## THE THREE BIG LIFTS SASHTO - NEW ORLEANS AUGUST 25, 2014



Huey P. Long Bridge Widening Project

## Presenters

$\square$ Brian D. Buckel, PE

- During Construction - LADOTD Chief Construction Engineer

Stephen Spohrer, PE
$\square$ During Construction - LTM Deputy Director, Construction


## The Conceivers

$\square$ Special Credit goes to:
$\square$ Keith Jacobson, Massman Construction Company, Retired Vice President. Keith followed the strength of his convictions and managed the success of the endeavor.
$\square$ John Brestin, PE, formerly HNTB Project Engineer now with Buckland \& Taylor Ltd. John designed the temporary works and the lifts.
"Some say that more prayers have been uttered atop the Huey P. Long Bridge than in all the churches of New Orleans and Jefferson Parish combined. "


## The Construction Team

## MTI

MASEMAN

A cONSTRUGTION EO.


## IHI

CUMAMMOET

## The Owner Team



OUISIANA DEPARTMENTO
TRANSPORTATION \& DEVELOPMENT

Louisiana


PARSONS BRINCKERHOFF

## The Problem

$\square$ The planned obstructions in the River and their impacts on barge and steamship traffic.
$\square$ The heavy ship and barge traffic, post-Hurricane Katrina.
$\square$ Daily Amtrak East-West trains.
$\square 24-30$ freight trains per day.
$\square$ 50,000 + ADT
$\square$ That this project controlled the opening of the new bridge




STAGE M3
BEGIN WIDENING TRUSS ERECTION





STAGE M3 - TASK 13


STAGE M3 - TASK 14






STAGE M3 - TASK 19

## The Solution

$\square$ Build three of the four spans in a remote location, barge each to the site, lift each in place in one single 8 -hour shutdown of the river, railroad, and highway.
$\square$ Stick build the fourth span where it was too shallow and overland.

## The Solution Became the 3 Big Lifts

$\square$ Each was different:
$\square$ The first lift was the first of the series and in the auxiliary channel.
-The second lift was in the main channel with greater traffic, all the ship traffic, and higher currents.
$\square$ The third lift was the heaviest.

## Timing is Everything

$\square$ All lifts had to occur before or after the Spring rise.
$\square$ All lifts had to occur before June $1^{\text {st }}$ or after October $31^{\text {st }}$ the hurricane season.
$\square$ All lifts had a fallback date two weeks later.

## HNTB Animation









## Big Lift No. 1 - East Anchor Span




## Big Lift No. 2 - Main Span




## Big Lift No. 3 - East Simple Span




B.C.


## Questions?



