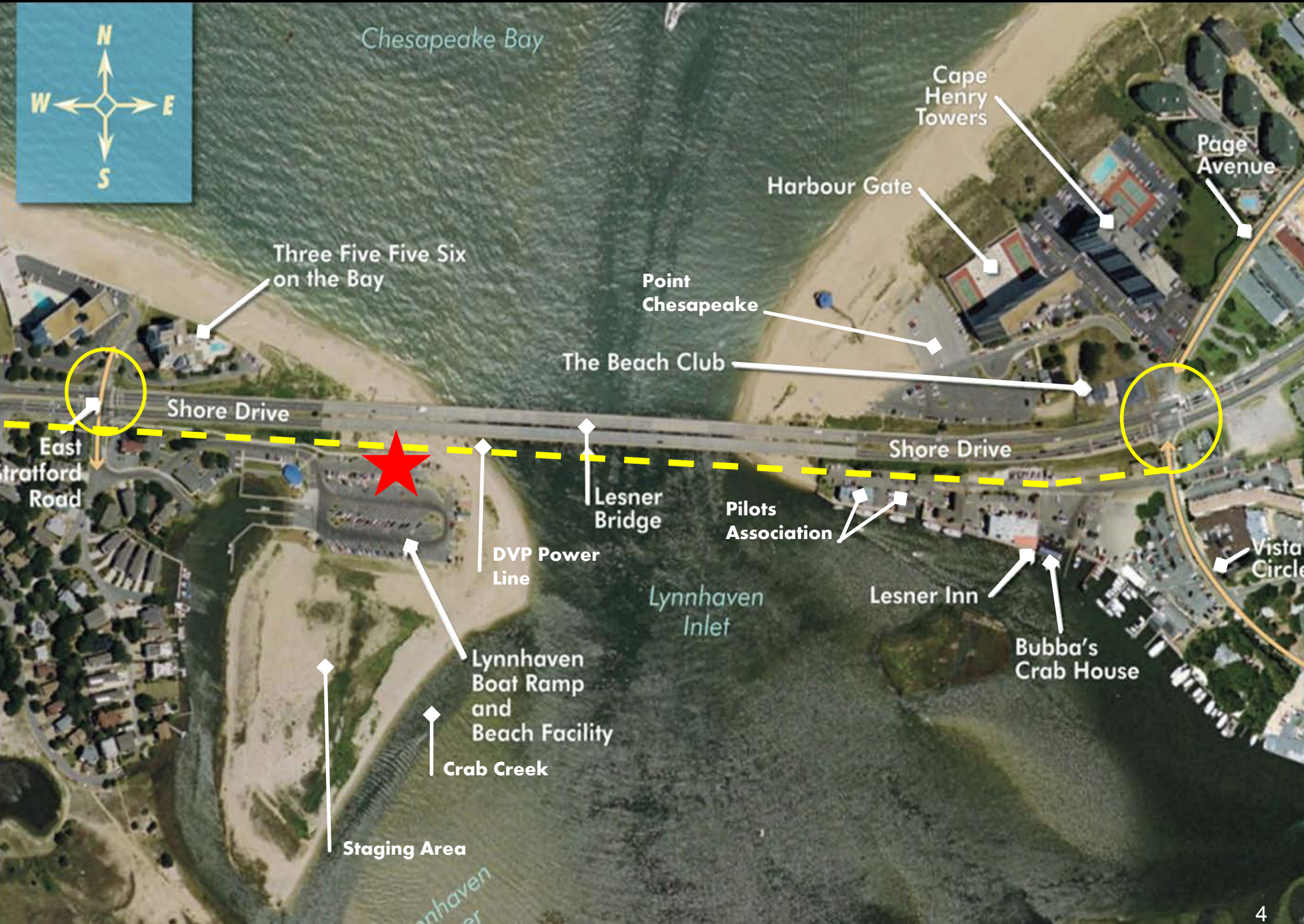






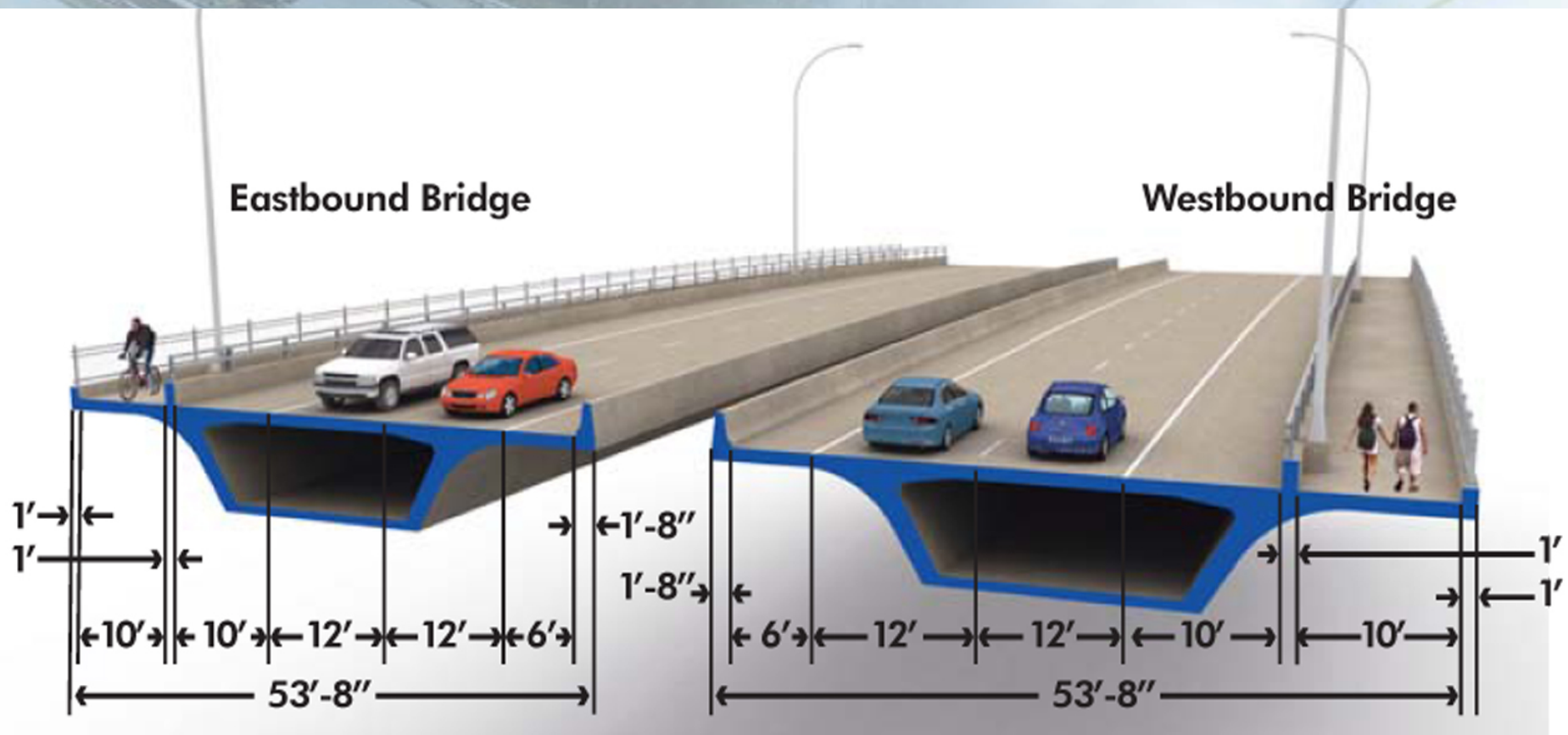


■ ■ Lesner Bridge – Box Girder and Pier Shapes

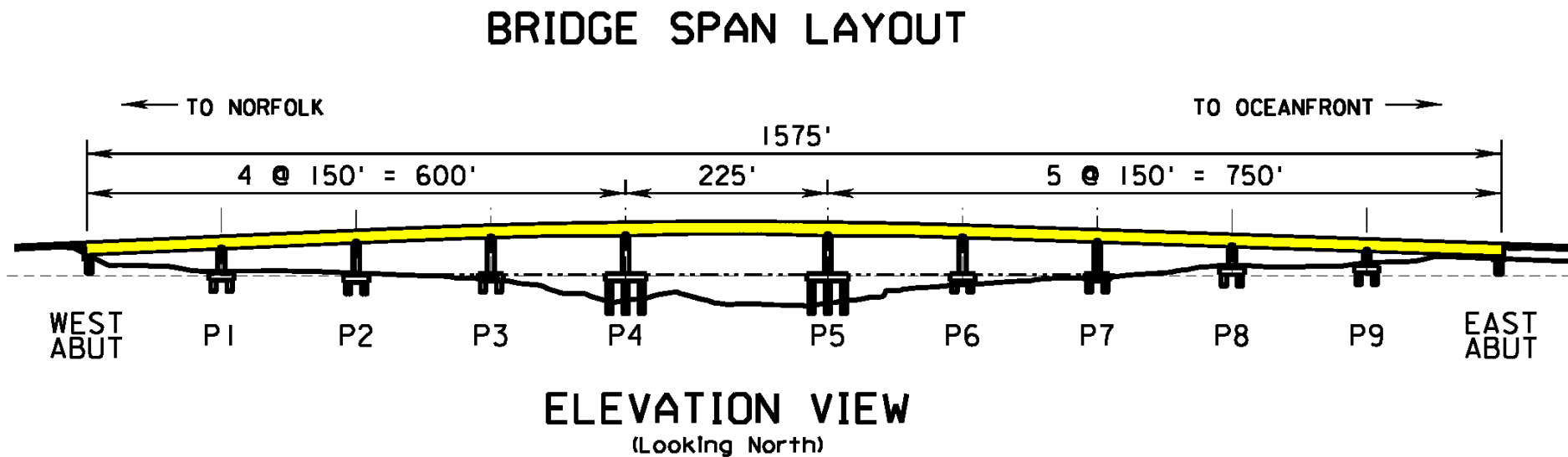
- 53' 8" Wide Box Girder
- 9' – 2" Deep Typical
- 10' 2" Deep at Main Piers
- Piers – 7' – 10" x 19' – 0"



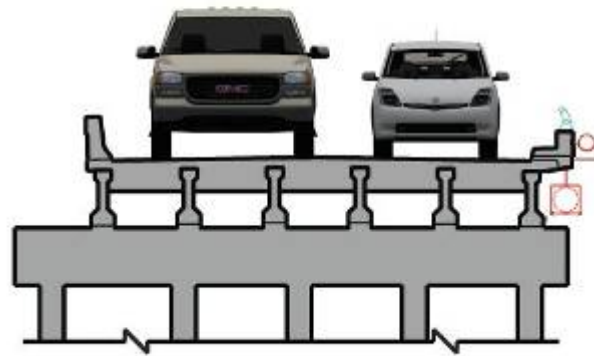
■ ■ Lesner Bridge – Cross Section & Lane Configuration



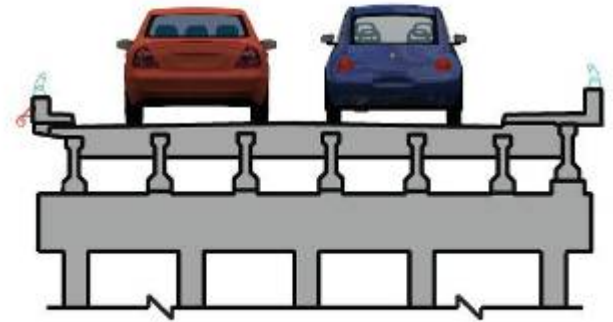
Span Layout



Step 1



Existing
Westbound

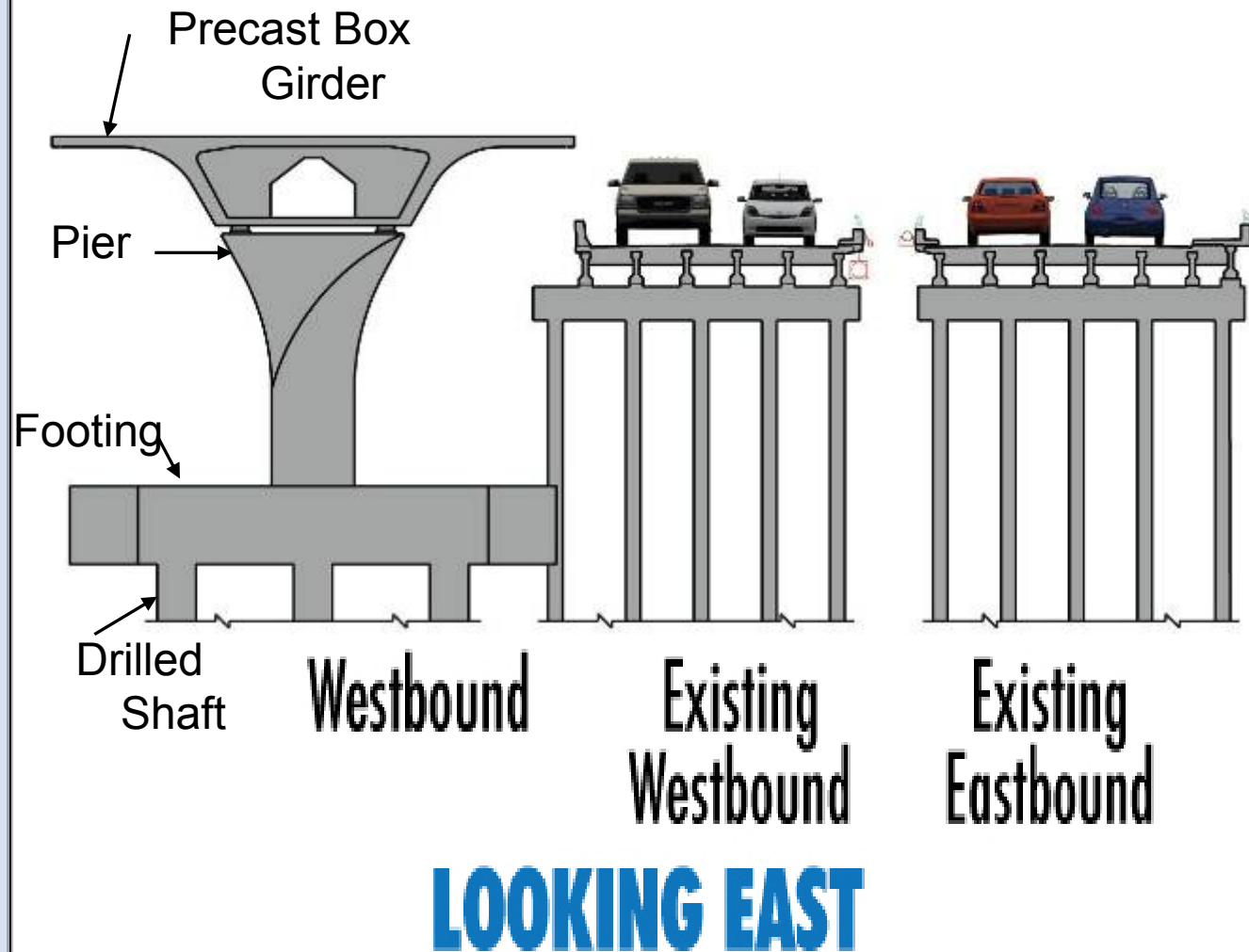


Existing
Eastbound

LOOKING EAST

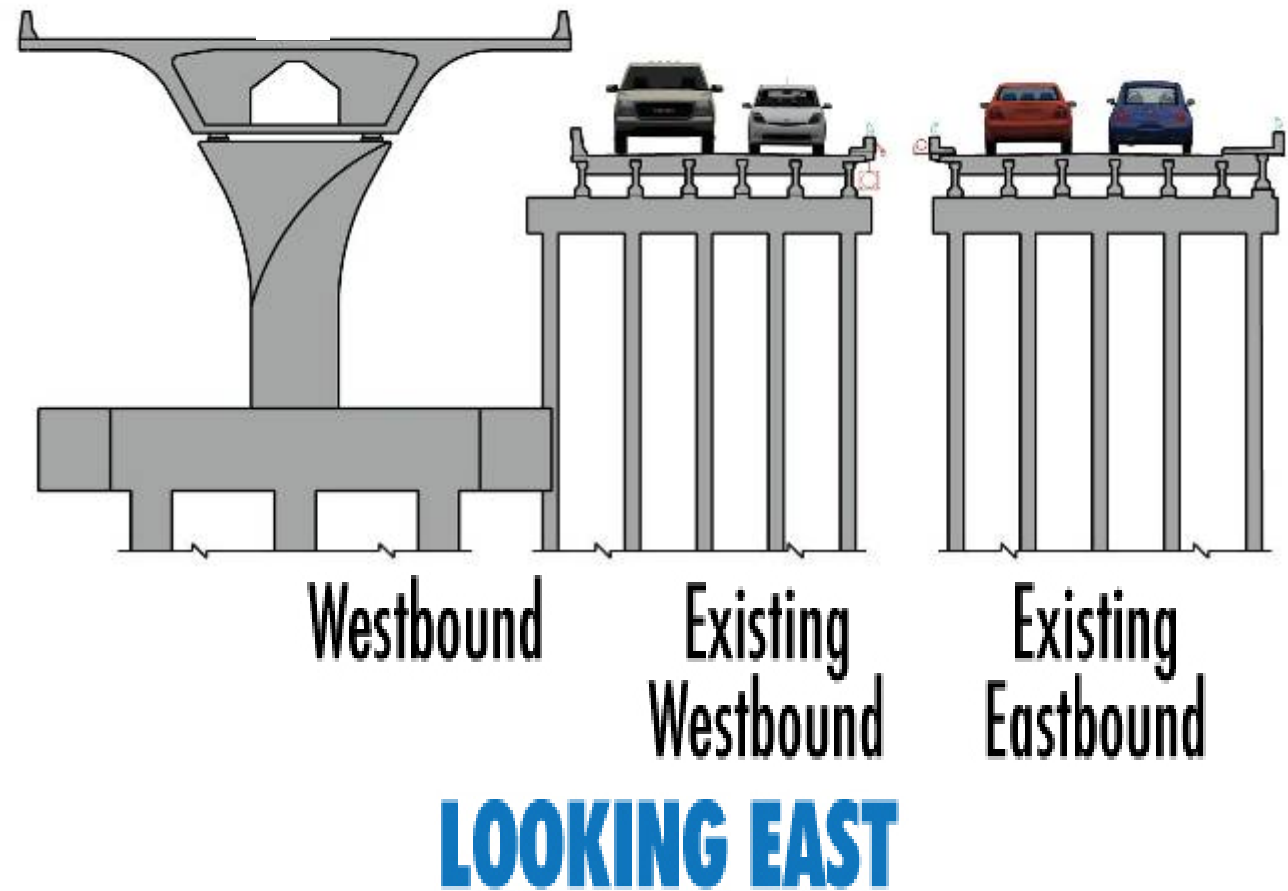
Five feet are removed from the north side of the westbound bridge, maintaining the traffic configuration with 2 lanes in each direction.

Step 2



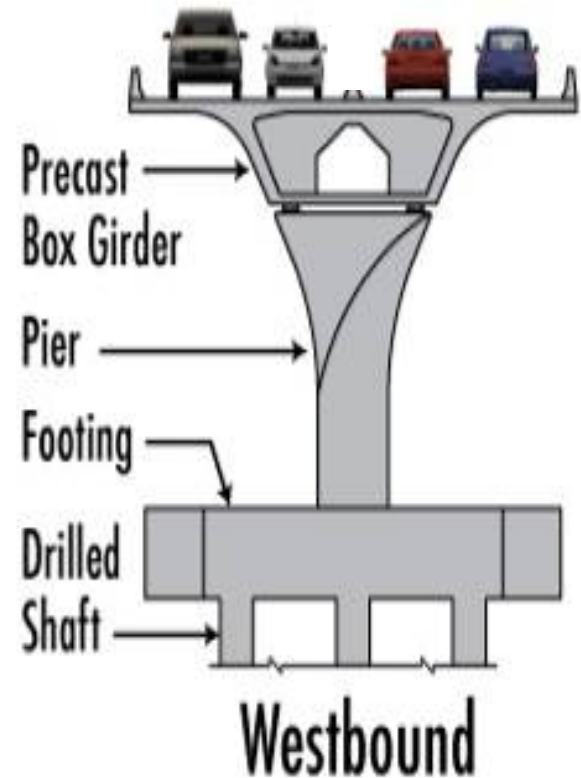
The new westbound bridge is built just to the north of the existing westbound bridge.

Step 3



The remainder of the westbound bridge is built. Once the bridge is complete, temporary barriers are placed on the structure for the temporary traffic configuration.

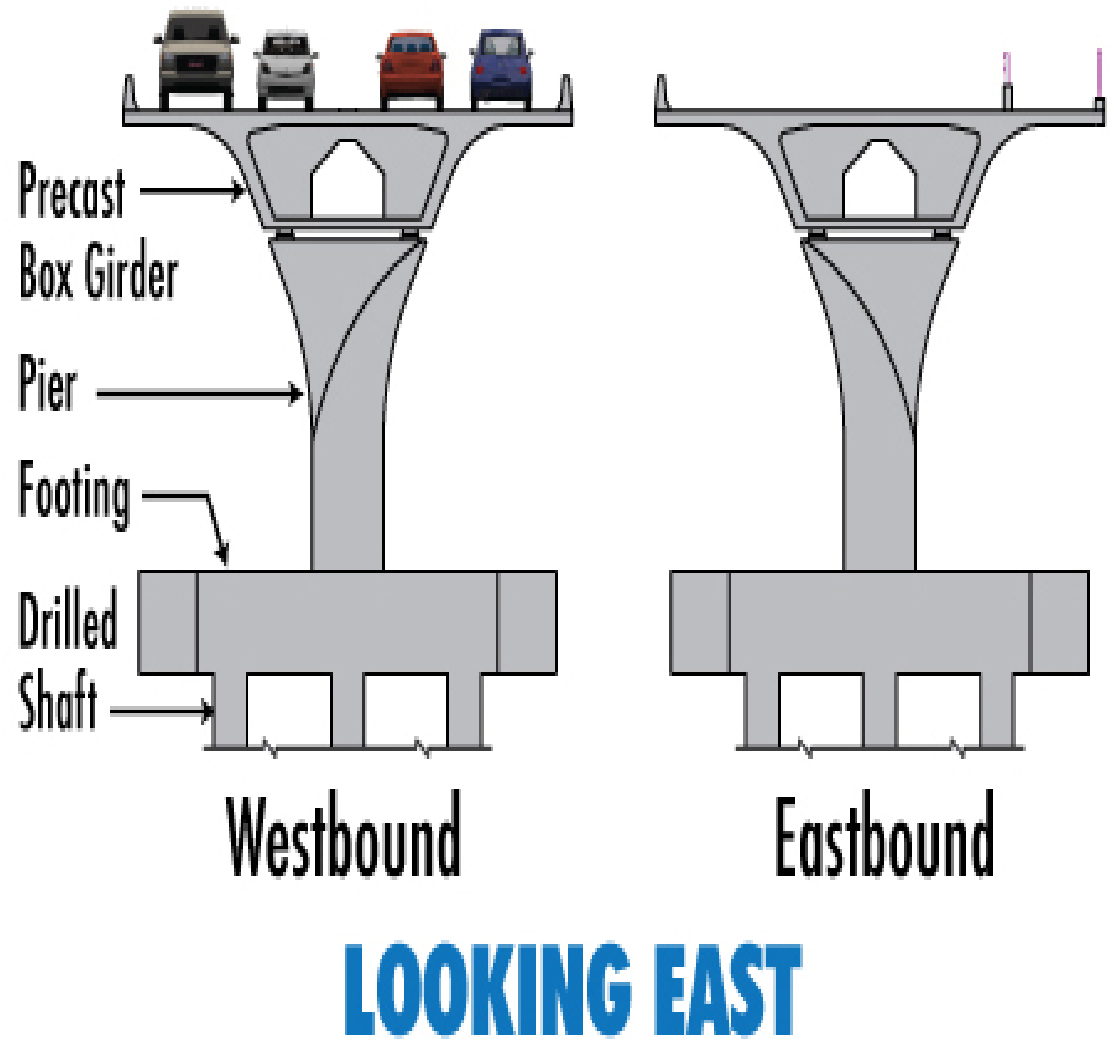
Step 4



LOOKING EAST

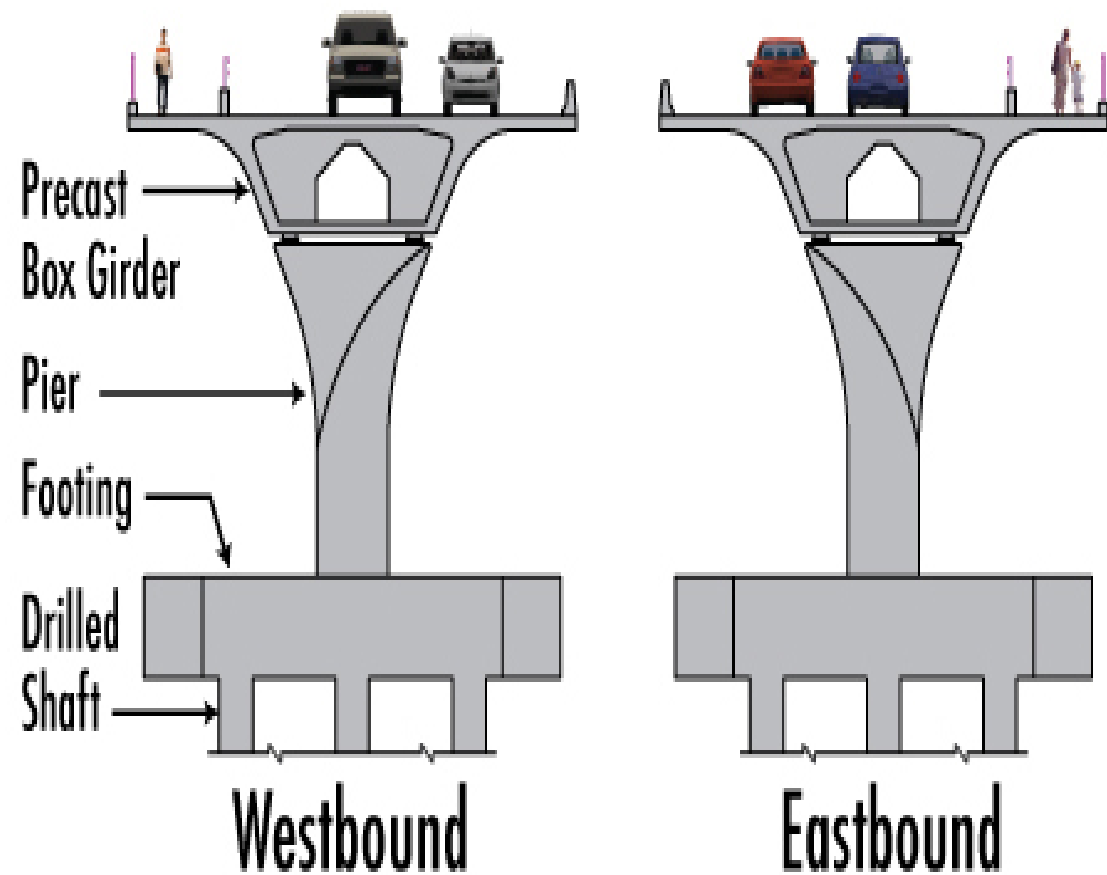
All traffic, two lanes in each direction, is moved to the new westbound bridge. The wider deck width allows for four lanes of traffic to be accommodated temporarily. Utilities are completely relocated to the new westbound bridge. Both the existing eastbound and westbound bridges are removed.

Step 5



The new eastbound bridge is constructed.

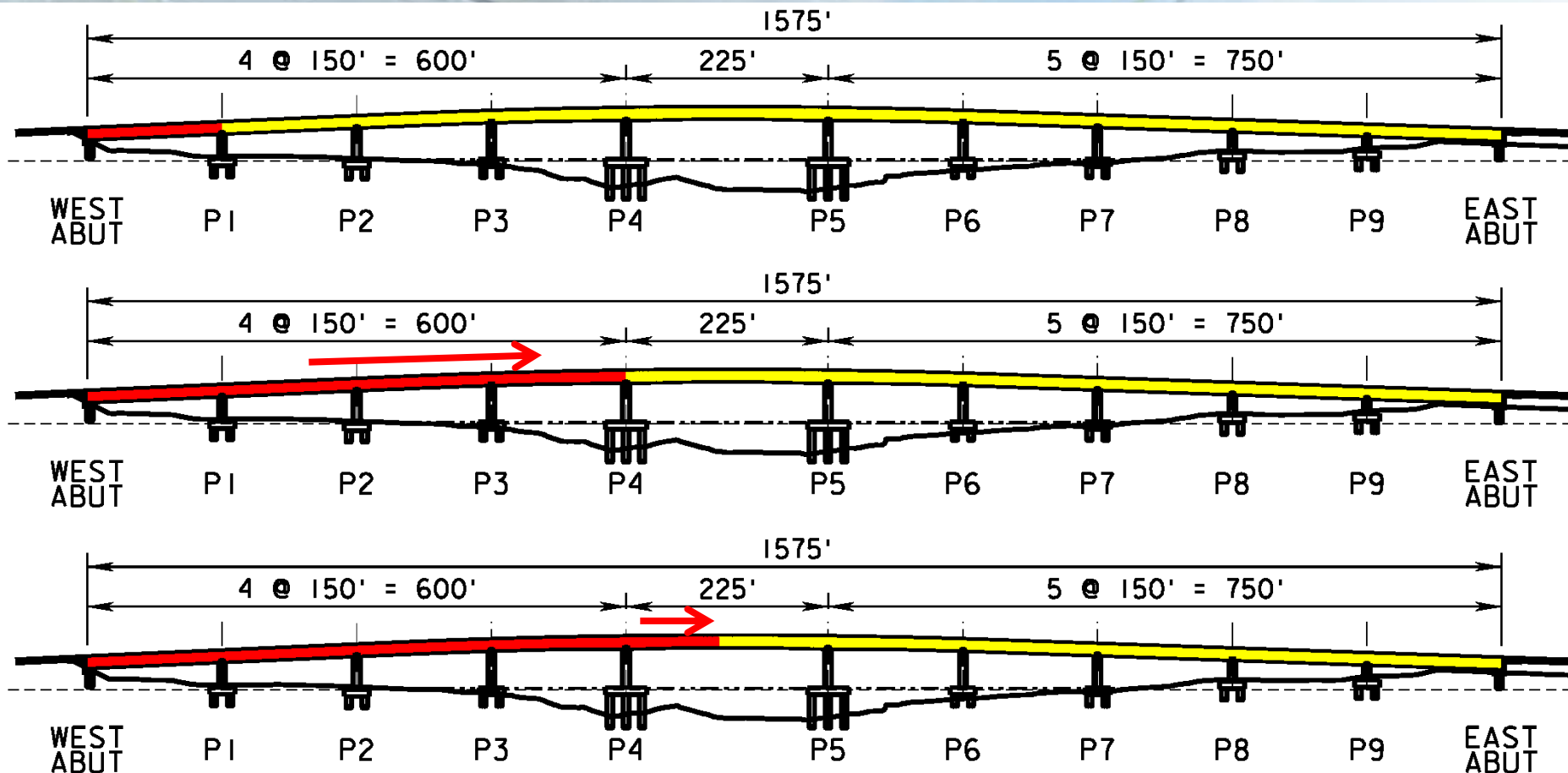
Step 6



After completion of the eastbound bridge and approach roadways, traffic is shifted to the completed structures. Sidewalk areas are also completed on westbound bridge with permanent railings.

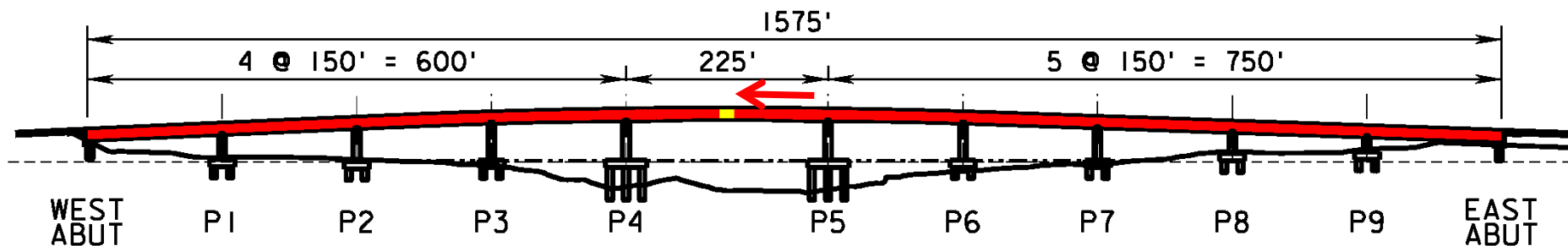
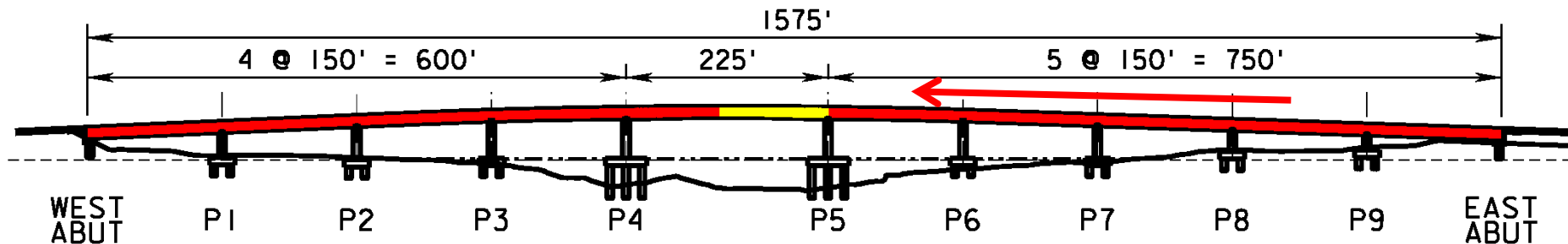
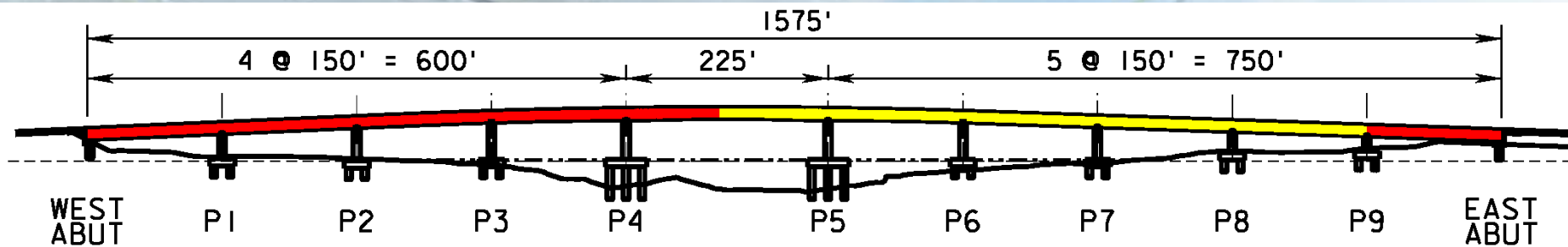
Erection Scheme Option A - Land Based Delivery

- Build from West Abutment to Channel
 - Span 1 – Span by Span
 - Spans 2 to 4 – Span by Span
 - South Half of Span 5 – Uni-Directional Cantilever (truss in Span 4)



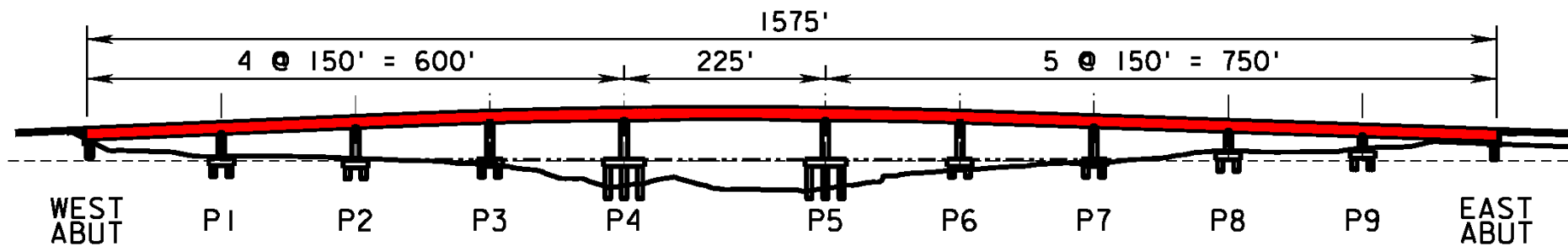
Erection Scheme Option A - Land Based Delivery

- Build from East Abutment to Channel
 - Span 10 – Span by Span
 - Spans 9 to 6 – Span by Span
 - North Half of Span 5 – Uni-Directional Cantilever (truss in Span 6)



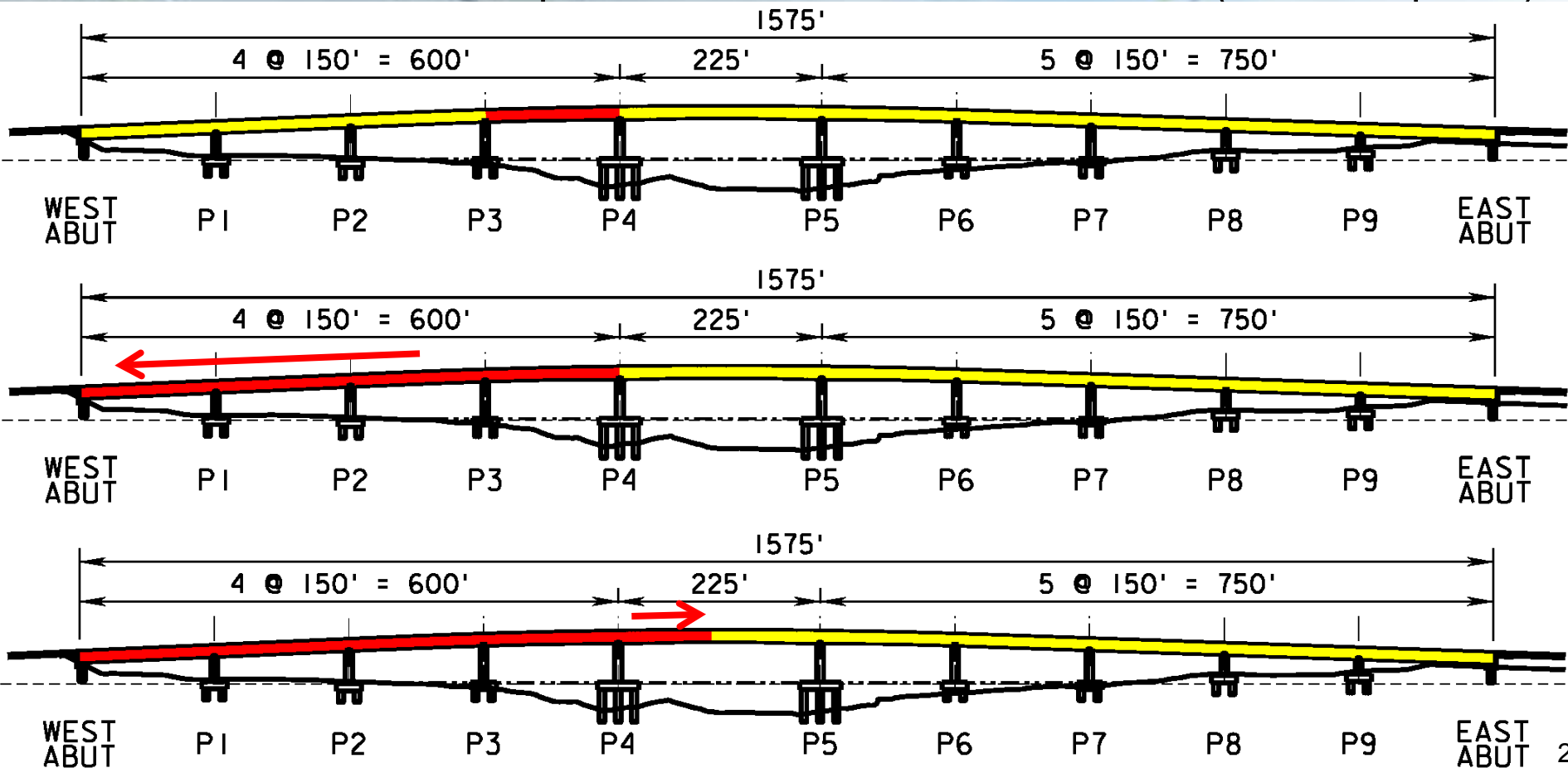
■ ■ Erection Scheme Option A - Land Based Delivery

Complete with CJ at midspan over channel



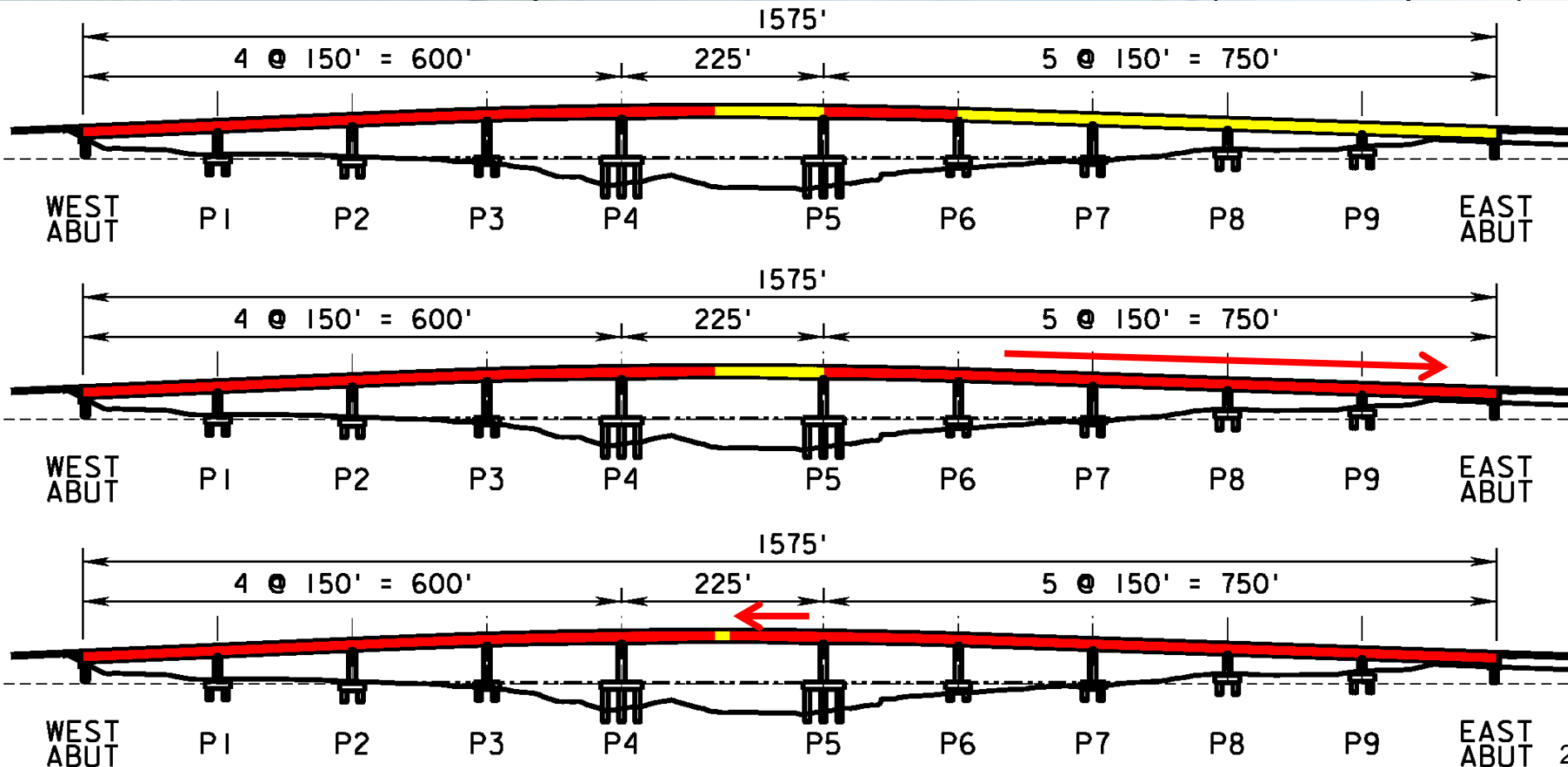
Erection Scheme Option B - Water Based Delivery

- Build from Channel to West Abutment
 - Span 4 – Span by Span
 - Spans 3 to 1 – Span by Span
 - South Half of Span 5 – Uni-Directional Cantilever (truss in Span 4)



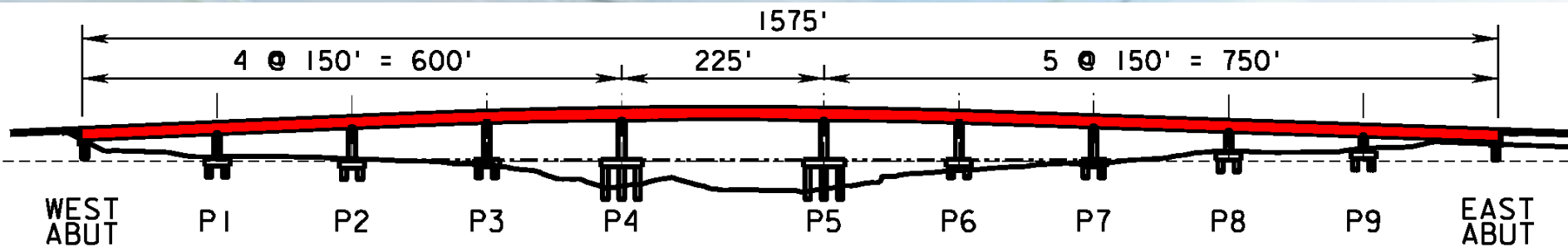
■ ■ Erection Scheme Option B - Water Based Delivery

- Build from Channel to East Abutment
 - Span 6 – Span by Span
 - Spans 7 to 10 – Span by Span
 - North Half of Span 5 – Uni-Directional Cantilever (truss in Span 6)



■ ■ Erection Scheme Option B - Water Based Delivery

Complete with CJ at midspan over channel



■ ■ CRR Reinforcing Steel

- Most of Reinforcing Steel in bridge is CRR Class I (Low Carbon/Chromium)
- Small amount of CRR Class III (Solid Stainless)
 - located in piers to conceal accent lighting for piers
- No Black Reinforcing Steel in bridge



■ ■ Pier Orientation: Curves Alternating Sides



■ ■ Lesner Bridge – Stain



- All visible surfaces of box girder, piers, footings, abutments, barriers, curbs & MSE walls to be stained per specifications – stain color same as local beach sand.



■ ■ Railing Details: Deep Sea Blue

