

**MINUTES  
HARBOUR HEIGHTS WATERWAY  
MUNICIPAL SERVICE BENEFIT UNIT (MSBU)**

**ADVISORY BOARD REGULAR MEETING  
WEDNESDAY, FEBRUARY 23, 2022**

**10:00 a.m. – 11:36 a.m.  
East Port Environmental Campus  
25550 Harborview Boulevard, Port Charlotte, Florida**

**Members Present:** Lee Phillips, Chair  
Maggie Scott, Vice-Chair  
James McBride  
Perrin Peterson

**Members Absent:** None

**County Staff:** Karlene McDonald, Community Liaison  
Zach Patchell, Projects Manager  
Lisa Eby, Executive Assistant

**Guests:** See attached sign-in sheet

**Call to Order / Roll Call:**

The meeting was called to order at 10:00 a.m. A roll call was taken, and a quorum was present.

**Changes to the Agenda / Motion to Approve Changes:**

None

**Election of Officers:**

- Chair: Ms. Scott nominated Mr. Peterson, seconded by Mr. Phillips, there were no other nominations
- Vice-Chair: Ms. Scott nominated herself seconded by Mr. Phillips, there were no other nominations.

Mr. Peterson noted he may be moving out of the waterway MSBU, discussion ensued regarding his nomination for chair, nominations were unanimously agreed; Mr. Peterson accepted the position of Chair and Ms. Scott accepted the position of Vice-Chair.

**Sunshine Law, Roberts Rules of Order and Public Records Review:**

The Advisory Board viewed the Sunshine Law presentation and Roberts Rules of Order video and Ms. McDonald reviewed where to find the Records Management Department Contact Information on the County webpage, there were no questions regarding public records law.

**Citizen Input on Agenda Items (3-Minute Limit):**

None

**Approval of Minutes:**

Mr. Phillips requested confirmation that the historical costs and figures provided at the last meeting would be included with the minutes, Ms. McDonald confirmed they will be attached as backup documentation. The minutes from July 22, 2021, were approved as submitted.

**Unfinished Business:**

- a. Spot Dredge Update: 60% design plans were reviewed, with the updated survey and volume calculations to -4FT MLW (Mean-Low Water) the project scope totals 844 CY (cubic yards) to be removed from the mouths of the channels. Mr. Patchell noted the low volume in the

Dover and Santa Barbara Waterways and suggested removing them from the project scope. Ms. McDonald reported citizen requests for dredging further inland on the Santa Barbara and Balboa Waterways. Mr. Patchell did not recommend adding additional areas to the scope of work as it would require a change order for engineering services and the Advisory Board is currently working within a limited budget. He also noted an area at the mouth of the Santa Clara Waterway and noted this would not fall within the County-wide maintenance dredge permit as it's considered open waters. To dredge this area would require additional permitting. Discussion ensued regarding the need for a future access/ exterior waterway dredge project, the dynamics of tidal waters and future funding availability. Ms. McDonald noted there are three options for a future access channel dredge project, first would be take out a loan to fund the dredge project, this option limits additional dredging work during the duration of the loan, second would be building reserves for a few years, and third, the Advisory Board and Board of County Commissioners approve a rate increase in FY24. The Advisory Board agreed additional data is needed prior to making a decision. Mr. Phillips motioned to exclude the Santa Clara and Dover Waterways from the interior dredge project, seconded by Mr. McBride and unanimously approved.

- b. Future Navigational Trimming: Ms. McDonald has not received any citizen complaints, stated there is \$50,000 budgeted this fiscal year, but does not have to be expended and inquired about any areas the Advisory Board wished to discuss; conversation ensued regarding navigational trimming and property owner responsibility. Mr. McBride inquired about the methodology for trimming. The Advisory Board agreed to table this until after Citizen Input on MSBU Items.
- c. FY22 Pre-Storm Survey: Mr. Phillips motioned to move forward with the FY22 pre-storm survey, seconded by Ms. Scott who requested confirmation on the cost. Mr. Patchell confirmed the \$30,000 budgeted would be sufficient, Mr. Chair called for a vote on the motion, and it was unanimously passed.

#### **New Business:**

- a. Financial Reports: The FY21 fourth quarter and FY22 first quarter financial reports, and the FY22 adopted budget were reviewed.

#### **Citizen Input on MSBU Items (3-Minute Limit):**

- Mr. Bautz noted concern with the recent water main replacement project.
- Mr. Good stated that navigational trimming has never provided. and noted concern with the riprap encroaching the navigable channel.

#### **Advisory Board Open Discussion:**

Mr. Patchell commented on the FY21 navigational trimming project. Ms. McDonald noted there is not sufficient staffing and only 1 vessel at Public Works, to inspect all the channels for the Waterway MSBUs wouldn't be feasible. Mr. Patchell noted on Engineering's side, he is the only Waterway maintenance staff, and it is not feasible for him either and noted Public Works relies on the community and Advisory Board members who live and boat in the area. Mr. Phillips motioned for the Advisory Board to direct staff to trim the San Salvador Canal in total, seconded by Mr. McBride and Ms. Scott inquired about the north, south or both sections of San Salvador. Mr. Phillips clarified it was for the North. Mr. Chair called for a vote on the motion to trim the San Salvador Canal North Section and entrance where needed and it was unanimously approved.

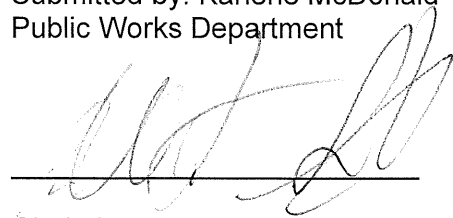
#### **Meeting Schedule / Items for Next Agenda:**

Future meetings are scheduled at 10:00 a.m. at the Charlotte Harbor Event Center as follows:

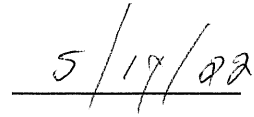
- May 19, 2022
- August 4, 2022
- November 4, 2022

Meeting adjourned at 11:36 a.m.

Submitted by: Karlene McDonald  
Public Works Department

A handwritten signature in black ink, appearing to be 'Karlene McDonald', written over a horizontal line.

Chair Signature

A handwritten date '5/19/22' written in black ink over a horizontal line.

Date

**AGENDA  
HARBOUR HEIGHTS WATERWAY  
MUNICIPAL SERVICE BENEFIT UNIT (MSBU)**

**ADVISORY BOARD REGULAR MEETING  
WENDESDAY, FEBRUARY 23, 2022**

**10:00 a.m., East Port Environmental Campus  
25550 Harborview Road, Port Charlotte, Florida**

**BOARD MEMBERS:** Lee Phillips, Chair  
Perrin Peterson, Vice-Chair  
James McBride  
Margaret Scott

**COUNTY STAFF:** Karlene McDonald, Community Liaison

**PURPOSE:** Regular Meeting

1. Call to Order / Roll Call
2. Changes to the Agenda / Motion to Approve Changes
3. Election of Officers
4. Annual Review: Sunshine Law, Roberts Rules of Order, Public Records
5. Citizen Input on Agenda Items (3-Minute Limit)
6. Approval of Minutes: July 22, 2021
7. Unfinished Business
  - a. Spot Dredge Update
  - b. Future Navigational Trimming
  - c. FY22 Pre-Storm Survey
8. New Business
  - a. Financial Reports
9. Citizen Input on MSBU items (3-Minute Limit)
10. Advisory Board Open Discussion
11. Meeting Schedule / Items for Next Agenda
12. Motion to Adjourn





**CHARLOTTE COUNTY PUBLIC WORKS  
MSBU FINANCIAL HISTORY  
FY 12 THRU FY 21  
FUND 1127  
HARBOUR HEIGHTS WATERWAY MAINT**

FINAL - Q4

Formerly Fund 172 (NE)	<u>FY 11-12</u>	<u>FY 12-13</u>	<u>FY 13-14</u>	<u>FY 14-15</u>	<u>FY 15-16</u>	<u>FY 16-17</u>	<u>FY 17-18</u>	<u>FY 18-19</u>	<u>FY 19-20</u>	<u>Adopted Budget FY 20-21</u>	<u>FY 20-21 12 Mo. Actual (a)</u>
<b>BEGINNING BALANCE</b>	\$ 172,957.41	\$ 32,376.18	\$ 65,435.95	\$ 184,930.90	\$ 333,547.14	\$ 201,540.85	\$ 128,545.03	\$ 198,749.35	\$ 250,539.07	\$ 287,521.00	\$ 304,736.06
<b>REVENUES RECEIVED</b>											
Assessments & Earnings Assessments	37,887.75	37,841.10	150,537.59	150,654.44	75,235.68	75,300.81	75,237.69	75,261.43	75,800.45	77,660.00	75,028.98
Assessments & Earnings Interest	567.07	282.78	941.08	2,358.76	2,734.45	1,356.21	3,029.52	5,098.90	4,169.06	1,049.00	1,864.76
Assessments & Earnings Net Inc(Decr) FMV/Invest	369.10	(270.73)	284.97	739.97	22.16	(286.20)	(1,438.20)	3,244.47	2,520.97	-	(1,820.74)
Assessments & Earnings Excess Fees /Misc.	369.95	326.12	1,147.40	1,044.49	549.34	20,994.66	410.13	461.46	-	-	451.96
Assessments & Earnings Less: Reserve - FS 129.01										(3,935.00)	
Loans & Borrowing External Borrowing											
Loans & Borrowing Interfund Transfer from CMF											
Total Revenue	39,193.87	38,179.27	152,911.04	154,797.66	78,541.63	97,365.48	77,239.14	84,066.26	82,490.48	74,774.00	75,524.96
<b>TOTAL REVENUES &amp; BALANCES</b>	<u>212,151.28</u>	<u>70,555.45</u>	<u>218,346.99</u>	<u>339,728.56</u>	<u>412,088.77</u>	<u>298,906.33</u>	<u>205,784.17</u>	<u>282,815.61</u>	<u>333,029.55</u>	<u>362,295.00</u>	<u>380,261.02</u>
<b>EXPENDITURES</b>											
Harbour Heights Maint. Dredge P/S - Engineering c39070	18,670.00		25,976.00	210.00	24,731.18	14,380.32				60,000.00	8,446.96
Harbour Heights Maint. Dredge C/S - Dredging c390705					179,018.00	148,608.00		24,426.00			
Navigational Trimming C/S - Nav. Trimming									4,650.00	15,000.00	9,950.00
Survey C/S - Survey									19,980.00	30,000.00	19,980.00
Internal Charges Central/Indirect Allocatio	4,721.00	672.00	661.00	657.00	859.00	452.00	3,169.00	2,267.00	343.00	360.00	360.00
Purchased Services Postage - MSBU Notices	23.40										
Purchased Services Advertising-Legal											
Public Works Services Maintenance Services	2,058.26	3,912.19	4,556.98	3,005.73	4,835.45	5,807.79	2,757.51	4,550.32	2,351.69	2,150.31	9,055.60
Purchased Services Per. Ser. - Inter Dept.											
Public Works Services Equipment Repl. Chgs.											
Purchased Services Tax Collector-Collection	515.44	535.31	2,222.11	2,308.69	1,104.29	1,113.19	1,108.31	1,033.22	968.80	1,553.20	959.65
Debt Services Principal Pymts											
Debt Services Interest Pymts	7,537.00										
Debt Services Repay Advance to CMF	146,250.00										
Public Works Services Sign Materials											
<b>Total Expenditures</b>	<u>179,775.10</u>	<u>5,119.50</u>	<u>33,416.09</u>	<u>6,181.42</u>	<u>210,547.92</u>	<u>170,361.30</u>	<u>7,034.82</u>	<u>32,276.54</u>	<u>28,293.49</u>	<u>109,063.51</u>	<u>48,752.21</u>
<b>ENDING FUND BALANCE</b>	<u>\$ 32,376.18</u>	<u>\$ 65,435.95</u>	<u>\$ 184,930.90</u>	<u>\$ 333,547.14</u>	<u>\$ 201,540.85</u>	<u>\$ 128,545.03</u>	<u>\$ 198,749.35</u>	<u>\$ 250,539.07</u>	<u>\$ 304,736.06</u>	<u>\$ 253,231.49</u>	<u>\$ 331,508.81</u>

Note (a): Twelve Month Actuals per Ledger Summary Report of 09/30/21  
Maintenance Mgmt System through 09/30/21



CHARLOTTE COUNTY PUBLIC WORKS DIVISION  
 FY 2021/22 BUDGET  
 HARBOUR HEIGHTS WATERWAY MTC MAINT UNIT (NE)  
 FUND # 1127  
 ADOPTED WATERWAY UNIT WORK PROGRAM

**ADOPTED**  
**9.27.21**

ESTIMATED ERU's - FY21/22	Wet Lots		388.3
		COST PER	
		ERU	TOTAL
PROJECTED FUND BALANCE - 10/1/21			\$ 215,467
ESTIMATED REVENUE RATE	Wet Lots	\$ 200.00	74,479
FUNDS AVAILABLE			289,946
GRAND TOTAL MSBU WORK PROGRAM		\$ 492.18	191,115
BALANCE AFTER PROGRAM			<b>98,831</b>
OTHER CASH OUTFLOWS (TRANSFERS OUT)			-
<b>PROJECTED FUND BALANCE - 9/30/22</b>			<b>\$ 98,831</b>
<u>TRANSFERS AND RESERVES SUMMARY</u>			
RESERVE FOR FUTURE CAPITAL OUTLAY			40,842
RESERVE FOR CONTINGENCY-REGULAR			28,995
RESERVE-CASH CARRIED FORWARD			28,995
TOTAL TRANSFERS AND RESERVES			<b>98,831</b>
<b>***TOTAL CASH OUTFLOWS AND RESERVES/BALANCES***</b>			<b>289,946</b>
Desired Minimum Fund Balance:	\$31,853		
Allowable Fund Balance:	\$57,989		

<u>RATE HISTORY:</u>	<u>UNIT OF MEAS</u>	<u>COST PER UOM</u>	<u>PER 80' LOT</u>
FY 2012/13	ERU	\$ 100.00	\$ 100.00
FY 2013/14	ERU	\$ 400.00	\$ 400.00
FY 2014/15	ERU	\$ 400.00	\$ 400.00
FY 2015/16	ERU	\$ 200.00	\$ 200.00
FY 2016/17	ERU	\$ 200.00	\$ 200.00
FY 2017/18	ERU	\$ 200.00	\$ 200.00
FY 2018/19	ERU	\$ 200.00	\$ 200.00
FY 2019/20	ERU	\$ 200.00	\$ 200.00
FY 2020/21	ERU	\$ 200.00	\$ 200.00
FY 2021/22	ERU	\$ 200.00	\$ 200.00

CURRENT MAXIMUM RATE \$400.00

Totals may not add due to rounding.

CHARLOTTE COUNTY PUBLIC WORKS DIVISION  
 FY 2021/22 BUDGET  
 HARBOUR HEIGHTS WATERWAY MTC MAINT UNIT (NE)  
 FUND # 1127  
 ADOPTED WATERWAY UNIT WORK PROGRAM

**ADOPTED**  
**9.27.21**

<u>PUBLIC WORKS SERVICES</u>		<u>TOTAL EXP</u>
Maintenance Services	\$	8,299
Equipment Replacement Charges		408
Signing & Marking Materials		-
Road/Drainage Maintenance Materials		-
<b>TOTAL PUBLIC WORKS SERVICES</b>		<b>8,707</b>
 <u>OTHER DIRECT COSTS</u>		
Postage & Notices		-
Central/Indirect Services Allocation		855
Advertising - Legal		-
<b>TOTAL OTHER DIRECT COST</b>		<b>855</b>
 <u>CONTRACT SERVICES</u>		
	<u>C/O \$</u>	<u>NEW \$</u>
Landfill Fees		10-9004
c390705 P/S - Engineering		84-8490
c390705 C/S - Dredging		84-8486 100,000
C/S - Survey		84-8499 30,000
C/S - Navigational Trimming		84-8484 50,000
<b>TOTAL CONTRACT SERVICES</b>		<b>180,000</b>
 <b>TOTAL WORK PROGRAM</b>		 <b>189,562</b>
 <b>COLLECTION FEES</b>		 <b>1,553</b>
 <b>DEBT SERVICE</b>		 Principal
		Interest
 <b>GRAND TOTAL MSBU WORK PROGRAM</b>		 <b>\$ 191,115</b>

## Budget by Single MSBU

**Budget Year:** 2022-BUDGET  
**MSBU Code:**

**Department:** All Departments  
**Activity:** All Activities

WO #	Activity	Work Quantity	Work UOM	ADP	Crew Days	Crew Size	Labor Days	Labor Cost	Tool Cost	Parts Cost	Lump Sum	Budget Total
1710396	10-9866-MSDR	60.00	LHR	10.00	6.00	1.00	6.00	3,790.43	0.00	0.00	0.00	3,790.43
	<b>Program 10 Totals:</b>	<b>60.00</b>			<b>6.00</b>		<b>6.00</b>	<b>3,790.43</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3,790.43</b>
1751754	84-8484-C/S Vegetation Removal	50,000.00	DOL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50,000.00	50,000.00
1711273	84-8486-Contract Dredging	100,000.00	DOL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100,000.00	100,000.00
1711376	84-8490-Professional Engineer Svcs	0.00	DOL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1711998	84-8499 - C/S Survey	30,000.00	DOL	0.00	0.00	1.00	0.00	0.00	0.00	0.00	30,000.00	30,000.00
	<b>Program 84 Totals:</b>	<b>180,000.00</b>			<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>180,000.00</b>	<b>180,000.00</b>
1712025	93-9357-Project Management	164.70	LHR	15.00	10.98	0.50	5.49	4,508.30	408.46	0.00	0.00	4,916.76
	<b>Program 93 Totals:</b>	<b>164.70</b>			<b>10.98</b>		<b>5.49</b>	<b>4,508.30</b>	<b>408.46</b>	<b>0.00</b>	<b>0.00</b>	<b>4,916.76</b>
1712257	96-9605-Stormwater Design Support	0.00	LHR	20.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Program 96 Totals:</b>	<b>0.00</b>			<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
	<b>PW-HHWWM Totals:</b>	<b>180,224.70</b>			<b>16.98</b>		<b>11.49</b>	<b>8,298.73</b>	<b>408.46</b>	<b>0.00</b>	<b>180,000.00</b>	<b>188,707.19</b>



CHARLOTTE COUNTY PUBLIC WORKS DIVISION  
 FY 2022/23 BUDGET  
 HARBOUR HEIGHTS WATERWAY MTC MAINT UNIT (NE)  
 FUND # 1127  
 PROPOSED WATERWAY UNIT WORK PROGRAM

**APPROVED**  
**9.27.21**

ESTIMATED ERU's - FY22/23	Wet Lots		388.3
		COST PER	
		<u>ERU</u>	<u>TOTAL</u>
PROJECTED FUND BALANCE - 10/1/22			\$ 98,831
ESTIMATED REVENUE AT PROPOSED RATE	Wet Lots	\$ 200.00	<u>74,161</u>
FUNDS AVAILABLE			172,992
GRAND TOTAL MSBU WORK PROGRAM		\$ 222.49	<u>86,393</u>
BALANCE AFTER PROGRAM			<b>86,599</b>
OTHER CASH OUTFLOWS (TRANSFERS OUT)			-
<b>PROJECTED FUND BALANCE - 9/30/23</b>			<b><u>\$ 86,599</u></b>
<u>TRANSFERS AND RESERVES SUMMARY</u>			
RESERVE FOR FUTURE CAPITAL OUTLAY			52,000
RESERVE FOR CONTINGENCY-REGULAR			17,299
RESERVE-CASH CARRIED FORWARD			<u>17,299</u>
TOTAL TRANSFERS AND RESERVES			<b>86,599</b>
<b>***TOTAL CASH OUTFLOWS AND RESERVES/BALANCES***</b>			<b><u>172,992</u></b>
Desired Minimum Fund Balance:		\$14,399	
Allowable Fund Balance:		\$34,598	

<u>RATE HISTORY:</u>	<u>UNIT OF MEAS</u>	<u>COST PER UOM</u>	<u>PER 80' LOT</u>
FY 2013/14	ERU	\$ 400.00	\$ 400.00
FY 2014/15	ERU	\$ 400.00	\$ 400.00
FY 2015/16	ERU	\$ 200.00	\$ 200.00
FY 2016/17	ERU	\$ 200.00	\$ 200.00
FY 2017/18	ERU	\$ 200.00	\$ 200.00
FY 2018/19	ERU	\$ 200.00	\$ 200.00
FY 2019/20	ERU	\$ 200.00	\$ 200.00
FY 2020/21	ERU	\$ 200.00	\$ 200.00
FY 2021/22	ERU	\$ 200.00	\$ 200.00
FY 2022/23 Proposed	ERU	\$ 200.00	\$ 200.00

CURRENT MAXIMUM RATE \$400.00

Totals may not add due to rounding.

CHARLOTTE COUNTY PUBLIC WORKS DIVISION  
 FY 2022/23 BUDGET  
 HARBOUR HEIGHTS WATERWAY MTC MAINT UNIT (NE)  
 FUND # 1127  
 PROPOSED WATERWAY UNIT WORK PROGRAM

**APPROVED**  
**9.27.21**

<u>PUBLIC WORKS SERVICES</u>		<u>TOTAL EXP</u>
Maintenance Services		\$ 3,942
Equipment Replacement Charges		-
Signing & Marking Materials		-
Road/Drainage Maintenance Materials		-
<b>TOTAL PUBLIC WORKS SERVICES</b>		<b>3,942</b>
<u>OTHER DIRECT COSTS</u>		
Postage & Notices		-
Central/Indirect Services Allocation		898
Advertising - Legal		-
<b>TOTAL OTHER DIRECT COST</b>		<b>898</b>
<u>CONTRACT SERVICES</u>	<u>C/O \$</u>	<u>NEW \$</u>
Landfill Fees		10-9004 -
c390705 P/S - Engineering		84-8490 -
c390705 C/S - Dredging		84-8486 -
C/S - Survey		84-8499 30,000
C/S - Navigational Trimming		84-8484 50,000
<b>TOTAL CONTRACT SERVICES</b>		<b>80,000</b>
<b>TOTAL WORK PROGRAM</b>		<b>84,840</b>
<b>COLLECTION FEES</b>		<b>1,553</b>
<b>DEBT SERVICE</b>	Principal	-
	Interest	-
<b>GRAND TOTAL MSBU WORK PROGRAM</b>		<b>\$ 86,393</b>

## Budget by Single MSBU

Budget Year: 2023-BUDGET  
MSBU Code:

Department: All Departments  
Activity: All Activities

WO #	Activity	Work Quantity	Work UOM	ADP	Crew Days	Crew Size	Labor Days	Labor Cost	Tool Cost	Parts Cost	Lump Sum	Budget Total
1717065	10-9866-MSDR	60.00	LHR	10.00	6.00	1.00	6.00	3,942.04	0.00	0.00	0.00	3,942.04
	<b>Program 10 Totals:</b>	<b>60.00</b>			<b>6.00</b>		<b>6.00</b>	<b>3,942.04</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3,942.04</b>
1751157	84-8484-C/S Vegetation Removal	50,000.00	DOL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50,000.00	50,000.00
1717936	84-8486-Contract Dredging	0.00	DOL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1718039	84-8490-Professional Engineer Svcs	0.00	DOL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1718256	84-8499 - C/S Survey	30,000.00	DOL	0.00	0.00	1.00	0.00	0.00	0.00	0.00	30,000.00	30,000.00
	<b>Program 84 Totals:</b>	<b>80,000.00</b>			<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>80,000.00</b>	<b>80,000.00</b>
1718304	93-9357-Project Management	0.00	LHR	15.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Program 93 Totals:</b>	<b>0.00</b>			<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1718525	96-9605-Stormwater Design Support	0.00	LHR	20.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Program 96 Totals:</b>	<b>0.00</b>			<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
	<b>PW-HHWWM Totals:</b>	<b>80,060.00</b>			<b>6.00</b>		<b>6.00</b>	<b>3,942.04</b>	<b>0.00</b>	<b>0.00</b>	<b>80,000.00</b>	<b>83,942.04</b>



**FY2022 Capital Improvements Budget / FY 2022 - FY 2027 Project Detail** Project No. **c390705**

<b>GENERAL PROJECT DATA:</b>		Status In Progress	<b>CONCURRENCY REQUIREMENTS:</b> (Y/N)		<b>PROJECT NEED CRITERIA</b>	<b>PROJECT SCHEDULE</b>	FY22	FY23	FY24	FY25	FY26	FY27		
Project Title:	Harbour Heights WW Maintenance Dredging		Does project add new capacity?	No	Safety	Design/Arch	1	2	3	4	1	2	3	4
Functional Area:	Engineering, Dredging, Coastal Management		Is project required to maintain level of service:		Mandate	Land/ROW								
Department:	Public Works\Engineering		- Within 5 years? List project in CIE	No	Replace	Construct								
Location:	Harbour Heights WW, Peace River, No County		- From 6 to 10 years? Monitor Annually	No	Maint	Equipment								

**PROJECT DESCRIPTION:**  
 Maintenance Dredging of existing waterways to their permitted conditions for safe navigation.

FY21 includes design, permitting and construction management.

FY22, construction cost to be determined and/or updated during the design and permitting.

Survey money has been moved to line item section of the financials and will be budgeted for the same amount each year.

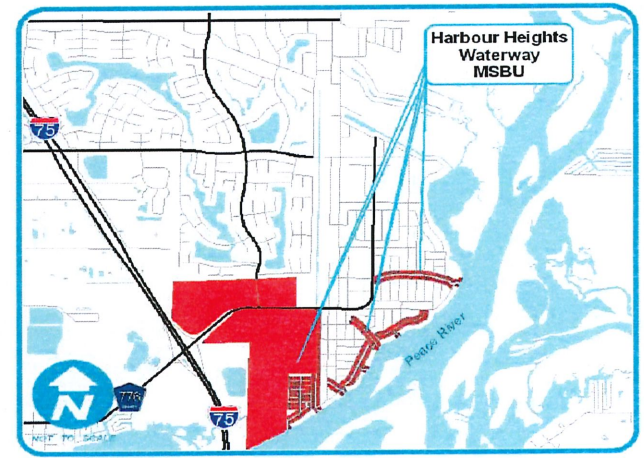
**PROJECT RATIONALE (Include Additional LOS Detail, if necessary):**  
 Maintenance Dredging all existing manmade canals and access channel(s) to restore safe navigation within the system.

The project was requested and approved by the Harbour Heights Waterway advisory committee.

**OPERATING BUDGET IMPACT:**

REPLACEMENT COUNTY PROPERTY NO.:

	Prior Actual	Est FY21	Calc. for FY22			FY22	FY23	FY24	FY25	FY26	FY27	FUTURE	Total
			Orig. FY22	Est c/o to FY22	New \$ FY22								
<b>EXPENDITURE PLAN (000'S)</b>													
Design/Arch/Eng	129			60	-60								129
Land (or ROW)													
Construction	1,057		100			100							1,157
Internal Costs	26			2	3	5							31
Equipment													
Interest	8												8
Survey													
<b>Total Project Cost</b>	<b>1,219</b>		<b>100</b>	<b>62</b>	<b>-57</b>	<b>105</b>							<b>1,324</b>
<b>FUNDING PLAN (000'S)</b>													
MSBU/TU Assessments	969		100	62	-57	105							1,074
Other	250												250
<b>Total Funding</b>	<b>1,219</b>		<b>100</b>	<b>62</b>	<b>-57</b>	<b>105</b>							<b>1,324</b>
<b>LOAN REPAYMENT SCHEDULE (000'S)</b>													
Assessments	250												
<b>Total Loan Repayment</b>	<b>250</b>												
<b>OPERATING BUDGET IMPACT (000'S)</b>													
Personal Svc.													
Non-personal													
Capital													
<b>Total Operating</b>													



# Monthly MSBU Activity Report

START DATE: 10/1/2021 END DATE: 11/30/2021

**PW-HHWWM Harbour Hts WW Mtc**

Project	WO Number	WO Description	Equipment Code	Equipment Description	Location	Date Worked	Labor Hours	Labor Cost	Parts Cost	Equipment Cost	Contract or Cost	Work Accompl.	UOM	Total Cost
C390705	1011047	PW-MSBU-N Harbour Heights WW Dredging c390705	PW-HHWWM	Harbour Hts WW Mtc										
				93-9357D Project Management		10/05/2021	0.50	43.90	0.00	0.00	0.00	0.50	LHR	43.90
						10/08/2021	1.00	87.79	0.00	0.00	0.00	1.00	LHR	87.79
						10/12/2021	1.50	131.69	0.00	0.00	0.00	1.50	LHR	131.69
						11/16/2021	1.00	106.79	0.00	0.00	0.00	1.00	LHR	106.79
				<b>Project Management Total</b>			<b>4.00</b>	<b>370.16</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4.00</b>	<b>LHR</b>	<b>370.16</b>
				<b>Total WO Number: 1011047</b>			<b>4.00</b>	<b>370.16</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4.00</b>	<b>LHR</b>	<b>370.16</b>
1220397	PW-HHWWM	Harbor Heights Waterway MS DR Annual Work Order	PW-HHWWM	Harbour Hts WW Mtc										
					10-9866 MS DR	10/04/2021	0.50	37.97	0.00	0.00	0.00	0.50	LHR	37.97
						10/06/2021	0.75	56.95	0.00	0.00	0.00	0.75	LHR	56.95
						10/12/2021	0.50	37.97	0.00	0.00	0.00	0.50	LHR	37.97
						10/13/2021	0.25	18.98	0.00	0.00	0.00	0.25	LHR	18.98
						10/14/2021	0.25	18.98	0.00	0.00	0.00	0.25	LHR	18.98
						10/18/2021	1.00	75.93	0.00	0.00	0.00	1.00	LHR	75.93
						10/20/2021	0.50	37.97	0.00	0.00	0.00	0.50	LHR	37.97
						10/21/2021	0.50	37.97	0.00	0.00	0.00	0.50	LHR	37.97
						10/25/2021	0.25	18.98	0.00	0.00	0.00	0.25	LHR	18.98
						10/26/2021	0.25	18.98	0.00	0.00	0.00	0.25	LHR	18.98
						11/01/2021	0.50	45.70	0.00	0.00	0.00	0.50	LHR	45.70
						11/03/2021	0.50	45.70	0.00	0.00	0.00	0.50	LHR	45.70
						11/08/2021	0.25	22.85	0.00	0.00	0.00	0.25	LHR	22.85
						11/09/2021	0.75	68.54	0.00	0.00	0.00	0.75	LHR	68.54
						11/10/2021	0.75	68.54	0.00	0.00	0.00	0.75	LHR	68.54
				<b>MSDR Total</b>			<b>7.50</b>	<b>611.99</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>7.50</b>	<b>LHR</b>	<b>611.99</b>
				<b>Total WO Number: 1220397</b>			<b>7.50</b>	<b>611.99</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>7.50</b>	<b>LHR</b>	<b>611.99</b>
				<b>Total MSBU: PW-HHWWM</b>			<b>11.50</b>	<b>982.15</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>11.50</b>	<b>LHR</b>	<b>982.15</b>

## Harbour Heights Waterway MSBU

Fund Financial Report

Oct. 1 - Dec. 31, 2021

	Actual FY2021	Adopted Budget FY2022	YTD Actual FY2022	Projected FY2022
<b>Beginning Balance</b>	\$304,736	\$215,467	\$331,509	\$331,509
<b>Revenues</b>				
Assessments & Earnings	75,525	74,479	54,354	74,479
Grant & Subsidy Revenue	-	-	-	-
Loans & Borrowing	-	-	-	-
<b>Total Revenue</b>	\$75,525	\$74,479	\$54,354	\$74,479
<b>Expenditures</b>				
Contract Services	-	-	-	-
Survey	19,980	30,000	-	30,000
Navigational Trimming	9,950	50,000	-	50,000
Public Works Services	9,056	8,707	982	8,707
Internal Charges	360	855	855	855
Purchased Services	960	1,553	1,087	1,553
Materials and Supplies	-	-	-	-
Capital Outlay	-	-	-	-
Debt Services	-	-	-	-
<b>Project Costs</b>				
Harbour Heights Maint. Dredge	8,447	100,000	-	100,000
<b>Total Expenditures</b>	48,752	191,115	2,924	191,115
<b>Reserves (Ending Fund Balance)</b>	\$331,509	\$98,831	\$382,939	\$214,873
<i>Reserve %</i>	87.2%	34.1%	99.2%	52.9%

Date Prepared: 1/13/2022

**Category Definitions - Quarterly Financial Reports**

<b>Revenues:</b>	<b>Includes:</b>
Assessments & Earnings	Assessment fees, Interest and Investment Earnings
Grant & Subsidy Revenue	Federal, State and Local Grants, Subsidies from other funding sources
Loans & Borrowing	Debt proceeds

<b>Expenditures:</b>	<b>Includes:</b>
Contract Services	Installed Sod Repairs (Irrigation, Sidewalk, Driveway, Asphalt, etc.) Street Sweeping Survey Traffic Control Tree Removal / Replacement **excludes project costs and itemized contractual items listed below  Different templates will show different itemized accounts Itemized Items - SD Template - Pipe Lining, ROW Maint, ROW Recl, Spec Mowing Itemized Items - WW template - Survey, Navigatoinal Trimming Itemized Items - Stormwater - Pipe Lining, Water Quality Itemized Items - Beaches - none, most expenses are project related
Public Works Services	Costs incurred by the MSBU Work Program and Project(s) for Labor, Tools/Equipment and Material usage  Public Works Services periods covered: Q1 PE 12.31 = (2mo) October - November actuals Q2 PE 3.31 = (5mo cumulative) October - February actuals Q3 PE 6.30 = (8mo cumulative) October - May actuals Q4 PE 9.30 = (12mo cumulative) October - September actuals
Internal Charges	Inter-department charges for services provided. This calculation is based on actual expenditure data from 2 years in arrears. Not to exceed 5% of the current fiscal year assessment revenue.
Purchased Services	Legal Advertising (MSBU Notice Mailings) / Postage Aquatic Weed Charges Landfill Fees POA Fees Electricity & Water Tax Collector Collection Fees
Materials and Supplies	Operating Supplies (Example: Stakes for sea turtle nest / beach monitoring)
Capital Outlay	Non project related capital costs (Example: Permanent radar signs) Right of Way Acquisition (Example: Easements)
Debt Services	Principal Loan Payments Interest Payments Cost of debt (arbitrage, closing costs, etc)

<b>Project Costs</b>	<b>Includes:</b>
Project Costs	Construction (Dredging, Bridge Maintenance, Paving), Engineering and Design

<b>Reserves (Ending Fund Balance)</b>	<b>Includes:</b>
Reserves / Ending Fund Balance	Reserve for Contingencies, Cash Carried Forward, Future Capital Outlay (per reserve policy)

## Explanation of Terms

### Revenue:

- **Net Inc(Decr) FMV/Invest.** – The Clerk of the Court’s Finance Dept invests the money that the MSBU’s have on hand. Every year the Clerk’s Finance is required to mark up or down to fair market value all investments the County has. This markup or markdown is what gets posted to this line item.
- **Excess Fees/Misc.** - Excess Fees returned from the tax collector and Miscellaneous Revenue from accident claims.
- **Less: Reserve – FS 129.01(2)(B)** – The receipts portion of the budget shall include 95 percent of all receipts reasonably to be anticipated from all sources.

### Expenditure:

- **Other Contractual Services** – This may include but is not limited to: Street Sweeping, Tree Removal, Tree Replacement, Installed Sod, Repairs (Irrigation, Sidewalk, Driveway, Asphalt, etc.), Pipe Lining, Traffic Control, Welding, POA Fees, Fabrication, Survey.
- **Central/Indirect Allocation** – Inter-department charges for services provided. This calculation is based on actual expenditure data from 2 years in arrears. Not to exceed 5% of the current fiscal year assessment revenue.
- **Equipment Repl Chgs/PW** – Costs that are incurred for the use of equipment on a particular job. For example: The use of a tractor or excavator on a job.
- **Tax Collector-Collection Fee** – Tax collector fees based on the collected assessment revenue.
- **Materials – Road & Bridge** – Costs of the materials used for a particular job.

### Reserves:

- **Reserve for Contingencies** – To maintain adequate levels of fund balance to mitigate current and future risks such as revenue shortfalls, unanticipated expenditures, and other unforeseen financial situations after exhausting all other funding options. Balance not less than 5% and not greater than 10% of the total budget.
- **Cash Carried Forward** – A reserve amount for the purpose of paying expenses from Oct. 1 of the ensuing fiscal year until the time when the revenues for that year are expected to be available. Balance not less than 5% and not greater than 10% of the total budget.
- **Future Capital Outlay** – Reserve amount accumulated for the purpose of funding capital projects must be spent on such project within six years from the date it was assessed or collected.

Harbour Heights Dredging Summary Table

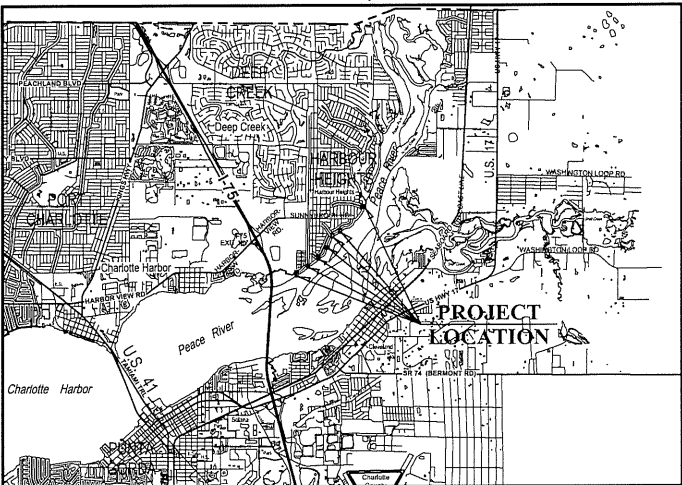
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Waterway	Quantity	
	4' Depth	5' Depth
Balboa Canal (S.)	± 16 C.Y.	± 207 C.Y.
Balboa Canal (N.)	± 76 C.Y.	± 456 C.Y.
DeSoto Canal	± 1 C.Y.	± 46 C.Y.
Santa Clara Canal	± 273 C.Y.	± 625 C.Y.
Dover Canal	± 6 C.Y.	± 99 C.Y.
Santa Barbara Canal	± 7 C.Y.	± 143 C.Y.
San Salvador Canal (S.)	± 73 C.Y.	± 322 C.Y.
San Salvador Canal (N.)	± 30 C.Y.	± 333 C.Y.
San Marino Canal	± 362 C.Y.	± 825 C.Y.
Total:	± 844 C.Y.	± 3056 C.Y.

# CONSTRUCTION PLANS FOR DREDGING - HARBOUR HEIGHTS CANALS FOR CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS CHARLOTTE COUNTY, FLORIDA

SECTIONS 22 & 28  
TOWNSHIP 40 SOUTH, RANGE 23 EAST

INDEX OF PLANS	
SHEET NO.	DESCRIPTION
01	COVER SHEET - LOCATION MAP
02	OVERALL SITE PLAN & SHEET INDEX
03	BALBOA CANAL (S.)
04	BALBOA CANAL (N.)
05	DeSOTO CANAL
06	SANTA CLARA CANAL
07	DOVER CANAL
08	SANTA BARBARA CANAL
09	SAN SALVADOR CANAL (S.)
10	SAN SALVADOR CANAL (N.)
11	SAN MARINO CANAL
12	CONST. NOTES & DETAILS (& DREDGING SUMMARY TABLE)



**LOCATION MAP**  
0 0.5 1 2  
SCALE IN MILES

County Commissioners  
Ken Doherty, District 1  
Christopher Constance, District 2  
Bill Truex, District 3  
Stephen R. Deutsch, District 4  
Joe Tiseo, District 5

County Engineer  
Joanne Vernon, P.E.

Project Manager  
Zach Patchell



JOHNSON ENGINEERING, INC.  
17829 MURDOCK CIRCLE  
SUITE B  
PORT CHARLOTTE, FLORIDA 33948  
PHONE (941) 625-2919  
FAX (941) 625-3269  
E.B. #642 & L.B. #642

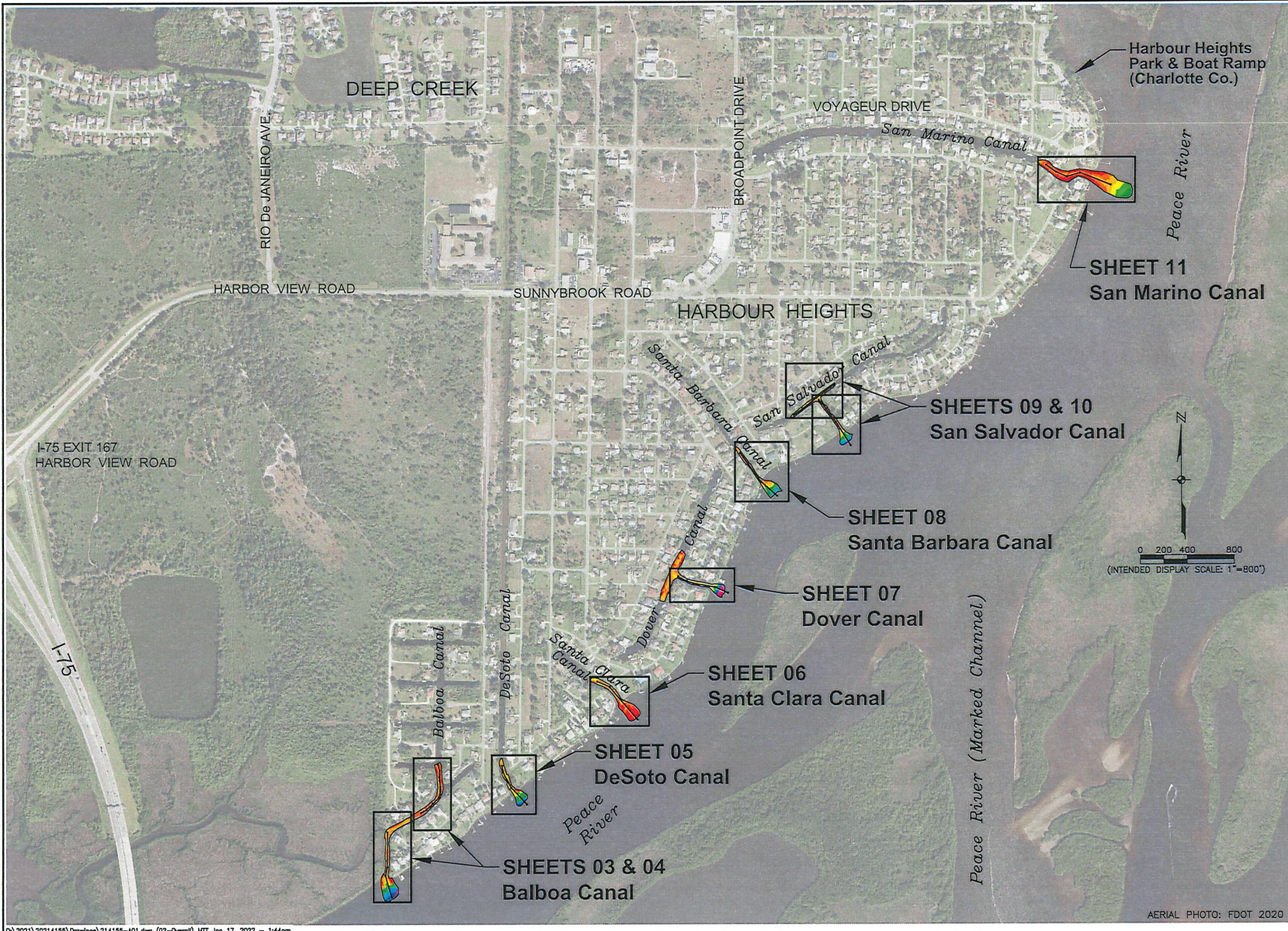
January 14, 2022

REGISTERED PROFESSIONAL ENGINEER  
FLORIDA LICENSE NO. 84594

CHRISTOPHER D. BEERS, PE

DATE





DREDGING - HARBOUR HEIGHTS CANALS

CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS  
 SECTIONS 22 & 28, TOWNSHIP 40 SOUTH, RANGE 23 EAST  
 CHARLOTTE COUNTY, FLORIDA

NO.	REVISIONS DESCRIPTION

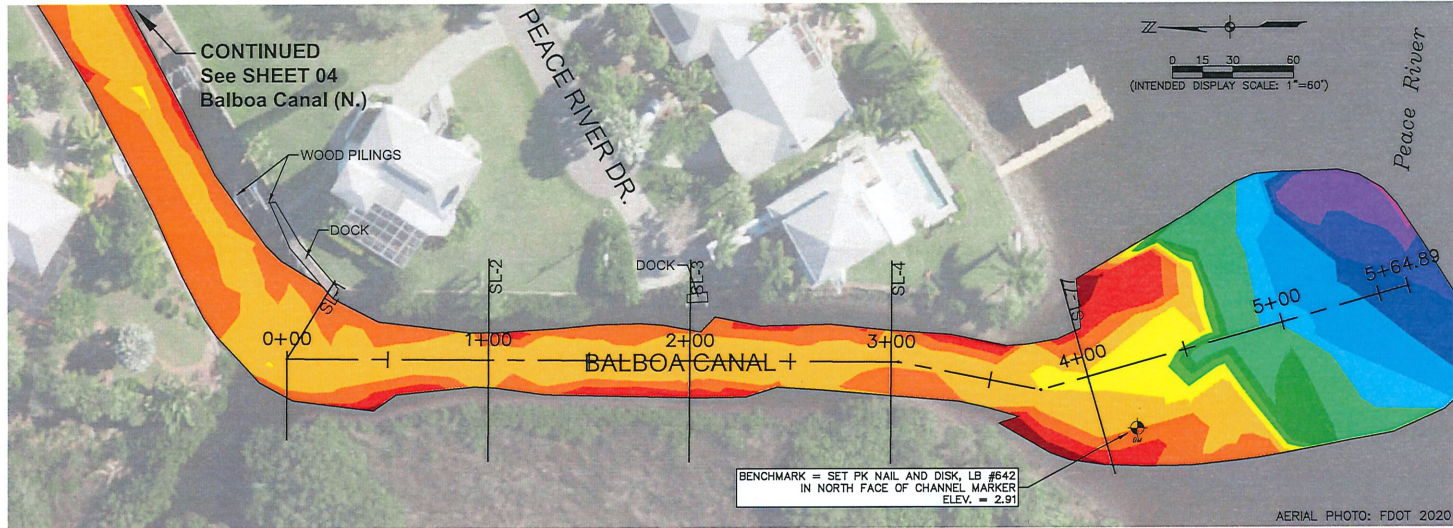
DATE: 01-14-2022  
 PROJECT NO.: 20214155-000  
 FILE NO.: 22-40-23  
 SCALE: AS SHOWN

OVERALL SITE PLAN & SHEET INDEX

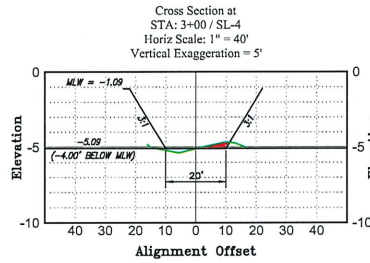
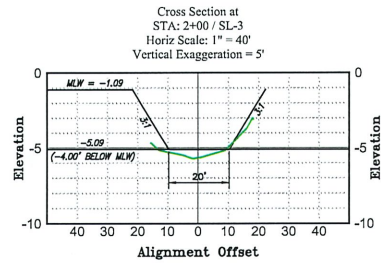
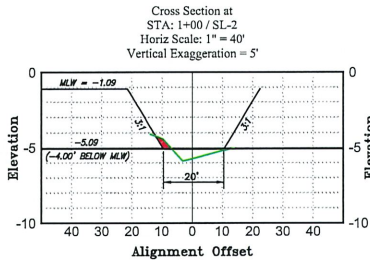
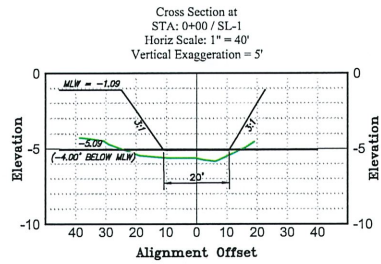
SHEET NUMBER  
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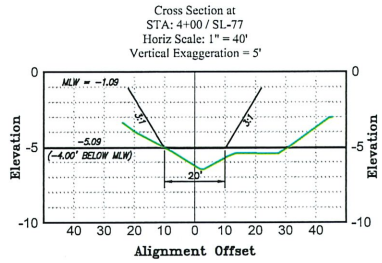




Color	Elev. (FEET)
Dark Red	0 to -1
Red	-1 to -2
Orange-Red	-2 to -3
Orange	-3 to -4
Yellow-Orange	-4 to -5
Yellow	-5 to -6
Light Green	-6 to -7
Green	-7 to -8
Dark Green	-8 to -9
Teal	-9 to -10
Blue-Teal	-10 to -11
Blue	-11 to -12
Dark Blue	-12 to -13
Very Dark Blue	-13 to -14
Black	-14 to -15
Dark Purple	-15 to -16
Medium Purple	-16 to -17
Light Purple	-17 to -18
Very Light Purple	-18 to -19
White	-19 to -20



Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	3.33	3.33
2+00	3.62	6.95
3+00	4.52	11.47
4+00	4.34	15.81



**JOHNSON ENGINEERING**  
JOHNSON ENGINEERING, INC.  
1783 MURDOCK CIRCLE  
PORT CHARLOTTE, FLORIDA 33948  
PHONE: (813) 625-0919  
E.B. #642 & L.B. #642

DREDGING - HARBOUR  
HEIGHTS CANALS

CHARLOTTE COUNTY BOARD OF  
COUNTY COMMISSIONERS  
SECTIONS 22 & 29, TOWNSHIP 40 SOUTH, RANGE 23 EAST  
CHARLOTTE COUNTY, FLORIDA

NO.	DESCRIPTION

DATE: 01-14-2022  
PROJECT NO. 20214155-000  
FILE NO. 22-40-23  
SCALE: AS SHOWN

BALBOA CANAL (S.)

SHEET NUMBER





DREDGING - HARBOUR HEIGHTS CANALS

**JOHNSON ENGINEERING INC.**  
 JOHNSON ENGINEERING, INC.  
 17141 WOODBINE DRIVE, SUITE 100  
 PORT CHARLOTTE, FLORIDA, 33948  
 PHONE: (813) 859-8919  
 FAX: (813) 859-8920  
 E.B. 1042 S.L.B. 1042

CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS  
 SECTIONS 22 & 28, TOWNSHIP 40 SOUTH, RANGE 23 EAST  
 CHARLOTTE COUNTY, FLORIDA

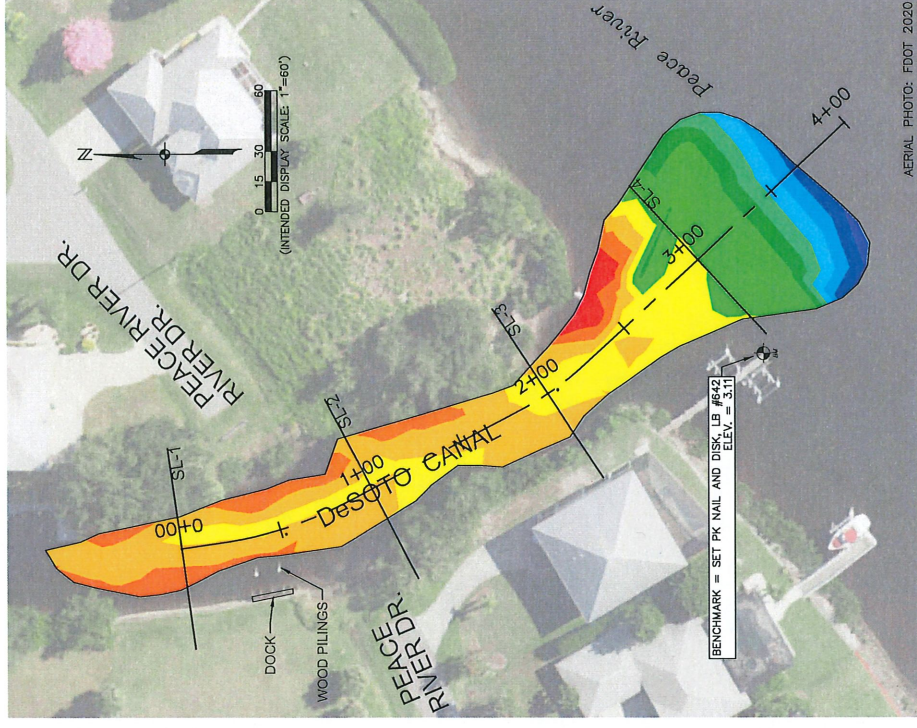
REVISIONS

NO.	DESCRIPTION

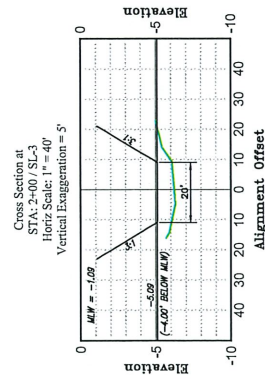
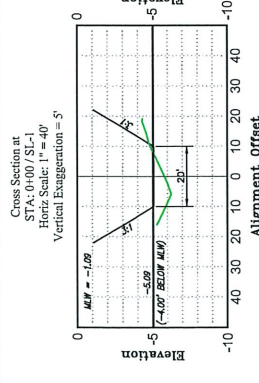
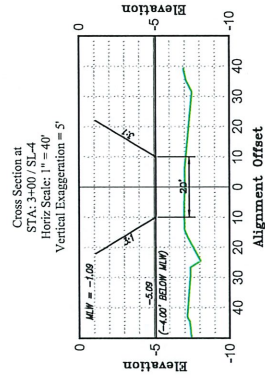
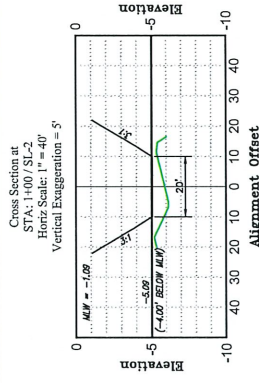
DATE: 01/14/2022  
 PROJECT NO.: 2021165201  
 FILE NO.: 22-40-23  
 SCALE: AS SHOWN

DASOTO CANAL

SHEET NUMBER 05



AERIAL PHOTO: FDOT 2020



Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	0.68	0.68
2+00	0.00	0.68
3+00	0.00	0.68

Elev. (FEET)	Color
0 to -1	Red
-1 to -2	Orange
-2 to -3	Yellow
-3 to -4	Light Green
-4 to -5	Green
-5 to -6	Dark Green
-6 to -7	Blue-Green
-7 to -8	Blue
-8 to -9	Light Blue
-9 to -10	Medium Blue
-10 to -11	Dark Blue
-11 to -12	Very Dark Blue
-12 to -13	Black
-13 to -14	Grey
-14 to -15	Dark Grey
-15 to -16	Black
-16 to -17	Black
-17 to -18	Black
-18 to -19	Black
-19 to -20	Black



**DREDGING - HARBOUR HEIGHTS CANALS**

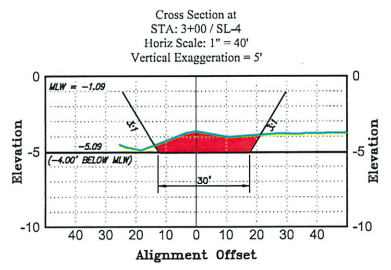
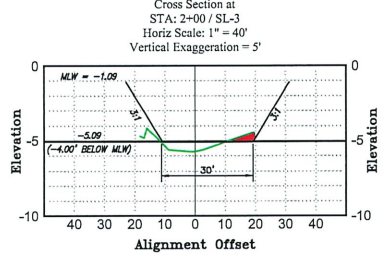
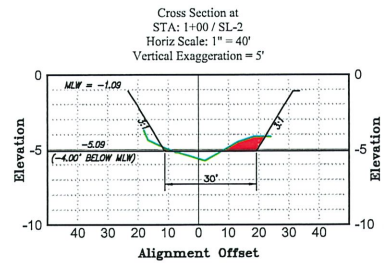
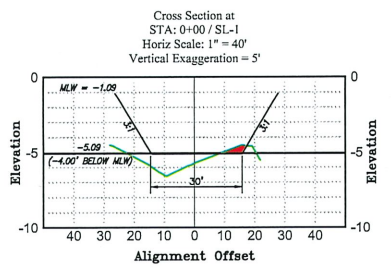
CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS  
 SECTIONS 22 & 28, TOWNSHIP 10 SOUTH, RANGE 29 EAST  
 CHARLOTTE COUNTY, FLORIDA

NO.	REVISIONS DESCRIPTION

DATE: 01-14-2022  
 PROJECT NO. 20214155-000  
 FILE NO. 22-40-23  
 SCALE: AS SHOWN

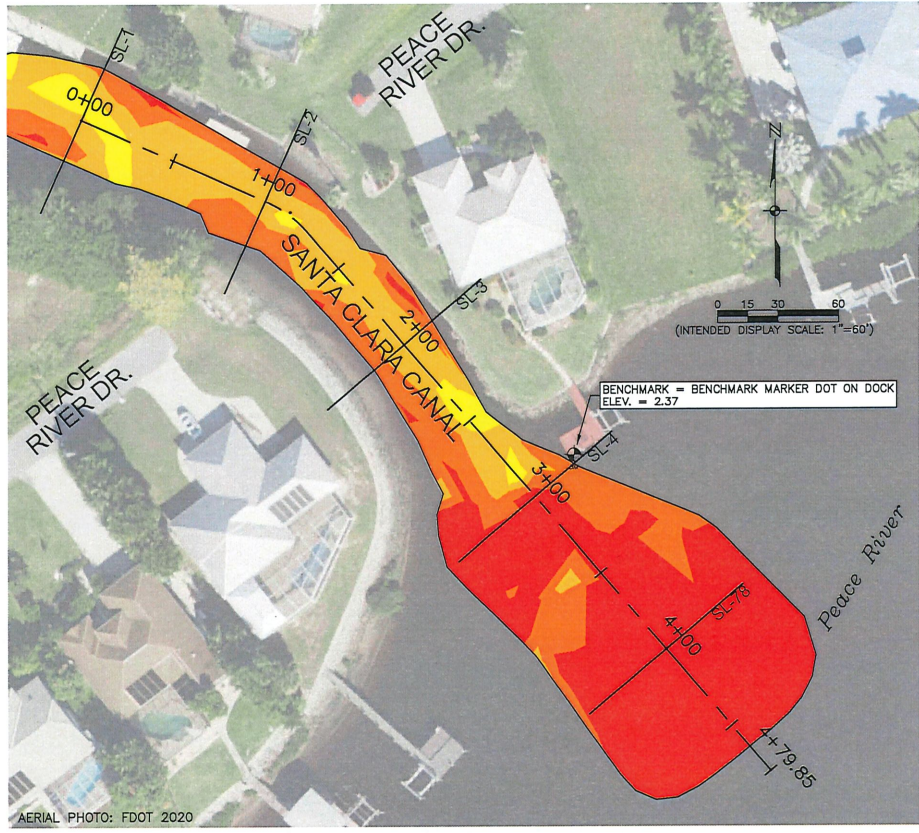
SANTA CLARA CANAL

SHEET NUMBER  
 06



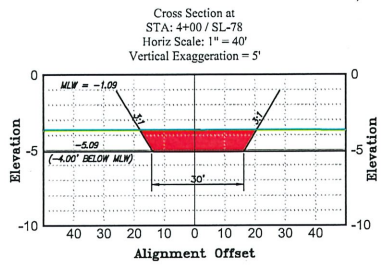
Elevations Table (NAVD88)

Color	Elev. (FEET)
Dark Red	0 to -1
Red	-1 to -2
Dark Red	-2 to -3
Red	-3 to -4
Orange	-4 to -5
Yellow	-5 to -6
Light Green	-6 to -7
Green	-7 to -8
Light Green	-8 to -9
Green	-9 to -10
Light Blue	-10 to -11
Blue	-11 to -12
Blue	-12 to -13
Blue	-13 to -14
Blue	-14 to -15
Purple	-15 to -16
Purple	-16 to -17
Purple	-17 to -18
Purple	-18 to -19
Purple	-19 to -20



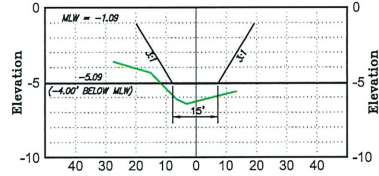
Cut Volume Table (Cubic Yards)

Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	20.06	20.06
2+00	19.58	39.64
3+00	73.54	113.19
4+00	159.45	272.64



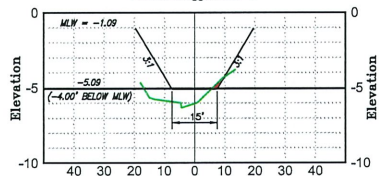


Cross Section at  
STA: 0+00 / SL-1  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



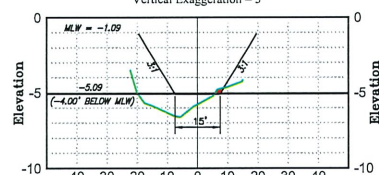
Alignment Offset

Cross Section at  
STA: 1+00 / SL-2  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



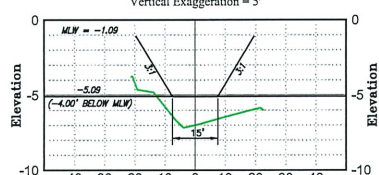
Alignment Offset

Cross Section at  
STA: 2+00 / SL-3  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'

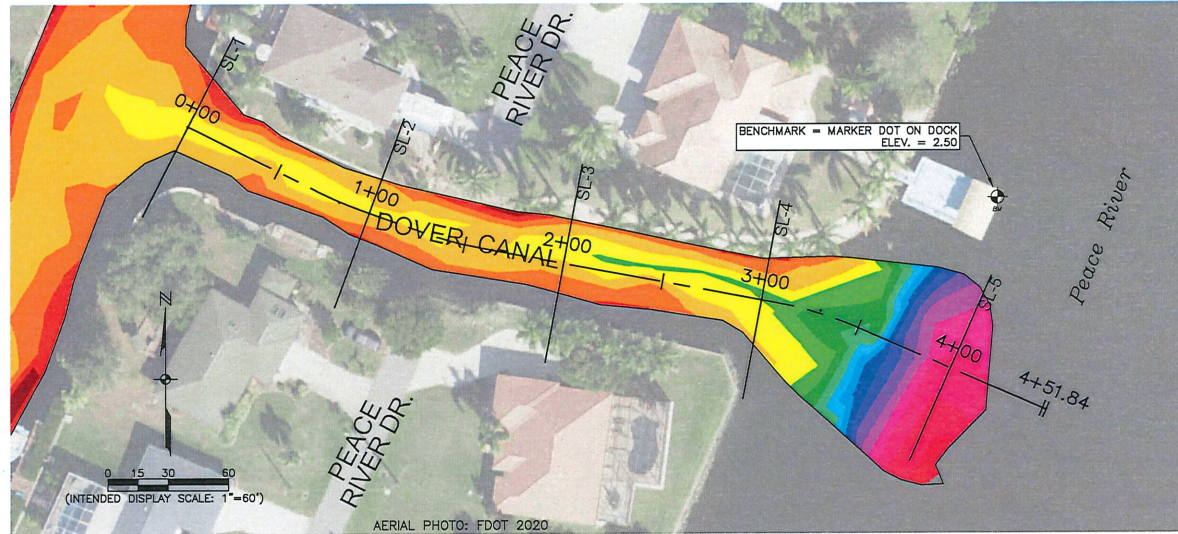


Alignment Offset

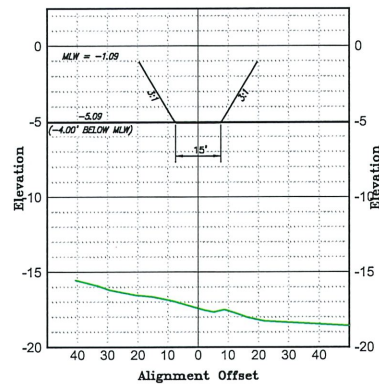
Cross Section at  
STA: 3+00 / SL-4  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



Alignment Offset



Cross Section at  
STA: 4+00 / SL-5  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



Cut Volume Table (Cubic Yards)

Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	1.44	1.44
2+00	2.63	4.06
3+00	1.17	5.24
4+00	0.00	5.24

Elevations Table (NAVD88)

Color	Elev. (FEET)
[Dark Red]	0 to -1
[Red]	-1 to -2
[Light Red]	-2 to -3
[Orange-Red]	-3 to -4
[Orange]	-4 to -5
[Yellow-Orange]	-5 to -6
[Yellow]	-6 to -7
[Light Green]	-7 to -8
[Green]	-8 to -9
[Light Blue-Green]	-9 to -10
[Light Blue]	-10 to -11
[Blue]	-11 to -12
[Dark Blue]	-12 to -13
[Purple-Blue]	-13 to -14
[Purple]	-14 to -15
[Pink-Red]	-15 to -16
[Pink]	-16 to -17
[Light Pink]	-17 to -18
[Red-Pink]	-18 to -19
[Dark Red]	-19 to -20

NO.	REVISIONS	DESCRIPTION

DATE:	01-14-2022
PROJECT NO.:	20214155-000
FILE NO.:	22-40-23
SCALE:	AS SHOWN

G:\2021\20214155\Drawings\214155-A01.dwg (07--Dover) MIT Jan 17, 2022 - 12:08pm







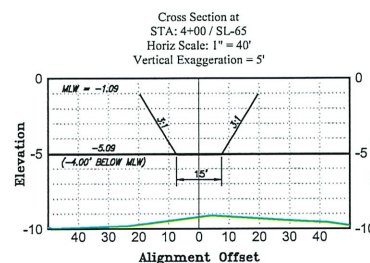
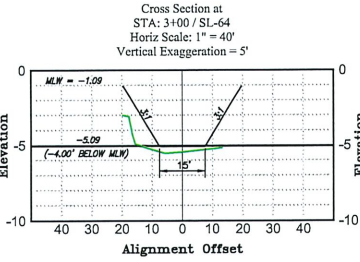
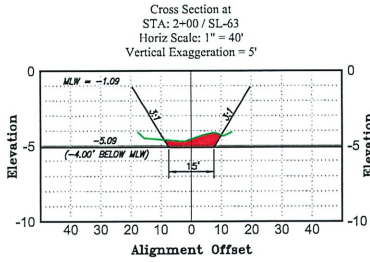
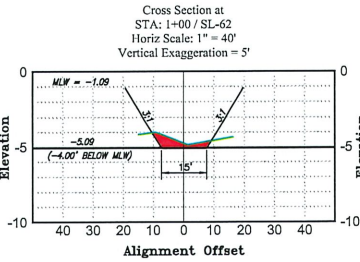
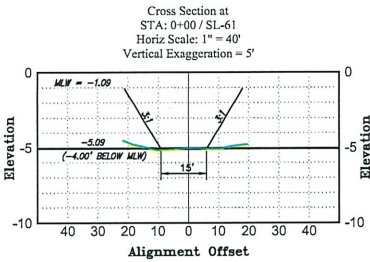
NO.	REVISIONS

DATE: 01-14-2022  
PROJECT NO. 20214155-000  
FILE NO. 22-40-23  
SCALE: AS SHOWN

SAN SALVADOR  
CANAL (S.)

SHEET NUMBER

09

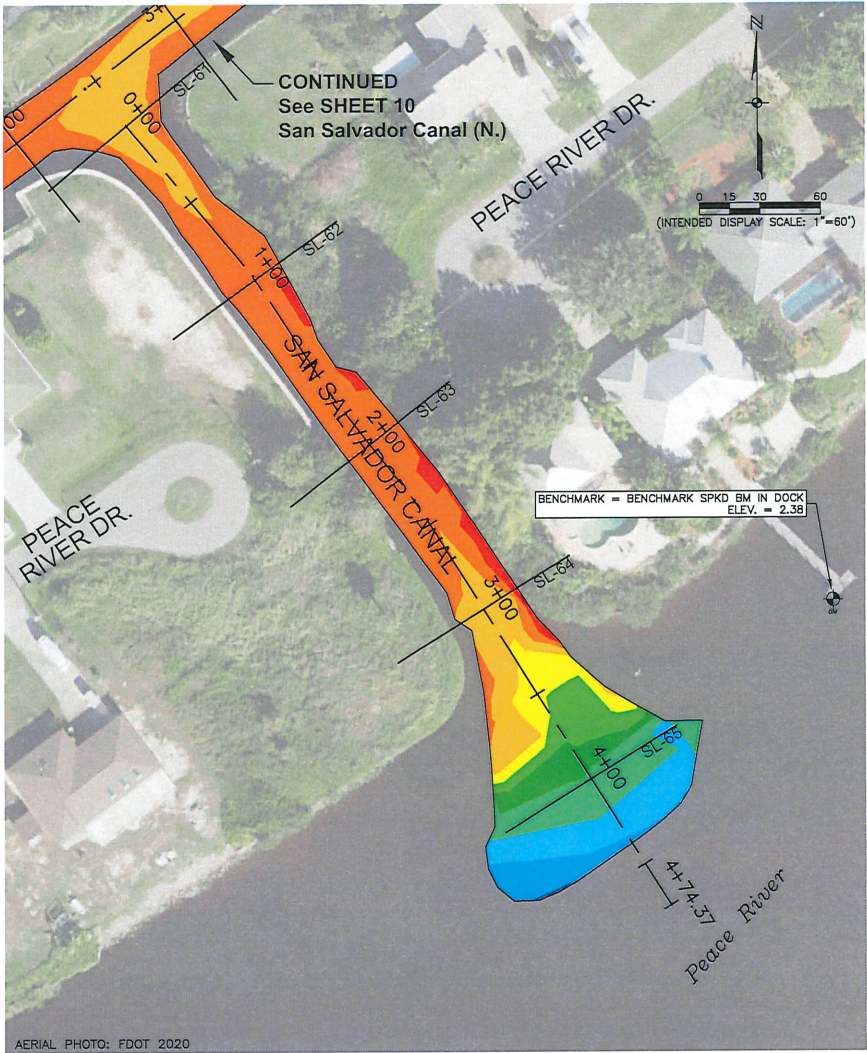


Elevations Table  
(NAVD88)

Color	Elev. (FEET)
	0 to -1
	-1 to -2
	-2 to -3
	-3 to -4
	-4 to -5
	-5 to -6
	-6 to -7
	-7 to -8
	-8 to -9
	-9 to -10
	-10 to -11
	-11 to -12
	-12 to -13
	-13 to -14
	-14 to -15
	-15 to -16
	-16 to -17
	-17 to -18
	-18 to -19
	-19 to -20

Cut Volume Table (Cubic Yards)

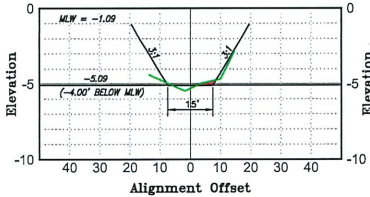
Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	16.68	16.68
2+00	36.24	52.91
3+00	19.96	72.88
4+00	0.00	72.88



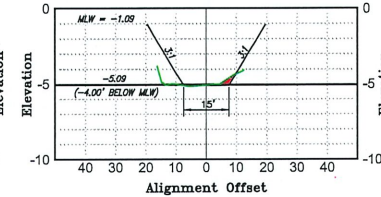
AERIAL PHOTO: FDOT 2020



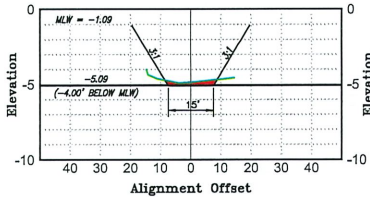
Cross Section at  
STA: 0+00 / SL-71  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



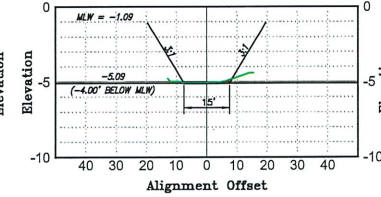
Cross Section at  
STA: 1+00 / SL-72  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



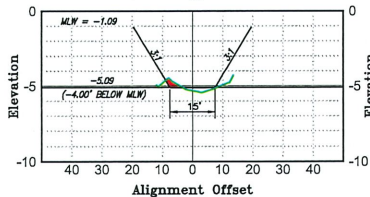
Cross Section at  
STA: 2+00 / SL-73  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



Cross Section at  
STA: 3+00 / SL-74  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'

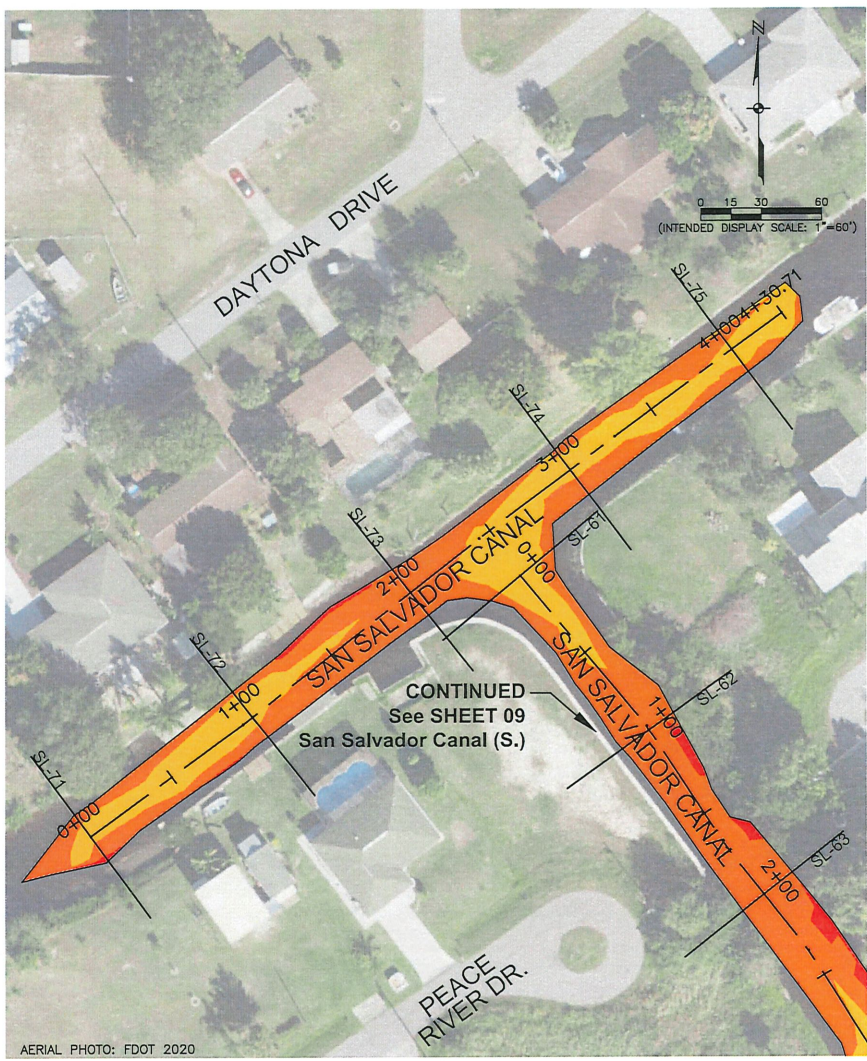


Cross Section at  
STA: 4+00 / SL-75  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	4.74	4.74
2+00	10.75	15.49
3+00	9.87	25.36
4+00	4.57	29.92

Color	Elev. (FEET)
Dark Red	0 to -1
Red	-1 to -2
Light Red	-2 to -3
Orange	-3 to -4
Yellow-Orange	-4 to -5
Yellow	-5 to -6
Light Green	-6 to -7
Green	-7 to -8
Dark Green	-8 to -9
Teal	-9 to -10
Blue-Teal	-10 to -11
Blue	-11 to -12
Dark Blue	-12 to -13
Very Dark Blue	-13 to -14
Purple	-14 to -15
Light Purple	-15 to -16
Pink	-16 to -17
Light Pink	-17 to -18
Red-Pink	-18 to -19
Dark Red-Pink	-19 to -20



**JOHNSON ENGINEERING**  
JOHNSON ENGINEERING, INC.  
17833 MURDOCK CIRCLE  
PORT CHARLOTTE, FLORIDA 33948  
PHONE: (841) 625-9919  
E.B. #642 & L.B. #642

DREDGING - HARBOUR HEIGHTS CANALS

CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS  
SECTIONS 22 & 23, TOWNSHIP 40 SOUTH, RANGE 23 EAST  
CHARLOTTE COUNTY, FLORIDA

NO.	DESCRIPTION

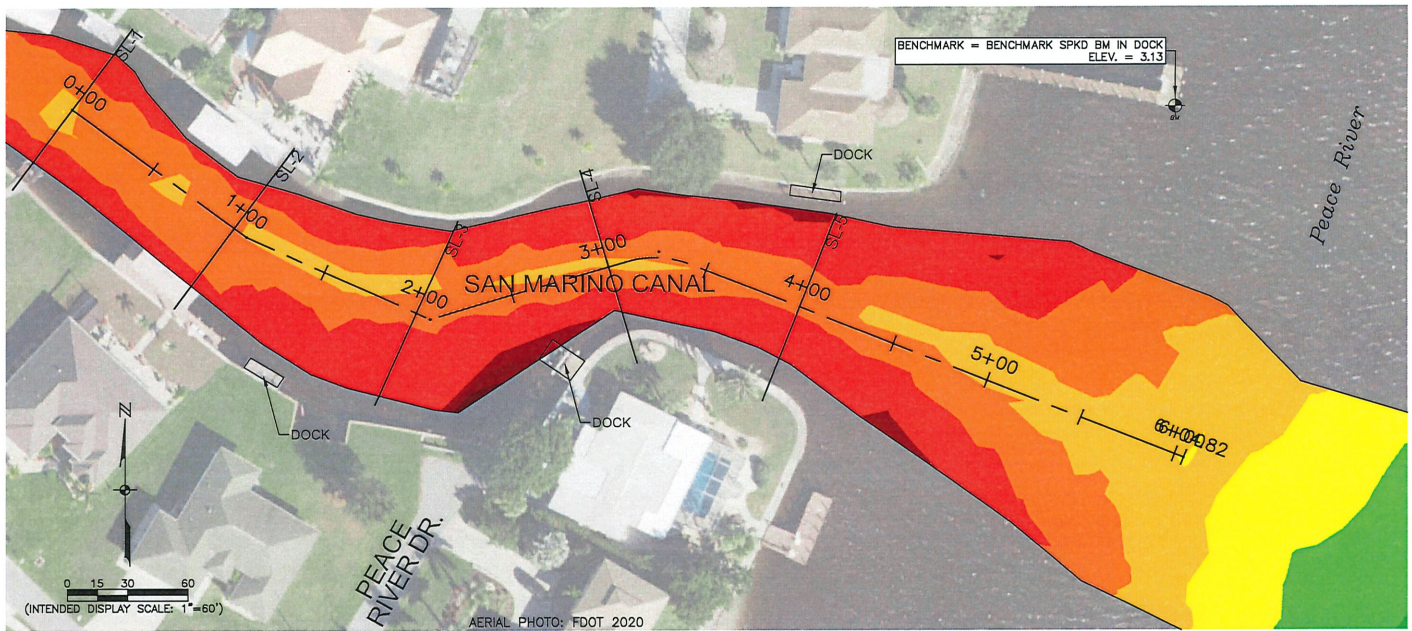
DATE: 01-14-2022  
PROJECT NO.: 20214155-002  
FILE NO.: 23-40-23  
SCALE: AS SHOWN

SAN SALVADOR CANAL (N.)

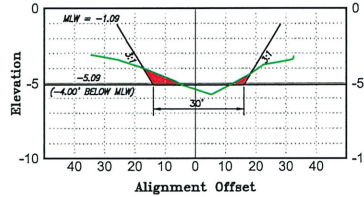
SHEET NUMBER  
10



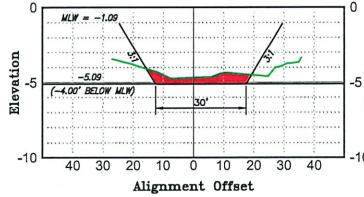
Elevations Table (NAVD88)	
Color	Elev. (FEET)
Dark Red	0 to -1
Red	-1 to -2
Dark Orange	-2 to -3
Orange	-3 to -4
Light Orange	-4 to -5
Yellow	-5 to -6
Light Green	-6 to -7
Green	-7 to -8
Dark Green	-8 to -9
Teal	-9 to -10
Light Blue	-10 to -11
Blue	-11 to -12
Dark Blue	-12 to -13
Very Dark Blue	-13 to -14
Purple	-14 to -15
Dark Purple	-15 to -16
Pink	-16 to -17
Red	-17 to -18
Dark Red	-18 to -19
Very Dark Red	-19 to -20



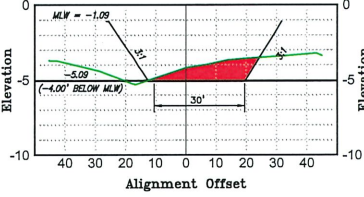
Cross Section at  
STA: 0+00 / SL-1  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



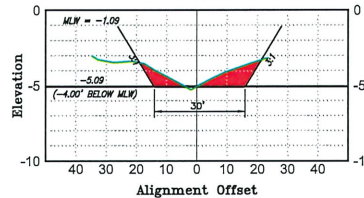
Cross Section at  
STA: 1+00 / SL-2  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



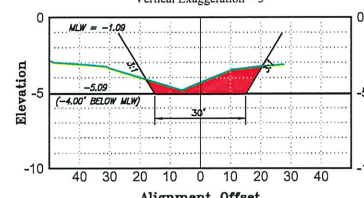
Cross Section at  
STA: 2+00 / SL-3  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



Cross Section at  
STA: 3+00 / SL-4  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



Cross Section at  
STA: 4+00 / SL-5  
Horiz Scale: 1" = 40'  
Vertical Exaggeration = 5'



Cut Volume Table (Cubic Yards)		
Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	45.98	45.98
2+00	96.08	142.06
3+00	113.32	255.39
4+00	105.69	361.08

REVISIONS	
NO.	DESCRIPTION

DATE: 01-14-2022  
PROJECT NO. 20214155-000  
FILE NO. 22-40-23  
SCALE: AS SHOWN

SAN MARINO CANAL

SHEET NUMBER

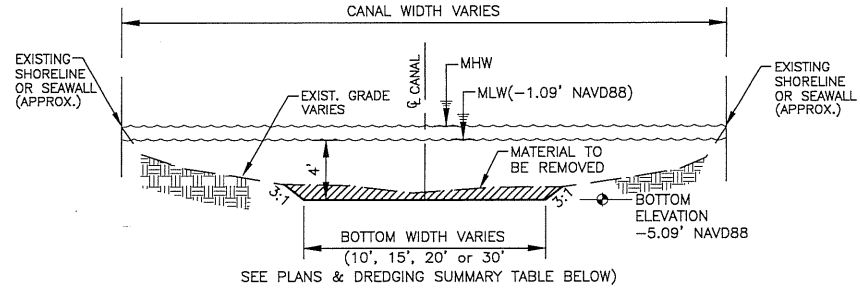
C:\2021\20214155\Drawings\214155-AD1.dwg (11-San Marino) MTT Jan 17, 2022 - 12:10pm

**DREDGING NOTES:**

- BENCHMARKS SHOWN ARE IN FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- PROPOSED DREDGE BOTTOM 4' DEPTH IS ELEVATION -5.09' NAVD88 OR -4' BELOW MLW OF -1.09' NAVD88.
- AN OVERDEPTH TOLERANCE OF 0.25' OR ELEVATION -5.34' NAVD88 WILL BE ALLOWED. HOWEVER, THE TOTAL PAY QUANTITY WILL NOT EXCEED THE QUANTITY BID.
- FULL DEPTH (-5.34' NAVD88) EXCAVATION OPERATIONS WILL COME NO CLOSER THAN 5' TO ANY SEAWALL OR DOCK PILING.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO DETERMINE THE EXACT LOCATION OF THEIR LINES BEFORE BEGINNING EXCAVATION OPERATIONS. COORDINATE WORK WITH THE UTILITY COMPANIES TO INSURE FACILITIES ARE PROTECTED AND SERVICE IS MAINTAINED.
- THE CONTRACTOR SHALL USE TURBIDITY CURTAINS AROUND THE DREDGING EQUIPMENT AT ALL TIMES AND AT NO TIME SHALL ACCESS BY THE BOATING PUBLIC BE IMPEDED.

**SPOIL SITE NOTES:**

- FOR THIS PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING A SUITABLE SPOIL OFFLOAD SITE WITHOUT WETLANDS OR ENDANGERED SPECIES.
- THE CONTRACTOR SHALL GET PRE-APPROVAL FROM THE COUNTY ALONG WITH THE PROPER AGREEMENTS WITH THE PRIVATE PROPERTY OWNER THAT ALSO NEEDS TO BE PRE-APPROVED AND ACCEPTED BY THE COUNTY. ANY ALTERNATE SITE SELECTED BY THE CONTRACTOR SHALL BE UPLAND AND USE PRECAUTIONS LISTED HEREIN AND IN THE PERMITS.
- SPOIL MATERIAL WILL BE HAULED TO THE ZEMEL ROAD LANDFILL. TRUCK ROUTE IS I-75 SOUTH TO TUCKERS GRADE AND SOUTH ON U.S. 41 TO ZEMEL RD. COUNTY WILL WAIVE TIPPING FEES.
- CONTRACTOR SHALL UTILIZE BEST MANAGEMENT PRACTICES AT ALL TIMES AND NOT ALLOW ANY WATER TO RETURN TO WATERS OF THE STATE.
- CONTRACTOR SHALL USE STAKED SILT FENCE AROUND THE SPOIL SITE. UPON COMPLETION CONTRACTOR SHALL RESTORE SITE TO BETTER THAN ORIGINAL CONDITIONS AS DETERMINED BY THE COUNTY AND RE-ESTABLISH GRASS ON ALL DISTURBED AND BARREN AREAS.

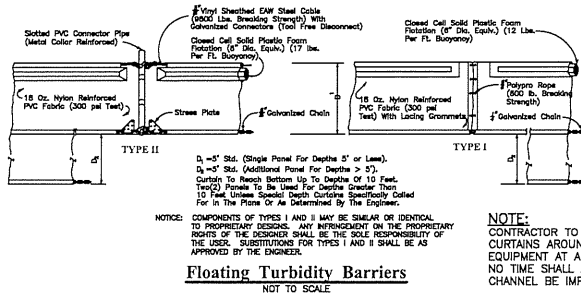


**Typ. Dredging Cross Section**

NOT TO SCALE

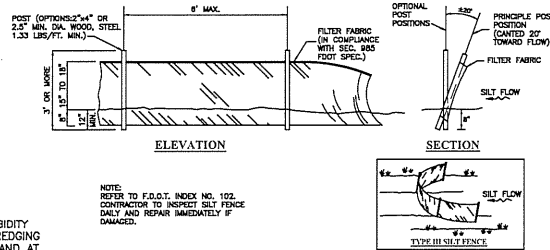
**HARBOUR HEIGHTS DREDGING SUMMARY TABLE:**

WATERWAY	APPROX. STATIONS	LENGTH	BOT. WIDTH	N.A.V.D.	QUANTITY
Balboa Canal (S.)	0+00 to 5+00	500 LF	20' B.W.	-5.09'	±16 C.Y.
Balboa Canal (N.)	0+00 to 4+88	488 LF	20' B.W.	-5.09'	±76 C.Y.
DeSoto Canal	0+00 to 3+00	300 LF	20' B.W.	-5.09'	±1 C.Y.
Santa Clara Canal	0+00 to 4+80	480 LF	30' B.W.	-5.09'	±273 C.Y.
Dover Canal	0+00 to 4+00	400 LF	15' B.W.	-5.09'	±6 C.Y.
Santa Barbara Canal	0+00 to 4+00	400 LF	10' B.W.	-5.09'	±7 C.Y.
San Salvador Canal (S.)	0+00 to 4+00	400 LF	15' B.W.	-5.09'	±73 C.Y.
San Salvador Canal (N.)	0+00 to 4+00	400 LF	15' B.W.	-5.09'	±30 C.Y.
San Marino Canal	0+00 to 6+00	600 LF	30' B.W.	-5.09'	±362 C.Y.
<b>TOTAL:</b>					<b>±844 C.Y.</b>



**Floating Turbidity Barriers**

NOT TO SCALE



**Type III Silt Fence**

NOT TO SCALE

NO.	REVISIONS DESCRIPTION

DATE: 01-14-2022  
PROJECT NO.: 20214155-000  
FILE NO.: 22-45-23  
SCALE: AS SHOWN

**CONSTRUCTION NOTES & DETAILS**

SHEET NUMBER