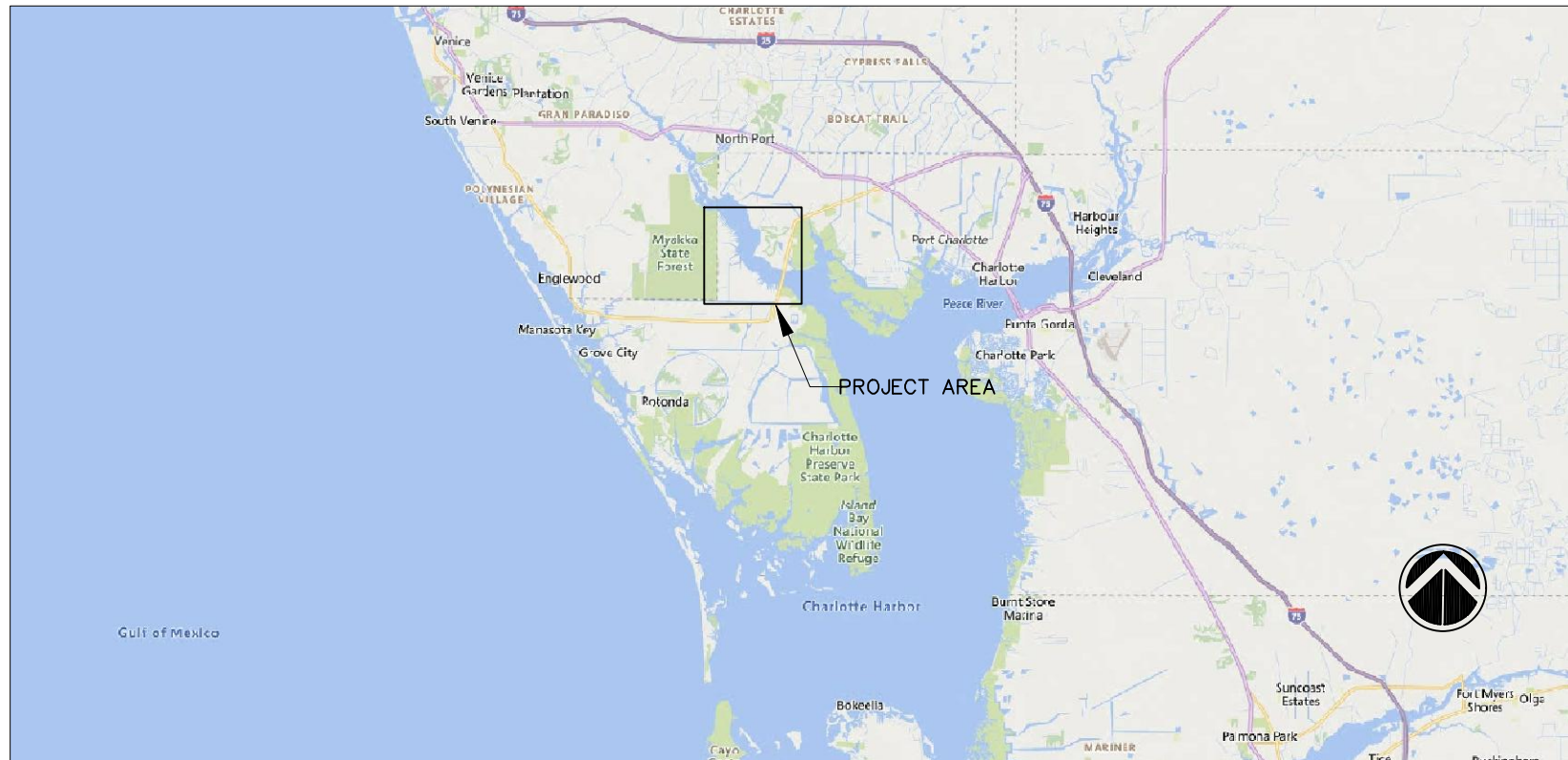


GULF COVE WATERWAY MAINTENANCE DREDGE

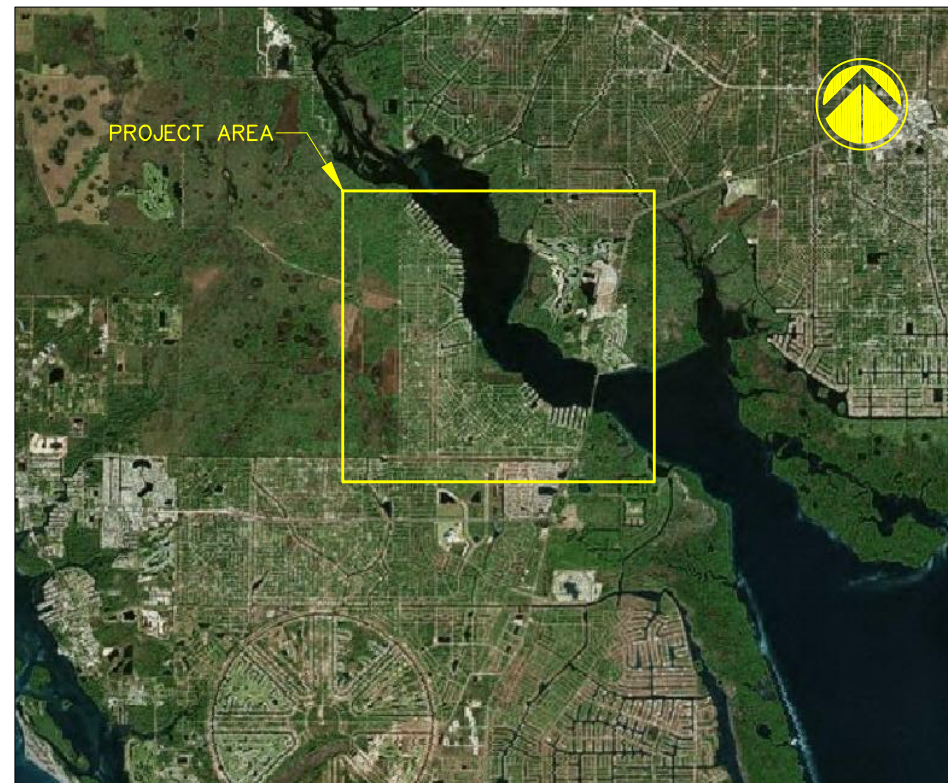
90% DESIGN DRAWINGS PORT CHARLOTTE, FLORIDA



VICINITY MAP

SHEET INDEX	
SHEET NUMBERS	SHEET TITLE
C-000	COVER
C-100	PROJECT MAP SHEET
C-101	PROJECT OVERVIEW - CANAL VOLUMES
C-102 TO C-109	ISOPACH MAPS - EXISTING GROUND SURVEY
C-110 TO C-111	TYPICAL SECTION VIEWS

- GENERAL NOTES**
1. THE PURPOSE OF THIS PROJECT IS TO MAINTAIN NAVIGATION WITHIN THE GULF COVE COMMUNITY RESIDENTIAL CANAL IN PORT CHARLOTTE, FLORIDA.
 2. CONTRACTOR IS REQUIRED TO FOLLOW THE TECHNICAL SPECIFICATION, DRAWINGS, AND SPECIAL PROVISION PROVIDED.
 3. DOCUMENT ORIGINAL FULL SIZE: 11"X17".
 4. ELEVATIONS SHOWN WITHIN THIS PLAN SET ARE IN FEET, AND ARE REFERENCED TO MEAN LOW WATER.
 5. HORIZONTAL GRID COORDINATES ARE IN FEET, AND ARE REFERENCED TO THE FLORIDA STATE PLANE WEST COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83).
 6. INVESTIGATORY SURVEY PERFORMED BY OCEANSIDE SOLUTIONS ON OCTOBER 22 & 23, 2020. THIS SURVEY PROVIDES DATA FOR DEPTHS ALONG THE ENTIRETY OF EACH WATERWAY AND IS AVAILABLE AT THE CONTRACTOR'S REQUEST.
 7. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING STRUCTURES INCLUDING UNDERGROUND AND ABOVE GROUND UTILITIES. AN 811 UTILITY LINE LOCATION CALL SHALL BE CONDUCTED BY CONTRACTOR TO LOCATE ANY UTILITIES IN THE FACILITY.
 8. THIS PLAN SET REPRESENTS THE 90% DESIGN DRAWINGS. THESE DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING PURPOSES UNTIL SIGNED BY A LICENSED PROFESSIONAL ENGINEER



PROJECT LOCATION MAP

CLIENT

CHARLOTTE COUNTY
18500 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948

SURVEYOR

OCEANSIDE SOLUTIONS, LLC
1180 S. PATRICK DRIVE
SATELLITE BEACH, FL 32937
WWW.OCEANSIDESOLUTIONS.COM

PREPARED BY

ATKINS 4030 BOY SCOUT BOULEVARD SUITE 700
TAMPA, FL 33607
FBPR CERTIFICATE OF AUTHORIZATION NO. 24
LOCAL OFFICE:
100 PARAMOUNT DRIVE, SUITE. 207
SARASOTA, FL 34232
TEL: (941) 225-4826
FAX: (941) 371-7297
PROJECT NUMBER: 100072838

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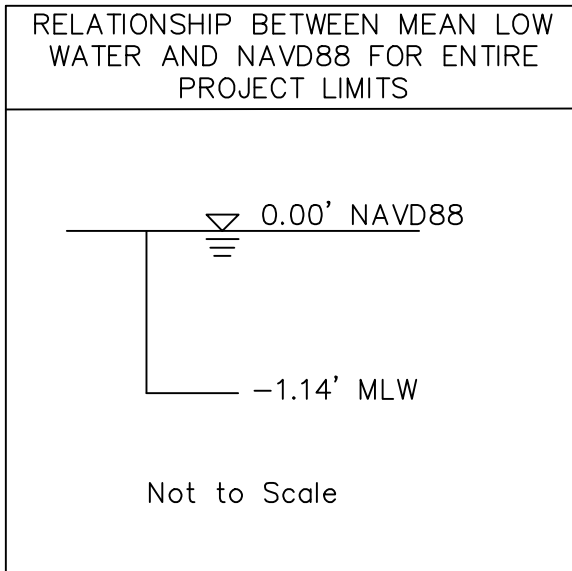
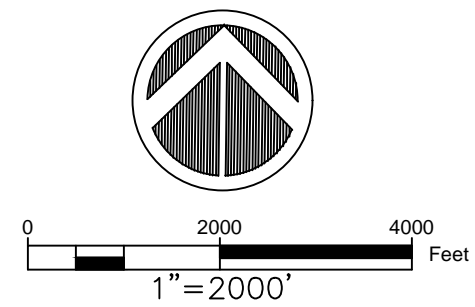
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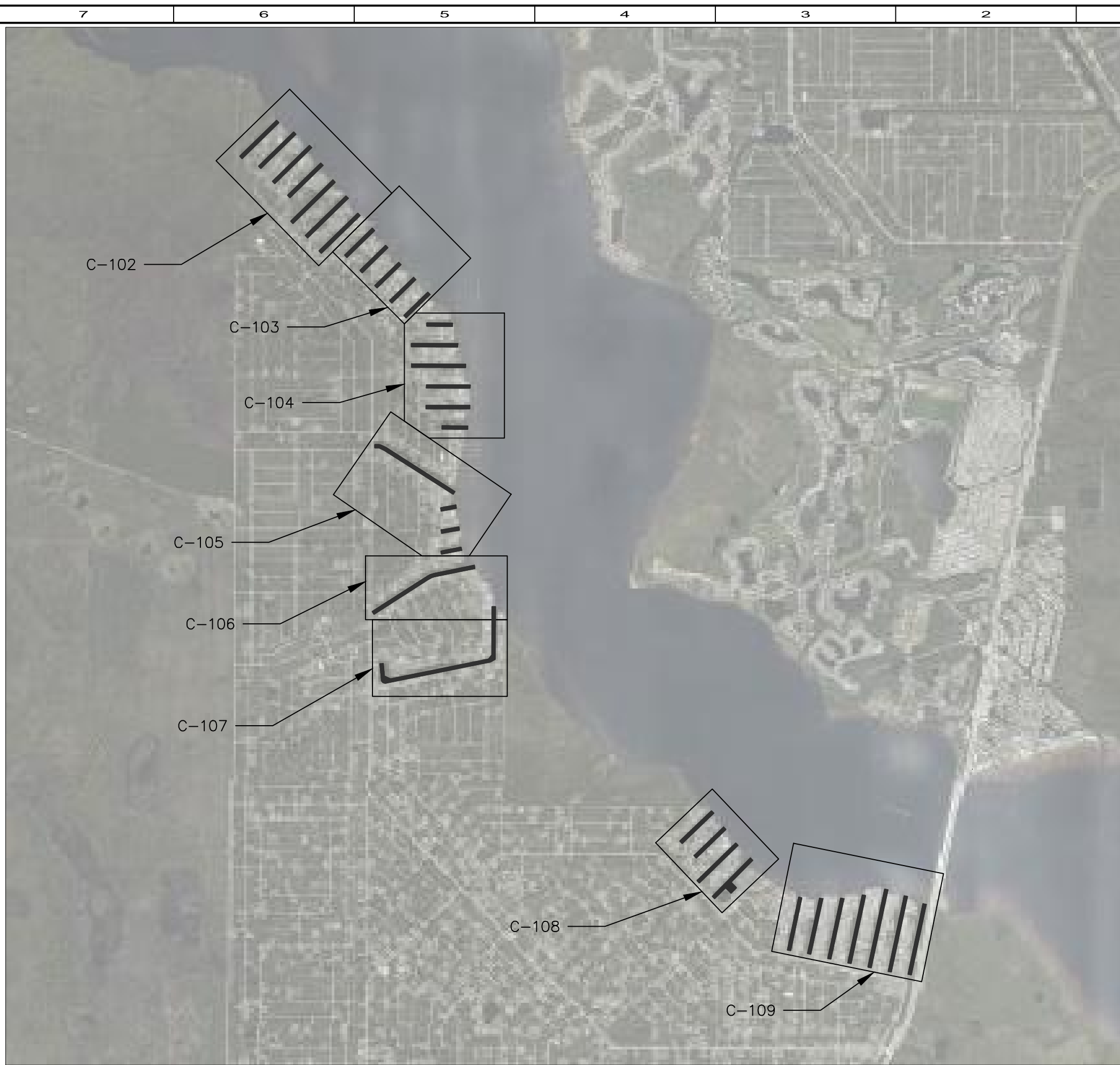
MAY 2021

NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

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Drawing Name: M:\ADMIN\Coastal_Engineering\Charlotte County\Gulf Cove Maintenance Dredge\Working\CAD (6-21)\Gulf Cove Design Plan 003.dwg
May 27, 2021 - 1:15pm

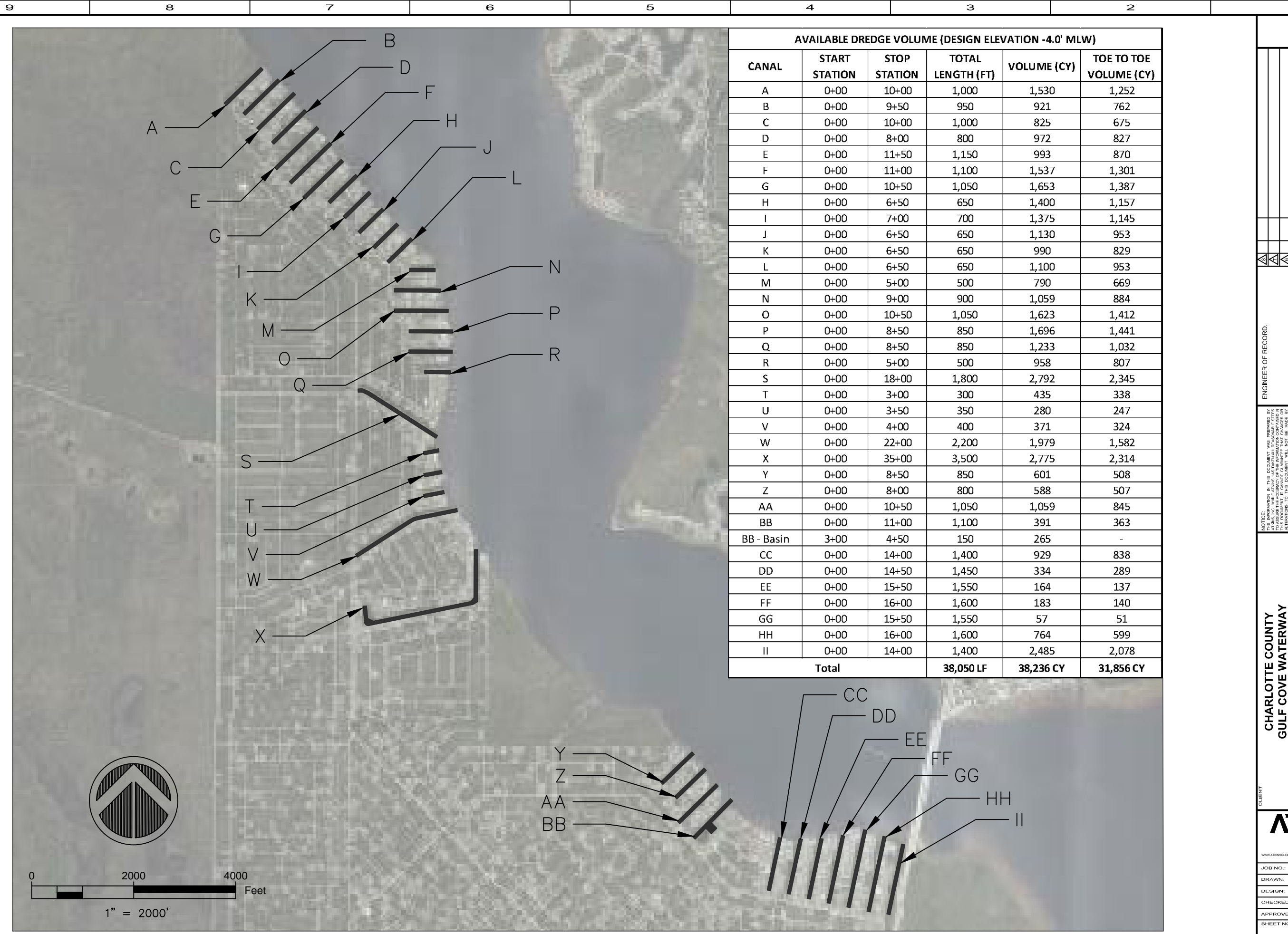


- NOTES:
1. INVESTIGATORY SURVEY PERFORMED BY OCEANSIDE SOLUTIONS ON OCTOBER 22 & 23, 2020.
 2. ELEVATIONS SHOWN ARE IN FEET, AND ARE REFERENCED TO MLW
 3. VERTICAL DATUM CONVERSION: 0 FEET NAVD88 = 1.14 FOOT MLW

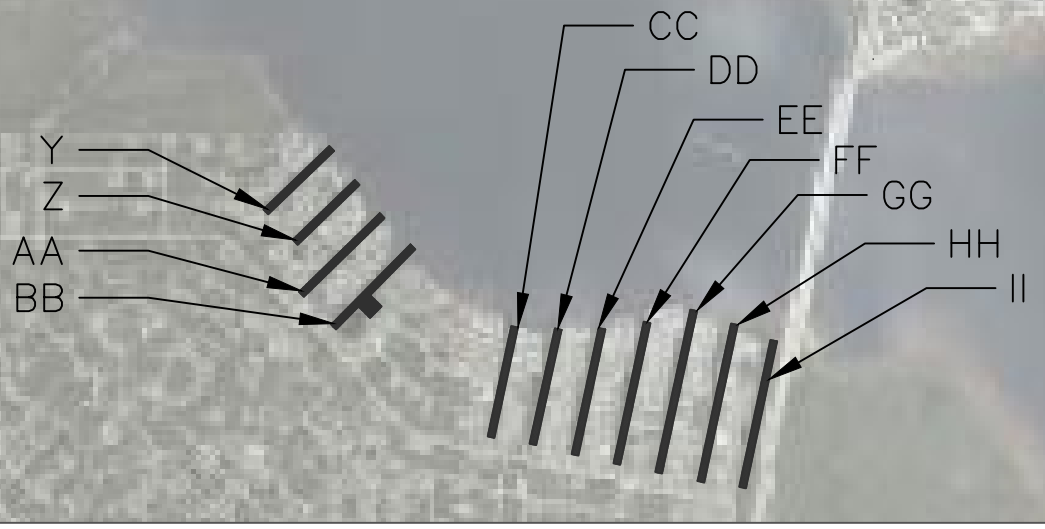


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CLIENT CHARLOTTE COUNTY GULF COVE WATERWAY		PROJECT GULF COVE WATERWAY MAINTENANCE DREDGE		TITLE PROJECT MAP SHEET			
ATKINS <small>WWW.ATKINSGLOBAL.COM</small>							
JOB NO.: 100972838 DRAWN: JLP DESIGN: JLP CHECKED: MBS APPROVED: JAB SHEET NO. C-100							

User Name: BART6907
 Drawing Name: M:\ADMIN\Casual_Engineering\Charlotte County\Gulf Cove Maintenance Dredging\Working Files\Drawing\CAD (6-21)\Gulf Cove Design Plan 003.dwg
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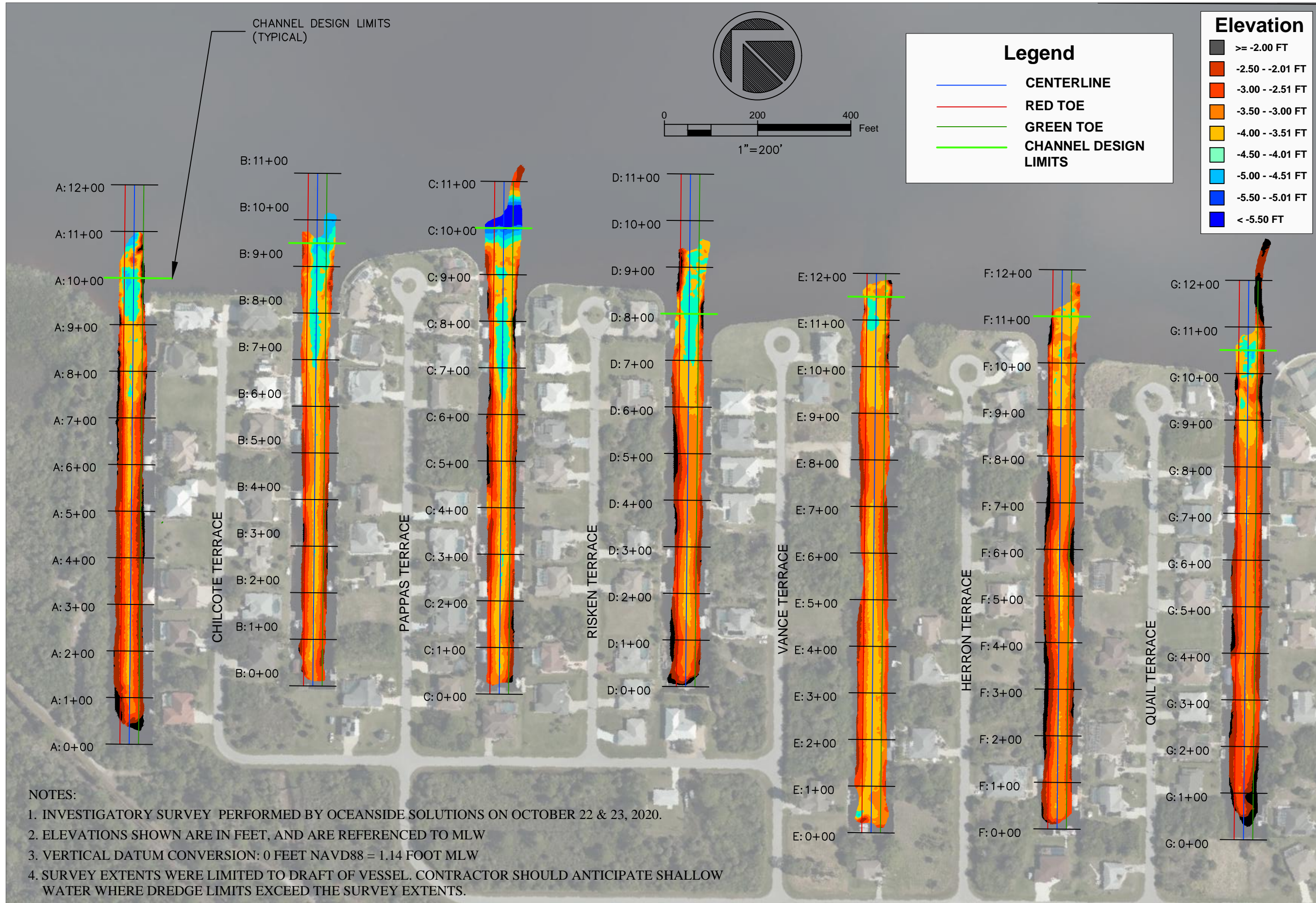


AVAILABLE DREDGE VOLUME (DESIGN ELEVATION -4.0' MLW)					
CANAL	START STATION	STOP STATION	TOTAL LENGTH (FT)	VOLUME (CY)	TOE TO TOE VOLUME (CY)
A	0+00	10+00	1,000	1,530	1,252
B	0+00	9+50	950	921	762
C	0+00	10+00	1,000	825	675
D	0+00	8+00	800	972	827
E	0+00	11+50	1,150	993	870
F	0+00	11+00	1,100	1,537	1,301
G	0+00	10+50	1,050	1,653	1,387
H	0+00	6+50	650	1,400	1,157
I	0+00	7+00	700	1,375	1,145
J	0+00	6+50	650	1,130	953
K	0+00	6+50	650	990	829
L	0+00	6+50	650	1,100	953
M	0+00	5+00	500	790	669
N	0+00	9+00	900	1,059	884
O	0+00	10+50	1,050	1,623	1,412
P	0+00	8+50	850	1,696	1,441
Q	0+00	8+50	850	1,233	1,032
R	0+00	5+00	500	958	807
S	0+00	18+00	1,800	2,792	2,345
T	0+00	3+00	300	435	338
U	0+00	3+50	350	280	247
V	0+00	4+00	400	371	324
W	0+00	22+00	2,200	1,979	1,582
X	0+00	35+00	3,500	2,775	2,314
Y	0+00	8+50	850	601	508
Z	0+00	8+00	800	588	507
AA	0+00	10+50	1,050	1,059	845
BB	0+00	11+00	1,100	391	363
BB - Basin	3+00	4+50	150	265	-
CC	0+00	14+00	1,400	929	838
DD	0+00	14+50	1,450	334	289
EE	0+00	15+50	1,550	164	137
FF	0+00	16+00	1,600	183	140
GG	0+00	15+50	1,550	57	51
HH	0+00	16+00	1,600	764	599
II	0+00	14+00	1,400	2,485	2,078
Total			38,050 LF	38,236 CY	31,856 CY



CLIENT	CHARLOTTE COUNTY GULF COVE WATERWAY	PROJECT	GULF COVE WATERWAY MAINTENANCE DREDGE
TITLE	PROJECT OVERVIEW - CANAL VOLUMES		
LOGO			
JOB NO.:	10072838		
DRAWN:	JLP		
DESIGN:	JLP		
CHECKED:	MBS		
APPROVED:	JAB		
SHEET NO.:	C-101		
ENGINEER OF RECORD:	<div style="border: 1px solid red; padding: 2px; display: inline-block;">NOT FOR CONSTRUCTION</div>		
DATE:	BY:	DATE:	DESCRIPTION:

User Name: BART6907
Drawing Name: M:\ADMIN\Casual_Engineering\Charlotte County\Gulf Cove Maintenance Dredge\Working Files\Drawing\CAD (6-21)\Gulf Cove Design Plan 003.dwg
May 27, 2021 - 1:15pm



Legend

- CENTERLINE
- RED TOE
- GREEN TOE
- CHANNEL DESIGN LIMITS

Elevation

Dark Grey	≥ -2.00 FT
Red	-2.50 - -2.01 FT
Orange	-3.00 - -2.51 FT
Yellow	-3.50 - -3.00 FT
Light Green	-4.00 - -3.51 FT
Blue	-4.50 - -4.01 FT
Dark Blue	-5.00 - -4.51 FT
Very Dark Blue	-5.50 - -5.01 FT
Black	< -5.50 FT

- NOTES:**
1. INVESTIGATORY SURVEY PERFORMED BY OCEANSIDE SOLUTIONS ON OCTOBER 22 & 23, 2020.
 2. ELEVATIONS SHOWN ARE IN FEET, AND ARE REFERENCED TO MLW
 3. VERTICAL DATUM CONVERSION: 0 FEET NAVD88 = 1.14 FOOT MLW
 4. SURVEY EXTENTS WERE LIMITED TO DRAFT OF VESSEL. CONTRACTOR SHOULD ANTICIPATE SHALLOW WATER WHERE DREDGE LIMITS EXCEED THE SURVEY EXTENTS.

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<p>MATCHLINE C-103</p>		
<p>CLIENT CHARLOTTE COUNTY GULF COVE WATERWAY</p>	<p>PROJECT GULF COVE WATERWAY MAINTENANCE DREDGE</p>	<p>TITLE ISOPACH MAP - EXISTING GROUND SURVEY</p>
<p>ATKINS</p> <p style="font-size: x-small;">100 PARADISE DRIVE, SUITE 200, SARASOTA, FL 34230 WWW.ATKINSGLOBAL.COM TEL: (941) 554-4000 FAX: (941) 554-7797</p>		<p>ORIGINAL ISSUED DATE:</p>
<p>JOB NO.: 100972838</p> <p>DRAWN: JLP</p> <p>DESIGN: JLP</p> <p>CHECKED: MBS</p> <p>APPROVED: JAB</p> <p>SHEET NO.</p>		<p>C-102</p>

NOTES:

1. INVESTIGATORY SURVEY PERFORMED BY OCEANSIDE SOLUTIONS ON OCTOBER 22 & 23, 2020.
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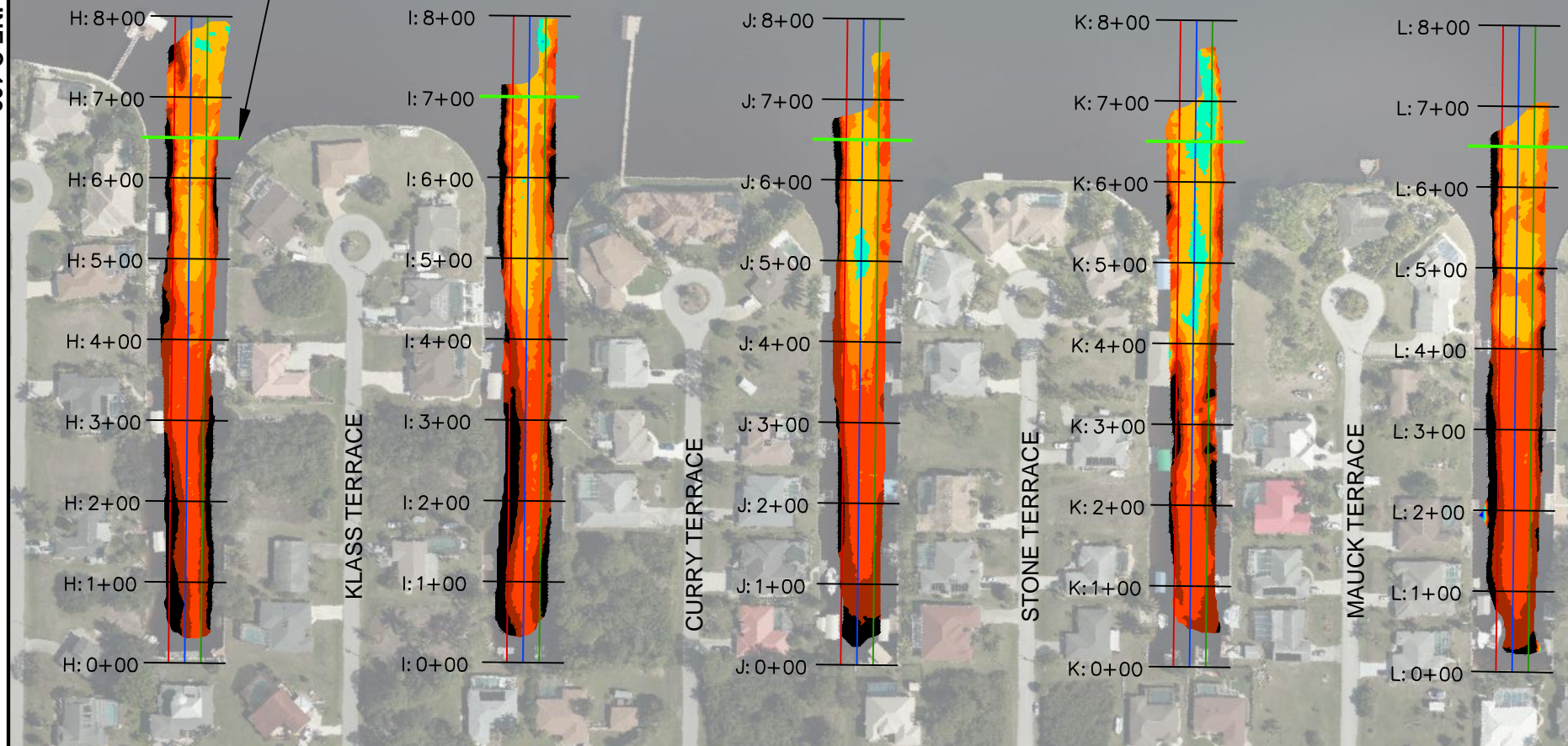
Legend

- CENTERLINE
- RED TOE
- GREEN TOE
- CHANNEL DESIGN LIMITS

Elevation

- ≥ -2.00 FT
- 2.50 - -2.01 FT
- 3.00 - -2.51 FT
- 3.50 - -3.00 FT
- 4.00 - -3.51 FT
- 4.50 - -4.01 FT
- 5.00 - -4.51 FT
- 5.50 - -5.01 FT
- < -5.50 FT

MATCHLINE C-102







MATCHLINE C-104

<p>CLIENT</p> <p>CHARLOTTE COUNTY GULF COVE WATERWAY</p>		<p>PROJECT</p> <p>GULF COVE WATERWAY MAINTENANCE DREDGE</p>	<p>TITLE</p> <p>ISOPACH MAP - EXISTING GROUND SURVEY</p>
<p>ATKINS</p> <p>100 PARAMOUNT DRIVE, SUITE 200 SARASOTA, FL 34230 TEL: (941) 552-4600 FAX: (941) 551-7297</p>		<p>JOB NO.: 100972838</p> <p>DRAWN: JLP</p> <p>DESIGN: JLP</p> <p>CHECKED: MBS</p> <p>APPROVED: JAB</p> <p>SHEET NO.: C-103</p>	
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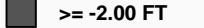

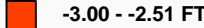
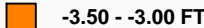
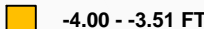
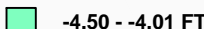

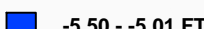

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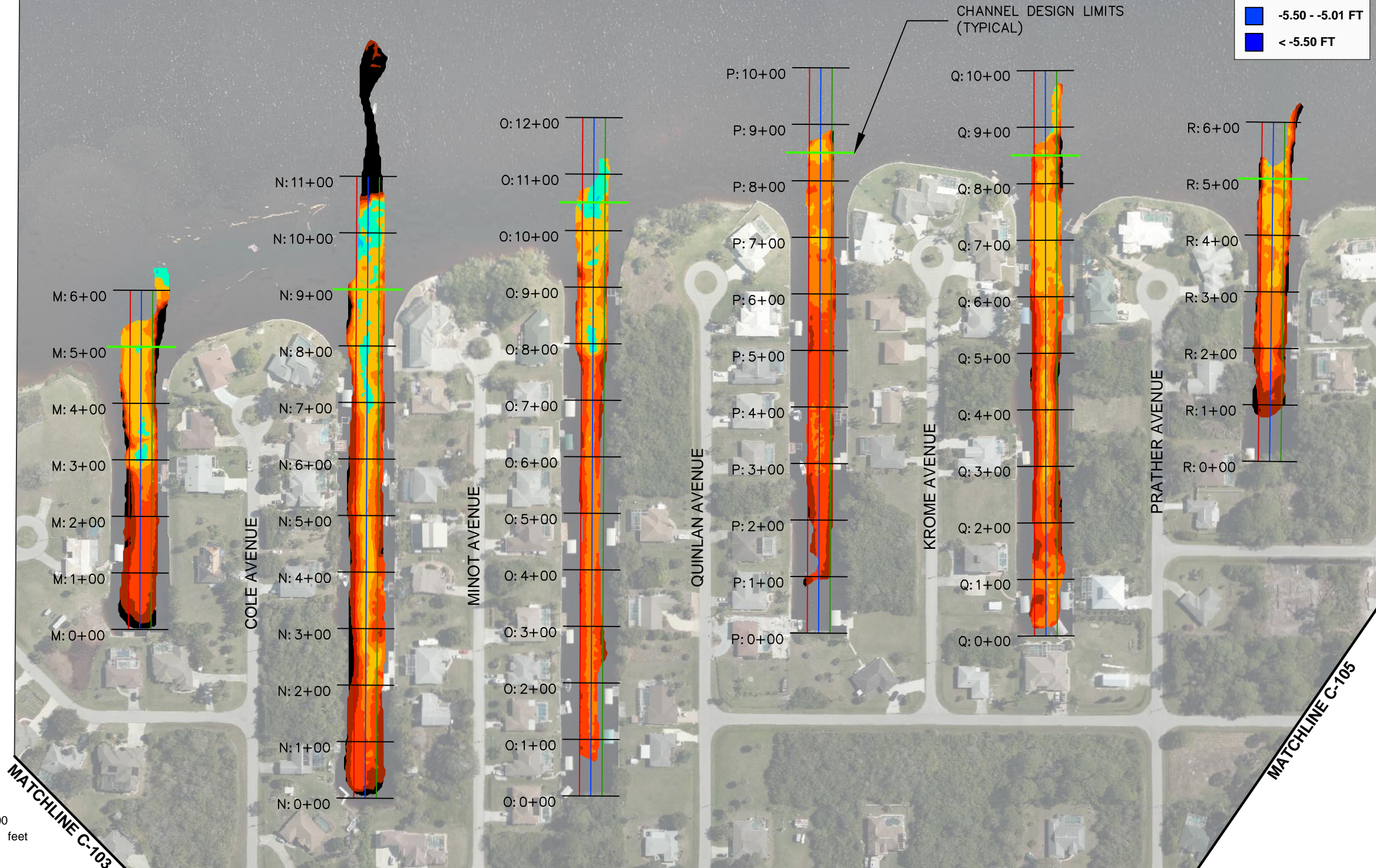
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Legend

-  CENTERLINE
-  RED TOE
-  GREEN TOE
-  CHANNEL DESIGN LIMITS

Elevation

-  ≥ -2.00 FT
-  -2.50 - -2.01 FT
-  -3.00 - -2.51 FT
-  -3.50 - -3.00 FT
-  -4.00 - -3.51 FT
-  -4.50 - -4.01 FT
-  -5.00 - -4.51 FT
-  -5.50 - -5.01 FT
-  < -5.50 FT



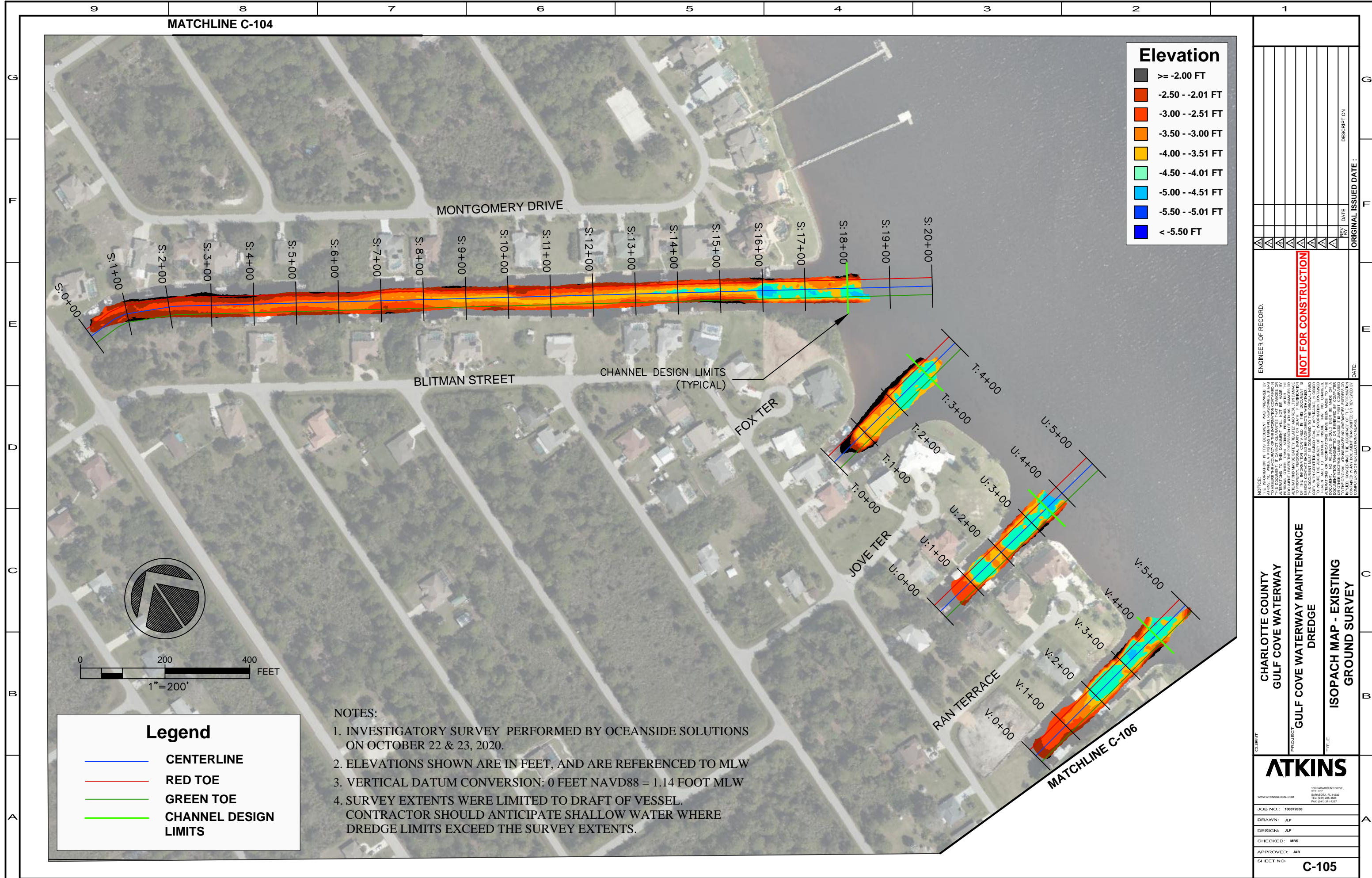
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CLIENT: CHARLOTTE COUNTY
 GULF COVE WATERWAY
 PROJECT: GULF COVE WATERWAY MAINTENANCE DREDGE
 TITLE: ISOPACH MAP - EXISTING GROUND SURVEY

ATKINS
 100 PARAMOUNT DRIVE, SUITE 200, SARASOTA, FL 34230
 WWW.ATKINSGLOBAL.COM
 JOB NO.: 100972838
 DRAWN: JLP
 DESIGN: JLP
 CHECKED: MBS
 APPROVED: JAB
 SHEET NO. C-104

User Name: BART6907
 Drawing Name: M:\ADMIN\Casual Engineering\Charlotte County\Gulf Cove Maintenance Dredge\Working Files\Drawings\CAD (6-21)\Gulf Cove Design Plan 003.dwg
 May 27, 2021 - 1:16pm



Legend

- CENTERLINE
- RED TOE
- GREEN TOE
- CHANNEL DESIGN LIMITS

NOTES:

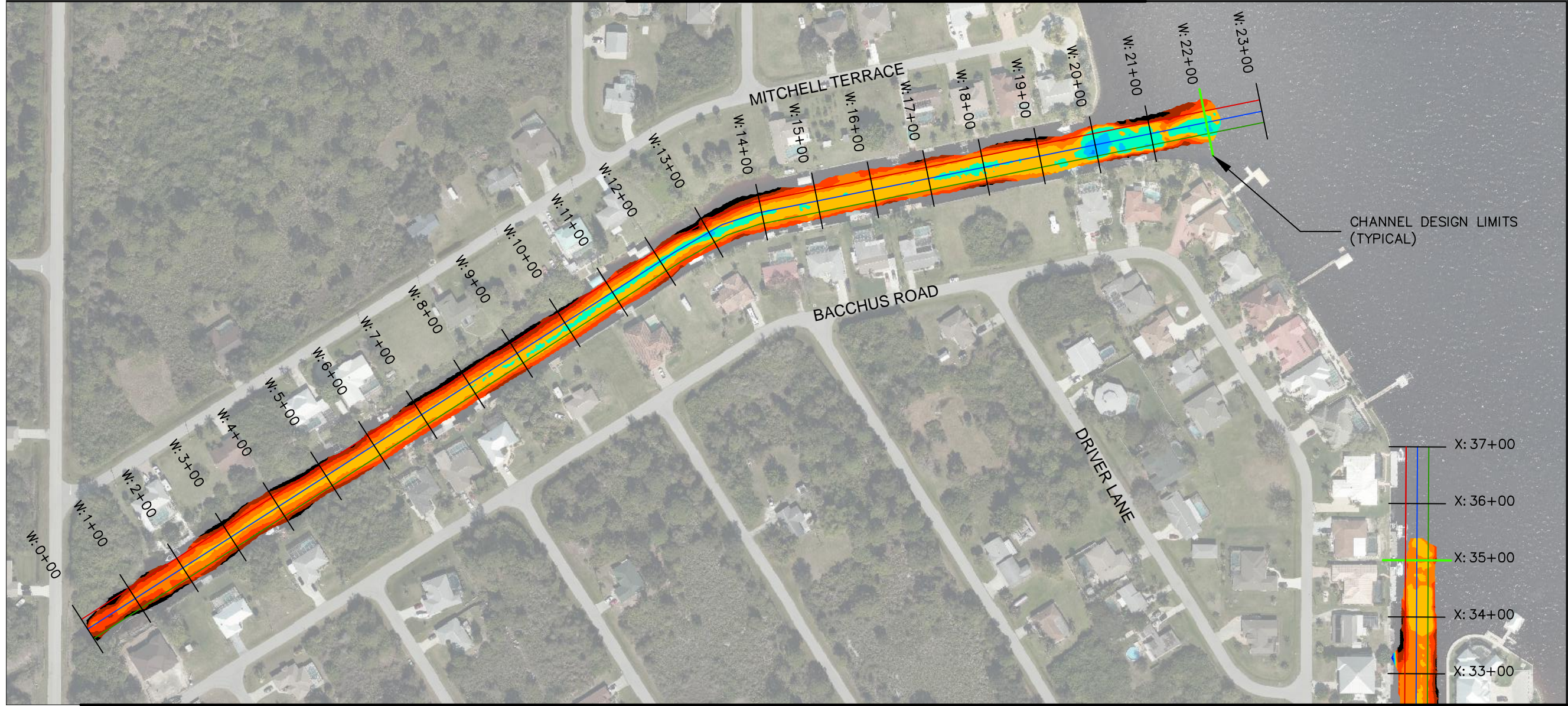
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3. VERTICAL DATUM CONVERSION: 0 FEET NAVD88 = 1.14 FOOT MLW
4. SURVEY EXTENTS WERE LIMITED TO DRAFT OF VESSEL. CONTRACTOR SHOULD ANTICIPATE SHALLOW WATER WHERE DREDGE LIMITS EXCEED THE SURVEY EXTENTS.

Elevation

- ≥ -2.00 FT
- 2.50 - -2.01 FT
- 3.00 - -2.51 FT
- 3.50 - -3.00 FT
- 4.00 - -3.51 FT
- 4.50 - -4.01 FT
- 5.00 - -4.51 FT
- 5.50 - -5.01 FT
- < -5.50 FT

NOT FOR CONSTRUCTION			
ENGINEER OF RECORD:	DATE:	REV:	DESCRIPTION
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ATKINS			
990 PARAMOUNT DRIVE SUITE 200 SARASOTA, FL 34230 TEL: (941) 554-6600 FAX: (941) 554-7597			
JOB NO.: 100072838			
DRAWN: JLP			
DESIGN: JLP			
CHECKED: MBS			
APPROVED: JAB			
SHEET NO. C-105			

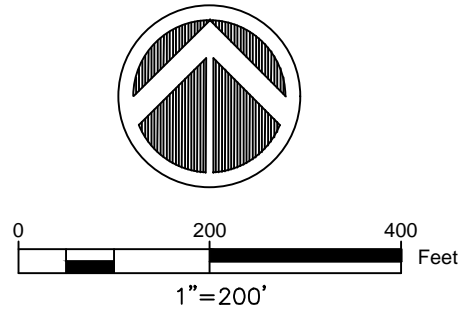
User Name: BART6907
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May 27, 2021 - 1:16pm



MATCHLINE C-105

MATCHLINE C-107

- NOTES:
1. INVESTIGATORY SURVEY PERFORMED BY OCEANSIDE SOLUTIONS ON OCTOBER 22 & 23, 2020.
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Legend	
	CENTERLINE
	RED TOE
	GREEN TOE
	CHANNEL DESIGN LIMITS

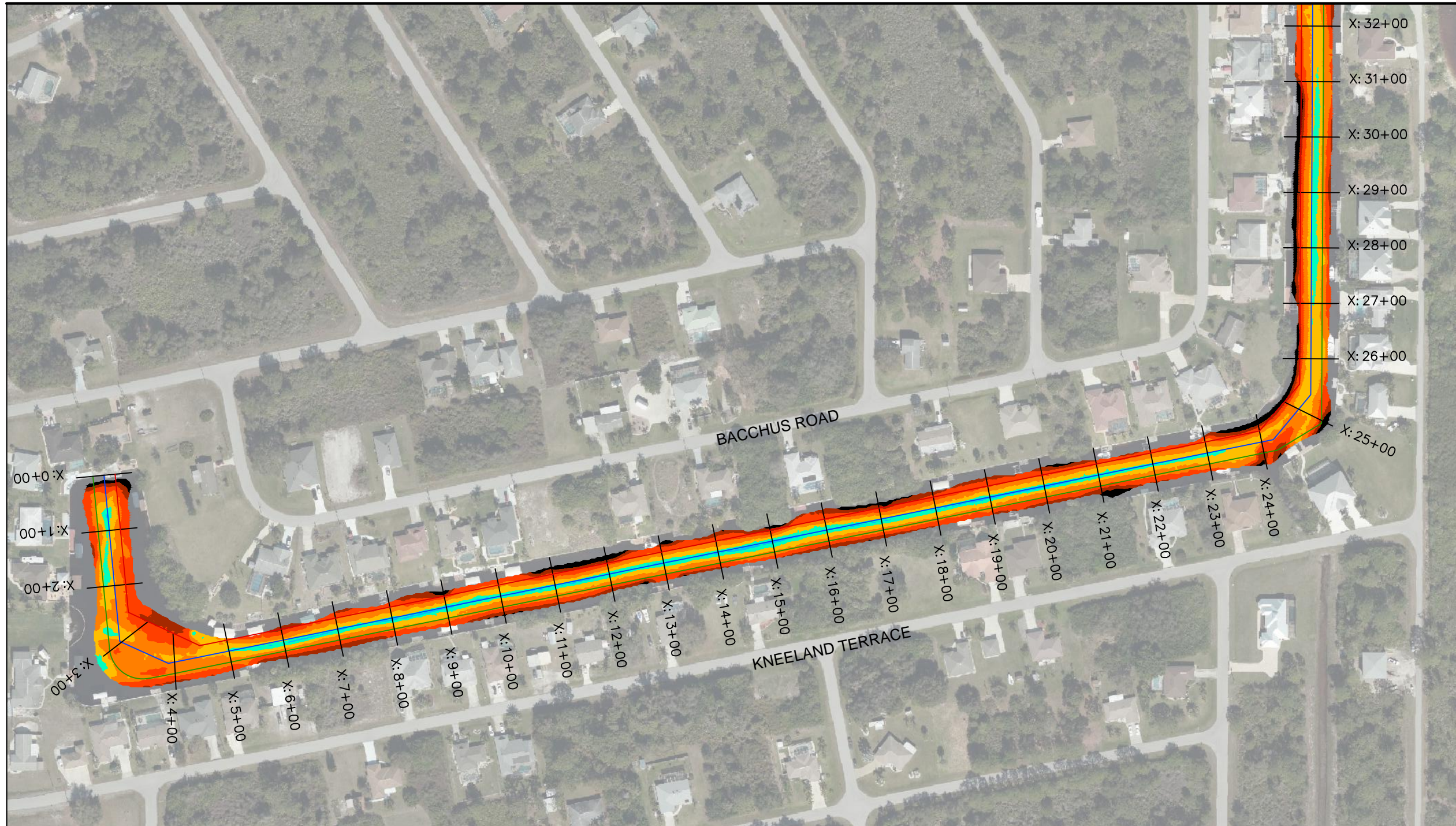
Elevation	
	>= -2.00 FT
	-2.50 - -2.01 FT
	-3.00 - -2.51 FT
	-3.50 - -3.00 FT
	-4.00 - -3.51 FT
	-4.50 - -4.01 FT
	-5.00 - -4.51 FT
	-5.50 - -5.01 FT
	< -5.50 FT

ATKINS	
<small>100 PARAMOUNT DRIVE, SUITE 200, SARASOTA, FL 34230, TEL: (941) 554-4600, FAX: (941) 551-7397</small>	
<small>JOB NO.: 100972838</small>	<small>DESIGNED: JLP</small>
<small>DRAWN: JLP</small>	<small>CHECKED: MBS</small>
<small>APPROVED: JAB</small>	<small>SHEET NO. C-106</small>

CLIENT	PROJECT
CHARLOTTE COUNTY	GULF COVE WATERWAY MAINTENANCE
GULF COVE WATERWAY	DREDGE
TITLE	ISOPACH MAP - EXISTING GROUND SURVEY

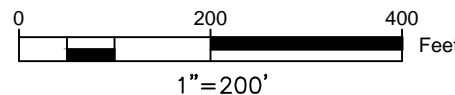
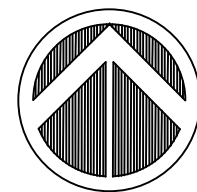
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NOT FOR CONSTRUCTION	<small>REVISIONS</small>
<small>REVISIONS</small>	<small>DESCRIPTION</small>
<small>NO.</small>	<small>DATE</small>
<small>1</small>	<small> </small>
<small>2</small>	<small> </small>
<small>3</small>	<small> </small>
<small>4</small>	<small> </small>
<small>5</small>	<small> </small>
<small>6</small>	<small> </small>
<small>7</small>	<small> </small>
<small>8</small>	<small> </small>
<small>9</small>	<small> </small>
<small>10</small>	<small> </small>

MATCHLINE C-106



NOTES:

1. INVESTIGATORY SURVEY PERFORMED BY OCEANSIDE SOLUTIONS ON OCTOBER 22 & 23, 2020.
2. ELEVATIONS SHOWN ARE IN FEET, AND ARE REFERENCED TO MLW
3. VERTICAL DATUM CONVERSION: 0 FEET NAVD88 = 1.14 FOOT MLW
4. SURVEY EXTENTS WERE LIMITED TO DRAFT OF VESSEL. CONTRACTOR SHOULD ANTICIPATE SHALLOW WATER WHERE DREDGE LIMITS EXCEED THE SURVEY EXTENTS.



Legend

- CENTERLINE
- RED TOE
- GREEN TOE
- - - CHANNEL DESIGN LIMITS

Elevation

- >= -2.00 FT
- 2.50 - -2.01 FT
- 3.00 - -2.51 FT
- 3.50 - -3.00 FT
- 4.00 - -3.51 FT
- 4.50 - -4.01 FT
- 5.00 - -4.51 FT
- 5.50 - -5.01 FT
- < -5.50 FT

REV	DATE	DESCRIPTION

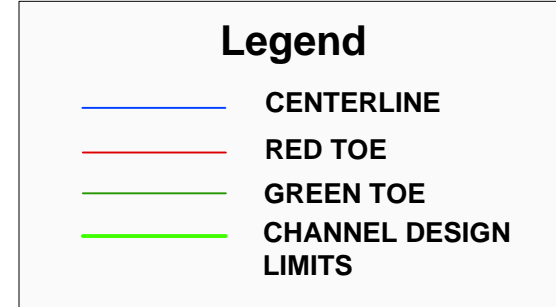
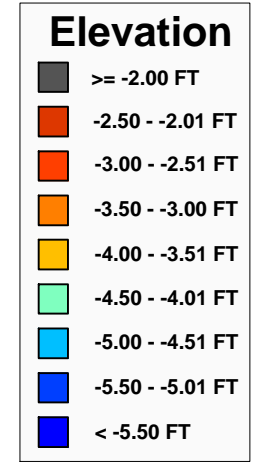
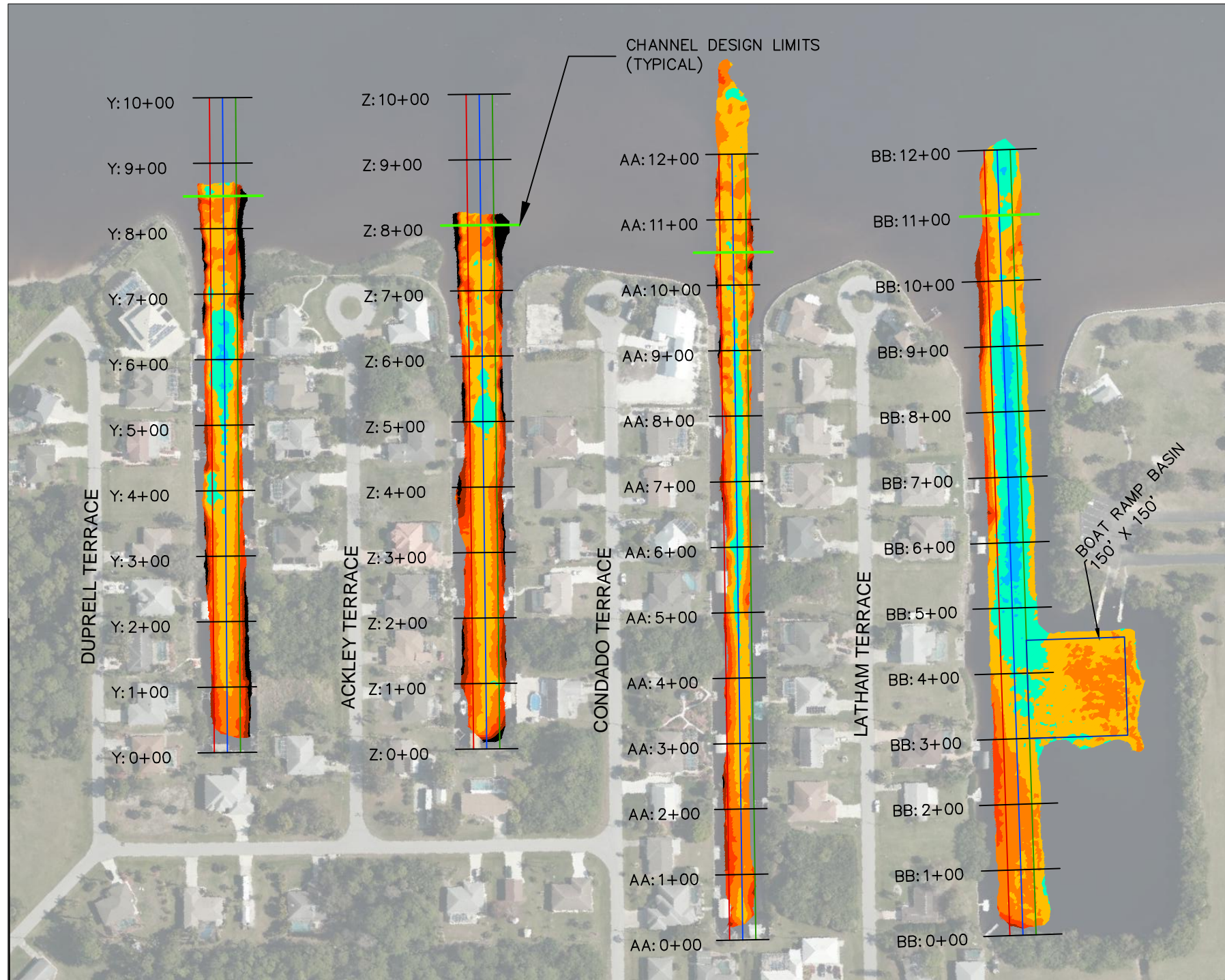
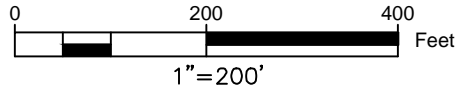
ENGINEER OF RECORD:
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CLIENT: CHARLOTTE COUNTY
 GULF COVE WATERWAY
 PROJECT: GULF COVE WATERWAY MAINTENANCE DREDGE
 TITLE: ISOPACH MAP - EXISTING GROUND SURVEY

ATKINS
 100 PARAMOUNT DRIVE, SUITE 200
 SARASOTA, FL 34230
 TEL: (941) 552-4600 FAX: (941) 552-7297

JOB NO.: 100972838
 DRAWN: JLP
 DESIGN: JLP
 CHECKED: MBS
 APPROVED: JAB
 SHEET NO. **C-107**



- NOTES:
1. INVESTIGATORY SURVEY PERFORMED BY OCEANSIDE SOLUTIONS ON OCTOBER 22 & 23, 2020.
 2. ELEVATIONS SHOWN ARE IN FEET, AND ARE REFERENCED TO MLW
 3. VERTICAL DATUM CONVERSION: 0 FEET NAVD88 = 1.14 FOOT MLW
 4. SURVEY EXTENTS WERE LIMITED TO DRAFT OF VESSEL. CONTRACTOR SHOULD ANTICIPATE SHALLOW WATER WHERE DREDGE LIMITS EXCEED THE SURVEY EXTENTS.

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CLIENT CHARLOTTE COUNTY GULF COVE WATERWAY	PROJECT GULF COVE WATERWAY MAINTENANCE DREDGE	TITLE ISOPACH MAP - EXISTING GROUND SURVEY
ATKINS <small>100 PARAMOUNT DRIVE, SUITE 200, SARASOTA, FL 34232, TEL: (941) 552-4000, FAX: (941) 557-7297</small>		JOB NO.: 100972838 DRAWN: JLP DESIGN: JLP CHECKED: MBS APPROVED: JAB SHEET NO. C-108

User Name: BART6907
 Drawing Name: M:\ADMIN\Casual_Engineering\Charlotte County\Gulf Cove Maintenance Dredge\Working\CAD (6-21)\Gulf Cove Design Plan 003.dwg
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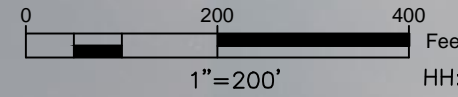
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Drawing Name: M:\ADMIN\Casual_Engineering\Charlotte County\Gulf Cove Maintenance Dredging\Working Files\Drawing\CAD (6-21)\Gulf Cove Design Plan 003.dwg
May 27, 2021 - 1:16pm

Legend

- CENTERLINE
- RED TOE
- GREEN TOE
- CHANNEL DESIGN LIMITS

NOTES:

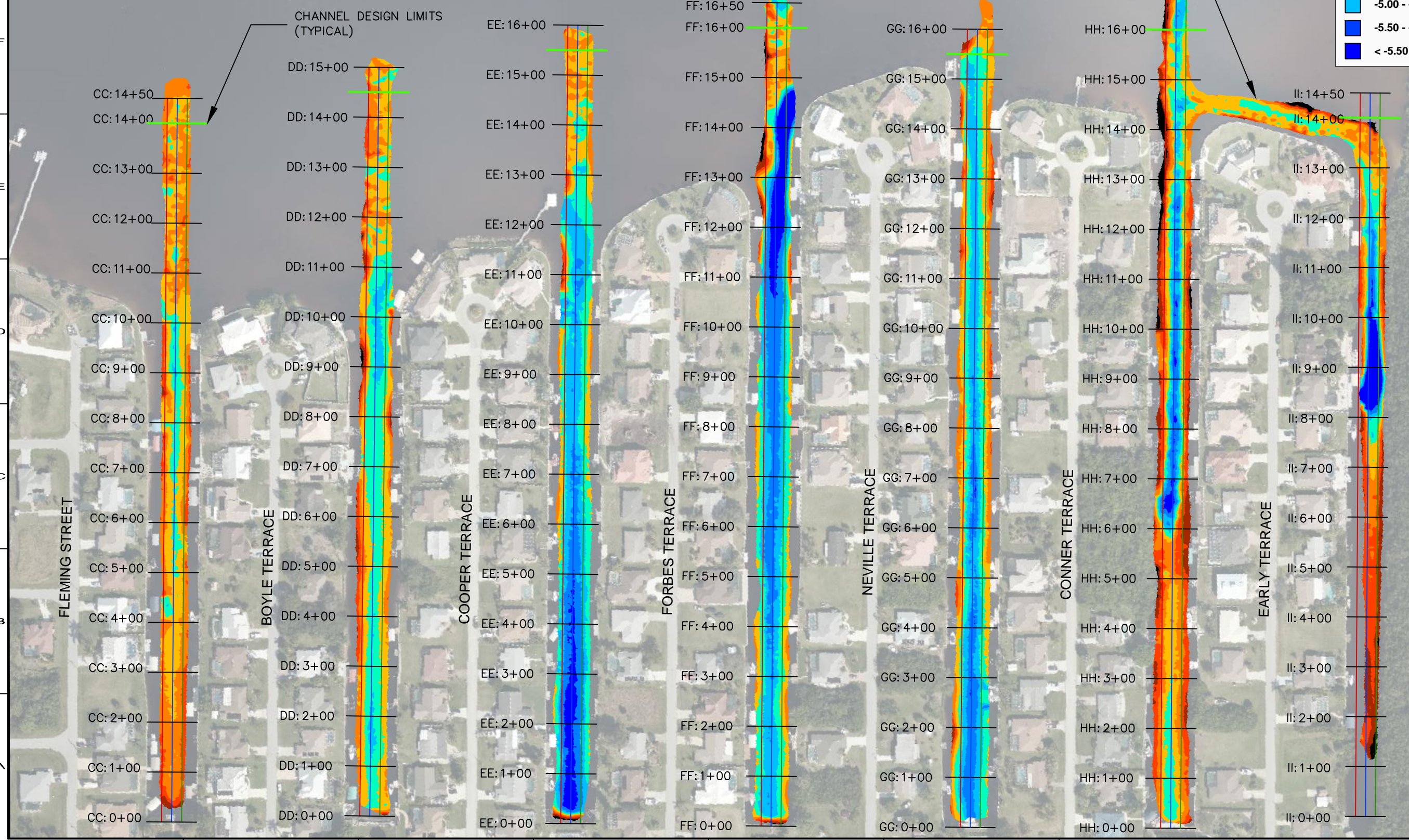
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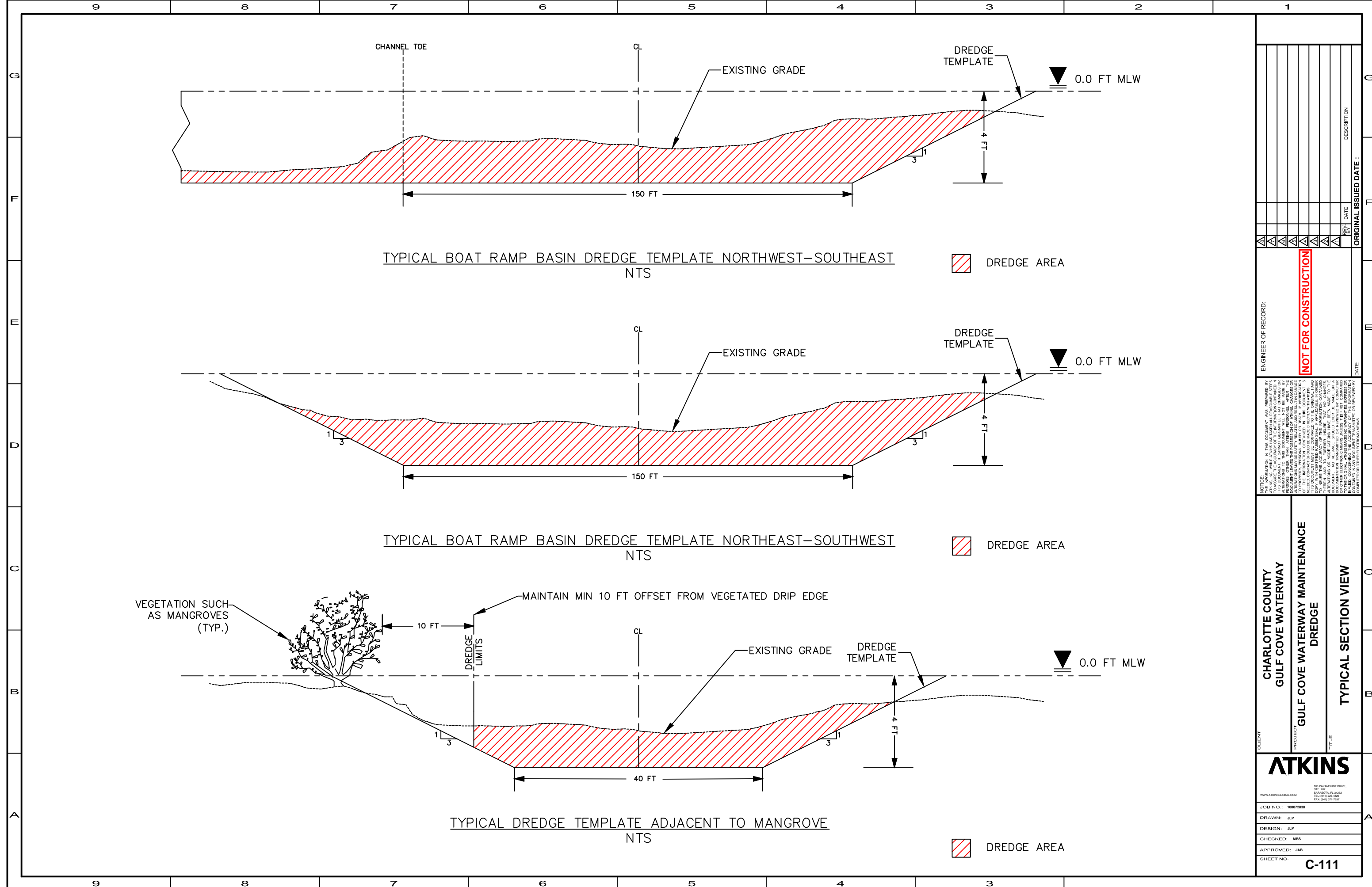
Elevation

>= -2.00 FT
-2.50 - -2.01 FT
-3.00 - -2.51 FT
-3.50 - -3.00 FT
-4.00 - -3.51 FT
-4.50 - -4.01 FT
-5.00 - -4.51 FT
-5.50 - -5.01 FT
< -5.50 FT

NO DREDGING WITHIN THE ACCESS CHANNEL OF CANAL HH AND II. NAVIGATION PURPOSES ONLY



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CLIENT	PROJECT			TITLE			
CHARLOTTE COUNTY GULF COVE WATERWAY	GULF COVE WATERWAY MAINTENANCE DREDGE			ISOPACH MAP - EXISTING GROUND SURVEY			
ATKINS							
100 PARAMOUNT DRIVE, SUITE 200, SARASOTA, FL 34232 WWW.ATKINSGLOBAL.COM TEL: (941) 554-4600 FAX: (941) 554-7797							
JOB NO.: 100072838		DRAWN: JLP		DESIGN: JLP		CHECKED: MBS	
APPROVED: JAB		SHEET NO. C-109					



BY	DATE	DESCRIPTION

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CLIENT
CHARLOTTE COUNTY
GULF COVE WATERWAY

PROJECT
GULF COVE WATERWAY MAINTENANCE DREDGE

TITLE
TYPICAL SECTION VIEW

ATKINS

100 PARMAHUNT DRIVE,
SUITE 200
SARASOTA, FL 34230
TEL: (941) 551-8600
FAX: (941) 551-7797

JOB NO.: 10072838

DRAWN: JLP

DESIGN: JLP

CHECKED: MBS

APPROVED: JAB

SHEET NO.
C-111