfish Creek	-1.08	Effective Transfer	NA	NA	NA
7. Clower Creek	-1.08	Effective Transfer	NA	NA	NA
8. Cow Pen Slough	-1.08	Effective Transfer	NA	NA	NA
9. Deep Creek Gully	-1.08	Effective Transfer	NA	NA	NA
10. Deer Prairie Slough	-1.08	Redelineation*	NA	NA	NA
11. Dona/Roberts Bay Coastal	-1.08	Redelineation*	NA	NA	NA
12. Elligraw Bayou	-1.08	Effective Transfer	NA	NA	NA
13. Forked Creek	-1.08	Effective Transfer	NA	NA	NA
14. Gottfried Creek	-1.08	Effective Transfer	NA	NA	NA
15. Holiday Bayou	-1.08	Effective Transfer	NA	NA	NA
16. Hudson Bayou	-1.08	Detailed	10.0	NA	2/18/2011
17. Island of Venice	-1.08	Detailed	10.0	NA	11/4/2011
18. Lemon Bay Coastal	-1.08	Redelineation*	NA	NA	NA
19. Little Salt Creek	-1.08	Redelineation*	NA	NA	NA
20. Little Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
21. Lyons Bay	-1.08	Redelineation*	NA	NA	NA
22. Matheny Creek	-1.08	Redelineation*	NA	NA	NA
23. Myakka River	-1.08	Approximate Study	NA	NA	NA
24. North Creek	-1.08	Effective Transfer	NA	NA	NA
25. Oyster Creek	-1.08	Effective Transfer	NA	NA	NA
26. Phillippi Creek	-1.08	Redelineation*	NA	NA	NA
27. Roberts Bay	-1.08	Detailed	10.0	NA	5/24/2012
28. Roberts Bay North Coastal	-1.08	Redelineation*	NA	NA	NA
29. Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
30. South Creek	-1.08	Effective Transfer	NA	NA	NA
31. Whitaker Bayou	-1.08	Detailed	10.0	NA	7/27/2011
32. Woodmere Creek	-1.08	Effective Transfer	NA	NA	NA

* Redelineation performed for coastal flood zones ** For channel along Myakkahatchee Creek only

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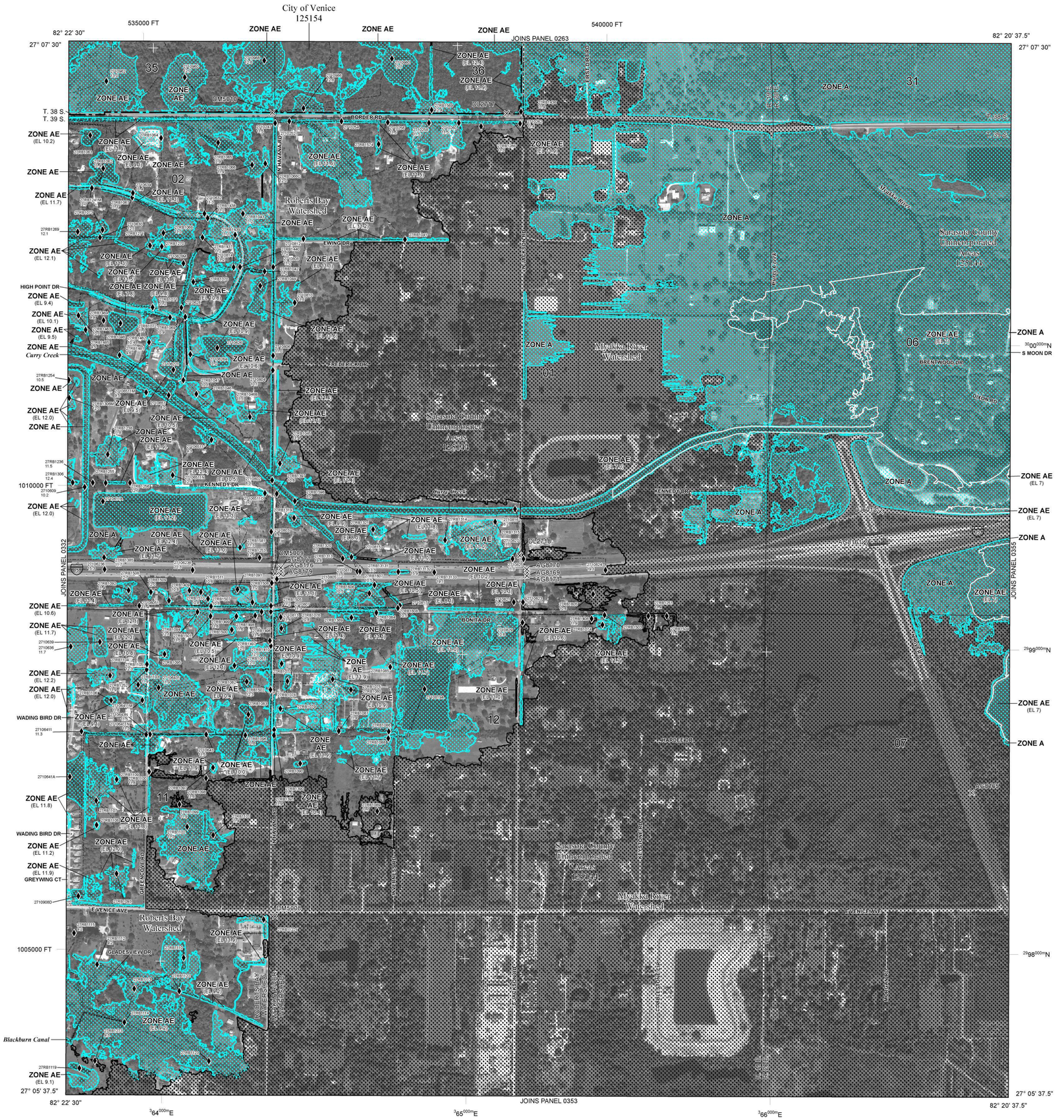

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	1% Annual Chance Floodplain Boundary
	0.2% Annual Chance Floodplain Boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
513	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

A — A	Cross section line
23 — 23	Transect line
45° 02' 08", 93° 02' 12"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
3100000 FT	5000-foot ticks: Florida State Plane West Zone (FIPS Zone 0902), Transverse Mercator projection
$^{49}89^{000m}$N	1000-meter Universal Transverse Mercator grid values, zone 17
DX5510 ×	Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5	River Mile
7NX1000	Junction – Points defining locations of flow accumulation or hydralic connectivity. The first two characters of the Junction name represents the specific watershed (as shown in the map collar locator map) in which the Junction is located (note that boundary Junctions, without an associated floodplain, are also shown).
	Hydraulic Connectivity - Flow pathway between junctions.

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
NOVEMBER 4, 2016

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'
250 0 500 1000 FEET
150 0 150 300 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0351F

FIRM

FLOOD INSURANCE RATE MAP

SARASOTA COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 351 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SARASOTA COUNTY	125144	0351	F
VENICE, CITY OF	125154	0351	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER 12115C0351F
EFFECTIVE DATE NOVEMBER 4, 2016

Federal Emergency Management Agency

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4. Bowlees Creek	-1.08	Effective Transfer	NA	NA	NA
5. Braden River	-1.08	Redelineation*	NA	NA	NA
6. Catfish Creek	-1.08	Effective Transfer	NA	NA	NA
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11. Dona/Roberts Bay Coastal	-1.08	Redelineation*	NA	NA	NA
12. Elligraw Bayou	-1.08	Effective Transfer	NA	NA	NA
13. Forked Creek	-1.08	Effective Transfer	NA	NA	NA
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17. Island of Venice	-1.08	Detailed	10.0	NA	11/4/2011
18. Lemon Bay Coastal	-1.08	Redelineation*	NA	NA	NA
19. Little Salt Creek	-1.08	Redelineation*	NA	NA	NA
20. Little Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
21. Lyons Bay	-1.08	Redelineation*	NA	NA	NA
22. Matheny Creek	-1.08	Redelineation*	NA	NA	NA
23. Myakka River	-1.08	Approximate Study	NA	NA	NA
24. North Creek	-1.08	Effective Transfer	NA	NA	NA
25. Oyster Creek	-1.08	Effective Transfer	NA	NA	NA
26. Philippi Creek	-1.08	Redelineation*	NA	NA	NA
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28. Roberts Bay North Coastal	-1.08	Redelineation*	NA	NA	NA
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Sarasota County

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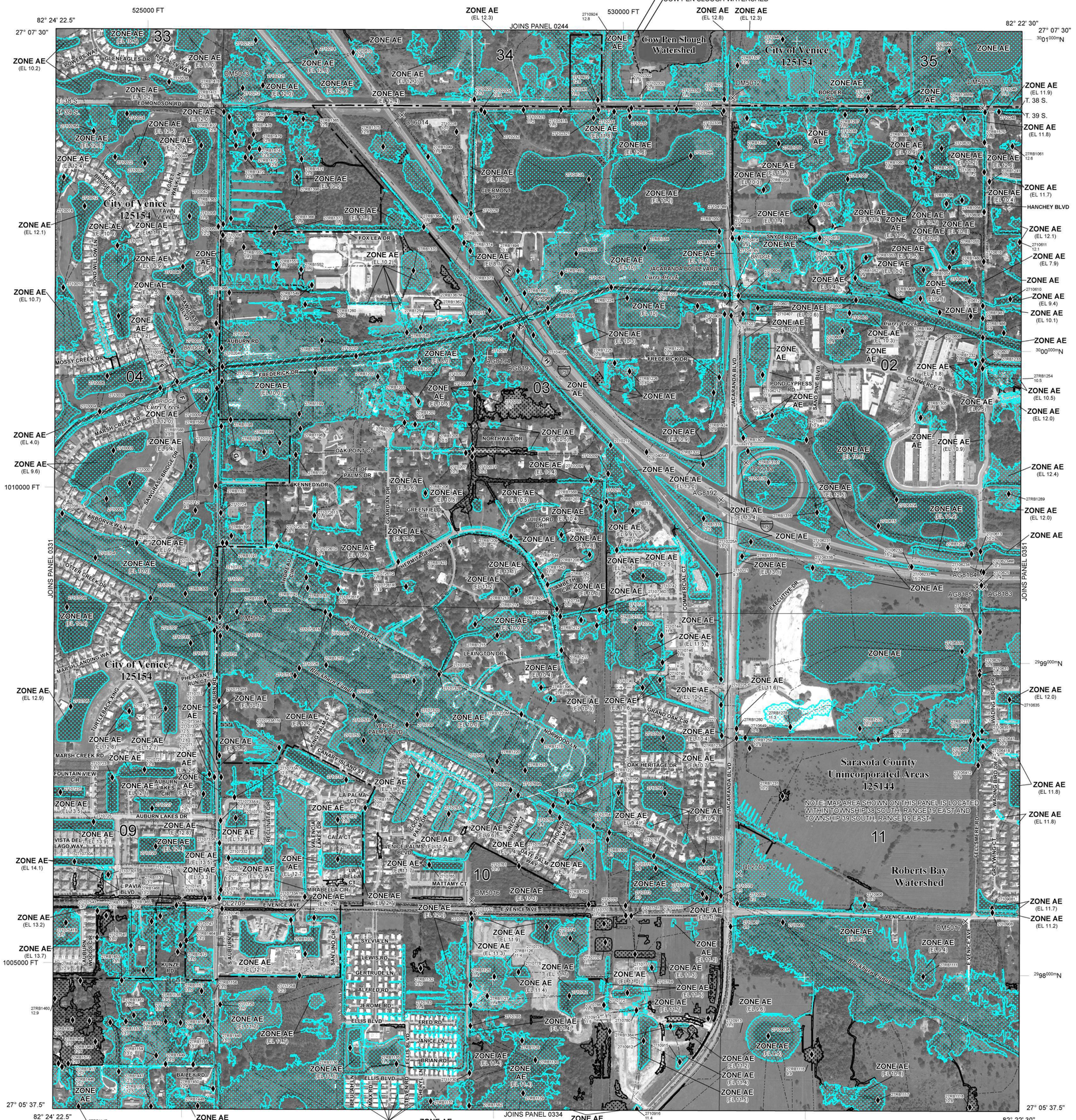

LEGEND

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ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
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ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
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COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

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- 1% Annual Chance Floodplain Boundary
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- Floodway boundary
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- 513 (EL 987) — Base Flood Elevation line and value; elevation in feet* / Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

- A — A: Cross section line
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- 4989000mN: 1000-meter Universal Transverse Mercator grid values, zone 17
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NOVEMBER 4, 2016

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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MAP SCALE 1" = 500'

250 0 500 1000 FEET
150 0 150 300 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0332F

FIRM

FLOOD INSURANCE RATE MAP

SARASOTA COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 332 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SARASOTA COUNTY	125144	0332	F
VENICE, CITY OF	125154	0332	F

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MAP NUMBER
12115C0332F
EFFECTIVE DATE
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Federal Emergency Management Agency

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Watershed	Datum Offset (ft)	Study Type	Total Rainfall Volume (in) 1 Day 100yr/500yr	5 Day 100yr/500yr	Date of Model
1. Ainger Creek	-1.08	Effective Transfer	NA	NA	NA
2. Alligator Creek	-1.08	Detailed	10.0	NA	10/21/2011
3. Big Slough	-1.12	Detailed	10.1	18.5**	5/22/2012
4. Bowlees Creek	-1.08	Effective Transfer	NA	NA	NA
5. Braden River	-1.08	Redelineation*	NA	NA	NA
6. Catfish Creek	-1.08	Effective Transfer	NA	NA	NA
7. Clower Creek	-1.08	Effective Transfer	NA	NA	NA
8. Cow Pen Slough	-1.08	Effective Transfer	NA	NA	NA
9. Deep Creek Gully	-1.08	Effective Transfer	NA	NA	NA
10. Deer Prairie Slough	-1.08	Redelineation*	NA	NA	NA
11. Dona/Roberts Bay Coastal	-1.08	Redelineation*	NA	NA	NA
12. Elligraw Bayou	-1.08	Effective Transfer	NA	NA	NA
13. Forked Creek	-1.08	Effective Transfer	NA	NA	NA
14. Gottfried Creek	-1.08	Effective Transfer	NA	NA	NA
15. Holiday Bayou	-1.08	Effective Transfer	NA	NA	NA
16. Hudson Bayou	-1.08	Detailed	10.0	NA	2/18/2011
17. Island of Venice	-1.08	Detailed	10.0	NA	11/4/2011
18. Lemon Bay Coastal	-1.08	Redelineation*	NA	NA	NA
19. Little Salt Creek	-1.08	Redelineation*	NA	NA	NA
20. Little Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
21. Lyons Bay	-1.08	Redelineation*	NA	NA	NA
22. Matheny Creek	-1.08	Redelineation*	NA	NA	NA
23. Myakka River	-1.08	Approximate Study	NA	NA	NA
24. North Creek	-1.08	Effective Transfer	NA	NA	NA
25. Oyster Creek	-1.08	Effective Transfer	NA	NA	NA
26. Philippi Creek	-1.08	Redelineation*	NA	NA	NA
27. Roberts Bay	-1.08	Detailed	10.0	NA	5/24/2012
28. Roberts Bay North Coastal	-1.08	Redelineation*	NA	NA	NA
29. Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
30. South Creek	-1.08	Effective Transfer	NA	NA	NA
31. Whitaker Bayou	-1.08	Detailed	10.0	NA	7/27/2011
32. Woodmere Creek	-1.08	Effective Transfer	NA	NA	NA

* Redelineation performed for coastal flood zones ** For channel along Myakkahatchee Creek only

Sarasota County

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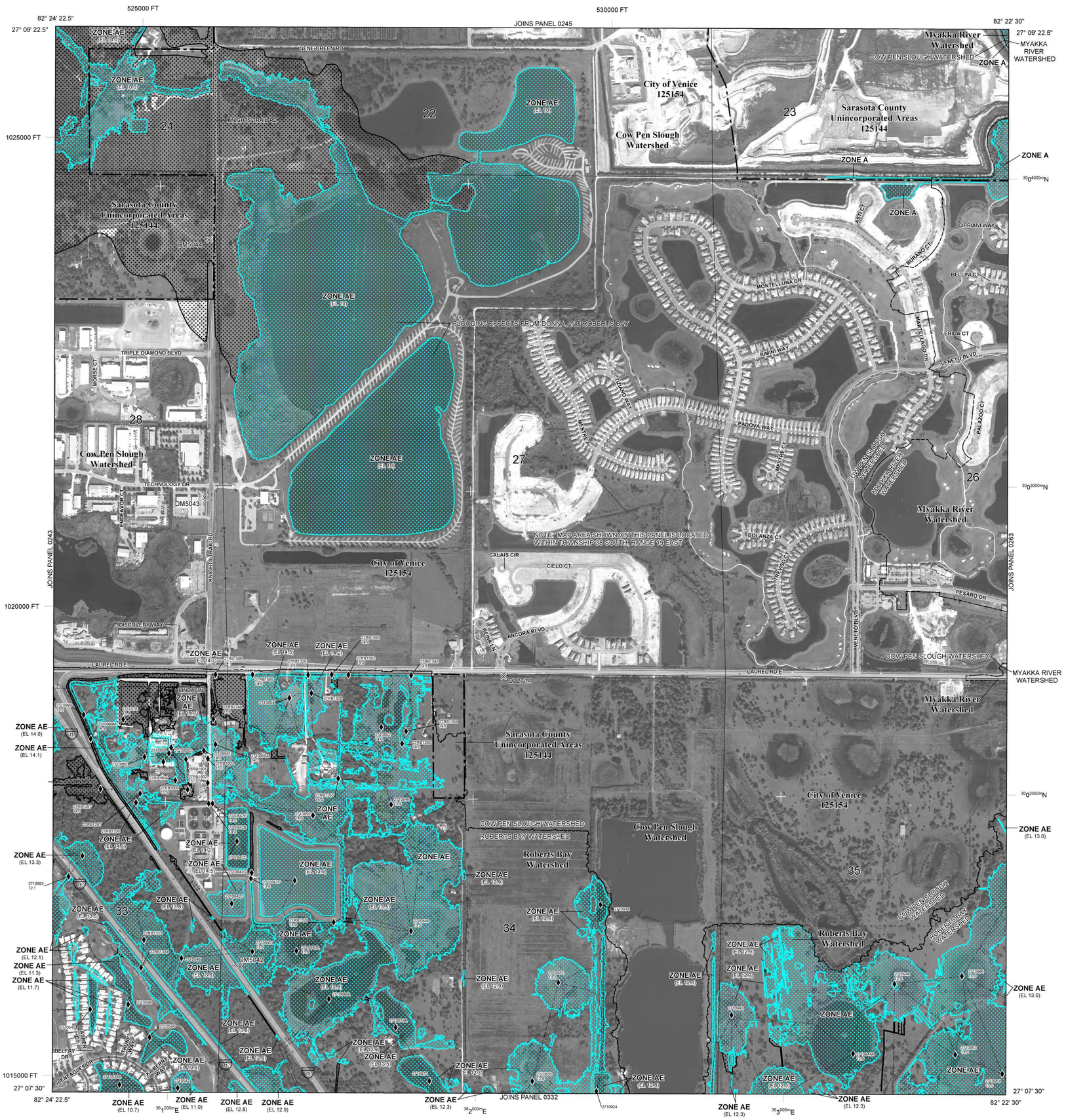

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% Annual Chance Floodplain Boundary
- 0.2% Annual Chance Floodplain Boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 23 — 23 — Transect line
- 45° 02' 08", 93° 02' 12" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
- 3100000 FT — 5000-foot ticks: Florida State Plane West Zone (FIPS Zone 0902), Transverse Mercator projection
- 4989000m N — 1000-meter Universal Transverse Mercator grid values, zone 17
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile
- 7NX1000 — Junction – Points defining locations of flow accumulation or hydralic connectivity. The first two characters of the Junction name represents the specific watershed (as shown in the map collar locator map) in which the Junction is located (note that boundary Junctions, without an associated floodplain, are also shown).
- Hydraulic Connectivity - Flow pathway between junctions.

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
NOVEMBER 4, 2016

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 500 1000 FEET
150 0 150 300 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0244F

FIRM

FLOOD INSURANCE RATE MAP

SARASOTA COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 244 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SARASOTA COUNTY	125144	0244	F
VENICE, CITY OF	125154	0244	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER 12115C0244F
EFFECTIVE DATE NOVEMBER 4, 2016

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Florida State Plane West Zone (FIPS zone 0902). The **horizontal datum** was NAD 83 HARN, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey (NGS) website at http://www.ngs.noaa.gov or contact the NGS at the following address:

NGS Information Services
National Geodetic Survey, NOAA, N/NGS12
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Example Datum Offset Calculation
using datum offset table below
NAVD88 = NGVD29 + (datum offset value)

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713- 3242**, or visit its website at http://www.ngs.noaa.gov.

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Watershed	Datum Offset (ft)	Study Type	Total Rainfall Volume (in) 1 Day 100yr/500yr	5 Day 100yr/500yr	Date of Model
1. Ainger Creek	-1.08	Effective Transfer	NA	NA	NA
2. Alligator Creek	-1.08	Detailed	10.0	NA	10/21/2011
3. Big Slough	-1.12	Detailed	10.1	18.5**	5/22/2012
4. Bowlees Creek	-1.08	Effective Transfer	NA	NA	NA
5. Braden River	-1.08	Redelineation*	NA	NA	NA
6. Catfish Creek	-1.08	Effective Transfer	NA	NA	NA
7. Clower Creek	-1.08	Effective Transfer	NA	NA	NA
8. Cow Pen Slough	-1.08	Effective Transfer	NA	NA	NA
9. Deep Creek Gully	-1.08	Effective Transfer	NA	NA	NA
10. Deer Prairie Slough	-1.08	Redelineation*	NA	NA	NA
11. Dona/Roberts Bay Coastal	-1.08	Redelineation*	NA	NA	NA
12. Elligraw Bayou	-1.08	Effective Transfer	NA	NA	NA
13. Forked Creek	-1.08	Effective Transfer	NA	NA	NA
14. Gottfried Creek	-1.08	Effective Transfer	NA	NA	NA
15. Holiday Bayou	-1.08	Effective Transfer	NA	NA	NA
16. Hudson Bayou	-1.08	Detailed	10.0	NA	2/18/2011
17. Island of Venice	-1.08	Detailed	10.0	NA	11/4/2011
18. Lemon Bay Coastal	-1.08	Redelineation*	NA	NA	NA
19. Little Salt Creek	-1.08	Redelineation*	NA	NA	NA
20. Little Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
21. Lyons Bay	-1.08	Redelineation*	NA	NA	NA
22. Matheny Creek	-1.08	Redelineation*	NA	NA	NA
23. Myakka River	-1.08	Approximate Study	NA	NA	NA
24. North Creek	-1.08	Effective Transfer	NA	NA	NA
25. Oyster Creek	-1.08	Effective Transfer	NA	NA	NA
26. Phillippi Creek	-1.08	Redelineation*	NA	NA	NA
27. Roberts Bay	-1.08	Detailed	10.0	NA	5/24/2012
28. Roberts Bay North Coastal	-1.08	Redelineation*	NA	NA	NA
29. Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
30. South Creek	-1.08	Effective Transfer	NA	NA	NA
31. Whitaker Bayou	-1.08	Detailed	10.0	NA	7/27/2011
32. Woodmere Creek	-1.08	Effective Transfer	NA	NA	NA

* Redelineation performed for coastal flood zones ** For channel along Myakkahatchee Creek only

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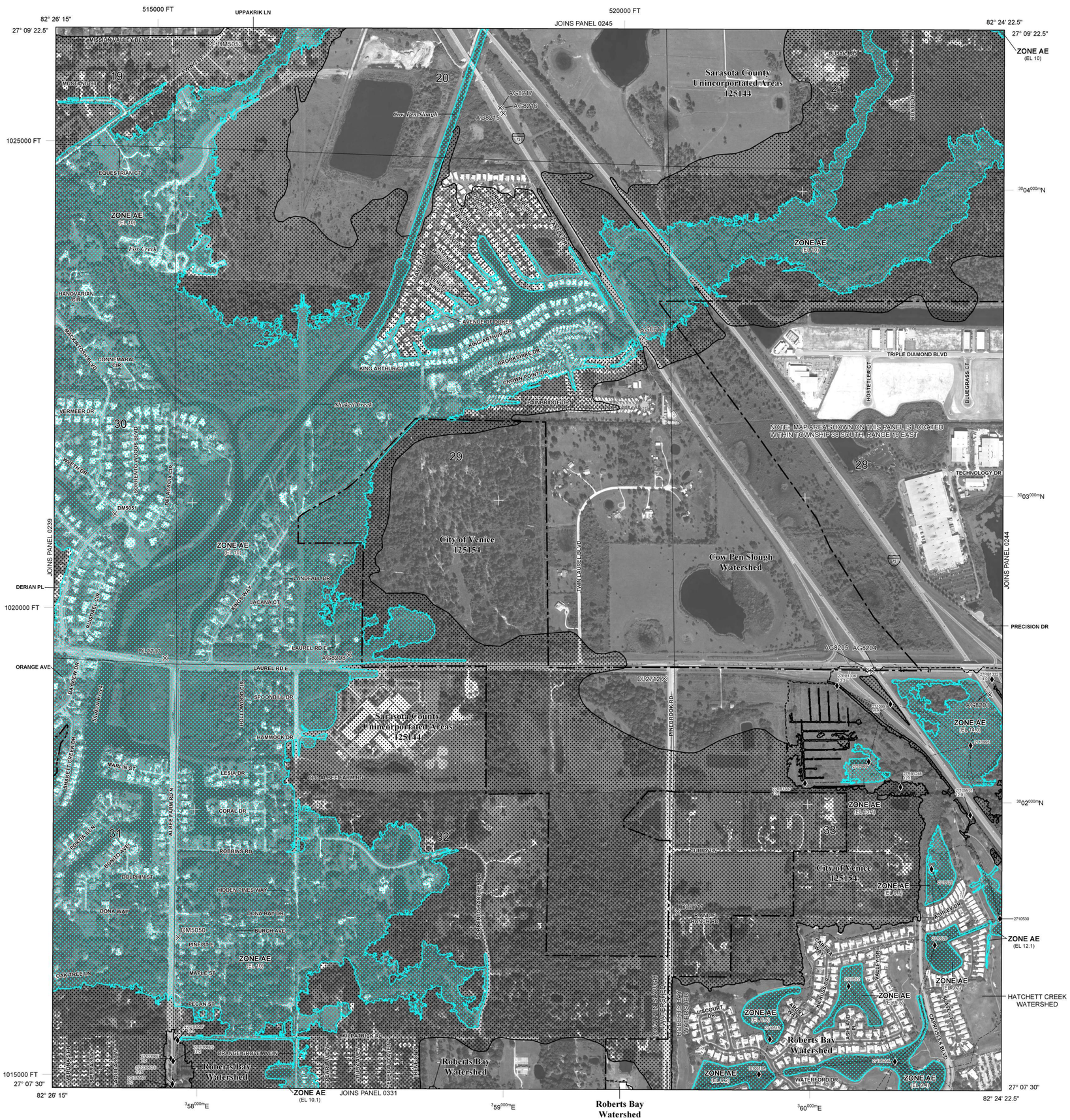

LEGEND

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ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	1% Annual Chance Floodplain Boundary
	0.2% Annual Chance Floodplain Boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
513	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

A — A	Cross section line
23 — 23	Transect line
45° 02' 08", 93° 02' 12"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
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$^{49}89^{000m}$ N	1000-meter Universal Transverse Mercator grid values, zone 17
DX5510 ×	Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5	River Mile
7NX1000	Junction – Points defining locations of flow accumulation or hydralic connectivity. The first two characters of the Junction name represents the specific watershed (as shown in the map collar locator map) in which the Junction is located (note that boundary Junctions, without an associated floodplain, are also shown).
	Hydraulic Connectivity - Flow pathway between junctions.

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
NOVEMBER 4, 2016

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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MAP SCALE 1" = 500'
250 0 500 1000 FEET
150 0 150 300 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0243F

FIRM

FLOOD INSURANCE RATE MAP

SARASOTA COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 243 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SARASOTA COUNTY	125144	0243	F
VENICE, CITY OF	125154	0243	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER 12115C0243F
EFFECTIVE DATE NOVEMBER 4, 2016

Federal Emergency Management Agency

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NGS Information Services
National Geodetic Survey, NOAA, N/NGS12
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Example Datum Offset Calculation
using datum offset table below
NAVD88 = NGVD29 + (datum offset value)

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Watershed	Datum Offset (ft)	Study Type	Total Rainfall Volume (in) 1 Day 100yr/500yr	5 Day 100yr/500yr	Date of Model
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2. Alligator Creek	-1.08	Detailed	10.0	NA	10/21/2011
3. Big Slough	-1.12	Detailed	10.1	18.5**	5/22/2012
4. Bowlees Creek	-1.08	Effective Transfer	NA	NA	NA
5. Braden River	-1.08	Redelineation*	NA	NA	NA
6. Catfish Creek	-1.08	Effective Transfer	NA	NA	NA
7. Clower Creek	-1.08	Effective Transfer	NA	NA	NA
8. Cow Pen Slough	-1.08	Effective Transfer	NA	NA	NA
9. Deep Creek Gully	-1.08	Effective Transfer	NA	NA	NA
10. Deer Prairie Slough	-1.08	Redelineation*	NA	NA	NA
11. Dona/Roberts Bay Coastal	-1.08	Redelineation*	NA	NA	NA
12. Elligraw Bayou	-1.08	Effective Transfer	NA	NA	NA
13. Forked Creek	-1.08	Effective Transfer	NA	NA	NA
14. Gottfried Creek	-1.08	Effective Transfer	NA	NA	NA
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16. Hudson Bayou	-1.08	Detailed	10.0	NA	2/18/2011
17. Island of Venice	-1.08	Detailed	10.0	NA	11/4/2011
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19. Little Salt Creek	-1.08	Redelineation*	NA	NA	NA
20. Little Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
21. Lyons Bay	-1.08	Redelineation*	NA	NA	NA
22. Matheny Creek	-1.08	Redelineation*	NA	NA	NA
23. Myakka River	-1.08	Approximate Study	NA	NA	NA
24. North Creek	-1.08	Effective Transfer	NA	NA	NA
25. Oyster Creek	-1.08	Effective Transfer	NA	NA	NA
26. Philippi Creek	-1.08	Redelineation*	NA	NA	NA
27. Roberts Bay	-1.08	Detailed	10.0	NA	5/24/2012
28. Roberts Bay North Coastal	-1.08	Redelineation*	NA	NA	NA
29. Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
30. South Creek	-1.08	Effective Transfer	NA	NA	NA
31. Whitaker Bayou	-1.08	Detailed	10.0	NA	7/27/2011
32. Woodmere Creek	-1.08	Effective Transfer	NA	NA	NA

* Redelineation performed for coastal flood zones ** For channel along Myakkahatchee Creek only

Sarasota County

This digital Flood Insurance Rate Map (FIRM) was produced through a cooperative partnership between the Southwest Florida Water Management District (SWFWMD), Sarasota County, Federal Emergency Management Agency (FEMA) and the associated communities within Sarasota County.

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% Annual Chance Floodplain Boundary
- 0.2% Annual Chance Floodplain Boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

- A–A — Cross section line
- 23–23 — Transect line
- 45° 02' 08", 93° 02' 12" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
- 3100000 FT — 5000-foot ticks: Florida State Plane West Zone (FIPS Zone 0902), Transverse Mercator projection
- 3089000mN — 1000-meter Universal Transverse Mercator grid values, zone 17
- DX5510 × — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile
- 7NX1000 — Junction – Points defining locations of flow accumulation or hydraulic connectivity. The first two characters of the Junction name represents the specific watershed (as shown in the map collar locator map) in which the Junction is located (note that boundary Junctions, without an associated floodplain, are also shown).
- Hydraulic Connectivity - Flow pathway between junctions.

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
NOVEMBER 4, 2016

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 1000'

500 0 1000 2000 FEET
300 0 300 600 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0245F

FIRM

FLOOD INSURANCE RATE MAP

SARASOTA COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 245 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SARASOTA COUNTY	125144	0245	F
VENICE, CITY OF	125154	0245	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER 12115C0245F

EFFECTIVE DATE NOVEMBER 4, 2016

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Florida State Plane West Zone (FIPS zone 0902). The **horizontal datum** was NAD 83 HARN, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey (NGS) website at http://www.ngs.noaa.gov or contact the NGS at the following address:

NGS Information Services
National Geodetic Survey, NOAA, N/NGS12
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Example Datum Offset Calculation
using datum offset table below
NAVD88 = NGVD29 + (datum offset value)

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713- 3242**, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the Southwest Florida Water Management District. This information was photogrammetrically compiled at a scale of 1:6,000 from aerial photography dated 2007 or later. For DFIRM production, the original imagery was converted to black-and-white.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map,** how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at **1-877-FEMA-MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.

Watershed	Datum Offset (ft)	Study Type	Total Rainfall Volume (in) 1 Day 100yr/500yr	5 Day 100yr/500yr	Date of Model
1. Ainger Creek	-1.08	Effective Transfer	NA	NA	NA
2. Alligator Creek	-1.08	Detailed	10.0	NA	10/21/2011
3. Big Slough	-1.12	Detailed	10.1	18.5**	5/22/2012
4. Bowlees Creek	-1.08	Effective Transfer	NA	NA	NA
5. Braden River	-1.08	Redelineation*	NA	NA	NA
6. Catfish Creek	-1.08	Effective Transfer	NA	NA	NA
7. Clower Creek	-1.08	Effective Transfer	NA	NA	NA
8. Cow Pen Slough	-1.08	Effective Transfer	NA	NA	NA
9. Deep Creek Gully	-1.08	Effective Transfer	NA	NA	NA
10. Deer Prairie Slough	-1.08	Redelineation*	NA	NA	NA
11. Dona/Roberts Bay Coastal	-1.08	Redelineation*	NA	NA	NA
12. Elligraw Bayou	-1.08	Effective Transfer	NA	NA	NA
13. Forked Creek	-1.08	Effective Transfer	NA	NA	NA
14. Gottfried Creek	-1.08	Effective Transfer	NA	NA	NA
15. Holiday Bayou	-1.08	Effective Transfer	NA	NA	NA
16. Hudson Bayou	-1.08	Detailed	10.0	NA	2/18/2011
17. Island of Venice	-1.08	Detailed	10.0	NA	11/4/2011
18. Lemon Bay Coastal	-1.08	Redelineation*	NA	NA	NA
19. Little Salt Creek	-1.08	Redelineation*	NA	NA	NA
20. Little Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
21. Lyons Bay	-1.08	Redelineation*	NA	NA	NA
22. Matheny Creek	-1.08	Redelineation*	NA	NA	NA
23. Myakka River	-1.08	Approximate Study	NA	NA	NA
24. North Creek	-1.08	Effective Transfer	NA	NA	NA
25. Oyster Creek	-1.08	Effective Transfer	NA	NA	NA
26. Phillippi Creek	-1.08	Redelineation*	NA	NA	NA
27. Roberts Bay	-1.08	Detailed	10.0	NA	5/24/2012
28. Roberts Bay North Coastal	-1.08	Redelineation*	NA	NA	NA
29. Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
30. South Creek	-1.08	Effective Transfer	NA	NA	NA
31. Whitaker Bayou	-1.08	Detailed	10.0	NA	7/27/2011
32. Woodmere Creek	-1.08	Effective Transfer	NA	NA	NA

* Redelineation performed for coastal flood zones ** For channel along Myakkahatchee Creek only

Sarasota County

This digital Flood Insurance Rate Map (FIRM) was produced through a cooperative partnership between the Southwest Florida Water Management District (SWFWMD), Sarasota County, Federal Emergency Management Agency (FEMA) and the associated communities within Sarasota County.


505000 FT
510000 FT
82° 28' 07.5"
82° 26' 15"
27° 13' 07.5"
27° 11' 15"
JOINS PANEL 0227
JOINS PANEL 0228
JOINS PANEL 0235
JOINS PANEL 0237
1045000 FT
1040000 FT
3311000mN
3310000mN
3309000mN
3555000mE
3556000mE
3557000mE
R. 18 E.
R. 19 E.
T. 37 S.
T. 38 S.
South Creek Watershed
North Creek Watershed
Sarasota County Unincorporated Areas 125144
NORTH CREEK WATERSHED
SOUTH CREEK WATERSHED
Cow Pen Slough Watershed
COW PEN SLOUGH WATERSHED
FLOODING EFFECTS FROM SARASOTA BAY
ZONE AE EL 10
COTE DU RHONE WAY
HONORE AVE
SAND LAKE CT
FOSSANO DR
ERNESTO DR
DORGALI DR
PARROS DR
GARESIO W
GUARNO DR
South Creek
DERMACO CT
ROSETO PL
MARIPOSA LN
BENEVENTO DR
HUNT CLUB WAY
ROCKY LAKE CT
WILMEE LOOP
BLOOMFIELD DR
OAK RIVER CT
PINE RANCH EAST RD
OAK BAY DR
OAK POND DR
E BAY ST
OAK BRIAR LN
WILLOW BEND WAY
PARK TRACE BLVD
GOLDENPOND CT
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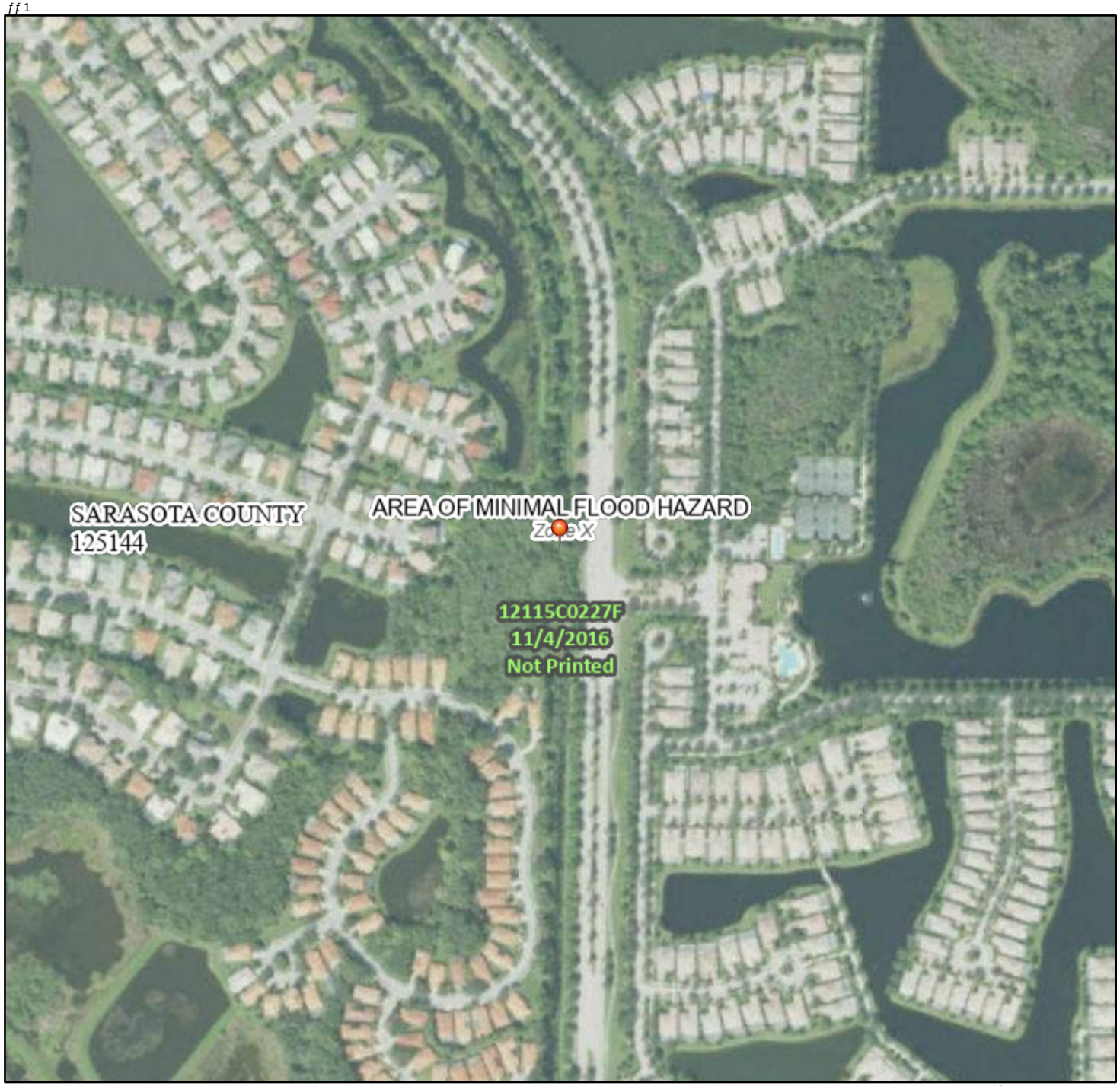

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%DVHPSS 86DWLRQDO 0DS 2UWKRLPDJHU\ DWHUHHHVKHGZRWEHU

NOTES TO USERS

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Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Florida State Plane West Zone (FIPS zone 0902). The **horizontal datum** was NAD 83 HARN, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey (NGS) website at http://www.ngs.noaa.gov or contact the NGS at the following address:

NGS Information Services
National Geodetic Survey, NOAA, N/NGS12
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Example Datum Offset Calculation
using datum offset table below
NAVD88 = NGVD29 + (datum offset value)

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713- 3242**, or visit its website at http://www.ngs.noaa.gov.

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This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

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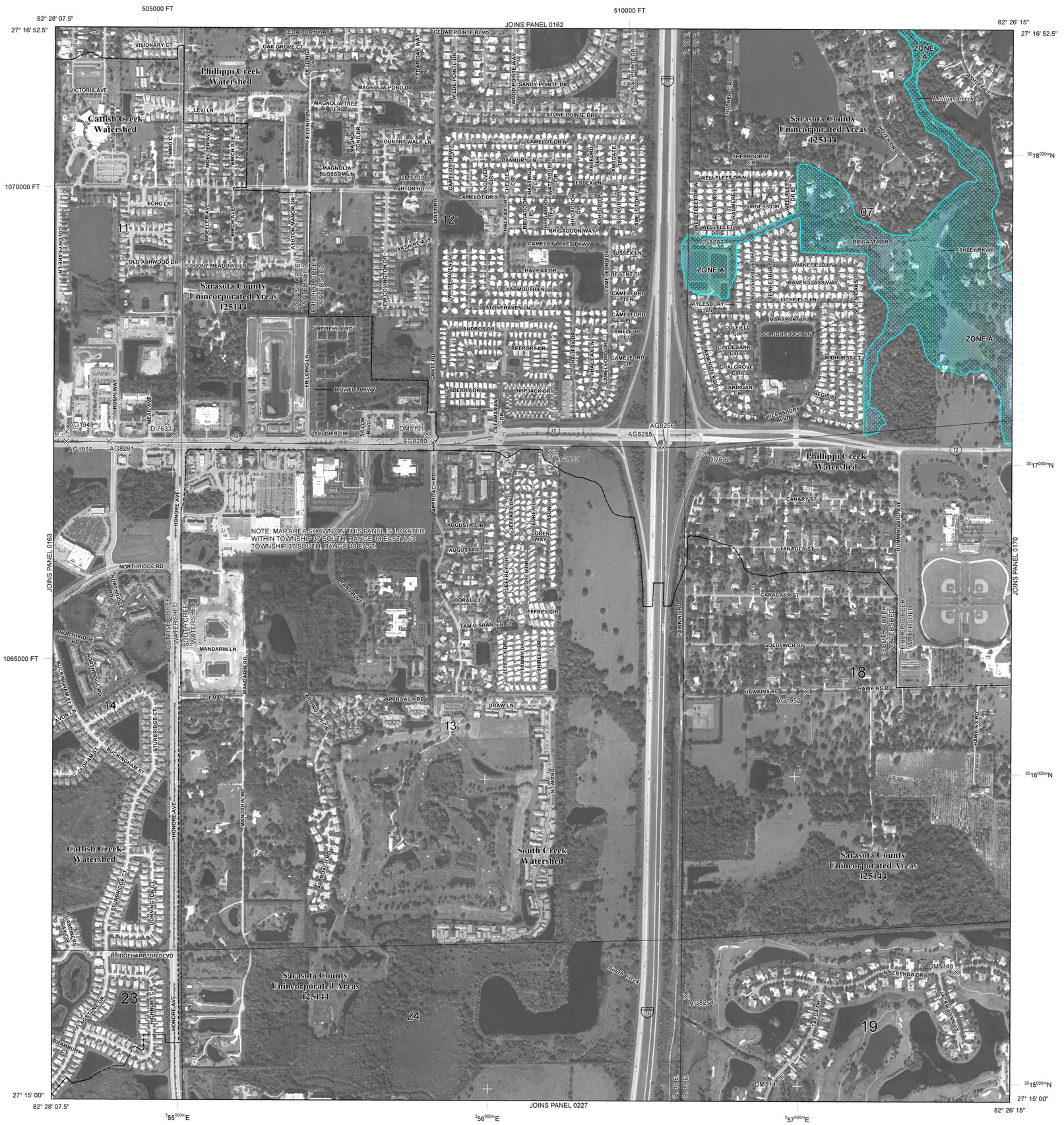
If you have **questions about this map,** how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at **1-877-FEMA-MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.

Watershed	Datum Offset (ft)	Study Type	Total Rainfall Volume (in) 1 Day 100yr/500yr	5 Day 100yr/500yr	Date of Model
1. Ainger Creek	-1.08	Effective Transfer	NA	NA	NA
2. Alligator Creek	-1.08	Detailed	10.0	NA	10/21/2011
3. Big Slough	-1.12	Detailed	10.1	18.5**	5/22/2012
4. Bowlees Creek	-1.08	Effective Transfer	NA	NA	NA
5. Braden River	-1.08	Redelineation*	NA	NA	NA
6. Catfish Creek	-1.08	Effective Transfer	NA	NA	NA
7. Clower Creek	-1.08	Effective Transfer	NA	NA	NA
8. Cow Pen Slough	-1.08	Effective Transfer	NA	NA	NA
9. Deep Creek Gully	-1.08	Effective Transfer	NA	NA	NA
10. Deer Prairie Slough	-1.08	Redelineation*	NA	NA	NA
11. Dona/Roberts Bay Coastal	-1.08	Redelineation*	NA	NA	NA
12. Elligraw Bayou	-1.08	Effective Transfer	NA	NA	NA
13. Forked Creek	-1.08	Effective Transfer	NA	NA	NA
14. Gottfried Creek	-1.08	Effective Transfer	NA	NA	NA
15. Holiday Bayou	-1.08	Effective Transfer	NA	NA	NA
16. Hudson Bayou	-1.08	Detailed	10.0	NA	2/18/2011
17. Island of Venice	-1.08	Detailed	10.0	NA	11/4/2011
18. Lemon Bay Coastal	-1.08	Redelineation*	NA	NA	NA
19. Little Salt Creek	-1.08	Redelineation*	NA	NA	NA
20. Little Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
21. Lyons Bay	-1.08	Redelineation*	NA	NA	NA
22. Matherly Creek	-1.08	Redelineation*	NA	NA	NA
23. Myakka River	-1.08	Approximate Study	NA	NA	NA
24. North Creek	-1.08	Effective Transfer	NA	NA	NA
25. Oyster Creek	-1.08	Effective Transfer	NA	NA	NA
26. Phillippi Creek	-1.08	Redelineation*	NA	NA	NA
27. Roberts Bay	-1.08	Detailed	10.0	NA	5/24/2012
28. Roberts Bay North Coastal	-1.08	Redelineation*	NA	NA	NA
29. Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
30. South Creek	-1.08	Effective Transfer	NA	NA	NA
31. Whitaker Bayou	-1.08	Detailed	10.0	NA	7/27/2011
32. Woodmere Creek	-1.08	Effective Transfer	NA	NA	NA

* Redelineation performed for coastal flood zones ** For channel along Myakkahatchee Creek only

Sarasota County

This digital Flood Insurance Rate Map (FIRM) was produced through a cooperative partnership between the Southwest Florida Water Management District (SWFWMD), Sarasota County, Federal Emergency Management Agency (FEMA) and the associated communities within Sarasota County.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% Annual Chance Floodplain Boundary
- 0.2% Annual Chance Floodplain Boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 23 — 23 — Transect line
- 45° 02' 08", 93° 02' 12" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
- 3100000 FT — 5000-foot ticks: Florida State Plane West Zone (FIPS Zone 0902), Transverse Mercator projection
- 4 89 000m N — 1000-meter Universal Transverse Mercator grid values, zone 17
- DX5510 × — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 • — River Mile
- 7NX1000 ♦ — Junction – Points defining locations of flow accumulation or hydralic connectivity. The first two characters of the Junction name represents the specific watershed (as shown in the map collar locator map) in which the Junction is located (note that boundary Junctions, without an associated floodplain, are also shown).
- Hydraulic Connectivity - Flow pathway between junctions.

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
NOVEMBER 4, 2016

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'
250 0 500 1000 FEET
150 0 150 300 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0164F

FIRM

FLOOD INSURANCE RATE MAP

SARASOTA COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 164 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SARASOTA COUNTY	125144	0164	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12115C0164F
EFFECTIVE DATE
NOVEMBER 4, 2016

Federal Emergency Management Agency

NOTES TO USERS

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Silver Spring, Maryland 20910-3282
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2. Alligator Creek	-1.08	Detailed	10.0	NA	10/21/2011
3. Big Slough	-1.12	Detailed	10.1	18.5**	5/22/2012
4. Bowlees Creek	-1.08	Effective Transfer	NA	NA	NA
5. Braden River	-1.08	Redelineation*	NA	NA	NA
6. Catfish Creek	-1.08	Effective Transfer	NA	NA	NA
7. Clower Creek	-1.08	Effective Transfer	NA	NA	NA
8. Cow Pen Slough	-1.08	Effective Transfer	NA	NA	NA
9. Deep Creek Gully	-1.08	Effective Transfer	NA	NA	NA
10. Deer Prairie Slough	-1.08	Redelineation*	NA	NA	NA
11. Dona/Roberts Bay Coastal	-1.08	Redelineation*	NA	NA	NA
12. Ellgraw Bayou	-1.08	Effective Transfer	NA	NA	NA
13. Forked Creek	-1.08	Effective Transfer	NA	NA	NA
14. Gottfried Creek	-1.08	Effective Transfer	NA	NA	NA
15. Holiday Bayou	-1.08	Effective Transfer	NA	NA	NA
16. Hudson Bayou	-1.08	Detailed	10.0	NA	2/18/2011
17. Island of Venice	-1.08	Detailed	10.0	NA	11/4/2011
18. Lemon Bay Coastal	-1.08	Redelineation*	NA	NA	NA
19. Little Salt Creek	-1.08	Redelineation*	NA	NA	NA
20. Little Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
21. Lyons Bay	-1.08	Redelineation*	NA	NA	NA
22. Matheny Creek	-1.08	Redelineation*	NA	NA	NA
23. Myakka River	-1.08	Approximate Study	NA	NA	NA
24. North Creek	-1.08	Effective Transfer	NA	NA	NA
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26. Phillippi Creek	-1.08	Redelineation*	NA	NA	NA
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* Redelineation performed for coastal flood zones ** For channel along Myakkahatchee Creek only

Sarasota County

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LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% Annual Chance Floodplain Boundary
- 0.2% Annual Chance Floodplain Boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
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- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

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- Hydraulic Connectivity - Flow pathway between junctions.

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
NOVEMBER 4, 2016

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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MAP SCALE 1" = 500'
250 0 500 1000 FEET
150 0 150 300 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0162F

FIRM

FLOOD INSURANCE RATE MAP

SARASOTA COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 162 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SARASOTA COUNTY	125144	0162	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12115C0162F
EFFECTIVE DATE
NOVEMBER 4, 2016

Federal Emergency Management Agency

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Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Florida State Plane West Zone (FIPS zone 0902). The **horizontal datum** was NAD 83 HARN, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey (NGS) website at http://www.ngs.noaa.gov or contact the NGS at the following address:

NGS Information Services
National Geodetic Survey, NOAA, N/NGS12
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Example Datum Offset Calculation
using datum offset table below
NAVD88 = NGVD29 + (datum offset value)

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713- 3242**, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the Southwest Florida Water Management District. This information was photogrammetrically compiled at a scale of 1:6,000 from aerial photography dated 2007 or later. For DFIRM production, the original imagery was converted to black-and-white.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

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For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

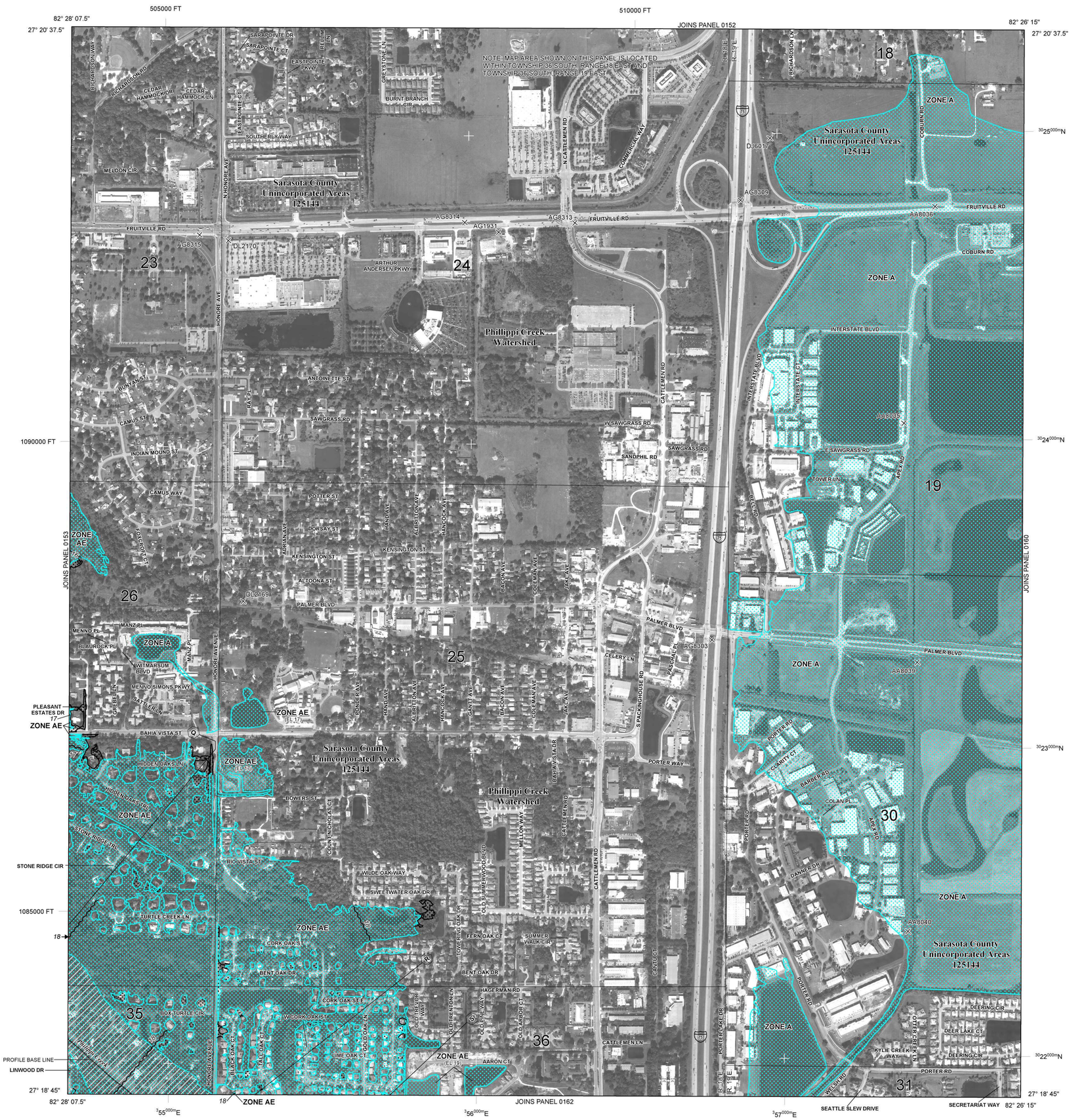
If you have **questions about this map,** how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at **1-877-FEMA-MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.

Watershed	Datum Offset (ft)	Study Type	Total Rainfall Volume (in) 1 Day 100yr/500yr	5 Day 100yr/500yr	Date of Model
1. Ainger Creek	-1.08	Effective Transfer	NA	NA	NA
2. Alligator Creek	-1.08	Detailed	10.0	NA	10/21/2011
3. Big Slough	-1.12	Detailed	10.1	18.5**	5/22/2012
4. Bowlees Creek	-1.08	Effective Transfer	NA	NA	NA
5. Braden River	-1.08	Redelineation*	NA	NA	NA
6. Catfish Creek	-1.08	Effective Transfer	NA	NA	NA
7. Clower Creek	-1.08	Effective Transfer	NA	NA	NA
8. Cow Pen Slough	-1.08	Effective Transfer	NA	NA	NA
9. Deep Creek Gully	-1.08	Effective Transfer	NA	NA	NA
10. Deer Prairie Slough	-1.08	Redelineation*	NA	NA	NA
11. Dona/Roberts Bay Coastal	-1.08	Redelineation*	NA	NA	NA
12. Elligraw Bayou	-1.08	Effective Transfer	NA	NA	NA
13. Forked Creek	-1.08	Effective Transfer	NA	NA	NA
14. Gottfried Creek	-1.08	Effective Transfer	NA	NA	NA
15. Holiday Bayou	-1.08	Effective Transfer	NA	NA	NA
16. Hudson Bayou	-1.08	Detailed	10.0	NA	2/18/2011
17. Island of Venice	-1.08	Detailed	10.0	NA	11/4/2011
18. Lemon Bay Coastal	-1.08	Redelineation*	NA	NA	NA
19. Little Salt Creek	-1.08	Redelineation*	NA	NA	NA
20. Little Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
21. Lyons Bay	-1.08	Redelineation*	NA	NA	NA
22. Matheny Creek	-1.08	Redelineation*	NA	NA	NA
23. Myakka River	-1.08	Approximate Study	NA	NA	NA
24. North Creek	-1.08	Effective Transfer	NA	NA	NA
25. Oyster Creek	-1.08	Effective Transfer	NA	NA	NA
26. Phillippi Creek	-1.08	Redelineation*	NA	NA	NA
27. Roberts Bay	-1.08	Detailed	10.0	NA	5/24/2012
28. Roberts Bay North Coastal	-1.08	Redelineation*	NA	NA	NA
29. Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
30. South Creek	-1.08	Effective Transfer	NA	NA	NA
31. Whitaker Bayou	-1.08	Detailed	10.0	NA	7/27/2011
32. Woodmere Creek	-1.08	Effective Transfer	NA	NA	NA

* Redelineation performed for coastal flood zones ** For channel along Myakkahatchee Creek only

Sarasota County

This digital Flood Insurance Rate Map (FIRM) was produced through a cooperative partnership between the Southwest Florida Water Management District (SWFWMD), Sarasota County, Federal Emergency Management Agency (FEMA) and the associated communities within Sarasota County.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% Annual Chance Floodplain Boundary
- 0.2% Annual Chance Floodplain Boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 23 — 23 — Transect line
- 45° 02' 08", 93° 02' 12" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
- 3100000 FT — 5000-foot ticks: Florida State Plane West Zone (FIPS Zone 0902), Transverse Mercator projection
- 4989000mN — 1000-meter Universal Transverse Mercator grid values, zone 17
- DX5510 × — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile
- 7NX1000 — Junction – Points defining locations of flow accumulation or hydraulic connectivity. The first two characters of the Junction name represents the specific watershed (as shown in the map collar locator map) in which the Junction is located (note that boundary Junctions, without an associated floodplain, are also shown).
- Hydraulic Connectivity - Flow pathway between junctions.

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
NOVEMBER 4, 2016

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 500 1000 FEET
150 0 150 300 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0154F

FIRM

FLOOD INSURANCE RATE MAP

SARASOTA COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 154 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SARASOTA COUNTY	125144	0154	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER 12115C0154F

EFFECTIVE DATE NOVEMBER 4, 2016

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Florida State Plane West Zone (FIPS zone 0902). The **horizontal datum** was NAD 83 HARN, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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NGS Information Services
National Geodetic Survey, NOAA, N/NGS12
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Example Datum Offset Calculation
using datum offset table below
NAVD88 = NGVD29 + (datum offset value)

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713- 3242**, or visit its website at http://www.ngs.noaa.gov.

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This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

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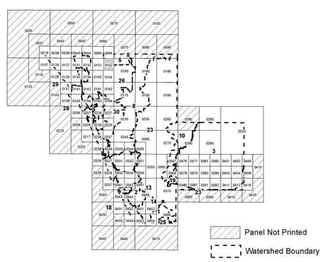

Watershed	Datum Offset (ft)	Study Type	Total Rainfall Volume (in) 1 Day 100yr/500yr	5 Day 100yr/500yr	Date of Model
1. Ainger Creek	-1.08	Effective Transfer	NA	NA	NA
2. Alligator Creek	-1.08	Detailed	10.0	NA	10/21/2011
3. Big Slough	-1.12	Detailed	10.1	18.5**	5/22/2012
4. Bowlees Creek	-1.08	Effective Transfer	NA	NA	NA
5. Braden River	-1.08	Redelineation*	NA	NA	NA
6. Catfish Creek	-1.08	Effective Transfer	NA	NA	NA
7. Clower Creek	-1.08	Effective Transfer	NA	NA	NA
8. Cow Pen Slough	-1.08	Effective Transfer	NA	NA	NA
9. Deep Creek Gully	-1.08	Effective Transfer	NA	NA	NA
10. Deer Prairie Slough	-1.08	Redelineation*	NA	NA	NA
11. Dona/Roberts Bay Coastal	-1.08	Redelineation*	NA	NA	NA
12. Ellgraw Bayou	-1.08	Effective Transfer	NA	NA	NA
13. Forked Creek	-1.08	Effective Transfer	NA	NA	NA
14. Gottfried Creek	-1.08	Effective Transfer	NA	NA	NA
15. Holiday Bayou	-1.08	Effective Transfer	NA	NA	NA
16. Hudson Bayou	-1.08	Detailed	10.0	NA	2/18/2011
17. Island of Venice	-1.08	Detailed	10.0	NA	11/4/2011
18. Lemon Bay Coastal	-1.08	Redelineation*	NA	NA	NA
19. Little Salt Creek	-1.08	Redelineation*	NA	NA	NA
20. Little Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
21. Lyons Bay	-1.08	Redelineation*	NA	NA	NA
22. Matheny Creek	-1.08	Redelineation*	NA	NA	NA
23. Myakka River	-1.08	Approximate Study	NA	NA	NA
24. North Creek	-1.08	Effective Transfer	NA	NA	NA
25. Oyster Creek	-1.08	Effective Transfer	NA	NA	NA
26. Phillippi Creek	-1.08	Redelineation*	NA	NA	NA
27. Roberts Bay	-1.08	Detailed	10.0	NA	5/24/2012
28. Roberts Bay North Coastal	-1.08	Redelineation*	NA	NA	NA
29. Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
30. South Creek	-1.08	Effective Transfer	NA	NA	NA
31. Whitaker Bayou	-1.08	Detailed	10.0	NA	7/27/2011
32. Woodmere Creek	-1.08	Effective Transfer	NA	NA	NA

*Redelineation performed for coastal flood zones ** For channel along Myakkahatchee Creek only

Sarasota County

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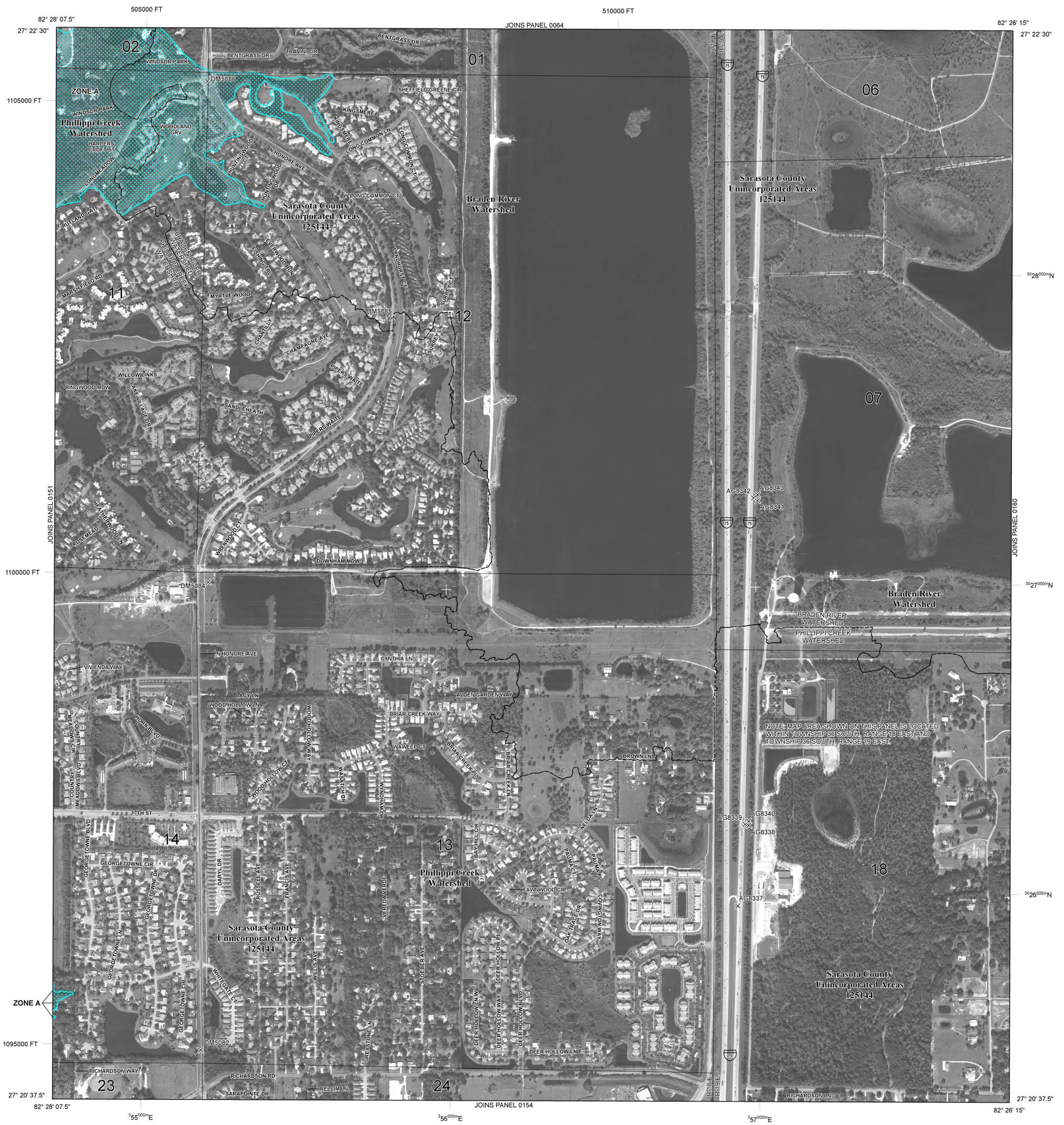

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	1% Annual Chance Floodplain Boundary
	0.2% Annual Chance Floodplain Boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
513	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

A — A	Cross section line
23 — 23	Transect line
45° 02' 08", 93° 02' 12"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
3100000 FT	5000-foot ticks: Florida State Plane West Zone (FIPS Zone 0902), Transverse Mercator projection
$^{49}89^{000m}$N	1000-meter Universal Transverse Mercator grid values, zone 17
DX5510 ×	Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5	River Mile
7NX1000 ♦	Junction – Points defining locations of flow accumulation or hydralic connectivity. The first two characters of the Junction name represents the specific watershed (as shown in the map collar locator map) in which the Junction is located (note that boundary Junctions, without an associated floodplain, are also shown).
	Hydraulic Connectivity - Flow pathway between junctions.

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
NOVEMBER 4, 2016

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

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MAP SCALE 1" = 500'
250 0 500 1000 FEET
150 0 150 300 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0152F

FIRM
FLOOD INSURANCE RATE MAP
SARASOTA COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 152 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SARASOTA COUNTY	125144	0152	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12115C0152F
EFFECTIVE DATE
NOVEMBER 4, 2016

Federal Emergency Management Agency

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NGS Information Services
National Geodetic Survey, NOAA, N/NGS12
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Example Datum Offset Calculation
using datum offset table below
NAVD88 = NGVD29 + (datum offset value)

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Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

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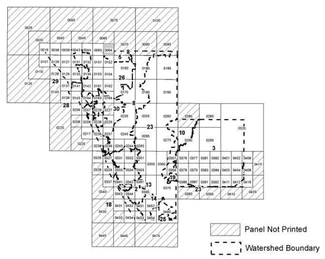
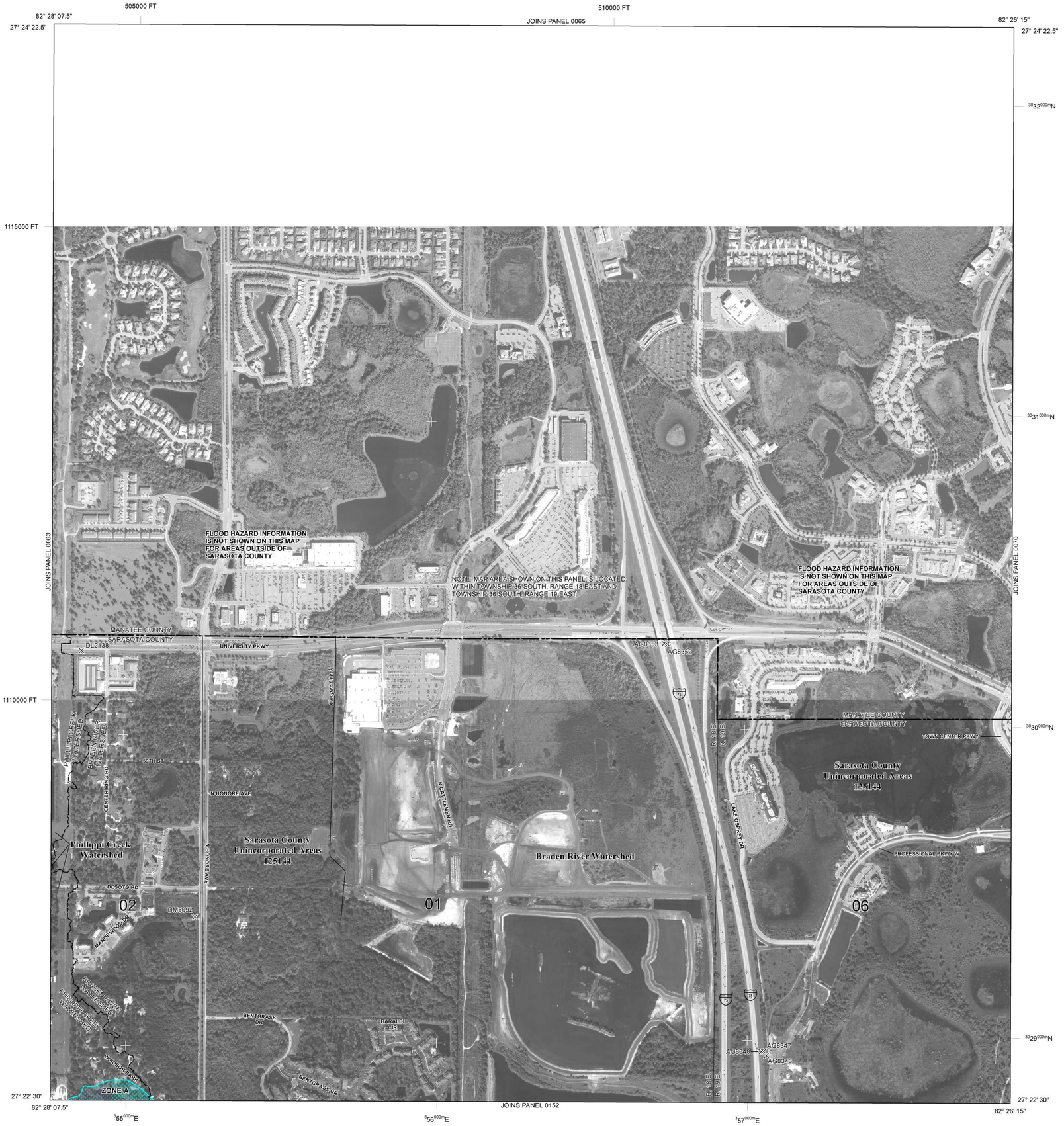


Watershed	Datum Offset (ft)	Study Type	Total Rainfall Volume (in) 1 Day 100yr/500yr	5 Day 100yr/500yr	Date of Model
1. Ainger Creek	-1.08	Effective Transfer	NA	NA	NA
2. Alligator Creek	-1.08	Detailed	10.0	NA	10/21/2011
3. Big Slough	-1.12	Detailed	10.1	18.5**	5/22/2012
4. Bowlees Creek	-1.08	Effective Transfer	NA	NA	NA
5. Braden River	-1.08	Redelineation*	NA	NA	NA
6. Catfish Creek	-1.08	Effective Transfer	NA	NA	NA
7. Clower Creek	-1.08	Effective Transfer	NA	NA	NA
8. Cow Pen Slough	-1.08	Effective Transfer	NA	NA	NA
9. Deep Creek Gully	-1.08	Effective Transfer	NA	NA	NA
10. Deer Prairie Slough	-1.08	Redelineation*	NA	NA	NA
11. Dona/Roberts Bay Coastal	-1.08	Redelineation*	NA	NA	NA
12. Ellgraw Bayou	-1.08	Effective Transfer	NA	NA	NA
13. Forked Creek	-1.08	Effective Transfer	NA	NA	NA
14. Gottfried Creek	-1.08	Effective Transfer	NA	NA	NA
15. Holiday Bayou	-1.08	Effective Transfer	NA	NA	NA
16. Hudson Bayou	-1.08	Detailed	10.0	NA	2/18/2011
17. Island of Venice	-1.08	Detailed	10.0	NA	11/4/2011
18. Lemon Bay Coastal	-1.08	Redelineation*	NA	NA	NA
19. Little Salt Creek	-1.08	Redelineation*	NA	NA	NA
20. Little Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
21. Lyons Bay	-1.08	Redelineation*	NA	NA	NA
22. Matheny Creek	-1.08	Redelineation*	NA	NA	NA
23. Myakka River	-1.08	Approximate Study	NA	NA	NA
24. North Creek	-1.08	Effective Transfer	NA	NA	NA
25. Oyster Creek	-1.08	Effective Transfer	NA	NA	NA
26. Phillippi Creek	-1.08	Redelineation*	NA	NA	NA
27. Roberts Bay	-1.08	Detailed	10.0	NA	5/24/2012
28. Roberts Bay North Coastal	-1.08	Redelineation*	NA	NA	NA
29. Sarasota Bay Coastal	-1.08	Redelineation*	NA	NA	NA
30. South Creek	-1.08	Effective Transfer	NA	NA	NA
31. Whitaker Bayou	-1.08	Detailed	10.0	NA	7/27/2011
32. Woodmere Creek	-1.08	Effective Transfer	NA	NA	NA

*Redelineation performed for coastal flood zones ** For channel along Myakkahatchee Creek only

This digital Flood Insurance Rate Map (FIRM) was produced through a cooperative partnership between the Southwest Florida Water Management District (SWFWMD), Sarasota County, Federal Emergency Management Agency (FEMA) and the associated communities within Sarasota County.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	1% Annual Chance Floodplain Boundary
	0.2% Annual Chance Floodplain Boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
513	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

A — A	Cross section line
23 — 23	Transect line
45° 02' 08", 93° 02' 12"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
3100000 FT	5000-foot ticks: Florida State Plane West Zone (FIPS Zone 0902), Transverse Mercator projection
$^{49}89^{000m}$N	1000-meter Universal Transverse Mercator grid values, zone 17
DX5510 ×	Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5 7NX1000	River Mile
	Junction – Points defining locations of flow accumulation or hydraulic connectivity. The first two characters of the Junction name represents the specific watershed (as shown in the map collar locator map) in which the Junction is located (note that boundary Junctions, without an associated floodplain, are also shown).
	Hydraulic Connectivity - Flow pathway between junctions.

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
NOVEMBER 4, 2016

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'
250 0 500 1000 FEET
150 0 150 300 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0064F

FIRM
FLOOD INSURANCE RATE MAP
SARASOTA COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 64 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

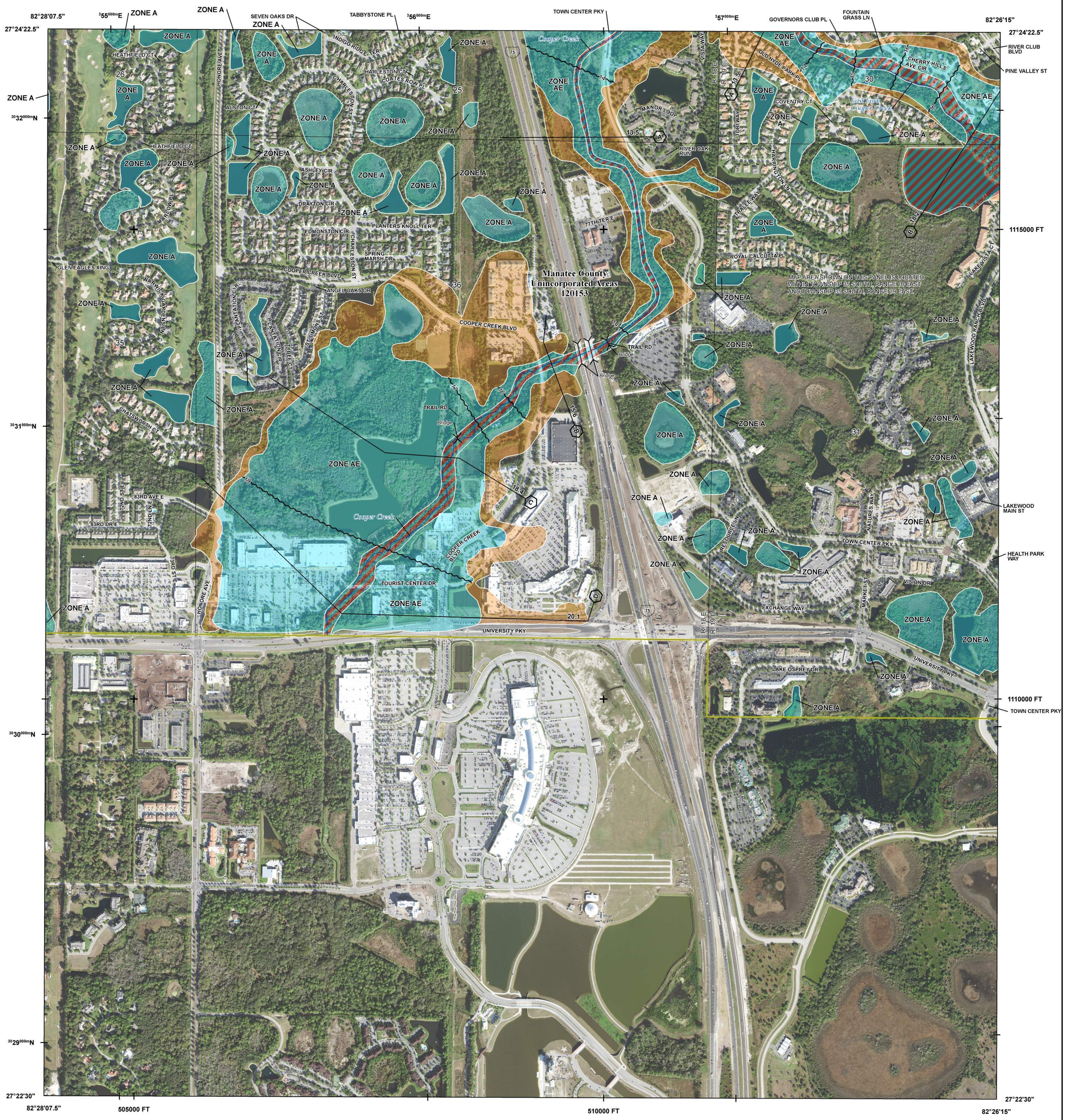
CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SARASOTA COUNTY	125144	0064	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12115C0064F
EFFECTIVE DATE
NOVEMBER 4, 2016

Federal Emergency Management Agency



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

HTTPS://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) *Zone A,V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
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- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS

- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- E (18.2 / 17.5) — Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 — Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 — Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

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SCALE

N

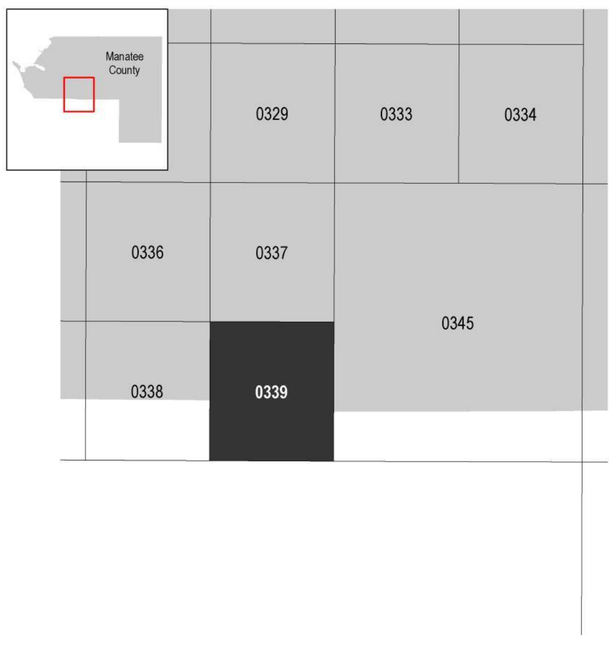
Map Projection:
State Plane Transverse Mercator, Florida West Zone 0902; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 750 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR



FEMA

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

MANATEE COUNTY, FLORIDA
and Incorporated Areas

PANEL 339 OF 575

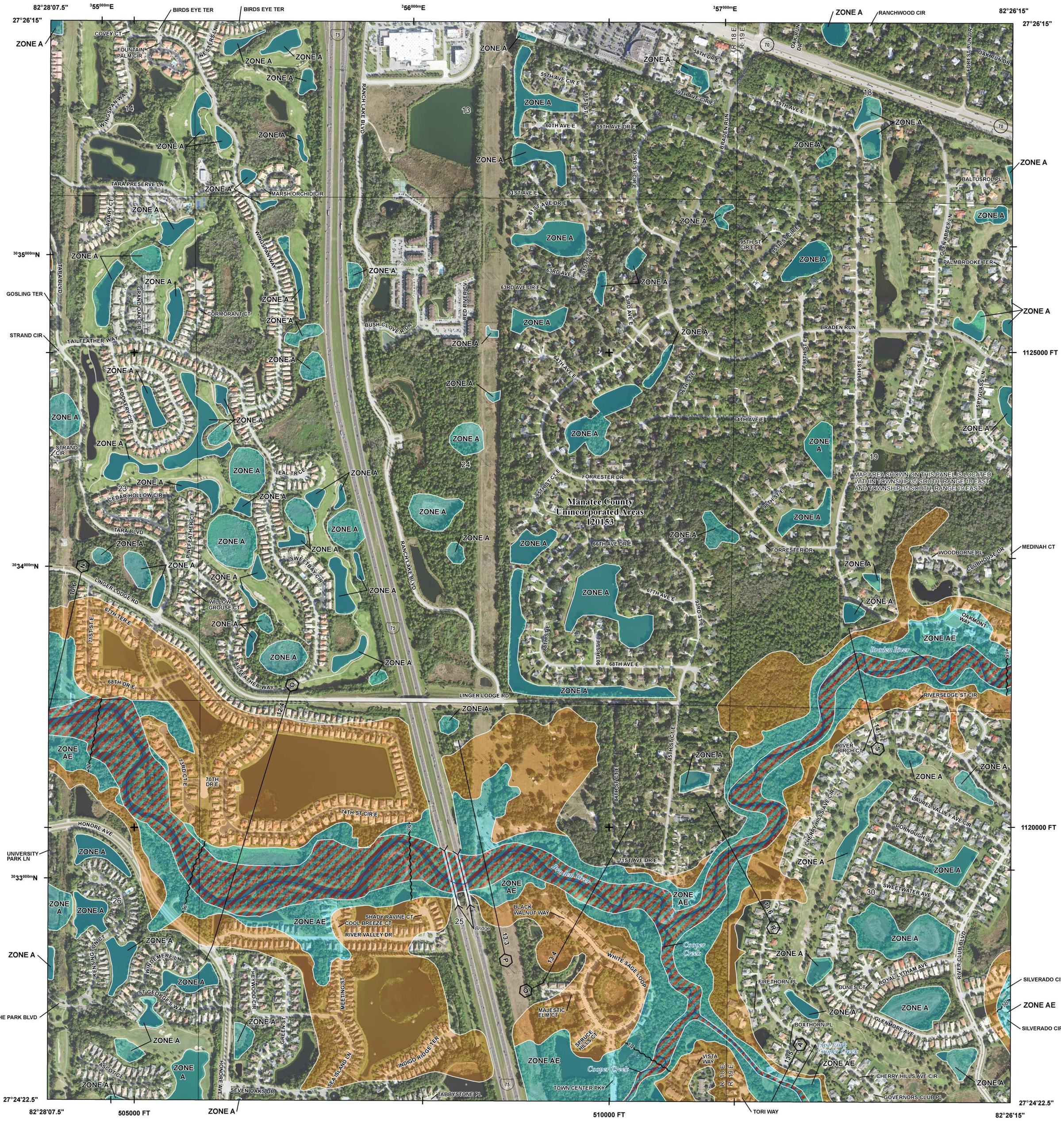
Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
MANATEE COUNTY	120153	0339	F

VERSION NUMBER
2.4.3.2

MAP NUMBER
12081C0339F

MAP REVISED
AUGUST 10, 2021



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SCALE

N

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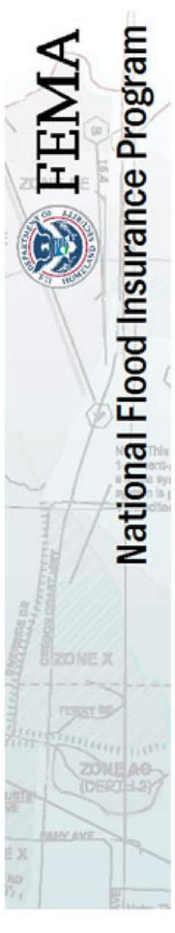
State Plane Transverse Mercator, Florida West Zone 0902; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 750 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR



NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

MANATEE COUNTY, FLORIDA
and Incorporated Areas

PANEL 337 OF 575

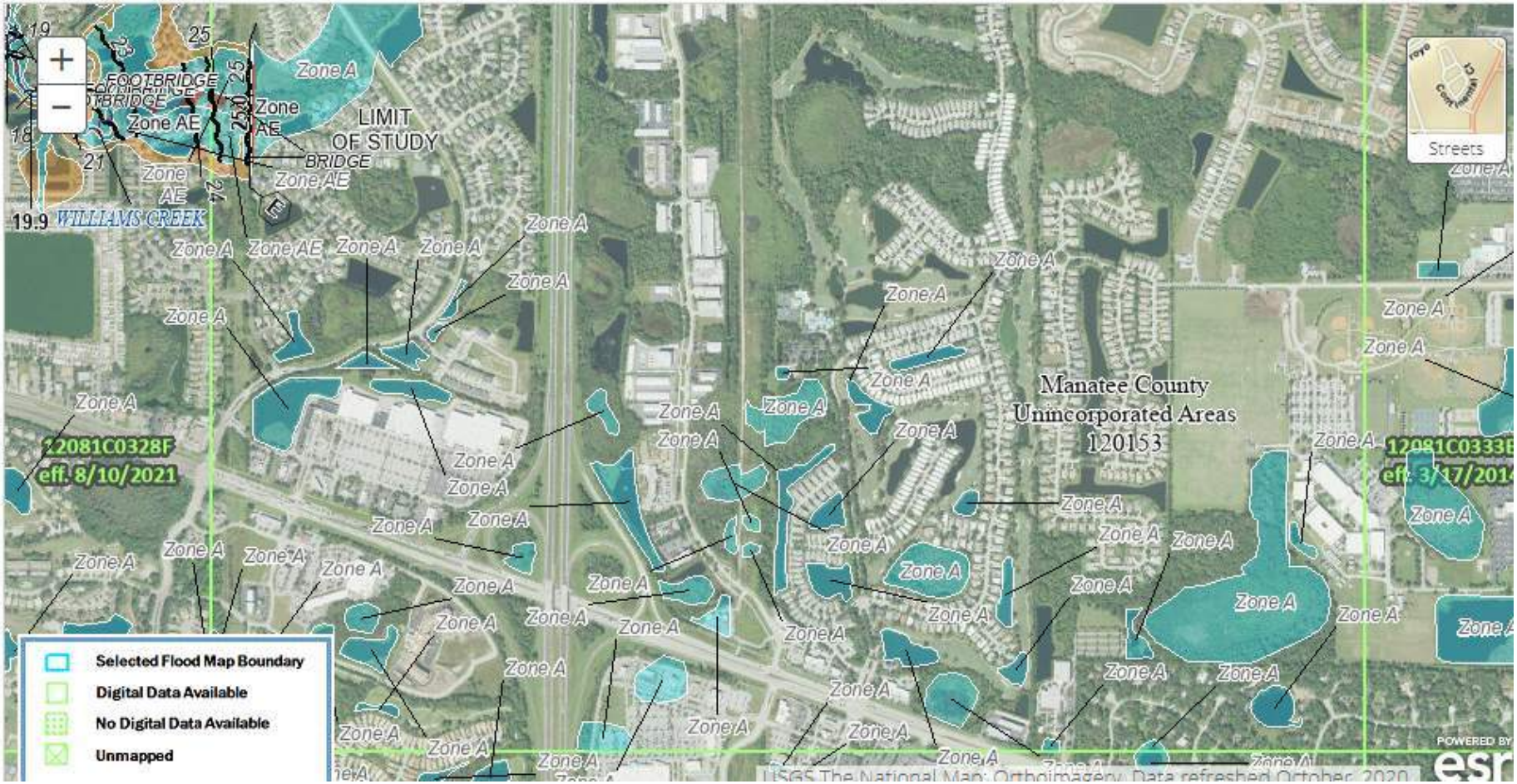
Panel Contains:

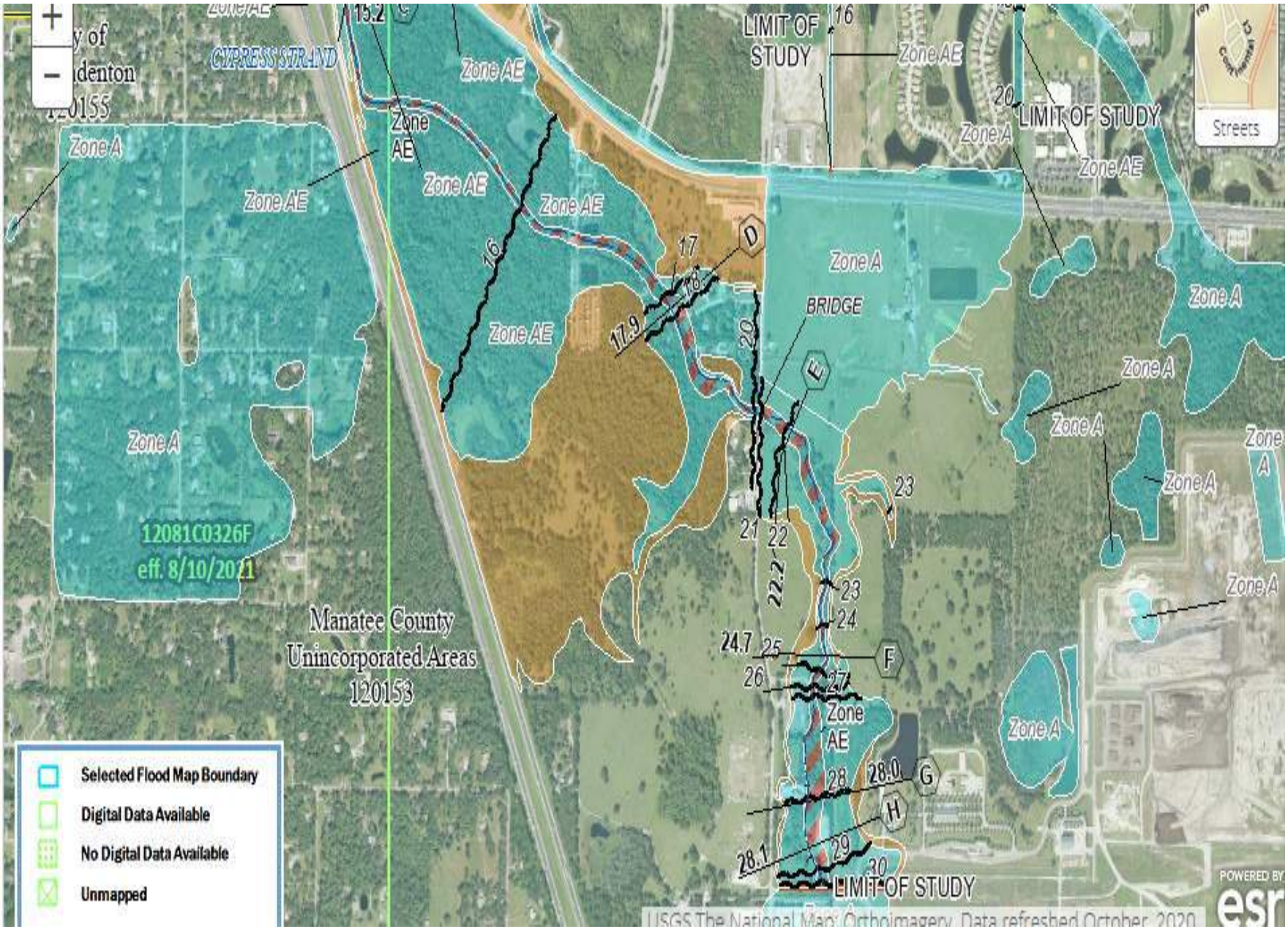
COMMUNITY	NUMBER	PANEL	SUFFIX
MANATEE COUNTY	120153	0337	F

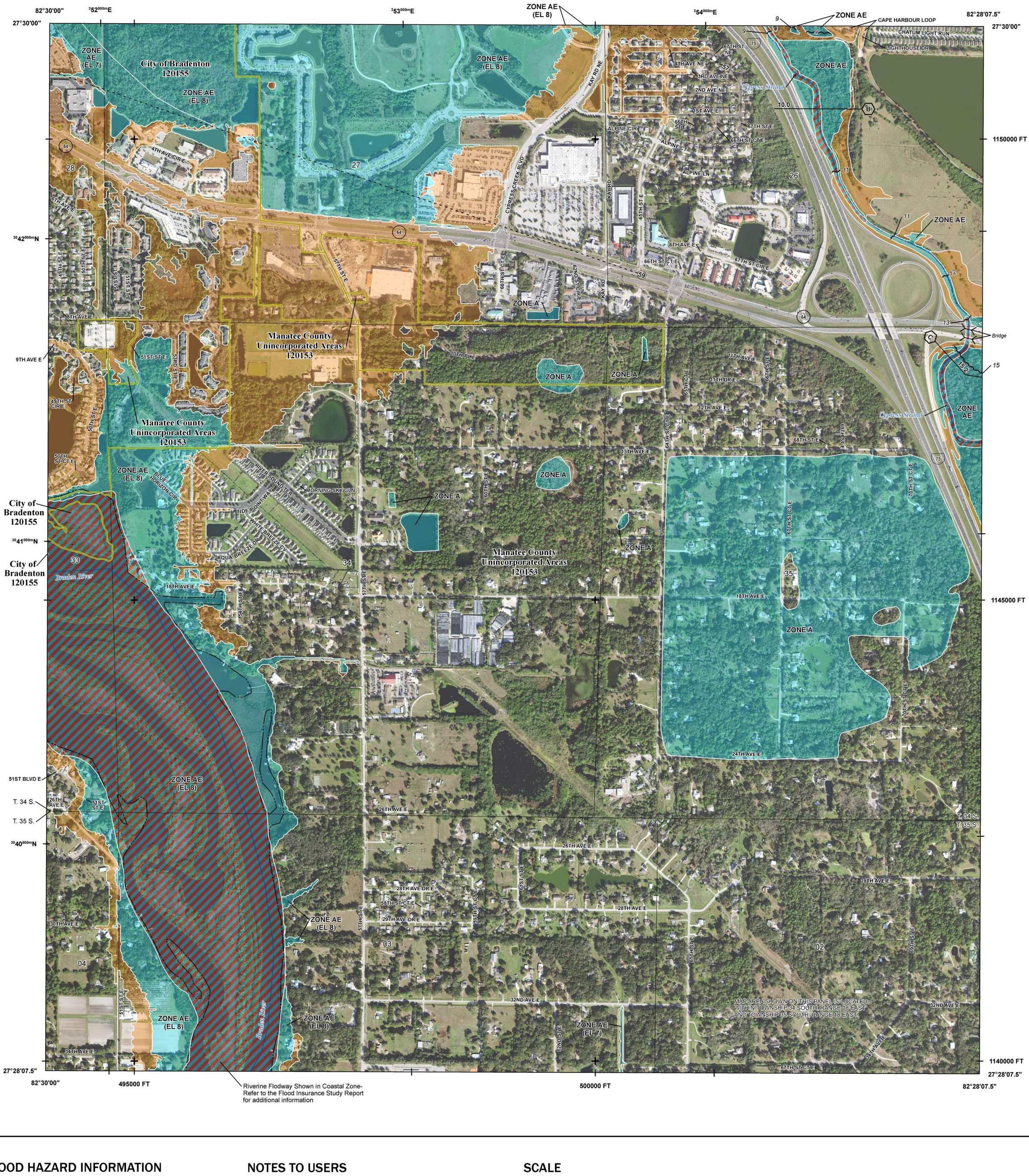
VERSION NUMBER
2.4.3.2

MAP NUMBER
12081C0337F

MAP REVISED
AUGUST 10, 2021


Zone A
Zone AE
LIMIT
OF STUDY
FOOTBRIDGE
BRIDGE
WILLIAMS CREEK
Manatee County
Unincorporated Areas
120153
12081C0328F
eff. 8/10/2021
12081C0333E
eff. 3/17/2014
Streets
Selected Flood Map Boundary
Digital Data Available
No Digital Data Available
Unmapped
USGS The National Map: Orthoimagery. Data refreshed October, 2020
POWERED BY esri


LIMIT OF STUDY
Zone AE
Zone A
BRIDGE
CYPRESS STRAND
12081C0326F
eff. 8/10/2021
Manatee County
Unincorporated Areas
120153
Streets
Selected Flood Map Boundary
Digital Data Available
No Digital Data Available
Unmapped
LIMIT OF STUDY
USGS The National Map: Orthoimagery. Data refreshed October, 2020



FLOOD HAZARD INFORMATION

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- 8 — Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
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- Limit of Study
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SCALE

N

Map Projection:
State Plane Transverse Mercator, Florida West Zone 0902; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 750 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

MANATEE COUNTY, FLORIDA
and Incorporated Areas

PANEL 326 OF 575

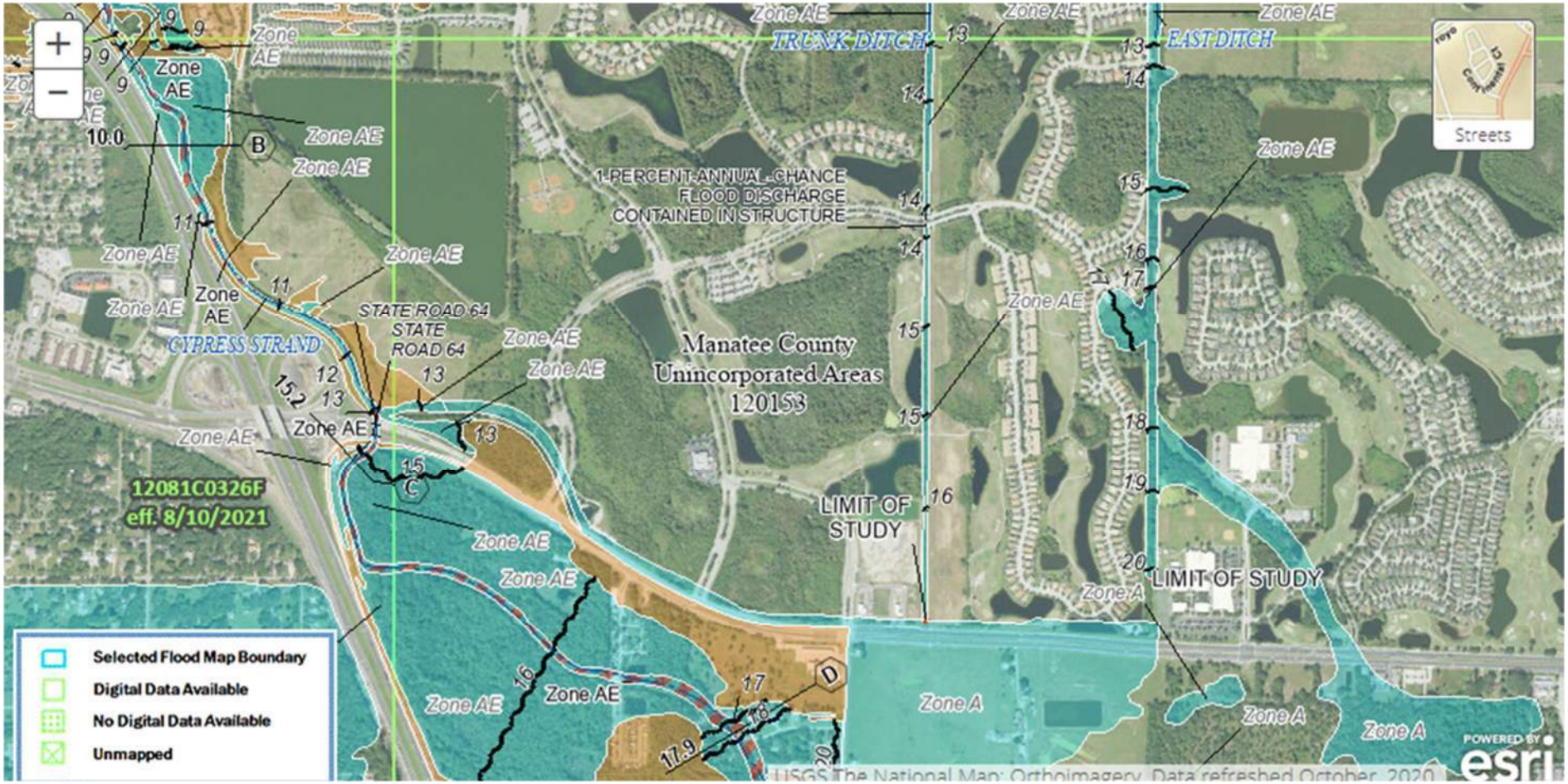
Panel Contains:

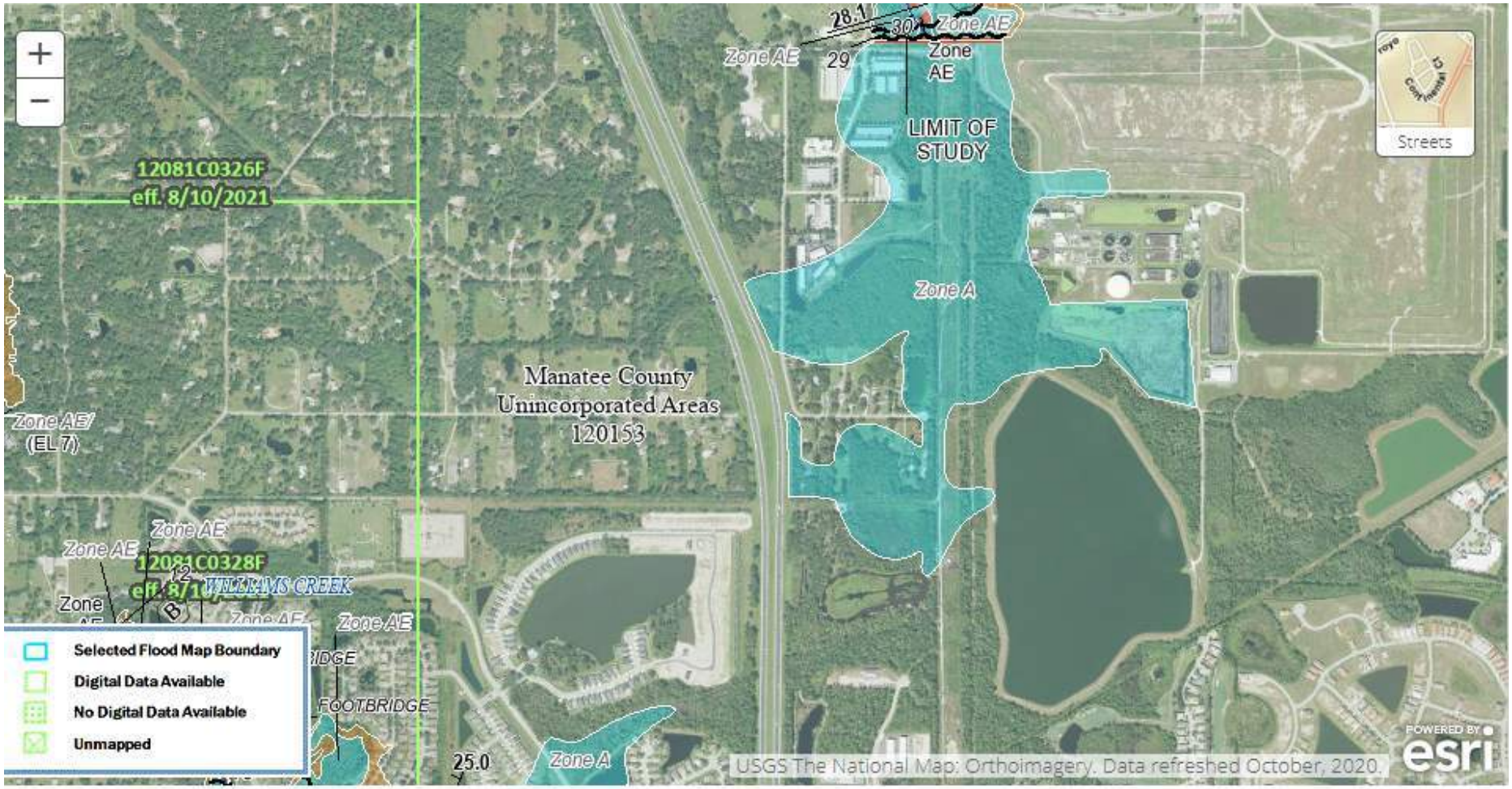
COMMUNITY	NUMBER	PANEL	SUFFIX
BRADENTON, CITY OF	120155	0326	F
MANATEE COUNTY	120153	0326	F

VERSION NUMBER
2.4.3.2

MAP NUMBER
12081C0326F

MAP REVISED
AUGUST 10, 2021


Zone AE
TRUNK DITCH
EAST DITCH
1-PERCENT-ANNUAL-CHANCE FLOOD DISCHARGE CONTAINED IN STRUCTURE
STATE ROAD 64
STATE ROAD 64
CYPRESS STRAND
Manatee County Unincorporated Areas 120153
12081C0326F
eff. 8/10/2021
LIMIT OF STUDY
LIMIT OF STUDY
Zone A
Streets
Selected Flood Map Boundary
Digital Data Available
No Digital Data Available
Unmapped
USGS The National Map: Orthoimagery. Data refreshed October, 2020
POWERED BY esri


12081C0326F
eff. 8/10/2021
Zone AE
Zone AE
28.1
30
29
Zone AE
Zone AE
LIMIT OF STUDY
Zone A
Manatee County
Unincorporated Areas
120153
Zone AE/
(EL 7)
Zone AE
Zone AE
12081C0328F
WILLIAMS CREEK
Zone AE
Zone AE
FOOTBRIDGE
25.0
Zone A
Selected Flood Map Boundary
Digital Data Available
No Digital Data Available
Unmapped
Streets
USGS The National Map: Orthoimagery. Data refreshed October, 2020.
POWERED BY esri

THIS AREA SHOWN AT A SCALE OF 1"=500'
ON MAP NUMBER 12081C0186

THIS AREA SHOWN AT A SCALE OF 1"=500'
ON MAP NUMBER 12081C0187

Manatee County
Unincorporated Areas
120153

City of Bradenton
120155

Riverine Floodway Shown in Coastal Zone- Refer to the Flood Insurance Study Report for additional information

1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN STRUCTURE

MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 34 SOUTH, RANGE 18 EAST AND TOWNSHIP 34 SOUTH, RANGE 19 EAST.

15. FISH HOOK CV
16. WINDING STREAM WAY
17. FIELD BROOK CT
18. RIVER BASIN CT
19. TURNING LEAF TER
20. WINTER HARBOUR WAY
21. HAMMOCK EDGE PL
22. GRAND PRESERVE CV
23. CORDGRASS LN
24. RIVER CRANE ST
25. WINDING BROOK LN
26. SUMMER GREENS TER
27. BEACON HARBOUR LOOP
28. BURNING LIGHT WAY
29. LIGHTHOUSE DR
30. 8TH AVE N
31. FIREWATER DR
32. MINNEHAHA DR
33. PEACE PIPE CIR
34. 9TH AVE CIR NE

FLOOD HAZARD INFORMATION

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OTHER FEATURES
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- 8 Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

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LIMIT OF MODERATE WAVE ACTION: Zone AE has been divided by a Limit of Moderate Wave Action (LiMWA). The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between Zone VE and the LiMWA (or between the shoreline and the LiMWA for areas where Zone VE is not identified) will be similar to, but less severe than, those in the Zone VE.

Limit of Moderate Wave Action (LiMWA)

SCALE

N

Map Projection:
State Plane Transverse Mercator, Florida West Zone 0902; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 1,000 feet 1:12,000

0 1,000 2,000 4,000 feet

0 250 500 1,000 meters

PANEL LOCATOR

FEMA
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

MANATEE COUNTY, FLORIDA
and Incorporated Areas

PANEL 190 OF 575

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
BRADENTON, CITY OF	120155	0190	F
MANATEE COUNTY	120153	0190	F

VERSION NUMBER
2.4.3.2

MAP NUMBER
12081C0190F

MAP REVISED
AUGUST 10, 2021

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTPS://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A,V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- E 18.2 / 17.5 — Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 — Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 — Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

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Limit of Moderate Wave Action (LiMWA)

SCALE

N

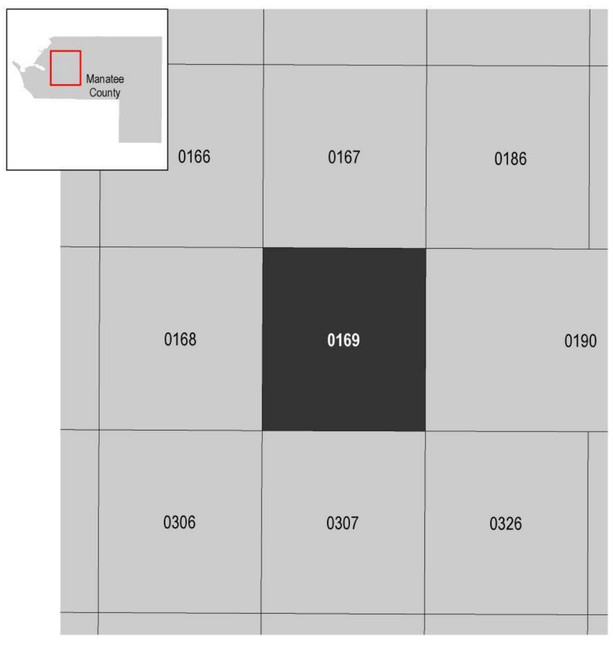
Map Projection:
State Plane Transverse Mercator, Florida West Zone 0902; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

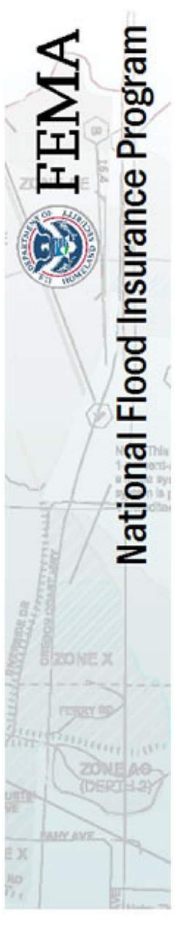
1 inch = 500 feet 1:6,000

0 250 500 750 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR





NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

MANATEE COUNTY, FLORIDA
and Incorporated Areas

PANEL 169 OF 575

FEMA

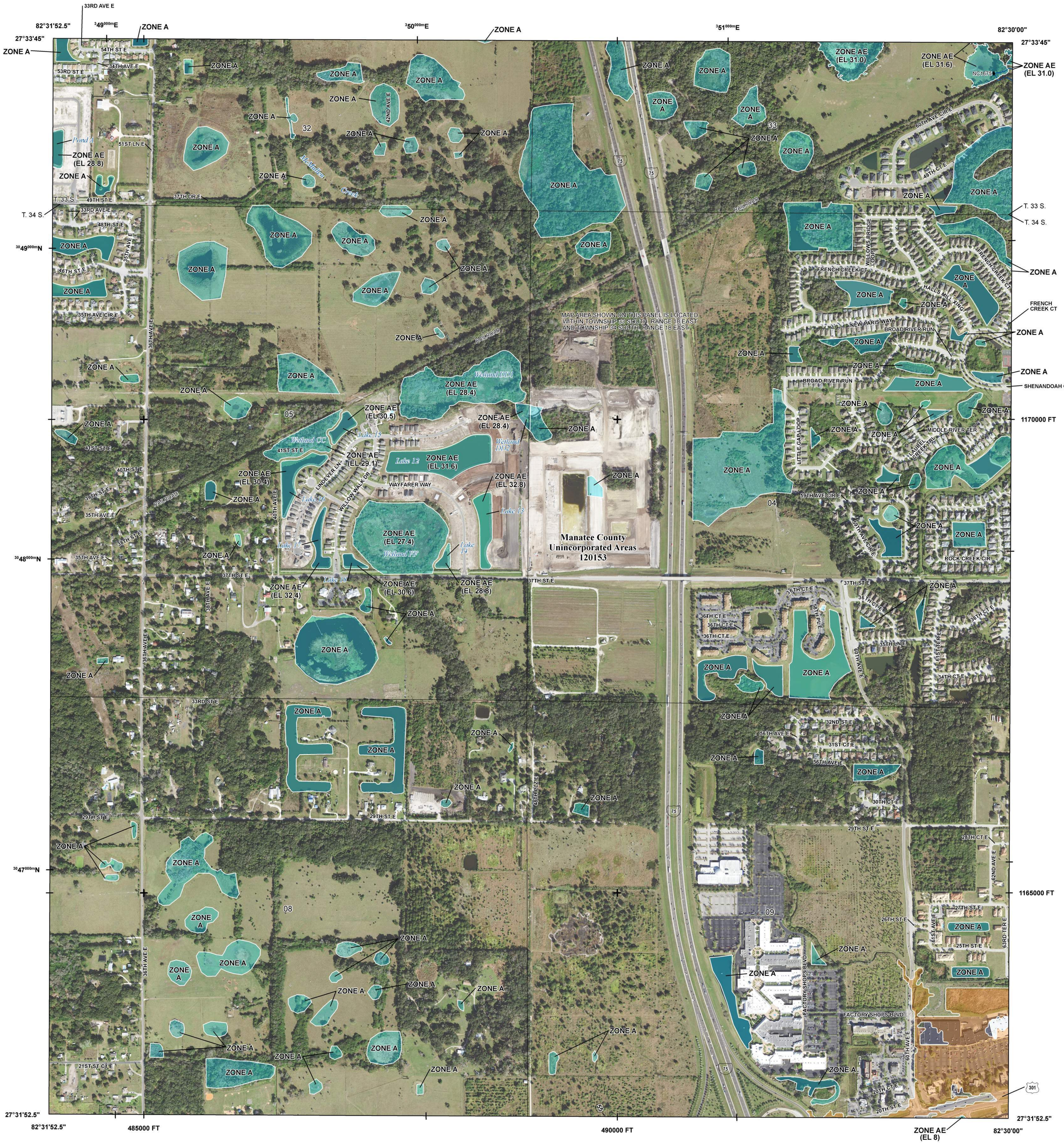
Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
BRADENTON, CITY OF	120155	0169	F
MANATEE COUNTY	120153	0169	F

VERSION NUMBER
2.4.3.2

MAP NUMBER
12081C0169F

MAP REVISED
AUGUST 10, 2021



FLOOD HAZARD INFORMATION

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SPECIAL FLOOD HAZARD AREAS
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- Regulatory Floodway

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- Area with Flood Risk due to Levee *Zone D*

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- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- E 18.2 / 17.5 — Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 — Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 — Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

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SCALE

N

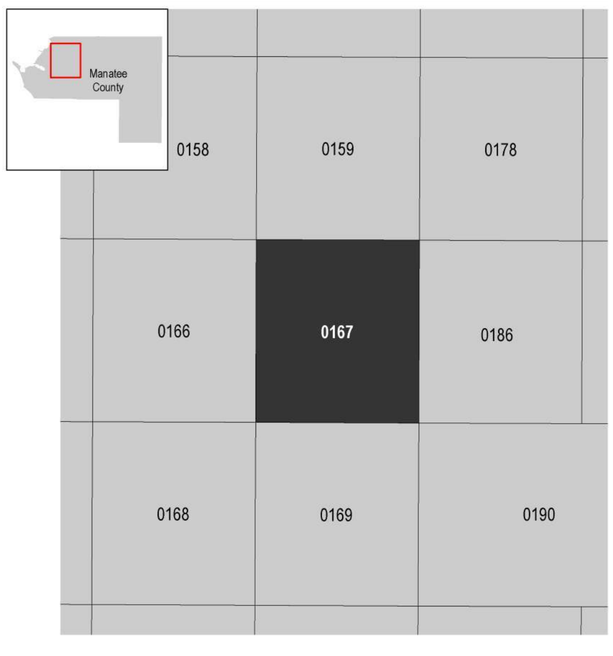
Map Projection:
State Plane Transverse Mercator, Florida West Zone 0902; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

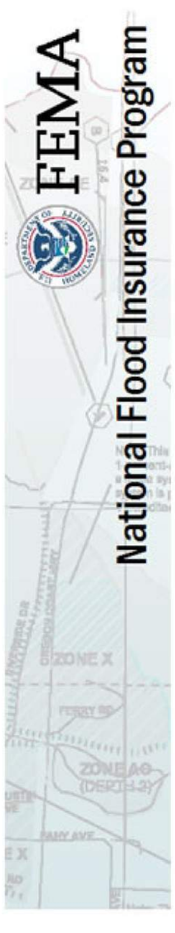
1 inch = 500 feet 1:6,000

0 250 500 750 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR





NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

MANATEE COUNTY, FLORIDA
and Incorporated Areas

PANEL 167 OF 575

FEMA

Panel Contains:

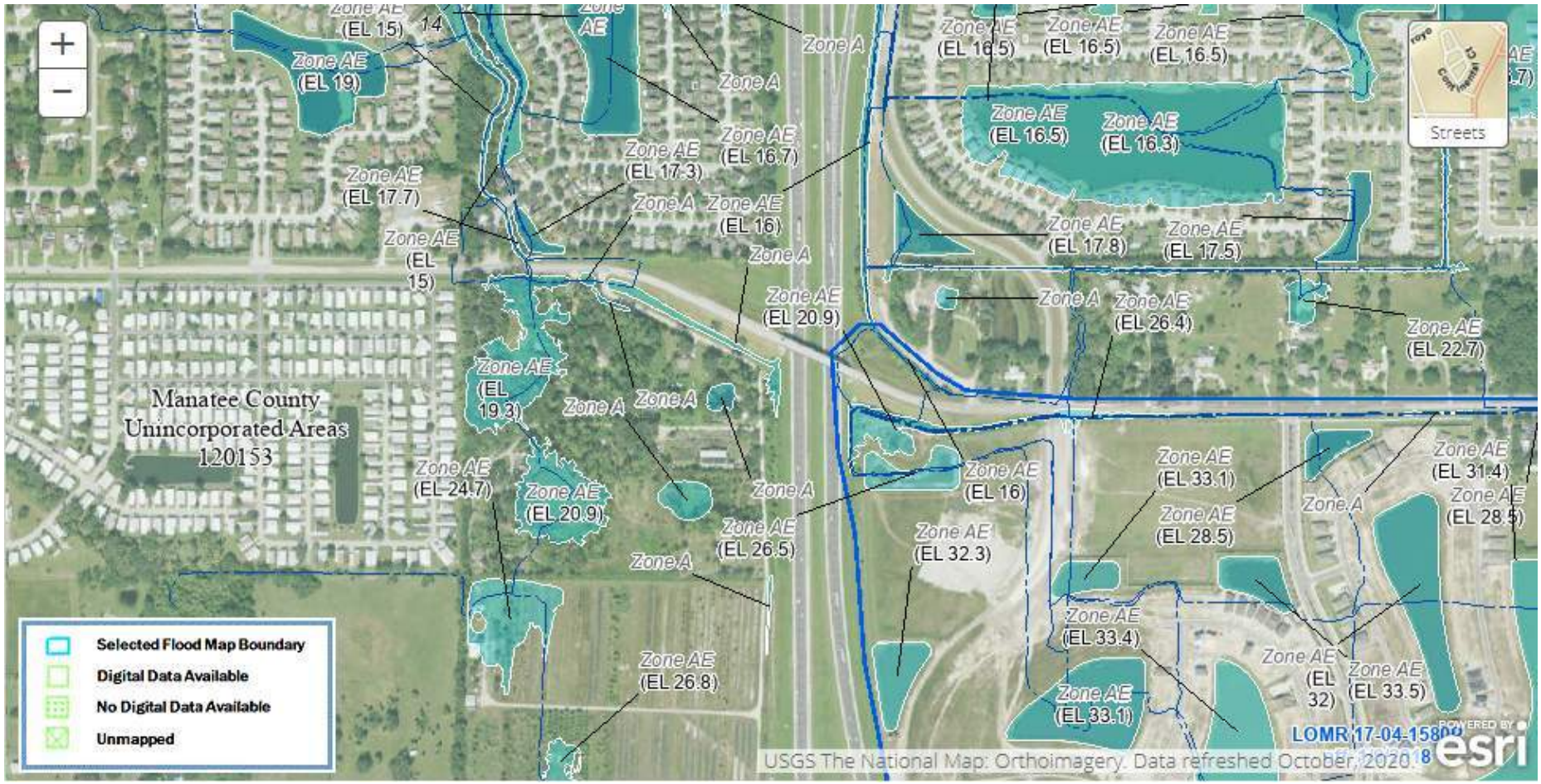
COMMUNITY	NUMBER	PANEL	SUFFIX
MANATEE COUNTY	120153	0167	F

VERSION NUMBER
2.4.3.2

MAP NUMBER
12081C0167F

MAP REVISED
AUGUST 10, 2021


(EL 24.7)
Zone A
Zone AE
(EL 33.1)
Zone AE
(EL 33.4)
Zone AE
(EL 24.7)
Zone AE
(EL 26.8)
Zone AE
(EL 32.3)
Streets
LOMR 17-04-1580P
eff. 1/8/2018
Zone AE
(EL 31.4)
Zone A
Zone AE
(EL 34.9)
Zone AE
(EL 31)
Manatee County
Unincorporated Areas
120153
Zone A
Zone A
Zone A
Zone AE
(EL 31)
Zone A
Zone A
Zone A
Zone AE
(EL 31)
Selected Flood Map Boundary
Digital Data Available
No Digital Data Available
Unmapped
USGS The National Map: Orthoimagery. Data refreshed October, 2020.
POWERED BY esri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Zone AE (EL 19)
Zone A
Zone AE (EL 16.5)
Zone AE (EL 16.3)
Zone AE (EL 17.3)
Zone AE (EL 16.7)
Zone AE (EL 17.7)
Zone AE (EL 16)
Zone AE (EL 17.8)
Zone AE (EL 17.5)
Zone AE (EL 15)
Zone AE (EL 20.9)
Zone AE (EL 26.4)
Zone AE (EL 22.7)
Zone AE (EL 19.3)
Manatee County
Unincorporated Areas
120153
Zone AE (EL 24.7)
Zone AE (EL 20.9)
Zone AE (EL 26.5)
Zone AE (EL 33.1)
Zone AE (EL 31.4)
Zone AE (EL 28.5)
Zone AE (EL 32.3)
Zone AE (EL 33.4)
Zone AE (EL 26.8)
Zone AE (EL 33.1)
Zone AE (EL 33.5)
Streets
Selected Flood Map Boundary
Digital Data Available
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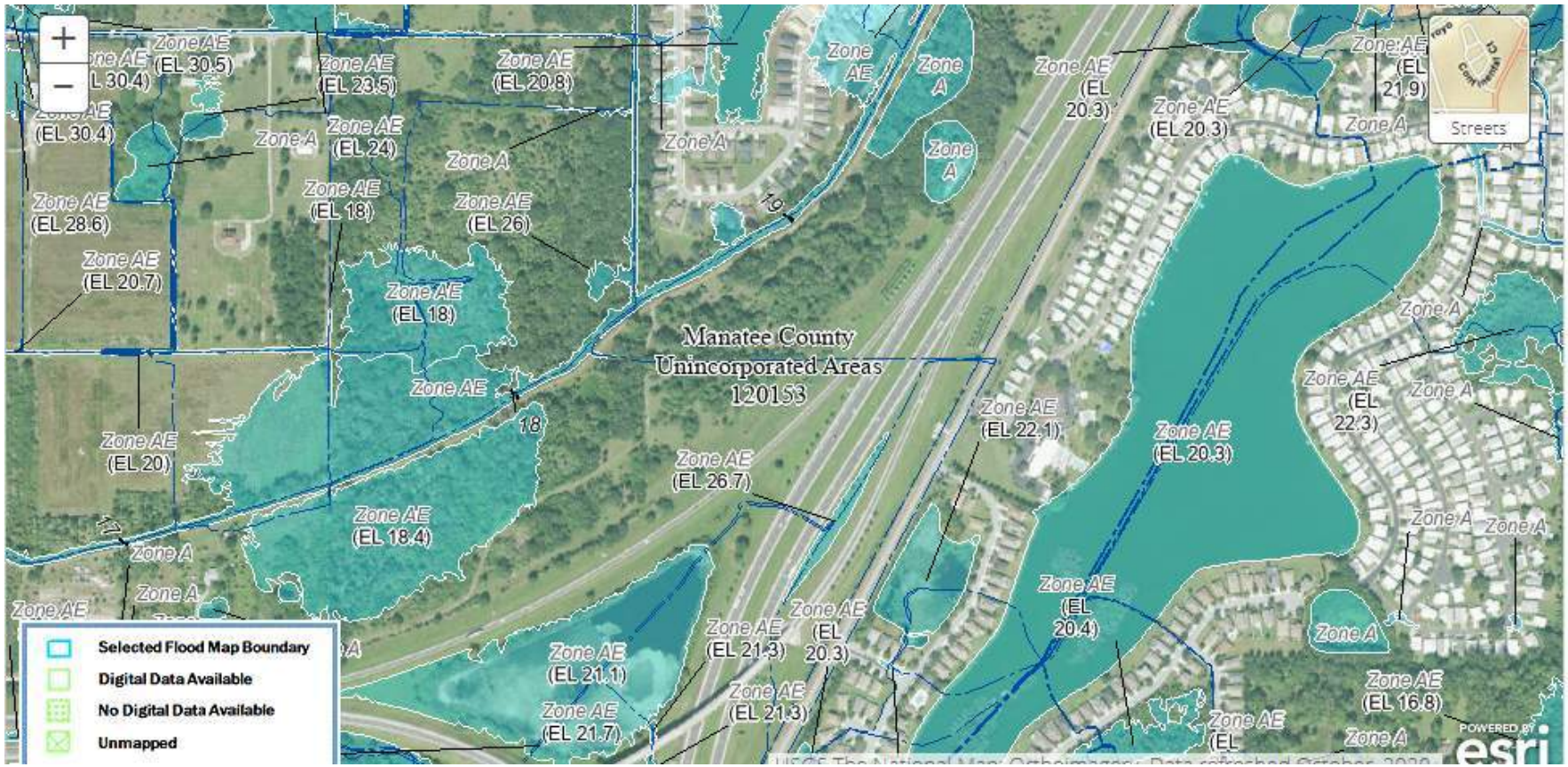
Unmapped
LOMR 17-04-1580
USGS The National Map: Orthoimagery. Data refreshed October, 2020.
esri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Zone AE (EL 20.8)
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Zone A
Zone AE (EL 24)
Zone A
Zone AE (EL 18)
Zone AE (EL 26)
Zone AE (EL 28.6)
Zone AE (EL 20.7)
Zone AE (EL 18)
Manatee County
Unincorporated Areas
120153
Zone AE
Zone AE (EL 20)
Zone AE (EL 18.4)
Zone AE (EL 26.7)
Zone AE (EL 22.1)
Zone AE (EL 20.3)
Zone AE (EL 20.3)
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Zone AE (EL 22.3)
Zone AE (EL 20.4)
Zone AE (EL 21.1)
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Zone AE (EL 21.7)
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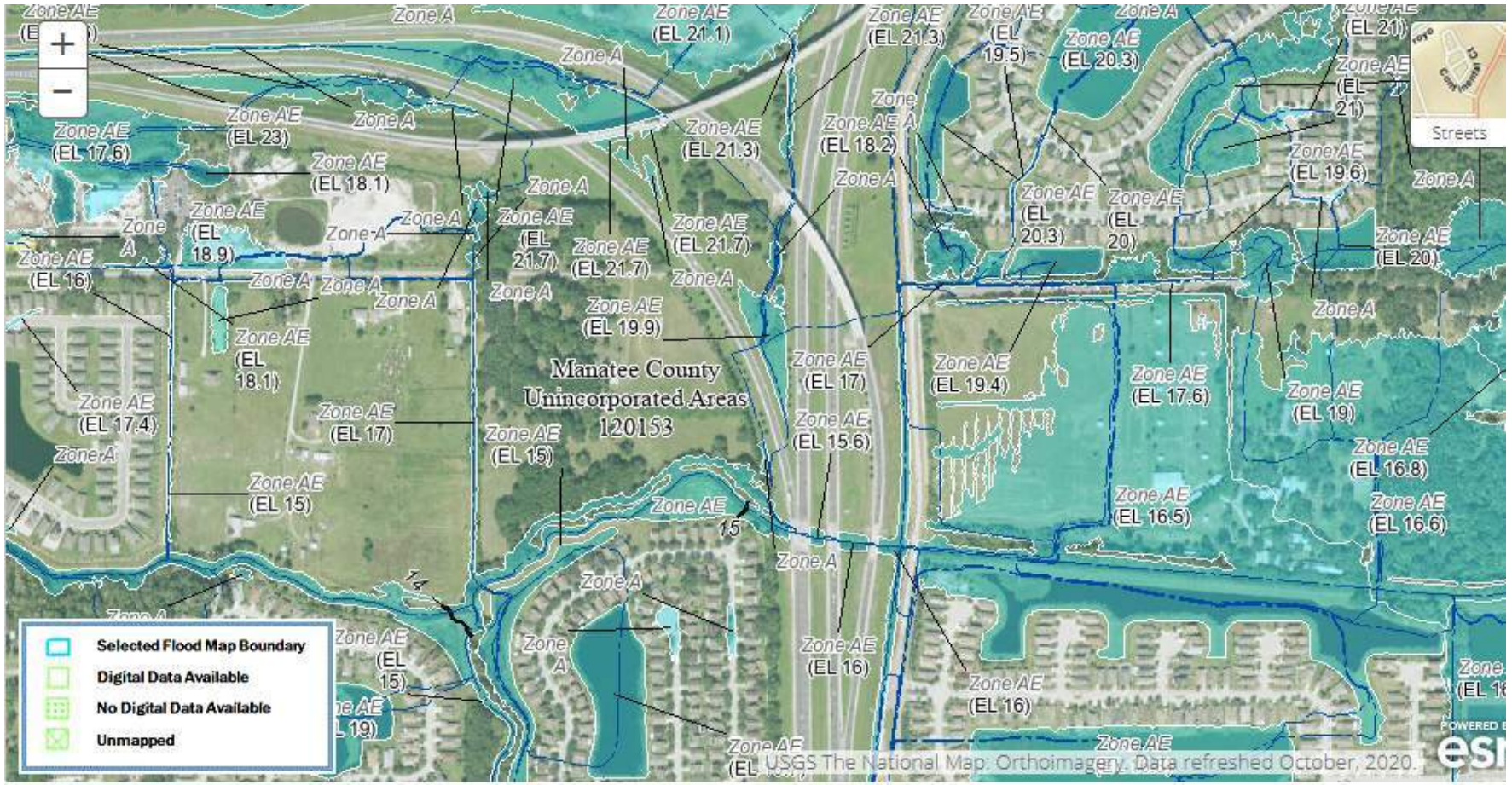
Zone A
Streets
Selected Flood Map Boundary
Digital Data Available
No Digital Data Available
Unmapped
POWERED BY esri


Zone AE (EL 17.6)
Zone AE (EL 23)
Zone A
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Zone AE (EL 17)
Zone AE (EL 15)
Zone AE (EL 21.1)
Zone AE (EL 21.3)
Zone AE (EL 21.7)
Zone AE (EL 19.9)
Manatee County
Unincorporated Areas
120153
Zone AE (EL 17)
Zone AE (EL 15.6)
Zone AE (EL 16)
Zone AE (EL 18.2)
Zone AE (EL 19.5)
Zone AE (EL 20.3)
Zone AE (EL 19.4)
Zone AE (EL 20.3)
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Zone AE (EL 21)
Zone AE (EL 19.6)
Zone AE (EL 20)
Zone AE (EL 19)
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Zone AE (EL 16.6)
Zone AE (EL 16)
Streets
Selected Flood Map Boundary
Digital Data Available
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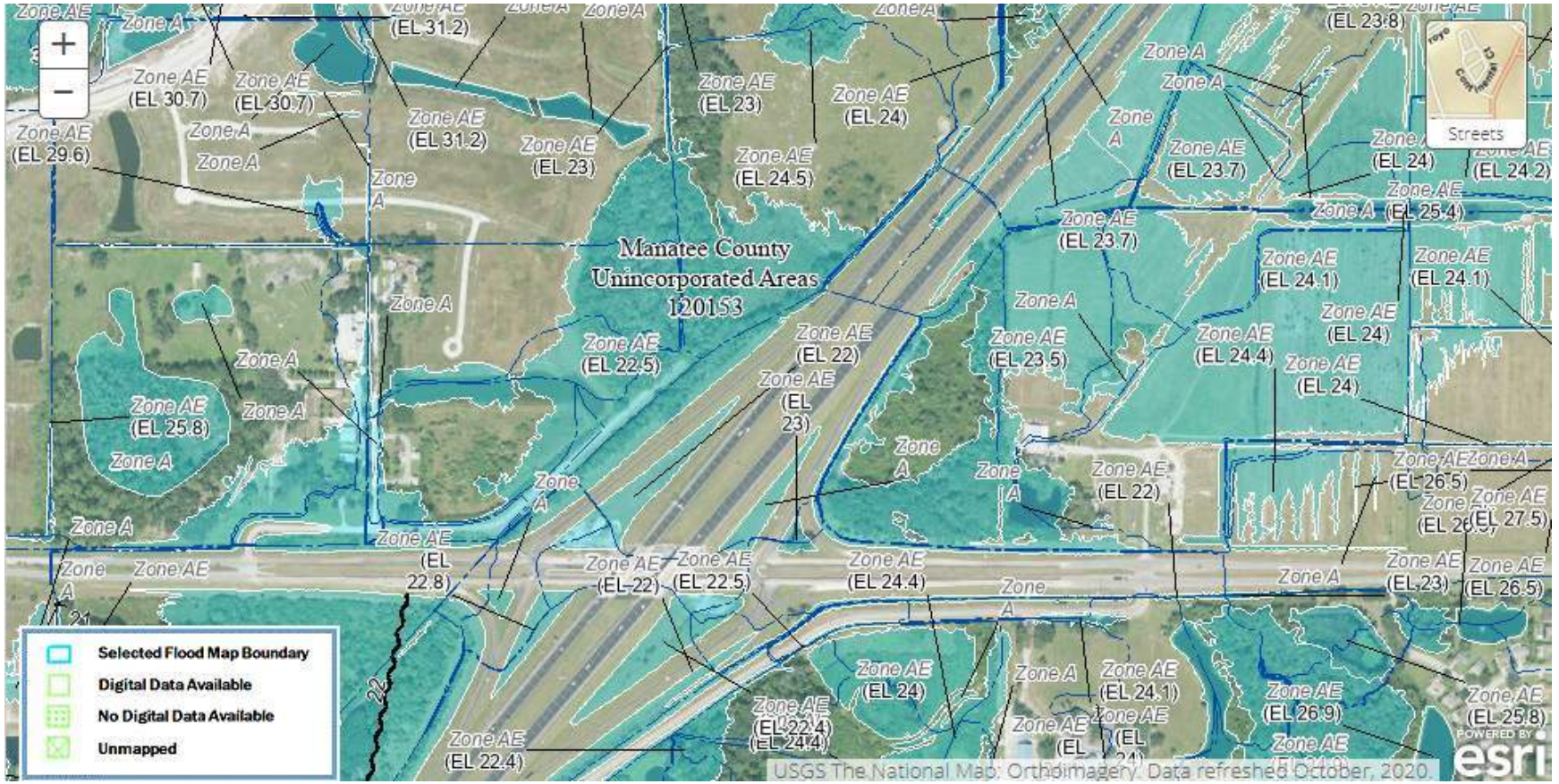
USGS The National Map: Orthoimagery. Data refreshed October, 2020.


Manatee County
Unincorporated Areas
120153
Zone AE (EL 31.2)
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Zone AE (EL 30.7)
Zone AE (EL 29.6)
Zone AE (EL 31.2)
Zone AE (EL 23)
Zone AE (EL 24)
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Zone AE (EL 23.8)
Zone AE (EL 23.7)
Zone AE (EL 24)
Zone AE (EL 24.2)
Zone AE (EL 25.4)
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Zone AE (EL 24.1)
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Zone AE (EL 22)
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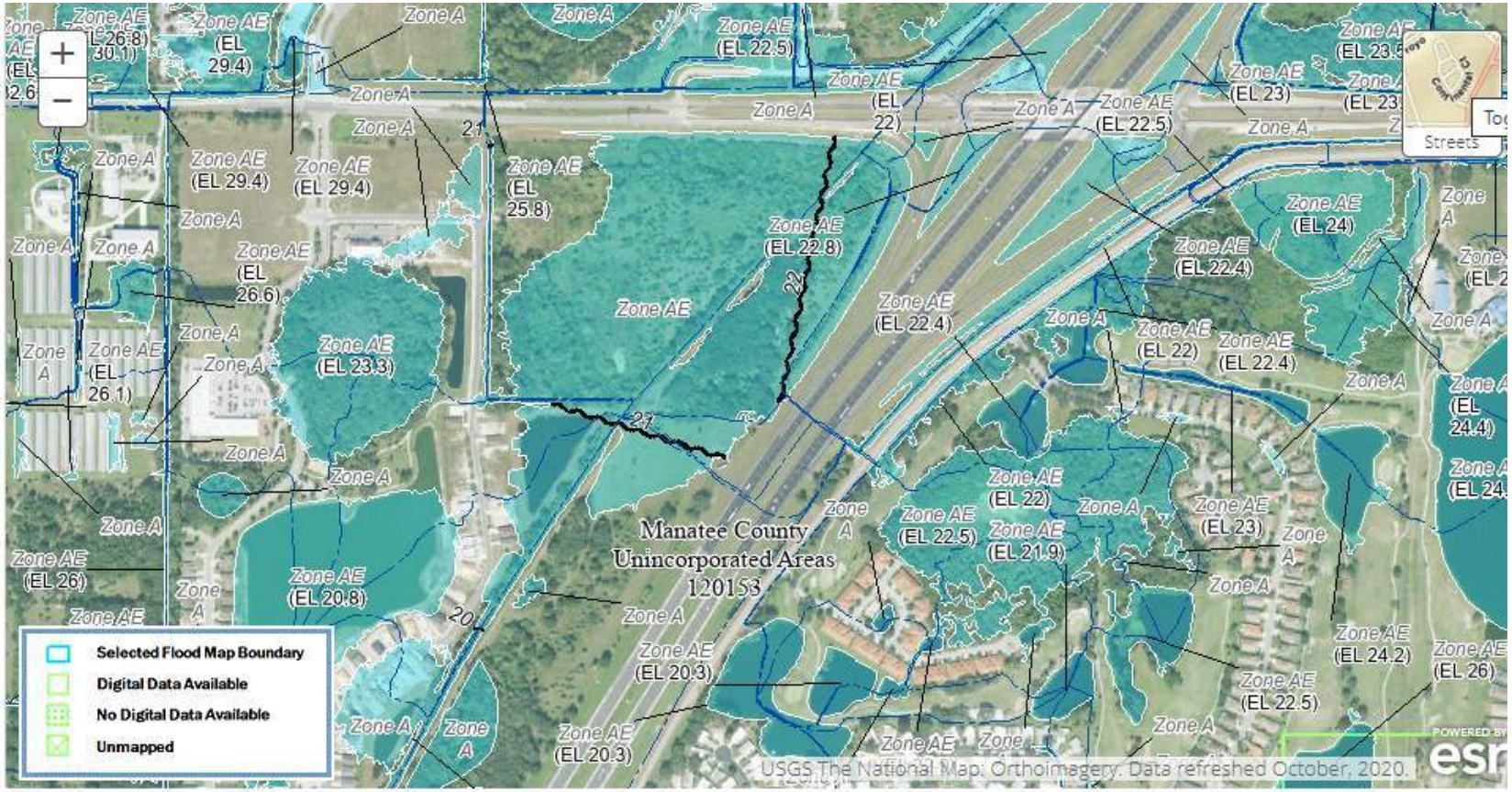
Zone AE (EL 26.9)
Zone AE (EL 25.8)
Zone AE (EL 22.4)
Zone AE (EL 22.4)
Zone A
Selected Flood Map Boundary
Digital Data Available
No Digital Data Available
Unmapped
Streets
USGS The National Map: Orthoimagery. Data refreshed October, 2020.
esri


Zone AE
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(EL 22)
Zone AE
(EL 22.4)
Zone AE
(EL 24.4)
Zone AE
(EL 22.5)
Zone AE
(EL 21.9)
Zone AE
(EL 23)
Zone AE
(EL 26)
Zone AE
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Zone AE
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Zone AE
(EL 22.5)
Manatee County
Unincorporated Areas
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