

# **APPENDIX F: October 2016 & May 2017 Monitoring Survey Drawings**

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This appendix contains reduced versions of the survey drawings produced by McKim and Creed, Inc.<sup>1</sup> for the October 2016 and May 2017 Bald Head Island beach profile and borrow site monitoring surveys.

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<sup>1</sup> McKim & Creed, Inc.; 243 North Front Street; Wilmington, NC 28401

# **October 2016 Drawings**

THIS SURVEY WAS PERFORMED IN ACCORDANCE WITH THE STANDARDS FOR SURVEYING PRACTICES AS SET FORTH IN THE NORTH CAROLINA SURVEYING ACT OF 2002 AND THE REGULATIONS THEREUNDER. THE SURVEY WAS PERFORMED IN ACCORDANCE WITH THE STANDARDS FOR SURVEYING PRACTICES AS SET FORTH IN THE NORTH CAROLINA SURVEYING ACT OF 2002 AND THE REGULATIONS THEREUNDER. THE SURVEY WAS PERFORMED IN ACCORDANCE WITH THE STANDARDS FOR SURVEYING PRACTICES AS SET FORTH IN THE NORTH CAROLINA SURVEYING ACT OF 2002 AND THE REGULATIONS THEREUNDER.

CAPE FEAR RIVER  
FLOOD

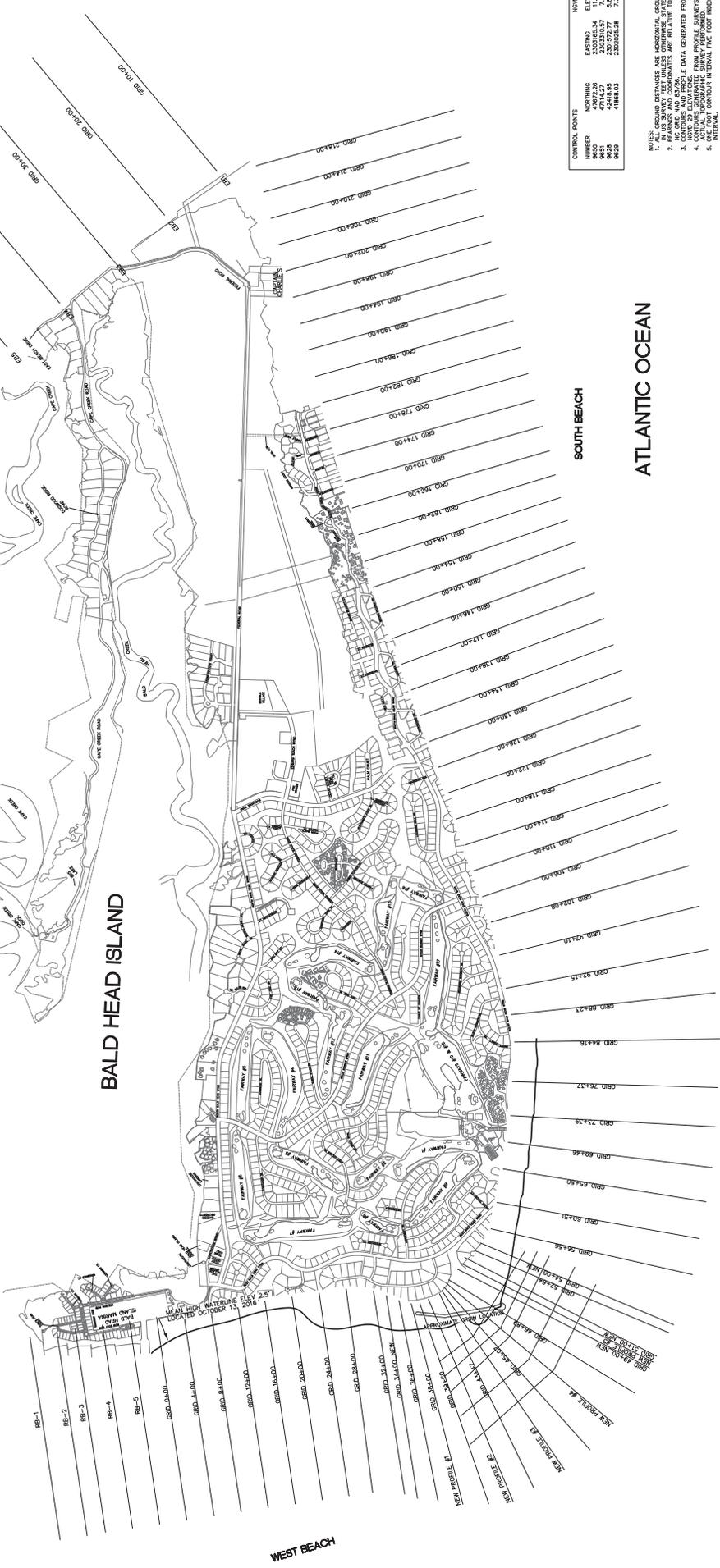


PROJECT SURVEYED WITH MOBILE GPS SURVEYING USING RTK MODE. THE SURVEY WAS PERFORMED IN ACCORDANCE WITH THE STANDARDS FOR SURVEYING PRACTICES AS SET FORTH IN THE NORTH CAROLINA SURVEYING ACT OF 2002 AND THE REGULATIONS THEREUNDER. THE SURVEY WAS PERFORMED IN ACCORDANCE WITH THE STANDARDS FOR SURVEYING PRACTICES AS SET FORTH IN THE NORTH CAROLINA SURVEYING ACT OF 2002 AND THE REGULATIONS THEREUNDER.

DATE: 10/26/2016  
 PROFESSIONAL LAND SURVEYOR  
 1-3672

WEST BEACH

# BALD HEAD ISLAND



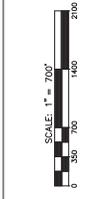
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8653	233106.34	47972.28	11.16
8654	233106.34	47972.28	11.16
8655	233106.34	47972.28	11.16
8656	233106.34	47972.28	11.16
8657	233106.34	47972.28	11.16
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8659	233106.34	47972.28	11.16
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8662	233106.34	47972.28	11.16
8663	233106.34	47972.28	11.16
8664	233106.34	47972.28	11.16
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8666	233106.34	47972.28	11.16
8667	233106.34	47972.28	11.16
8668	233106.34	47972.28	11.16
8669	233106.34	47972.28	11.16
8670	233106.34	47972.28	11.16
8671	233106.34	47972.28	11.16
8672	233106.34	47972.28	11.16
8673	233106.34	47972.28	11.16
8674	233106.34	47972.28	11.16
8675	233106.34	47972.28	11.16
8676	233106.34	47972.28	11.16
8677	233106.34	47972.28	11.16
8678	233106.34	47972.28	11.16
8679	233106.34	47972.28	11.16
8680	233106.34	47972.28	11.16
8681	233106.34	47972.28	11.16
8682	233106.34	47972.28	11.16
8683	233106.34	47972.28	11.16
8684	233106.34	47972.28	11.16
8685	233106.34	47972.28	11.16
8686	233106.34	47972.28	11.16
8687	233106.34	47972.28	11.16
8688	233106.34	47972.28	11.16
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8694	233106.34	47972.28	11.16
8695	233106.34	47972.28	11.16
8696	233106.34	47972.28	11.16
8697	233106.34	47972.28	11.16
8698	233106.34	47972.28	11.16
8699	233106.34	47972.28	11.16
8700	233106.34	47972.28	11.16

# ATLANTIC OCEAN

SOUTH BEACH

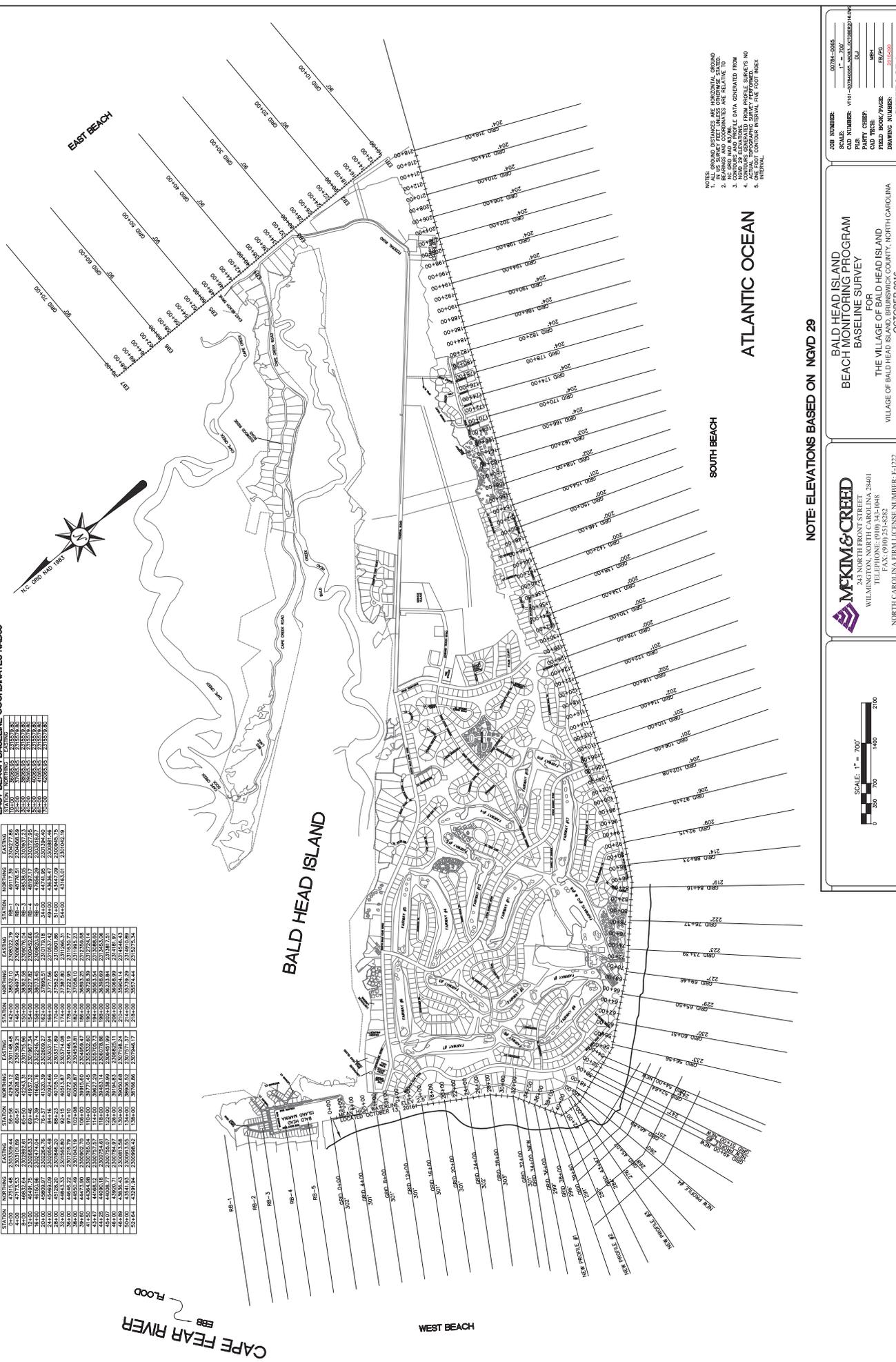
EAST BEACH

NOTE: ELEVATIONS BASED ON NGVD 29



**MCKIM & CREED**  
 243 NORTH FRONT STREET  
 WILMINGTON, NORTH CAROLINA 28401  
 TEL: (910) 343-6666  
 FAX: (910) 351-8382  
 NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

JOB NUMBER: 00784-0001  
 SCALE: 1" = 200'  
 CAD NUMBER: W10-027835-0001-0001-0001-0001  
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 CAD USER: JMC  
 CAD DATE: 10/26/2016  
 CAD TIME: 10:55:58  
 PLOT DATE: 10/26/2016  
 PLOT TIME: 10:55:58  
 SHEET 1 OF 4



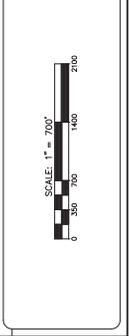
NOTES:  
 1. ALL ELEVATIONS ARE UNLESS OTHERWISE NOTED.  
 2. IN THIS SURVEY FIELD LINES ARE UNLESS OTHERWISE NOTED.  
 3. ALL CURVES AND SLOPES ARE RELATIVE TO THE HORIZONTAL.  
 4. ALL DISTANCES ARE IN FEET.  
 5. ALL DISTANCES ARE IN FEET.  
 6. ALL DISTANCES ARE IN FEET.  
 7. ALL DISTANCES ARE IN FEET.  
 8. ALL DISTANCES ARE IN FEET.  
 9. ALL DISTANCES ARE IN FEET.  
 10. ALL DISTANCES ARE IN FEET.

NOTE: ELEVATIONS BASED ON NGVD 29

JOB NUMBER: 00784-0001  
 SCALE: 1" = 200'  
 CAD NUMBER: W10-02784SSA-ANNA-ACCURATE-11-11  
 DATE: 11/11/11  
 CAD FIRM: MCKIM & CREED  
 CAD TECH: JRM  
 FIELD BOOK/PAGE: 18/25  
 DRAWING NUMBER: 102550  
 SHEET 2 OF 4

BALD HEAD ISLAND  
 BEACH MONITORING PROGRAM  
 BASELINE SURVEY  
 FOR  
 THE VILLAGE OF BALD HEAD ISLAND  
 WILMINGTON COUNTY, NORTH CAROLINA  
 OCTOBER 2016

MCKIM & CREED  
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 WILMINGTON, NORTH CAROLINA 28401  
 TEL: (910) 343-6666  
 FAX: (910) 351-6382  
 NORTH CAROLINA FIRM LICENSE NUMBER: F-1222



EAST BEACH BASELINE COORDINATES NAD83

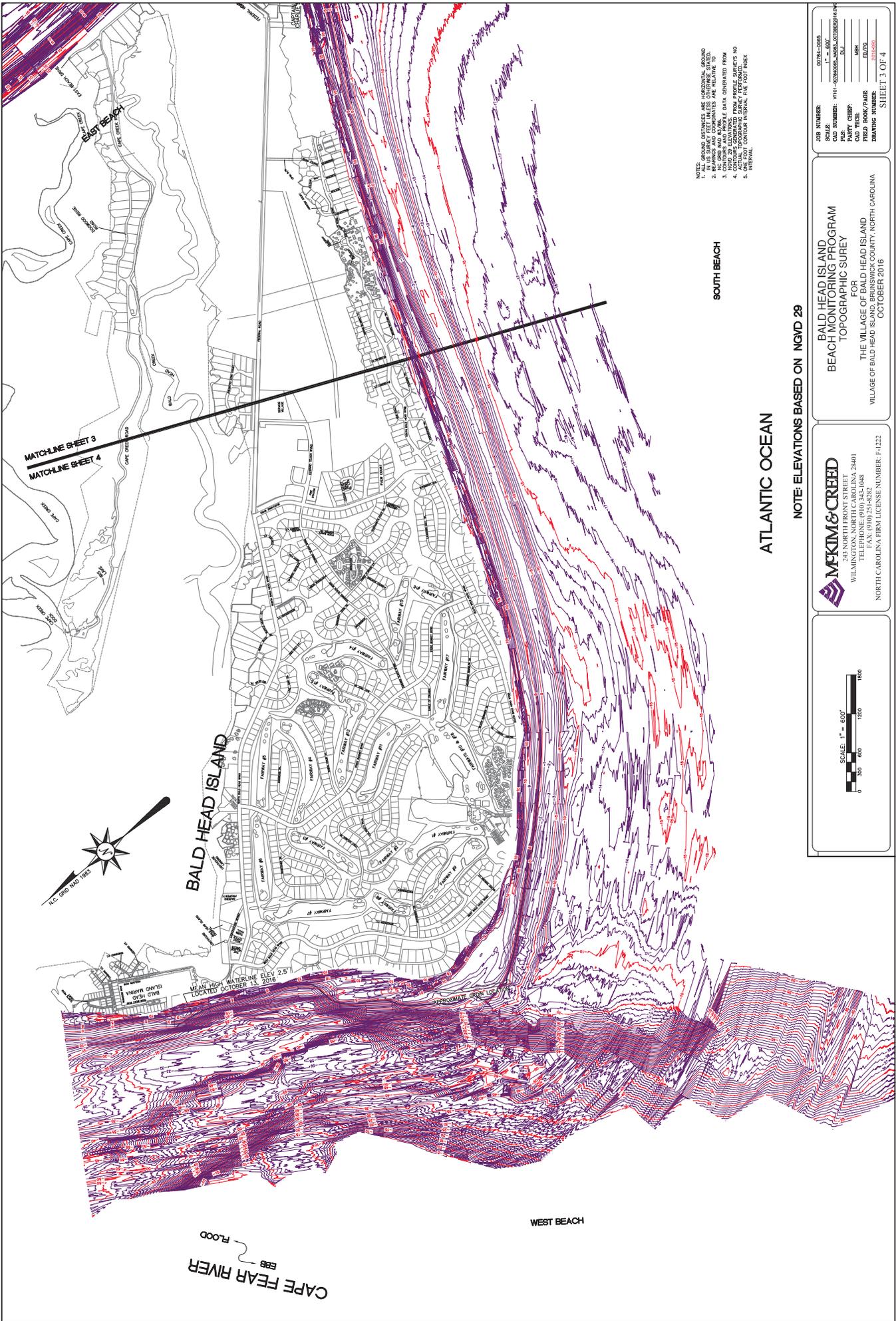
STATION	NORTHING	EASTING
EB-1	4250.00	231579.80
EB-2	4250.00	231579.80
EB-3	4250.00	231579.80
EB-4	4250.00	231579.80
EB-5	4250.00	231579.80
EB-6	4250.00	231579.80
EB-7	4250.00	231579.80
EB-8	4250.00	231579.80
EB-9	4250.00	231579.80
EB-10	4250.00	231579.80

NEW LINES NAD83

STATION	NORTHING	EASTING
RB-1	4250.00	231579.80
RB-2	4250.00	231579.80
RB-3	4250.00	231579.80
RB-4	4250.00	231579.80
RB-5	4250.00	231579.80
RB-6	4250.00	231579.80
RB-7	4250.00	231579.80
RB-8	4250.00	231579.80
RB-9	4250.00	231579.80
RB-10	4250.00	231579.80

BASELINE COORDINATES NAD 83

STATION	NORTHING	EASTING	STATION	NORTHING	EASTING
81-0	4693.84	230286.61	81-1	4693.84	230286.61
81-1	4693.84	230286.61	81-2	4693.84	230286.61
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81-97	4693.84	230286.61	81-98	4693.84	230286.61
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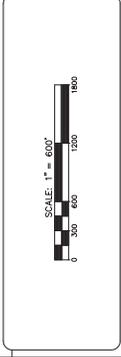


NOTES: ELEVATION POINTS ARE HORIZONTAL PROJECTIONS  
 1. IN US SURVEY FEET UNLESS OTHERWISE STATED.  
 2. ALL ELEVATIONS ARE RELATIVE TO MLLW.  
 3. ALL ELEVATIONS ARE BASED ON THE DATUM OF 1988.  
 4. ALL ELEVATIONS ARE BASED ON THE DATUM OF 1988.  
 5. ACTUAL TOPOGRAPHIC SURVEY PERFORMANCE IS NO GUARANTEE.  
 6. INTERVAL: 10 FEET

JOB NUMBER:	00714-0001
SCALE:	1" = 600'
CAD NUMBER:	W10-027485A.MXD/ACCIDENT/PROJ
DATE:	01/11/16
CAD USER:	W10
CAD TYPED:	W10
CAD PLOT:	W10
FIELD BOOK/PAGE:	10/10
DRAWING NUMBER:	10/10
SHEET 3 OF 4	

**BALD HEAD ISLAND  
 BEACH MONITORING PROGRAM  
 TOPOGRAPHIC SURVEY**  
 FOR  
 THE VILLAGE OF BALD HEAD ISLAND  
 WILMINGTON COUNTY, NORTH CAROLINA  
 OCTOBER 2016

**MFKIM & CREED**  
 243 NORTH FRONT STREET  
 WILMINGTON, NORTH CAROLINA 28401  
 TEL: (910) 343-1000  
 FAX: (910) 351-6382  
 NORTH CAROLINA FIRM LICENSE NUMBER: F-1222



NOTE: ELEVATIONS BASED ON NGVD 29

ATLANTIC OCEAN

SOUTH BEACH

WEST BEACH

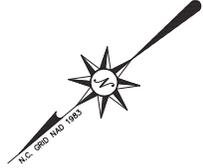
CAPE FEAR RIVER  
 EBB  
 FLOOD

BALD HEAD ISLAND

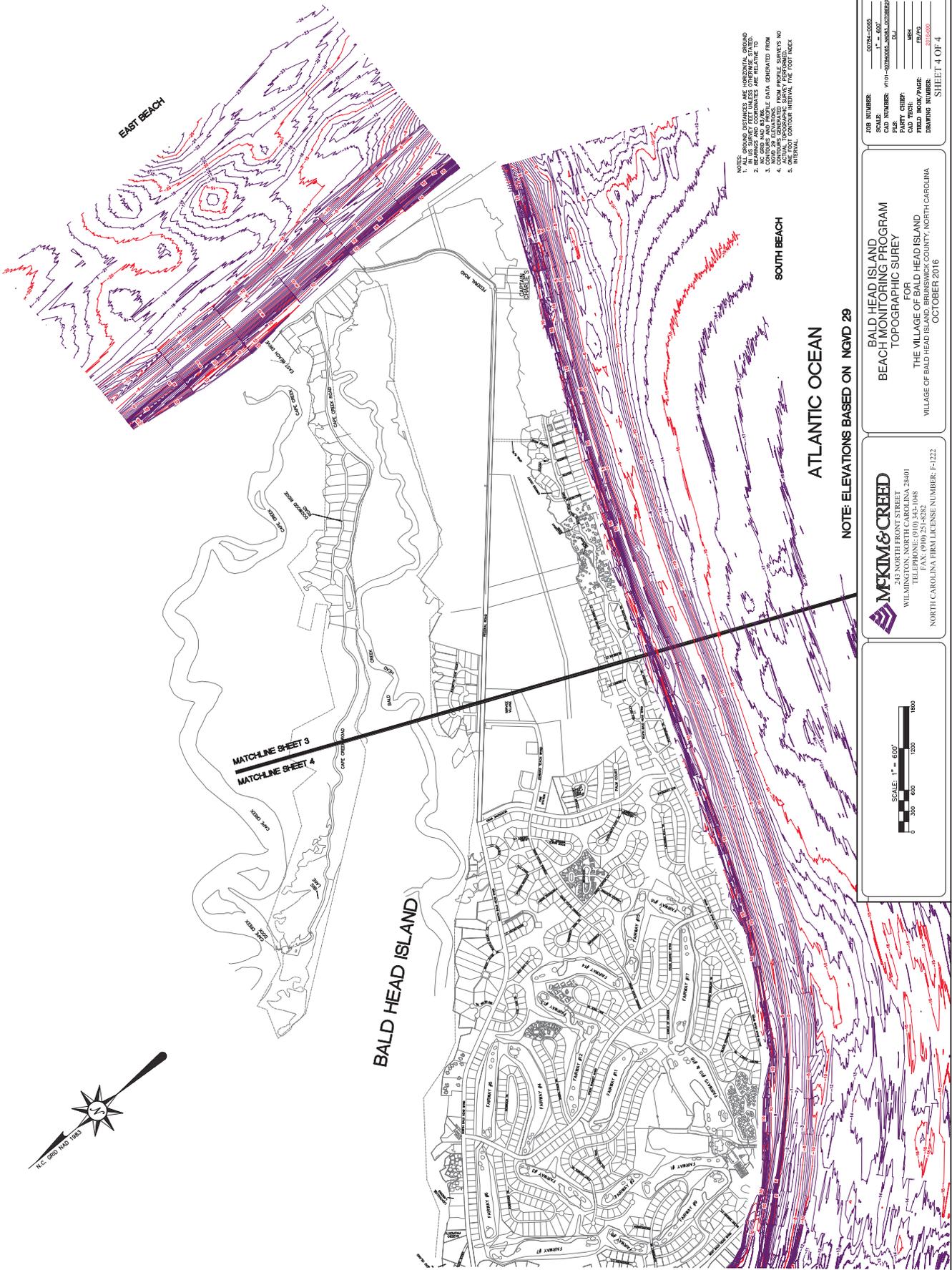
MATCHLINE SHEET 3  
 MATCHLINE SHEET 4



MEAN HIGH WATERLINE ELEV. 2.5'  
 LOCATED OCTOBER 15, 2016



CAPE FEAR RIVER  
E88  
FLOOD



EAST BEACH

BALD HEAD ISLAND

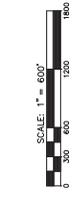
SOUTH BEACH

ATLANTIC OCEAN

WEST BEACH

- NOTES: ELEVATIONS ARE HORIZONTAL, UNLESS OTHERWISE NOTED.
1. ALL SURVEY FIELD UNITS ARE RELATIVE TO THE DATUM.
  2. ALL ELEVATIONS ARE RELATIVE TO THE DATUM.
  3. ALL ELEVATIONS ARE RELATIVE TO THE DATUM.
  4. ALL ELEVATIONS ARE RELATIVE TO THE DATUM.
  5. ALL ELEVATIONS ARE RELATIVE TO THE DATUM.

NOTE: ELEVATIONS BASED ON NGVD 29



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

BALD HEAD ISLAND  
 BEACH MONITORING PROGRAM  
 TOPOGRAPHIC SURVEY  
 FOR  
 THE VILLAGE OF BALD HEAD ISLAND  
 WILMINGTON COUNTY, NORTH CAROLINA  
 OCTOBER 2016

JOB NUMBER: 00704-0001  
 SCALE: 1" = 600'  
 CAD NUMBER: W10-0270400-0001-0001-0001-0001  
 DATE: 10/16/16  
 CAD TECH: JRM  
 FIELD BOOK/PAGE: 18/25  
 DRAWING NUMBER: 102500  
 SHEET 4 OF 4



# **May 2017 Drawings**

**EAST BEACH BASELINE COORDINATED NAD83**

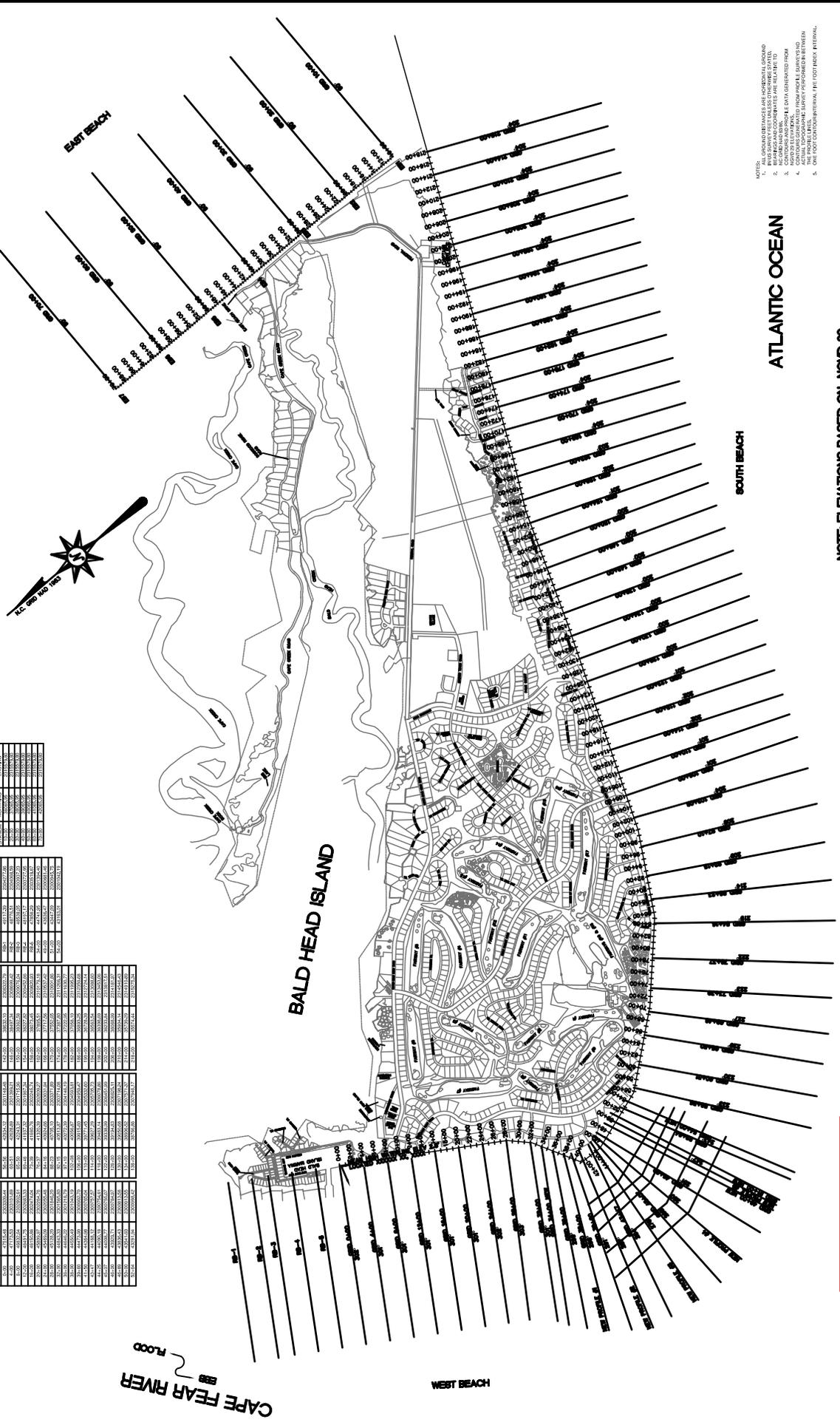
LINE NO.	START POINT	END POINT	ELEVATION
1	00+00	00+05	10.00
2	00+05	00+10	10.00
3	00+10	00+15	10.00
4	00+15	00+20	10.00
5	00+20	00+25	10.00
6	00+25	00+30	10.00
7	00+30	00+35	10.00
8	00+35	00+40	10.00
9	00+40	00+45	10.00
10	00+45	00+50	10.00
11	00+50	00+55	10.00
12	00+55	00+60	10.00
13	00+60	00+65	10.00
14	00+65	00+70	10.00
15	00+70	00+75	10.00
16	00+75	00+80	10.00
17	00+80	00+85	10.00
18	00+85	00+90	10.00
19	00+90	00+95	10.00
20	00+95	00+100	10.00

**NEW LINES NAD83**

LINE NO.	START POINT	END POINT	ELEVATION
1	00+00	00+05	10.00
2	00+05	00+10	10.00
3	00+10	00+15	10.00
4	00+15	00+20	10.00
5	00+20	00+25	10.00
6	00+25	00+30	10.00
7	00+30	00+35	10.00
8	00+35	00+40	10.00
9	00+40	00+45	10.00
10	00+45	00+50	10.00
11	00+50	00+55	10.00
12	00+55	00+60	10.00
13	00+60	00+65	10.00
14	00+65	00+70	10.00
15	00+70	00+75	10.00
16	00+75	00+80	10.00
17	00+80	00+85	10.00
18	00+85	00+90	10.00
19	00+90	00+95	10.00
20	00+95	00+100	10.00

**BASELINE COORDINATED NAD 83**

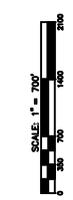
LINE NO.	START POINT	END POINT	ELEVATION
1	00+00	00+05	10.00
2	00+05	00+10	10.00
3	00+10	00+15	10.00
4	00+15	00+20	10.00
5	00+20	00+25	10.00
6	00+25	00+30	10.00
7	00+30	00+35	10.00
8	00+35	00+40	10.00
9	00+40	00+45	10.00
10	00+45	00+50	10.00
11	00+50	00+55	10.00
12	00+55	00+60	10.00
13	00+60	00+65	10.00
14	00+65	00+70	10.00
15	00+70	00+75	10.00
16	00+75	00+80	10.00
17	00+80	00+85	10.00
18	00+85	00+90	10.00
19	00+90	00+95	10.00
20	00+95	00+100	10.00



- NOTES:**
1. ALL ELEVATIONS ARE IN FEET.
  2. BENCHMARKS AND COORDINATES ARE RELATED TO THE NATIONAL DATUM OF 1983.
  3. COORDINATES AND PROFILE DATA GENERATED FROM THIS SURVEY.
  4. COORDINATES OBTAINED FROM GOOGLE EARTH/USGS TOPOGRAPHIC LINES.
  5. SEE LIST OF STATION POINTS, THE EAST BEACH INTERNAL.

**NOTE: ELEVATIONS BASED ON NGVD 29**

**PRELIMINARY PLAT**  
NOT FOR REGISTRATION, CONTRACTS, OR SALES

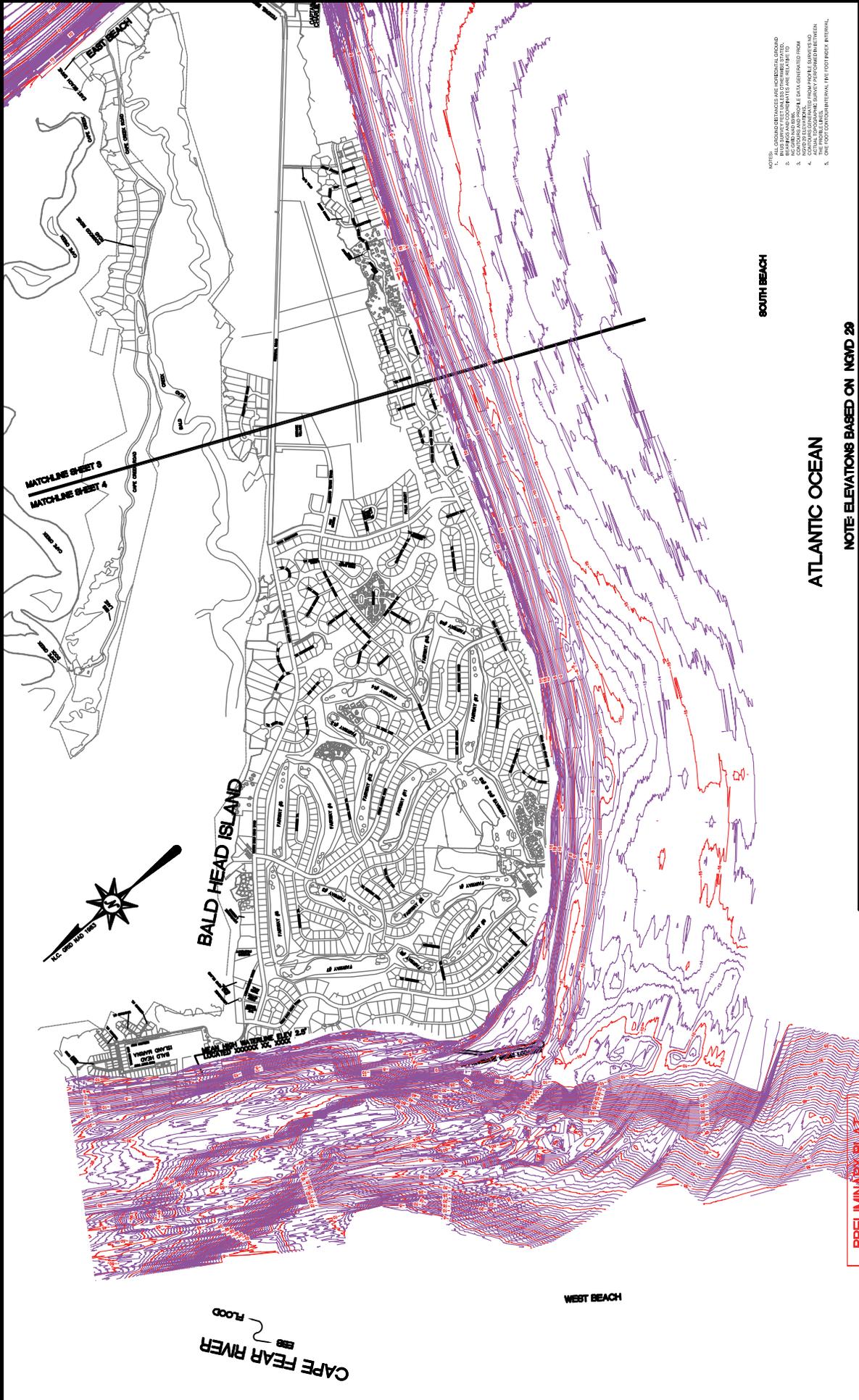


**MFKIM & CREED**  
WILMINGTON, NORTH CAROLINA 28401  
TEL: (910) 251-1048  
FAX: (910) 251-2323  
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

**BALD HEAD ISLAND  
BEACH MONITORING PROGRAM  
PROFILE SURVEY**  
FOR  
THE VILLAGE OF BALD HEAD ISLAND  
WILMINGTON COUNTY, NORTH CAROLINA  
MAY 23, 2017

JOB NUMBER:	0071-0008
CAD NUMBER:	WY0-20160008.DWG
DATE:	05/23/17
BY:	
CHECKED BY:	
CAD FILE:	
PLANT FILE:	
PRINTING NUMBER:	





- NOTES:
1. POINT DISTANCES ARE HORIZONTAL DISTANCE
  2. THIS SURVEY IS CONSIDERED TO BE A SURVEY OF PUBLIC INTEREST
  3. ALL DISTANCES ARE IN FEET UNLESS OTHERWISE NOTED
  4. POINTS ARE IDENTIFIED BY A NUMBER AND A LETTER GENERATED FROM THE SURVEY
  5. POINTS OF ELEVATION ARE FROM PROBLE SURVEYS AND ARE NOT TO BE USED FOR ANY OTHER PURPOSES
  6. THE SURVEY IS A CONTINUOUS SURVEY PERFORMED BETWEEN THE POINTS
  7. ONE FOOT CONTAINMENT INTERVAL, THE FOOT INDEX INTERNAL

JOB NUMBER:	2017-0008
DATE:	05/23/2017
CLIENT:	VILLAGE OF BALD HEAD ISLAND
PROJECT:	BEACH MONITORING PROGRAM
DATE:	05/23/2017
SCALE:	1" = 60'
PROJECT:	BEACH MONITORING PROGRAM
DATE:	05/23/2017
PROJECT:	BEACH MONITORING PROGRAM
DATE:	05/23/2017
PROJECT:	BEACH MONITORING PROGRAM
DATE:	05/23/2017

**BALD HEAD ISLAND  
BEACH MONITORING PROGRAM  
TOPOGRAPHIC SURVEY**

FOR  
THE VILLAGE OF BALD HEAD ISLAND  
WILMINGTON COUNTY, NORTH CAROLINA

MAY 23, 2017

**MFKIM & CREED**

243 NORTH FRONT STREET  
WILMINGTON, NORTH CAROLINA 28401  
TEL: (910) 254-1048  
FAX: (910) 254-3282  
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

**SCALE: 1" = 60'**

**PRELIMINARY PLAN**  
NOT FOR RECORD

NOTE: ELEVATIONS BASED ON NGVD 29

ATLANTIC OCEAN

SOUTH BEACH

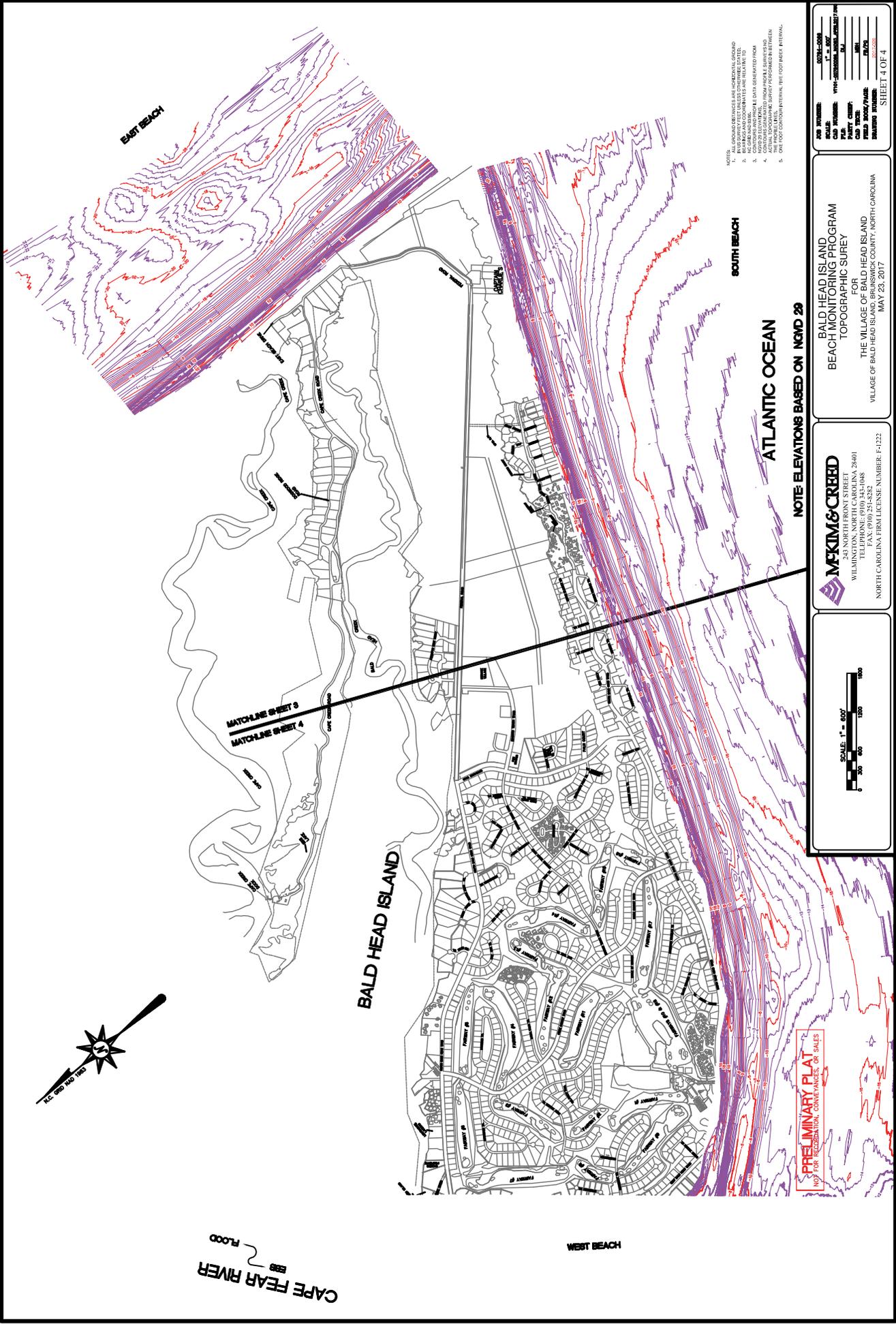
WEST BEACH

CAPE FEAR RIVER

MATCHLINE SHEET 3  
MATCHLINE SHEET 4



CAPE FEAR RIVER  
558  
FLOOD



- NOTES:
1. ALL SHOWN BEACH ELEVATIONS ARE BASED ON NGVD 29.
  2. ALL SHOWN BEACH ELEVATIONS ARE BASED ON NGVD 29.
  3. ALL SHOWN BEACH ELEVATIONS ARE BASED ON NGVD 29.
  4. ALL SHOWN BEACH ELEVATIONS ARE BASED ON NGVD 29.
  5. ALL SHOWN BEACH ELEVATIONS ARE BASED ON NGVD 29.

NOTE ELEVATIONS BASED ON NGVD 29

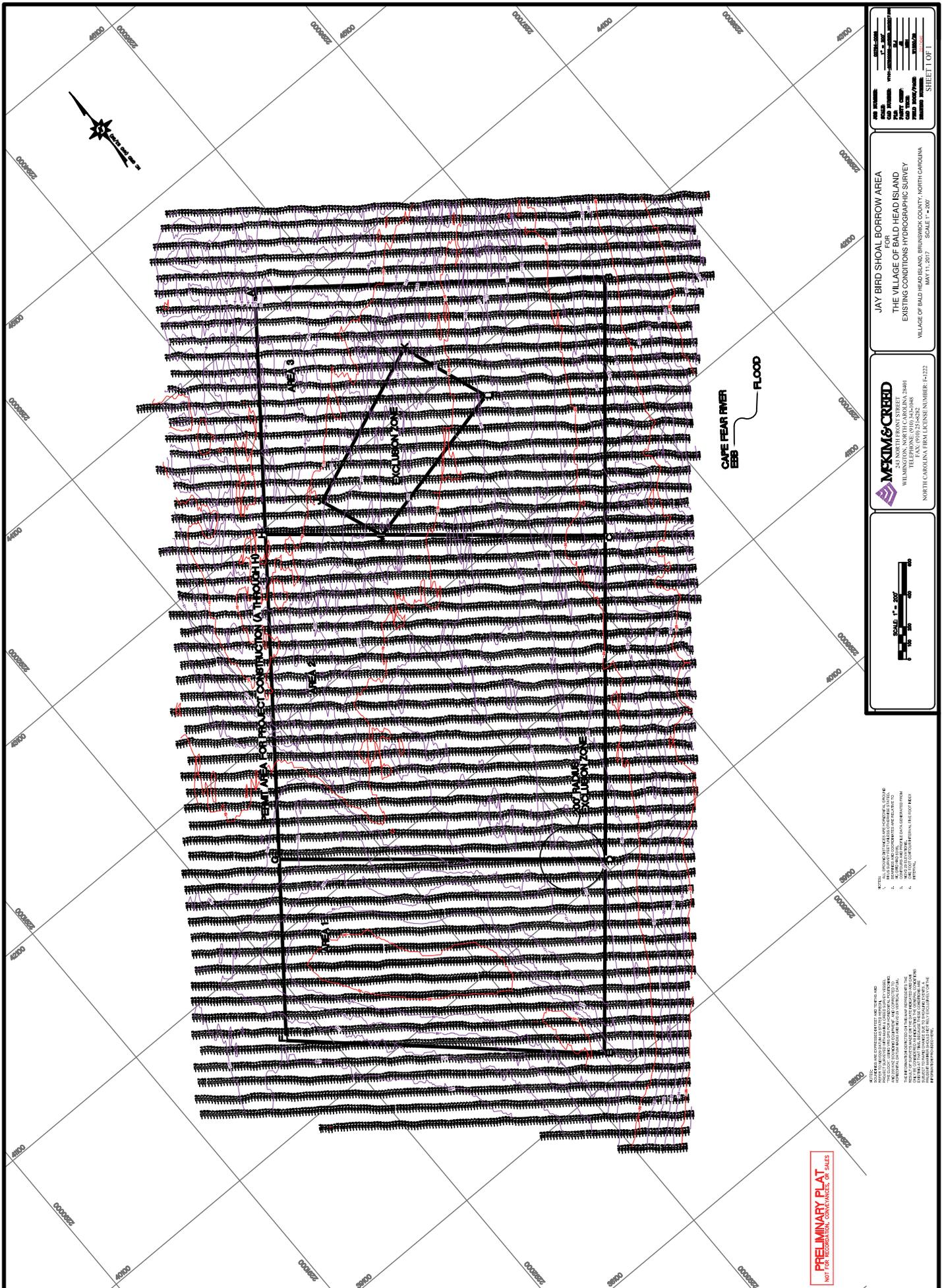
PRELIMINARY PLAN  
NOT FOR CONSTRUCTION, CONTRACTS, OR SALES



**MFKIM & CREED**  
 243 NORTH FRONT STREET  
 WILMINGTON, NORTH CAROLINA 28401  
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 FAX: (910) 251-8282  
 NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

**BALD HEAD ISLAND  
 BEACH MONITORING PROGRAM  
 TOPOGRAPHIC SURVEY**  
 FOR  
 THE VILLAGE OF BALD HEAD ISLAND  
 WILMINGTON, NORTH CAROLINA  
 VILLAGE OF BALD HEAD ISLAND, WILMINGTON, NORTH CAROLINA  
 MAY 23, 2017

JOB NUMBER:	10715-0008
DATE:	05/23/17
CLIENT:	WVH-20100000000000000000
DRAWN BY:	BJ
CHECKED BY:	BJ
DATE CHECKED:	05/23/17
SCALE:	AS SHOWN
PROJECT NUMBER:	10715-0008
DRAWING NUMBER:	10715-0008-001



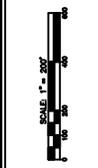
PERMIT AREA CONTAINS CONSTRUCTION INFORMATION

NOTES:  
1. THIS SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1968 AND THE REGULATIONS THEREUNDER.  
2. THIS SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1968 AND THE REGULATIONS THEREUNDER.  
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10. THIS SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1968 AND THE REGULATIONS THEREUNDER.

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**PRELIMINARY PLAN**  
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WILMINGTON, NORTH CAROLINA 28401  
TEL: 910.254.8232  
FAX: 910.254.8232  
NORTH CAROLINA P.E. LICENSE NUMBER: 14122



JAY BIRD SHOAL BORROW AREA  
FOR  
THE VILLAGE OF BALD HEAD ISLAND  
EXISTING CONDITIONS HYDROGRAPHIC SURVEY  
VILLAGE OF BALD HEAD ISLAND, BRANSWICK COUNTY, NORTH CAROLINA  
MAY 11, 2017 SCALE 1" = 200'

DATE	BY	REVISION
05/11/2017	MFK	FINAL
05/11/2017	MFK	ISSUED FOR BIDDING
05/11/2017	MFK	ISSUED FOR CONSTRUCTION
05/11/2017	MFK	ISSUED FOR RECORD

SHEET 1 OF 1