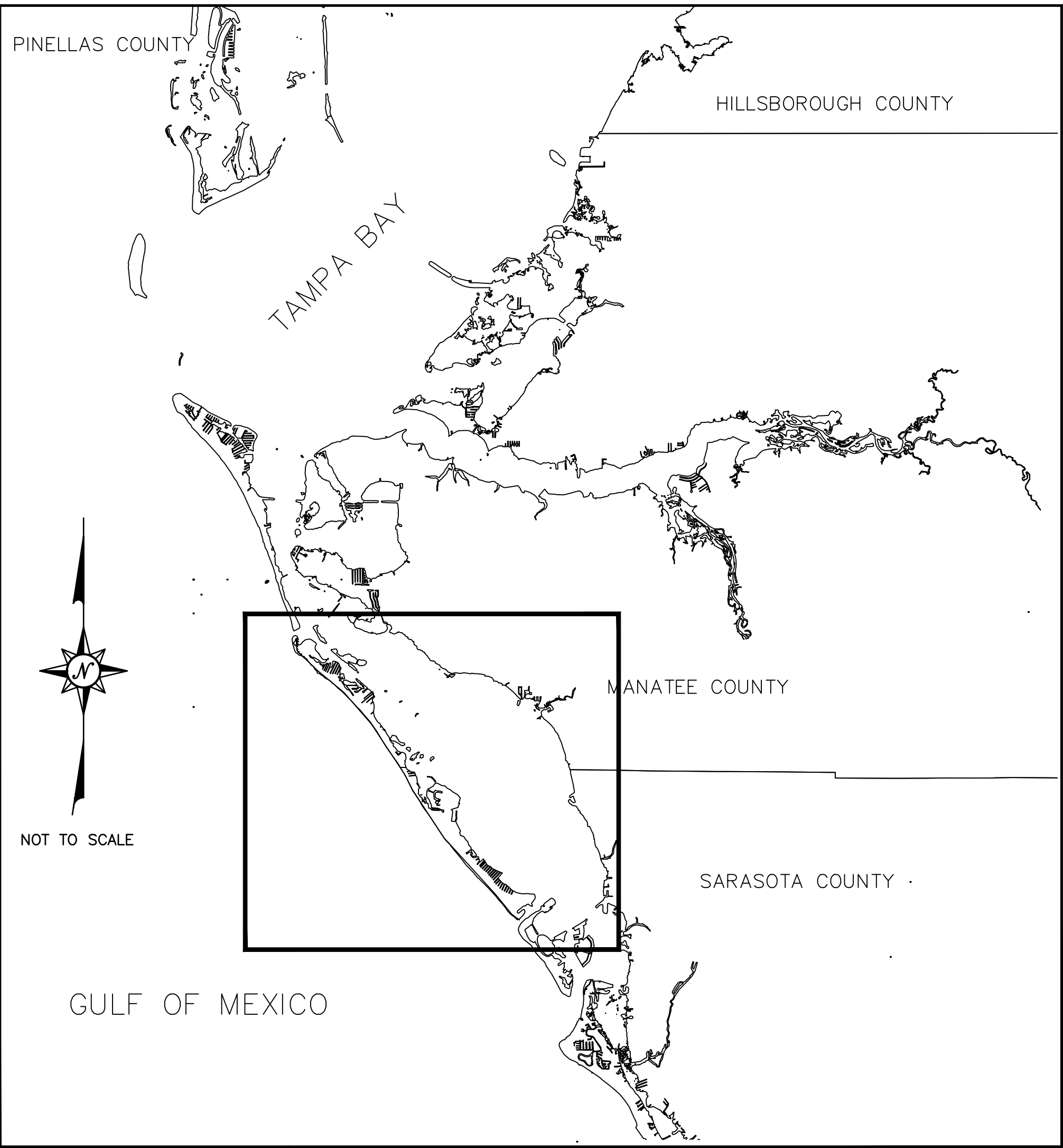


FLORIDA WEST COAST MAP



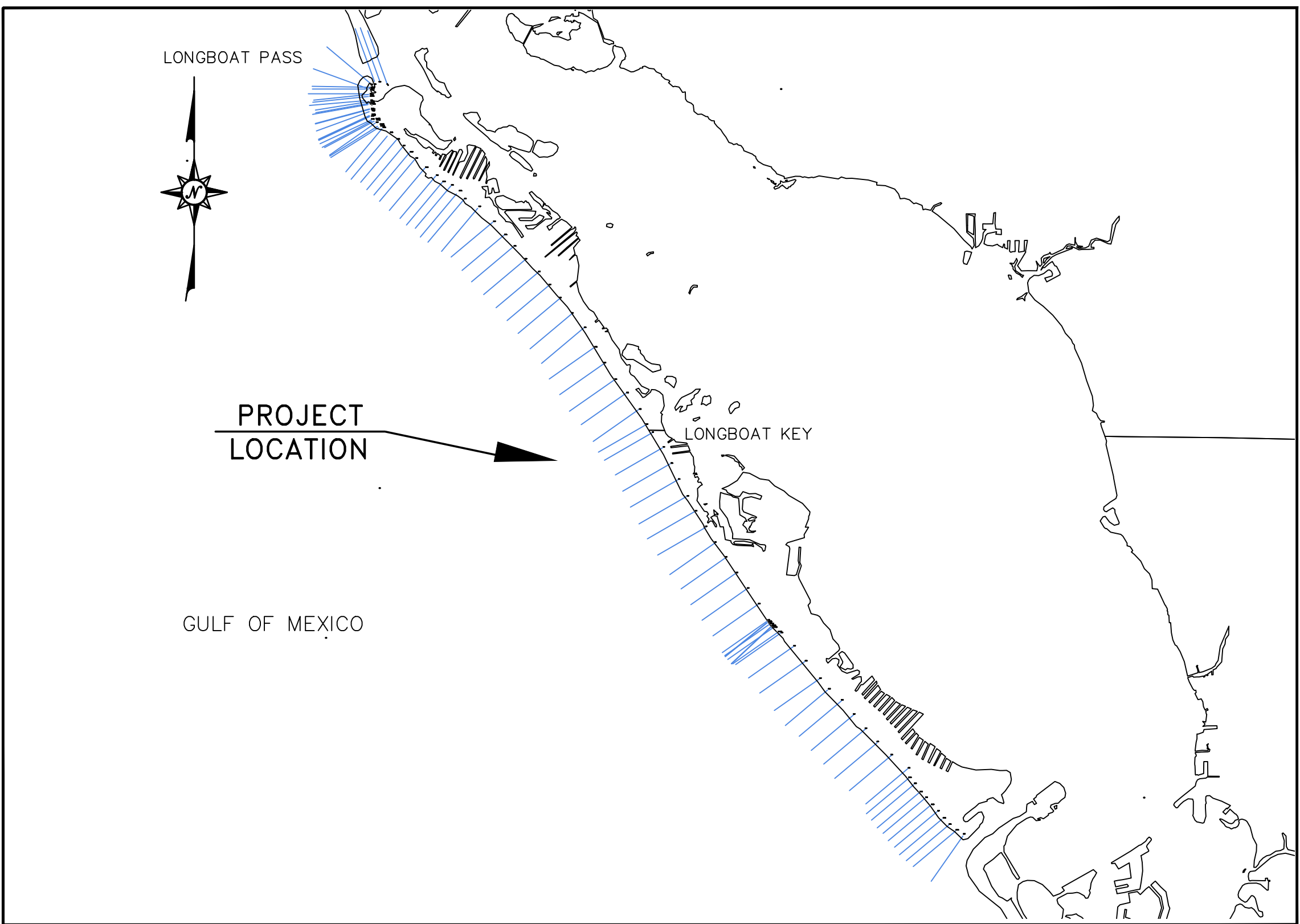
PRE-CONSTRUCTION SURVEY OF
R-MONUMENTS

FOR

BEACH NOURISHMENT & NORTH END
STRUCTURAL STABILIZATION PROJECT
*TOWN OF LONGBOAT KEY, FL
SARASOTA COUNTY & MANATEE COUNTY, FL*

VICINITY MAP

NOT TO SCALE



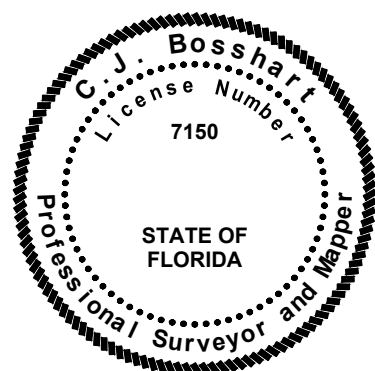
SHEET INDEX

- 1 COVER SHEET / VICINITY MAP
- 2 SURVEYOR REPORT / LEGEND / ABBREVIATIONS
- 3 SHEET PLAN
- 4 - 12 PLAN VIEW OF R-MONUMENTS

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Florida Registered Professional Surveyor and Mapper
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Florida Certificate of Authorization No. 7917
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Phone: (813)549-3740

 **McKIM&CREED**

DATE



McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

PRE-CONSTRUCTION SURVEY
OF
R-MONUMENTS
BEACH NOURISHMENT PROJECT
COVER SHEET

LONGBOAT KEY, MANATEE COUNTY AND SARASOTA COUNTY, FLORIDA
30 MARCH 2021

JOB NUMBER: 02174-0053
SCALE: 1"=200'
CAD NUMBER: VH-021740053_R-MON_PLAN VIEW
PLS: CJB
PARTY CHIEF: JTL
CAD TECH: GDO
FIELD BOOK/PAGE: FB/PG
DRAWING NUMBER: DWG
SHEET 1 OF 12

SURVEYOR REPORT:

1. THE PURPOSE OF THIS SURVEY WAS TO PERFORM A PRE-CONSTRUCTION SURVEY OF THE R-MONUMENT PROFILE LINES LOCATED IN LONGBOAT KEY (SARASOTA AND MANATEE COUNTIES) AS PART OF THE BEACH NOURISHMENT & NORTH END STRUCTURAL STABILIZATION PROJECT.
2. THE BOUNDARY LINES SHOWN HEREON ARE APPROXIMATED FROM CURSORY RESEARCH AND FIELDWORK, AND BY NO MEANS REPRESENT AN OFFICIAL BOUNDARY DETERMINATION. THIS IS NOT A BOUNDARY SURVEY.
3. THE PARCEL DATA REPRESENTED BY THE GREY DASHED LINES AND INCLUDED HEREIN WERE PROVIDED BY MANATEE COUNTY AND SARASOTA COUNTY GIS OPEN DATA AND DOWNLOADED ON FEBRUARY 24 2021. THE SURVEYOR MAKES NO CLAIM TO ACCURACY AND IT SHOULD NOT BE UTILIZED FOR GEOSPATIAL MEASUREMENT.
4. THE COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83), AS ESTABLISHED BY USING THE CONTROL MONUMENTS PUBLISHED ON THE BEACH NOURISHMENT & NORTH END STRUCTURAL STABILIZATION PROJECT CONSTRUCTION PLANS.
5. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88), AS ESTABLISHED BY REAL TIME KINEMATIC (RTK) OBSERVATIONS USING THE FLORIDA PERMANENT REFERENCE NETWORK (FPRN).
6. SOUNDINGS WERE ACQUIRED USING ODOM CVM SINGLE BEAM SONAR 200 kHz AND SBG EKINOX2 INERTIAL NAVIGATION AND SURVEY WAS PERFORMED WITH MCKIM & CREED SURVEY VESSEL "SV SOUNDS DEEP". HYPACK SOFTWARE WAS USED FOR DATA COLLECTION AND PROCESSING.
7. TOPOGRAPHIC AND WADE DATA WERE COLLECTED USING TRIMBLE R8 AND R10 GPS.
8. FIELD DATA WAS COLLECTED BETWEEN MARCH 2 AND MARCH 30, 2021
9. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.
10. THIS SURVEY IN GRAPHIC FORM IS ACCOMPANIED BY AN ELECTRONIC ZIPPED DIRECTORY TITLED R-MONUMENTS_PRECON.ZIP DATED APRIL 2 2021. THIS SURVEY IS NEITHER WHOLE NOR COMPLETE WITHOUT BOTH THE ELECTRONICALLY SIGNED SURVEY AND ACCOMPANYING ZIPPED DIRECTORY.
11. ADDITIONS OR DELETIONS TO SURVEY OR REPORTS BY OTHER THAN MCKIM & CREED IS PROHIBITED WITHOUT WRITTEN CONSENT.
12. FEATURES SHOWN BY SYMBOL AS INDICATED IN THE LEGEND ARE NOT TO SCALE.
13. DIMENSIONS ARE SHOWN IN UNITED STATES STANDARD SURVEY FEET AND DECIMALS THEREOF. THIS DRAWING IS IN GRID.
14. THIS SURVEY MEETS THE STANDARDS OF PRACTICE AS SET FORTH IN CHAPTER 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE AND THOSE ESTABLISHED IN THE DIVISION OF WATER RESOURCE MANAGEMENT - DEPARTMENT OF ENVIRONMENTAL PROTECTION REPORT ENTITLED "MONITORING STANDARDS FOR BEACH AND EROSION CONTROL PROJECTS" DATED OCTOBER 2014.
15. THIS SURVEY HAS BEEN ELECTRONICALLY SIGNED AND SEALED PURSUANT TO RULE 5J-17.062, FLORIDA ADMINISTRATIVE CODE. PRINTED COPIES ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPY.
16. THE HYDROGRAPHIC DATA DEPICTED ON THIS MAP WAS ACQUIRED USING MINIMUM PERFORMANCE STANDARD IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS MANUAL EM 1110-2-1003.
17. THE LAST FIELD DATE OF THIS SURVEY IS MARCH 30, 2021.
18. THIS SURVEY IN GRAPHIC FORM IS INTENDED TO BE PLOTTED AT A 1" = 200' SCALE USING A 24x36 SHEET SIZE.

MONUMENTATION/
CONTROL POINT COORDINATES:

POINT#	GRID NORTHING FT.	GRID EASTING FT.	ELEVATION	DESCRIPTION
14	1120163.00	441962.90	7.64	13-84-B12
15	1108900.60	449431.40	8.71	17-84-A03
16	1125597.70	435920.60	3.43	13-84-B09
17	1108327.30	449324.20	7.83	ARC1
18	1100653.80	454235.80	4.32	ARC2
20	1128409.46	432444.38	4.13	TBM
25	1128396.58	432547.38	3.23	TBM

ABBREVIATIONS

- NAVD
-
- NORTH AMERICAN VERTICAL DATUM.
- MHW
-
- MEAN HIGH WATER.
- MHWL
-
- MEAN HIGH WATER LINE.
- RTK
-
- REAL-TIME KINEMATIC.
- NAD
-
- NORTH AMERICAN DATUM.
- FPRN
-
- FLORIDA PERMANENT REFERENCE NETWORK.
- TBM
-
- TEMPORARY BENCHMARK.
- SV
-
- SURVEY VESSEL.

MAP LEGEND

- 
- =
- SPOT ELEVATION
- 
- =
- TOWN OF LONGBOAT KEY - PARCEL DATA



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NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

PRE-CONSTRUCTION SURVEY
OF
R-MONUMENTS
BEACH NOURISHMENT PROJECT
SURVEYOR'S REPORT
LONGBOAT KEY, MANATEE COUNTY AND SARASOTA COUNTY, FLORIDA
30 MARCH 2021

JOB NUMBER:02174-0053

SCALE:1"=200'

CAD NUMBER:VH-021740053_R-MON_PLAN_VIEW

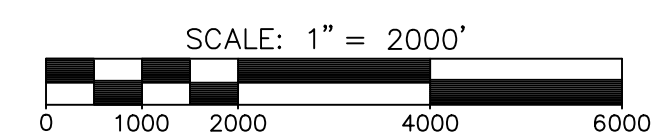
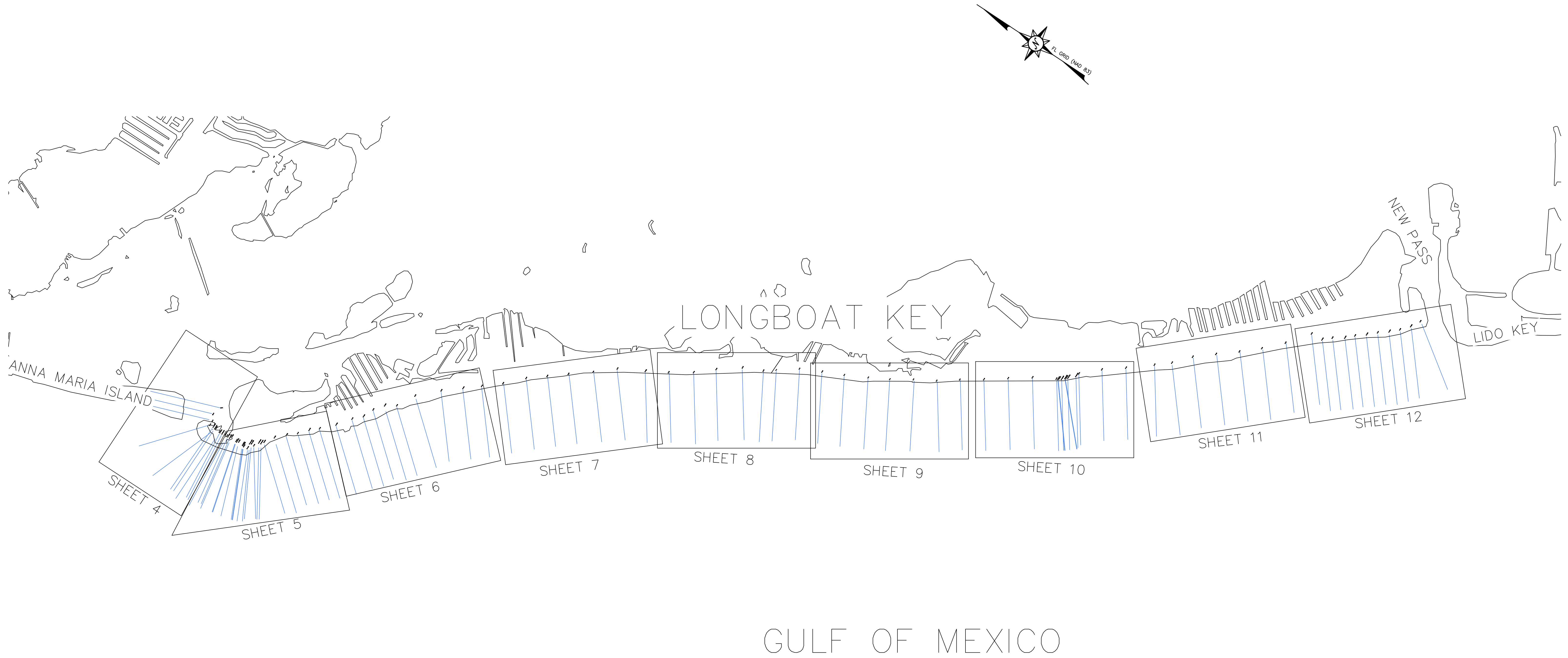
PLS:CJB

PARTY CHIEF:JTL

CAD TECH:GDO

FIELD BOOK/PAGE:FB/PG

DRAWING NUMBER:DWG



MCKIM & CREED
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NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

PRE-CONSTRUCTION SURVEY
OF
R-MONUMENTS
BEACH NOURISHMENT PROJECT
SHEET PLAN
LONGBOAT KEY, MANATEE COUNTY AND SARASOTA COUNTY, FLORIDA
30 MARCH 2021

JOB NUMBER: 02174-0053
SCALE: 1"=2000'
CAD NUMBER: V1-021740053_R-MON_PLAN VIEW
PLS: CJB
PARTY CHIEF: JTL
CAD TECH: GDO
FIELD BOOK/PAGE: FB/PG
DRAWING NUMBER: DWG
SHEET 3 OF 12

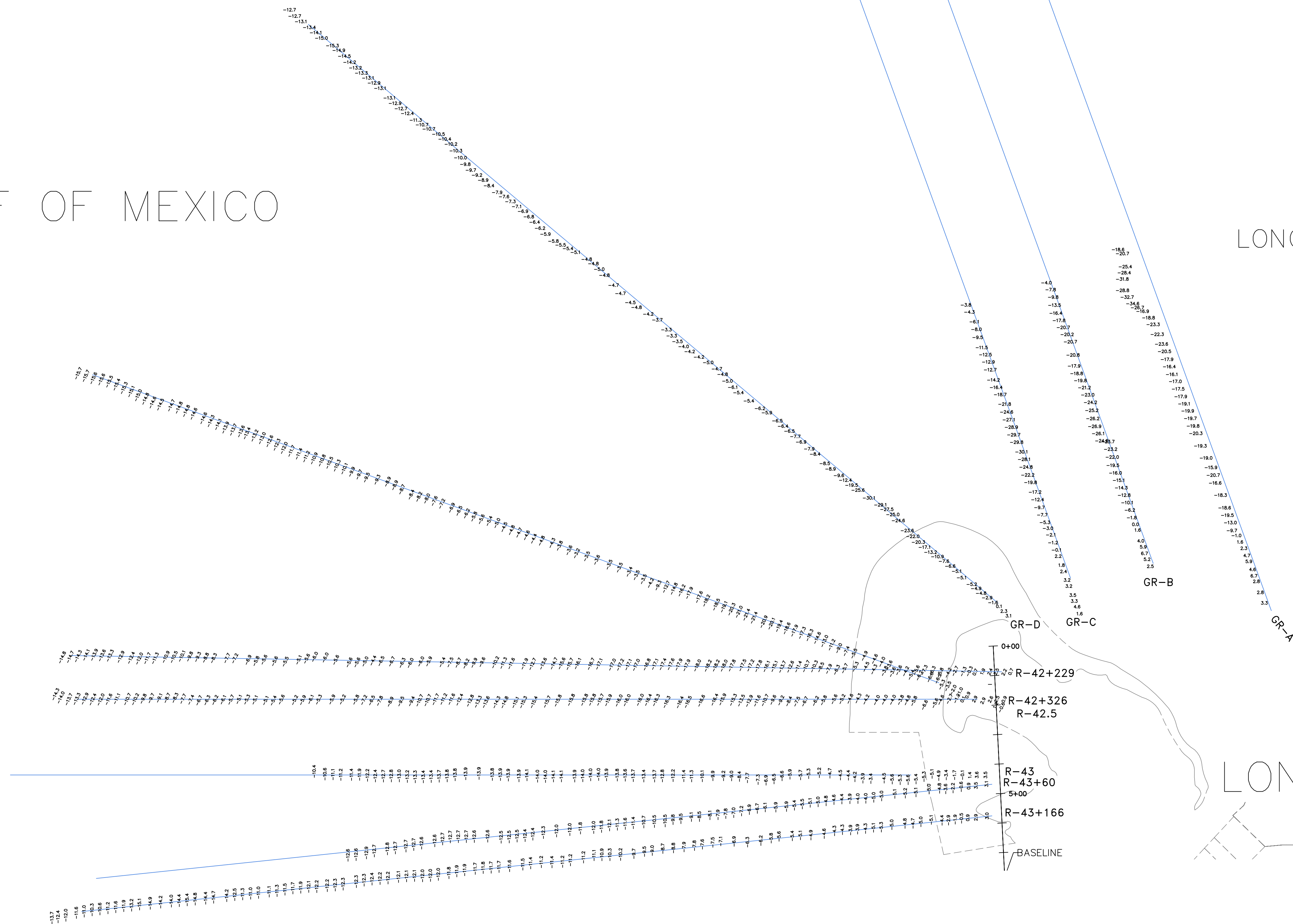
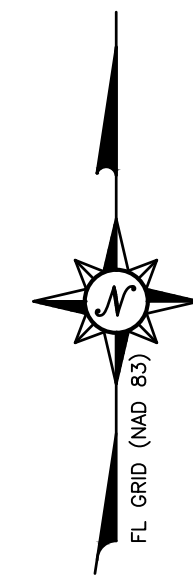
GULF OF MEXICO

LONGBOAT PASS

LONGBOAT KEY

NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND IN U.S. SURVEY FEET UNLESS OTHERWISE SHOWN.
2. HORIZONTAL DATUM IS FL GRID NAD 83, WEST ZONE.
3. VERTICAL DATUM IS NAVD 88.
4. ELEVATIONS ARE IN FEET AND TENTHS.
5. SURVEY PERFORMED IN MARCH 2021 USING RTK GPS EQUIPMENT.
6. GIS BACKGROUND DATA FROM MANATEE AND SARASOTA COUNTIES ARE FOR VISUAL REFERENCE ONLY.
7. SOUNDINGS WERE ACQUIRED WITH MCKIM & CREED SV "SOUNDS DEEP" USING ODOM CVM SINGLE BEAM SONAR 200 kHz AND SBG EKINOX2 INERTIAL NAVIGATION. HYPACK SOFTWARE WAS USED FOR DATA COLLECTION AND PROCESSING.
8. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.

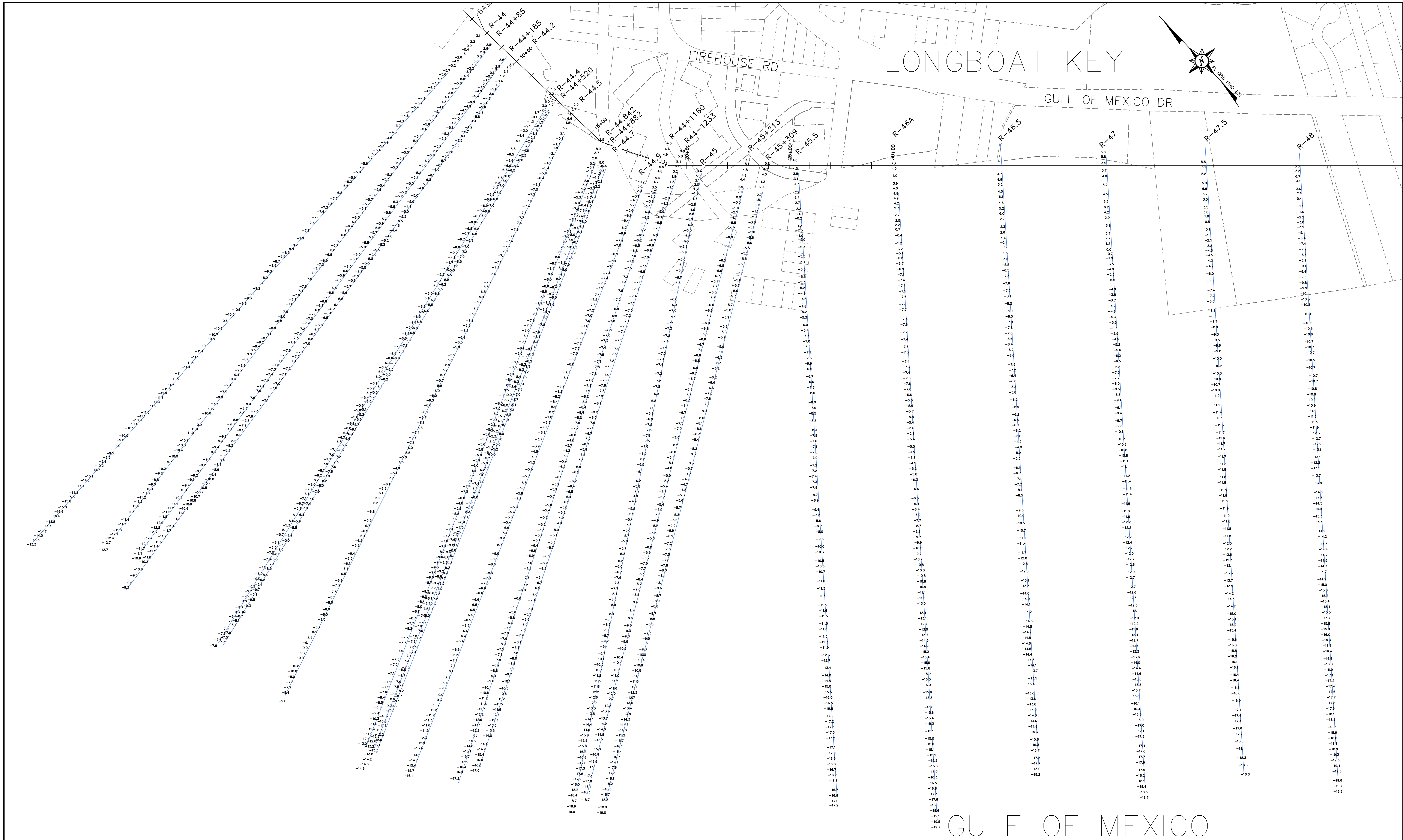


SCALE: 1" = 200'

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WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
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NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

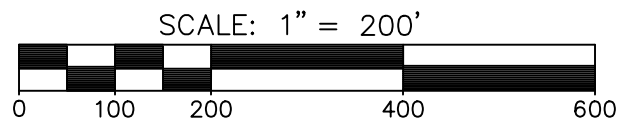
PRE-CONSTRUCTION SURVEY
OF
R-MONUMENTS
BEACH NOURISHMENT PROJECT
GR-A TO R-44
LONGBOAT KEY, MANATEE COUNTY AND SARASOTA COUNTY, FLORIDA
30 MARCH 2021

JOB NUMBER: 02174-0053
SCALE: 1"=200'
CAD NUMBER: VH-021740053_R-MON_PLAN_VIEW
PLS: CJB
PARTY CHIEF: JTL
CAD TECH: GDO
FIELD BOOK/PAGE: FB/PG
DRAWING NUMBER: DWG
SHEET 4 OF 12



NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND IN U.S. SURVEY FEET UNLESS OTHERWISE SHOWN.
2. HORIZONTAL DATUM IS FL GRID NAD 83, WEST ZONE.
3. VERTICAL DATUM IS NAVD 88.
4. ELEVATIONS ARE IN FEET AND TENTHS.
5. SURVEY PERFORMED IN MARCH 2021 USING RTK GPS EQUIPMENT.
6. GIS BACKGROUND DATA FROM MANATEE AND SARASOTA COUNTIES ARE FOR VISUAL REFERENCE ONLY.
7. SOUNDINGS WERE ACQUIRED WITH MCKIM & CREED SV "SOUNDS DEEP" USING ODOM CVM SINGLE BEAM SONAR 200 KHZ AND SBO EKINOX2 INERTIAL NAVIGATION. HYPACK SOFTWARE WAS USED FOR DATA COLLECTION AND PROCESSING.
8. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.



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NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

PRE-CONSTRUCTION SURVEY
OF
R-MONUMENTS
BEACH NOURISHMENT PROJECT
R-44 TO R-48
LONGBOAT KEY, MANATEE COUNTY AND SARASOTA COUNTY, FLORIDA
30 MARCH 2021

JOB NUMBER: 02174-0053
SCALE: 1"=200'
CAD NUMBER: VH-021740053_R-MON-PLAN VIEW
PLS: CJB
PARTY CHIEF: JTL
CAD TECH: GDO
FIELD BOOK/PAGE: FB/PG
DRAWING NUMBER: DWG
SHEET 5 OF 12

LONGBOAT KEY

GULF OF MEXICO DR

GULF SIDE RD

R-49

R-49.5

R-50

R-50.5

R-51

R-52

R-53

R-54A

R-55

NOTES:

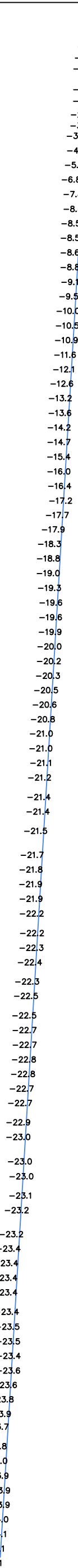
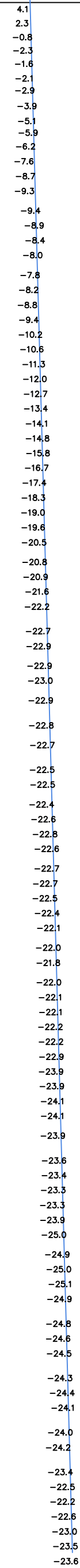
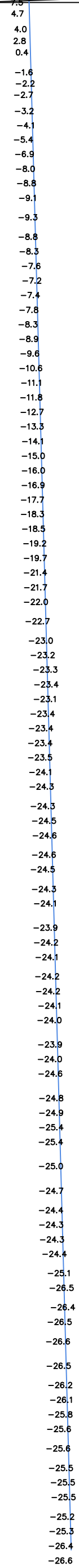
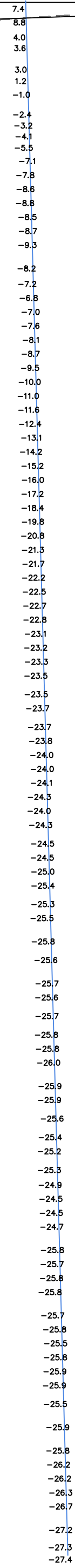
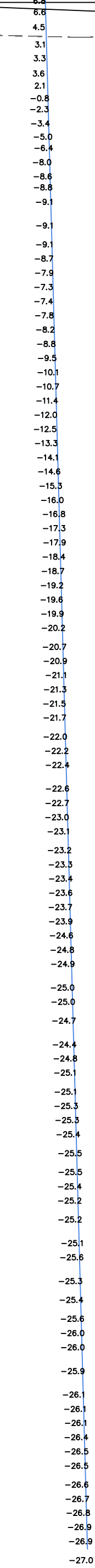
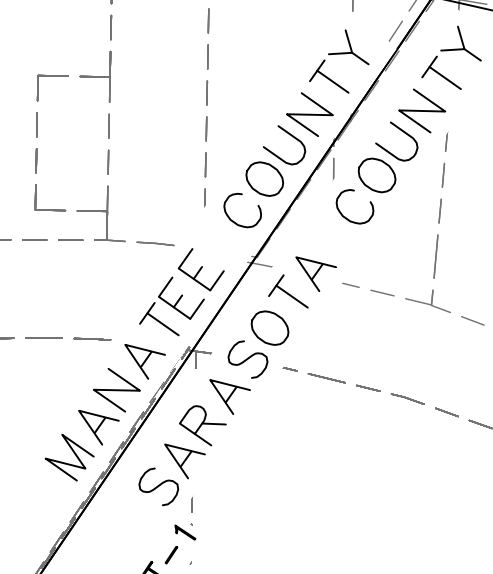
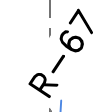
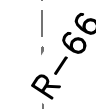
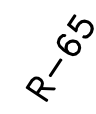
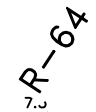
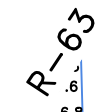
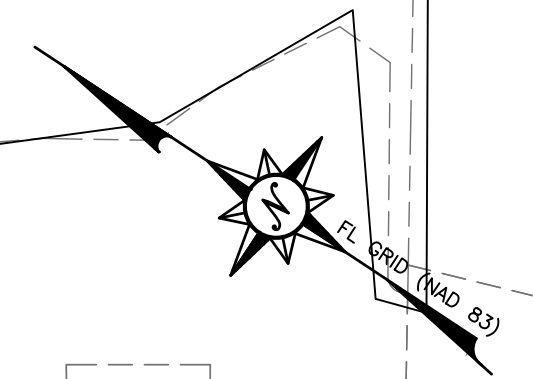
1. ALL DISTANCES ARE HORIZONTAL GROUND IN U.S. SURVEY FEET UNLESS OTHERWISE SHOWN.
2. HORIZONTAL DATUM IS FL GRID NAD 83, WEST ZONE.
3. VERTICAL DATUM IS NAVD 83.
4. ELEVATIONS ARE IN FEET AND TENTHS.
5. SURVEY PERFORMED IN MARCH 2021 USING RTK GPS EQUIPMENT.
6. GIS BACKGROUND DATA FROM MANATEE AND SARASOTA COUNTIES ARE FOR VISUAL REFERENCE ONLY.
7. SOUNDINGS WERE ACQUIRED WITH MCKIM & CREED SV "SOUNDS DEEP" USING ODOM CVM SINGLE BEAM SONAR 200 kHz AND SBO EKINOX2 INERTIAL NAVIGATION. HYPACK SOFTWARE WAS USED FOR DATA COLLECTION AND PROCESSING.
8. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.

SCALE: 1" = 200'

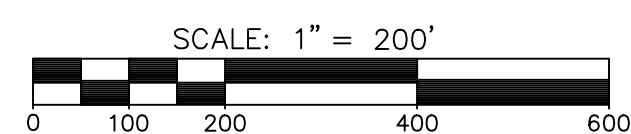
MCKIM & CREED
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TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

PRE-CONSTRUCTION SURVEY
OF
R-MONUMENTS
BEACH NOURISHMENT PROJECT
R-48.5 TO R-55
LONGBOAT KEY, MANATEE COUNTY AND SARASOTA COUNTY, FLORIDA
30 MARCH 2021

JOB NUMBER: 02174-0053
SCALE: 1"=200'
CAD NUMBER: VH-021740053_R-MON_PLAN_VIEW
PLS: CJB
PARTY CHIEF: JTL
CAD TECH: GDO
FIELD BOOK/PAGE: FB/PG
DRAWING NUMBER: DWG
SHEET 6 OF 12



1. ALL DISTANCES ARE HORIZONTAL, GROUND IN U.S. SURVEY FEET UNLESS OTHERWISE SHOWN.
2. HORIZONTAL DATUM IS FL GRID NAO 83, WEST ZONE.
3. VERTICAL DATUM IS NAVD 88.
4. ELEVATIONS ARE IN FEET AND TENTHS.
5. SURVEY PERFORMED IN MARCH 2021 USING RTK GPS EQUIPMENT.
6. ALL BACKGROUND DATA FROM MINNAPOTA AND SARASOTA COUNTIES ARE FOR VISUAL REFERENCE ONLY.
7. SOUNDINGS WERE ACQUIRED WITH KIMM & CREED SW "SOUNDS DEEP" USING ODOM CV SINGLE BEAM SONAR 200 KHZ AND S80 EXGECINERTIAL NAVIGATION. HYPACK SOFTWARE WAS USED FOR DATA COLLECTION.
8. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.



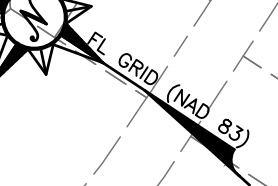
PRE-CONSTRUCTION SURVEY
OF
R-MONUMENTS
BEACH NOURISHMENT PROJECT
R-63 TO R-2
LONGBOAT KEY, MANATEE COUNTY AND SARASOTA COUNTY, FLORIDA
30 MARCH 2021

JOB NUMBER: 02174-0053
SCALE: 1"=200'
CAD NUMBER: VH-021740053_R-MON_PLAN_VIEW
PLS: CJB
PARTY CHIEF: JTL
CAD TECH: GDO
FIELD BOOK/PAGE: FB/PG
DRAWING NUMBER: DWG

SHEET 8 OF 12

LONGBOAT KEY

GULF OF MEXICO DR



TRITON BEND

R-3A

R-4

R-5

R-6

R-7

R-8

R-9

6.4
5.2
7.6
8.4
4.6
3.0
-0.1
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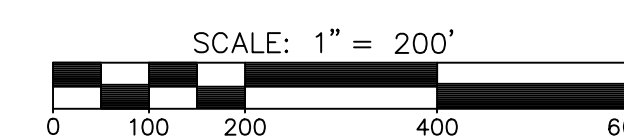
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- NOTES:**
1. ALL DISTANCES ARE HORIZONTAL GROUND IN U.S. SURVEY FEET UNLESS OTHERWISE SHOWN.
 2. HORIZONTAL DATUM IS FL GRID NAD 83, WEST ZONE.
 3. VERTICAL DATUM IS NAVD 83.
 4. ELEVATIONS ARE IN FEET AND TENTHS.
 5. SURVEY PERFORMED IN MARCH 2021 USING RTK GPS EQUIPMENT.
 6. GIS BACKGROUND DATA FROM MANATEE AND SARASOTA COUNTIES ARE FOR VISUAL REFERENCE ONLY.
 7. SOUNDINGS WERE ACQUIRED WITH MCKIM & CREED SV "SOUNDS DEEP" USING ODOM OVM SINGLE BEAM SONAR 200 kHz AND SBC EKINOX2 INERTIAL NAVIGATION. HYPACK SOFTWARE WAS USED FOR DATA COLLECTION AND PROCESSING.
 8. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.



MCKIM & CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

PRE-CONSTRUCTION SURVEY
OF
R-MONUMENTS
BEACH NOURISHMENT PROJECT
R-3A TO R-9
LONGBOAT KEY, MANATEE COUNTY AND SARASOTA COUNTY, FLORIDA
30 MARCH 2021

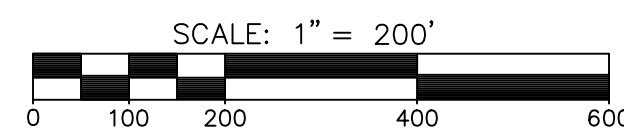
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PLS: CJB
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CAD TECH: GDO
FIELD BOOK/PAGE: FB/PG
DRAWING NUMBER: DWG
SHEET 9 OF 12

LONGBOAT KEY



NOTES:

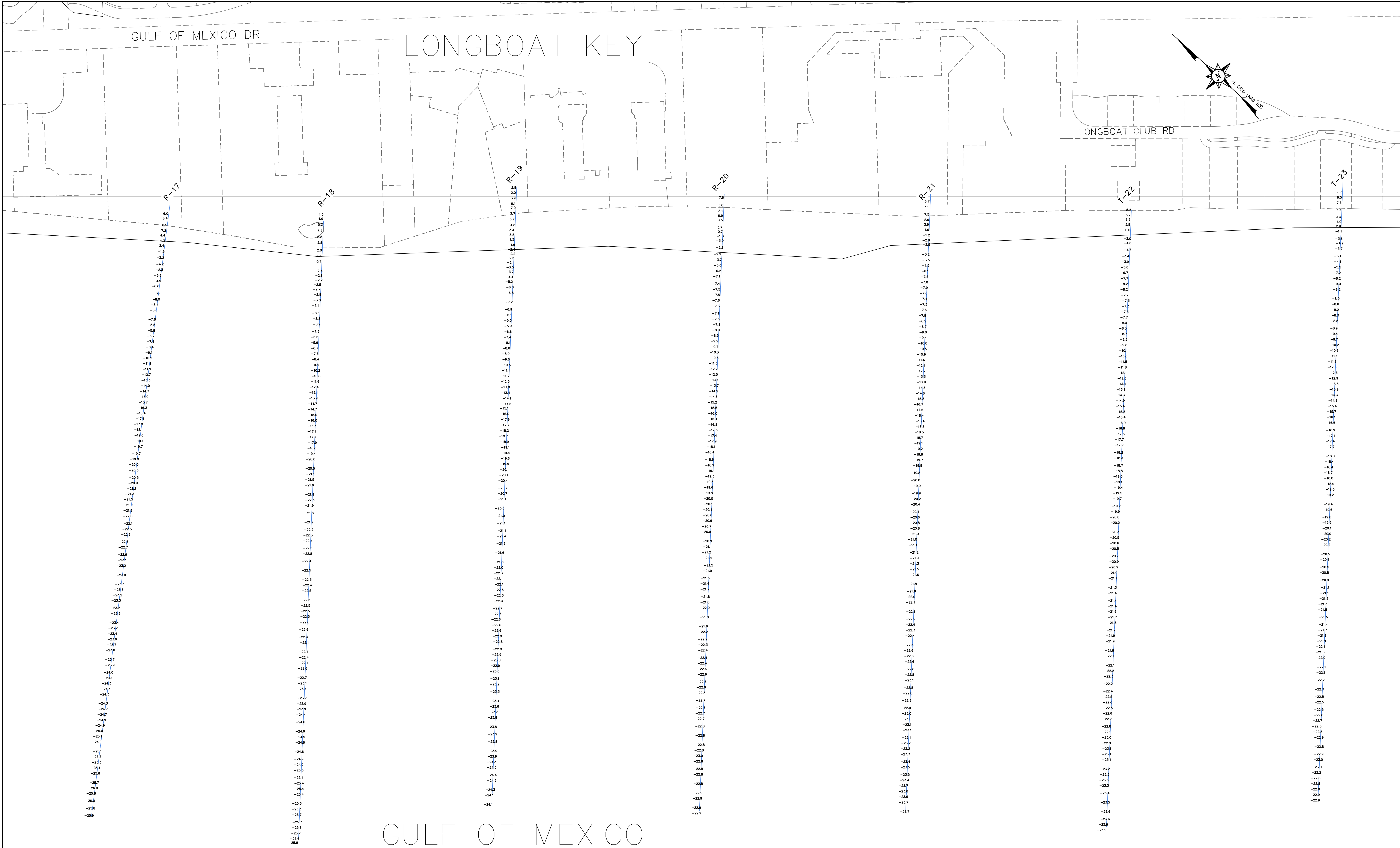
- ALL DISTANCES ARE HORIZONTAL GROUND IN U.S. SURVEY FEET UNLESS OTHERWISE SHOWN.
- HORIZONTAL DATUM IS FL GRID NAD 83, WEST ZONE.
- VERTICAL DATUM IS NAVD 88.
- ELEVATIONS ARE IN FEET AND TENTHS.
- SURVEY PERFORMED IN MARCH 2021 USING RTK OPS EQUIPMENT.
- GIS BACKGROUND DATA FROM MANATEE AND SARASOTA COUNTIES ARE FOR VISUAL REFERENCE ONLY.
- SOUNDINGS WERE ACQUIRED WITH MCKIM & CREED SV "SOUNDS DEEP" USING ODOM CVM SINGLE BEAM SONAR 200 KHZ AND SSG EKINOX2 INERTIAL NAVIGATION. HYPACK SOFTWARE WAS USED FOR DATA COLLECTION AND PROCESSING.
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.




MCKIM & CREED
 243 NORTH FRONT STREET
 WILMINGTON, NORTH CAROLINA 28401
 TELEPHONE: (910) 343-1048
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 NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

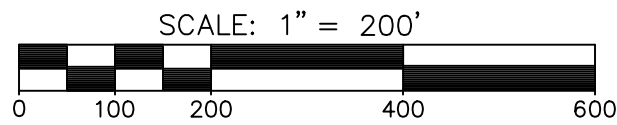
PRE-CONSTRUCTION SURVEY
 OF
R-MONUMENTS
 BEACH NOURISHMENT PROJECT
 R-10 TO R-16
 LONGBOAT KEY, MANATEE COUNTY AND SARASOTA COUNTY, FLORIDA
 30 MARCH 2021

JOB NUMBER: 02174-0053
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 PLS: JTL
 PARTY CHIEF: JTL
 CAD TECH: GDO
 FIELD BOOK/PAGE: FB/PG
 DRAWING NUMBER: DWG
 SHEET 10 OF 12



NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND IN U.S. SURVEY FEET UNLESS OTHERWISE SHOWN.
2. HORIZONTAL DATUM IS FL GRID NAD 83, WEST ZONE.
3. VERTICAL DATUM IS NAVD 88.
4. ELEVATIONS ARE IN FEET AND TENTHS.
5. SURVEY PERFORMED IN MARCH 2021 USING RTK GPS EQUIPMENT.
6. QIS BACKGROUND DATA FROM MANATEE AND SARASOTA COUNTIES ARE FOR VISUAL REFERENCE ONLY.
7. BEAM SONAR 200 KHz AND SBG EKINOX2 INERTIAL NAVIGATION. HYPACK SOFTWARE WAS USED FOR DATA COLLECTION AND PROCESSING.
8. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.



MCKIM & CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
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NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

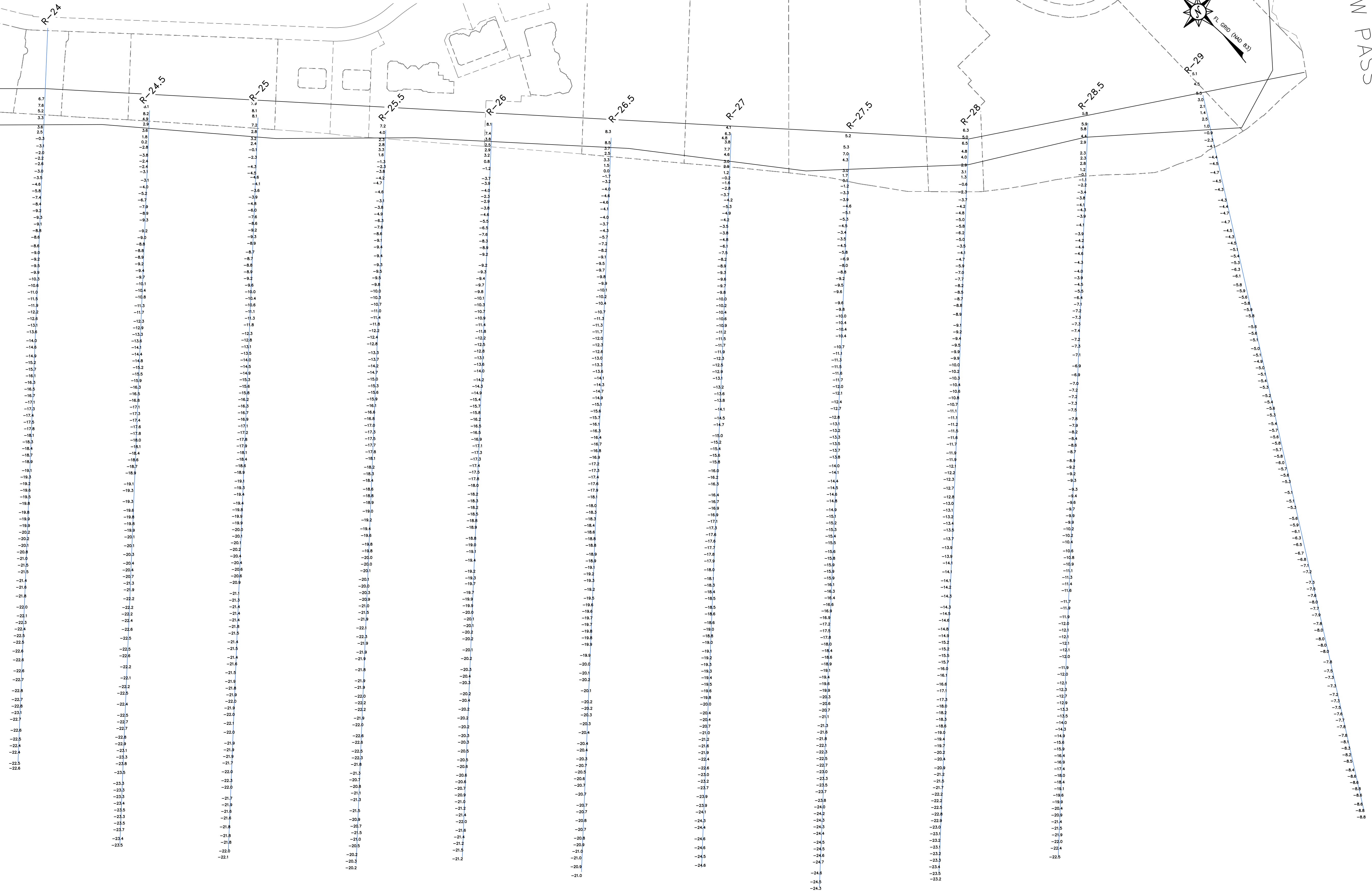
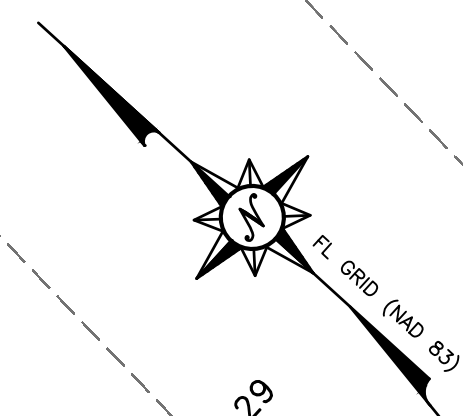
PRE-CONSTRUCTION SURVEY
OF
R-MONUMENTS
BEACH NOURISHMENT PROJECT
R-17 TO T-23
LONGBOAT KEY, MANATEE COUNTY AND SARASOTA COUNTY, FLORIDA
30 MARCH 2021

JOB NUMBER: 02174-0053
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CAD NUMBER: VH-021740053_R-MON_PLAN VIEW
PLS: CJB
PARTY CHIEF: JTL
CAD TECH: GDO
FIELD BOOK/PAGE: FB/PG
DRAWING NUMBER: DWG
SHEET 11 OF 12



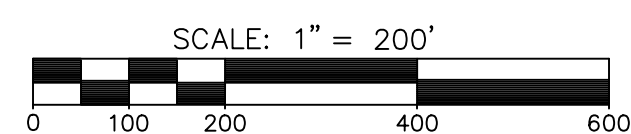
NEW PASS

VIDEO KEY



GULF OF MEXICO

1. ALL DISTANCES ARE HORIZONTAL, GROUND AND IN U.S. SURVEY FEET UNLESS OTHERWISE SHOWN.
2. HORIZONTAL DATUM IS FL GRID NA 83, WEST ZONE.
3. VERTICAL DATUM IS NAVD 88.
4. ELEVATIONS ARE IN FEET AND TENTHS.
5. SURVEY PERFORMED IN MARCH 2021 USING RTK GPS EQUIPMENT.
6. GROUND BACKGROUND DATA FROM MAINE AND NEW HAMPSHIRE COUNTRIES ARE FOR VISUAL REFERENCE ONLY.
7. SOUNDINGS WERE ACQUIRED WITH KIMMOK & CREED SV "SOUNDS DEEP" USING ODOM CVM SINGLE
8. BEAM SONAR 200 KHZ AND S85 CENKIMOK INERTIAL NAVIGATION. HYPACK SOFTWARE WAS USED FOR
9. DATA COLLECTION.
10. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE
11. INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT
12. TIME.



McKIM & CREED

243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
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NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

PRE-CONSTRUCTION SURVEY

OF

R-MONUMENTS

BEACH NOURISHMENT PROJECT

R-24 TO R-29

LONGBOAT KEY, MANATEE COUNTY AND SARASOTA COUNTY, FLORIDA
30 MARCH 2021

JOB NUMBER:	02174-0053
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SHEET 12 OF 12