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July 12, 2022

Aristida Homeowners Association, Inc  
c/o Wise Property Management, Inc. / Joseph Vilardi, LCAM  
18550 N. Dale Mabry Hwy.  
Lutz, FL 33548

Re: **SWFWMD ERP – 2022 Stormwater System Permit Renewal Inspection Report**  
SWFWMD Project Name: **Aristida - Phase 2** (47.05 acres)  
Permit No. 40 002878.008 / Pasco County

CES Engineering has inspected the stormwater retention system located at the subject property on June 08, 2022. This inspection was performed to determine if the system is being maintained and operated according to the conditions of the SWFWMD-issued permit. Before Michael Cammisa, P.E., can complete and submit the appropriate inspection form to SWFWMD there are some maintenance and/or compliance issues that were observed that we recommend be addressed, as follows.

- The Flared End Section (FES)/Pipe ends of the pipes that convey water from the roadside swales and connect to the swales that then flow to the wetlands, have excessive silt build up and vegetation in pipe ends and at the discharge or inlet areas. We recommend clearing the pipe ends and discharge areas. (See images #1, 2, 3 & 8)
- The swales that flow to the wetland have a build up of silt and vegetation that has accumulated over the years. The swales should be excavated, re-cut and/or graded to enable proper flow. (See images #2 & 3 and 8, 9, and 10)
- The concrete Weir Structures located at the end of the swales that discharge to the wetland have vegetation and overgrowth around the structures and inside the Skimmers that should be removed/cleared. Any silt build up under the skimmer should be removed to allow for a 4" to 6" gap. (See images #4 & 5 and 10)
- Once the overgrowth on the discharge side of the Weir Structures is removed/cleared, they will likely require some excavation or re-trenching to ensure proper flow into the wetlands. (See images #4 & 5 and 10)
- The roadside swales also have some silt build up and vegetation that has accumulated in the swales and around some of the pipe ends and/or other structures, but it's not as bad as swales that flow off the road to the wetland. It appears the homeowners or others are taking care of most of these. However, some areas may still need some attention (See images #1, 6, & 7)

- The FES/Pipe end and inlet area of the pipe that receives flow from the swale that collects water from east boundary and flows under the road to the wetland to the west has excessive silt build up and vegetation that should be cleared. (See images #11)
- That swale also has some build up of silt and vegetation that has accumulated over the years. The HOA may want to consider some excavation, re-cutting and/or grading of this swale to enable proper flow. (See image #11)
- The connecting pipe on the opposite side of the road has excessive overgrowth and is barely visible. It should be cleared and inspected. The swale that flows from the pipe end into the wetland will probably need to be re-trenched. (See image #12)
- There are concrete Weir Structures that receive run off from the road and discharge to the wetlands that have excessive vegetation around the structures and inside the skimmers (near the end of Haltata) that should be cleared. One is completely overgrown. Any silt build up under the skimmers should be removed. These may also require some re-trenching to ensure proper flow into the wetlands. (See image #13)
- There are concrete Weir Structures in the swale on the east side of the permitted area (behind the homes) that discharge to the wetland that have excessive vegetation around the structures and inside the skimmers that should be cleared. Any silt build up under the skimmers should be removed. They may also require some re-trenching to ensure proper flow into the wetlands. (See image #14 & 15)
- There are also concrete Weir structures in the swale on the west side of the permitted area (behind the homes on Alico Pass) that discharge to the wetland that have excessive vegetation around the structures and inside the skimmers that should be cleared. Any silt build up under the skimmer should be removed. They may also require some re-trenching to ensure proper flow into the wetlands. (See images #16)
- Some of the pipe ends in the connector piping systems on the west side of the permitted area (on Alico Pass) have silt build up and may need some minor clearing (See image #17)
- At the time of our inspection there were some lawn areas that appeared to be damaged by feral hogs. One resident (5337 Haltata) complained about this to me while I was on site. She said they were getting through the fence of the adjoining conservation land that is under SWFWMD jurisdiction. She also mentioned that Michael May who is a board member was addressing the matter .(See images #9 & 18)

*Note: Example images of most of the issues are attached below. Please note that there are not images of every issue but the example images are indicative of other similar type issues. A site plan is also attached with the images locations.*

**SUMMARY:**

The overall stormwater system is presently in need of some maintenance. The facility is on a 60 month inspection cycle which sometimes allows for things to go unattended until the permit renewal comes up or a complaint is filed. Although some of the issues are minor, all are the type of issues that will only get worse and cost more to repair later, if not addressed. When the issues are corrected, a re-inspection of the stormwater system will be arranged and the appropriate paperwork completed for submission to SWFWMD.

At your request, CES Engineering can prepare an estimate quote to correct these issues. If you have any questions regarding the inspection report, please feel free to call me or Michael Cammisa, P.E., at (813) 969-2366.

Sincerely  
CES ENGINEERING, INC.

Richard Gagen  
Project Manager

Project Manager

Example Images



Image 1: FES/Pipe inlet connects road swale to swale that discharges to wetland



Image 2: FES/Pipe discharges to wetland via swale excessive silt & vegetation build up at pipe end.



Image 3: Opposite view, swale filled in should be to bottom of pipe



Image 4: Weir Structure & Skimmer at end of swale, discharges to wetland, needs clearing,



Image 5: Discharge side of weir, needs clearing, possibly re-trenching



Image 6: Ditch check (weir) silt build up & Vegetation in roadside swale

Example Images



Image 7: MES/Pipe, silt build and vegetation in Roadside swale



Image 8: FES/Pipe in swale that flows to wetland excessive silt & vegetation build up at pipe end



Image 9: Center area of swale,



Image 10: Weir Structure at wetland discharge area



Image 11: FES/Pipe inlet collects water from east boundary flows under road



Image 12: Connecting Fes/Pipe on opposite side of road barely visible, needs clearing

Example Images



Image 13: Weir, Skimmer road run off, need clearing



Image 14: Weir Structure, Skimmer east swale, needs clearing



Image 15: Weir Structure, Skimmer east swale, completely overgrown, needs clearing



Image 16: Weir Structure, Skimmer west swale, needs clearing

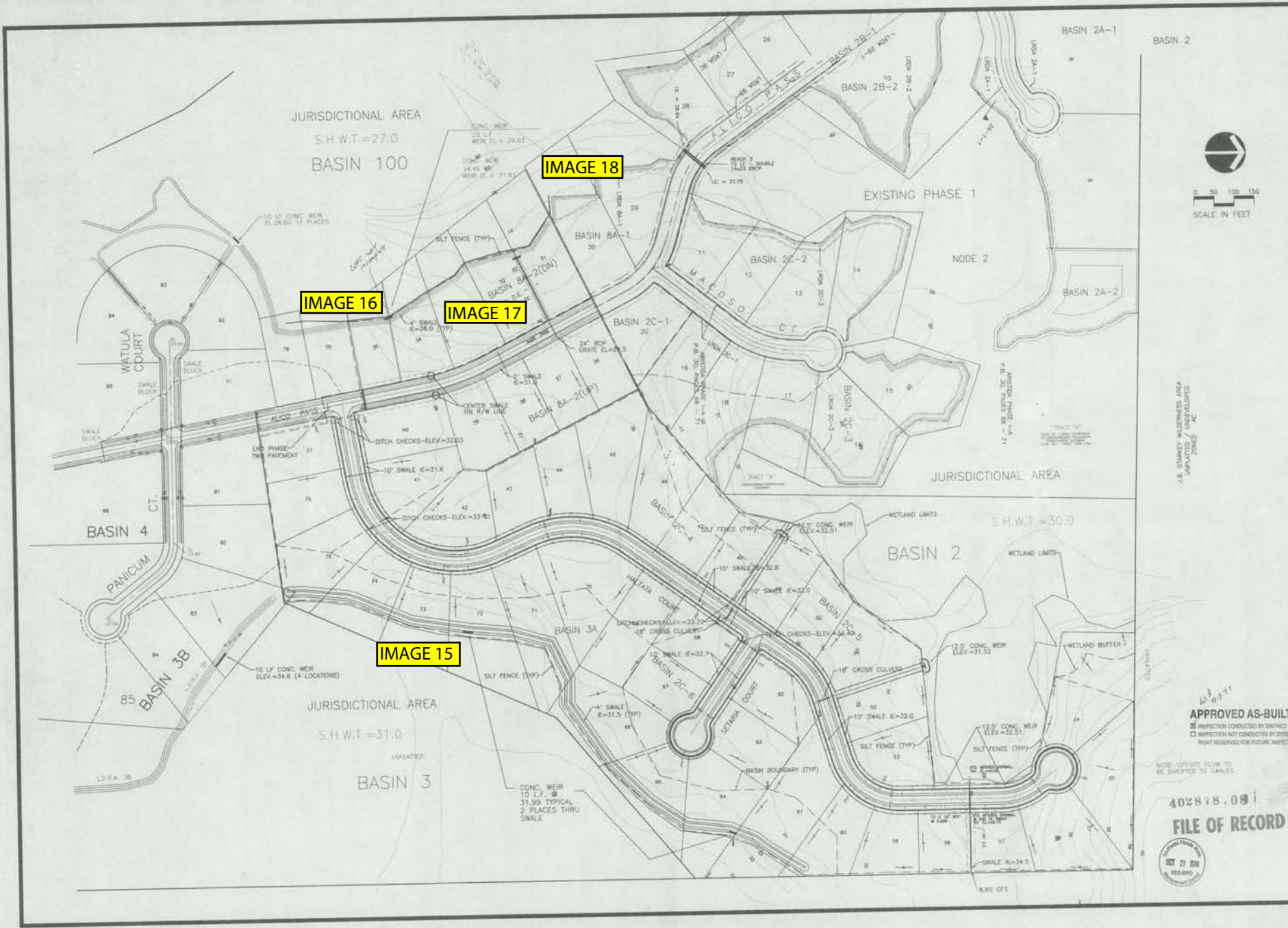


Image 17: Pipe in connector system under rod



Image 18: MES/Discharge, Feral hog damage





JURISDICTIONAL AREA  
S.H.W.T.=27.0  
BASIN 100

IMAGE 16

IMAGE 18

IMAGE 17

IMAGE 15

JURISDICTIONAL AREA  
S.H.W.T.=31.0  
BASIN 3

EXISTING PHASE 1

JURISDICTIONAL AREA

BASIN 2  
S.H.W.T.=30.0

BASIN 2A-1  
BASIN 2



J.B. STARKLEY WILDERNESS AREA  
UNPLATTED UNDEVELOPED  
ZONED AC

APPROVED AS-BUILTS  
 INSPECTION CONDUCTED BY DISTRICT  
 INSPECTION NOT CONDUCTED BY DISTRICT  
 RIGHT RESERVED FOR FUTURE INSPECTION

NOTE: OPTIC FLOW TO BE EMERGED TO SWALES

402848.001  
FILE OF RECORD



PROJECT NO.	11-13-14	DATE	11-13-14
PROJECT NAME	11-13-14	SCALE	1" = 100'
DESIGNER	11-13-14	DATE	11-13-14
CHECKER	11-13-14	DATE	11-13-14
APPROVED	11-13-14	DATE	11-13-14
PROJECT LOCATION	11-13-14	DATE	11-13-14
PROJECT DESCRIPTION	11-13-14	DATE	11-13-14
PROJECT STATUS	11-13-14	DATE	11-13-14
PROJECT OWNER	11-13-14	DATE	11-13-14
PROJECT CONTACT	11-13-14	DATE	11-13-14
PROJECT ADDRESS	11-13-14	DATE	11-13-14
PROJECT PHONE	11-13-14	DATE	11-13-14
PROJECT FAX	11-13-14	DATE	11-13-14
PROJECT EMAIL	11-13-14	DATE	11-13-14
PROJECT WEBSITE	11-13-14	DATE	11-13-14
PROJECT SOCIAL MEDIA	11-13-14	DATE	11-13-14
PROJECT OTHER	11-13-14	DATE	11-13-14

CASSON ENGINEERING COMPANY  
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ARISTIDA PHASE 2  
 CONSTRUCTION PLANS  
 MASTER DRAINAGE PLAN REVISED

DATE: 10-25-16  
 DRAWN BY: [Signature]



