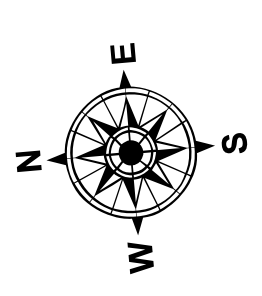
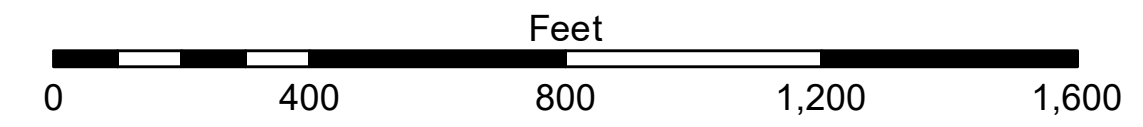


LEGEND		
	Federal Navigation Channel	
	Federal Navigation Center Line	
	As-built Pipeline/Cable	
	Unconfirmed Pipeline/Cable	
	Project Depth Contour	
	Cable Area	
	Placement Area	
	Anchorage Area	
	Obstruction Point	
	Wrecks-Submerged	
	Fluff Thickness (feet)*	
	Shoalest Sounding**	
	Beacon, General	
	Red Navigation Buoy	
	Green Navigation Buoy	



Gage Reading: DM 72 VRN: 2.10 MLLW AVG  
 Sea Conditions: CHOP  
 Vessel Name: MV TECHE  
 Survey Type: CONDITION  
 Sounding Frequency\*\*\*: LOW



**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 Mean Lower Low Water Datum (MLLW). Datum Relationships for gage 73615 as of December 2013: 0.0' NAVD83 (2009.55) = 1.1' MLLW = 2.1' MLG or 0.0' MLLW = 1.0' MLG  
 Distances on the Calcasieu River are shown at 1 mile intervals.  
 The location of navigation aids are based on and provided by the U.S. Coast Guard and USACE survey crews.  
 2022 Aerial Photography data source: PAR LLC  
 Reference is N.O.A.A. Navigation Chart No. 11339.  
 \* Difference between high and low frequency elevations where greater than 1.0'.  
 \*\* 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.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: SP-JS
Recommended:	Plotted By: JH
Approved:	Checked By: JH
Chief, Waterways Maintenance Section	

**CALCASIEU SHIP CHANNEL  
 LOWER SHEET 20  
 CR\_20\_LWR\_20240904\_CS  
 04 September 2024**

**Sheet Reference Number  
 20 of 53**

Revision Number: 4.2-20240920



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