Date Issued: April 2017 Latest Issue: June 2018

Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) & Homosassa Trail Citrus County, Florida

Parcel IDs: 17E19S220010 00030 0010

### **Owner/Applicant:**

Homosassa Associates LLC 1701 N. Federal Highway, Suite 4 Boca Raton, Florida 33432

### LEGAL DESCRIPTION

COM AT SW COR OF BLK 5 UNIT 1 OF HOMOSASSA, TH N 0 DEG 4M 45S W 385 FT FOR POB, TH N 0 DEG 4M 45S W 530 FT, TH N 89 DEG 55M 15S E 445 FT, TH S 0 DEG 4M 45S E 122.5 FT, TH N 8 9 DEG 55M 15S E 320 FT, TH N 0 DEG 4M 45S W 62.5 FT, TH N 89 DEG 55M 15S E 125 FT, TH S 0 DEG 4M 45S E 538.5 FT, TH S 89 DEG 55M 15S W 249 FT, TH N 0 DEG 4M 45S W 16 FT, TH S 89 DEG 55M 15S W 295 FT, TH N 0 DEG 4M 45S W 52.5 FT, TH S 89 DEG 55M 15S W 346 FT TO POB DESC IN OR BK 736 PGS 1131 & 1134, OR BK 789 PG 391 & OR BK 820 PG 1239 -- 1988 LESS OUTS: LOT 1.1 OUT SEPARATE % MC DONALD'S -- SUBJ TO UTILITY EASE AGREE WITH CITRUS CO AS DESCR IN OR BK 2001 PG 1139 AND LESS LIFT STATION TO CITRUS COUNTY AS DESCR IN OR BK 2001 PG 1150

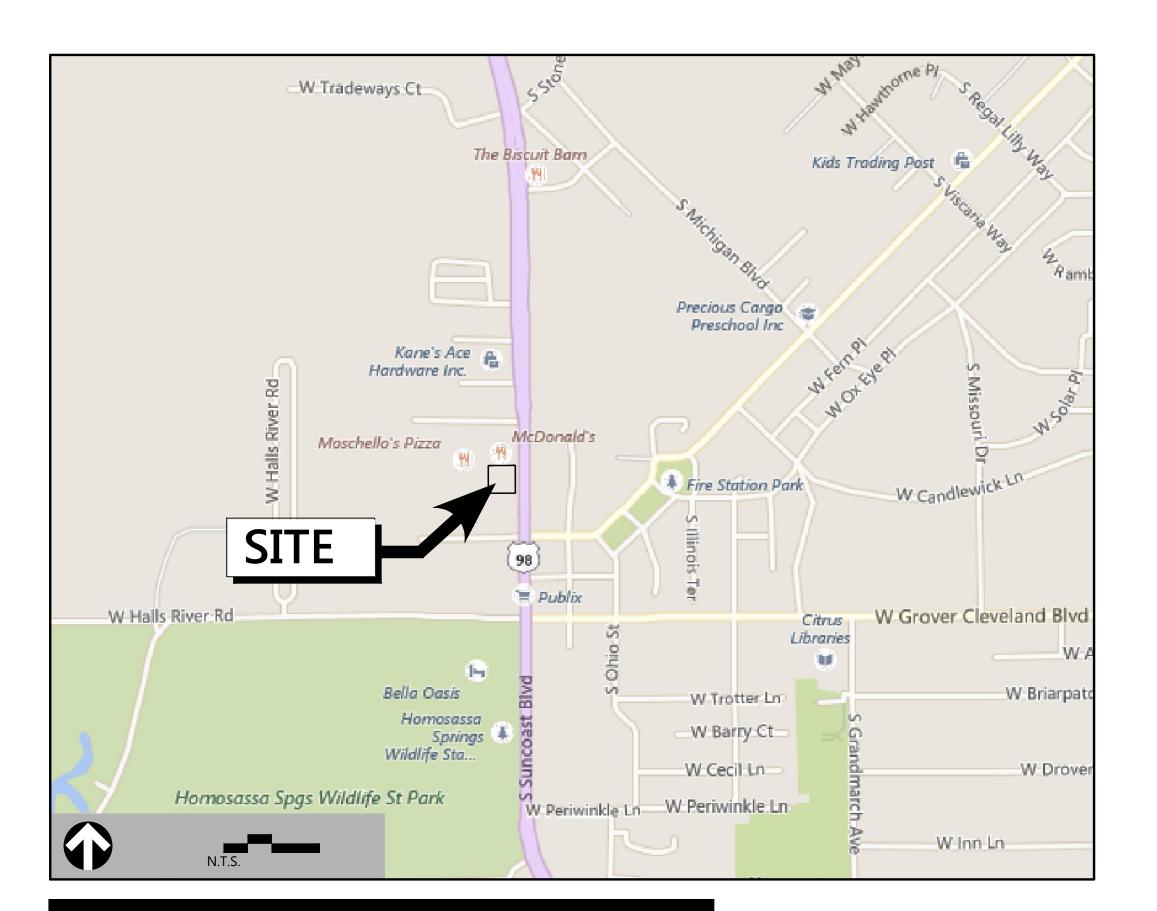
### <u>NOTES</u>

- 1. THE FDOT CONTRACTOR IS CURRENTLY USING THE EXISTING HEADWALL AND TREATMENT DITCH AS A TEMPORARY DRAINAGE OUTFALL FOR WORK ALONG US 19.
- 2. SITE CONTRACTOR TO COORDINATE ANY WORK IN THE EXISTING SOUTH DITCH, THE PROPOSED SOUTH DRIVE, AND FILLING IN OF THE AREA BETWEEN THE SOUTH DRIVEWAY AND US 19 SIDEWALK WITH FDOT CONSTRUCTION PRIOR TO ANY WORK BEING PERFORMED.

FDOT CONTACTS:

FRANK PROCH, CEI 352.503.9392
TYLER MATTHEWS, EI, FDOT CONSTRUCTION 0: 352.848.2653 C: 813.415.5617

- 3. SITE CONTRACTOR SHALL NOT INTERFERE WITH THE US 19 CONSTRUCTION WORK. THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DELAY CLAIMS BY THE US 19 CONTRACTOR.
- 4. IF THE SITE CONTRACTOR WANTS TO USE THE SOUTH CONSTRUCTION ENTRANCE WHILE THE TEMPORARY DRAINAGE OUTFALL IS BEING USED, A TEMPORARY PIPE MUST BE INSTALLED UNDER THE DRIVE TO MAINTAIN THE OUTFALL FOR THE US 19 CONSTRUCTION.



	Sheet Index						
_	No.	Drawing Title	Latest Issue				
•	C1.0	Cover Sheet	June 2018				
	C2.0	Legend And General Notes	June 2018				
	C3.0-C3.1	Stormwater Pollution Prevention Plan	June 2018				
	C3.2	Stormwater Pollution Prevention Details	June 2018				
	C4.0-C4.1	Grading and Drainage Plan	June 2018				
	C5.0-C5.3	Pond and Drainage Details	June 2018				

Referen	ice Drawings	
No.	Drawing Title	Latest Issue
SV1	Boundary & Topographic Survey	September 2017

**Engineer: VHB**225 E. Robinson St., Suite 300

225 E. Robinson St., Suite 300 Orlando, FL 32801 P 407.839.4006 · F 407.839.4008

Geotech: Test Lab, Inc. 4112 W Osborne Avenue Tampa, FL 33614-6528 P 813.872.7821 Surveyor: VHB

225 E. Robinson St., Suite 300 Orlando, FL 32801 P 407.839.4006 · F 407.839.4008 225 E. Robinson Street
Suite 300
Orlando, FL 32801
407.839.4006
Certificate of Authorization
Number FL #3932

Legend							
Exist.	Prop.		Exist.	Prop.			
		PROPERTY LINE	1	Stanford State	CONCRETE		
		PROJECT LIMIT LINE	(4.5 H. 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>	HEAVY DUTY PAVEMENT		
		RIGHT-OF-WAY/PROPERTY LINE			RIPRAP		
		EASEMENT	0200020		CONSTRUCTION ENTRANCE		
		BUILDING SETBACK		<u> </u>			
		PARKING SETBACK	27.35 TC×	27.35 TC ×	TOP OF CURB ELEVATION		
10+00	<u>10+00</u>	BASELINE	26.85 BC×	26.85 BC×	BOTTOM OF CURB ELEVATION		
		CONSTRUCTION LAYOUT	132.75 × 45.0 TW ×	132.75 ×	SPOT ELEVATION		
		ZONING LINE	38.5 BW	45.0 TW × 38.5 BW	TOP & BOTTOM OF WALL ELEVATION		
		TOWN LINE	•	•	BORING LOCATION		
			■ MW	■ MW	TEST PIT LOCATION		
		LIMIT OF DISTURBANCE		→ <sup>MW</sup>	MONITORING WELL		
<u> </u>		WETLAND LINE WITH FLAG	——UD——	——UD——	UNDERDRAIN		
		FLOODPLAIN	12"D	12″D─►	DRAIN		
BLSF		BORDERING LAND SUBJECT TO FLOODING	6"RD	6"RD►	ROOF DRAIN		
———ВZ——		WETLAND BUFFER ZONE	12"S	12"S	SEWER		
NDZ-		NO DISTURB ZONE	FM	<u>FM</u>	FORCE MAIN		
200′RA		200' RIVERFRONT AREA	OHW	OHW	OVERHEAD WIRE		
			6"W	6"W	WATER		
- — — —		GRAVEL ROAD	4"FP	4*FP	FIRE PROTECTION		
EOP	— —	EDGE OF PAVEMENT		2*DW	DOMESTIC WATER		
BB	BB	BITUMINOUS BERM	3"G	——-G——	GAS		
BC	BC	BITUMINOUS CURB	——E——	——E——	ELECTRIC		
CC	CC	CONCRETE CURB	STM	STM	STEAM		
	CG	CURB AND GUTTER	T	——T——	TELEPHONE		
CC	ECC	EXTRUDED CONCRETE CURB	——FA——	——FA——	FIRE ALARM		
CC	<u>MCC</u>	MONOLITHIC CONCRETE CURB	—— CATV——	——CATV——	CABLE TV		
CC	PCC	PRECAST CONC. CURB		■	CATCH BASIN		
SGE	SGE	SLOPED GRAN. EDGING			DOUBLE CATCH BASIN		
VGC	VGC	VERT. GRAN. CURB	<b></b>	<b>==</b>	GUTTER INLET		
		LIMIT OF CURB TYPE	(D)	•	DRAIN MANHOLE		
		SAWCUT 	=TD=	<del></del>	TRENCH DRAIN		
(11/1/1/		D.W. D.W. D	I	ŗ	PLUG OR CAP		
	74	BUILDING	CO	©CO ●	CLEANOUT		
	] (EN	BUILDING ENTRANCE	<b>&gt;</b>	<b>&gt;</b>	FLARED END SECTION		
](	<b>]</b> ₄rɒ	LOADING DOCK		$\searrow$	HEADWALL		
D	D	BOLLARD . DUMPSTER PAD	<u>s</u>	•	CEWED MANITOLE		
<u>.</u>	<u> </u>	SIGN -			SEWER MANHOLE		
-	<b>→</b>	DOUBLE SIGN	CS ⊚	CS ●	CURB STOP & BOX		
		BOODEE SION	₩V ⊚	wv ⊚	WATER VALVE & BOX		
т т		STEEL GUARDRAIL	TSV	TSV	TAPPING SLEEVE, VALVE & BOX		
		WOOD GUARDRAIL	<b>♦</b> ◆ _HYD	₩ HYD	SIAMESE CONNECTION		
			© WM	<b>⊙</b> WM	FIRE HYDRANT		
	= = = =	PATH	⊡ PIV	⊡ PIV ●	WATER METER		
	$\sim\sim$	TREE LINE	•	_	POST INDICATOR VALVE		
× ×	<del>-x x</del>	WIRE FENCE	W	<b>W</b>	WATER WELL		
0	•	FENCE	GG	GG	GAS GATE		
0	-	STOCKADE FENCE	GM GM	GM GM	GAS METER		
)			E	● <sup>EMH</sup>	ELECTRIC MANHOLE		
		RETAINING WALL	EM	EM	ELECTRIC METER		
		STREAM / POND / WATER COURSE	<b>\$</b>	*	LIGHT POLE		
		DETENTION BASIN	$\Box$	● TMH	TELEPHONE MANHOLE		
			_				
——×——	——×——	SILT FENCE	T	T	TRANSFORMER PAD		
C::::::> ·	· CIIIII ·	SILT SOCK / STRAW WATTLE	-0-	•	UTILITY POLE		
4	—— 4 ——	MINOR CONTOUR	0-	•-	GUY POLE		
20	20	MAJOR CONTOUR	$\downarrow$	Ţ	GUY WIRE & ANCHOR		
(10)	10	PARKING COUNT	HH ⊡	HH ⊡	HAND HOLE		
	©10	COMPACT PARKING STALLS	PB ⊡	PB ⊡	PULL BOX		
DYL	DYL	•	Mate	chline			
		DOUBLE YELLOW LINE		<u> </u>	MATCHLINE		
SL	SL	STOP LINE					

ACCESSIBLE CURB RAMP

VAN-ACCESSIBLE PARKING

ACCESSIBLE PARKING

	<b>Abbreviations</b>						
General		Utility	, -				
ABAN	ABANDON	СВ	CATCH BASIN				
ACR	ACCESSIBLE CURB RAMP	CMP	CORRUGATED METAL PIPE				
ADJ	ADJUST	CO	CLEANOUT				
APPROX	APPROXIMATE	DCB	DOUBLE CATCH BASIN				
ЗIТ	BITUMINOUS	DMH	DRAIN MANHOLE				
3S	BOTTOM OF SLOPE	CIP	CAST IRON PIPE				
BWLL	BROKEN WHITE LANE LINE	COND	CONDUIT				
CONC	CONCRETE	DIP	DUCTILE IRON PIPE				
OYCL	DOUBLE YELLOW CENTER LINE	FES	FLARED END SECTION				
ĒL	ELEVATION	FM	FORCE MAIN				
ELEV	ELEVATION	F <b>&amp;</b> G	FRAME AND GRATE				
EXIST	EXISTING	F&C	FRAME AND COVER				
DN	FOUNDATION	GI	GUTTER INLET				
FE	FIRST FLOOR ELEVATION	GT	GREASE TRAP				
GRAN	GRANITE	HDPE	HIGH DENSITY POLYETHYLENE PIPE				
STD	GRADE TO DRAIN	НН	HANDHOLE				
А	LANDSCAPE AREA	HW	HEADWALL				
OD	LIMIT OF DISTURBANCE	HYD	HYDRANT				
IAX	MAXIMUM	INV	INVERT ELEVATION				
MIN	MINIMUM	I=	INVERT ELEVATION				
11C	NOT IN CONTRACT	LP	LIGHT POLE				
NTS	NOT TO SCALE	MES	METAL END SECTION				
PERF	PERFORATED	PWW	PAVED WATER WAY				
PROP	PROPOSED	PVC	POLYVINYLCHLORIDE PIPE				
REM	REMOVE	PIV	POST INDICATOR VALVE				
RET	RETAIN	RCP	REINFORCED CONCRETE PIPE				
<b>?&amp;</b> D	REMOVE AND DISPOSE	R=	RIM ELEVATION				
₹&R	REMOVE AND RESET	SMH	SEWER MANHOLE				
SWEL	SOLID WHITE EDGE LINE	TSV	TAPPING SLEEVE, VALVE AND BOX				
SWLL	SOLID WHITE LANE LINE	UG	UNDERGROUND				
TS	TOP OF SLOPE	UP	UTILITY POLE				
TYP	TYPICAL						

General

LOCAL REQUIREMENTS.

STRINGENT).

2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY.

CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND

AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE

4. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS

5. WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, THE SITE CONTRACTOR SHALL

PERFORM EARTHWORK OPERATIONS REQUIRED UP TO SUBGRADE ELEVATIONS.

6. WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL

FDOT DESIGN STANDARDS AND 2016 STANDARD SPECIFICATIONS.

UNIFORM TRAFFIC CONTROL DEVICES 2009.

TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.

CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

AT THE CONTRACTOR'S EXPENSE.

SUCH OCCURS.

Demolition

STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE 2016

7. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND

POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT

ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.

8. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF

9. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION

10. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER

MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED

THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE

11. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE

12. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE

13. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO

14. THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND FALLS WITHIN THE

NPDES CONSTRUCTION GENERAL PERMIT (CGP) PROGRAM AND EPA JURISDICTION. PRIOR TO THE START OF CONSTRUCTION CONTRACTOR IS TO FILE A CGP NOTICE OF INTENT WITH THE EPA AND PREPARE A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE NPDES REGULATIONS. CONTRACTOR SHALL CONFIRM THE

1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE

SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE

APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS

SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN

SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR

PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS,

HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE

TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF ASBESTOS OR OTHER HAZARDOUS MATERIALS.

1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN

REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.

3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT

4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED,

5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES

AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.

SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.

SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.

SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH

ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL

2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND

DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE

REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.

OWNER HAS ALSO FILED A NOTICE OF INTENT WITH THE EPA.

PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS.

DISCONNECTS WITH THE UTILITY REPRESENTATIVES.

EXECUTION OF THE WORK.

DOCUMENTS PERTAINING TO THIS PROJECT.

**Erosion Control** 

2. EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN

3. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH

4 THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE

5. UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE

CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT

RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE

OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING

DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES OR POLLUTANTS AT THE

DAMAGE, EXPENSE, DELAY, INJURY OR DEATH ARISING FROM THE PRESENCE OF

ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD

AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF

PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO

MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE

CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT

SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE [1] INCHES LOAM

### **Notes:**

#### Paving and Drainage: 1. CONTRACTOR SHALL NOTIFY SUNSHINE 811 AT LEAST 72 HOURS BEFORE EXCAVATING.

CHAIN AND EYEBOLT.

- 1. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCE BETWEEN CENTERLINES OF DRAINAGE STRUCTURES.
- 2. ALL MEDIANS AND ISLANDS TO BE FILLED WITH CLEAN SOIL.
- 3. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE 3. ALL CONCRETE DRAINAGE STRUCTURES TO BE CONSTRUCTED PER D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE NOTED.
  - 4. DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED WITH
  - 5. FIVE (5) FEET OF SOD IS REQUIRED AROUND ALL DITCH BOTTOM INLETS, MANHOLES, HEADWALLS AND MITERED END SECTIONS.
  - 6. TOP ELEVATIONS OF MANHOLES IN GRASSED AREAS SHALL BE AT MINIMUM 4 INCHES ABOVE FINISH GRADE.
  - 7. CONTRACTOR SHALL CONTACT AND COORDINATE ALL EARTHWORK ACTIVITIES WITH THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
  - 11. SIDEWALKS (WIDTHS AS SPECIFIED BY APPROPRIATE ROADWAY SECTION) ADJACENT TO ALL RESIDENTIAL LOTS TO BE INSTALLED BY HOME BUILDER. SIDEWALKS TO BE CONSTRUCTED WITH INFRASTRUCTURE SHOWN ON SHEET C5.00-C5.01.
  - 12. ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED. ANY PROPOSED MATERIAL CHANGES MUST BE APPROVED IN ADVANCE BY THE ENGINEER OF RECORD AND THE CITY OF ORLANDO.
  - 13. ALL OUTFALL PIPES FROM STORMWATER PONDS TO BE REINFORCED CONCRETE PIPE (RCP).

### Document Use

ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN 1. THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.

### Fill Material Performance Specifications

1. THE ON-SITE FILL MATERIAL SHALL CONSIST OF A CLEAN, OPEN-GRADED SAND WITH LESS THAN 5-PERCENT FINES THE MATERIAL SHALL BE FREE OF ORGANICS AND HAVE A HYDRAULIC CONDUCTIVITY OF NO LESS THAN 20 FT/DAY AND A FILLABLE POROSITY OF NO LESS THAN 30 PERCENT. THE MATERIAL SHALL BE CERTIFIED TO MEET THESE REQUIREMENTS BY A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER PRIOR TO PLACING THE FILL ON SITE.

Engineers

Planners

Designers

Suite 300

Orlando, FL 32801 P: 407.839.4006 F: 407.839.4008 Certificate of Authorization Number FL #3932

12/27/17 JK SWFWMD Comments 09/30/17 JK SWFWMD Comments 08/02/17 JK SWFWMD Comments SWFWMD Comments 04/25/17 JK Drawn by SS Checked by JK Designed by SS CAD checked by JK Scale N.T.S. June 2018

Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) & Homosassa Trail

Citrus County, Florida

Permit

Datum NGVD 29 Drawing Title

Legend and General Notes

authentication code must be verified on any

electronic copies.

Drawing Number

This item has been electronically signed and sealed by Joseph F. Kolb, Jr., PE on 05-30-18 using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1

Joseph F. Kolb, Jr., State of Florida, Professional Engineer, License No. 41964

62480.00

SUBCONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER

SUBCONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED,

UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, SUBCONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER

SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.

SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.

Suite 300 Orlando, FL 32801 P: 407.839.4006 F: 407.839.4008 Certificate of Authorization Number FL #3932

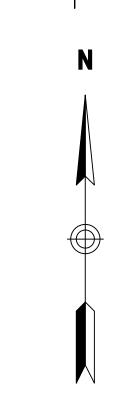
### Legend

See Erosion Control Details Symbol Description

**4** = = #

I (|P) INLET PROTECTION

CE CONSTRUCTION ENTRANCE/EXIT (TB) TURBIDITY BARRIER



4	SWFWMD Com	ments		12/27/17	JK
3	SWFWMD Com	ments		09/30/17	JK
2	SWFWMD Com	ments		08/02/17	JK
$\overline{\bigwedge}$	SWFWMD Com	ments		04/25/17	JK
No.		Revision		Date	Appvd.
Designe	ed by SS	Drawn by	SS	Checked by Jk	ζ
CAD che	ecked by JK		Approved by	JK	
Scale	As Noted		Date Jui	ne 2018	

SCALE IN FEET

### Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) & Homosassa Trail

Citrus County, Florida

Permit

Datum NGVD 29

### Stormwater Pollution Prevention Plan

This item has been electronically signed and sealed by Joseph F. Kolb, Jr., PE on 05-30-18 using a SHA-1 authentication code.

Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any

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**DESCRIPTION** 

Project Name: HOMOSASSA SPRINGS WETLAND PARCEL

Property Owner Name and Address: HOMOSASSA ASSOCIATES LLC 1701 N. FEDERAL HIGHWAY, SUITE 4 BOCA RATON, FL 33432

Project Location: S22, T19S, R17E Citrus County, Florida

Description: This project will consist of a master storm water system, a convenient store with gas pumps. The goal is to construct the parking lot, access driveways and utilities to serve the project and reduce storm water runoff from the site.

The types of soil disturbance activities include: installing a stabilized construction entrance, perimeter and other erosion and sediment controls; excavation; storm water facilities and grading; utilities; building foundations; roadway; and preparation for final planting and seeding.

Sequence of Major Soil Disturbing Activities:

- (1) Install stabilized construction entrance
- (2) Install area erosion and sedimentation controls (3) Clear/grub and grade storm water facilities
- (4) Stabilize denuded areas (5) Install utilities and storm sewer systems
- (6) Construct building foundations
- (7) Complete paving (8) Install permanent seeding and planting
- (9) Remove accumulated sediments (10) Remove erosion and sedimentation controls and

stabilize any area disturbed by their removal

Outfall Location: Dry detention pond drains into La Costa Canal.

Total Project Area = 1.88 Acres

Disturbed Area = 1.88 Acres Undisturbed Area = 0.00 Acres

Dewatering activities not anticipated for the installation utilities.

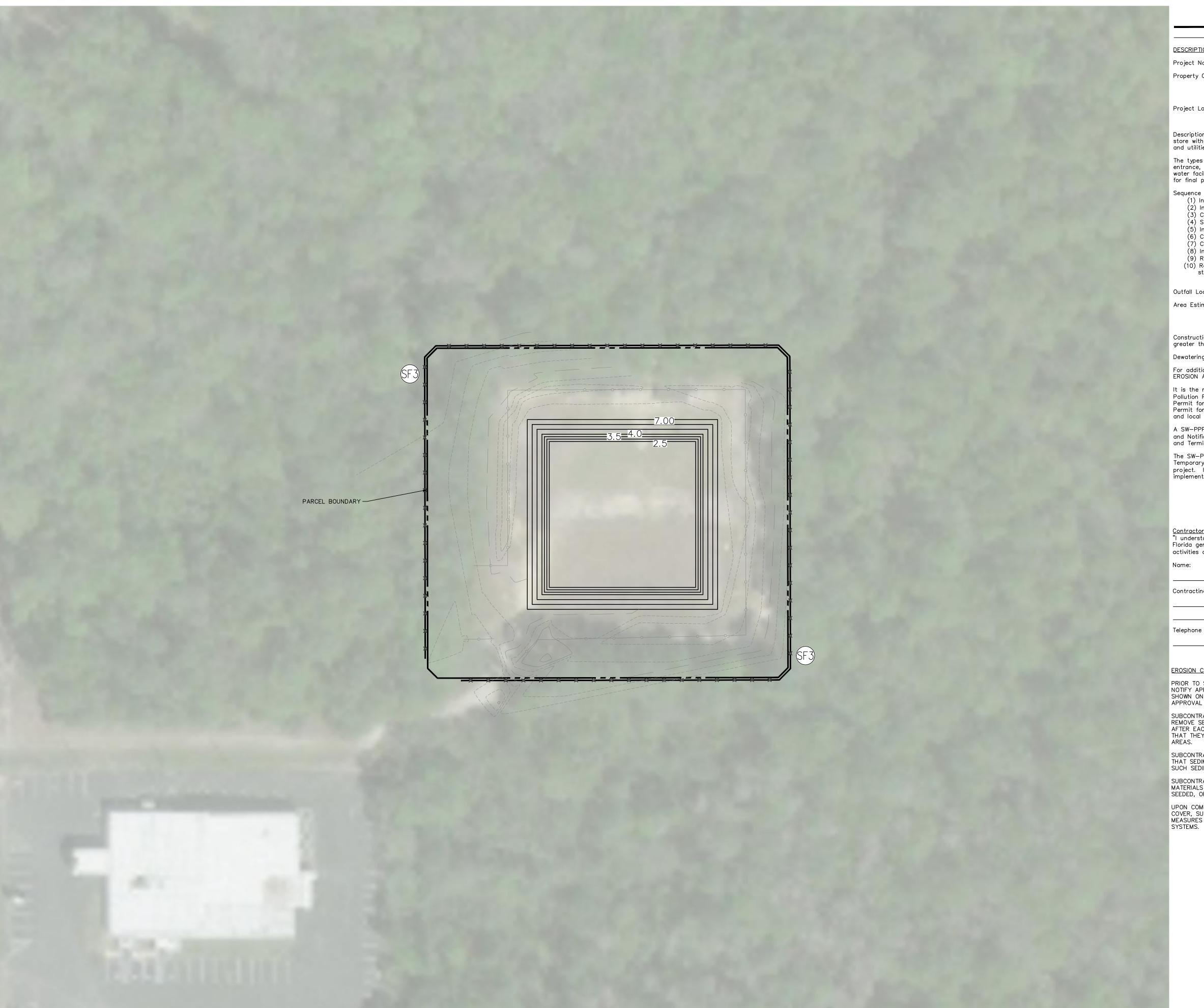
Construction site will be inspected for erosion problems daily and after each rainfall greater than 0.5 inches. A rain gage will be on site to measure rainfall amounts.

For additional information, refer to sheets LEGEND AND LOCATION MAP and SW-PPP EROSION AND SEDIMENTATION CONTROL DETAILS.

It is the responsibility of the contractor to develop and implement a Stormwater Pollution Prevention Plan (SW-PPP) in accordance with both the EPA NPDES General Permit for Stormwater Discharges from Construction Activities and the FDEP Generic Permit for Stormwater Discharges from Construction Activities and all other state and local requirements.

A SW-PPP consists of Site Design, Site Assessment, Control Selection, Certification and Notification, Construction/Implementation and Maintenance, Final Stabilization

The SW-PPP Site Map outlines the minimal requirements for installation of Temporary Erosion and Sedimentation Control where work is accomplished with the project. It is the contractor's responsibility to document field changes and implement control measures not shown on the Site Map or specifications.



#### **Construction SW-PPP Notes:**

**DESCRIPTION** 

Project Name: HOMOSASSA SPRINGS WETLAND PARCEL

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The types of soil disturbance activities include: installing a stabilized construction entrance, perimeter and other erosion and sediment controls; excavation; storm water facilities and grading; utilities; building foundations; roadway; and preparation for final planting and seeding.

Sequence of Major Soil Disturbing Activities:

(1) Install stabilized construction entrance

(2) Install area erosion and sedimentation controls (3) Clear/grub and grade storm water facilities

(4) Stabilize denuded areas (5) Install utilities and storm sewer systems

(6) Construct building foundations

(7) Complete paving

(8) Install permanent seeding and planting (9) Remove accumulated sediments (10) Remove erosion and sedimentation controls and

Outfall Location: Dry detention pond drains into La Costa Canal.

stabilize any area disturbed by their removal

Area Estimates: Total Project Area = 1.88 Acres Disturbed Area = 1.88 Acres
Undisturbed Area = 0.00 Acres

Construction site will be inspected for erosion problems daily and after each rainfall greater than 0.5 inches. A rain gage will be on site to measure rainfall amounts. Dewatering activities not anticipated for the installation utilities.

For additional information, refer to sheets LEGEND AND LOCATION MAP and SW-PPP EROSION AND SEDIMENTATION CONTROL DETAILS.

It is the responsibility of the contractor to develop and implement a Stormwater Pollution Prevention Plan (SW-PPP) in accordance with both the EPA NPDES General Permit for Stormwater Discharges from Construction Activities and the FDEP Generic Permit for Stormwater Discharges from Construction Activities and all other state

A SW-PPP consists of Site Design, Site Assessment, Control Selection, Certification and Notification, Construction/Implementation and Maintenance, Final Stabilization and Termination.

The SW-PPP Site Map outlines the minimal requirements for installation of Temporary Erosion and Sedimentation Control where work is accomplished with the project. It is the contractor's responsibility to document field changes and implement control measures not shown on the Site Map or specifications.

Contractor Certification

I understand and shall comply with the terms and conditions of the State of Florida generic permit for stormwater discharge from large and small construction activities and this stormwater pollution prevention plan thereunder.

Name:	Title:
Contracting Firm:	Address:
Telephone #:	Date:

EROSION CONTROL

PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE SUBCONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.

SUBCONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.

SUBCONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.

SUBCONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.

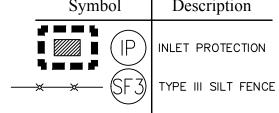
UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, SUBCONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER

Planners Designers

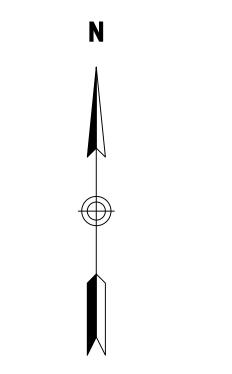
Suite 300 Orlando, FL 32801 P: 407.839.4006 F: 407.839.4008 Certificate of Authorization Number FL #3932

### Legend

See Erosion Control Details Symbol Description



(CE) ENTRANCE/EXIT (TB) TURBIDITY BARRIER





		30712			
4	SWFWMD Com	ments		12/27/17	JK
3	SWFWMD Com	ments		09/30/17	JK
2	SWFWMD Com	ments		08/02/17	JK
$\overline{\Lambda}$	SWFWMD Com	ments		04/25/17	JK
No. Revision		Revision		Date	Appvd.
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CAD checked by JK			Approved by	JK	
ale	As Noted		Date Jun	ne 2018	
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# Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) & Homosassa Trail

Citrus County, Florida

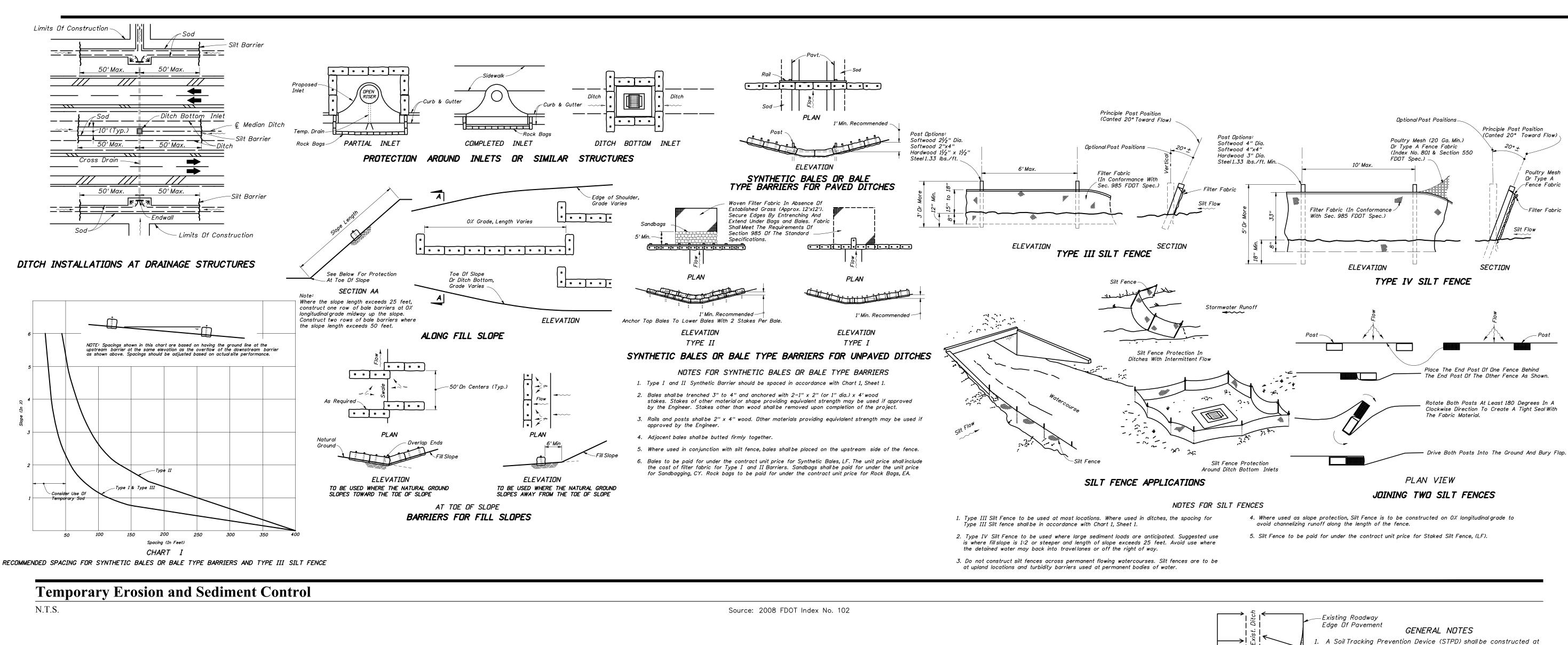
Permit

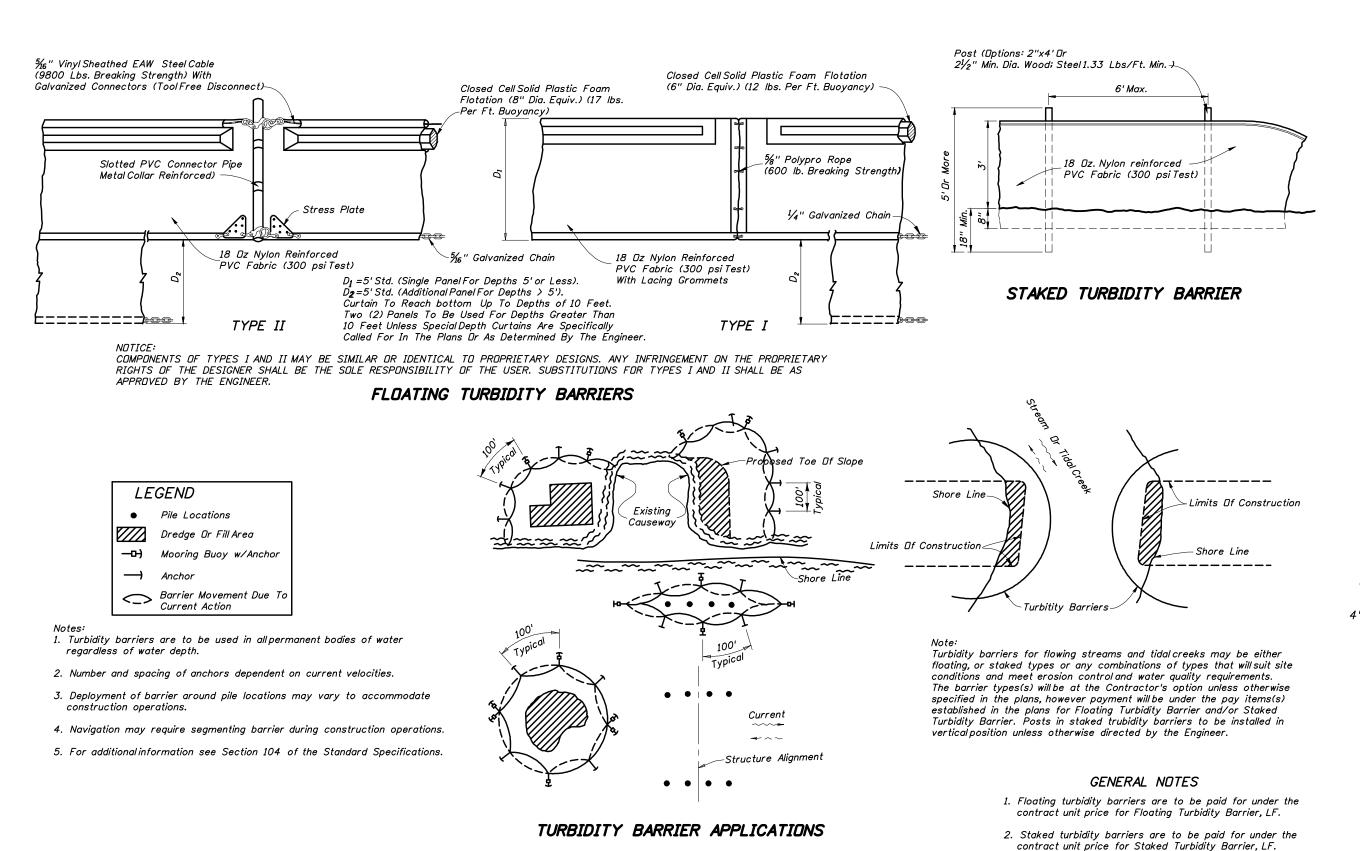
Datum NGVD 29

### Stormwater Pollution Prevention Plan

This item has been electronically signed and sealed by Joseph F. Kolb, Jr., PE on 05-30-18 using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any

Joseph F. Kolb, Jr., State of Florida, Professional Engineer, License No. 41964





Source: 2008 FDOT Index No. 103

**Turbidity Barriers** 

N.T.S.

Approach Length 50' Std. Construct Paved Turnout (Index No 515). May Be Deleted If Approved By The Engineer. Slope Drai<del>n — —</del> Synthetic Bales Sediment Pit Approach Length As Required Pit Volume Is Below The Inlet Elevation Or The Outlet Elevation, Whichever Is Lower Synthetic Bales -Filter Fabric Type D−1 Index No. 199 TRANSITION DETAIL Index No. 205 —Aggregate Slope To Drain (0.1 ft./ft. Min.)s Compacted Backfill Existing Or Temporary Sidedrain Pipe RURAL CONNECTION -To Be Stabilized As Required

**DETAIL** 

. Mitered end sections are not required when the sidedrain pipe satisfies the clear zone requirements. Permit

Joseph F. Kolb, Jr., State of Florida,

Professional Engineer, License No. 41964

The STPD shall be maintained in a condition that will allow it to perform its function. To prevent off-site tracking, the STPD shall be rinsed (daily when in use) to move accumulated mud downward thru the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.

locations designated by the engineer for points of egress from unstabilized areas of the project to public roads where off-site tracking of mud could occur. Traffic from unstabilized areas of

 $15' \times 50' = 100 \text{ ft.}^3$   $30' \times 50' = 200 \text{ ft.}^3$ 

pit volumes will satisfy this requirement:

When the STPD is isolated from other drainage areas, the following

synthetic bales or silt fence shall be placed along the entire length.

6. The swale ditch draining the STPD shall have a 0.02% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.

As an option to the sediment pit, the width of the swale bottom can be

increased to obtain the volume. When the sediment pit or swale volume

9. A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, EA. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPD; including but not limited to excavation, grading, temporary pipe (including MES when required), filter fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, sediment removal and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Synthetic Bale or Bale Type Barrier shall be paid for under the contract unit price for Synthetic Bales, LF. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, LF.

10. The nominal size of a standard STPD is 15'x 50' unless otherwise shown in the plans. If the volume of entering and existing vehicles warrant, a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2 for each location.

• •	e engineer for points of egress from project to public roads where off-site						
tracking of mud could occ	ur. Traffic from unstabilized areas of						
flagging, or other positive i	hall be directed thru a STPD. Barriers, means shall be used as required to limit						
and direct vehicular egress	across the STPD.						
<i>,</i> , ,	ose an alternative technique to minimize ent. The alternative must be reviewed an						
approved by the Engineer		4	SWFWMD	Comments		12/27/17	JK
3. All materials spilled, droppe	ed, or tracked onto public roads (including	$\sqrt{3}$	SWFWMD	Comments		09/30/17	JK
the STPD aggregate and of more frequently if so direct	construction mud) shall be removed daily, of	or $\sqrt{{2}}$	SWFWMD	Comments		08/02/17	JK
, ,	•	${1}$	SWFWMD	Comments		04/25/17	JK
Aggregates shall be FDOT	scribed in Section 901 excluding 901–2.3. size #1. If this size is not available, the	No.		Revision		Date	Appvd.
	aggregate may be substituted with the Sizes containing excessive smallaggregate	Design	ed by SS	Drawn by	33	Checked by JI	ζ
will track off the project a			necked by J	K	Approved by	JK	
	rovide a retention volume of 3600 cubic	Scale	N.T.S.		Date Jun	e 2018	
feet/acre of surface area	arainina to the pit.				•		

Engineers

**Planners** 

Designers

Suite 300

Orlando, FL 32801

Certificate of Authorization

P: 407.839.4006

F: 407.839.4008

Number FL #3932

Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) has been reduced to one half, it shall be cleaned. When a swale is used, & Homosassa Trail

Citrus County, Florida

Datum NGVD 29

electronic copies.

### **Stormwater Pollution Prevention Details**

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62480.00

Soil Tracking Prevention Device Type A

Based On Flow And Grade

SECTION AA

N.T.S. Source: 2008 FDOT Index No. 106

62480.00 - SWPPP-DT.DWG

Section B-B Profile
N.T.S.

Section C-C Profile
N.T.S.

Section A-A Profile
N.T.S.

**Engineers** Scientists **Planners** Designers



Suite 300 Orlando, FL 32801 P: 407.839.4006 F: 407.839.4008 Certificate of Authorization

Number FL #3932

1. THE FDOT CONTRACTOR IS CURRENTLY USING THE EXISTING HEADWALL AND TREATMENT DITCH AS A TEMPORARY DRAINAGE OUTFALL FOR WORK ALONG US

2. SITE CONTRACTOR TO COORDINATE ANY WORK IN THE EXISTING SOUTH DITCH, THE PROPOSED SOUTH DRIVE, AND FILLING IN OF THE AREA BETWEEN THE SOUTH DRIVEWAY AND US 19 SIDEWALK WITH FDOT CONSTRUCTION PRIOR TO ANY WORK BEING PERFORMED.

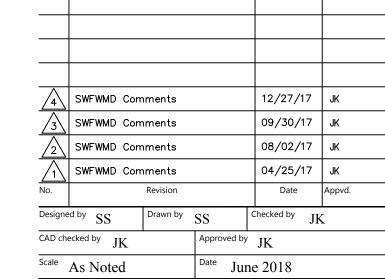
FDOT CONTACTS:

FRANK PROCH, CEI 352.503.9392

3. SITE CONTRACTOR SHALL NOT INTERFERE WITH THE

US 19 CONSTRUCTION WORK. THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DELAY CLAIMS BY THE US 19 CONTRACTOR.

4. IF THE SITE CONTRACTOR WANTS TO USE THE SOUTH CONSTRUCTION ENTRANCE WHILE THE TEMPORARY DRAINAGE OUTFALL IS BEING USED, A TEMPORARY PIPE MUST BE INSTALLED UNDER THE DRIVE TO MAINTAIN THE OUTFALL FOR THE US 19 CONSTRUCTION.



### Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) & Homosassa Trail

Citrus County, Florida

Datum NGVD 29

Joseph F. Kolb, Jr., State of Florida,

Professional Engineer, License No. 41964

## Grading & Drainage

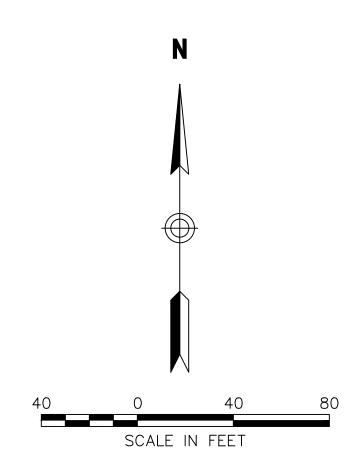
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Project Number 62480.00



Engineers

225 E. Robinson Street Suite 300 Orlando, FL 32801 P: 407.839.4006 F: 407.839.4008 Certificate of Authorization Number FL #3932



4	SWFWMD Com	nments		12/27/17	JK
3	SWFWMD Com	nments		09/30/17	JK
2	SWFWMD Com	nments		08/02/17	JK
1	SWFWMD Com	nments		04/25/17	JK
No.		Revision		Date	Appvd
Designed by SS Drawn by			SS	Checked by J	K
CAD checked by JK			Approved by	JK	
Scale	As Noted		Date Ju	ne 2018	

Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) & Homosassa Trail

Citrus County, Florida

Issued for

Permit

Datum NGVD 29

Drawing Title

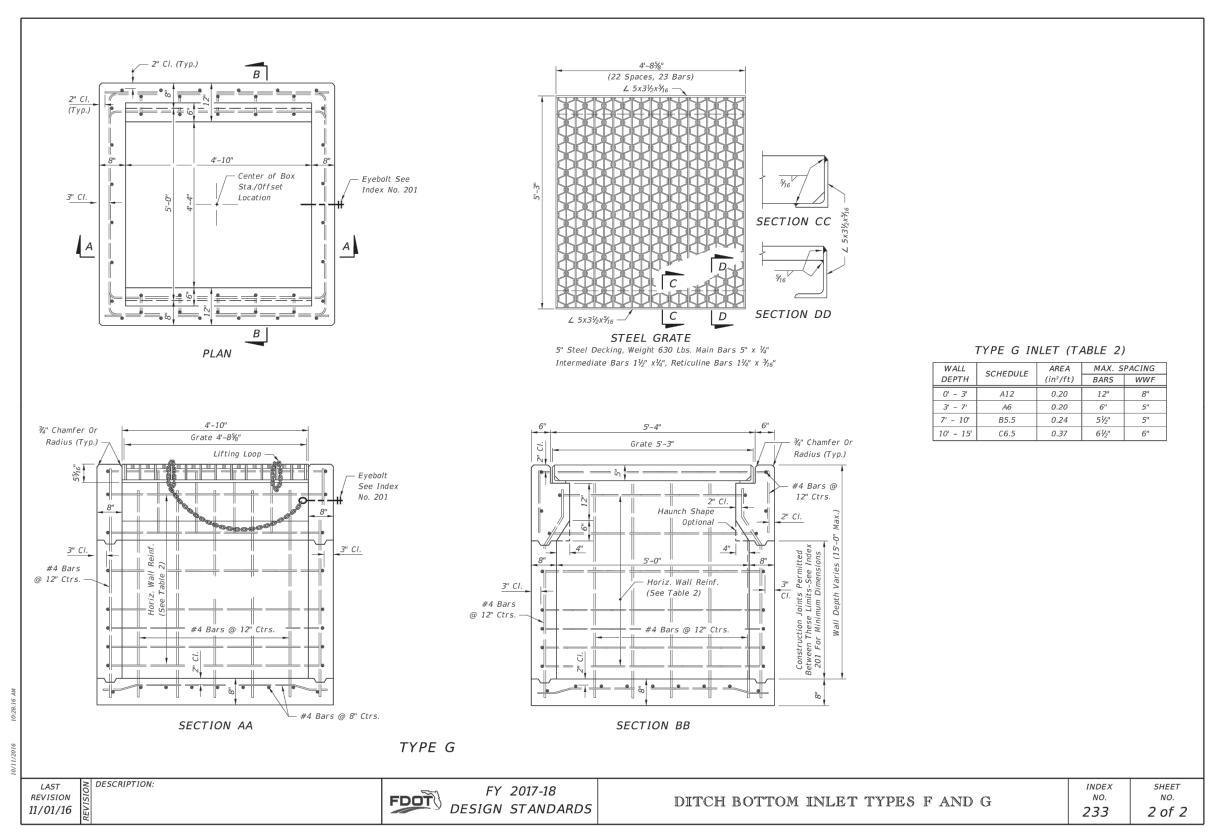
Grading & Drainage Plan

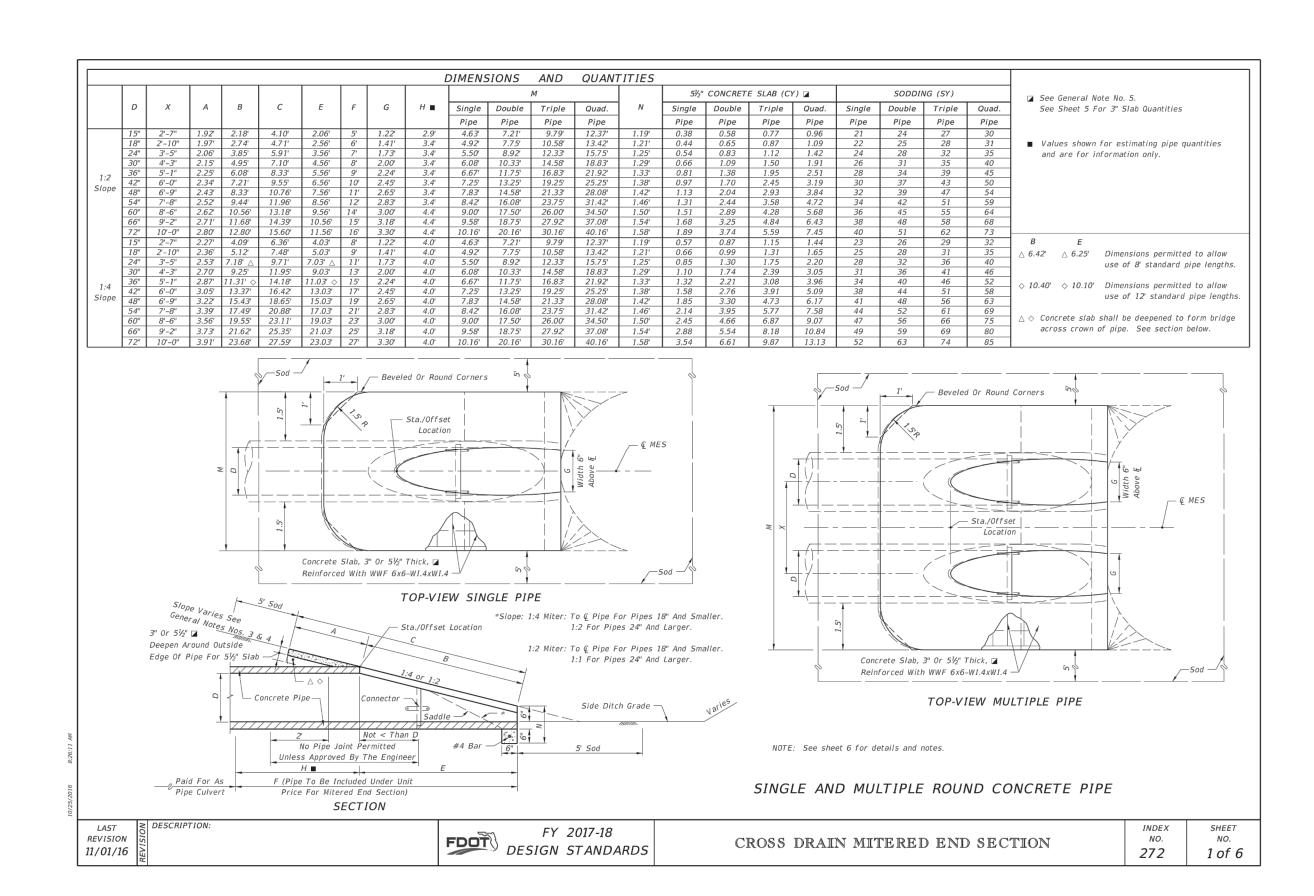
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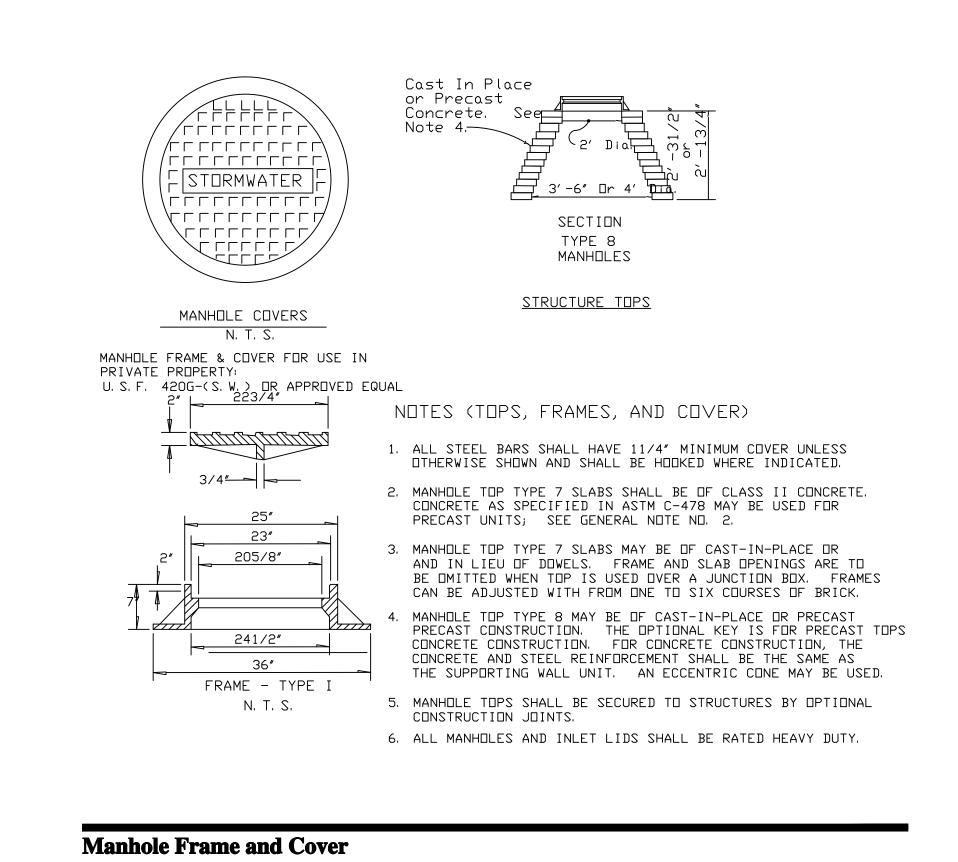
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4	SWFWMD Co	mments		12/27/17	JK
3	SWFWMD Co	mments		09/30/17	JK
2	SWFWMD Co	mments		08/02/17	JK
$\sqrt{1}$	SWFWMD Co	mments		04/25/17	JK
No.		Revision		Date	Appvd.
Designed by SS Drawn by			SS	Checked by Jk	ζ.
CAD che	ecked by JK	!	Approved by	JK	

Engineers

Planners

225 E. Robinson Stree

Certificate of Authorization

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Orlando, FL 32801 P: 407.839.4006

F: 407.839.4008

Number FL #3932

Suite 300

### Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) & Homosassa Trail

Citrus County, Florida

Permit

Datum NGVD 29

Drawing Title

Pond and Drainage Details

Drawing Number

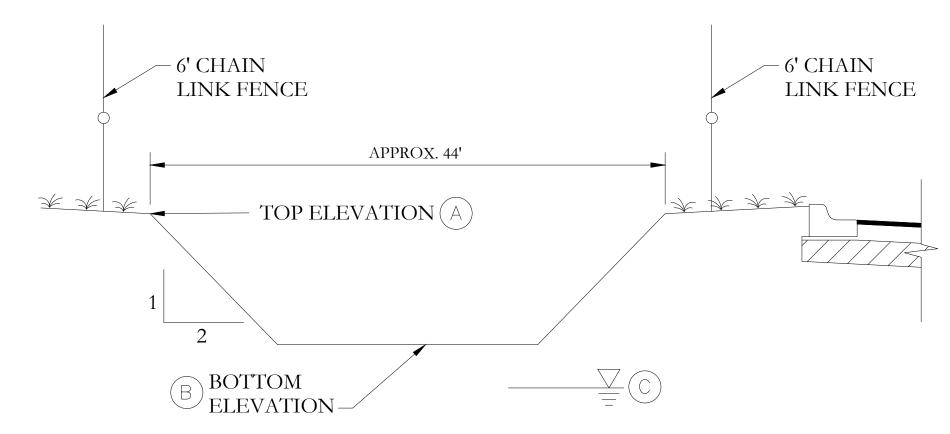
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FDOT INDEX 201

Project Number 62480.00

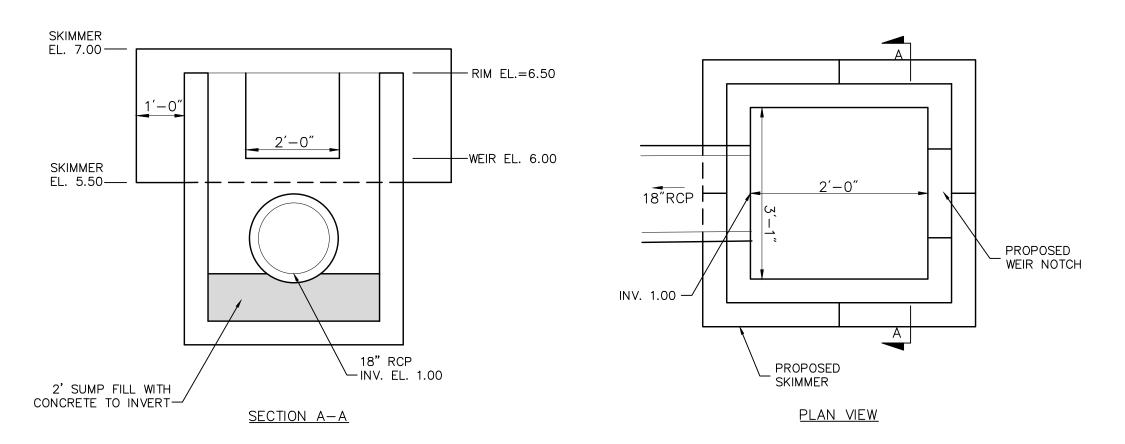




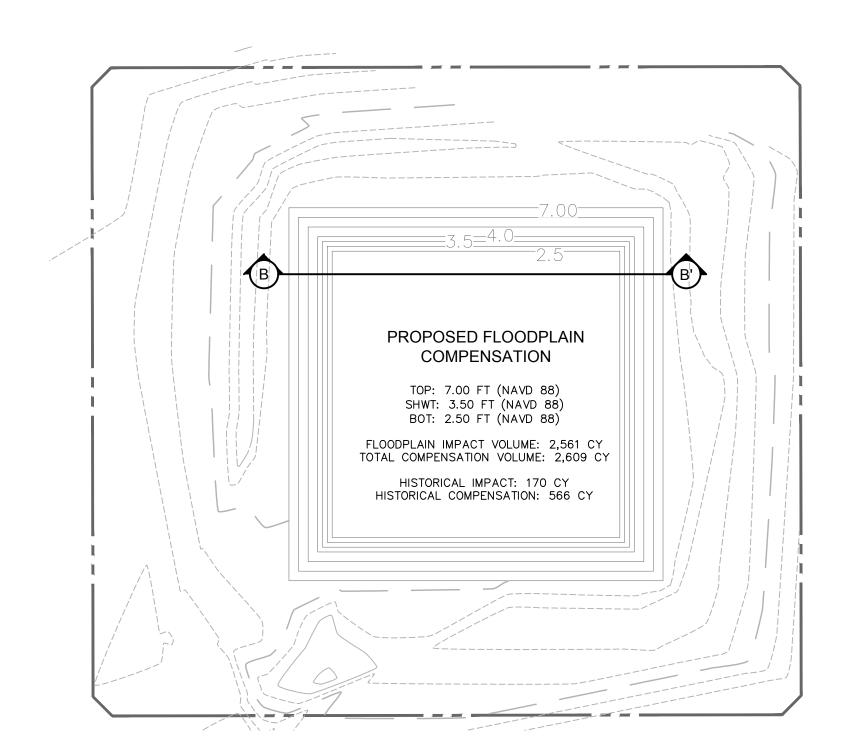
**Typical Section A-A'** 2016

### N.T.S.

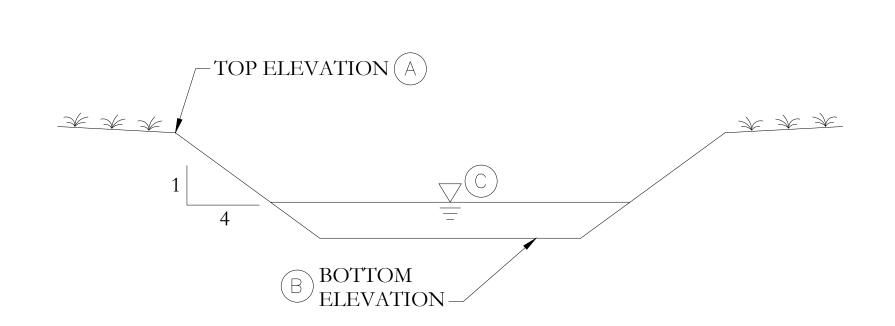
- 1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE REVIEWED BY ENGINEER FOR ALL
- DRAINAGE STRUCTURES BEFORE FABRICATION. 2. ALL BOX STRUCTURES TO INCLUDE STEEL GRATES
- & CHAINS.
- 3. A BENCH MARK IS TO BE SET ON TOP OF OUTFALL STRUCTURE.
- 4. SKIMMER TO BE MOUNTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



**Control Stucturee DS-1 - Type C** N.T.S.



**Compensation Area Plan Layout** 2016 N.T.S.



**Typical Section B-B'** 2016

### N.T.S.

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE REVIEWED BY ENGINEER FOR ALL

- DRAINAGE STRUCTURES BEFORE FABRICATION. 2. ALL BOX STRUCTURES TO INCLUDE STEEL GRATES
- & CHAINS.
- 3. A BENCH MARK IS TO BE SET ON TOP OF OUTFALL STRUCTURE.
- 4. SKIMMER TO BE MOUNTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

		TYPIC	CAL SE	CTION	TABLE		
NAME	TOP ELEVATION	B BOTTOM ELEVATION	C SHWT	WEIR INVERT	RIM ELEVATION	STRUCTURE BOTTOM ELEVATION	25 YR 24 HR DESIGN PEAK STAGE
POND 1 <sup>3.</sup>	7.00	4.55	3.80	6.00 <sup>1.</sup>	6.50 <sup>1.</sup>	$-1.00^{1.}$	6.48
COMP. AREA <sup>4.</sup>	7.00	2.50	3.50	_	_	_	4.86
SOUTH SWALE <sup>3.</sup>	7.50	2.50	_	2.	5.56 <sup>2.</sup>	2.	4.98

SEE DETAIL FOR CONTROL STRUCTURE DS-1. EXISTING CONTROL STRUCTURE TO REMAIN. REMOVE EXISTTING 1.5" ORIFICE AND REPLACE WITH  $\frac{1}{4}$ " ORIFICE WITH TURN DOWN ELBOW AT EL.=3.80. 3. ELEVATIONS IN NGVD 29 (FT).

4. ELEVATIONS IN NAVD 88 (FT).

**Pond Elevation Table** 

N.T.S.

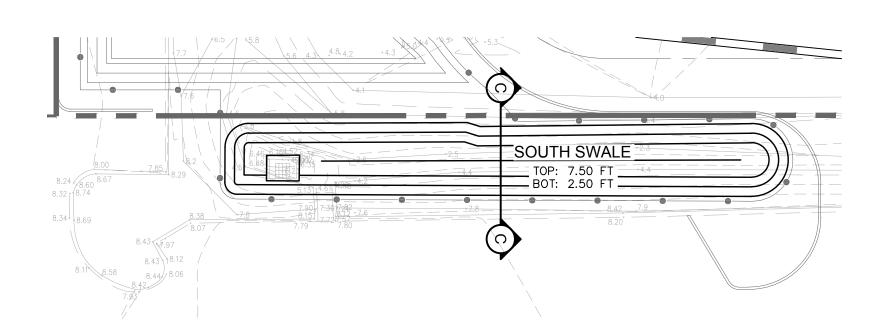


**Engineers** 

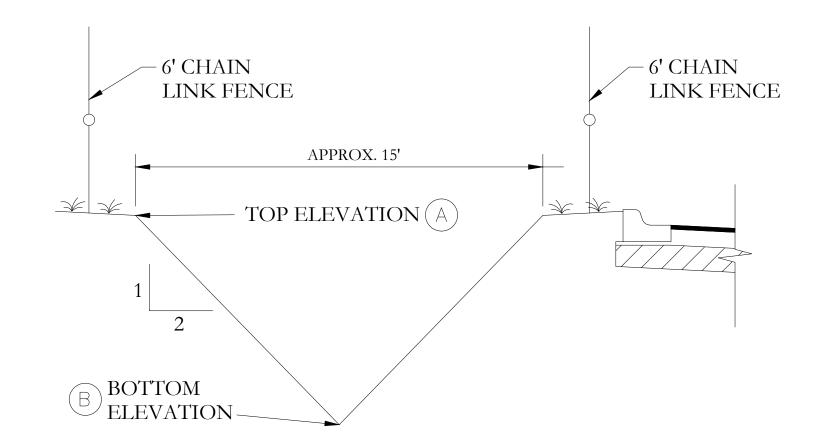
Planners

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**South Swale Plan Layout** N.T.S.



Typical Section C-C' 2016

### N.T.S.

- 1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE REVIEWED BY ENGINEER FOR ALL
- DRAINAGE STRUCTURES BEFORE FABRICATION. 2. ALL BOX STRUCTURES TO INCLUDE STEEL GRATES
- & CHAINS. 3. A BENCH MARK IS TO BE SET ON TOP OF OUTFALL STRUCTURE.
- 4. SKIMMER TO BE MOUNTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

4	SWFWMD Co	omments			12/27/17	JK
3	SWFWMD Co	omments			09/30/17	JK
2	SWFWMD Co	omments			08/02/17	JK
$\sqrt{1}$	SWFWMD Co	omments			04/25/17	JK
No.		Revision			Date	Appvd.
Designe	d by SS	Drawn by	SS	1	Checked by JI	ζ.
CAD che	ecked by JK		Approve	d by	JK	
Scale	N.T.S.		Date	Jun	e 2018	

Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) & Homosassa Trail

Citrus County, Florida

Permit

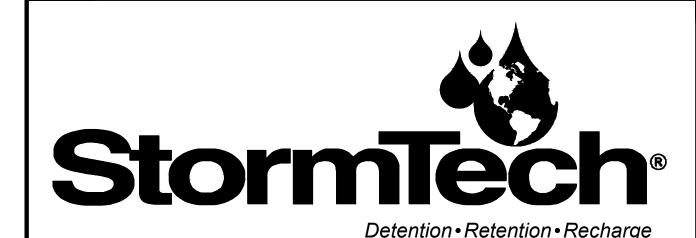
Datum NGVD 29

Pond and Drainage Details

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62480.00

Joseph F. Kolb, Jr., State of Florida, Professional Engineer, License No. 41964



Subsurface Stormwater Management™

### STORMTECH GENERAL NOTES

STORMTECH LLC ("STORMTECH") REQUIRES INSTALLING CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.

**OUR TECHNICAL SERVICES DEPARTMENT OFFERS** INSTALLATION CONSULTATIONS TO INSTALLING CONTRACTORS. CONTACT OUR TECHNICAL SERVICES REPRESENTATIVE AT LEAST 30 DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE A PRE-INSTALLATION CONSULTATION. OUR REPRESENTATIVES CAN THEN ANSWER QUESTIONS OR ADDRESS COMMENTS ON THE STORMTECH CHAMBER SYSTEM AND INFORM THE INSTALLING CONTRACTOR OF THE MINIMUM INSTALLATION REQUIREMENTS BEFORE BEGINNING THE SYSTEM'S CONSTRUCTION. CALL 1-888-892-2694 TO SPEAK TO A TECHNICAL SERVICE REPRESENTATIVE OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF OUR INSTALLATION INSTRUCTIONS.

STORMTECH'S REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN (ASPHALT, CONCRETE PAVERS, ETC.) MINIMUM COVER IS 18 INCHES NOT INCLUDING PAVEMENT MAXIMUM COVER IS 96 INCHES INCLUDING PAVEMENT. FOR INSTALLATIONS THAT DO NOT INCLUDE PAVEMENT, WHERE RUTTING FROM VEHICLES MAY OCCUR, MINIMUM REQUIRED COVER IS 24 INCHES, MAXIMUM COVER IS 96 INCHES.

THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.

AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC) MUST BE USED AS INDICATED IN THE PROJECT PLANS.

6. STONE PLACEMENT BETWEEN CHAMBERS ROWS AND AROUND PERIMETER MUST FOLLOW INSTRUCTIONS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.

- 7. BACKFILLING OVER THE CHAMBERS MUST FOLLOW REQUIREMENTS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
- 8. THE CONTRACTOR MUST REFER TO STORMTECH'S INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS ALSO AVAILABLE AT STORMTECH'S WEBSITE: WWW.STORMTECH.COM. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE STORMWATER SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.
- THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION PER LOCAL CODES AND DESIGN ENGINEER'S SPECIFICATIONS.
- 10. STORMTECH PRODUCT WARRANTY IS LIMITED. SEE CURRENT PRODUCT WARRANTY FOR DETAILS. TO ACQUIRE A COPY CALL STORMTECH AT 1-888-892-2694 OR VISIT **WWW.STORMTECH.COM**.

### STORMTECH PRODUCT SPECIFICATIONS

STORMTECH CHAMBERS ARE DESIGNED TO CONTROL STORMWATER RUNOFF. AS A SUBSURFACE RETENTION SYSTEM, STORMTECH CHAMBERS RETAIN AND ALLOW EFFECTIVE INFILTRATION OF WATER INTO THE SOIL. AS A SUBSURFACE DETENTION SYSTEM, STORMTECH CHAMBERS DETAIN AND ALLOW FOR THE METERED FLOW OF WATER TO AN OUTFALL.

### CHAMBER PARAMETERS

THE CHAMBER SHALL BE INJECTION MOLDED OF POLYPROPYLENE RESIN TO BE INHERENTLY RESISTANT TO ENVIRONMENTAL STRESS CRACKING (ESCR), AND TO MAINTAIN ADEQUATE STIFFNESS THROUGH HIGHER TEMPERATURES EXPERIENCED DURING INSTALLATION AND SERVICE.

THE NOMINAL CHAMBER DIMENSIONS OF THE STORMTECH SC-740 SHALL BE 30.0 INCHES TALL, 51.0 INCHES WIDE AND 90.7 INCHES LONG. THE NOMINAL CHAMBER DIMENSIONS OF THE STORMTECH SC-310 SHALL BE 16.0 INCHES TALL, 34.0 INCHES WIDE AND 90.7 INCHES LONG. THE INSTALLED LENGTH OF A JOINED

- CHAMBER SHALL BE 85.4 INCHES.
- THE CHAMBER SHALL HAVE A CONTINUOUSLY CURVED SECTION PROFILE.
- 2.5 THE CHAMBER SHALL BE OPEN-BOTTOMED.

THE CHAMBER SHALL INCORPORATE AN OVERLAPPING CORRUGATION JOINT SYSTEM TO ALLOW CHAMBER ROWS OF ALMOST ANY LENGTH TO BE CREATED. THE OVERLAPPING CORRUGATION JOINT SYSTEM SHALL BE EFFECTIVE WHILE ALLOWING A CHAMBER TO BE

TRIMMED TO SHORTEN ITS OVERALL LENGTH.

THE NOMINAL STORAGE VOLUME OF A JOINED STORMTECH SC-740 CHAMBER SHALL BE 74.9 CUBIC FEET PER CHAMBER WHEN INSTALLED PER STORMTECH'S TYPICAL DETAILS (INCLUDES THE VOLUME OF CRUSHED ANGULAR STONE WITH AN ASSUMED 40% POROSITY). THIS EQUATES TO 2.2 CUBIC FEET OF STORAGE/SQUARE FOOT OF BED. THE NOMINAL STORAGE VOLUME OF AN INSTALLED STORMTECH SC-310 CHAMBER SHALL BE 31.0 CUBIC FEET PER CHAMBER WHEN INSTALLED PER STORMTECH'S TYPICAL DETAILS (INCLUDES THE VOLUME OF CRUSHED ANGULAR STONE WITH AN ASSUMED 40% POROSITY). THIS EQUATES TO 1.3 CUBIC

FEET OF STORAGE/SQUARE FOOT OF BED. THE CHAMBER SHALL HAVE FORTY-EIGHT ORIFICES PENETRATING THE SIDEWALLS TO ALLOW FOR LATERAL

CONVEYANCE OF WATER.

2.8 THE CHAMBER SHALL HAVE TWO ORIFICES NEAR ITS TOP TO ALLOW FOR EQUALIZATION OF AIR PRESSURE BETWEEN ITS INTERIOR AND EXTERIOR.

2.9 THE CHAMBER SHALL HAVE BOTH OF ITS ENDS OPEN TO ALLOW FOR UNIMPEDED HYDRAULIC FLOWS AND VISUAL INSPECTIONS DOWN A ROW'S ENTIRE LENGTH.

2.10 THE CHAMBER SHALL HAVE 14 CORRUGATIONS.

2.11 THE CHAMBER SHALL HAVE A CIRCULAR, INDENTED, FLAT SURFACE ON THE TOP OF THE CHAMBER FOR AN OPTIONAL 4-INCH INSPECTION PORT.

2.12 THE CHAMBER SHALL BE ANALYZED AND DESIGNED USING AASHTO METHODS FOR THERMOPLASTIC CULVERTS CONTAINED IN THE LRFD BRIDGE DESIGN SPECIFICATIONS, 2ND EDITION, INCLUDING INTERIM SPECIFICATIONS THROUGH 2001. DESIGN LIVE LOAD SHALL BE THE AASHTO HS20 TRUCK. DESIGN SHALL CONSIDER EARTH AND LIVE LOADS AS APPROPRIATE

2.13 FOR THE MINIMUM TO MAXIMUM SPECIFIED DEPTH OF FILL.

3.0 THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2000 CERTIFIED FACILITY.

**END CAP PARAMETERS** 

THE END CAP SHALL BE INJECTION MOLDED OF POLYETHYLENE RESIN TO HELP FACILITATE FACTORY 3.2 MANUFACTURED PIPE FITTINGS.

THE END CAP SHALL BE DESIGNED TO FIT INTO ANY CORRUGATION OF A CHAMBER, WHICH ALLOWS: CAPPING A CHAMBER THAT HAS ITS LENGTH TRIMMED: SEGMENTING ROWS INTO STORAGE BASINS OF

3.3 VARIOUS LENGTHS. THE END CAP SHALL HAVE SAW GUIDES TO ALLOW EASY

CUTTING FOR VARIOUS DIAMETERS OF PIPE THAT MAY

3.4 BE USED TO INLET THE SYSTEM. THE END CAP SHALL HAVE EXCESS STRUCTURAL

ADEQUACIES TO ALLOW CUTTING AN ORIFICE OF ANY 3.5 SIZE AT ANY INVERT ELEVATION.

THE PRIMARY FACE OF AN END CAP SHALL BE CURVED OUTWARD TO RESIST HORIZONTAL LOADS GENERATED NEAR THE EDGES OF BEDS.

THE END CAP SHALL BE MANUFACTURED IN AN ISO 9001:2000 CERTIFIED FACILITY.

### STORMWATER CHAMBER SPECIFICATIONS

Chambers shall be StormTech SC-740 or approved equal.

- 1. Chambers shall conform to the requirements of ASTM F2418-05, "Standard Specification for Polypropylene (PP) Corrugated Wall Stormwater Collection
- 2. Chamber rows shall provide continuous, unobstructed internal space with no internal support panels.
- 3. The structural design of the chambers, the structural backfill and the installation requirements shall ensure that the load factors specified in the AASHTO LRFD Bridge Design Specifications, Section 12.12 are met for: 1) long-duration dead loads and 2) short-duration live loads, based on the AASHTO Design Truck with consideration for impact and multiple vehicle
- 4. Only chambers that are approved by the engineer will be allowed. The contractor shall submit (3 sets) of the following to the engineer for approval before delivering chambers to the project site:
  - a. A structural evaluation by a registered structural engineer that demonstrates that the load factors specified in the AASHTO LRFD Bridge Design Specifications, Section 12.12 are met. The 50-year creep modulus data specified in ASTM 2418-05 must be used as part of the AASHTO structural evaluation to verify long-term
  - b. A certification by the manufacturer that the chambers are in accordance with ASTM F2418-05.
- 6. Chambers shall be produced at an ISO 9001 certified manufacturing facility. 7. All design specifications for chambers shall be in accordance with the
- manufacturer's latest design manual. 8. The installation of chambers shall be in accordance with the manufacturer's latest installation instructions.

### **INSPECTION & MAINTENANCE**

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT

A. INSPECTION PORTS (IF PRESENT) A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN

A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND

RECORD ON MAINTENANCE LOG A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)

A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR ROWS

B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET

i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY

ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m)

OR MORE IS PREFERRED B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

### **NOTES**

TO STEP 3.

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.

2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

Engineers

Planners Designers

Suite 300

NOTE:

Orlando, FL 32801

Number FL #3932

Certificate of Authorization

DETAILS ON THIS SHEET ARE NOT TO BE USED INSIDE FDOT RIGHT-OF-WAY

P: 407.839.4006 F: 407.839.4008

12/27/17 JK SWFWMD Comments 09/30/17 JK SWFWMD Comments 08/02/17 JK SWFWMD Comments 04/25/17 JK SWFWMD Comments Drawn by SS Designed by SS Checked by JK CAD checked by Approved by JK

Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) & Homosassa Trail

June 2018

Citrus County, Florida

Scale N.T.S.

Permit

Datum NGVD 29

### Pond and Drainage Details

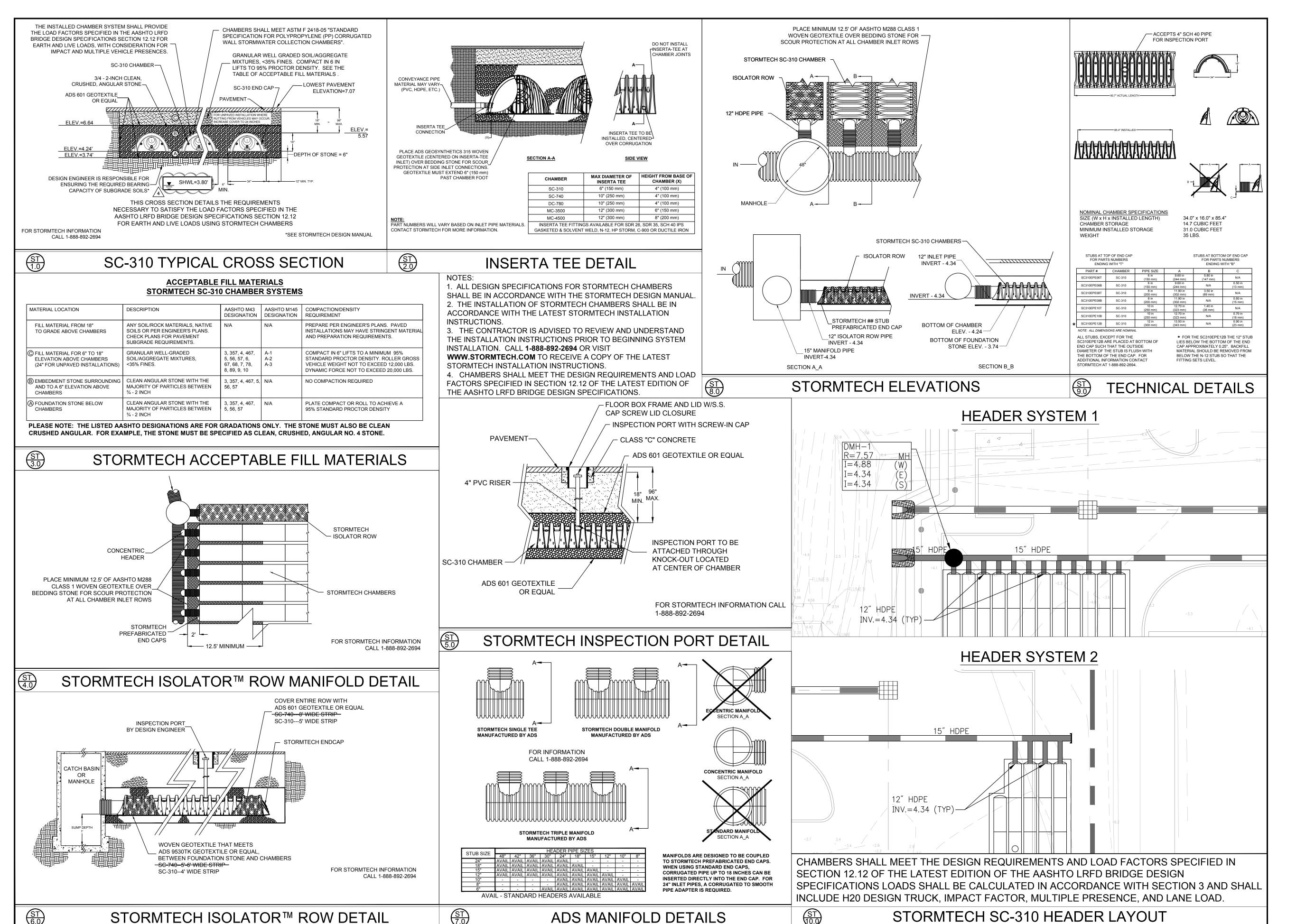
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Project Number

Joseph F. Kolb, Jr., State of Florida, Professional Engineer, License No. 41964 62480.00





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Designed by SS	Drawn by	SS	Checked by JI	ζ.
No.	Revision		Date	Appvd.
1 SWFWMD	SWFWMD Comments		04/25/17	JK
2 SWFWMD	Comments		08/02/17	JK
3 SWFWMD	SWFWMD Comments			JK
4 SWFWMD	Comments		12/27/17	JK

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