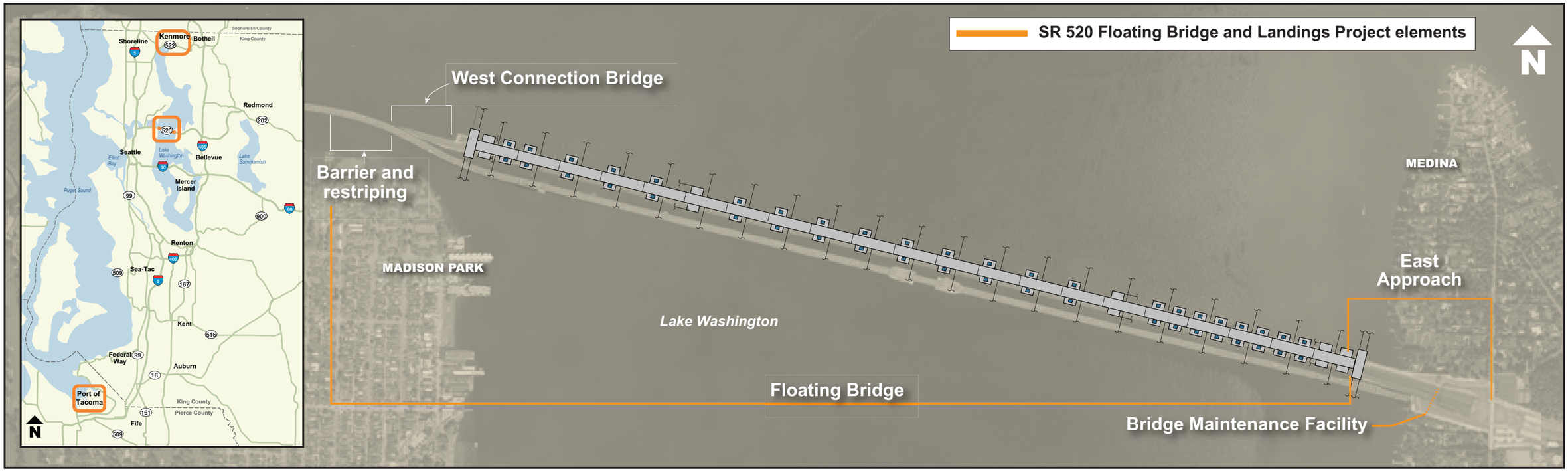
Washington State Department of Transportation

SR 520 Bridge Replacement and HOV Program

I-5 to Medina: Bridge Replacement and HOV Project

STATE ROUTE 520

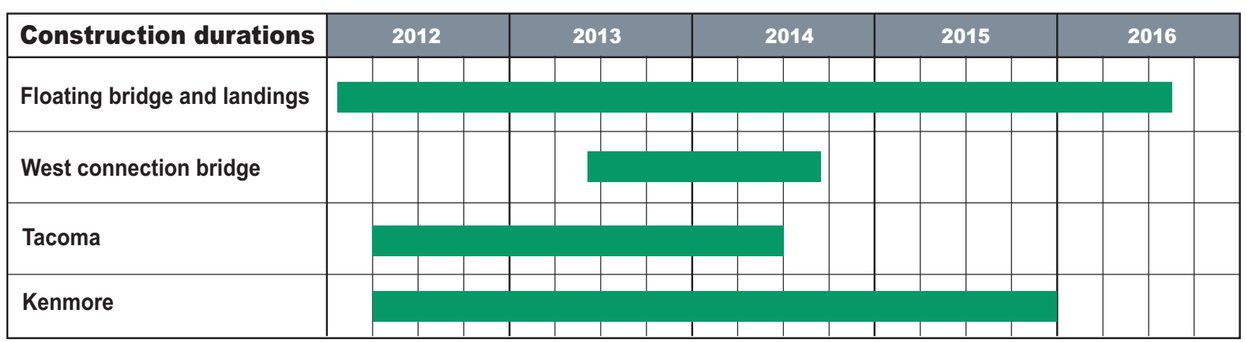
Floating bridge and landings project area



Project elements include:

- Design and construction of:
  - New six-lane floating bridge superstructure and roadway, including HOV lanes and a bicycle/pedestrian path.
  - 44 supplemental stability pontoons.
  - Anchors and anchor cables.
  - Permanent East Approach.
  - Final connection to Evergreen Point Road vicinity.
  - Transition structures between East and West Approaches and floating bridge.
  - New maintenance facility and dock in Medina.
- Towing pontoons to Lake Washington.
- Assembly of the new floating bridge.
- Removal of existing floating bridge and landings.

Floating bridge and landings project durations and construction activities



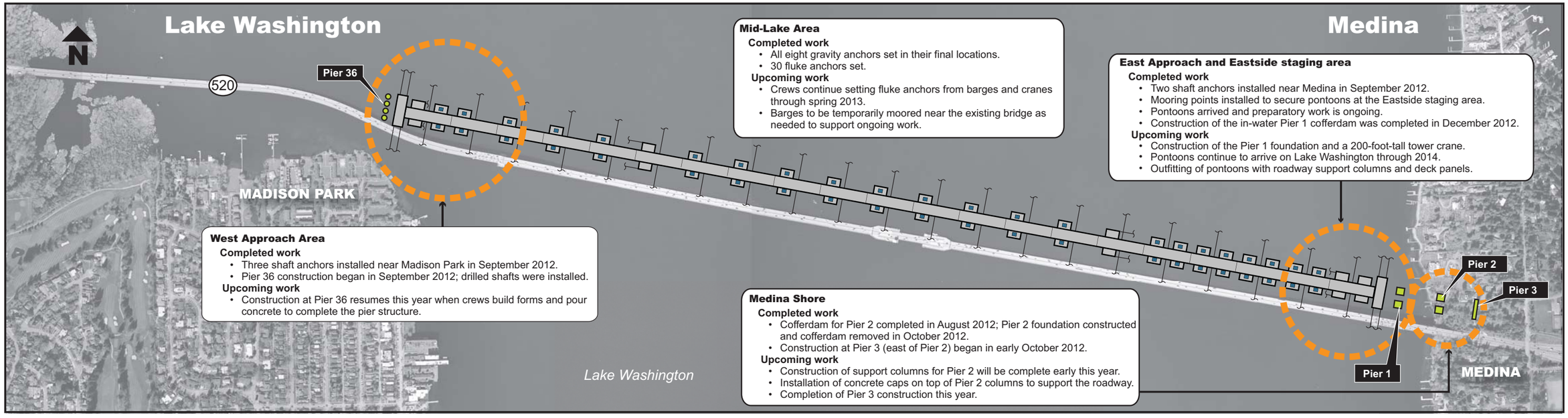
Washington State Department of Transportation

SR 520 Bridge Replacement and HOV Program

I-5 to Medina: Bridge Replacement and HOV Project

STATE ROUTE 520

Accomplishments to date



West Approach Area

Completed work
- Three shaft anchors installed near Madison Park in September 2012.
- Pier 36 construction began in September 2012; drilled shafts were installed.

Upcoming work
- Construction at Pier 36 resumes this year when crews build forms and pour concrete to complete the pier structure.

Mid-Lake Area

Completed work
- All eight gravity anchors set in their final locations.
- 30 fluke anchors set.

Upcoming work
- Crews continue setting fluke anchors from barges and cranes through spring 2013.
- Barges to be temporarily moored near the existing bridge as needed to support ongoing work.

East Approach and Eastside staging area

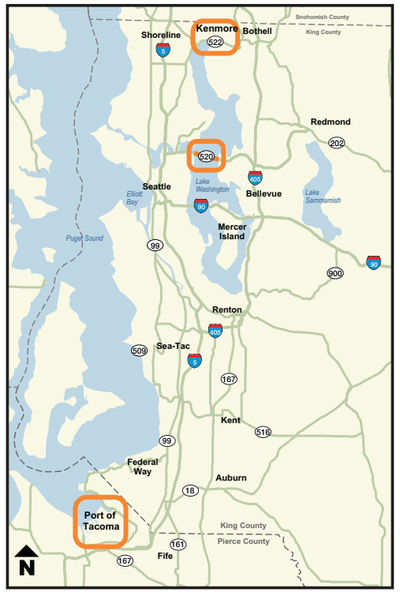
Completed work
- Two shaft anchors installed near Medina in September 2012.
- Mooring points installed to secure pontoons at the Eastside staging area.
- Pontoons arrived and preparatory work is ongoing.
- Construction of the in-water Pier 1 cofferdam was completed in December 2012.

Upcoming work
- Construction of the Pier 1 foundation and a 200-foot-tall tower crane.
- Pontoons continue to arrive on Lake Washington through 2014.
- Outfitting of pontoons with roadway support columns and deck panels.

Medina Shore

Completed work
- Cofferdam for Pier 2 completed in August 2012; Pier 2 foundation constructed and cofferdam removed in October 2012.
- Construction at Pier 3 (east of Pier 2) began in early October 2012.

Upcoming work
- Construction of support columns for Pier 2 will be complete early this year.
- Installation of concrete caps on top of Pier 2 columns to support the roadway.
- Completion of Pier 3 construction this year.



Tacoma

Work completed or in progress
- Completed the first cycle of pontoons (six pontoons) in July 2012.
- Complete the second cycle of pontoons (six pontoons) in early 2013.

Upcoming work
- Construction begins for third cycle of six pontoons in February 2013.

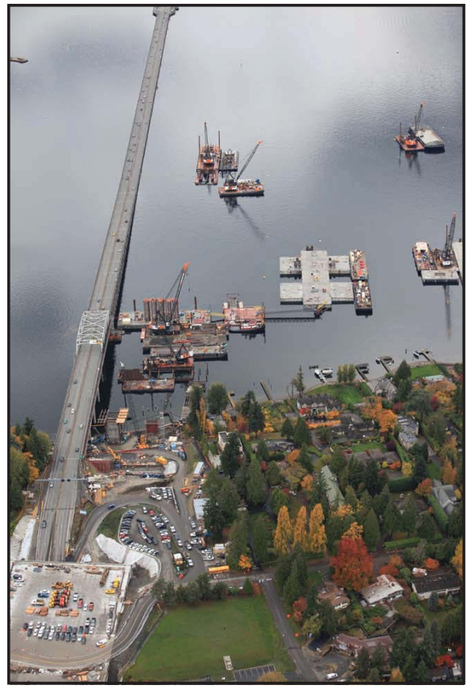
Kenmore

Work completed or in progress
- Completed all eight gravity anchors.
- All 45 fluke anchors have been constructed.
- Finished casting concrete box column panels

Upcoming work
- Begin casting roadway deck sections for the new floating bridge roadway in summer 2013.

Project milestones

The first longitudinal pontoon was pushed through the Ballard Locks in August 2012.



Aerial photos of the East Approach and Eastside staging area in Medina in fall 2011 (left) and fall 2012 (right). Photo credit: Aequalis Photography.

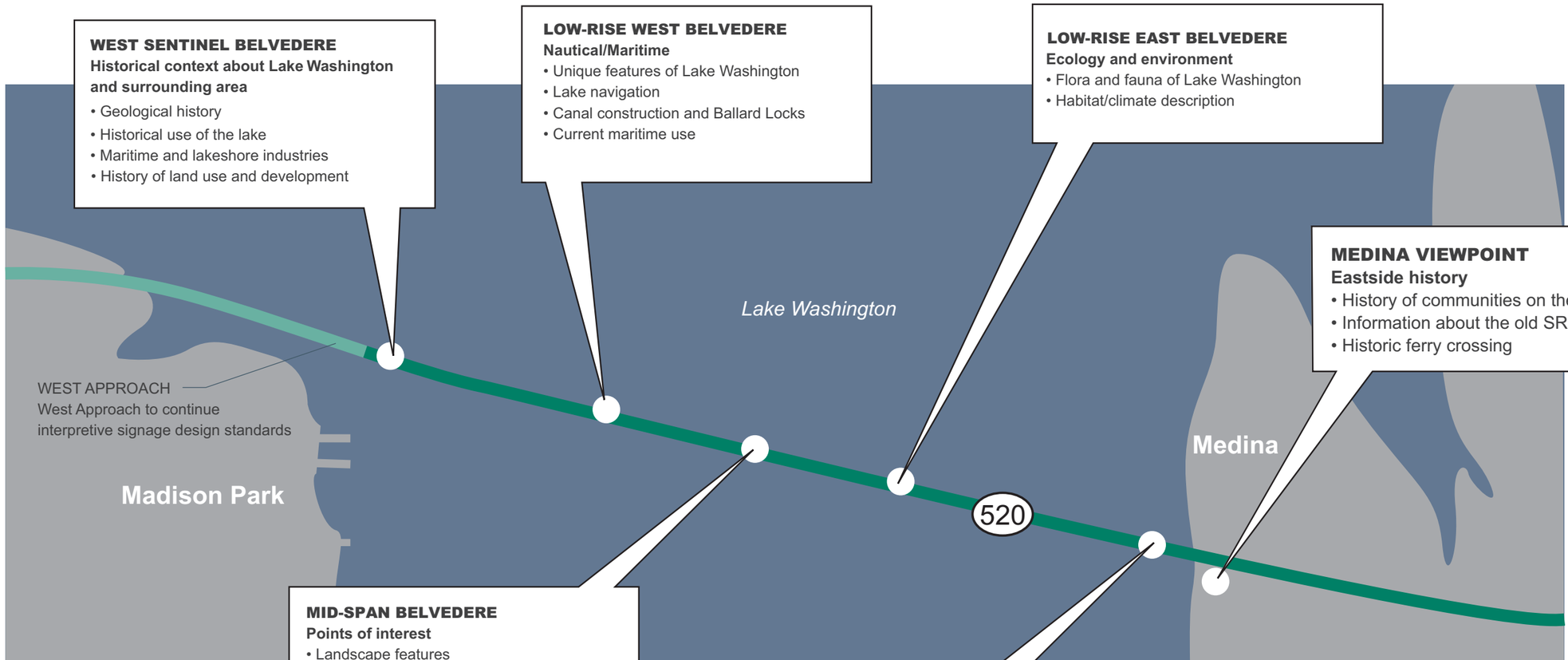
A gravity anchor was lowered into Lake Washington in May 2012.

In December 2012, the last metal sheets were installed for the Pier 1 cofferdam near Medina.

The first cycle of supplemental stability pontoons were floated out of the Tacoma casting basin in July 2012.

Interpretive signage - themes and locations

There are six belvederes along the length of the floating bridge, each with its own themed signs. SR 520 belvederes are architectural features that offer a scenic view of the surrounding area and a place to rest for bicyclists and pedestrians using the shared path.



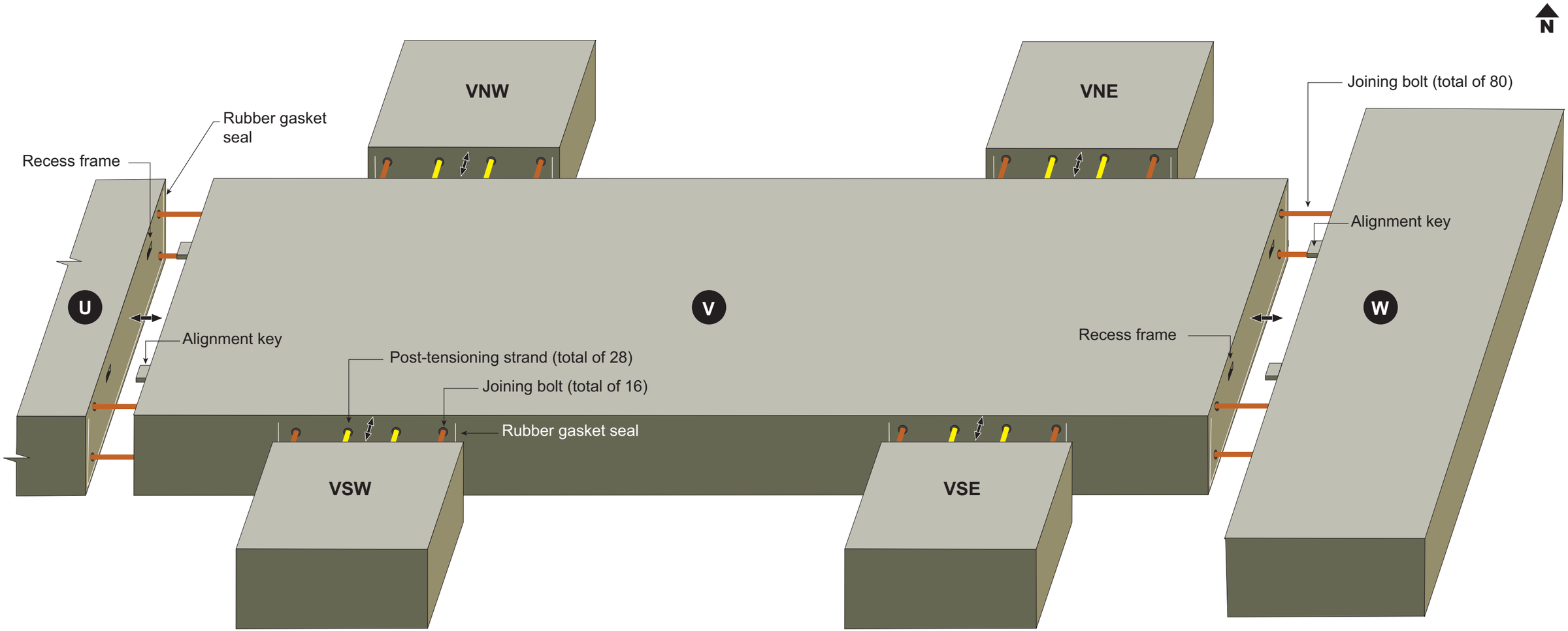
kpff

BergerABAM

Helix design group

KGM

Pontoon joining on Lake Washington

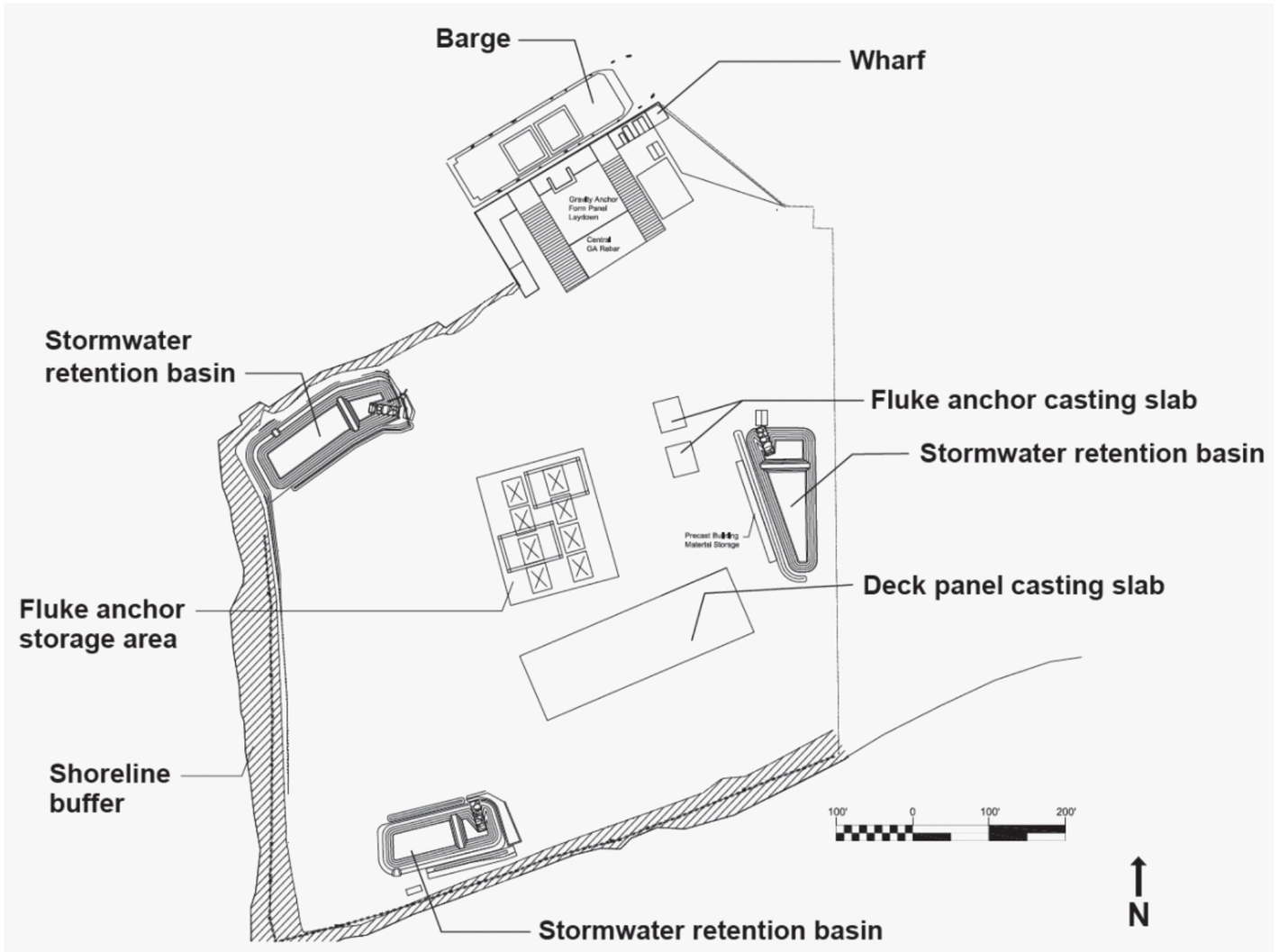


Note: For illustrative purposes only. Not to scale. All joints are sealed with concrete grout.

Kenmore construction site

Floating bridge contractor Kiewit/General/Manson, A Joint Venture (KGM) leased the Kenmore Industrial Park site to build components for the new SR 520 floating bridge. These components include gravity anchors, fluke anchors and other pre-cast concrete components.

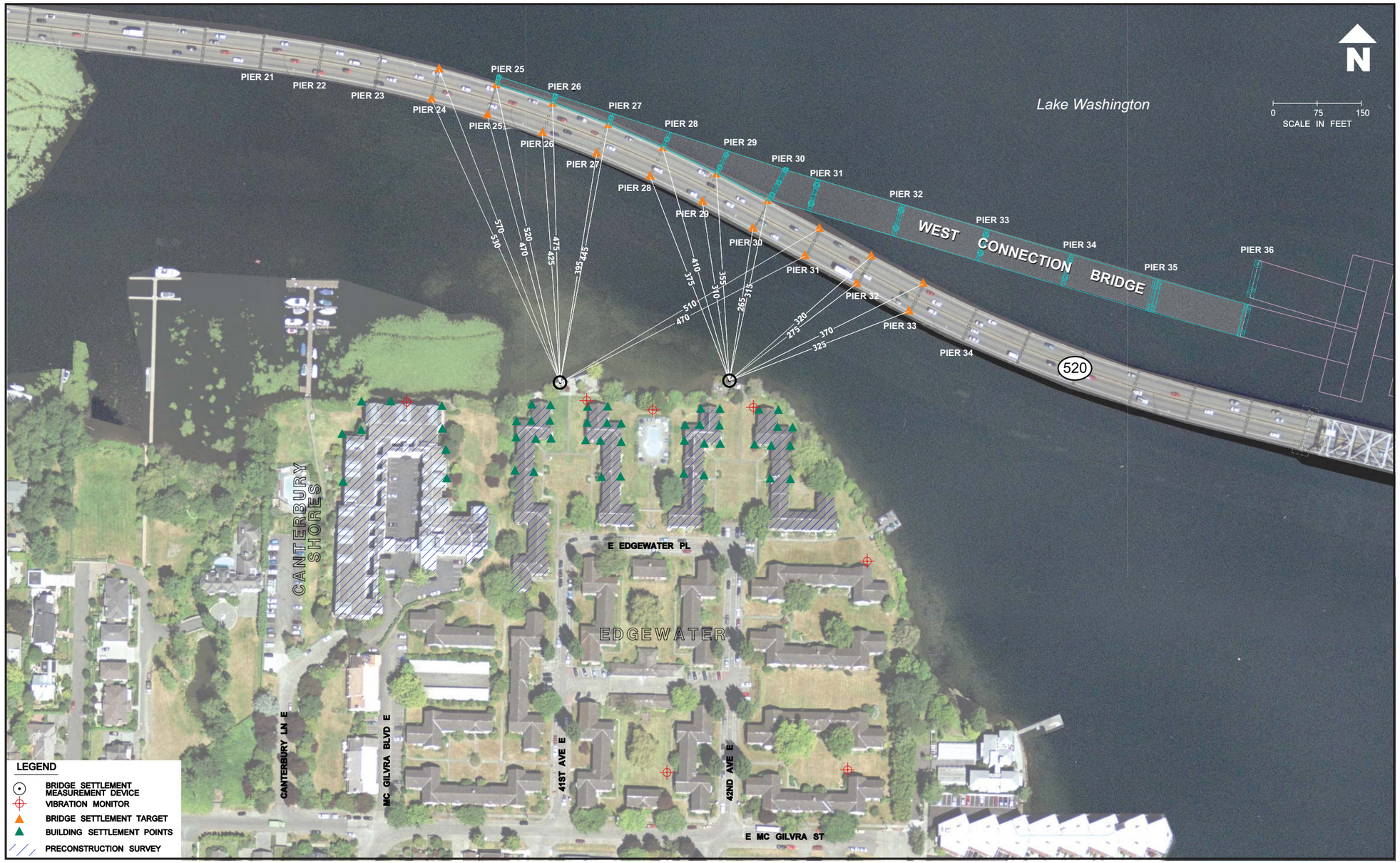
Aerial view of Kenmore construction site in October 2012. Photo credit: Aequelis Photography



Site plan

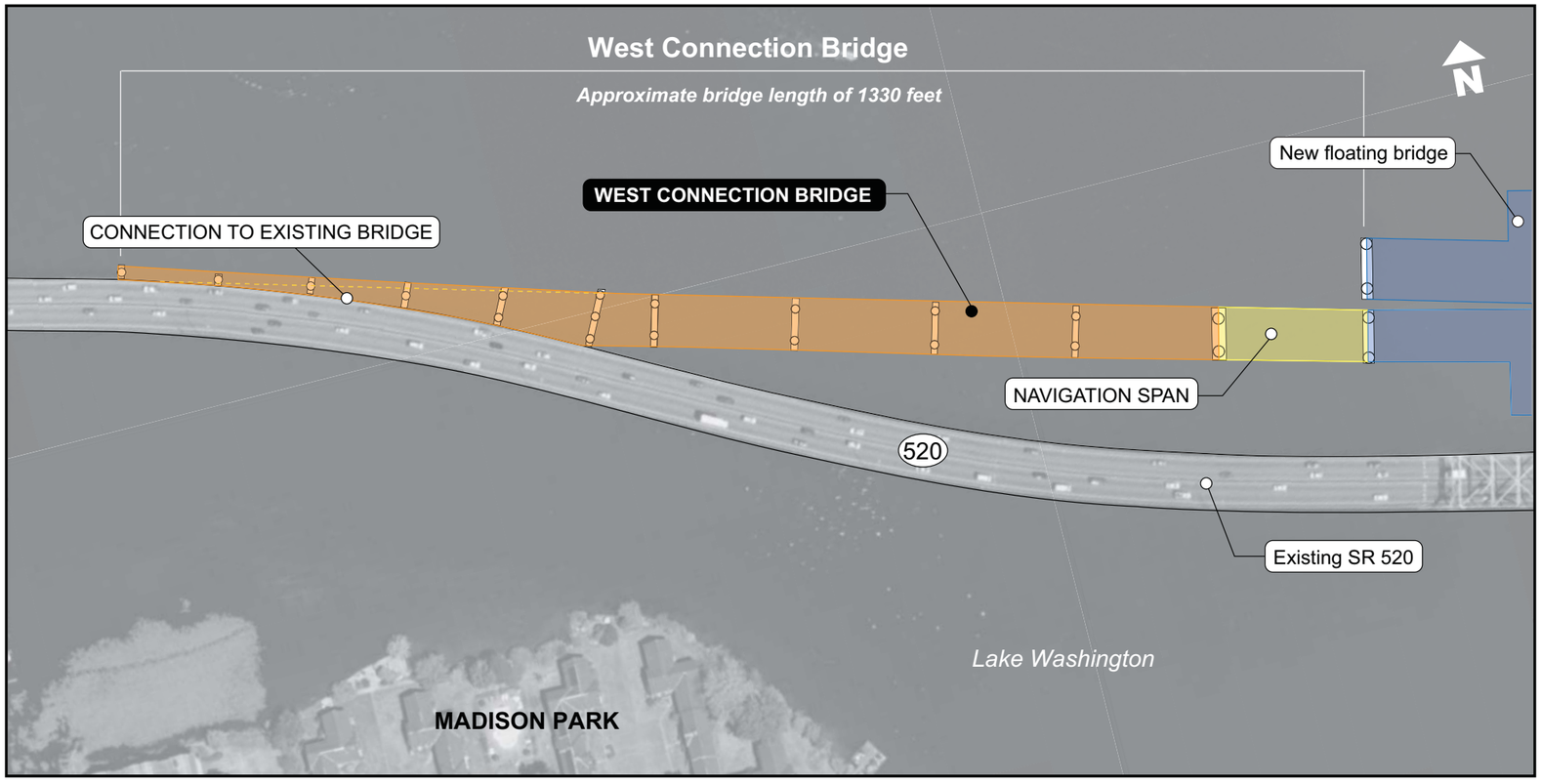
Proposed construction monitoring - West Connection Bridge

- WSDOT strives to minimize effects to local communities during construction.
- We will evaluate specific buildings to document current conditions prior to construction of the west connection bridge.
- During construction, we will closely monitor vibration and any settlement of the existing bridge to be aware of any potential effects.
- Conducting these surveys and monitoring allows us to have an accurate understanding of conditions throughout construction.



West Connection Bridge construction effects

WSDOT is building a structure that will connect the existing SR 520 roadway to the new floating bridge on Lake Washington. WSDOT will hire a contractor in spring 2013 so construction can start this summer.



For illustrative purposes only. Some project components, such as electrical conduits, will extend beyond the project limits.

Barge activity	In-water work	Over-water work
Duration Summer 2013 – Summer 2014 **Activities** • Transporting construction materials and equipment • Supporting in-water and over-water construction work	**Duration** Summer 2013 – Early 2014 **Activities** • Installing piles • Constructing temporary work platforms on piles • Drilling shafts for bridge footings • Building bridge columns	**Duration** Fall 2013 – Summer 2014 **Activities** • Building cross beams • Setting precast girders • Forming and pouring concrete bridge deck and barrier • Connecting electrical and information technology systems