DRAINAGE PROJECTS AS OF 3/8/2019

### APPROVED PENDING PROJECTS

**HERON WALK DRIVE DRAINAGE AND ROADWAY REPAIRS**

- Engineer study approved to research drainage and roadway repairs for Heron Walk Drive

**WALLS ALONG ENTRY TO THE TUNNEL UNDER HWY 98**

- Engineer study being done to propose replacement of the walls along the entryway to the Hwy 98 tunnel

### RECLAIM WATER INITIATIVE

- Red lines indicate existing feeds to the SOA pumps so reclaim water is able to be used for irrigation. The yellow line indicates a possible new line to the Burnt Pine golf course pump in order to allow SDI to irrigate the golf course with reclaimed water. This change would allow the SOA to irrigate within the limits of the Consumptive Use permit, which is currently being exceed by 20%. An engineer study is being done to evaluate the logistics of this project.

### HERONWALK LAKE WEIR and OUTFALL

- 10/18/18 Board Approved $115K for outfall cleaning and weir improvements.

  **2/2019** – Outfall clean out complete. Weir renovation to be done over the next several weeks.
**STORM WATER TRANSFER SOUTH TO NORTH**

There is currently no solution for this; however, discussion is underway with Regional Utilities to use an abandoned sewage-line pipe after sanitizing. Staff has been in contact with Regional Utilities but nothing has been confirmed as of yet. 12/28/18 - Utilizing Regional Utilities lines are not an option; therefore, alternate solutions are being researched.

3/2019 – Design work is being done to modify the outlet structure in the Beachwalk lake. This is Phase 1 to resolve this issue. Feasibility of Phase II still being studied which would be to install a larger pipe from the Beachwalk Lake to the North side of the community.

**NORTH PUMP TO BAYTOWNE AVE “LOOP” CONNECTOR**

There is currently no connection from the North Pump Station to other pumping systems. Connecting this to other stations will give the SOA a much needed back-up system that would allow four of the SOA’s irrigation pump stations to work together in the event of an emergency. The cost to install a pipe to connect the stations is approximately $90K. Further evaluation of this project is underway.

**LAKE DREDGING**

The Board approved $600K from drainage reserves to dredge 7 lakes in order to improve the flow of storm water from lake to lake, increase capacity of each lake and improve water quality.

<table>
<thead>
<tr>
<th>Baytowne Ave (across from the Tennis Center)</th>
<th>Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entrance to Genoa</td>
<td></td>
</tr>
<tr>
<td>Sandestin Blvd N, across from Bayou</td>
<td>Complete</td>
</tr>
<tr>
<td>Heronwalk Lake (on left and</td>
<td>Complete</td>
</tr>
<tr>
<td>St. Andrews Lake (on right)</td>
<td></td>
</tr>
<tr>
<td>Prestwick Lake</td>
<td>Underway</td>
</tr>
</tbody>
</table>
### RECENTLY COMPLETED – 2018-2019

**BEACHWALK VILLAS DRAINAGE SWALES**

Jan 2019 – Swales created between homes in Beachwalk Villas to improve storm water drainage from the roadway to the lake.

### GEOJOBE SURVEY

Board approved a LIDAR Survey to be done by Geojobe for the entire community, done by a Drone. This data will provide drain locations, elevations, etc. to assist in designing drainage improvement projects.

Completed Fall 2018

### FAIRWAYS DRAINAGE PIPE MODIFICATION

The pipe in the lake on Links hole #5 is too small, possibly causing flooding in this area. 10/18/18- Board approved $125K to install a larger pipe.

2/2019 – This project is complete.