

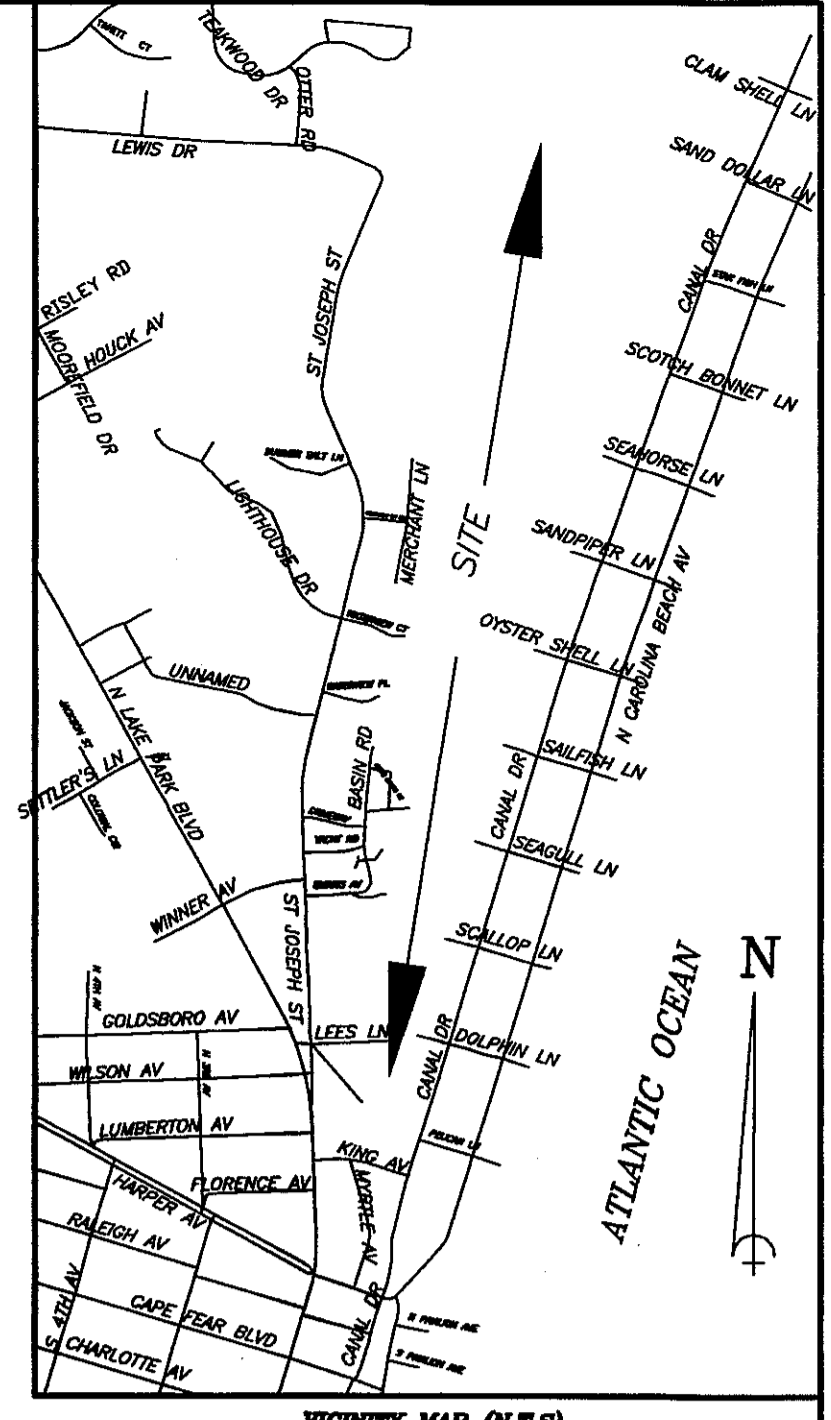
LEGEND:

- IRON PIPE (NEW OR EXISTING)
- IRON ROD (NEW OR EXISTING)
- CENTERLINE CONTROL MONUMENT
- PROPOSED PIERHEAD LINE
- - - OLD PIERHEAD LINE
- - - U. S. ARMY CORPS OF ENGINEERS SETBACK LINE
- - - CENTERLINE
- - - RIGHT OF WAY

NOTES:

1. THE COORDINATES OF THE U. S. ARMY CORPS OF ENGINEERS SETBACK LINE WERE OBTAINED FROM THE WILMINGTON DISTRICT WEBSITE.
2. CORNERS ARE IN DEEP WATER AND ARE NOT STAKED.
3. ALL DISTANCES ARE HORIZONTAL FIELD MEASUREMENTS.
4. AREA COMPUTED BY THE COORDINATE METHOD.
5. THIS MAP PREPARED UNDER AUTHORITY OF CAROLINA BEACH ORDINANCE 12-900.

ATTACHMENT 4: PIERHEAD LINE



LATITUDE, LONGITUDE & COORDINATE LIST FOR PROPOSED NEW PIERHEAD LINE

| LABEL | LATITUDE      | LONGITUDE     | NORTHING    | EASTING      |
|-------|---------------|---------------|-------------|--------------|
| AA    | 34°03'25.979" | 77°53'26.103" | 113895.1102 | 2336144.0082 |
| AB    | 34°03'24.841" | 77°53'24.810" | 113590.5000 | 2336169.8000 |
| AC    | 34°03'24.383" | 77°53'24.728" | 113535.1000 | 2335281.5000 |
| AD    | 34°03'15.611" | 77°53'21.244" | 112650.6000 | 2336480.4000 |
| AE    | 34°03'03.385" | 77°53'25.208" | 111410.9000 | 2336183.1000 |
| AF    | 34°03'03.386" | 77°53'26.303" | 111408.5000 | 2336152.7000 |
| AG    | 34°03'03.398" | 77°53'26.308" | 111405.1000 | 2336152.3000 |
| AH    | 34°02'38.694" | 77°53'26.040" | 108913.1000 | 2336118.6000 |
| AI    | 34°02'18.854" | 77°53'32.687" | 108700.0000 | 2335563.6000 |
| AJ    | 34°02'18.849" | 77°53'32.690" | 108699.1000 | 2335563.6000 |
| AK    | 34°02'13.579" | 77°53'33.523" | 106368.1000 | 2335517.2000 |
| AL    | 34°02'11.895" | 77°53'34.173" | 106197.3000 | 2335464.4000 |
| AM    | 34°02'11.895" | 77°53'34.184" | 106193.3000 | 2335463.5000 |
| AN    | 34°02'11.814" | 77°53'34.187" | 106189.1000 | 2335463.5000 |
| AO    | 34°02'11.772" | 77°53'34.180" | 106184.9000 | 2335463.5000 |
| AP    | 34°02'11.233" | 77°53'34.183" | 106180.9000 | 2335463.5000 |
| AQ    | 34°02'11.686" | 77°53'34.183" | 106177.2000 | 2335467.1000 |
| AR    | 34°02'11.663" | 77°53'34.113" | 106173.9000 | 2335469.7000 |
| AS    | 34°02'11.619" | 77°53'34.078" | 106171.1000 | 2335472.8000 |
| AT    | 34°02'11.613" | 77°53'34.035" | 106168.9000 | 2335476.3000 |
| AU    | 34°02'11.597" | 77°53'33.989" | 106167.3000 | 2335480.2000 |
| AV    | 34°02'11.603" | 77°53'32.518" | 106128.9000 | 2335604.4000 |
| AW    | 34°02'11.595" | 77°53'32.435" | 106128.1000 | 2335604.1000 |
| AX    | 34°02'11.591" | 77°53'32.431" | 106127.8000 | 2335611.5000 |
| AY    | 34°02'11.195" | 77°53'32.385" | 106128.2000 | 2335615.6000 |
| AZ    | 34°02'11.203" | 77°53'32.343" | 106128.1000 | 2335619.2000 |
| BA    | 34°02'11.618" | 77°53'32.301" | 106130.6000 | 2335622.7000 |
| BB    | 34°02'11.237" | 77°53'32.263" | 106132.6000 | 2335625.9000 |
| BC    | 34°02'11.237" | 77°53'32.229" | 106135.1000 | 2335628.7000 |
| BD    | 34°02'11.290" | 77°53'32.200" | 106136.0000 | 2335631.1000 |
| BE    | 34°02'11.322" | 77°53'32.177" | 106141.2000 | 2335633.0000 |
| BF    | 34°02'11.356" | 77°53'32.160" | 106144.7000 | 2335634.4000 |
| BG    | 34°02'13.040" | 77°53'31.589" | 106315.6000 | 2335687.3000 |
| BH    | 34°02'13.051" | 77°53'31.505" | 106316.7000 | 2335687.6000 |
| BI    | 34°02'13.080" | 77°53'31.456" | 106318.6000 | 2335688.3000 |
| BJ    | 34°02'13.108" | 77°53'31.481" | 106322.4000 | 2335688.7000 |
| BK    | 34°02'13.611" | 77°53'31.491" | 106325.8000 | 2335688.7000 |
| BL    | 34°02'16.583" | 77°53'31.207" | 106672.0000 | 2335708.7000 |
| BM    | 34°02'23.804" | 77°53'29.094" | 107375.8409 | 2335878.7529 |
| BN    | 34°02'37.449" | 77°53'23.724" | 108785.1199 | 2336310.7257 |
| BO    | 34°02'57.089" | 77°53'18.039" | 110782.0433 | 2337023.5124 |
| BP    | 34°03'10.350" | 77°53'08.379" | 112130.9811 | 2337968.8882 |
| BQ    | 34°03'13.760" | 77°53'18.192" | 112468.3618 | 2338719.4428 |
| BR    | 34°03'27.632" | 77°53'21.706" | 113804.7472 | 2338428.6482 |

CALL TABLE

| Course  | Bearing       | Distance |
|---------|---------------|----------|
| AA - AB | S 60°00'00" E | 1.40'    |
| AB - AC | S 08°07'48" W | 2.83'    |
| AC - AD | S 15°15'18" W | 2.98'    |
| AD - AE | S 17°11'37" W | 178.90'  |
| AE - AF | S 30°41'59" W | 3.72'    |
| AF - AG | S 36°29'25" W | 3.78'    |
| AG - AH | S 57°29'41" W | 3.77'    |
| AH - AI | S 65°59'28" W | 3.61'    |
| AI - AJ | S 65°59'28" W | 3.61'    |
| AJ - AK | N 72°42'58" W | 3.79'    |
| AK - AL | N 72°49'10" W | 130.00'  |
| AL - AM | N 67°41'58" W | 4.22'    |
| AM - AN | N 57°50'52" W | 4.13'    |
| AN - AO | N 47°54'39" W | 4.18'    |
| AO - AP | N 37°50'15" W | 4.20'    |
| AP - AQ | N 27°10'52" W | 4.16'    |
| AQ - AR | N 18°00'15" W | 2.21'    |
| AR - AS | N 08°07'48" W | 4.20'    |
| AS - AT | N 02°43'58" E | 4.20'    |
| AT - AU | N 12°40'49" E | 4.10'    |
| AU - AV | N 16°14'44" E | 0.92'    |
| AV - AW | N 08°00'32" E | 3.82'    |
| AW - AX | N 11°15'58" E | 2.08'    |
| AX - AY | N 58°51'24" W | 107.14'  |
| AY - AZ | N 13°51'00" W | 107.74'  |

POINT "AO"  
NAD 83(NSRS 2007) COORDINATES:  
N = 110,798.5202  
E = 2,336,315.7027

POINT "PP"  
NAD 83(NSRS 2007) COORDINATES:  
N = 110,782.02891  
E = 2,337,023.5610

CONTROL CORNER  
EX. CONCRETE MONUMENT  
NAD 83(NSRS 2007) COORDINATES:  
N = 110,634.3825  
E = 2,337,484.7493  
C.S.F. = 0.9999034

CONTROL CORNER  
EX. CONCRETE MONUMENT  
NAD 83(NSRS 2007) COORDINATES:  
N = 110,648.2331  
E = 2,336,782.8486  
C.S.F. = 0.9999015

CONTROL CORNER  
EX. CONCRETE MONUMENT  
NAD 83(NSRS 2007) COORDINATES:  
N = 107,142.6340  
E = 2,336,319.7382  
C.S.F. = 0.9999015

POINTS ALONG PROPOSED CAROLINA BEACH PIERHEAD LINE CONTINUE FROM POINT "L" TO POINT "HH". SEE CALL TABLE FOR BEARINGS AND DISTANCE.

POINTS ALONG PROPOSED CAROLINA BEACH PIERHEAD LINE CONTINUE FROM POINT "GG" TO POINT "W". SEE CALL TABLE FOR BEARINGS AND DISTANCE.

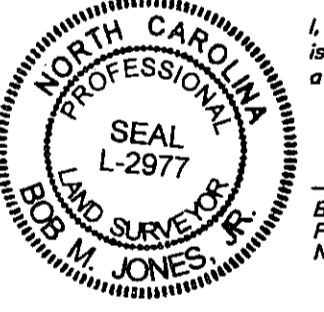
MAP OF PROPOSED REVISIONS TO THE CAROLINA BEACH PIERHEAD LINE FOR THE TOWN OF CAROLINA BEACH  
FEDERAL POINT TOWNSHIP - NEW HANOVER COUNTY - NORTH CAROLINA  
SCALE: 1" = 300'  
DATE: AUGUST 28, 2012



STATE OF NORTH CAROLINA, NEW HANOVER COUNTY  
I, Bob M. Jones, Jr., certify that this plot was drawn under my supervision from an actual survey made under my supervision from information found in the New Hanover Co. Registry, as noted herein, that the ratio of precision as calculated is 1:10000+, that the boundaries not surveyed are clearly indicated and that this map was prepared in accordance with G.S. 42-33 as amended.  
Witness my hand and seal this 22<sup>nd</sup> day of October, 2012.



I, Bob M. Jones, Jr., Professional Land Surveyor No. L-2977, certify that this plot is of a survey of another category, such as the recombinance of existing parcels, a court-ordered survey or other exception to the definition of subdivision.



CERTIFICATE OF APPROVAL BY THE PLANNING AND DEVELOPMENT DEPARTMENT  
The Carolina Beach Planning and Development Department hereby approves the Final Plot for a portion of the Pierhead Line in the Myrtle Grave Sound area.  
10-23-2012  
Date  
E. H. Rain  
Director

STATE OF NORTH CAROLINA, NEW HANOVER COUNTY  
I, SAM BURGESS, Review Officer of NEW HANOVER County, certify that the map or plot to which this certification is affixed meets all statutory requirements for recording.  
S. Burgess  
Review Officer  
10-25-12  
Date

STATE OF NORTH CAROLINA, NEW HANOVER COUNTY  
Filed for registration on the 25<sup>th</sup> day of Oct., 2012, at 1:11 (P.M.) and duly recorded in Map Book 57, Page 169.  
Instr. # 2012037042  
Register of Deeds  
Dorothy H. Macneish  
By