California Marine Affairs & Navigation Conference (CMANC) Jan. 16, 2014

# A Development Update Building the Port of the Future



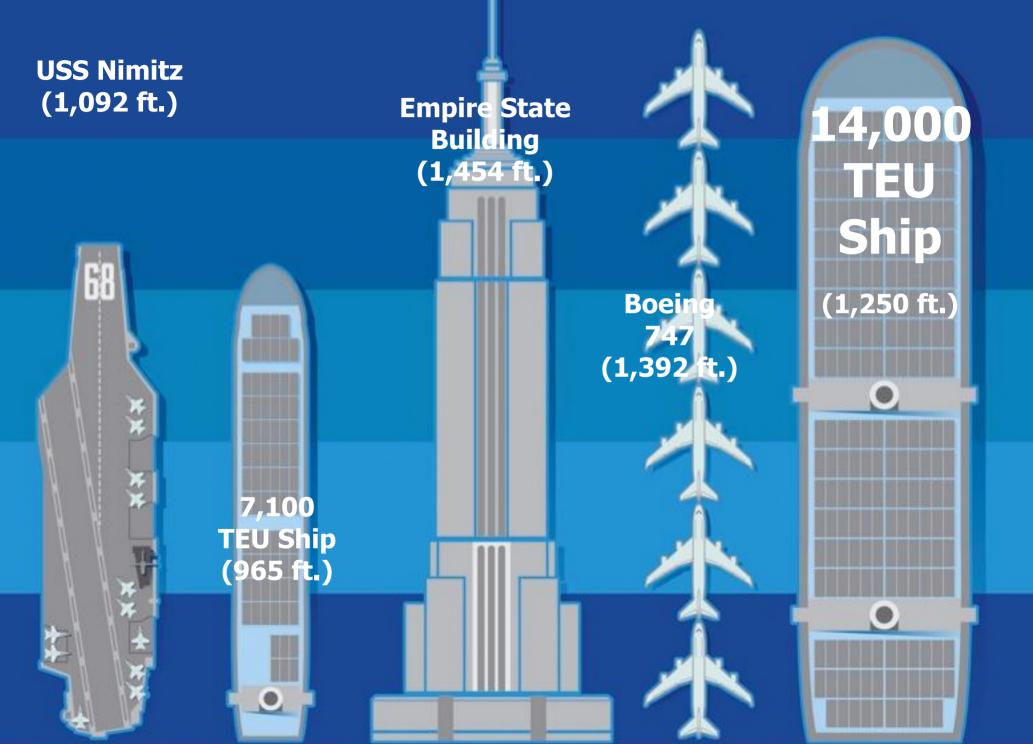
### Doug Thiessen, P.E.

Managing Director of Engineering Services

### Nation's 2<sup>nd</sup> Busiest The Greenest Port Gateway for clothing, toys, shoes, furniture



### 14,000-TEU ships call here Big Ship Ready Too big for expanded Panama Canal

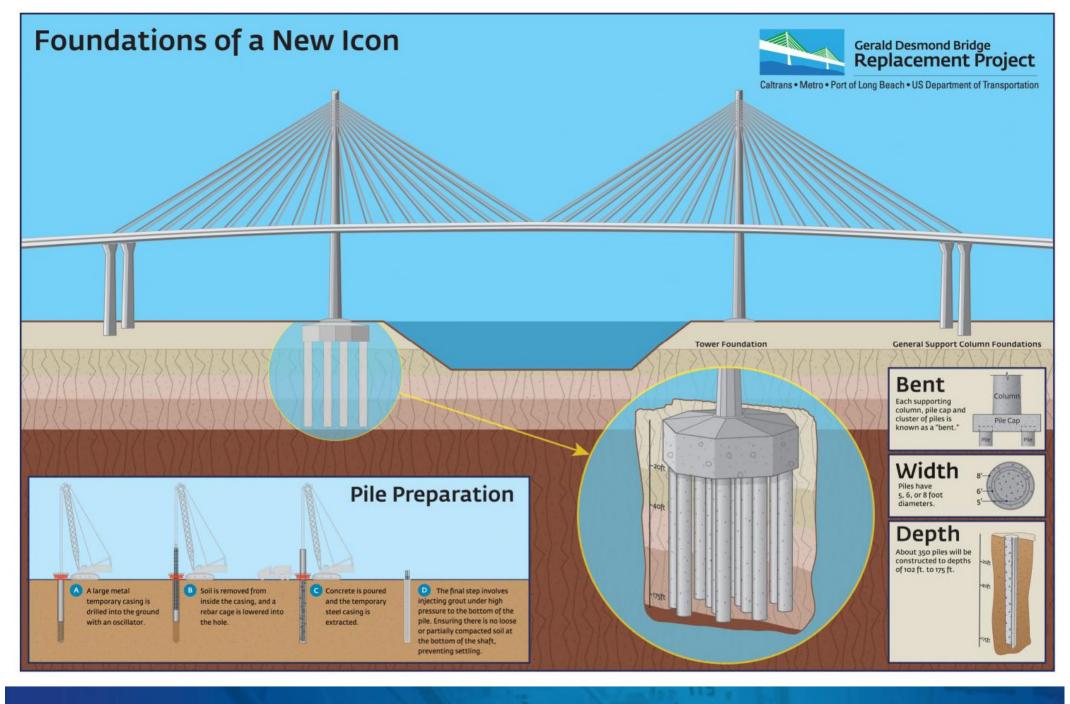


# 3,000+ jobs a year \$4 Billion in Projects

TYN I

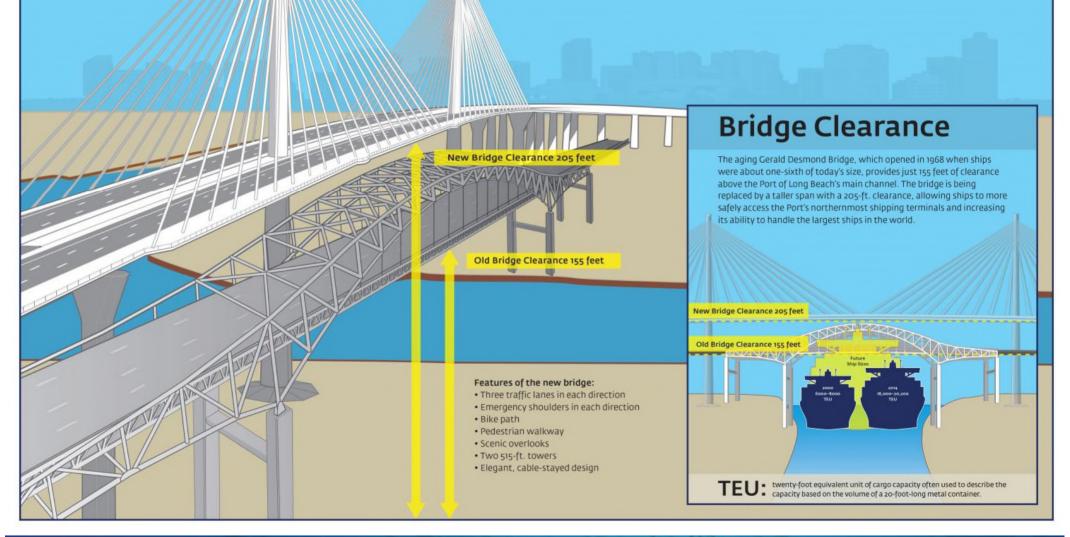


### \$1.3 billion project ICONIC Bridge Opening to westbound traffic as early as 2017





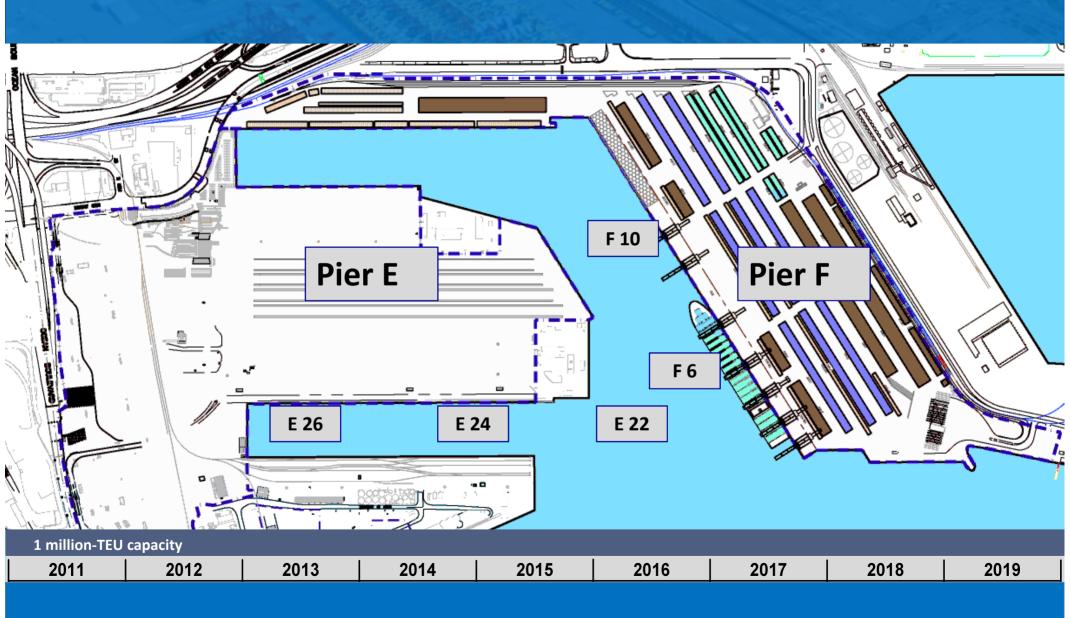
Caltrans • Metro • Port of Long Beach • US Department of Transportation

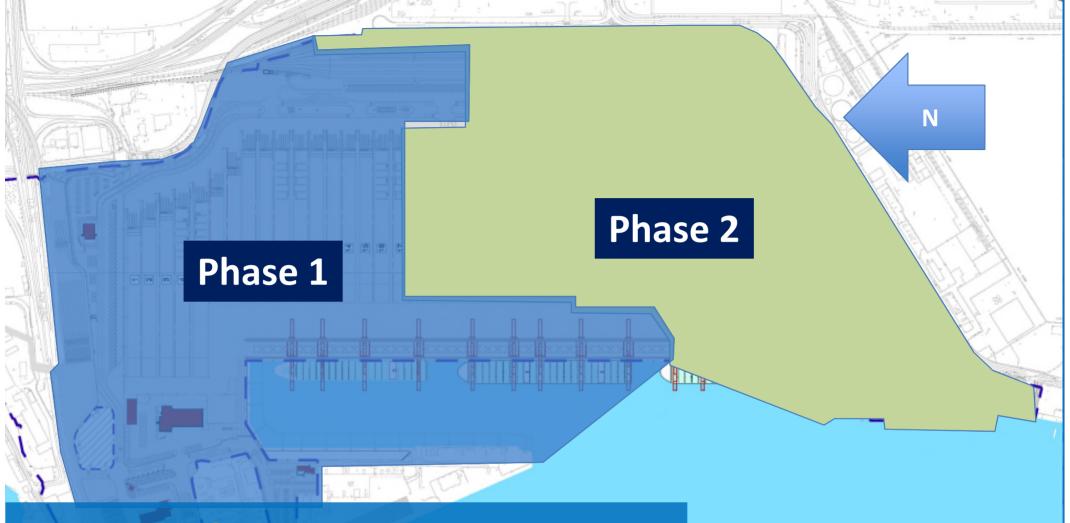


### \$1.3 billion Middle Harbor

First half set to open in late 2015

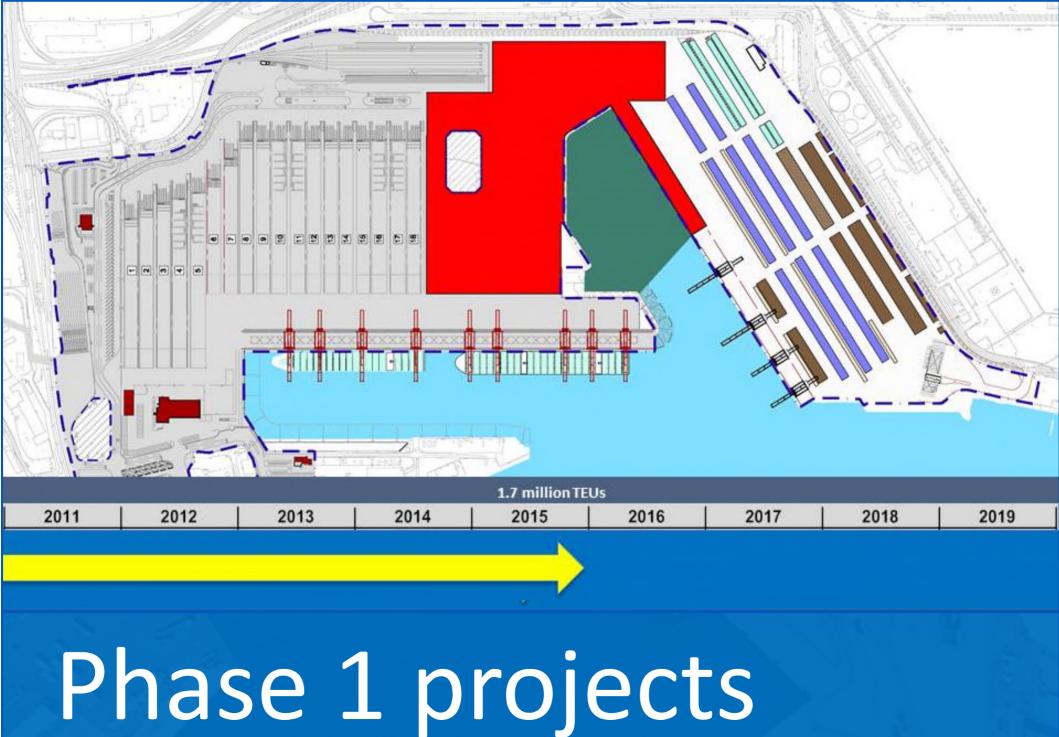
### **Before Construction**





# Two phases Middle Harbor

\$1.314 billion budget



# Six on site Ship-to-Shore, Cranes

8 more of the most advanced cranes on the way

### 34 on site Guided Vehicles 4 more on the way

ZERO EMISSIO



### Opening in 2015

### - 101 IN 3.3 million-TEU Phase 2 projects

### Phase 2 Construction Projects

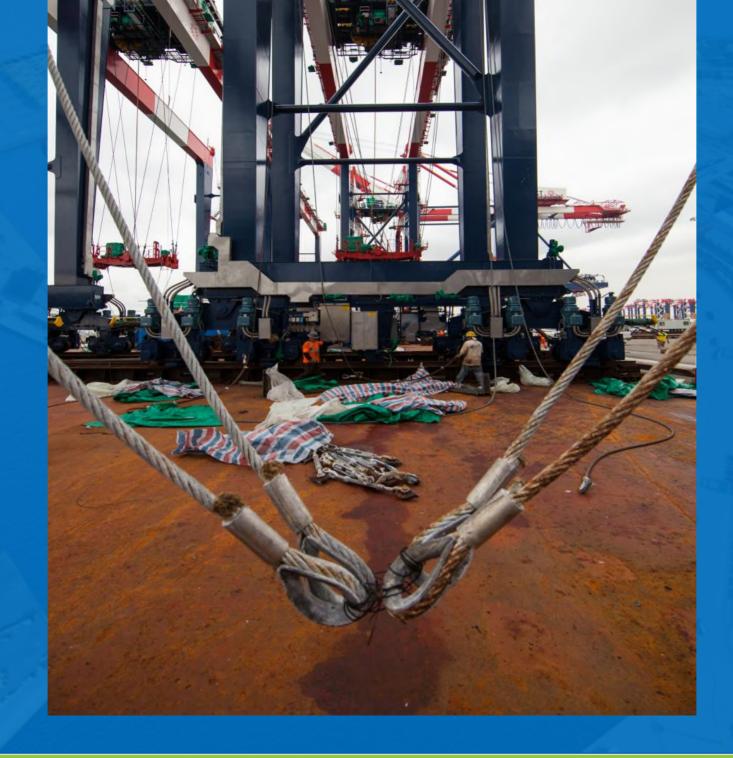
- Container Yard & Rail Yard Development
- Berth E22 Wharf and Backlands Redevelopment
- Slip No. 1 and East Basin Fill, Pier F Wharf Demolition, Berth F201 Dredging
- Roadability Repair Facility, Longshore Restrooms
- Administration Building
- South Gate and North Gate
- Intermodal Rail Yard
- Pico Ave Traffic Signals

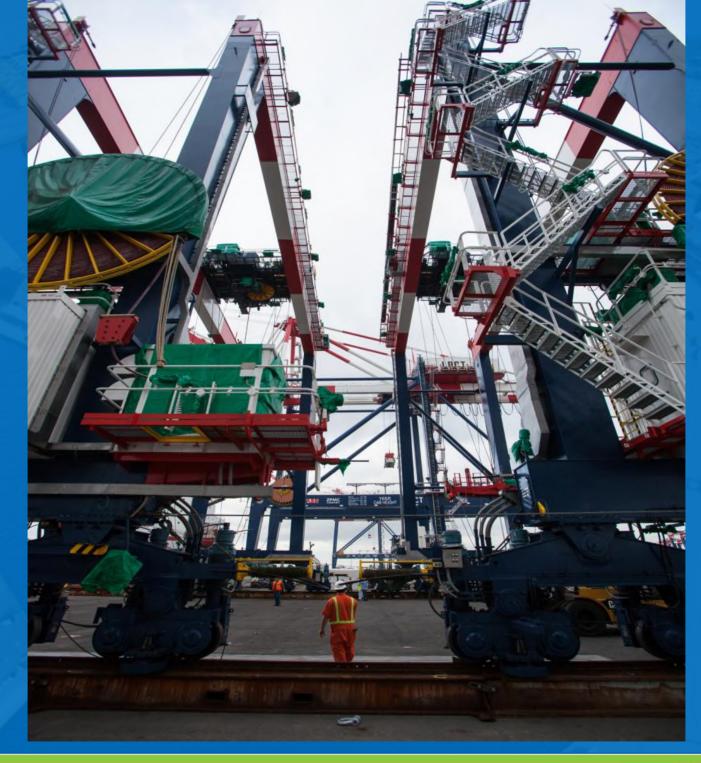
# 3 million-TEU capacity Middle Harbor

Most technologically advanced in No. America













### Pier G Project ITS Redevelopment Next phase to include rail yard renovation



CAT =

# Green Port Gateway Upgrading Rail

NE

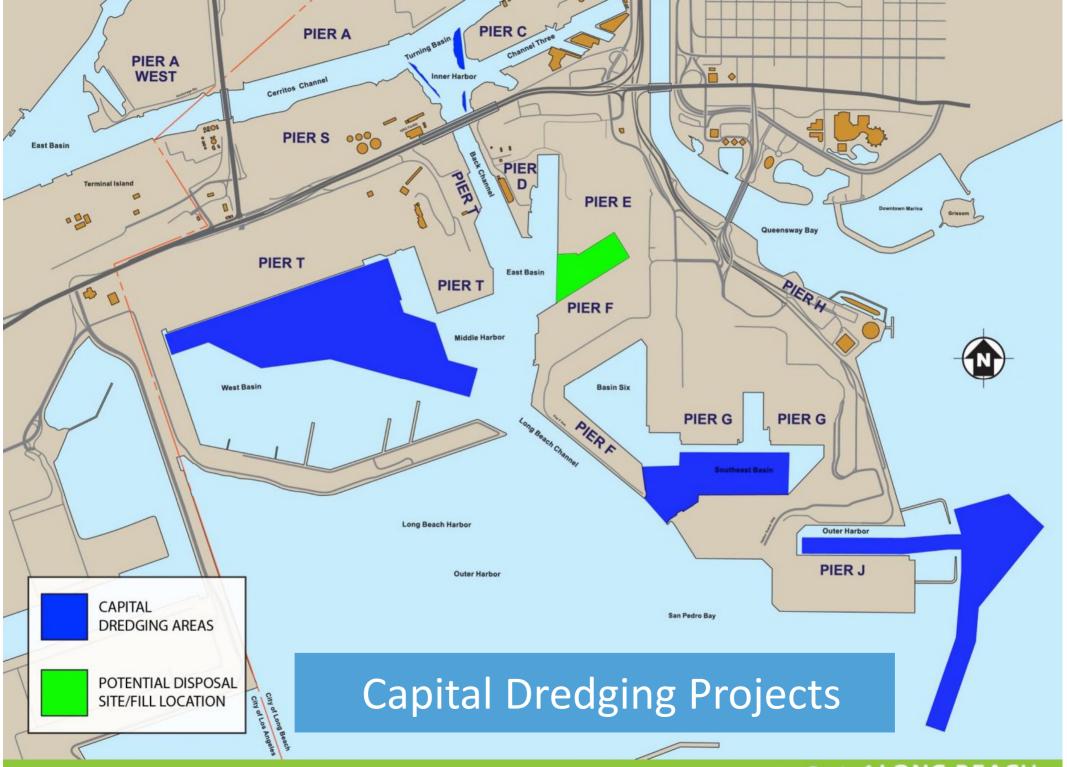
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540

The Gre







### 82%

Drop in Diesel Emissions since 2005

# Green Port Policy Sustainability

### Sulfur Oxides: DOWN 9000/0

Diesel Particulate Matter: DOWN



Nitrogen Oxides: DOWN 540/0

**0.3%** TEUs UP

**2013 Emissions Inventory** 

Greenhouse Gases: DOWN

# Clean Air Barge Alternative Tech

-

-

Port of LONG BEACH

ZIM

### Mobile

St. Mary

Anderal Centr

# \$18 million in grants Community Partner

Port of LONG BEACH

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### **Consulting Opportunities**

On- Call Design Review – 2015 On- Call Utility Locating – February release RSOQ Terminal Island Rail Wye – Spring 2015 Rail Master Planning- Summer 2015 Pier D Street Realignment Design – 2015 Field Support & Operations Building – 2015 GDB Demolition Design – Jan 2015 On- Call Cost Estimating – 2016

### POLB.COM

For upcoming project information Future Construction Work Master Schedule of CIP projects

# Bright Future

Long Beach -- a great place to live and work