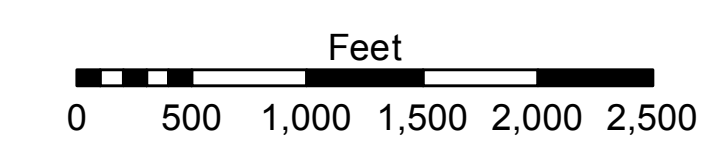
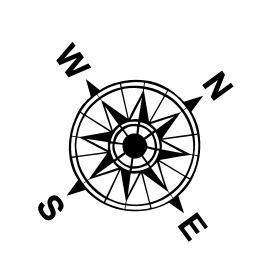


| LEGEND | |
|----------------------------------|-------------------------|
| --- Federal Navigation Channel | ● Cable Area |
| — Federal Navigation Center Line | ■ Placement Area |
| — As-built Pipeline/Cable | □ Anchorage Area |
| Unconfirmed Pipeline/Cable | ⊗ Obstruction Point |
| — Project Depth Contour | ✈ Wrecks-Submerged |
| □ Borrow Area | ★ Beacon, General |
| ● Shoalest Sounding** | ◆ Red Navigation Buoy |
| ★ Beacon, General | ◆ Green Navigation Buoy |
| ◆ Red Navigation Buoy | ■ 0' and above |
| ◆ Green Navigation Buoy | ■ 0' to -5' |
| | ■ -5' to -10' |
| | ■ -10' to -20' |
| | ■ -20' to -30' |
| | ■ -30' to -35' |
| | ■ -35' to -40' |
| | ■ -40' to -45' |
| | ■ -45' and below |



LWRP: 1.8
 Gage Reading: BR:23.5 D:14.3 USED:18.2 NAVD
 Sea Conditions: CALM
 Vessel Name: M/VLAFOURCHE
 Survey Type: CS
 Sounding Frequency***: HIGH

NOTES:
 Horizontal Coordinate System:
 North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Louisiana South Zone. Distance units in U.S. Survey Feet.
 Vertical Datum:
 Soundings are shown in feet and indicate depths below Low Water Reference Plane 2007 (NAVD).
 Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.
 The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE crew.
 2015 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.
 Reference is N.O.A. Navigation Chart No. 11370.
 ** Shoalest Sounding per Quarter per Reach.
 *** High frequency (200 kHz) survey data represents the first signal return at a sounding location and will include suspended solids, known as "fluff", if present. Low frequency (20 kHz) survey data normally penetrates through this "fluff" layer to depict elevations of consolidated bottom material. Low frequency accuracies may vary depending on channel conditions and fathometer settings.



DISCLAIMER:
 The data represented on this map represents the results of a survey conducted by the U.S. Army Corps of Engineers. The data is provided for informational purposes only and is not intended for use in any other manner. The user is responsible for the accuracy, reliability, and completeness of the data. The user is advised to verify the data for their specific purpose. The user is advised to verify the data for their specific purpose. The user is advised to verify the data for their specific purpose.

| | |
|--------------|---------------------|
| Submitted: | Surveyed By: JH/SPS |
| Recommended: | Plotted By: BD |
| Approved: | Checked By: AC |

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

**MISSISSIPPI RIVER - B.R. TO GULF
 BAYOU GOULA CROSSING
 MD_13_GOUX_20200708_CS
 08 July 2020**

**Sheet Reference Number
 13 of 97**

Revision Number:
 4.1-20191105