



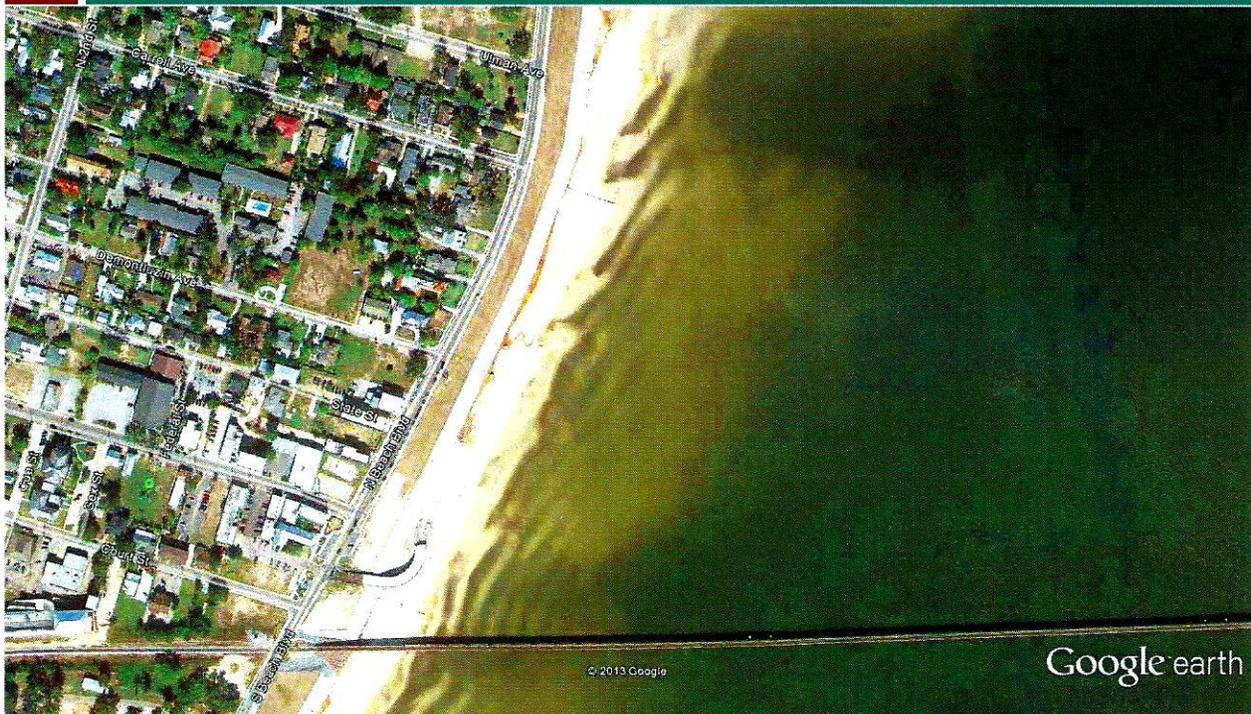
# Bay St. Louis Municipal Harbor and Pier Project Bay St. Louis, Mississippi

## PROJECT OVERVIEW

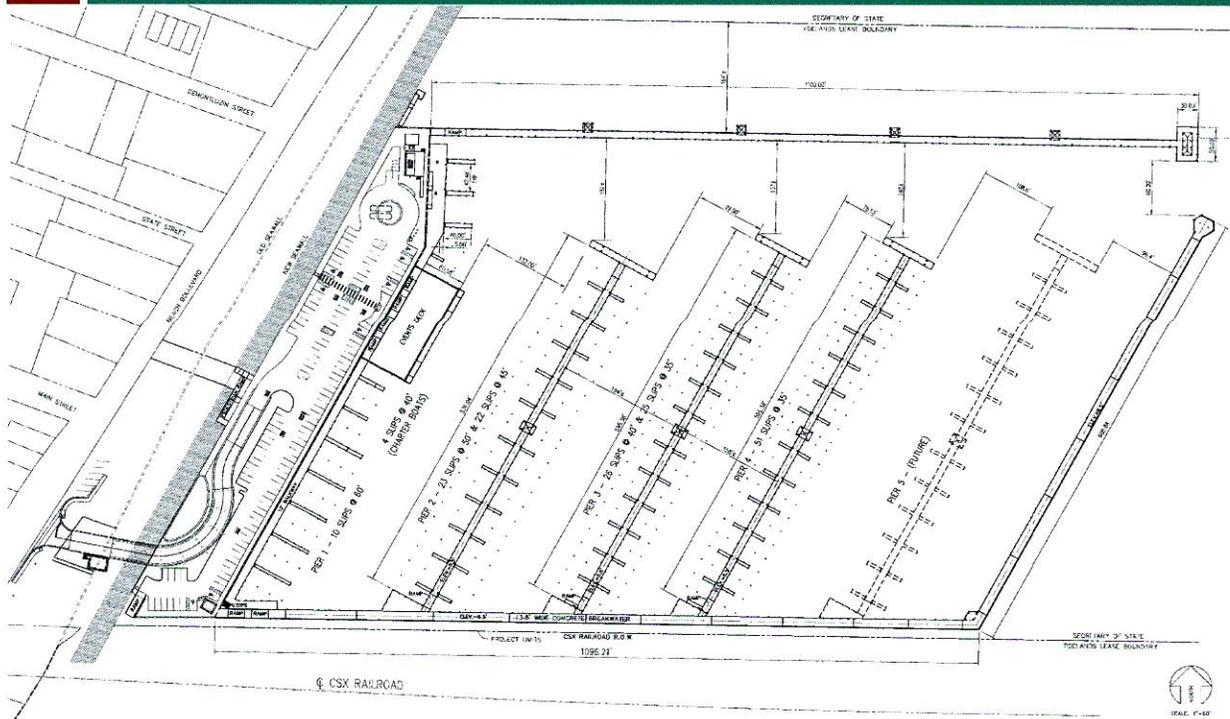
July 17, 2013



## Harbor Location



# Dimensional Drawing



## Project Schedule / Details

- **Received Bids** August 2012
- **Notice To Proceed** November 2012
- **Contract Completion** May 2014 (560 Calendar Day Contract)
- **50% complete as of June 30, 2013**
- **Total Construction Contract Value \$21 Million**
- **Consists of CDBG, FEMA, MSDMR BIG and Tidelands Funds**
- **165 wet slips with sizes ranging from 25' to 60'**

# Project Details

- Total End Tie capacity – 272 Linear Feet (End Ties are at the end of Piers 2 (105 LF, 3 (86 LF) & 4 (81 LF), End Tie elevation = +4.5')
- Slip size range – 25' to 60'
  - 10 – 60' slips, each 24' wide
  - 23 – 50' slips, each 21' wide
  - 21 – 45' slips, each 21' wide
  - 30 – 40' slips, each 20' wide (not including 2 – 40' load/unload slips adjacent to Events Deck)
  - 66 – 35' slips, each 20' wide
  - 10 - 25' slips, each 20' wide

# Project Details

- Each slip has electrical and water service connections
- Slip power varies depending on slip size
  - 60' slips have 100 amp service
  - 50' and 45' slips have 100 amp service
  - 40' and 1 row of 35' slips have 50 amp service
  - 25' & 35' slips have 30 amp service
  - End Ties have 100 amp service
  - Events Deck has 400 amp available service
  - Events Deck lower pier has 2 – 100 amp service
- Total ADA accessible slips – 12 (Various slip lengths from 25' to 60')
- The Events Deck is 155' long and 60' wide (elevation = +6.5') with an 8' ADA compliant wooden pier adjacent to the eastern side of the deck to facilitate ADA loading requirements

# Project Details

- Main Piers 2, 3 & 4 are approximately 600 Linear Feet long with main pier section elevation = +5.5' and finger pier elevation = +4.5'. Finger piers vary in width from 4' to 8'.
- Fuel Dock and Sewer Pump out stations are located along the bulkhead wall in the north western corner of the harbor.
- Dredging – 150,000 CY (total)
  - Basin Cut to -8.0' at Mean Lower Low Water.
  - Approximately 145,000 CY is suitable for beach re-nourishment and backfill to elevate the parking lot up to +10.0' elevation.
  - Approximately 5,000 CY is anticipated to be unsuitable and must be removed and placed in a beneficial re-use site (Harrison County Development Commission – Pass Christian Industrial Park Dredge Disposal site).
  - Maintenance dredging is anticipated to be required every 5 – 10 years with a potential accumulation of 65,000 CY of material to be removed during this time range.

# Project Details

- Rutherford Pier (elevation +8.0')
  - Serve as the northern boundary of the harbor basin and includes a solid bulkhead wall connected to the north side of the pier to act as a breakwater structure and block sand from migrating into the basin.
  - Pier length is approximately 1,100 Linear Feet.
  - Pier includes 4 covered platforms and a 30' x 50' fishing platform with a 10' x 20' portion that is covered.
- The southern and eastern breakwater are solid concrete structures with flow through openings for natural basin flushing. The openings also allow for Gulf Sturgeon (endangered species) to enter & exit the basin. The deck elevation on the breakwater is +6.5' above MSL. The deck also has a solid concrete wall along the outside edge of the deck that extends basin protection up to +10.0' above MSL.



**BAY SAINT LOUIS**  
A PLACE APART

**MUNICIPAL PIER & HARBOR**

JULY 25, 2011

**bma** BROWN, MITCHELL & ALEXANDER, INC.  
CONSULTING ENGINEERS

**DALE PARTNERS**



**BAY SAINT LOUIS**  
A PLACE APART

**MUNICIPAL PIER & HARBOR**

JULY 25, 2011

**bma** BROWN, MITCHELL & ALEXANDER, INC.  
CONSULTING ENGINEERS

**DALE PARTNERS**



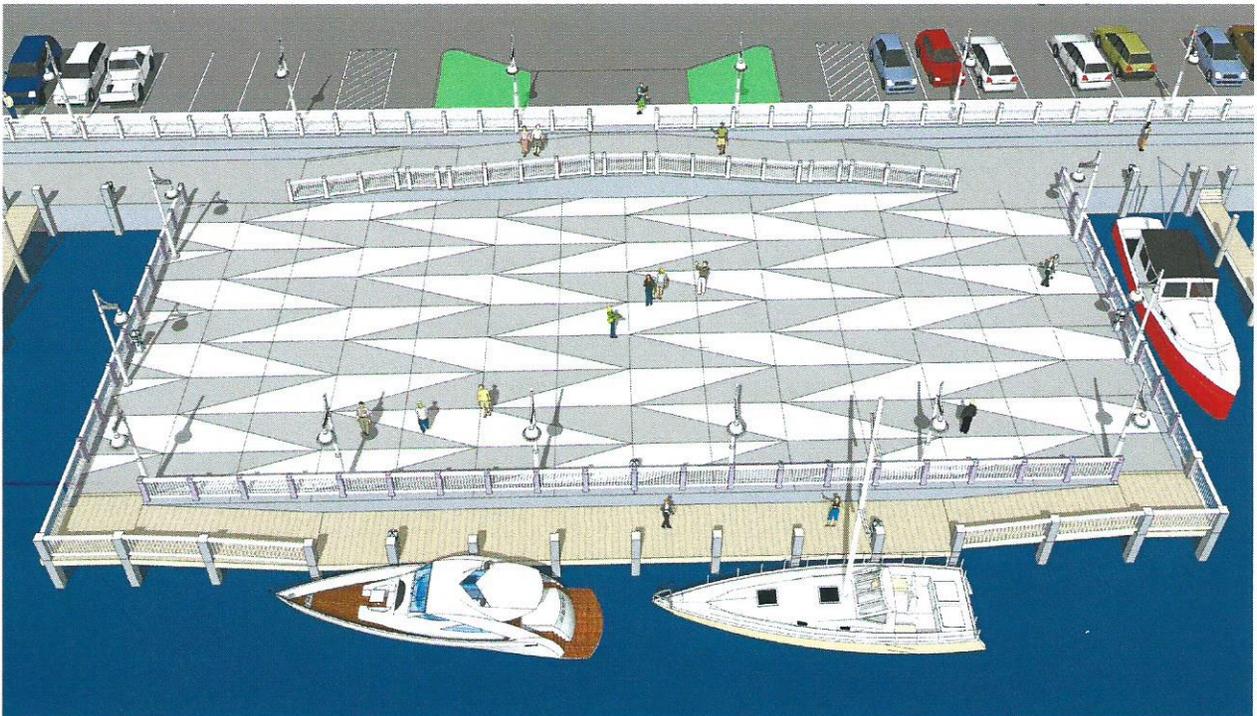
**BAY SAINT LOUIS**  
A PLACE APART

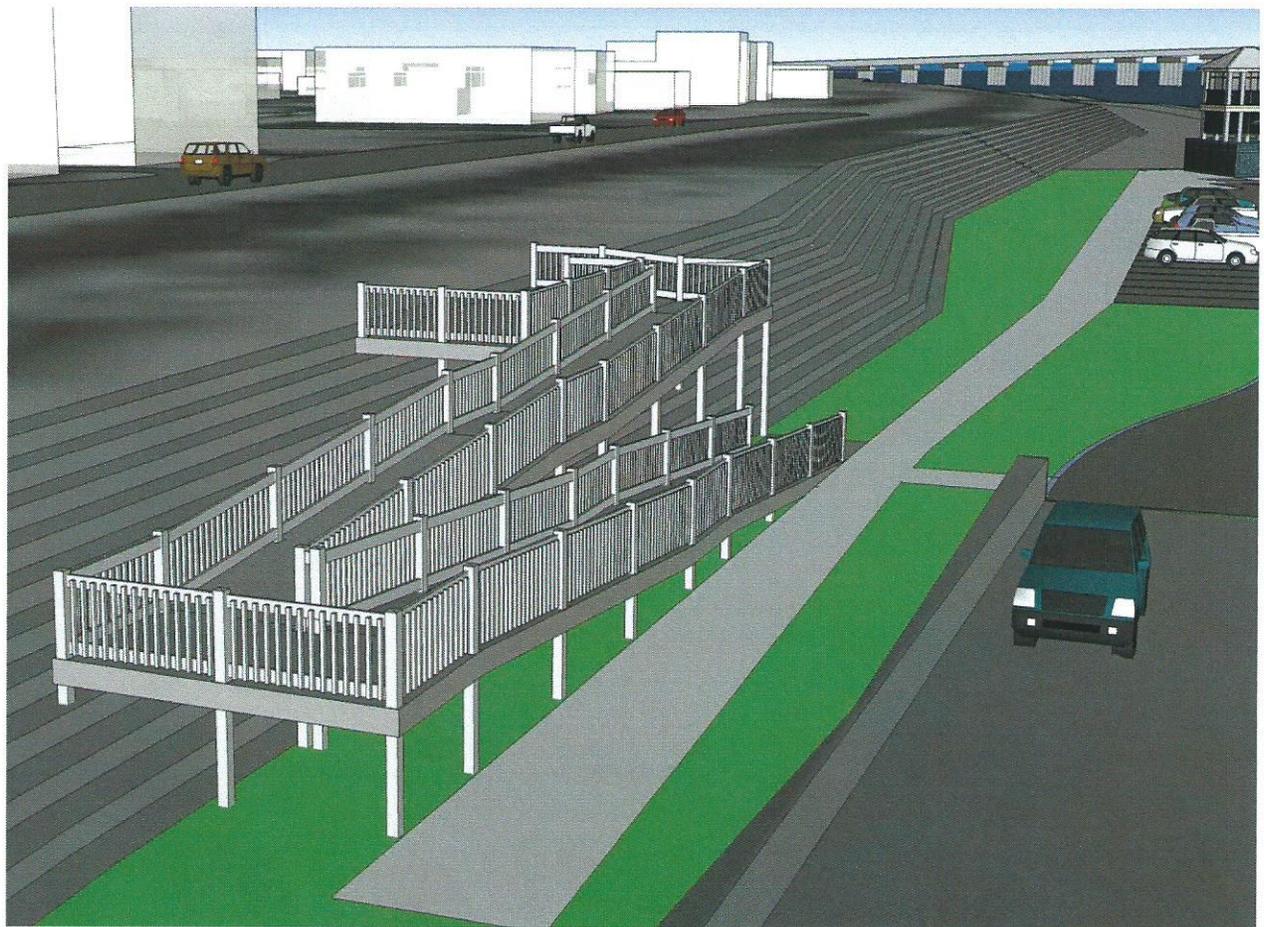
# MUNICIPAL PIER & HARBOR

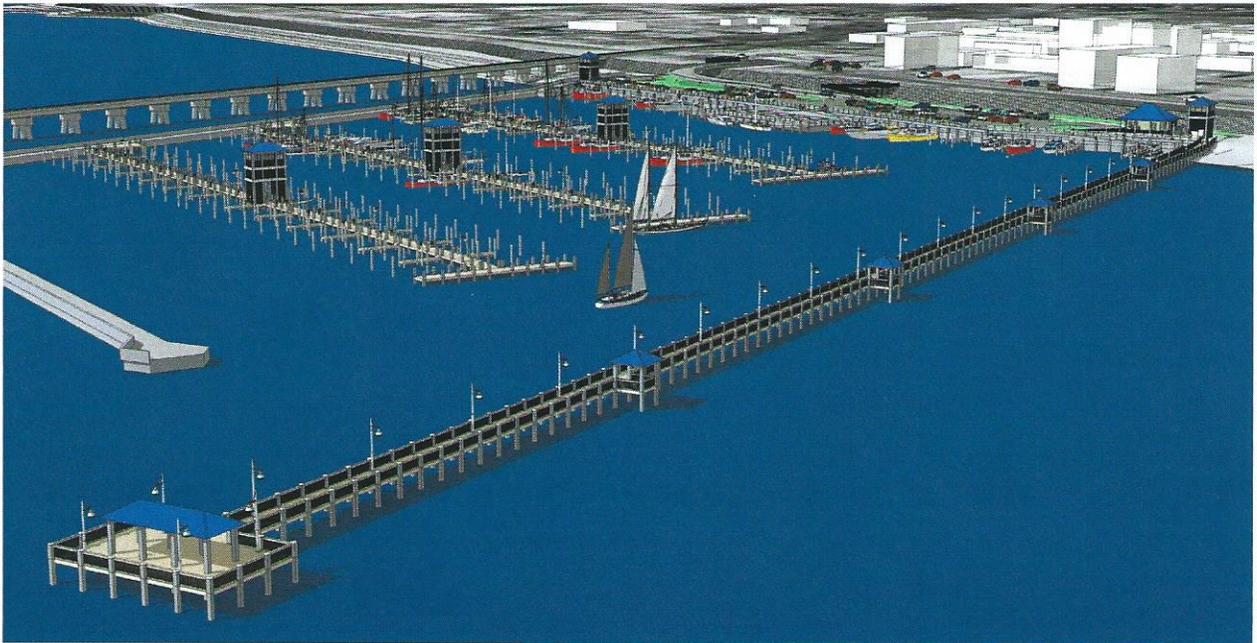
JULY 25, 2011

**bma** BROWN, MITCHELL  
& ALEXANDER, INC.  
CONSULTING ENGINEERS

**DALE  
PARTNERS**









# BSL HARBOR & PIER PROJECT

[www.bslharbor.blogspot.com](http://www.bslharbor.blogspot.com)

jason@bmaengineers.com

Questions?

**bma** BROWN, MITCHELL  
& ALEXANDER, INC.  
CONSULTING ENGINEERS

BAI SAINT LOUIS