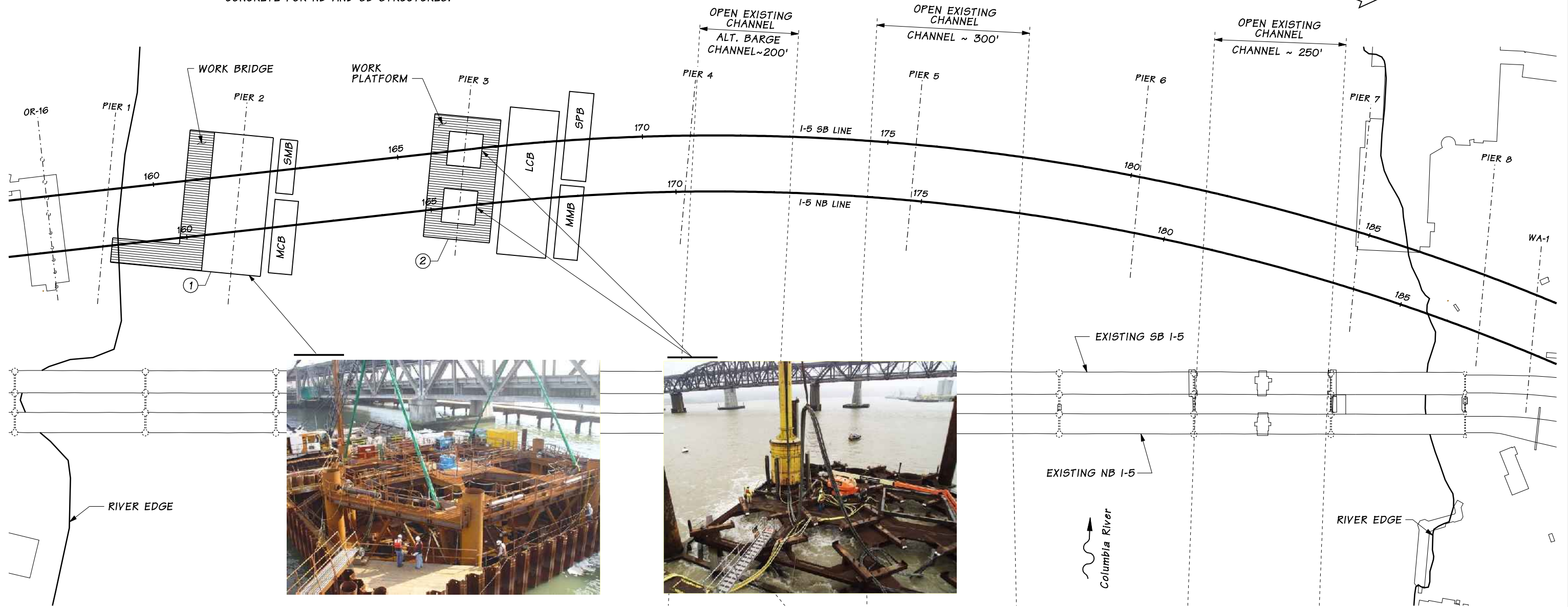


DRAFT

CONSTRUCTION SEQUENCE:

- ① INSTALL COFFERDAM AND WORK BRIDGE AT PIER 2 FOR CONSTRUCTION OF NB AND SB SHAFT CAPS.
- ② INSTALL TEMPORARY WORKS AT PIER 3, INSTALL SHAFTS, CLEAN-OUT, INSTALL REINFORCING, AND PLACE SHAFT CONCRETE FOR NB AND SB STRUCTURES.



- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
- MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
- MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL

NOT FOR CONSTRUCTION
NOVEMBER 11, 2009

PHASE 1

COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN

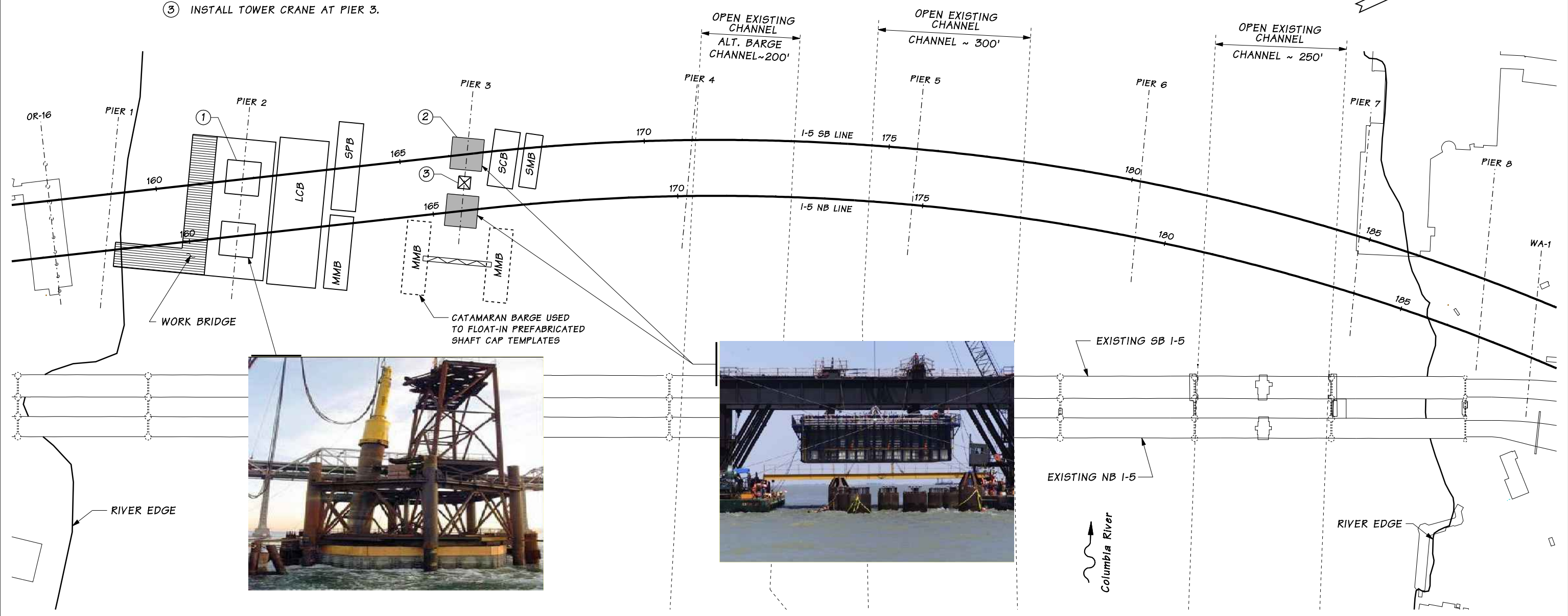


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DRAFT

CONSTRUCTION SEQUENCE:

- ① INSTALL TEMPORARY WORKS AT PIER 2, INSTALL SHAFTS, CLEAN-OUT, INSTALL REINFORCING, AND PLACE SHAFT CONCRETE FOR NB AND SB STRUCTURES.
- ② FLOAT-IN PREFABRICATED SHAFT CAP AT PIER 3, CONSTRUCT NB AND SB SHAFT CAPS.
- ③ INSTALL TOWER CRANE AT PIER 3.



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
- MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
- MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL
NOT FOR CONSTRUCTION
NOVEMBER 11, 2009

PHASE 2

COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN

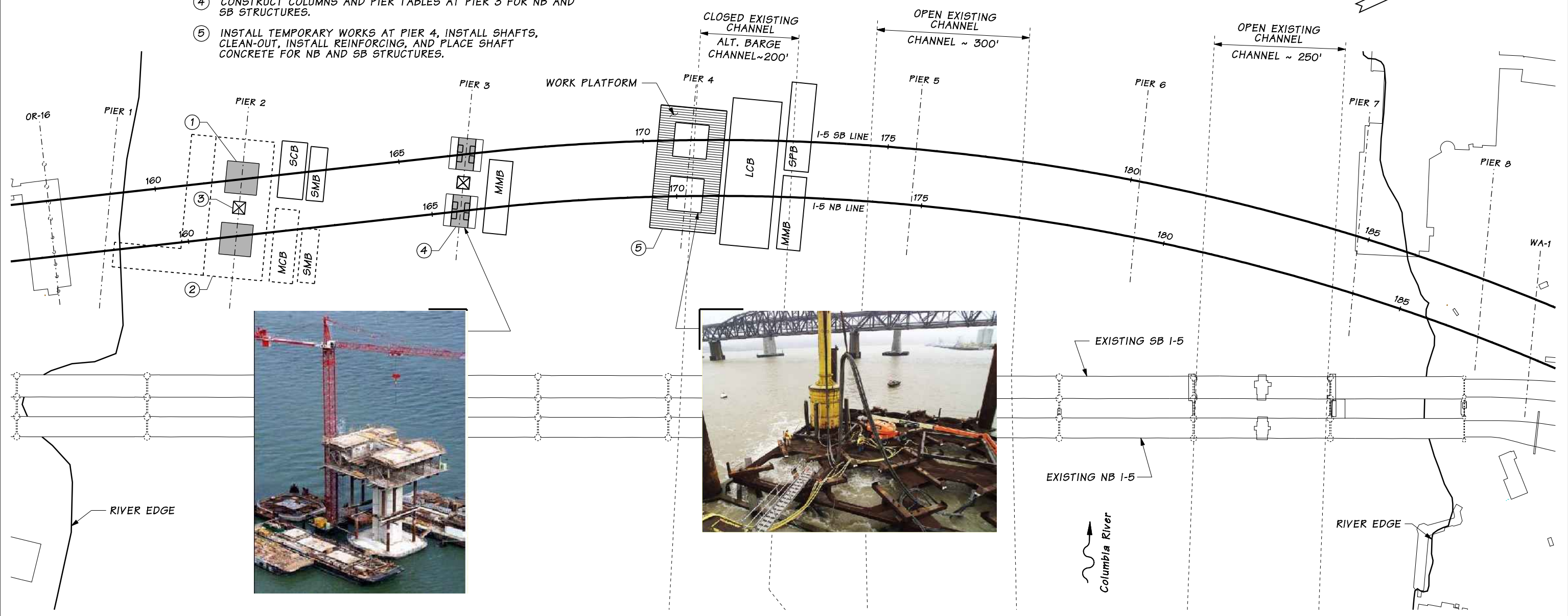
Columbia River
CROSSING

\$DATE\$ 9:41:01 AM \$FILEL\$

DRAFT

CONSTRUCTION SEQUENCE:

- ① CONSTRUCT SHAFT CAPS AT PIER 2 FOR NB AND SB STRUCTURES.
- ② REMOVE COFFERDAM AND WORK BRIDGE AT PIER 2.
- ③ INSTALL TOWER CRANE AT PIER 2.
- ④ CONSTRUCT COLUMNS AND PIER TABLES AT PIER 3 FOR NB AND SB STRUCTURES.
- ⑤ INSTALL TEMPORARY WORKS AT PIER 4, INSTALL SHAFTS, CLEAN-OUT, INSTALL REINFORCING, AND PLACE SHAFT CONCRETE FOR NB AND SB STRUCTURES.



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
- MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
- MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL
 NOT FOR CONSTRUCTION
 NOVEMBER 11, 2009

PHASE 3

COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN

Columbia River
CROSSING

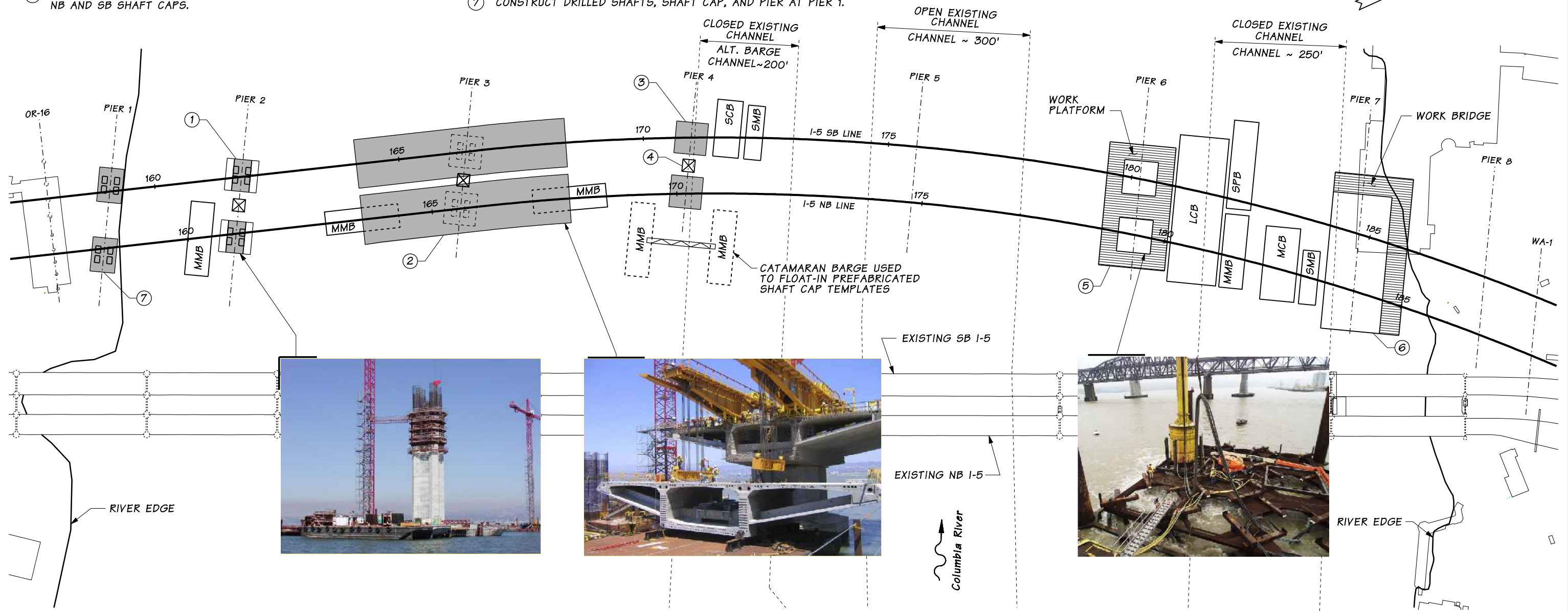
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CONSTRUCTION SEQUENCE:

- ① CONSTRUCT COLUMNS AND PIER TABLES AT PIER 2 FOR NB AND SB STRUCTURES.
- ② ERECT BALANCED CANTILEVERS AT PIER 3 FOR NB AND SB STRUCTURES.
- ③ FLOAT-IN PREFABRICATED SHAFT CAP AT PIER 4, CONSTRUCT NB AND SB SHAFT CAPS.

- ④ ERECT TOWER CRANE AT PIER 4.
- ⑤ INSTALL TEMPORARY WORKS AT PIER 6, INSTALL SHAFTS, CLEAN-OUT, INSTALL REINFORCING, AND PLACE SHAFT CONCRETE FOR NB AND SB STRUCTURES.
- ⑥ INSTALL COFFERDAM AND WORKBRIDGE AT PIER 7 FOR CONSTRUCTION OF NB AND SB PILECAPS.
- ⑦ CONSTRUCT DRILLED SHAFTS, SHAFT CAP, AND PIER AT PIER 1.

DRAFT



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
- MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
- MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL

NOT FOR CONSTRUCTION
NOVEMBER 11, 2009

PHASE 4

COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN

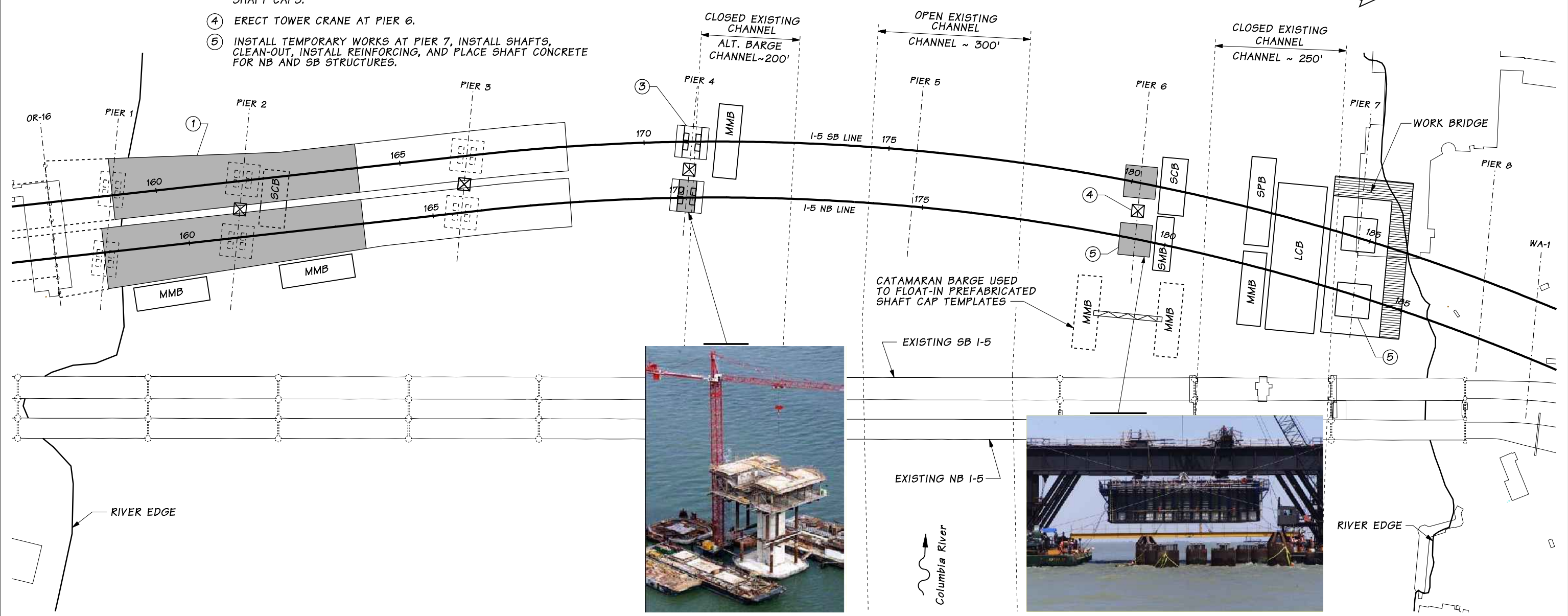
Columbia River
CROSSING

\$DATE\$ 10-07-15 AM FILEL\$

CONSTRUCTION SEQUENCE:

- ① ERECT BALANCED CANTILEVERS AT PIER 2 FOR NB AND SB STRUCTURES.
- ② CONSTRUCT COLUMNS AND PIERS TABLES AT PIER 4 FOR NB AND SB STRUCTURES.
- ③ FLOAT-IN PREFABRICATED SHAFT CAP AT PIER 6, CONSTRUCT NB AND SB SHAFT CAPS.
- ④ ERECT TOWER CRANE AT PIER 6.
- ⑤ INSTALL TEMPORARY WORKS AT PIER 7, INSTALL SHAFTS, CLEAN-OUT, INSTALL REINFORCING, AND PLACE SHAFT CONCRETE FOR NB AND SB STRUCTURES.

DRAFT



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
- MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
- MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL
 NOT FOR CONSTRUCTION
 NOVEMBER 11, 2009

PHASE 5

**COLUMBIA RIVER BRIDGE
 CONSTRUCTION SEQUENCE**

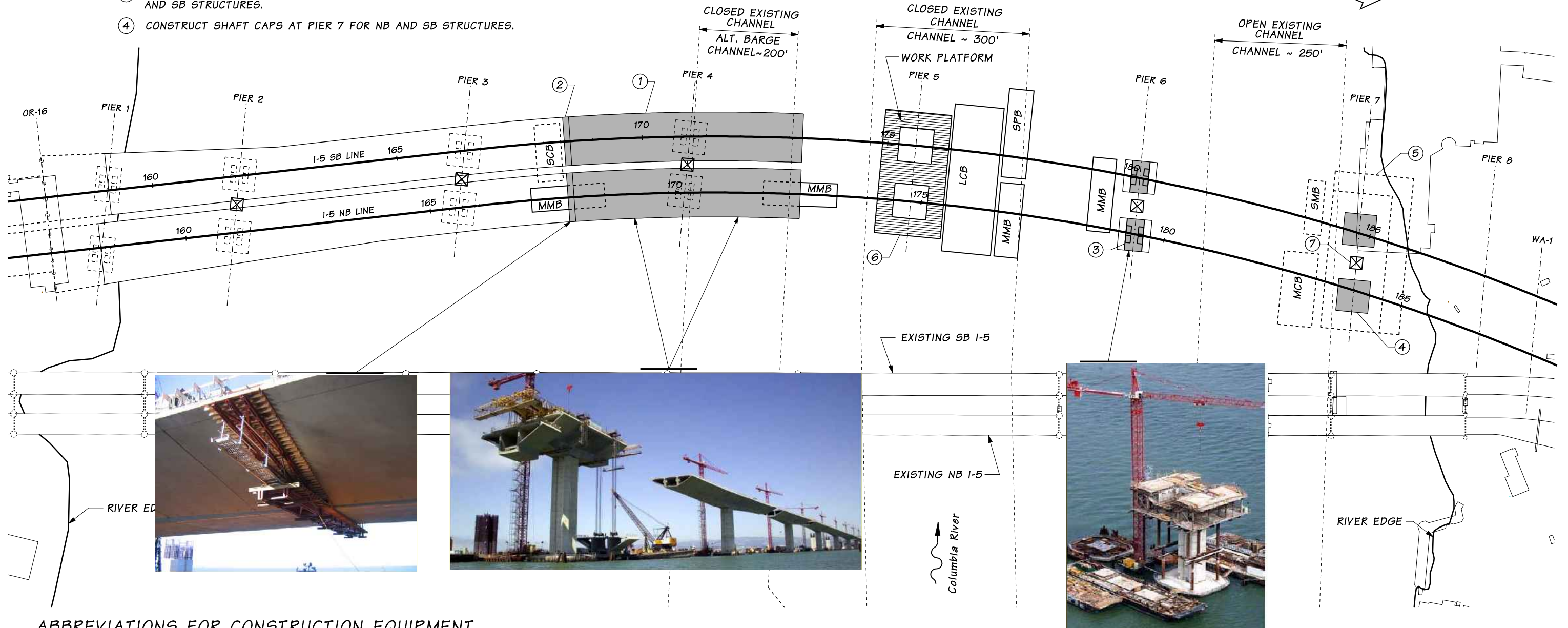
CONCEPTUAL DESIGN
Columbia River
CROSSING

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CONSTRUCTION SEQUENCE:

- ① ERECT BALANCED CANTILEVERS AT PIER 4 FOR NB AND SB STRUCTURES.
- ② CAST MIDSPAN CLOSURE BETWEEN PIERS 3 AND 4 FOR NB AND SB STRUCTURES.
- ③ CONSTRUCT COLUMNS AND PIER TABLES AT PIER 6 FOR NB AND SB STRUCTURES.
- ④ CONSTRUCT SHAFT CAPS AT PIER 7 FOR NB AND SB STRUCTURES.
- ⑤ REMOVE COFFERDAM AND WORK BRIDGE AT PIER 7.
- ⑥ INSTALL TEMPORARY WORKS AT PIER 5, INSTALL SHAFTS, CLEAN-OUT, INSTALL REINFORCING, AND PLACE SHAFT CONCRETE FOR NB AND SB STRUCTURES.
- ⑦ INSTALL TOWER CRANE AT PIER 7.

DRAFT



- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
- MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
- MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL

NOT FOR CONSTRUCTION
NOVEMBER 11, 2009

PHASE 6

COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN

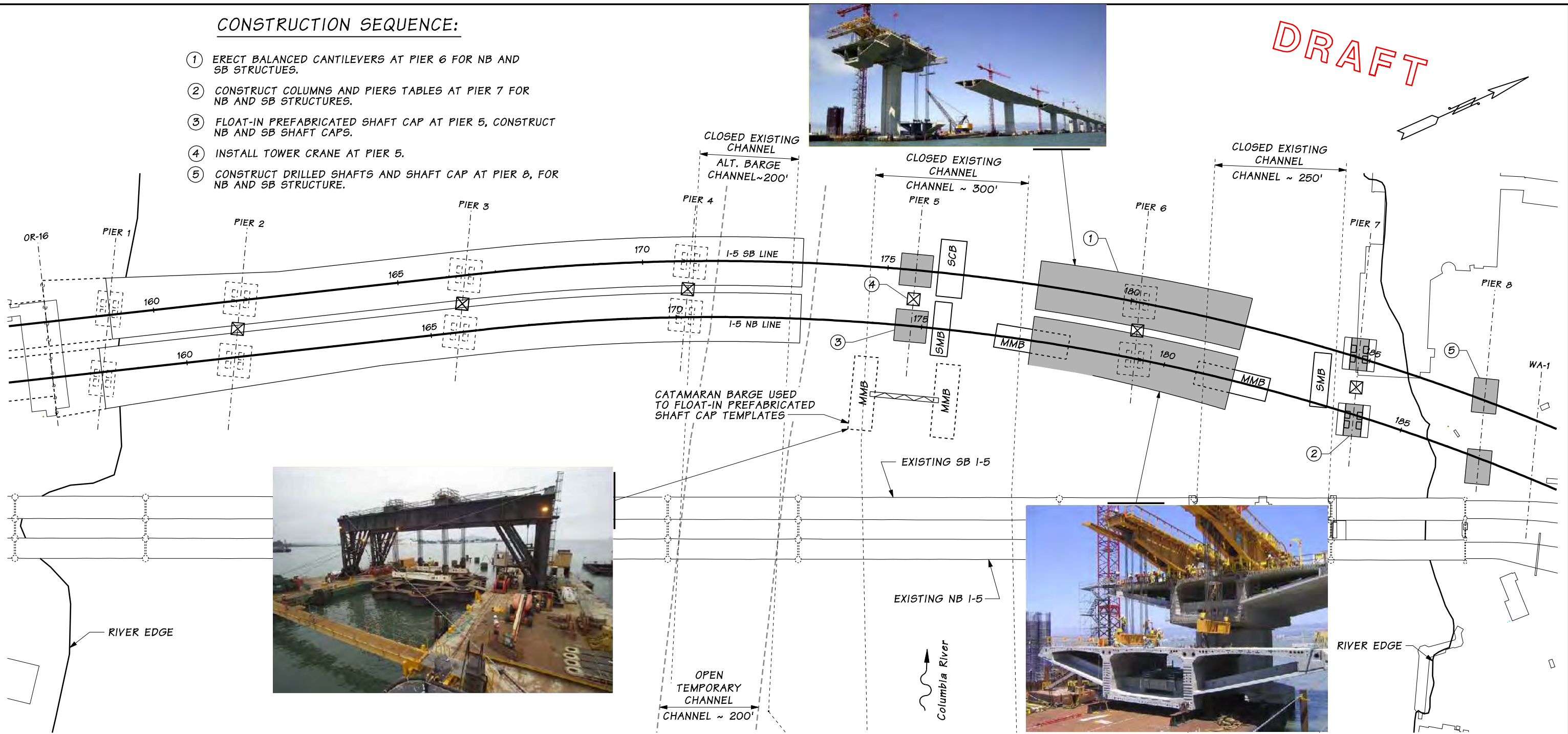


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CONSTRUCTION SEQUENCE:

- ① ERECT BALANCED CANTILEVERS AT PIER 6 FOR NB AND SB STRUCTURES.
- ② CONSTRUCT COLUMNS AND PIERS TABLES AT PIER 7 FOR NB AND SB STRUCTURES.
- ③ FLOAT-IN PREFABRICATED SHAFT CAP AT PIER 5, CONSTRUCT NB AND SB SHAFT CAPS.
- ④ INSTALL TOWER CRANE AT PIER 5.
- ⑤ CONSTRUCT DRILLED SHAFTS AND SHAFT CAP AT PIER 8, FOR NB AND SB STRUCTURE.

DRAFT



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
- MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
- MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL

NOT FOR CONSTRUCTION
NOVEMBER 11, 2009

PHASE 7

COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN

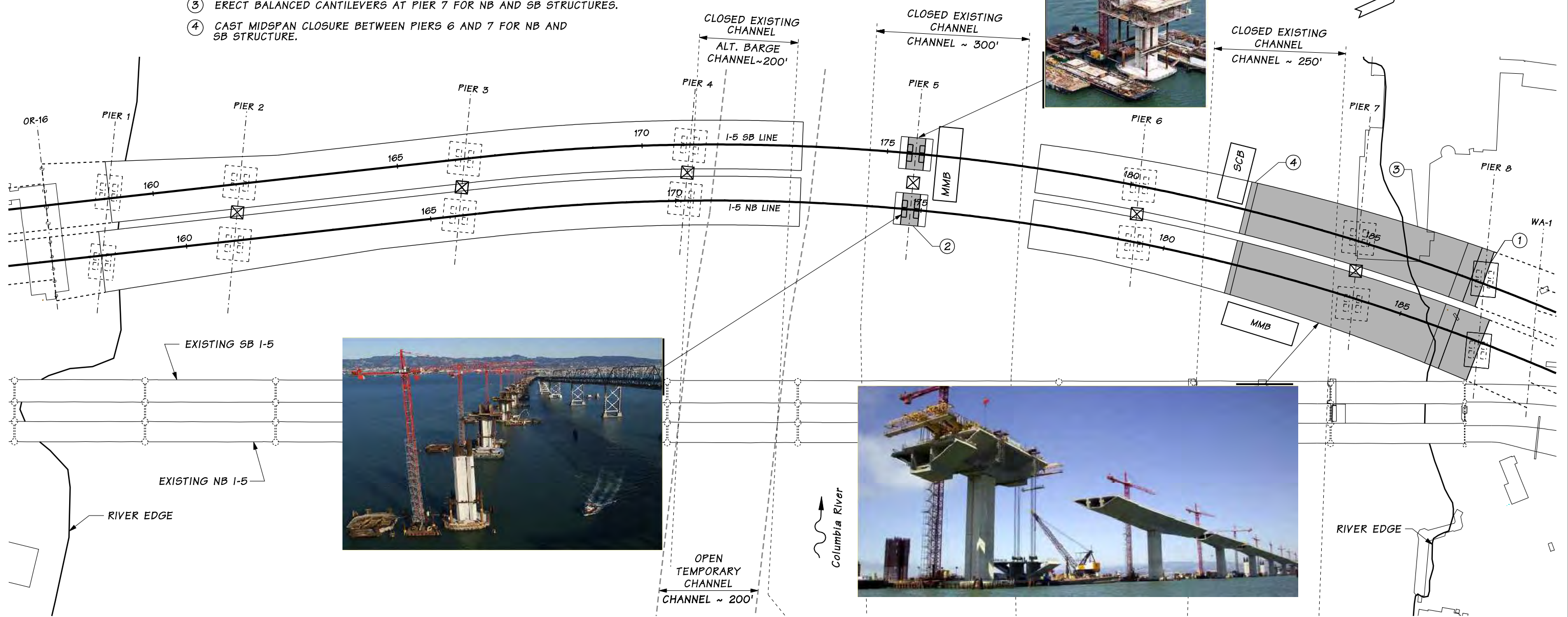


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CONSTRUCTION SEQUENCE:

- ① CONSTRUCT COLUMNS AND BENT CAPS AT PIER 8 FOR NB AND SB STRUCTURE USING A LAND-BASED CRANE.
- ② CONSTRUCT COLUMNS AND PIER TABLES AT PIER 5 FOR NB AND SB STRUCTURES.
- ③ ERECT BALANCED CANTILEVERS AT PIER 7 FOR NB AND SB STRUCTURES.
- ④ CAST MIDSPAN CLOSURE BETWEEN PIERS 6 AND 7 FOR NB AND SB STRUCTURE.

DRAFT



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
- MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
- MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL

NOT FOR CONSTRUCTION
NOVEMBER 11, 2009

PHASE 8

COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN

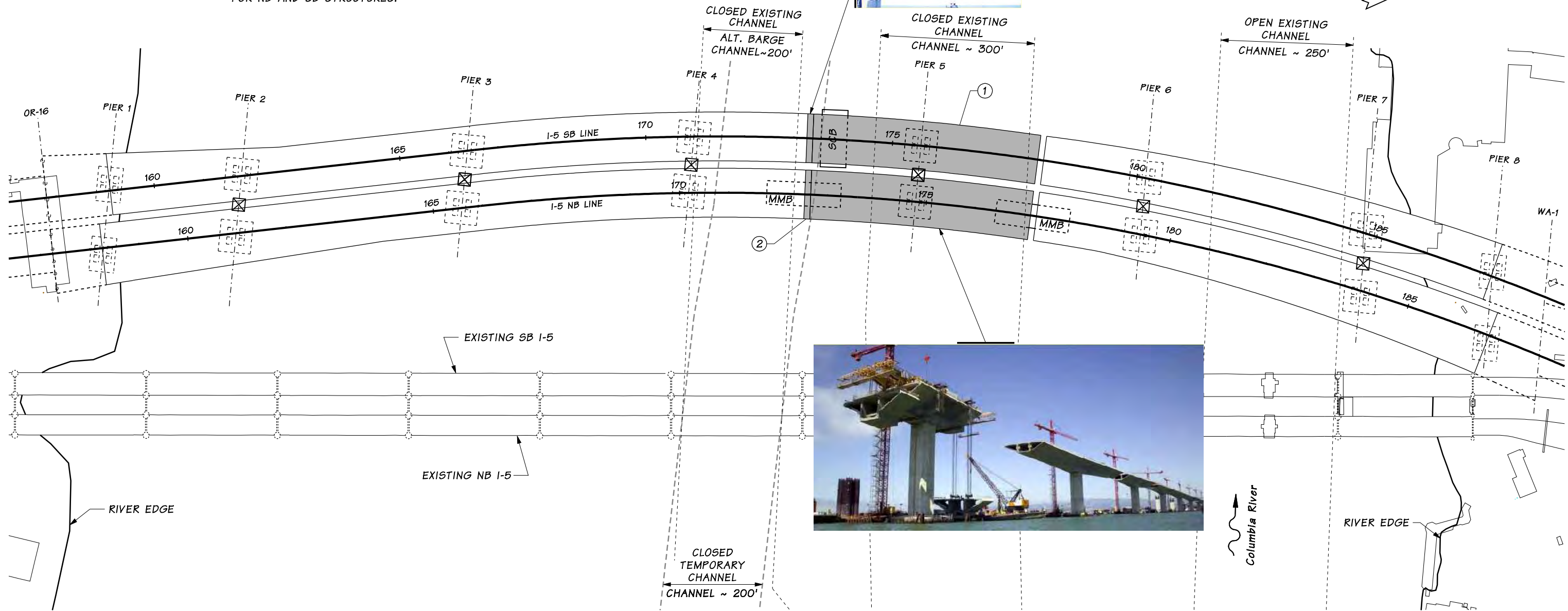


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DRAFT

CONSTRUCTION SEQUENCE:

- ① ERECT BALANCED CANTILEVERS AT PIER 5 FOR NB AND SB STRUCTURES.
- ② CAST MIDSPAN CLOSURE BETWEEN PIERS 4 AND 5 FOR NB AND SB STRUCTURES.



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
- MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
- MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL
 NOT FOR CONSTRUCTION
 NOVEMBER 11, 2009

PHASE 9

COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN

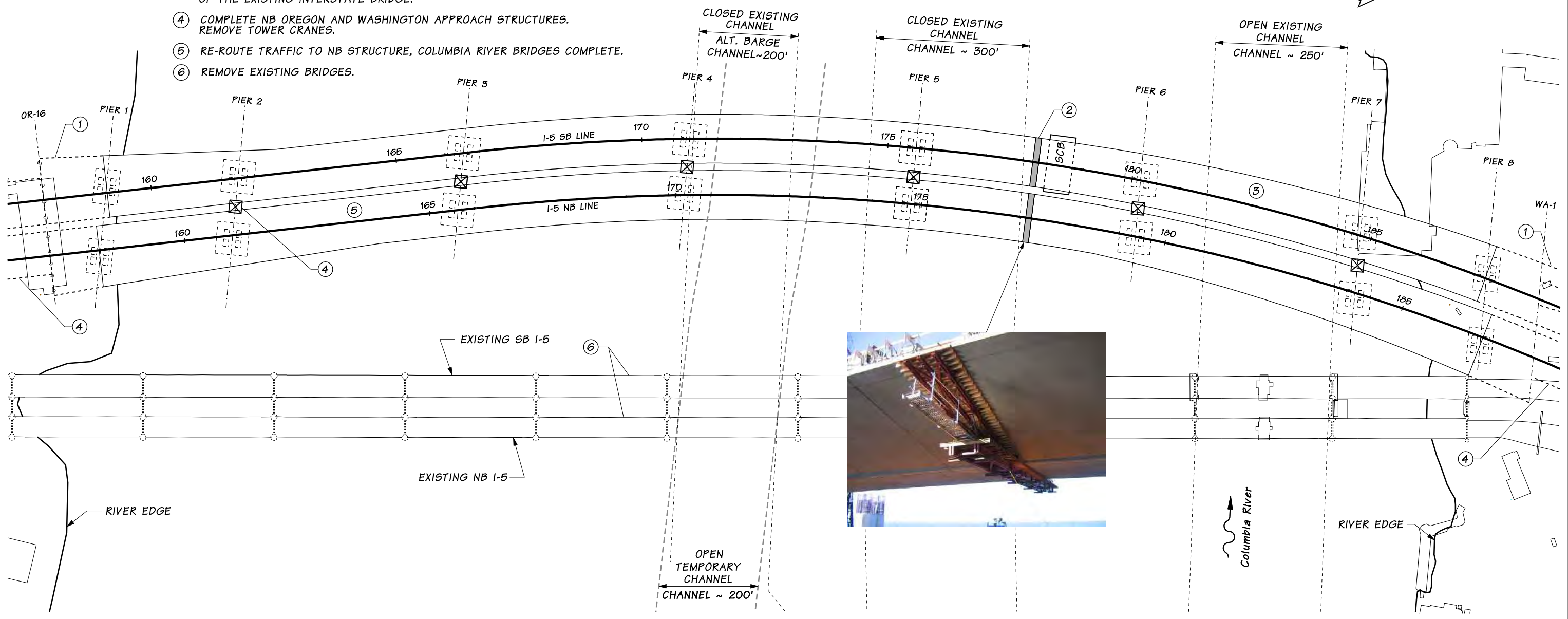


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DRAFT

CONSTRUCTION SEQUENCE:

- ① COMPLETE SB OREGON AND WASHINGTON APPROACH STRUCTURES.
- ② CAST MIDSPAN CLOSURE BETWEEN PIERS 5 AND 6 FOR NB AND SB STRUCTURES.
- ③ RE-ROUTE TRAFFIC TO SB STRUCTURE TO BEGIN DEMOLITION OF THE EXISTING INTERSTATE BRIDGE.
- ④ COMPLETE NB OREGON AND WASHINGTON APPROACH STRUCTURES. REMOVE TOWER CRANES.
- ⑤ RE-ROUTE TRAFFIC TO NB STRUCTURE, COLUMBIA RIVER BRIDGES COMPLETE.
- ⑥ REMOVE EXISTING BRIDGES.



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
- MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
- MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL
 NOT FOR CONSTRUCTION
 NOVEMBER 11, 2009

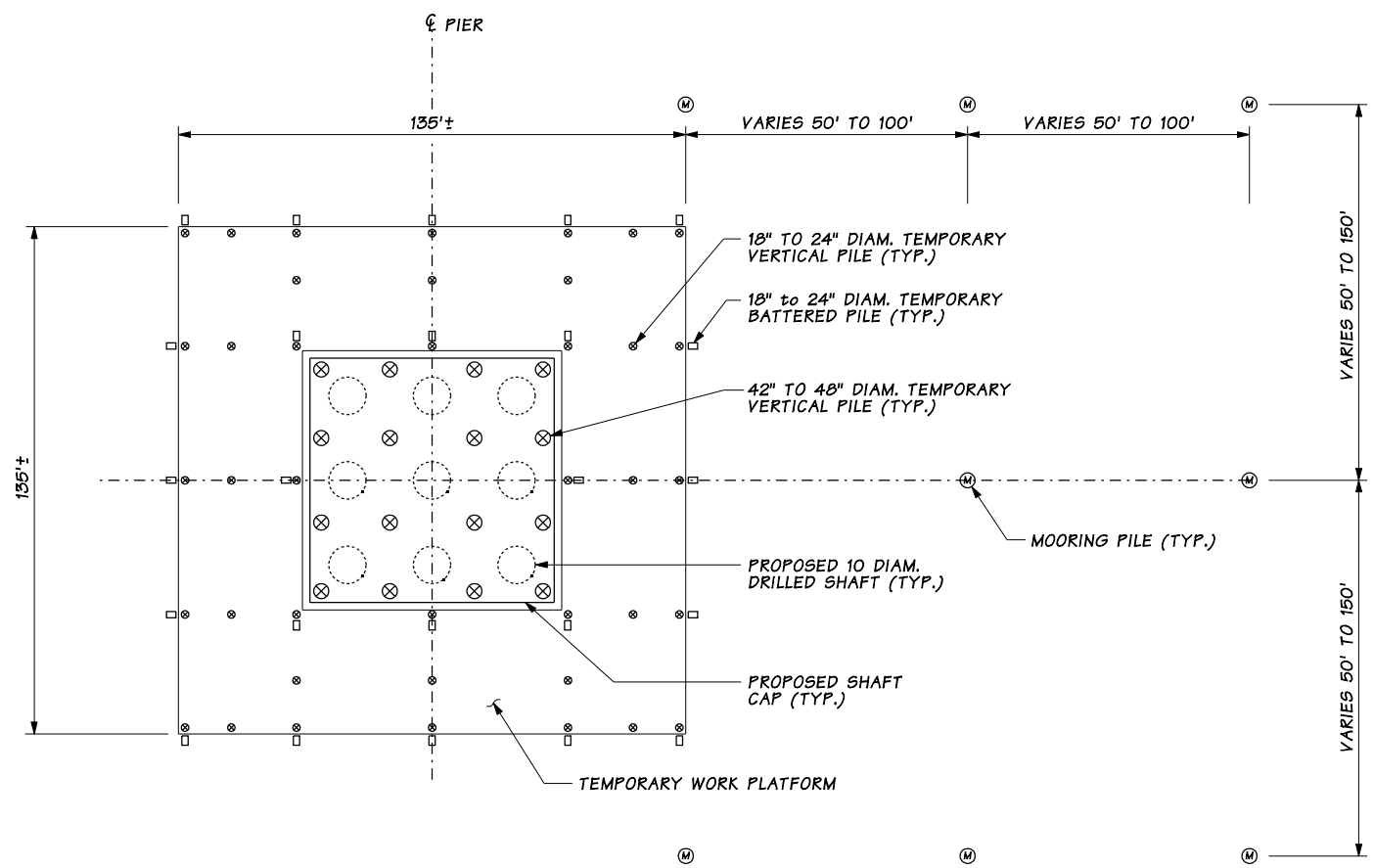
PHASE 10

COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN
Columbia River
CROSSING

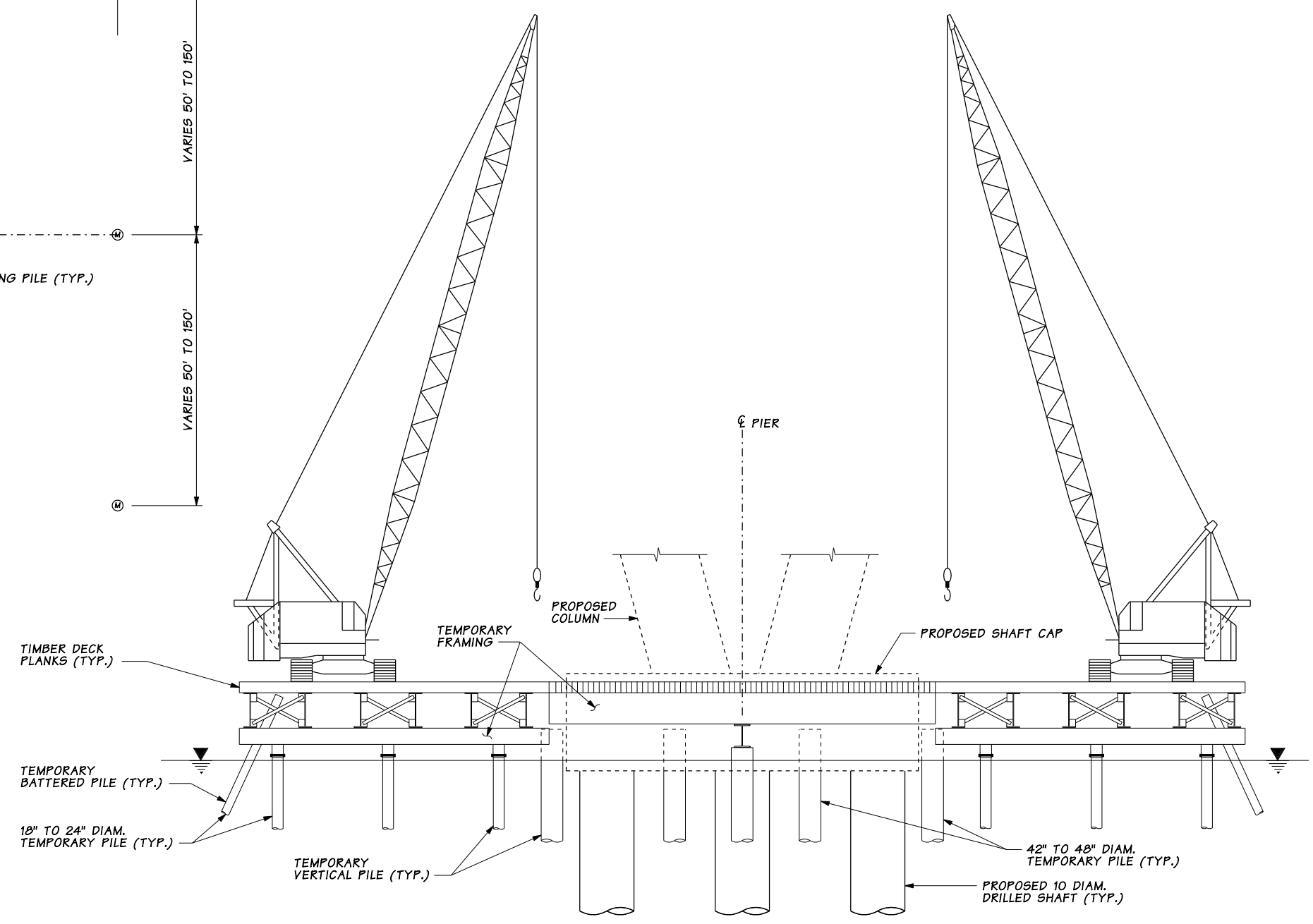
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DRAFT



PLAN

NOTE: 1/2 of a work structure as described in Section 3.



ELEVATION

CONCEPTUAL
 NOT FOR CONSTRUCTION
 NOVEMBER 11, 2009

CONCEPTUAL TEMPORARY WORKS
 CONCEPT - 1

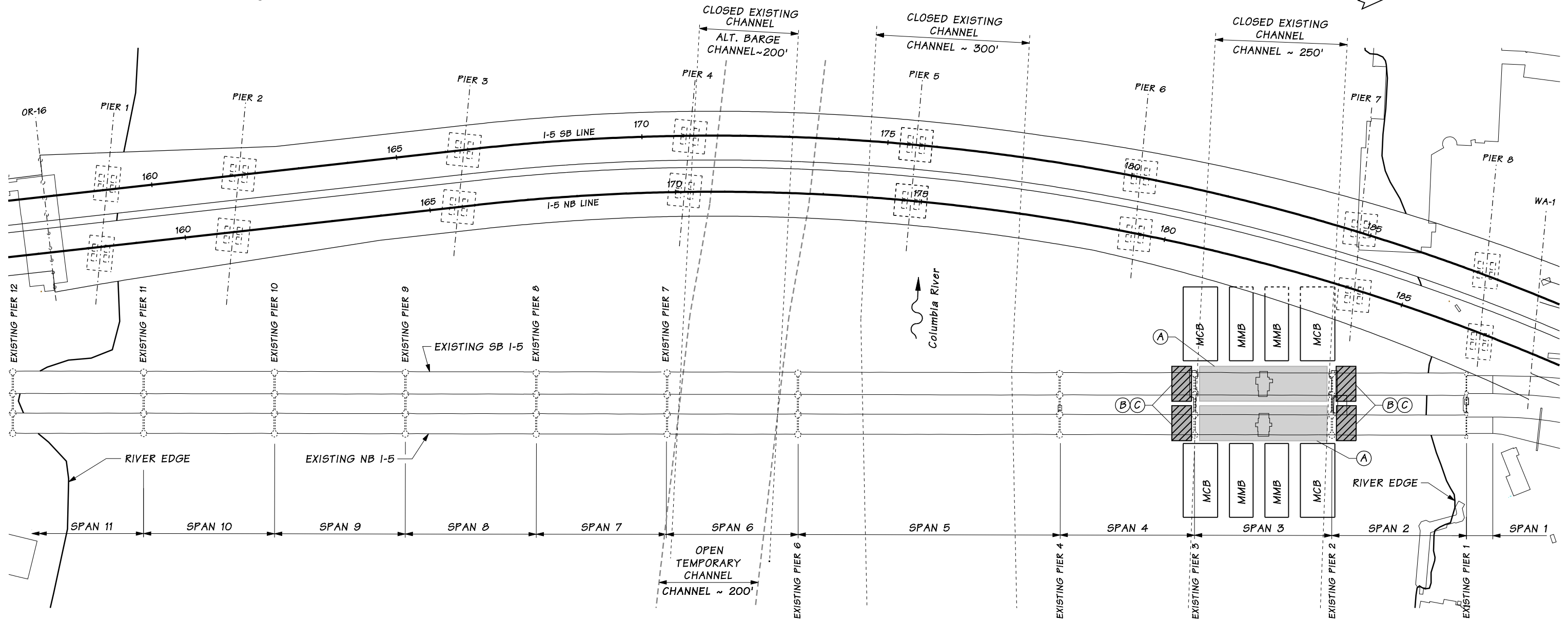
CONCEPTUAL DESIGN
Columbia River
CROSSING

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DRAFT

DEMOLITION SEQUENCE:

- (A) LOCK NB AND SB LIFT SPAN 3.
- (B) LOWER AND REMOVE COUNTERWEIGHTS.
- (C) REMOVE NB AND SB LIFT SPAN TOWERS.



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
- MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
- MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL
NOT FOR CONSTRUCTION
NOVEMBER 11, 2009

PHASE A

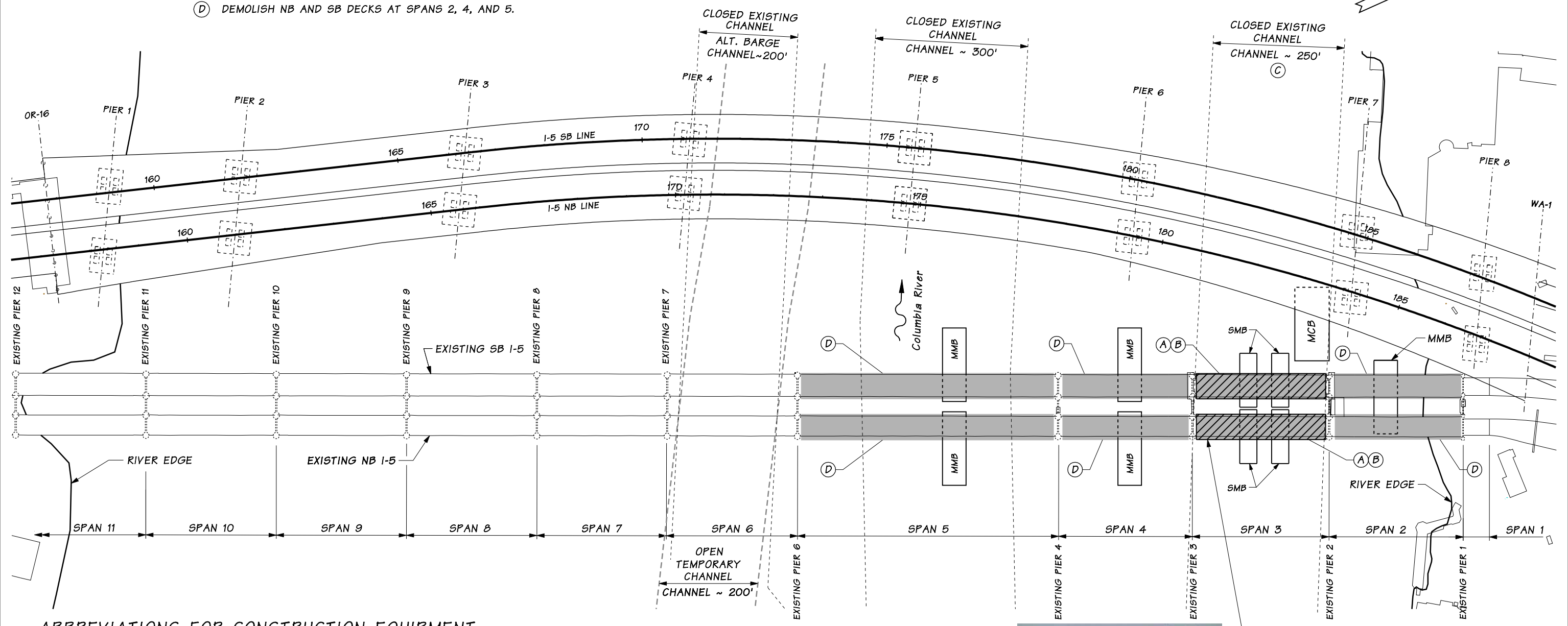
**INTERSTATE BRIDGE
DEMOLITION SEQUENCE**

- KEY:
- WORK BEING COMPLETED AT ELEMENT.
 - FULL REMOVAL (DEMOLITION) OF ELEMENT.

DRAFT

DEMOLITION SEQUENCE:

- (A) DEMOLISH NS AND SB DECKS AT SPAN 3.
- (B) LIFT AND REMOVE NB AND SB SPAN 3 VIA BARGE.
- (C) OPEN PRIMARY CHANNEL.
- (D) DEMOLISH NB AND SB DECKS AT SPANS 2, 4, AND 5.



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
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- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL
NOT FOR CONSTRUCTION
NOVEMBER 11, 2009

PHASE B



- KEY:**
- WORK BEING COMPLETED AT ELEMENT.
 - FULL REMOVAL (DEMOLITION) OF ELEMENT.

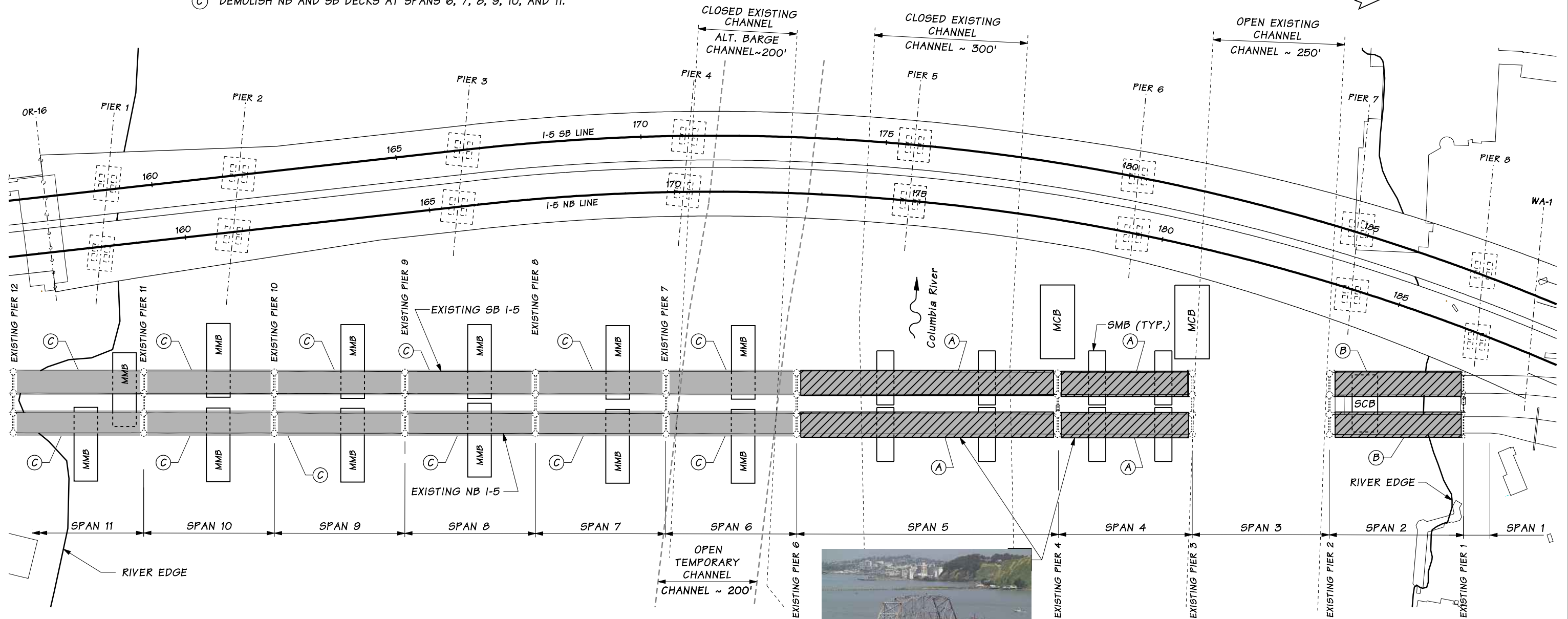
**INTERSTATE BRIDGE
DEMOLITION SEQUENCE**

CONCEPTUAL DESIGN
Columbia River
CROSSING

DRAFT

DEMOLITION SEQUENCE:

- (A) LIFT AND REMOVE NB AND SB SPANS 4 AND 5 VIA BARGE.
- (B) DEMOLISH NB AND SB SPAN 2 USING LAND-BASED CRANE.
- (C) DEMOLISH NB AND SB DECKS AT SPANS 6, 7, 8, 9, 10, AND 11.



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
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- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL
NOT FOR CONSTRUCTION
NOVEMBER 11, 2009



PHASE C

**INTRSTATE BRIDGE
DEMOLITION SEQUENCE**

KEY:
 WORK BEING COMPLETED AT ELEMENT.
 FULL REMOVAL (DEMOLITION) OF ELEMENT.

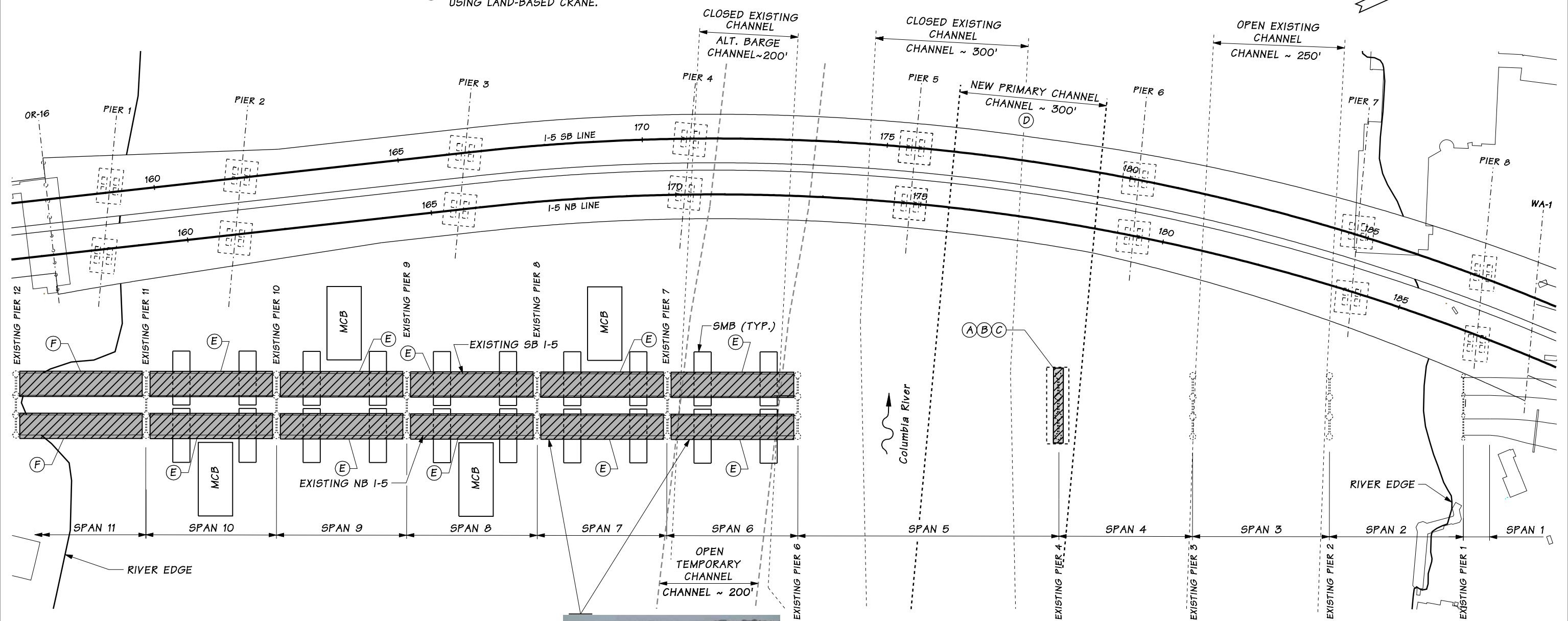
CONCEPTUAL DESIGN
Columbia River
CROSSING

\$DATE\$ 10-25-13 AM\$FILEL\$

DRAFT

DEMOLITION SEQUENCE:

- (A) INSTALL COFFERDAM AT PIER 4 FOR REMOVAL OF PIER.
- (B) WIRE CUT AND REMOVE PIER 4, CUT-OFF PILES.
- (C) REMOVE COFFERDAM AT PIER 4.
- (D) OPEN NEW PRIMARY CHANNEL.
- (E) LIFT AND REMOVE VIA BARGE NB AND SB SPANS 6, 7, 8, 9, AND 10.
- (F) DEMOLISH NB AND SB SPAN 11 USING LAND-BASED CRANE.



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
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- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME



CONCEPTUAL
 NOT FOR CONSTRUCTION
 NOVEMBER 11, 2009

KEY:
 [Solid Grey Box] WORK BEING COMPLETED AT ELEMENT.
 [Hatched Box] FULL REMOVAL (DEMOLITION) OF ELEMENT.

PHASE D

INTERSTATE BRIDGE
DEMOLITION SEQUENCE

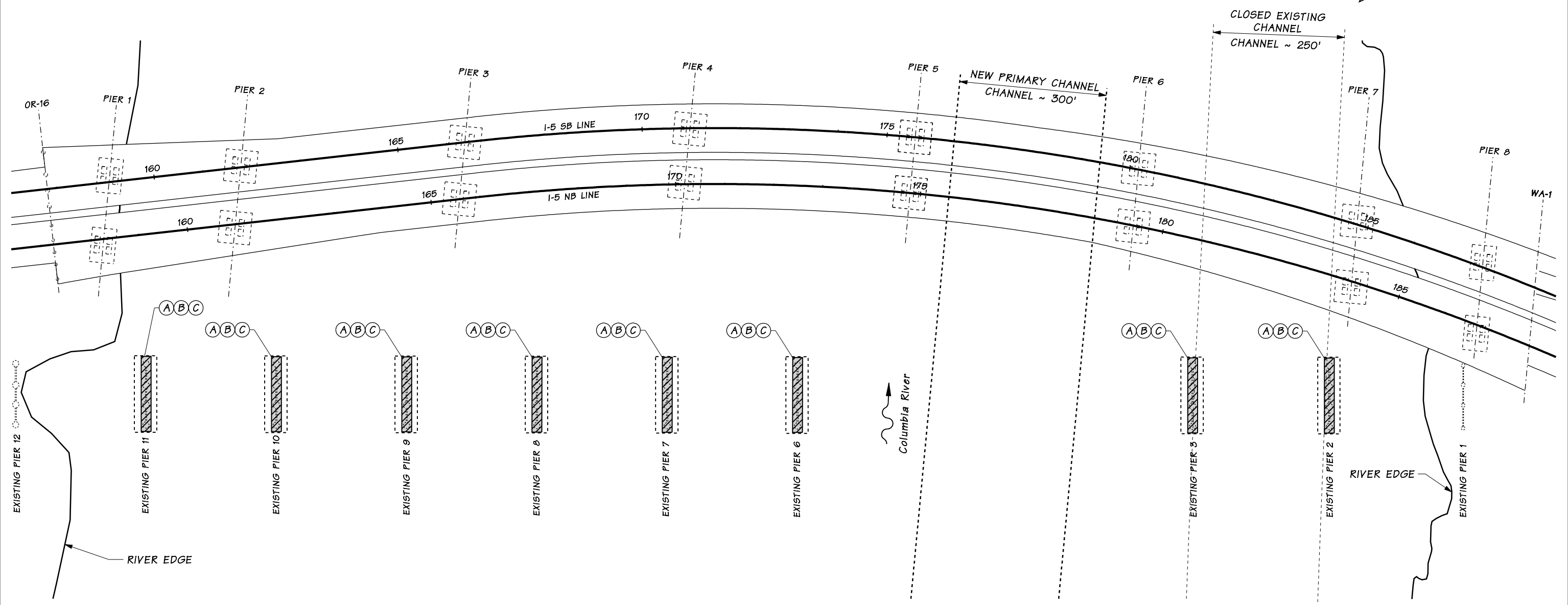
CONCEPTUAL DESIGN
Columbia River
CROSSING

10-38-08 A#FILEL\$ \$DATE\$

DRAFT

DEMOLITION SEQUENCE:

- (A) INSTALL COFFERDAM AT PIERS 3, 2, 6, 7, 8, 9, 10, AND 11.
- (B) WIRE CUT AND REMOVE PIERS 3, 2, 6, 7, 8, 9, 10, AND 11.
- (C) REMOVE COFFERDAM AT PIERS 3, 2, 6, 7, 8, 9, 10, AND 11.



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

- SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
- SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
- MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
- MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
- LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
- LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
- SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
- CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME

CONCEPTUAL
 NOT FOR CONSTRUCTION
 NOVEMBER 11, 2009

PHASE E

INTERSTATE BRIDGE
DEMOLITION SEQUENCE

KEY:
 FULL REMOVAL (DEMOLITION) OF ELEMENT.

CONCEPTUAL DESIGN
Columbia River
CROSSING

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