

**MINUTES
PIRATE HARBOR WATERWAY
MUNICIPAL SERVICE BENEFIT UNIT (MSBU)**

**ADVISORY BOARD REGULAR MEETING
WEDNESDAY AUGUST 23, 2023**

**10:31 a.m. – 12:19 p.m.
Punta Gorda Charlotte Library
401 Shreve Street, Punta Gorda, Florida**

Members Present: Robert DiMuzio, Chair
Charles Falesch, Vice-Chair
George Herl
Don Jhonson
Phil Smallwood

Members Absent: None

County Staff: Erica LeMaster, Community Liaison
Zach Patchell, Projects Manager

Guests: None

Call to Order / Roll Call:

The meeting was called to order at 10:31 a.m. A roll call was taken, and a quorum was present.

Changes to the Agenda / Motion to Approve Changes:

None

Citizen Input on Agenda Items (3 Minute Limit):

None

Approval of Minutes:

The draft minutes from August 23, 2023, were unanimously approved as submitted.

Unfinished Business:

- a. Interior Dredge Project: Mr. Patchell reported that we have received the permit from Army Corps to move forward with the Interior Dredge Project. He notified the group that there wasn't enough storm damage to benefit from applying for FEMA reimbursement. Conversation ensued regarding cost estimates. Mr. Patchell explained that we haven't received many bid requests for dredging and there would most likely be a cost increase. He will notify the group once he receives an updated cost estimate. Mr. Jhonson mentioned a potential lot that Public Works can use for staging which could be a cost savings for the group. Conversation followed regarding the Capital Improvement Program (CIP) and Mr. Patchell explained that we only have six years to use the funds. Concerns were voiced regarding the previous dredge, and Mr. Patchell explained that Coastal Engineering and himself would be overseeing the project stressing the benefit of doing routine dredges every 5-7 years.
- b. FY23 Post-Storm Survey: Mr. Patchell explained the results of the draft Post-Storm Bathymetric Survey. Clarification was requested on how the results are calculated, and Mr. Patchell advised the group that calculations are based off FEMA regulations. Conversation followed regarding locations that would benefit the most and would be the most cost effective. The group discussed multiple locations that would benefit from the project. Mr. Patchell explained that we can only dredge what is budgeted and he will try to include as much as he can within the budget. Mr. Dimuzio motioned to move forward with an interior

dredge project focusing on locations between 700 to 712 +50 and 824 to 839 +50, giving Zach the authority where he goes if excess funds become available. The motion passed unanimously.

- c. Seagrass Mitigation Monitoring: Mr. Patchell stated that the Seagrass Mitigation Monitoring is due and was sent out in the annual reminder. Explained that we must comply with the current requirement.

New Business:

- a. Financial Reports: The FY23 quarter three financial reports were reviewed. It was noted that the expenditures for Public Works Services is only showing totals up till March 31, 2023. The FY23 quarter three Monthly Funding report was reviewed and explained. The group discussed additional funding options to complete the entire interior dredge project. Ms. LeMaster will follow up with Fiscal Services and share her findings with the group.

Citizen Input on MSBU Items (3 Minute Limit):

None

Advisory Board Open Discussion:

Discussion ensued regarding Marine Marker Hurricane Repairs. Ms. LeMaster will follow up with Public Works.

Meeting Schedule / Items for Next Agenda:

Mr. Jhonson will be unable to attend the November meeting and requested to have the meeting rescheduled. Future meetings are tentatively scheduled at 10:30 a.m. at the Punta Gorda Charlotte Library as follows:

- November 15, 2023

The meeting adjourned at 12:19 p.m.

Submitted by: Erica LeMaster
Public Works Department



Chair Signature

11-16-23
Date

**AGENDA
PIRATE HARBOR WATERWAY
MUNICIPAL SERVICE BENEFIT UNIT (MSBU)**

**ADVISORY BOARD REGULAR MEETING
WEDNESDAY, August 23, 2023**

**10:30 a.m. Punta Gorda Charlotte Library
401 Shreve Street, Punta Gorda, Florida**

BOARD MEMBERS: Robert DiMuzio, Chair
Chuck Falesch, Vice-Chair
George Herl
Don Jhonson
Phillip Smallwood

COUNTY STAFF: Erica LeMaster, Community Liaison
Karlene McDonald, Operations Supervisor

PURPOSE: Regular Meeting

1. Call to Order / Roll Call
2. Changes to the Agenda / Motion to Approve Changes
3. Citizen Input on Agenda Items (3-Minute Limit)
4. Approval of Minutes: May 3, 2023
5. Unfinished Business
 - a. Interior Dredge Project
 - b. FY23 Post-storm Survey
 - c. Sea Grass Mitigation Monitoring
6. New Business
 - a. Financial Reports
7. Citizen Input on MSBU Items (3-Minute Limit)
8. Advisory Board Open Discussion
9. Meeting Schedule / Items for Next Agenda
10. Motion to Adjourn

Pirate Harbor Waterway MSBU

Fund Financial Report
Oct. 1, 2022 - June 30, 2023

	Actual FY2022	Adopted Budget FY2023	YTD Actual FY2023	Projected FY2023
Beginning Balance	\$174,598	\$219,240	\$233,048	\$233,048
Revenues				
Assessments & Earnings	103,826	104,607	110,337	104,607
Grant & Subsidy Revenue	-	-	-	-
Loans & Borrowing	-	391,000	-	-
Total Revenue	\$103,826	\$495,607	\$110,337	\$104,607
Expenditures				
Contract Services	-	-	-	-
Survey	9,249	25,000	-	-
Navigational Trimming	-	-	-	-
Public Works Services	3,108	4,655	371	4,655
Internal Charges	5,477	1,637	1,637	1,637
Purchased Services	10,986	11,145	15,801	16,701
Materials and Supplies	-	-	-	-
Capital Outlay	-	-	-	-
Debt Services	-	15,610	-	-
Project Costs				
Pirate Harbor Dredging FY23	16,555	467,645	1,239	1,239
Total Expenditures	\$45,376	\$525,692	\$19,048	\$24,232
Reserves (Ending Fund Balance)	\$233,048	\$189,155	\$324,336	\$313,423
Reserve %	83.7%	26.5%	94.5%	92.8%

Date Prepared: 7/20/2023

Monthly Funding Report

START DATE:

12/31/2022

END DATE:

05/31/2023

Pirate Harbor Waterway Unit

Project	WO Number	WO Description	Location	Date Worked	Labor Hours	Labor Cost	Materials Cost	Equip. Cost	Contractor Cost	Work Accompl	Total Cost
	7702	Contracted - Mowing		04/07/2023	0.00	0.00	0.00	0.00	377.64		377.64
	7702	Contracted - Mowing		03/23/2023	0.25	21.36	0.00	0.00	0.00		21.36
	7702	Contracted - Mowing		03/24/2023	0.25	21.36	0.00	0.00	0.00		21.36
	7702	Contracted - Mowing		05/03/2023	0.25	21.36	0.00	0.00	0.00		21.36
		Contract Management Total			0.75	64.09	0.00	0.00	0.00		64.08
	Work Order 7702 Total	Safety Mowing & Litter Removal			0.75	64.09	0.00	0.00	377.64	8.70	441.72
#22-530 Safety Mowing - South County											
		Contracted - Mowing Total			0.75	64.09	0.00	0.00	377.64	8.70	441.72
	6152	MSBU Administrative Work		05/03/2023	1.50	109.41	0.00	0.00	0.00		109.41
		MSBU Meeting Total			1.50	109.41	0.00	0.00	0.00		109.41
	6152	MSBU Administrative Work		05/03/2023	3.25	237.06	0.00	0.00	0.00		237.06
		MSBU Minutes Total			3.25	237.06	0.00	0.00	0.00		237.06
	6152	MSBU Administrative Work		05/01/2023	0.25	18.24	0.00	0.00	0.00		18.24
	6152	MSBU Administrative Work		05/02/2023	2.00	145.88	0.00	0.00	0.00		145.88
	6152	MSBU Administrative Work		05/03/2023	1.00	72.94	0.00	0.00	0.00		72.94
	6152	MSBU Administrative Work		05/09/2023	1.00	72.94	0.00	0.00	0.00		72.94
	6152	MSBU Administrative Work		05/17/2023	1.00	72.94	0.00	0.00	0.00		72.94
	6152	MSBU Administrative Work		05/24/2023	1.00	72.94	0.00	0.00	0.00		72.94
	6152	MSBU Administrative Work		05/25/2023	3.00	218.82	0.00	0.00	0.00		218.82
		Administrative Time Total			9.25	674.70	0.00	0.00	0.00		674.70
	Work Order 6152 Total				14.00	1,021.16	0.00	0.00	0.00	0.00	1,021.17

Monthly Funding Report

START DATE:

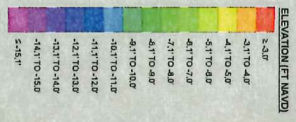
12/31/2022

END DATE:

05/31/2023

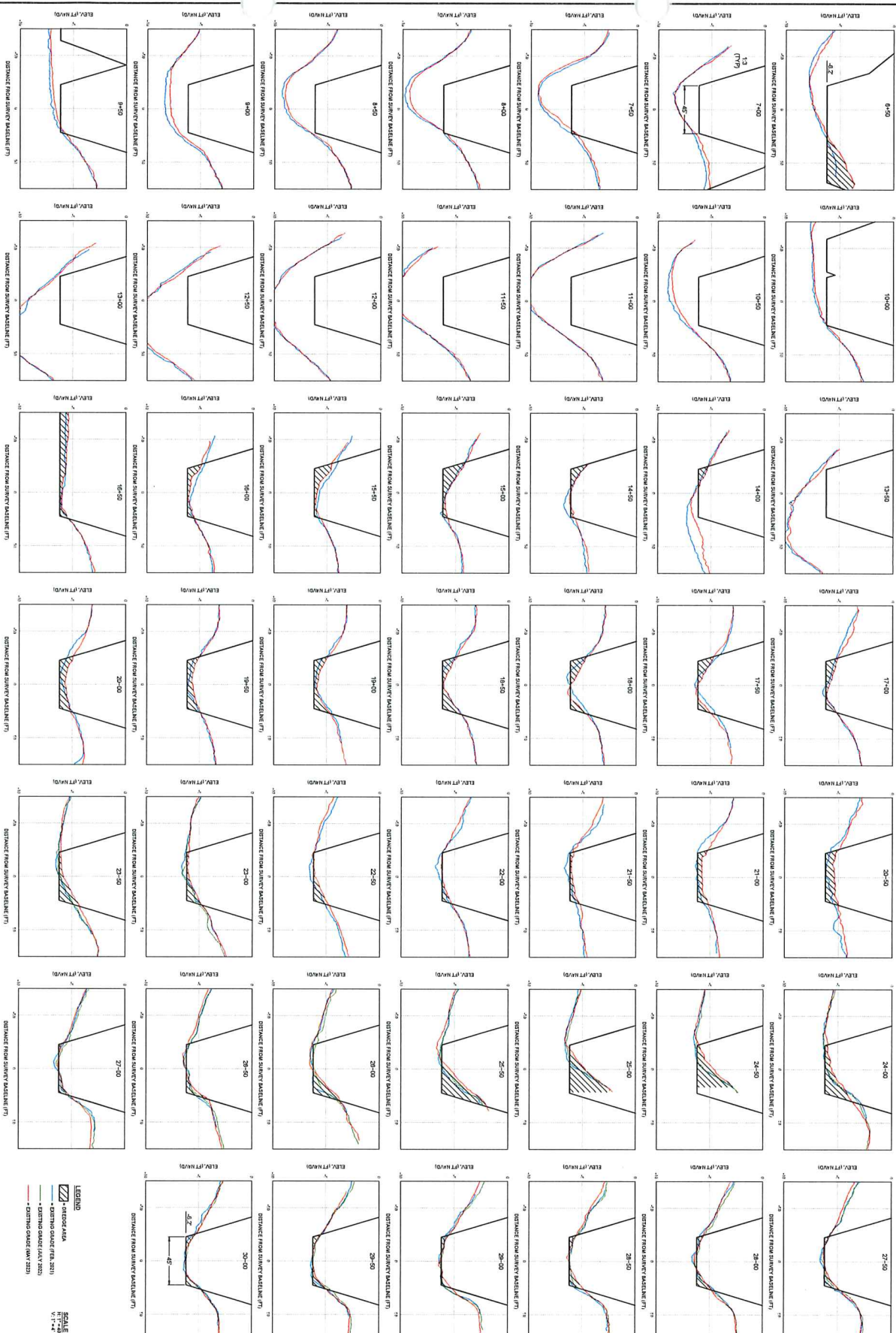
Pirate Harbor Waterway Unit

Project	WO Number	WO Description	Location	Date Worked	Labor Hours	Labor Cost	Materials Cost	Equip. Cost	Contractor Cost	Work Accompl	Total Cost
		MSBU Administrative Work Total			14.00	1,021.16	0.00	0.00	0.00	0.00	1,021.17
	2862	Project Management		02/15/2023	1.00	85.45	0.00	0.00	0.00		85.45
	2862	Project Management		03/10/2023	0.25	21.36	0.00	0.00	0.00		21.36
	2862	Project Management		05/02/2023	1.00	85.45	0.00	0.00	0.00		85.45
	2862	Project Management		05/11/2023	0.25	21.36	0.00	0.00	0.00		21.36
	2862	Project Management		05/24/2023	0.50	42.73	0.00	0.00	0.00		42.73
	2862	Project Management		02/14/2023	0.25	21.36	0.00	0.00	0.00		21.36
	2862	Project Management		03/24/2023	1.00	85.45	0.00	0.00	0.00		85.45
	2862	Project Management		04/07/2023	0.25	21.36	0.00	0.00	0.00		21.36
	2862	Project Management		04/21/2023	0.25	21.36	0.00	0.00	0.00		21.36
	2862	Project Management		05/03/2023	2.00	170.90	0.00	0.00	0.00		170.90
	2862	Project Management		05/19/2023	0.25	21.36	0.00	0.00	0.00		21.36
		Public Outreach Total			4.00	341.80	0.00	0.00	0.00		341.79
	2862	Project Management		02/16/2023	2.50	213.63	0.00	0.00	0.00		213.63
		Project Meetings Total			2.50	213.63	0.00	0.00	0.00		213.63
	Work Order 2862 Total		Pirate Harbor WW Dredge		9.50	811.78	0.00	0.00	0.00	0.00	811.77
cmd2202 - Pirate Harbor Dredging FY23											
		Project Management Total			9.50	811.78	0.00	0.00	0.00	0.00	811.77
		Pirate Harbor Waterway Unit Total			24.25	1,897.02	0.00	0.00	377.64		2,274.66



SHEET 2 FILE NO. 23075-2	COASTAL ENGINEERING CONSULTANTS INC. Serving Florida Since 1977 28421 BONITA CROSSINGS BLVD BOKITA SPRINGS, FLORIDA 34135	COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING: CA 2484 SURVEYING: LB 2484 PHONE: (339)443-2324 FAX: (339)843-1143 www.coastalengineering.com E-Mail: info@ceci.com	CLIENT: CHARLOTTE COUNTY TITLE: PIRATE HARBOR BATHYMETRIC SURVEY DETAILED PLAN VIEW	DATE: 7/10/2023 DRAWN: SDB CHECKED: RJE SEC. TYP. FIG. ACAD NO. 23075-Pirate Harbor.dwg REF. NO.	SCALE: AS NOTED NO. DATE BY REVISION DESCRIPTION
				23.075	NO. DATE BY REVISION DESCRIPTION

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SHEET 3
FILE NO. 23075-PC3

COASTAL ENGINEERING CONSULTANTS INC.
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 BONITA SPRINGS, FLORIDA 34135

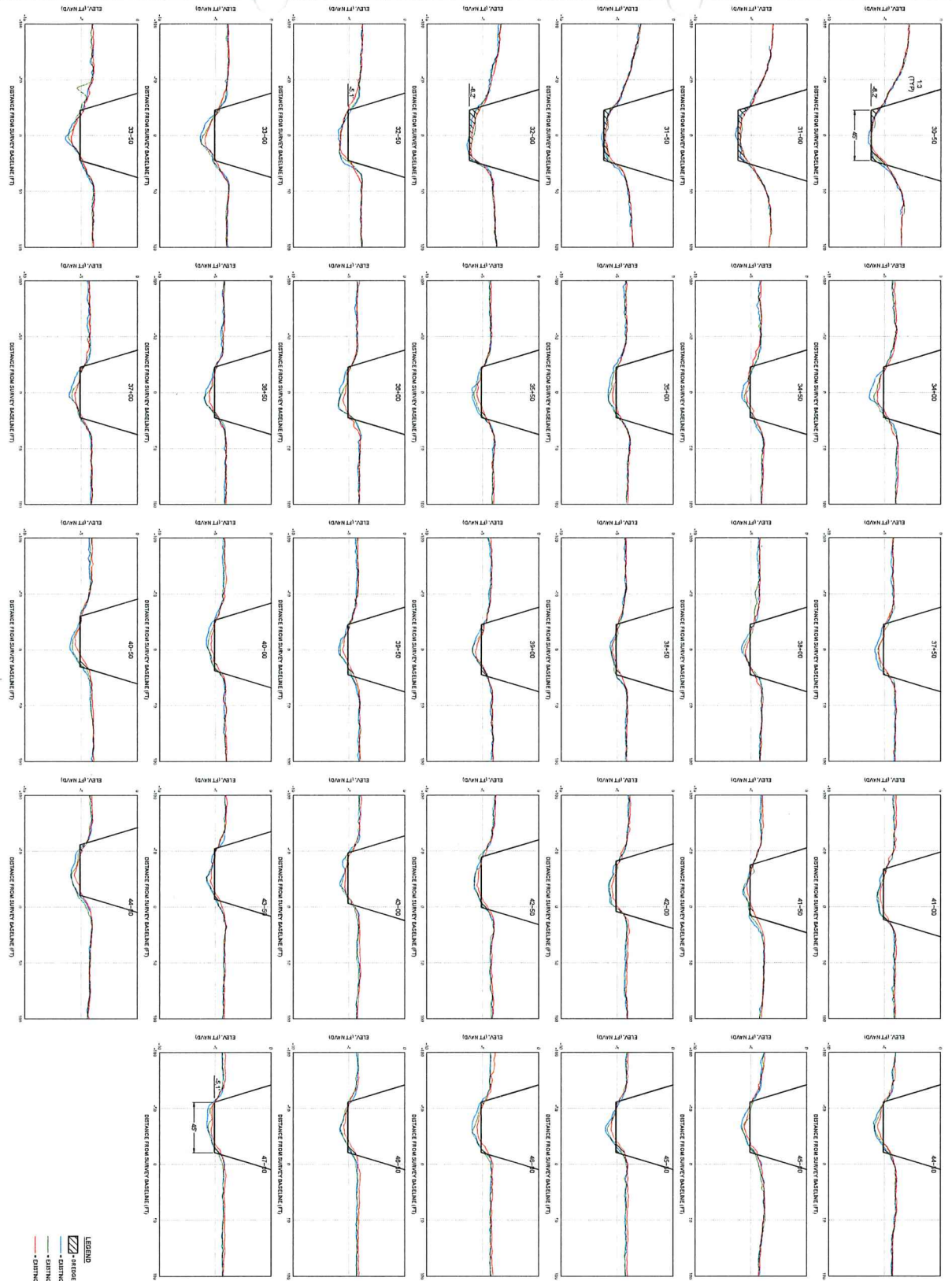
COASTAL & MARINE ENGINEERING
 ENVIRONMENTAL & CIVIL ORIGINAL SERVICES
 SURVEY AND MAPPING
 ENGINEERING, CA 2484
 SURVEYING, LB 2454
 PHONE: (239)643-2324
 FAX: (239)643-1143
 www.coastal-engineering.com
 E-Mail: info@ceci.com

CLIENT: **CHARLOTTE COUNTY**
 TITLE: **PIRATE HARBOR
 BATHYMETRIC SURVEY
 CROSS SECTIONS: 6+50 TO 30+00**

DATE: 7/19/2012
 DRAWN: SDB
 CHECKED: MTF
 SEC.: TWP.
 ACAD. NO.: 23075-Pirate Harbor.dwg
 REF. NO.: 23,075

SCALE: AS NOTED
 F.B.
 PD.
 RWG.
 NO. DATE BY REVISION DESCRIPTION

DRAFT



LEGEND

- BEDROCK DATA
- DISTINGO CHANNEL (FEB. 2021)
- DISTINGO CHANNEL (JULY 2020)
- DISTINGO CHANNEL (MAY 2020)

SCALE
V. 1" = 4'

SHEET 4
FILE NO. 23075-4

COASTAL ENGINEERING CONSULTANTS INC.
Serving Florida Since 1977
28421 BONITA CROSSINGS BLVD
BONITA SPRINGS, FL ORGIDA 34135

COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING: CA 2484 SURVEYING: LB 2464
PHONE: (239)643-2324
FAX: (239)643-1143
www.coastalmgineering.com
EMAIL: info@ceci.com

CUSTOMER:
TITLE:

CHARLOTTE COUNTY
PIRATE HARBOR
BATHYMETRIC SURVEY
CROSS SECTIONS: 30+50 TO 47+00

DATE: 7/19/2021
DRAWN: SDB
CHECKED: MTP
SEC: TWP. RING
ACAD NO.: 23075-Pirate Harbor.dwg
REF. NO.: 23.075

SCALE: AS NOTED
NO. DATE BY REVISION DESCRIPTION

DRAFT



SHEET 5
FILE NO.: 2307PHS

COASTAL ENGINEERING CONSULTANTS INC.
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28421 BONITA CROSSINGS BLVD
BOKITA SPRINGS, FLORIDA 34135

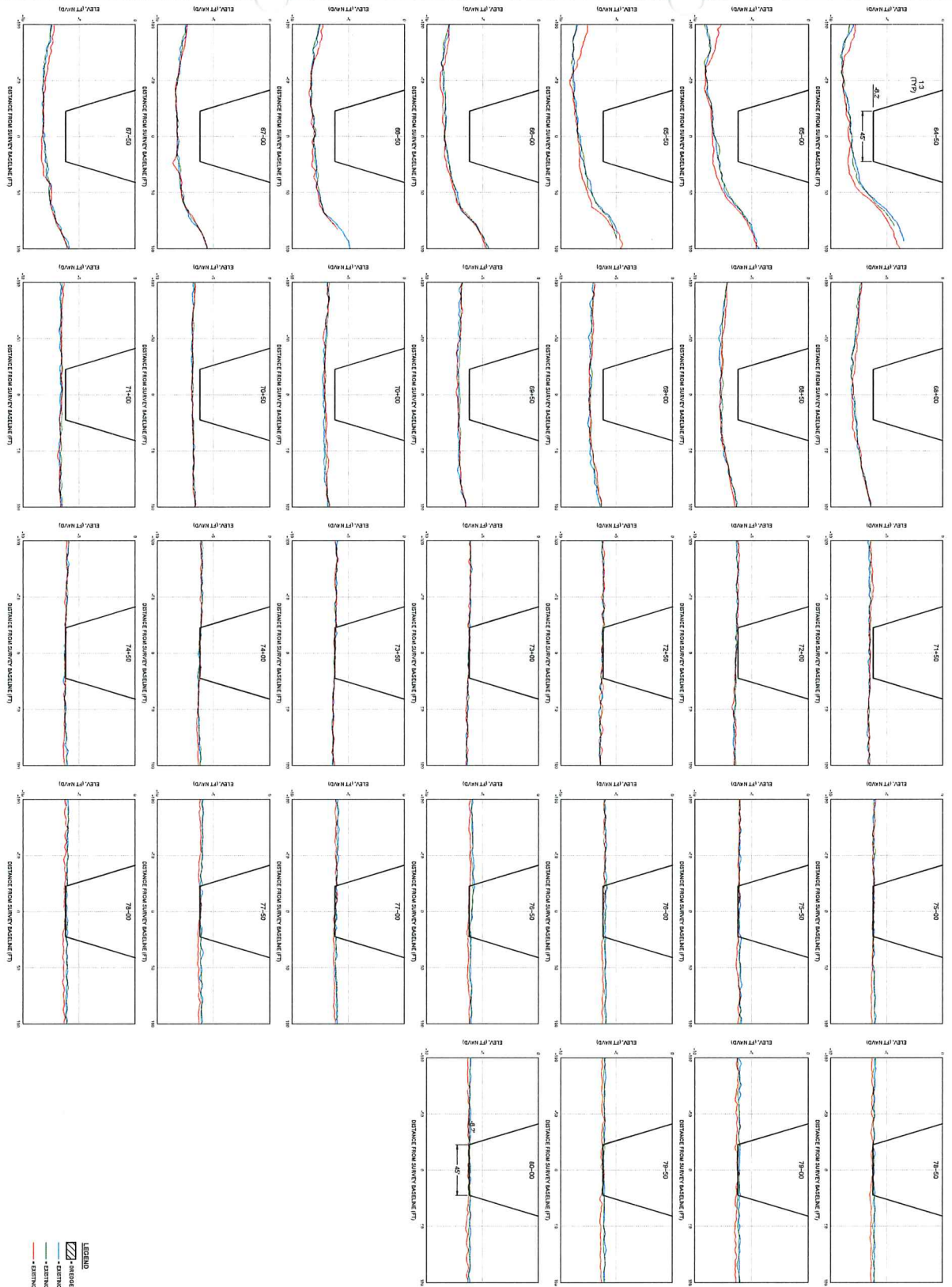
COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES
SURVEY AND MAPPING ENGINEERING: CA 2484 SURVEYING: LB 2484
PHONE: (239)643-2324 FAX: (239)643-1143
www.coastalengineering.com E-Mail: info@cei.com

COUNTY: CHARLOTTE COUNTY
TITLE: PIRATE HARBOR BATHYMETRIC SURVEY CROSS SECTIONS: 47+50 TO 64+00

DATE: 7/10/2023
DRAWN: SDB
CHECKED: MTP
SEC: TWP
ACAD NO.: 23075-Pirate Harbor.dwg
REF. NO.: 23.075

SCALE: AS NOTED
NO. DATE BY REVISION DESCRIPTION

DRAFT



LEGEND

- EXISTING CHANNEL (PINK LINE)
- EXISTING CHANNEL (RED LINE)
- EXISTING CHANNEL (BLUE LINE)

SCALE
1" = 10'

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 BONITA SPRINGS, FLORIDA 34135

COASTAL & MARINE ENGINEERING
 ENVIRONMENTAL & GEOLOGICAL SERVICES
 SURVEY AND MAPPING
 ENGINEERING: CA 2484
 SURVEYING: LB 2484

PHONE: (329)943-2324
 FAX: (329)943-1143
 www.coastalengineering.com
 EMail: info@ceci.com

COUNTY: **CHARLOTTE COUNTY**
 TITLE: **PIRATE HARBOR BATHYMETRIC SURVEY CROSS SECTIONS: 64+50 TO 80+00**

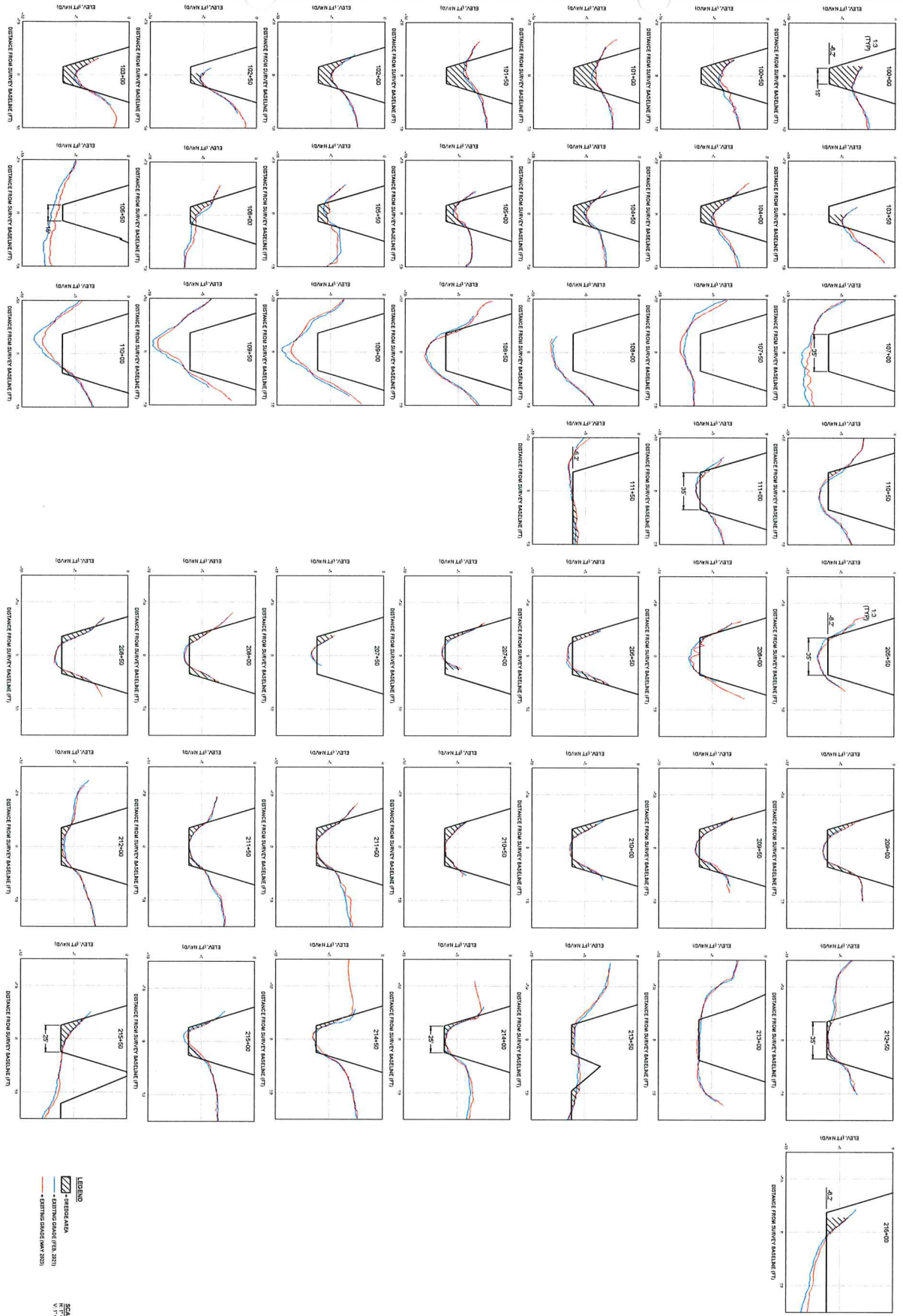
DATE: 7/10/2021
 DRAWN: SDB
 CHECKED: MTP
 REC. TWP. RGV.
 ACAD NO. 23075-Pirate Harbor.dwg
 REF. NO.

SCALE: AS NOTED

DRAFT

NO.	DATE	BY	REVISION DESCRIPTION
23,075			

SHEET 6
 FILE NO. 23075.dwg



LEGEND
 ■ EXISTING DATA
 ■ EDITING DATA (FEB 2011)
 ■ EDITING DATA (MAY 2021)

SCALE
 1" = 4'

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 BONITA SPRINGS, FLORIDA 34135

COASTAL & MARINE ENGINEERING
 ENVIRONMENTAL & GEOLOGICAL SERVICES
 SURVEY AND MAPPING
 ENGINEERING, CA 2484
 SURVEYING, LB 2464

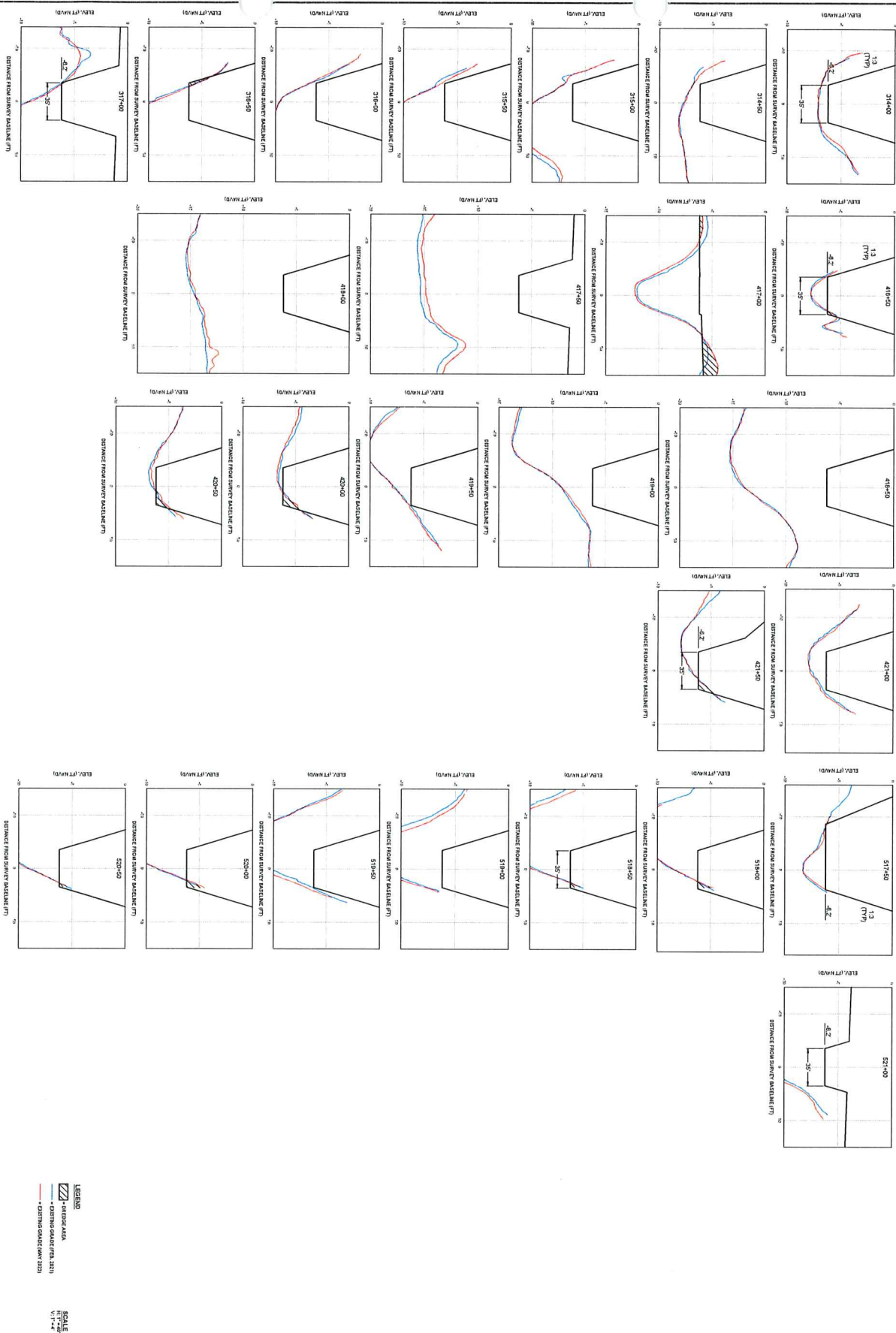
PHONE: (239)643-2324
 FAX: (239)643-1143
 www.coastalengineering.com
 E-Mail: info@ceci.com

CLIENT: **CHARLOTTE COUNTY**
 TITLE: **PIRATE HARBOR BATHYMETRIC SURVEY CROSS SECTIONS: 100+00 TO 111+50 AND 205+50 TO 216+00**

DATE: 7/10/2024
 DRAWN: SDB
 CHECKED: MTP
 SEC: FWP, RRG
 ACAD NO.: 23075-Pirate Harbor.dwg
 REF. NO.: 23,075

SCALE: AS NOTED
 NO. DATE BY REVISION DESCRIPTION

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SHEET 3
FILE NO. 23075-PM4

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BONITA SPRINGS, FLORIDA 34135

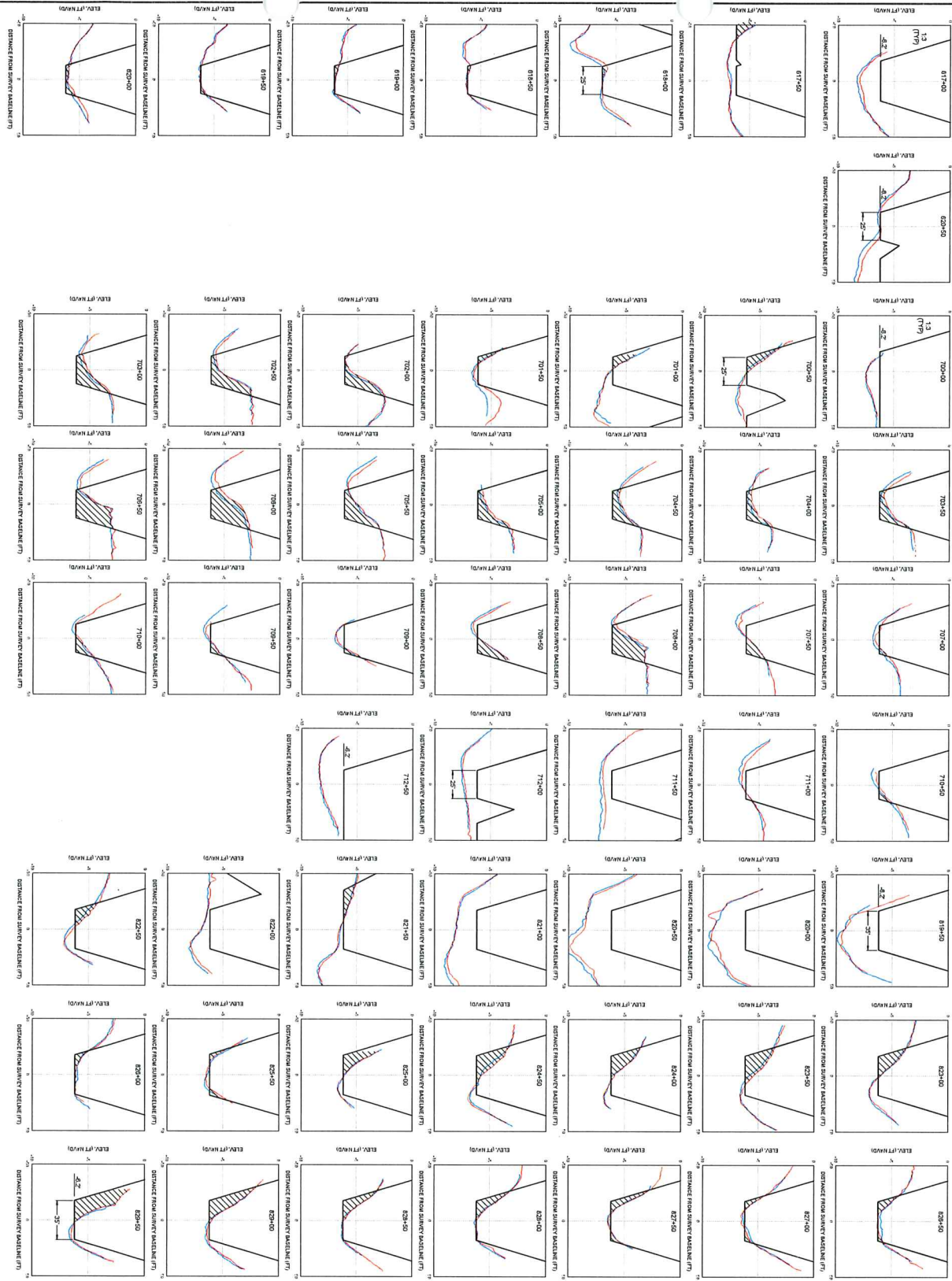
COASTAL & MARINE ENGINEERING
ENVIRONMENTAL & GEOLOGICAL SERVICES
SURVEY AND MAPPING
ENGINEERING, CA 2484
SURVEYING, LB 2484
PHONE: (239)643-2324
FAX: (239)643-1143
www.coastalengineering.com
E-Mail: info@cecif.com

CLIENT: CHARLOTTE COUNTY
TITLE: PIRATE HARBOR BATHYMETRIC SURVEY
CROSS SECTIONS: 314+00 TO 317+00, 416+50 TO 421+50, 517+50 TO 521+00

DATE: 7/10/2023
DRAWN: SDE
CHECKED: MTP
SEC: TWP. RING.
ACAD NO. 23075-Pirate Harbor.dwg
REF. NO.

SCALE: AS NOTED
F.B.
MTP
RING.
23075-PM4
NO. DATE BY REVISION DESCRIPTION

DRAFT



SCALE
 1" = 100'
LEGEND
 - - - - - INTERPOLATED DATA
 - - - - - EXISTING CHANNEL (PRE 2011)
 - - - - - EXISTING CHANNEL (JAN 2011)

COASTAL ENGINEERING CONSULTANTS INC.
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 28421 BONITA CROSSINGS BLVD
 BONITA SPRINGS, FLORIDA 34135
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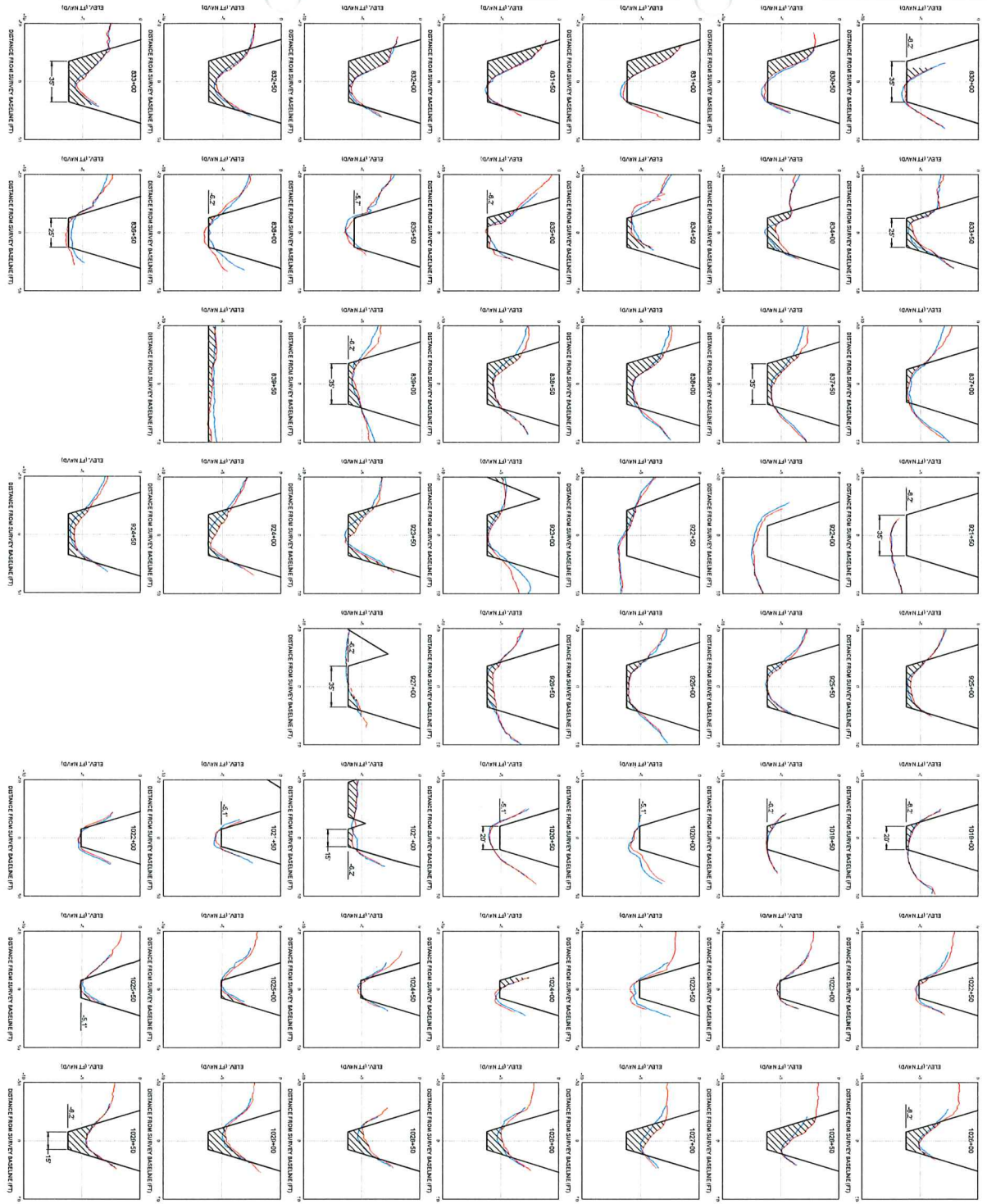
CLIENT: **CHARLOTTE COUNTY**
 TITLE: **PIRATE HARBOR BATHYMETRIC SURVEY**
CROSS SECTIONS: 617+00 TO 620+00, 700+00 TO 712+00, 819+00 TO 829+00

DATE: 7/10/2012
 DRAWN: SDB
 CHECKED: MTP
 SEC: THP
 ACAD NO.: 23075-Pirate Harbor.dwg
 REF. NO.: 23.075

SCALE: AS NOTED
 THE CLIENT AND THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA AND THE INFORMATION PROVIDED TO THE ENGINEER. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT DESCRIBED IN THIS DRAWING. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE DATA OR THE INFORMATION PROVIDED TO THE ENGINEER. THE ENGINEER'S LIABILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT DESCRIBED IN THIS DRAWING.

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NO.	DATE	BY	REVISION DESCRIPTION
23.075			



COASTAL ENGINEERING CONSULTANTS INC.
 Serving Florida Since 1977
 28421 BONITA CROSSINGS BLVD
 BONITA SPRINGS, FLORIDA 34135

COASTAL & MARINE ENGINEERING
 ENVIRONMENTAL & GEOLOGICAL SERVICES
 SURVEY AND MAPPING
 ENGINEERING: CA 2484
 SURVEYING: LB 2464

PHONE: (239)843-2324
 FAX: (239)843-1143
 www.coastalengineering.com
 E-Mail: info@ceci.com

CLIENT: **CHARLOTTE COUNTY**
 TITLE: **PIRATE HARBOR BATHYMETRIC SURVEY**
CROSS SECTIONS: 830+00 TO 839+50, 921+50 TO 927+00, 1019+00 TO 1029+50

DATE	7/10/2009	SCALE	AS NOTED
DRAWN	SDB	CHECKED	PSL
SEC.	MTP	TYP.	910G
ACAD NO.	23075-Pirate Harbor.dwg		
REF. NO.			

NO.	DATE	BY	REVISION DESCRIPTION
23.075			

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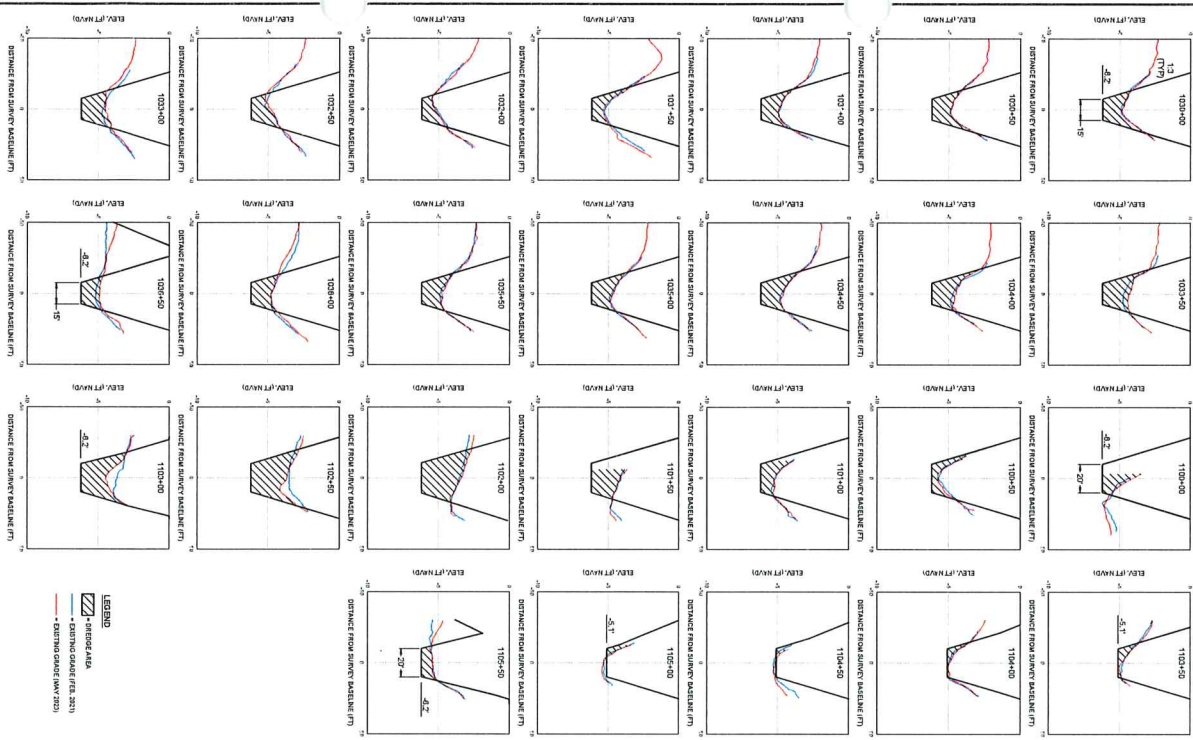


FIGURE 11
BATHYMETRIC CROSS SECTIONS AND ALIGNMENT LINE TABLE

STATION	SECTION	START POINT (E. N.)	END POINT (E. N.)
1100+00	1100+00	1100+00.00	1100+00.00
1100+25	1100+25	1100+25.00	1100+25.00
1100+50	1100+50	1100+50.00	1100+50.00
1101+00	1101+00	1101+00.00	1101+00.00
1101+25	1101+25	1101+25.00	1101+25.00
1101+50	1101+50	1101+50.00	1101+50.00
1102+00	1102+00	1102+00.00	1102+00.00
1102+25	1102+25	1102+25.00	1102+25.00
1102+50	1102+50	1102+50.00	1102+50.00
1103+00	1103+00	1103+00.00	1103+00.00
1103+25	1103+25	1103+25.00	1103+25.00
1103+50	1103+50	1103+50.00	1103+50.00

COASTAL ENGINEERING CONSULTANTS INC.
28421 BONITA CROSSINGS BLVD
BONITA SPRINGS, FLORIDA 34135

COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES
SURVEY AND MAPPING
ENGINEERING: CA 2484
SURVEYING: LB 2464

CLIENT: CHARLOTTE COUNTY
TITLE: PIRATE HARBOR BATHYMETRIC SURVEY
CROSS SECTIONS: 1030+00 TO 1036+50, 1100+00 TO 1105+50 AND ALIGNMENT LINE TABLE

DATE: 7/19/2021
DRAWN: SDB
CHECKED: MTP
SEC. TYP. RWG
ACAD NO. 23075-Pirate Harbor.dwg
REF. NO.

SCALE: AS NOTED
F.B.
PG.
RNG.
NO. DATE BY REVISION DESCRIPTION
23.075

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**PIRATE HARBOR
POST-IAN STORM ASSESSMENT
STORM IMPACT AND BACKGROUND VOLUMETRIC CHANGES**

DRAFT

CEC FILE NO. 23.075

JULY 31, 2023

STATION	FEB. 2021 TO JULY 2022 VOLUME CHANGE (CY)	JULY 2022 TO MAY 2023 VOLUME CHANGE (CY)	JULY 2022 TO MAY 2023 BACKGROUND CHANGE (CY)	VOLUME CHANGE DUE TO HURRICANE IAN (CY)
21+50	0.0	0.0	0.0	0.0
22+00	-8.1	21.1	-4.9	26.0
22+50	-12.2	24.2	-7.4	31.6
23+00	-10.7	24.9	-6.5	31.4
23+50	-0.2	22.7	-0.1	22.8
24+00	2.8	23.6	1.7	21.9
24+50	2.6	11.1	1.6	9.5
25+00	16.3	15.5	9.9	5.6
25+50	22.1	28.2	13.5	14.7
26+00	16.9	23.5	10.3	13.2
26+50	12.2	9.7	7.4	2.3
27+00	7.8	-1.9	4.7	-6.7
27+50	10.2	-0.9	6.2	-7.2
28+00	8.9	1.3	5.4	-4.1
28+50	8.9	1.7	5.4	-3.7
29+00	8.4	3.8	5.1	-1.3
29+50	8.3	0.1	5.0	-4.9
30+00	8.8	-2.3	5.4	-7.6
30+50	7.5	2.0	4.6	-2.6
31+00	13.5	3.3	8.2	-5.0
31+50	15.3	3.1	9.3	-6.2
32+00	13.8	5.3	8.4	-3.1
32+50	7.3	2.8	4.4	-1.6
33+00	0.4	-0.3	0.3	-0.6
33+50	1.1	1.1	0.7	0.5
34+00	-0.6	3.4	-0.4	3.8
34+50	-0.1	2.4	-0.1	2.4
35+00	0.5	2.3	0.3	2.0
35+50	0.3	3.7	0.2	3.6
36+00	0.9	1.5	0.5	0.9
36+50	1.5	0.2	0.9	-0.7
37+00	1.5	1.3	0.9	0.4
37+50	3.1	0.2	1.9	-1.7
38+00	5.5	-2.8	3.3	-6.2
38+50	4.6	-1.7	2.8	-4.5
39+00	3.5	1.0	2.1	-1.1
39+50	3.3	2.3	2.0	0.2
40+00	2.2	3.6	1.3	2.2
40+50	1.8	5.1	1.1	4.1

PIRATE HARBOR
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41+00	2.2	5.0	1.3	3.7
41+50	3.4	3.1	2.1	1.0
42+00	3.7	1.8	2.3	-0.4
42+50	2.3	2.3	1.4	0.9
43+00	0.7	3.3	0.4	2.9
43+50	0.5	2.4	0.3	2.1
44+00	1.6	2.0	1.0	1.0
44+50	2.5	1.2	1.5	-0.3
45+00	2.6	1.1	1.6	-0.5
45+50	1.7	2.7	1.0	1.7
46+00	1.2	4.9	0.8	4.1
46+50	0.5	6.0	0.3	5.8
47+00	0.1	4.9	0.1	4.8
47+50	0.5	4.1	0.3	3.8
48+00	0.6	4.2	0.4	3.8
48+50	1.8	3.6	1.1	2.5
49+00	1.8	4.2	1.1	3.1
49+50	0.7	2.8	0.4	2.3
50+00	1.1	-0.2	0.7	-0.9
50+50	1.3	-1.6	0.8	-2.4
51+00	1.2	-1.9	0.7	-2.7
51+50	0.5	-1.7	0.3	-1.9
52+00	0.4	-2.2	0.3	-2.5
52+50	0.7	-1.7	0.4	-2.0
53+00	0.0	-0.8	0.0	-0.8
53+50	-0.6	-2.5	-0.4	-2.1
54+00	-0.4	-2.9	-0.2	-2.7
54+50	0.7	-1.6	0.4	-2.0
55+00	5.3	-4.5	3.2	-7.7
55+50	7.0	-9.2	4.3	-13.5
56+00	6.6	-10.2	4.0	-14.2
56+50	4.5	-7.7	2.7	-10.4
57+00	2.3	-4.0	1.4	-5.4
57+50	2.1	-1.4	1.3	-2.7
58+00	-0.7	0.9	-0.4	1.3
58+50	-0.6	1.0	-0.4	1.4
59+00	0.0	0.0	0.0	0.0
59+50	0.0	0.0	0.0	0.0
60+00	0.0	0.0	0.0	0.0
60+50	-0.3	-1.4	-0.2	-1.2
61+00	0.1	-1.6	0.0	-1.6
61+50	0.0	-0.2	0.0	-0.2
62+00	-0.4	0.8	-0.3	1.1

**PIRATE HARBOR
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62+50	-0.1	0.8	-0.1	0.8
63+00	0.0	0.0	0.0	0.0
63+50	0.0	0.0	0.0	0.0
64+00	0.0	0.0	0.0	0.0
64+50	0.0	0.0	0.0	0.0
65+00	0.0	0.0	0.0	0.0
65+50	0.0	0.0	0.0	0.0
66+00	0.0	0.0	0.0	0.0
66+50	0.0	0.0	0.0	0.0
67+00	0.0	0.0	0.0	0.0
67+50	0.0	0.0	0.0	0.0
68+00	0.0	0.0	0.0	0.0
68+50	0.0	0.0	0.0	0.0
69+00	0.0	0.0	0.0	0.0
69+50	0.0	0.0	0.0	0.0
70+00	0.0	0.0	0.0	0.0
70+50	0.0	0.0	0.0	0.0
71+00	0.0	0.0	0.0	0.0
71+50	0.0	0.0	0.0	0.0
72+00	0.0	0.1	0.0	0.1
72+50	0.7	-0.6	0.4	-1.0
73+00	0.8	-0.3	0.5	-0.8
73+50	-0.2	-0.1	-0.1	0.0
74+00	-0.8	0.9	-0.5	1.3
74+50	-0.4	1.5	-0.2	1.7
75+00	0.2	-0.4	0.1	-0.5
75+50	-2.6	-1.7	-1.6	-0.1
76+00	-5.2	-6.1	-3.2	-2.9
76+50	-3.2	-13.7	-2.0	-11.8
77+00	-1.7	-9.8	-1.1	-8.7
77+50	-2.1	-3.6	-1.2	-2.3
78+00	-3.5	-5.7	-2.1	-3.6
78+50	-4.3	-5.6	-2.6	-3.0
79+00	-4.5	-5.6	-2.7	-2.9
79+50	-3.2	-5.7	-1.9	-3.7
80+00	-1.3	-4.0	-0.8	-3.2
MEASURED TOTAL STA 21+50 - STA 80+00 (CY)				59
MEASURED LINEAR CHANGE STA 21+50 - STA 80+00 (CY/FT)				0.01

**PIRATE HARBOR
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Note: (+) = INFILL
 (-) = SCOUR

ESTIMATED CHANGE (CY)	
STA 6+50 - STA 21+50	15
STA 100+00 - STA 111+50	12
STA 205+50 - STA 216+00	11
STA 314+00 - STA 317+00	3
STA 416+50 - STA 421+50	5
STA 517+50 - STA 521+00	4
STA 617+00 - STA 620+50	4
STA 700+00 - STA 712+50	13
STA 819+50 - STA 839+50	20
STA 921+50 - STA 927+00	6
STA 1019+00 - STA 1036+50	18
STA 1100+00 - STA 1105+00	5
TOTAL CHANGE (CY)	172



**Pirate Harbor Waterway
Municipal Service Benefit Unit**

Advisory Board Meeting Attendance
Wednesday, August 23, 2023

Location: 401 Shreve Street, Punta Gorda, Florida
Punta Gorda Charlotte Library

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