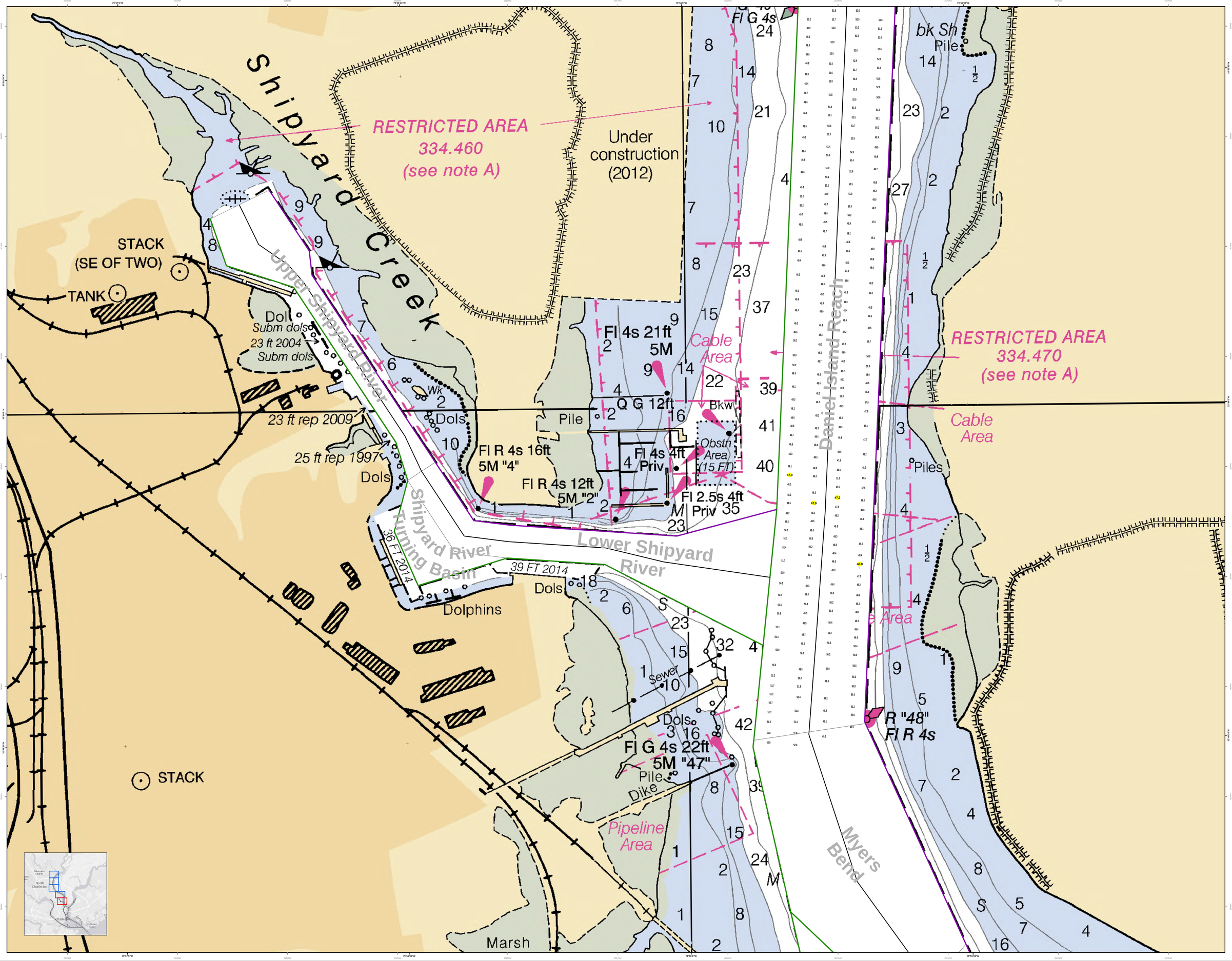



U.S. Army Corps of Engineers
Charleston District

Production Notes:
1. Depths are referenced to the Mean Lower Low Water datum.
2. Soundings are in feet and tenths.
3. Soundings are in feet and tenths.
4. Shoreline is Mean Lower Low Water (MLLW).
Author: Jeffrey Wagner
Map service 10.0.4

Legend
Soundings
Sounding may cover several features or be displaced for purpose of clarity
Reference Features
Structure
Wreck-Submerged

Depth Tint
0 to 5.0
5.1 to 8.0
8.1 to 10.0
10.1 to 12.0
Greater than 12.0

USCG Buoys
Green
Red
White
Fixed Navigation Channel
Left TOC Line
Right TOC Line
True Centerline
USCG Light
Coast Guard Route

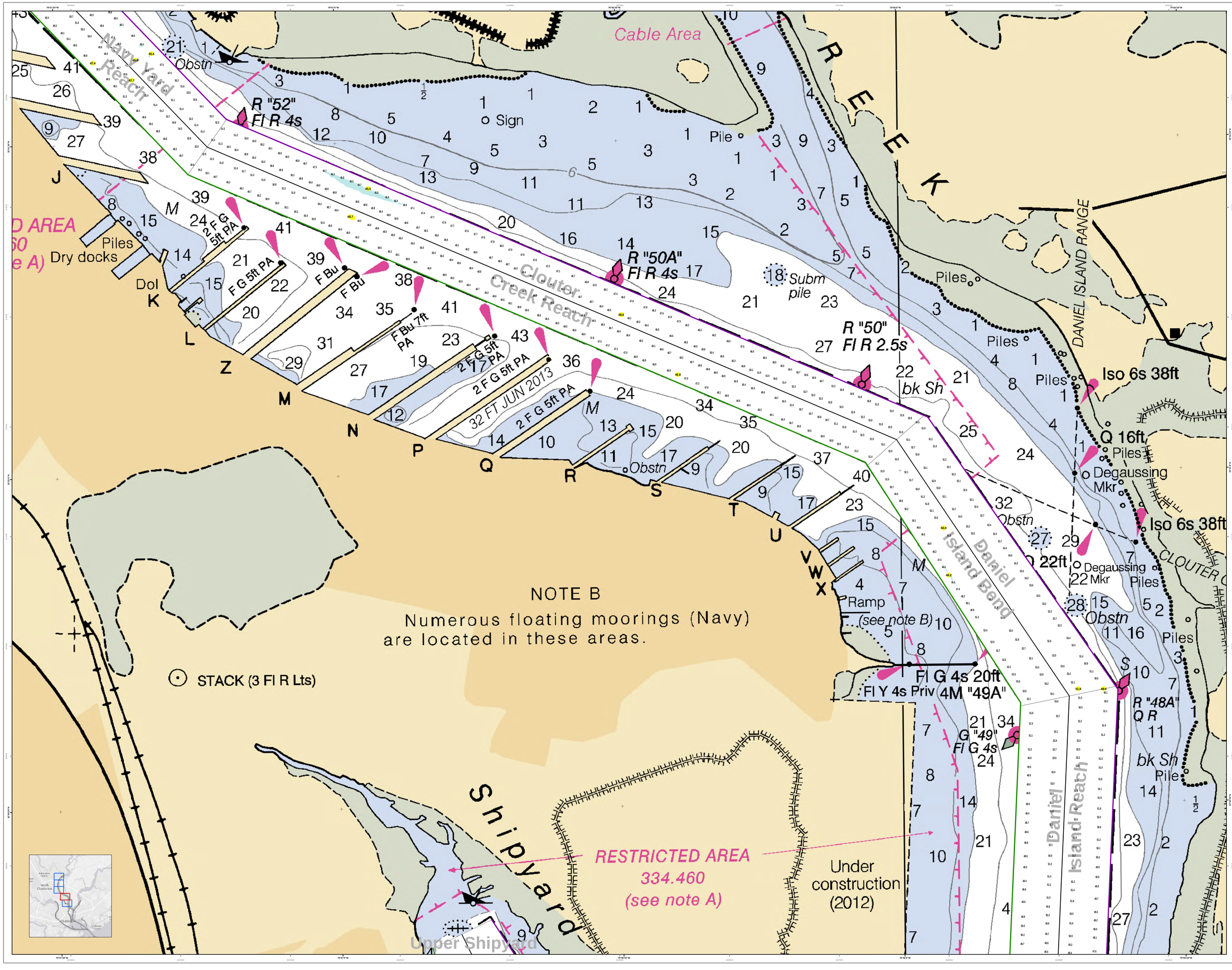
| | | | |
|---|---|---|---|
| Designed By: eHydro Software v3.82 | | Survey Date: 17 Jul 2015 | Production Date: 10 Aug 2015 |
| Reviewed By: J. Wagner | Assign Scale: 1:1,000 | Project Reference Number: CESAC-PRO-2010 | |
| Reference Scale: 1 inch = 250 feet | | Survey Type: Single-beam Condition Survey | |
| Projection: NAD 1983 StatePlane South Carolina FIPS 3900 Feet | | | |

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHARLESTON, SOUTH CAROLINA

SPATIAL DATA BRANCH
69A HAGOOD AVE
CHARLESTON, SC 29403
CESAC-GIS@USACE.ARMY.MIL

**Charleston Upper Harbor Channel Survey**
The information depicted on this map represents the results of surveys made on the dates indicated and can only be considered as accurate for general conditions existing at that time.
Concluded on: **17 July 2015**
**Charleston, South Carolina**

SHEET REFERENCE NUMBER
C002
SHEET 1 OF 5




U.S. Army Corps of Engineers
Charleston District

**Production Notes:**
1. Soundings are referenced to the Charleston Datum (MLLW) and are in feet and tenths.
2. Soundings are in feet and tenths.
3. Soundings are in Mean Lower Low Water (MLLW)
4. Aids to Navigation are USCG Aids to Navigation 1524.4

N

0 125 250 500 750 1000 FEET

**Depth Tint**
- 0 to 3.0
- 3.1 to 6.0
- 6.1 to 9.0
- 9.1 to 12.0
- 12.1 to 21.0
- Greater than 21.0

**USCG Buoys**
- Green
- Red
- Red
- White

**Fixed Navigation Channel**
- Left TOC Line
- Right TOC Line
- True Centerline

**USCG Buoy**
- Green
- Red
- Red
- White
- Yellow
- USCG Light
- Coast Guard Racon

**Legend**
**Selected Sounding**
- Sounding
- Soundings may cover several survey points, depending on each quarter area.

**Other Features**
- Wreck-Submerged

In no event shall the U.S. Army Corps of Engineers, Charleston District Office, Special Data Branch be liable for direct, indirect, incidental, special, consequential or exemplary damages, including, but not limited to, loss of anticipated profits or benefits arising out of the use of this map.

These data sets have been developed from the best available source data. No guarantee is made as to the accuracy of these datasets are accurate and reliable, errors and outdated conditions may exist in the data sets. Mariners should not rely solely on information reflected in this data sources.

**These charts are not intended to be used for navigation. Mariners are encouraged to use all prudent safety measures.**

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHARLESTON, SOUTH CAROLINA

SPATIAL DATA BRANCH
69A HAGOOD AVE
CHARLESTON, SC 29403

CESAC-GIS@USACE.ARMY.MIL

Designed By: ehydro Software v3.82
Reviewed By: Fabricio Sales
Project Scale: 1:1,000

Reference Scale: 1 inch = 250 feet

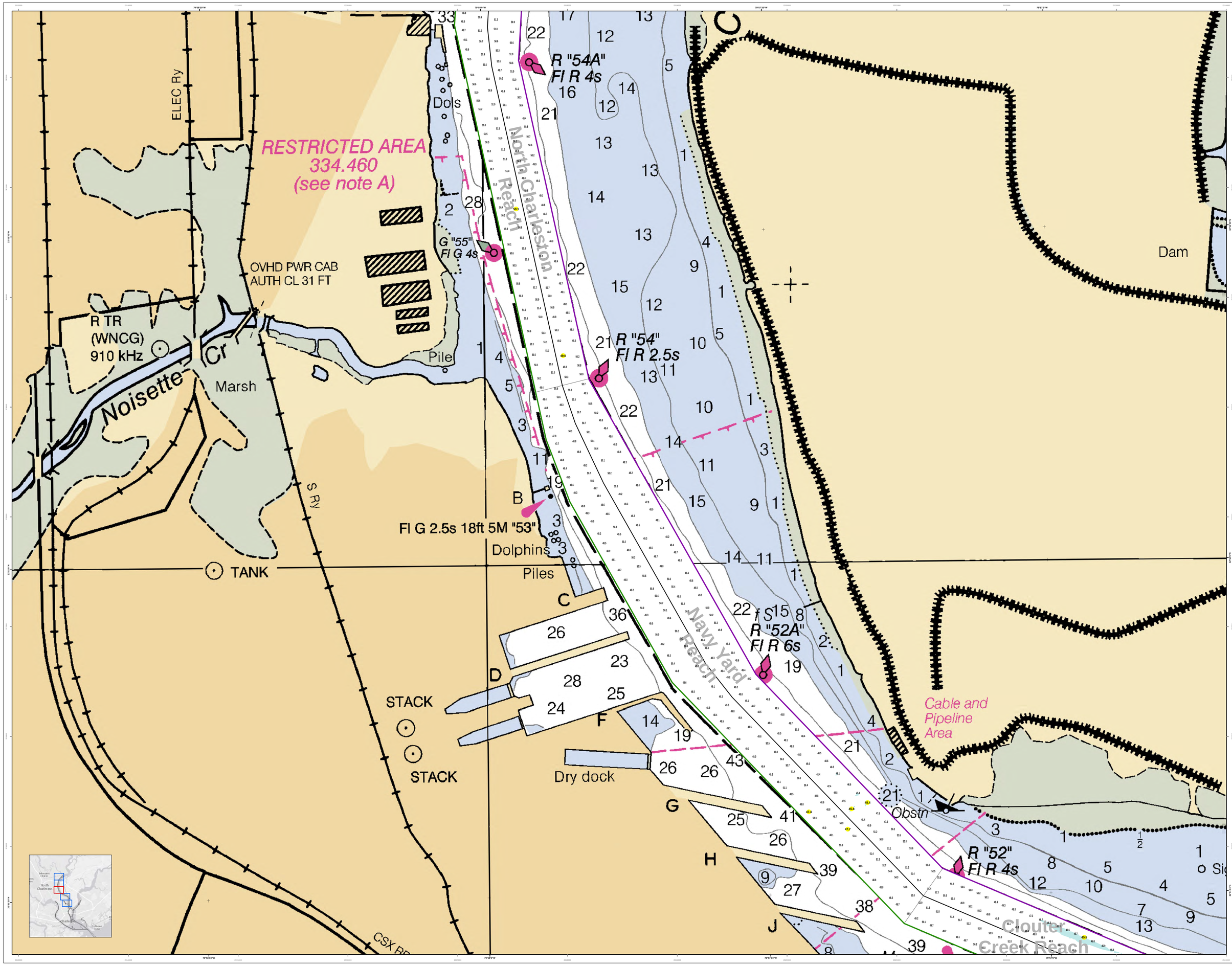
Projection: NAD 1983 StatePlane South Carolina FIPS 3900 Feet

Survey Date: 17 Jul 2015
Survey Type: Single-beam Condition Survey

Production Date: 10 Aug 2015
Project Reference Number: CHA-15-0010

**Charleston Upper Harbor Channel Survey**
The information depicted on this map represents the results of surveys made on the dates indicated and can only represent the bottom conditions existing at that time.
Concluded on: **17 July 2015**
**Charleston, South Carolina**

SHEET REFERENCE NUMBER
C002
SHEET 2 OF 5




U.S. Army Corps of Engineers
Charleston District

**Production Notes:**

1. Depths and heights-to-detect are in feet.
2. Contours for planning purposes only. Depth contours are derived from survey conducted by the Charleston District, April 2015.
3. Soundings are in feet and tenths. Datum is Mean Lower Low Water (MLLW).

Author: dbrown
Map Version: 15124
Map Service: 15124

Depth to Feet
- 0.0 to 4 and 20.0
- 20.1 to 40.0
- 40.1 to 60.0
- 60.1 to 80.0
- Greater than 80.0

USCG Beacon
- Green
- Red
- White

Fixed Navigation Channel
- Left TOC Line
- Right TOC Line
- True Centerline

Legend
Shallow Sounding
- Sounding
- Sounding may cover several features, see Sounding per each location area.

Obstruction
- Obstruction
- Wreck-Submerged

USCG Buoy
- Green
- Red
- White

USCG Light
- Yellow
- White
- Yellow

Coast Guard Racon

In no event shall the U.S. Army Corps of Engineers, Charleston District Office, Spatial Data Branch be liable for direct, indirect, incidental, special, exemplary, or consequential damages, but not limited to, loss of anticipated profits or benefits arising out of use of or reliance on this map.

These data sets have been developed from the best available source data. No warranty is made as to the accuracy, reliability, or completeness of these data. Users should verify that the data is current and that it is suitable for their own purposes. Conclusions drawn from or decisions made based on information reflected in this data sources are the responsibility of the user.

**This chart is not intended to be used for navigation.**

**Mariners are encouraged to use all prudent safety measures.**

| | | |
|---|---|---|
| Designed By: ethydro Software v3.82 | Survey Date: 17 Jul 2015 | Production Date: 10 Aug 2015 |
| Reviewed By: J. Wren | Associate Scale: 1:12,000 | Project Number: Project DHPAA-2015 |
| Reference Scale: 1 inch = 250 feet | | Survey Type: Single-beam Condition Survey |
| Projection: NAD 1983 StatePlane South Carolina FIPS 3900 Feet | | |

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHARLESTON, SOUTH CAROLINA

SPATIAL DATA BRANCH
69A HAGOOD AVE
CHARLESTON, SC 29403

CESAC-GIS@USACE.ARMY.MIL

**Charleston Upper Harbor Channel Survey**

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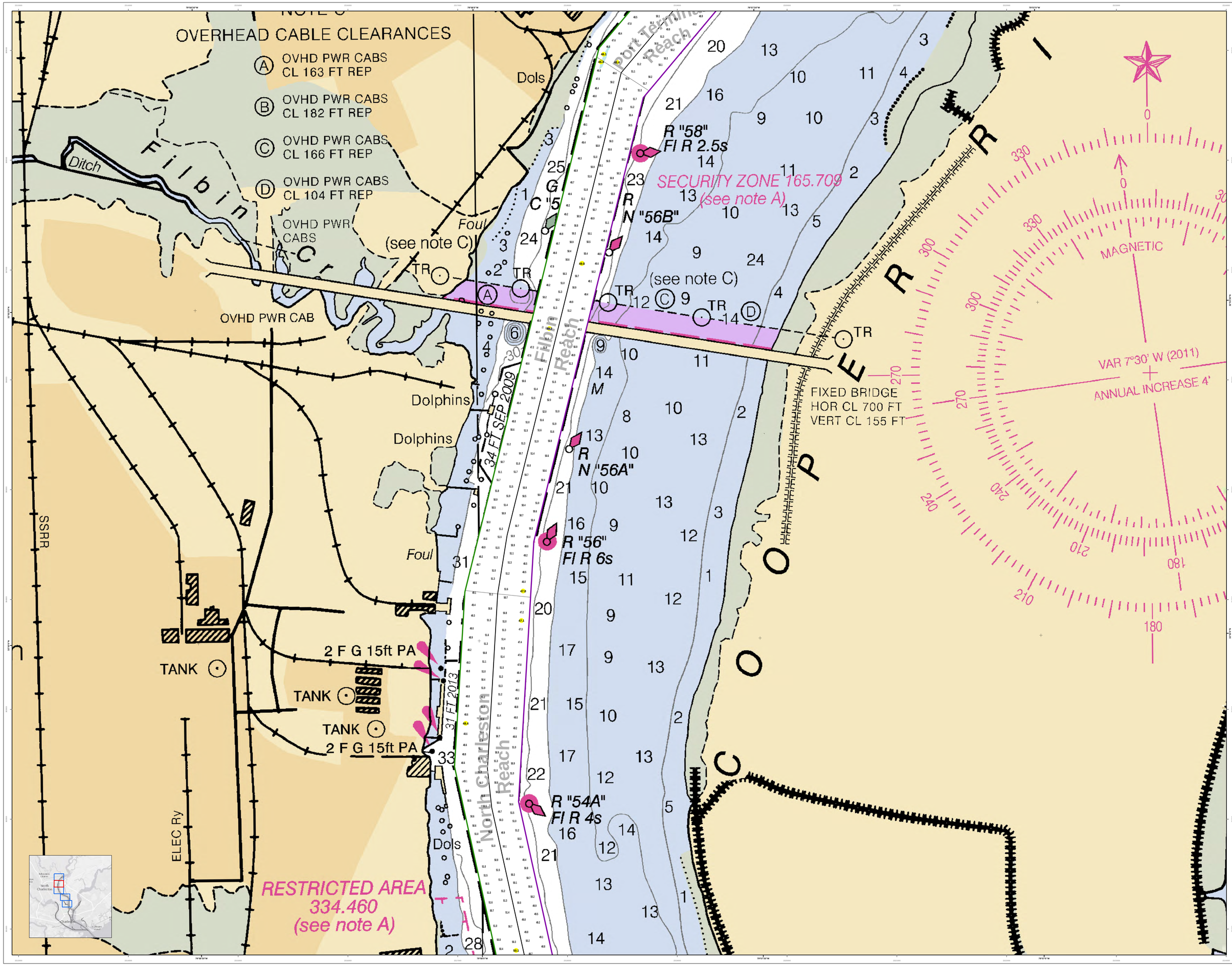
Concluded on: **17 July 2015**

**Charleston, South Carolina**

SHEET REFERENCE NUMBER

C002

SHEET 3 OF 5




U.S. Army Corps of Engineers
Charleston District

**Production Notes:**
1. Depths are referenced to the Protractor for plotting purposes only.
2. Hydrographic Survey Data was taken from surveys conducted by the Charleston District, Corps of Engineers.
3. Soundings are in feet and tenths.
4. Coordinate System: North American Datum 1983 (NAD83) Lambert Conformal Conic, Lambert Lower Line Western Hemisphere, Units: Meters, Horizontal Datum: NAD83, Vertical Datum: Mean High Water 1924

**Legend**
Standard Sounding
Sounding
Sounding may cover several soundings, depth shown is per nearby sounding area.
Obstruction
Obstruction
Wreck-Submerged
Wreck-Submerged

USCG Buoys
Green
Black
Red
White
Yellow
Orange
Lateral Marks
Port
Starboard
Preferred Channel
Port Hand
Starboard Hand
Right TOC Line
Left TOC Line
Beacon
True Centerline
Coast Guard Racon

Depth Tint
0 to 5.0
5.1 to 10.0
10.1 to 15.0
15.1 to 20.0
Greater than 20.0

Survey Date: 17 Jul 2015
Production Date: 10 Aug 2015
Designed By: eHydro Software v3.82
Reviewed By: Jacobus Scale
Project Number: 2015-0004
Reviewed By: J. Weis
Project Number: 2015-0004
Reference Scale: 1 inch = 250 feet
Survey Type: Single-beam Condition Survey
Projection: NAD 1983 StatePlane South Carolina FIPS 3900 Feet

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHARLESTON, SOUTH CAROLINA

SPATIAL DATA BRANCH
69A HAGOOD AVE
CHARLESTON, SC 29403
CESAC-GIS@USACE.ARMY.MIL

**Charleston Upper Harbor Channel Survey**
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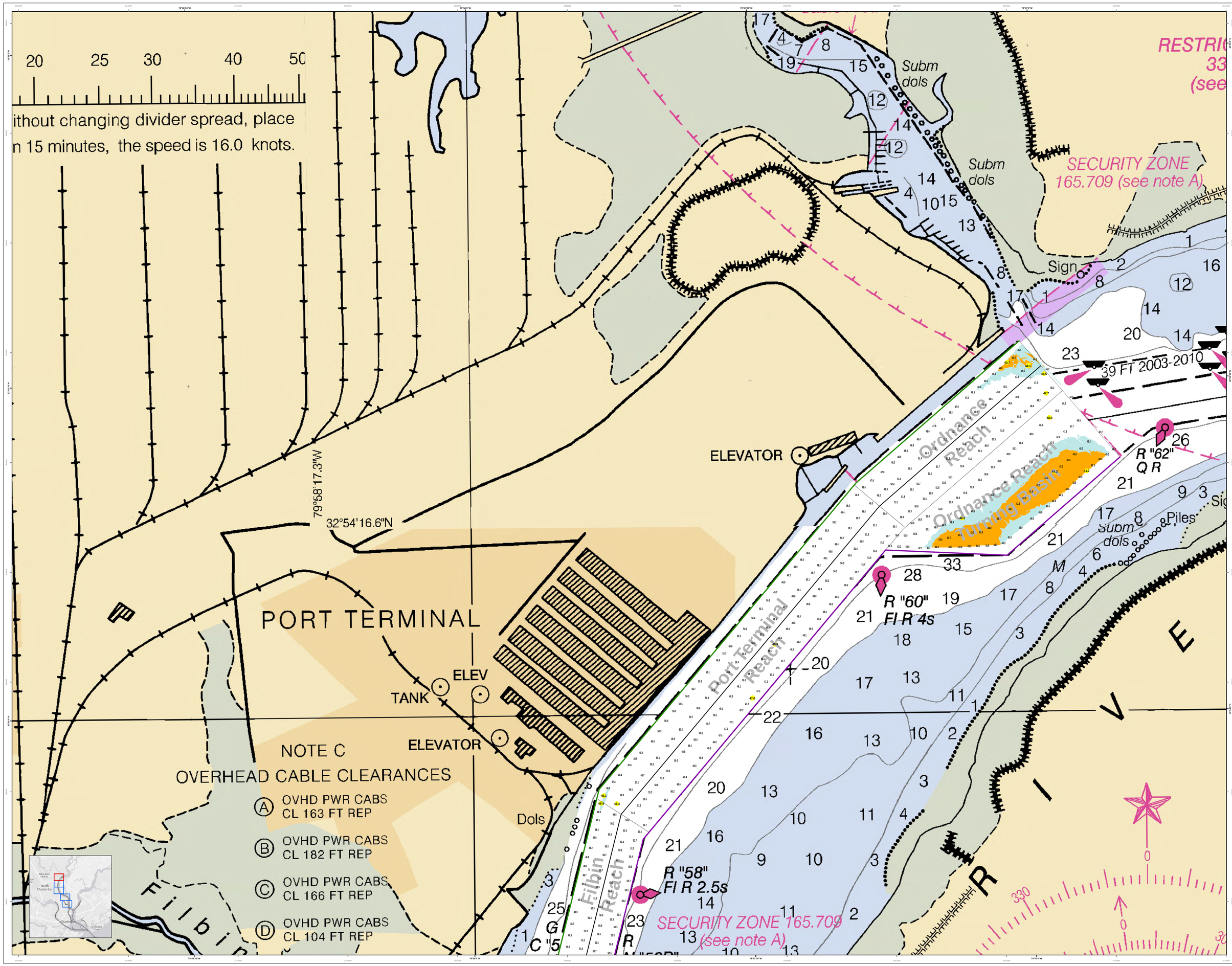
Concluded on: **17 July 2015**
**Charleston, South Carolina**

SHEET REFERENCE NUMBER
C002
SHEET 4 OF 5




**Charleston Upper Harbor Channel Survey**
The information depicted on this map represents the results of surveys made on the dates indicated and can only be warranted to represent the general conditions existing at that time.
Conducted on: **17 July 2015**
**Charleston, South Carolina**

| | | | |
|---|---|---|---|
| U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS CHARLESTON, SOUTH CAROLINA | Designed By: eHydro Software v3.82 | Survey Date: 17 Jul 2015 | Production Date: 10 Aug 2015 |
| | Reviewed By: J. Weber | Approx. Scale: 1:4,000 | Project Centerline Number: CHA-2015-0043 |
| SPATIAL DATA BRANCH 69A HAGOOD AVE. CHARLESTON, SC 29403 | Reference Scale: 1 inch = 250 feet | Survey Type: Single-beam Condition Survey | |
| CESAC-GIS@USACE.ARMY.MIL | Projection: NAD 1983 StatePlane South Carolina FIPS 3900 Feet | | |

SHEET REFERENCE NUMBER
C002
SHEET 5 OF 5