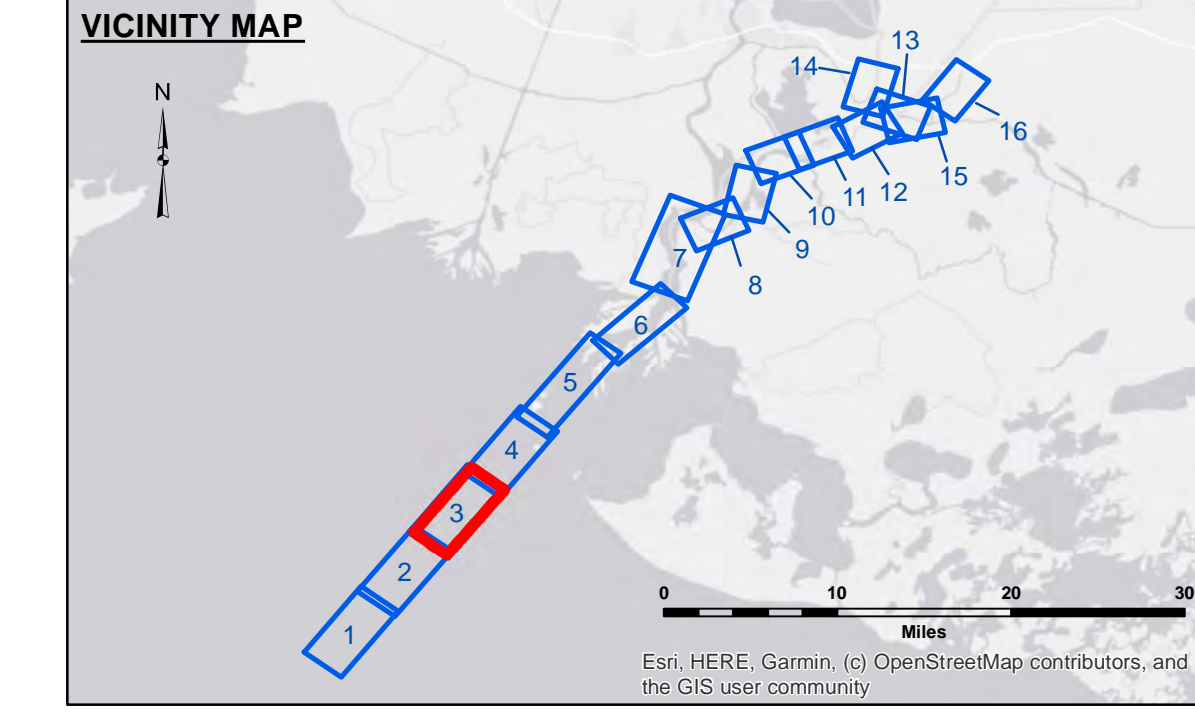
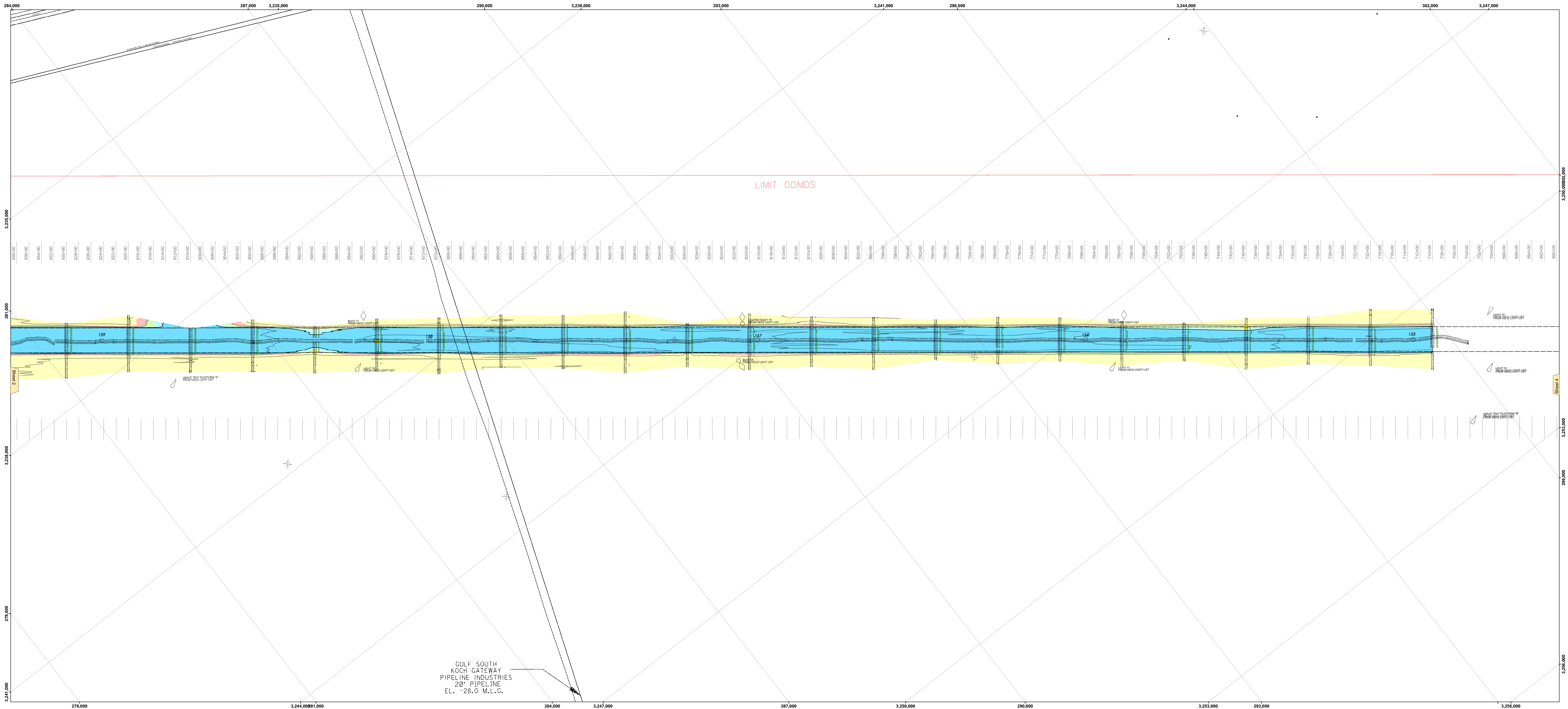


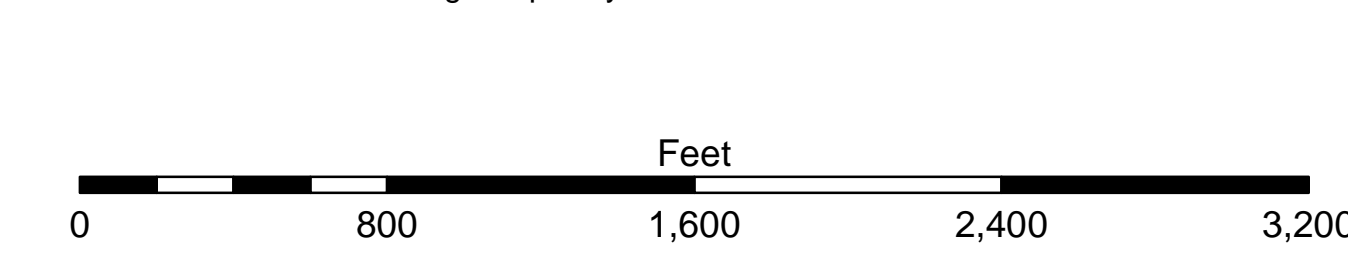
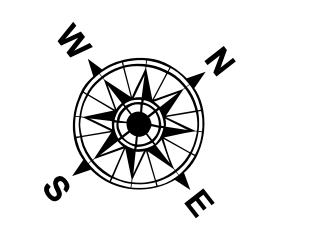


US Army Corps of Engineers District: CEMVN



GULF SOUTH KOCH GATEWAY PIPELINE INDUSTRIES 20" PIPELINE EL. -28.0 M.L.G.

LEGEND			
--- Federal Navigation Channel	--- Cable Area	□ Borrow Area	-12' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	-12' to -15'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	-15' to -18'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	★ Red Navigation Buoy	-18' to -20'
— Project Depth Contour	⚓ Wrecks-Submerged	★ Green Navigation Buoy	-20' and below
			Fluff Thickness* 3



Gage Reading: EUGENE ISLAND: 2.1 MLG AVG.
 Sea Conditions: 0-1 FT
 Vessel Name: M/V VALENTOUR
 Survey Type: DREDGE PROG
 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 Low Gulf Datum (MLG). Datum Relationships for the gage 88600 as of August 2013:
 0.0' NAVD83 = 0.6' MLG = 1.5' MLG
 Distances on the Atchafalaya River are shown at 1 mile intervals.
 The location of navigation aids are shown and provided by the U.S. Coast Guard.
 2013 Aerial Photography data source: GEOCLIP, Atlantic Group, LLC. (1998 DOQQ imagery in green).
 Reference is N.O.A.A. Navigation Chart No. 11354.
 * 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 bathymetric settings.

DISTANCE The chart shows Government Control Lines. Information on the chart is based on data from the engineering survey of the Atchafalaya River. The chart is not to be used for navigation purposes. The user is responsible for the safety of their own operations. The user is responsible for the safety of their own operations. The user is responsible for the safety of their own operations. The user is responsible for the safety of their own operations.

Drawn By: M/FAC	Checked By: AO/JH
Reviewed By: BD	Approved By: [Signature]
Chief Survey Section	Chief Waterways Maintenance Section

**ATCHAFALAYA RIVER
 BAR CHANNEL
 AR_03_BAR_20240719_CS
 19 July 2024**