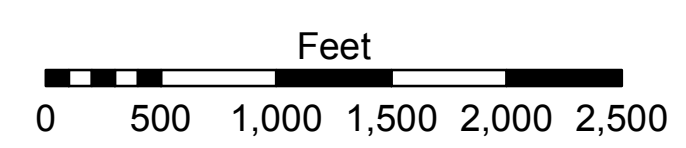
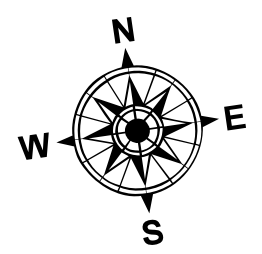


LEGEND

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



LWRP: 1.9
 Gage Reading: BR:18.5 D:10.8 USED:15.0 NGVD
 Sea Conditions: CALM
 Vessel Name: M/V LAFOURCHE
 Survey Type: CONDITION
 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 (NGVD).

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.

2010 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.



DISTRIBUTION LIABILITY: The data represents the results of data collection/processing for a specific US Army Corps of Engineers project. It is only valid for its intended use, control, time and accuracy specifications. The user is responsible for the results of the application of the data for other than its intended purpose.

DATA CONSTRAINTS: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to encroaching vegetation, shifting sandbars, and other channel changes. The Army Corps of Engineers accepts no responsibility for changes in the hydrographic conditions when developed after the date of the survey. Product maintainers should not rely solely upon this information.

Submitted:	Surveyed By: DS/PS
Recommended: Chief, Survey Section	Plotted By: BTD
Approved: Chief, Waterways Maintenance Section	Checked By: AC

MISSISSIPPI RIVER - B. R. TO GULF
GRANADA RECON
MR_10_GRA_20160823
23 August 2016

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