

## **SECTION 7: PRELIMINARY DESIGN PLANS FOR ADVANCE SITUATION FOLDER**

The following plans have been developed for the selected bridge type. Section 17 contains plans of the final three structure types that were considered.



COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-745.00	R1

**PRELIMINARY**

# Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

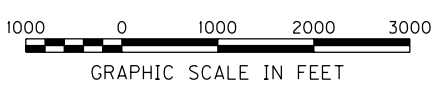
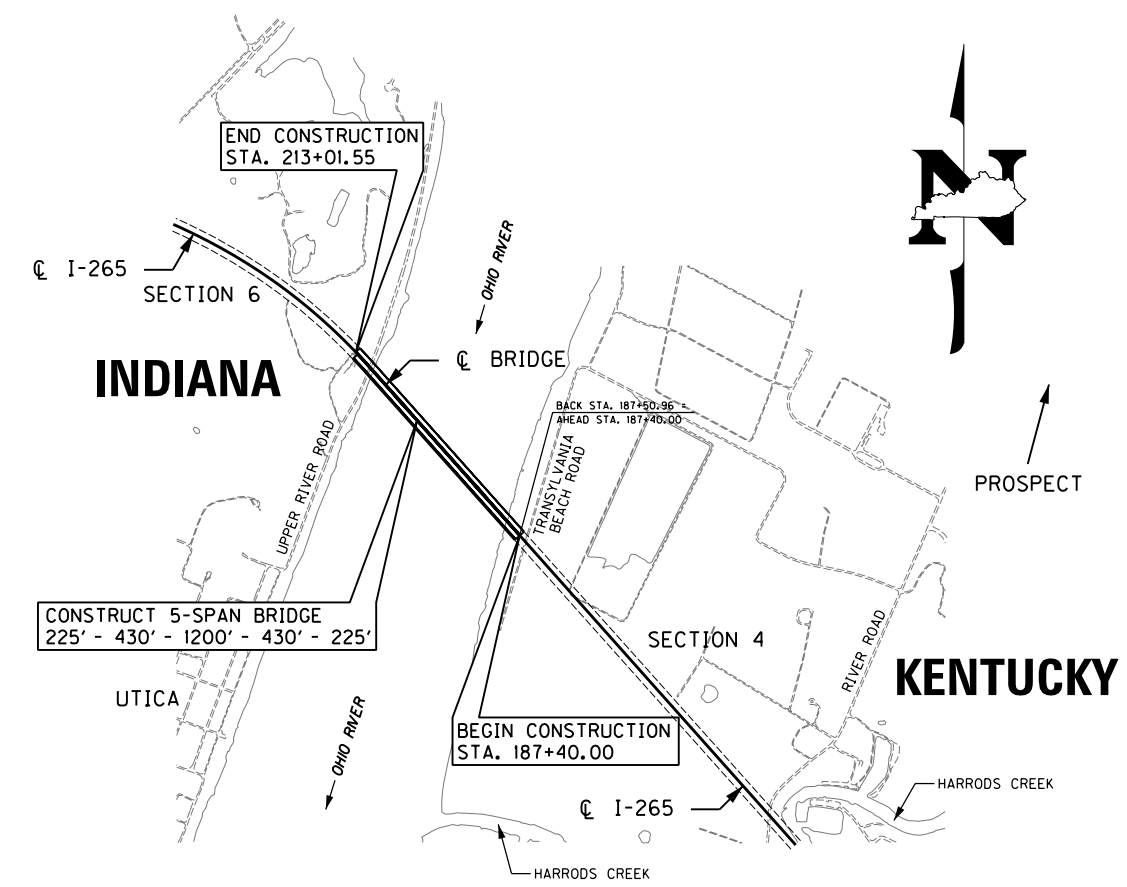
## PLANS OF PROPOSED PROJECT JEFFERSON COUNTY

THE LOUISVILLE-SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT  
SECTION 5 - I-265 EAST END BRIDGE OVER THE OHIO RIVER  
ITEM NO. 5-745.00  
PRELIMINARY PLANS

SHEET NO.	DESCRIPTION
R1	LAYOUT SHEET
R2	TYPICAL SECTIONS
R3	LEGEND AND UTILITY OWNERS
R4-R5	PLAN AND PROFILE SHEETS
R6	PROJECT CONTROL SHEET
R7	ANCHOR PIER PROTECTION PLAN - PIERS 2 & 5
S1	GENERAL PLAN & ELEVATION
S2	TOWERS 3 & 4 GEOMETRY
S3	TOWERS 3 & 4 SECTIONS
S4	TYPICAL SUPERSTRUCTURE SECTIONS
S5	DECK CROSS SLOPE TRANSITION DETAILS
S6	TOWER FOOTING LAYOUT
S7	TOWER LOWER LEG GEOMETRY
S8	PIER 1
S9	PIER 2
S10	PIER 5
S11	INDIANA ABUTMENT ELEVATION AND SECTIONS
S12	DECK PLAN
S13	FRAMING PLAN
S14	CABLE TO GIRDER CONNECTION
S15	CABLE TO TOWER CONNECTION
S16	WALKWAY/BIKEPATH DETAILS SHEET 1 OF 2
S17	WALKWAY/BIKEPATH DETAILS SHEET 2 OF 2
S18	BARRIER DETAILS
S19	DECK DRAINAGE DETAILS
S20	SUGGESTED CONSTRUCTION SEQUENCE
T1-T2	CONCEPTUAL SIGNING PLANS
G1	GEOTECHNICAL SYMBOL SHEET
G2	BORING LAYOUT
G3-G15	BORING LOGS
G16	PLAN, PROFILE & BORING LOGS
G17	BEDROCK CONTOURS
G18	STRATIGRAPHIC COLUMN
HI-H5	HISTORICAL WATER SURFACE ELEVATIONS

TOTAL SHEETS	
(R) ROADWAY	7
(S) STRUCTURE	2
(T) TRAFFIC	2
(G) GEOTECHNICAL	18
(H) HYDROGRAPHS	5



**LAYOUT MAP**

### DESIGN CRITERIA

CLASS OF HIGHWAY	RURAL INTERSTATE
TYPE OF TERRAIN	ROLLING
DESIGN SPEED	70 MPH
REQUIRED NPSD	730'
REQUIRED PSD	
LEVEL OF SERVICE	
ADT PRESENT ( )	N/A
ADT FUTURE ( 2025 )	70,000
D %	6.050
T %	12%

### GEOGRAPHIC COORDINATES

LATITUDE 38 DEGREES 20 MINUTES 34 SECONDS NORTH  
LONGITUDE 85 DEGREES 38 MINUTES 36 SECONDS WEST

### DESIGNED

% RESTRICTED SD	
LEVEL OF SERVICE	
MAX. DISTANCE W/O PASSING	

I-265 EAST END BRIDGE	I-265 INDIANA APPROACH	UPPER RIVER ROAD	TOTAL PROJECT
LENGTH <u>2,510.00</u> LIN. FT. <u>0.475</u> MILES	LENGTH <u>51.55</u> LIN. FT. <u>0.010</u> MILES	LENGTH <u>300.00</u> LIN. FT. <u>0.057</u> MILES	LENGTH <u>2861.55</u> LIN. FT. <u>0.542</u> MILES
ADDED FOR EQUALITIES _____ LIN. FT.	ADDED FOR EQUALITIES _____ LIN. FT.	ADDED FOR EQUALITIES _____ LIN. FT.	ADDED FOR EQUALITIES _____ LIN. FT.
DEDUCTED NOT INCLUDED _____ LIN. FT.	DEDUCTED NOT INCLUDED _____ LIN. FT.	DEDUCTED NOT INCLUDED _____ LIN. FT.	DEDUCTED NOT INCLUDED _____ LIN. FT.
RAILROAD CROSSINGS NO. _____ LIN. FT.	RAILROAD CROSSINGS NO. _____ LIN. FT.	RAILROAD CROSSINGS NO. _____ LIN. FT.	RAILROAD CROSSINGS NO. _____ LIN. FT.
BRIDGES _____ LIN. FT.	BRIDGES _____ LIN. FT.	BRIDGES _____ LIN. FT.	BRIDGES _____ LIN. FT.

Commonwealth of Kentucky  
DEPARTMENT OF HIGHWAYS  
COUNTY OF  
**JEFFERSON**  
I-265 EAST END BRIDGE OVER THE OHIO RIVER

ITEM NO. 5-745.00

PROJECT NUMBER: \_\_\_\_\_

LETTING DATE: \_\_\_\_\_

RECOMMENDED BY: \_\_\_\_\_ PROJECT MANAGER DATE: \_\_\_\_\_

PLAN APPROVED BY: \_\_\_\_\_ STATE HIGHWAY ENGINEER DATE: \_\_\_\_\_

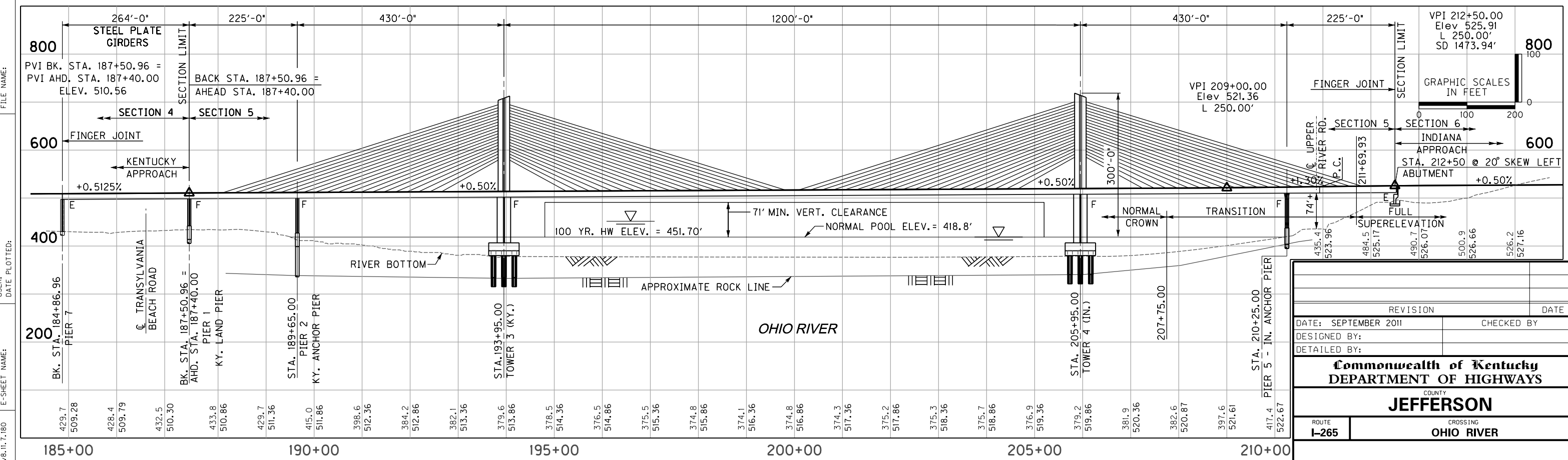
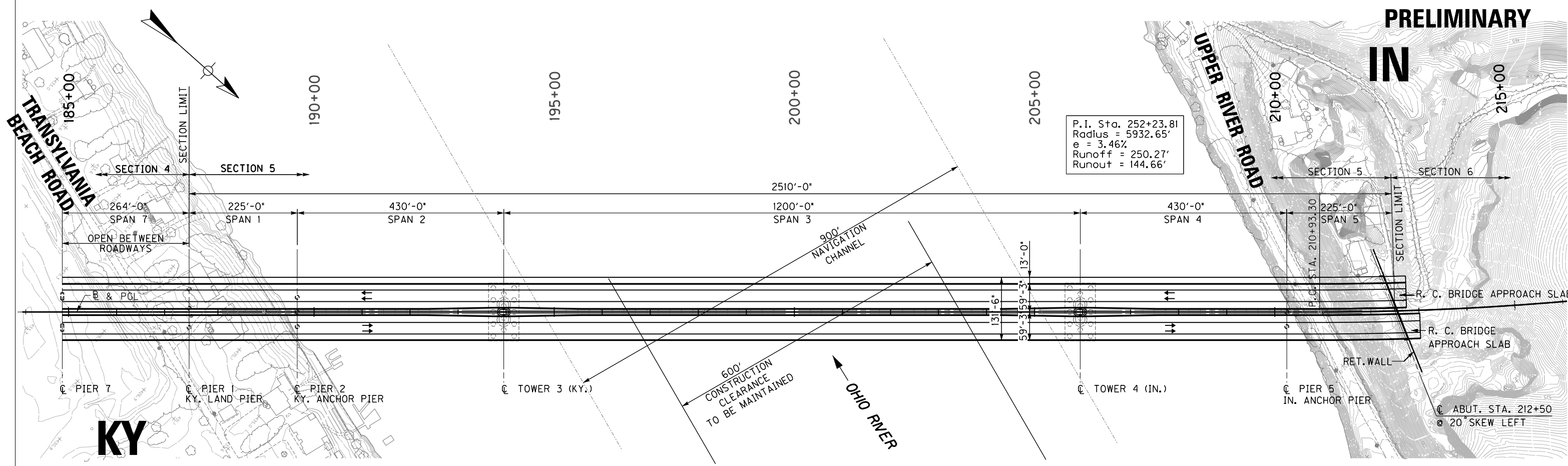
DATE: SEPTEMBER 2011

PLANS PREPARED AND SUBMITTED BY:

**PARSONS BRINCKERHOFF**

Parsons Brinckerhoff, Inc.  
1792 Alysnebo Way, Suite 230  
Lexington, Kentucky 40509  
(859) 272-5400

**PRELIMINARY**  
**IN**



429.7	509.28	428.4	509.79	432.5	510.30	433.8	510.86	429.7	511.36	415.0	511.86	398.6	512.36	384.2	512.86	382.1	513.36	379.6	513.86	378.5	514.36	376.5	514.86	375.5	515.36	374.8	515.86	374.1	516.36	374.3	517.36	375.2	517.86	375.3	518.36	375.7	518.86	376.9	519.36	379.2	519.86	381.9	520.36	382.6	520.87	397.6	521.61	417.4	522.67
185+00		190+00				195+00				200+00				205+00				210+00																															

ITEM NUMBER	5-745.00
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REVISION	DATE	CHECKED BY
DATE: SEPTEMBER 2011		
DESIGNED BY:		
DETAILED BY:		

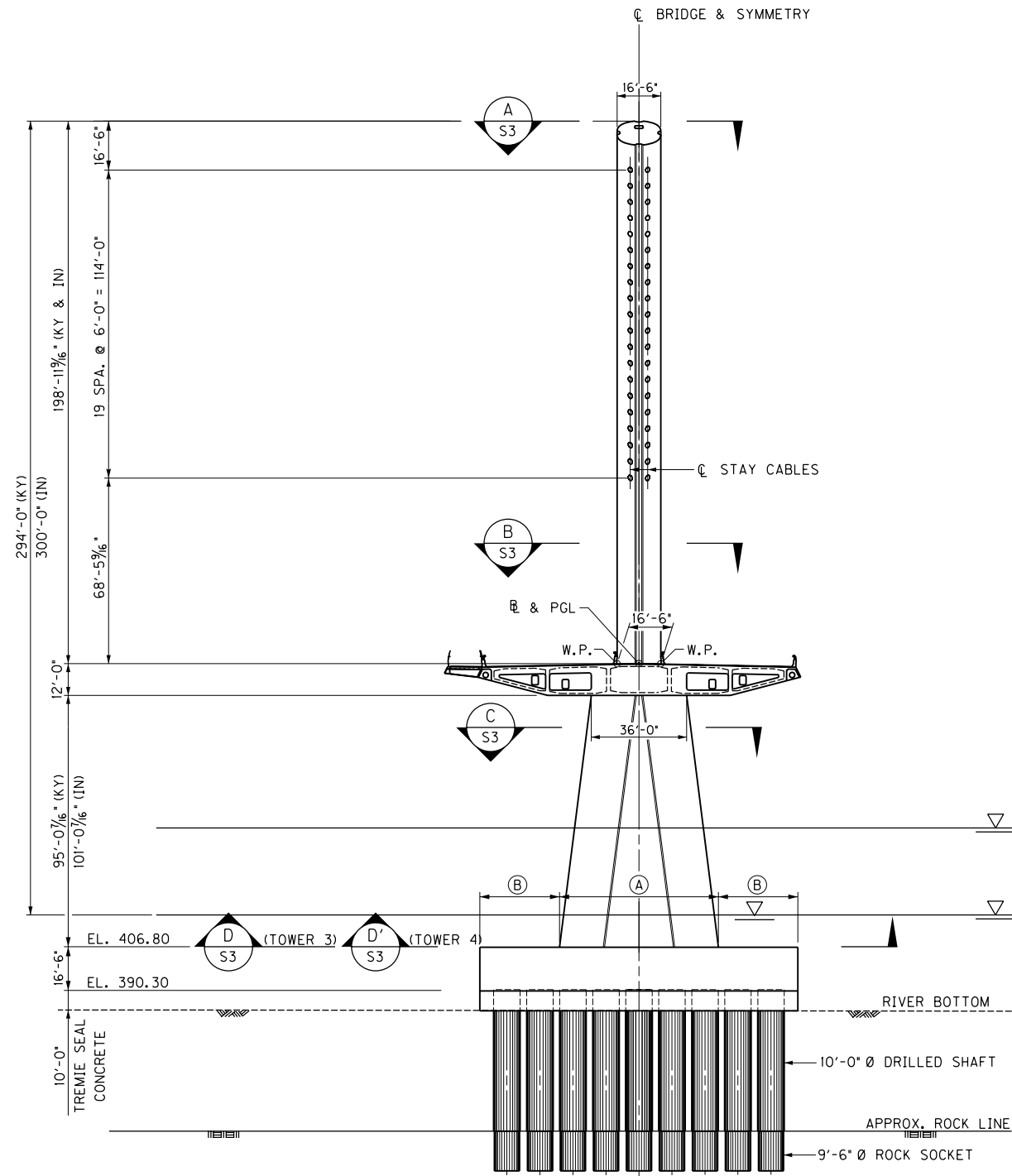
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS	
COUNTY <b>JEFFERSON</b>	
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>

<b>PLAN AND ELEVATION</b>	
PREPARED BY <b>PARSONS BRINCKERHOFF</b>	SHEET NO. <b>S1</b>
DRAWING NO.	

FILE NAME:  
USER: DATE PLOTTED:  
E-SHEET NAME:  
MicroStation v8.11.7.180

NOTES:  
1. ELEVATIONS SHOWN ARE BASED ON NAVD88. ADD 0.3' FOR NGVD29.

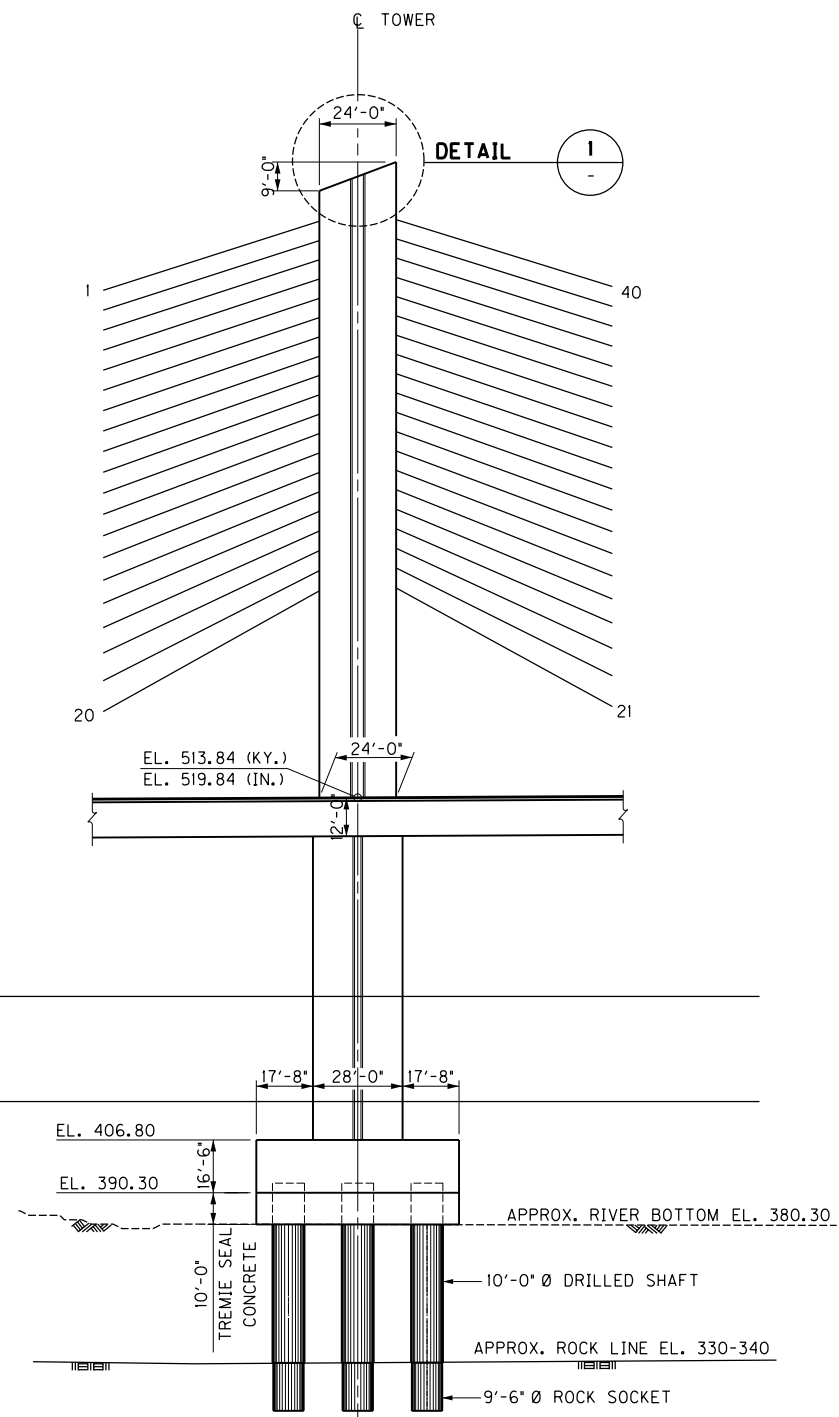


**TRANSVERSE ELEVATION**

LOOKING AHEAD (KY. TOWER) - LOOKING BACK (IN. TOWER)

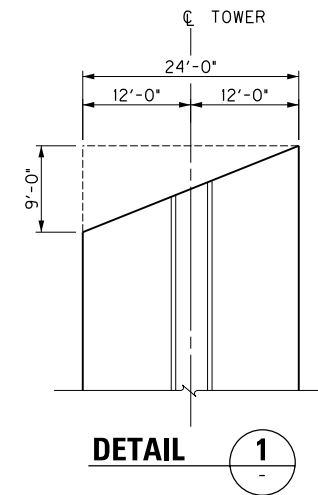
**LEGEND**

- (A) 60'-0" (KY); 61'-6 7/8" (IN)
- (B) 30'-0" (KY); 29'-2 1/16" (IN)



**LONGITUDINAL ELEVATION**

LOOKING WEST AT KY. TOWER - LOOKING EAST AT IN. TOWER



**DETAIL 1**

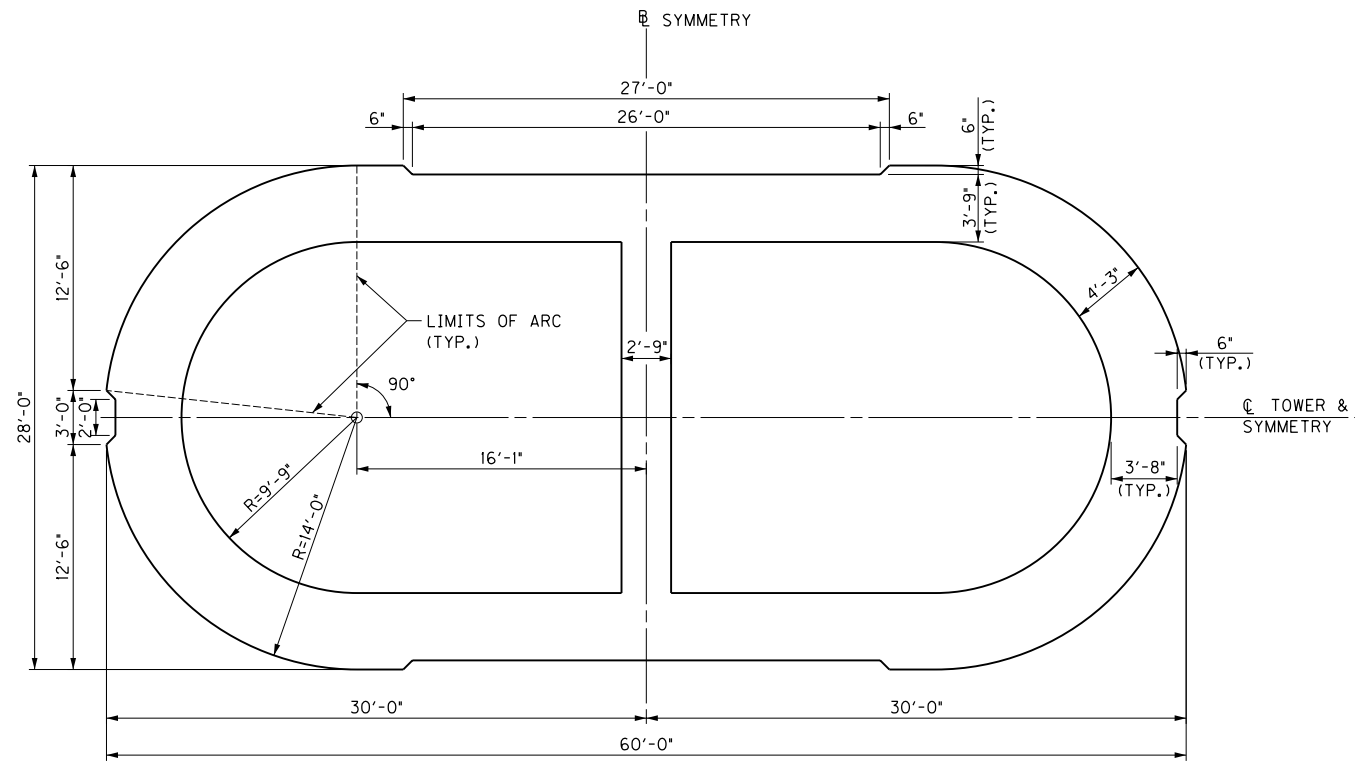
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DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:	DETAILED BY:	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>TOWER GEOMETRY</b>		
PREPARED BY <b>PARSONS BRINCKERHOFF</b>		SHEET NO. <b>S2</b>
ITEM NUMBER <b>5-745.00</b>		DRAWING NO.

FILE NAME:

USER: DATE PLOTTED:

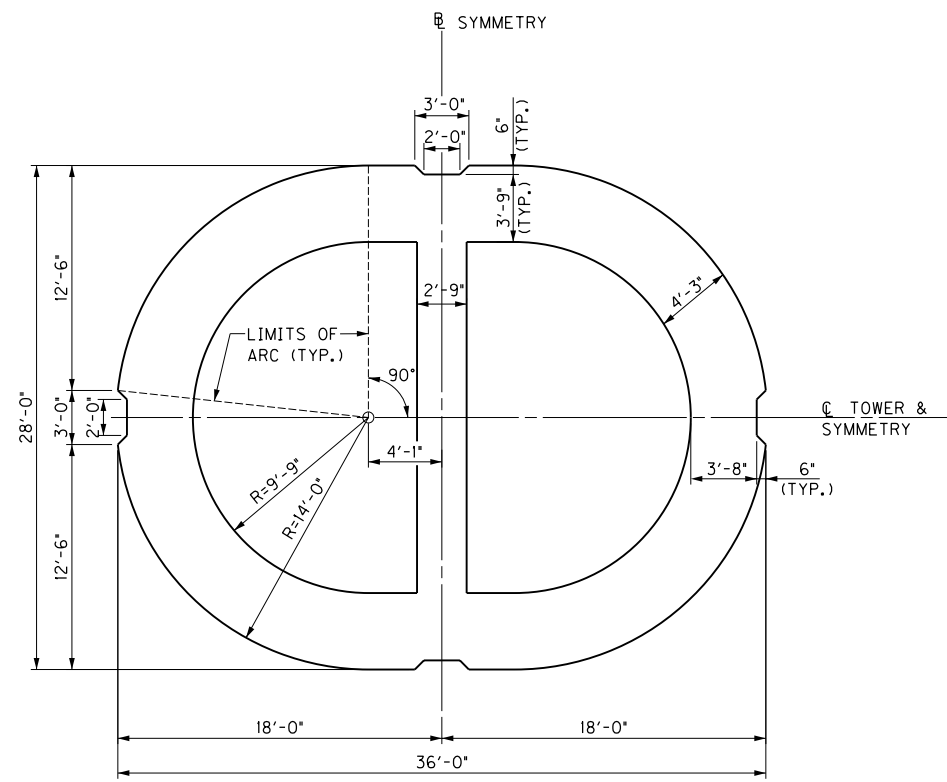
E-SHEET NAME:

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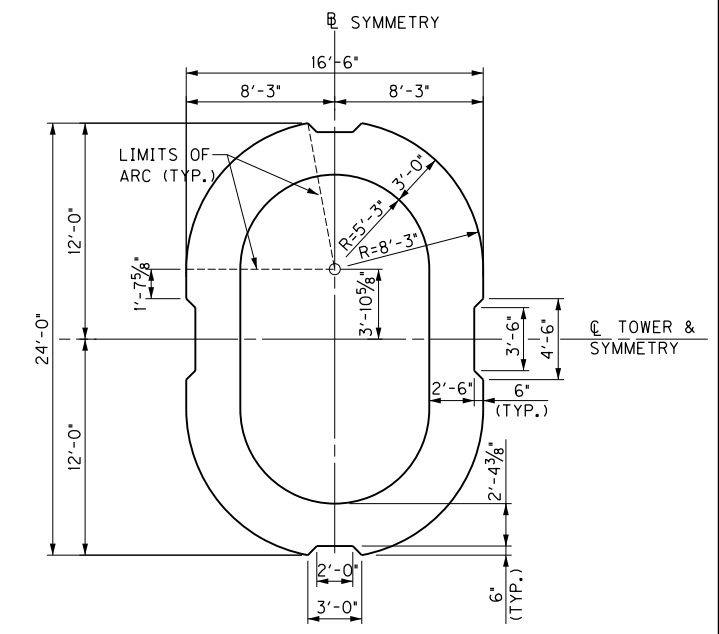
**SECTION D**  
S2

TOWER 3 - KENTUCKY TOWER - LOWER LEG SECTION AT BOTTOM

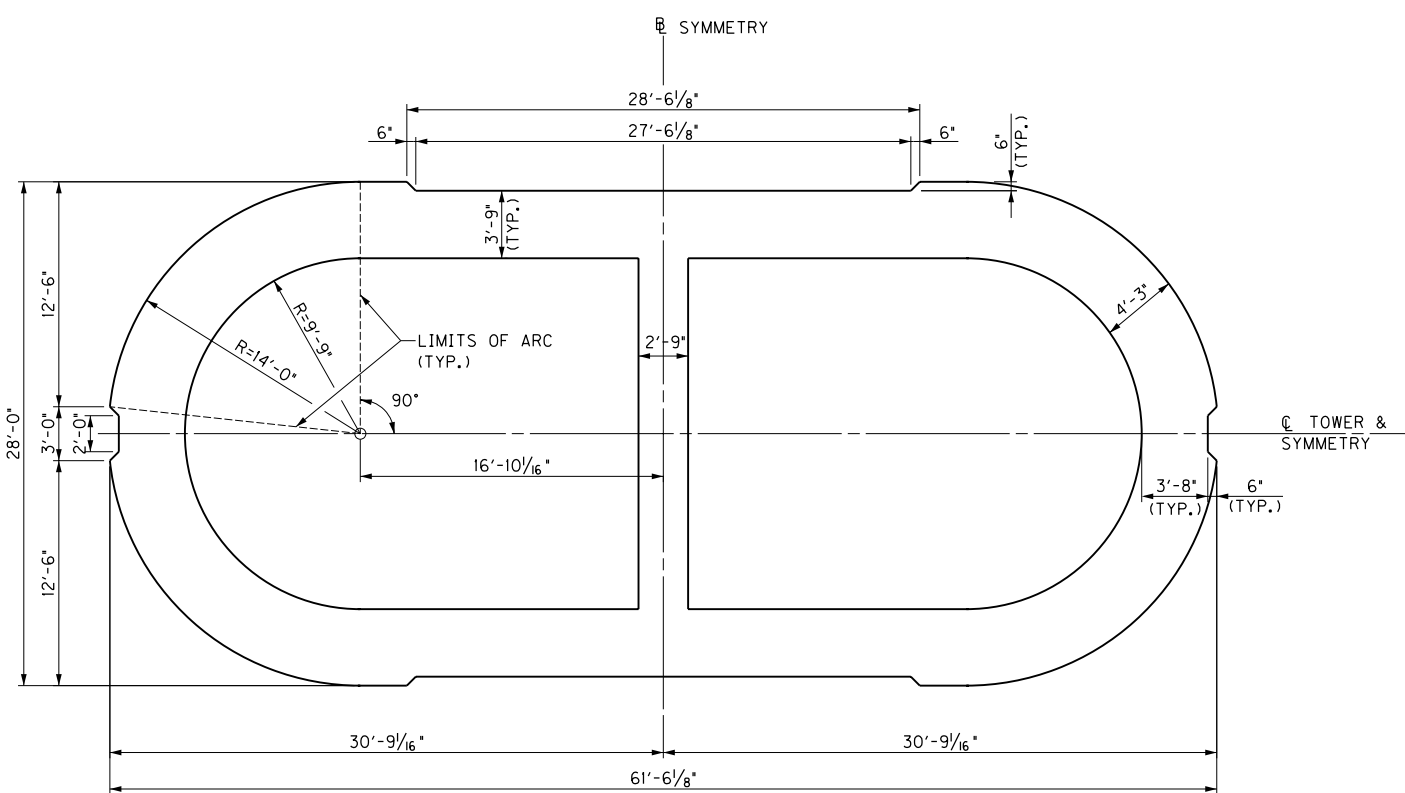


**SECTION C**  
S2

TOWER 3 & 4 - LOWER LEG SECTION AT TOP

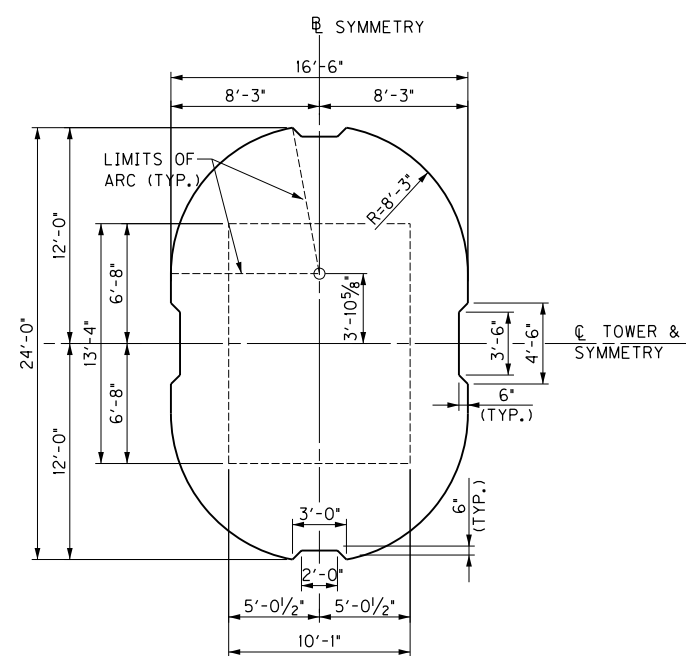


**SECTION B**  
S2



**SECTION D'**  
S2

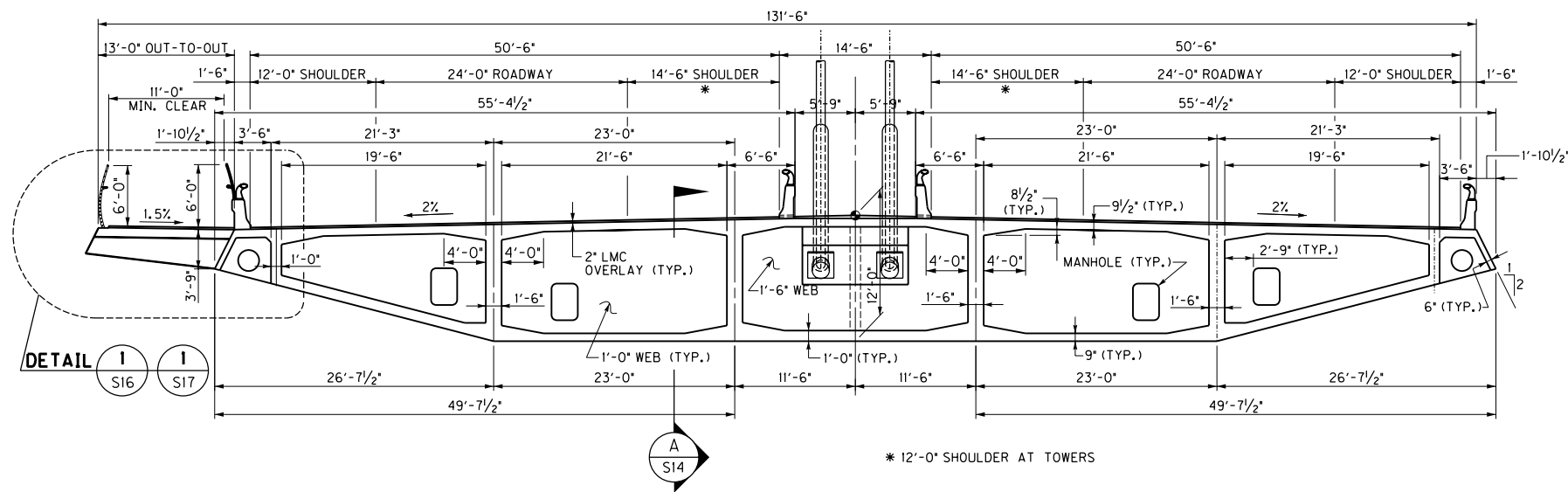
TOWER 4 - INDIANA TOWER - LOWER LEG SECTION AT BOTTOM



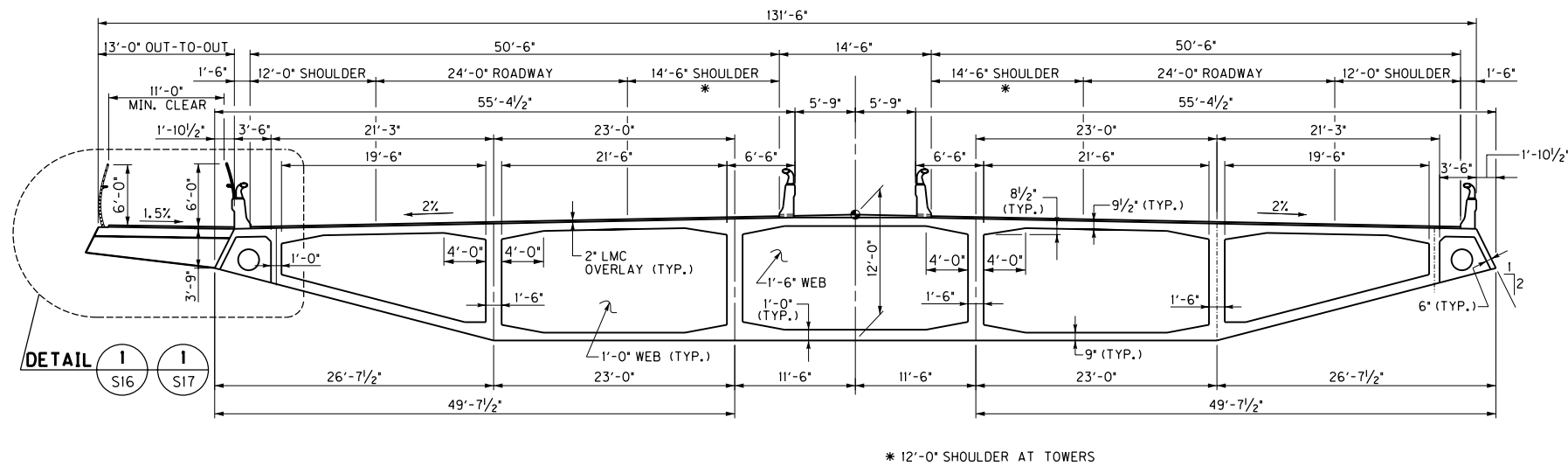
**SECTION A**  
S2

REVISION		DATE
DATE: SEPTEMBER 2011	DESIGNED BY:	CHECKED BY:
DETAILED BY:		
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>TOWER SECTIONS</b>		
ITEM NUMBER	PREPARED BY <b>PARSONS BRINCKERHOFF</b>	SHEET NO. <b>S3</b>
<b>5-745.00</b>		DRAWING NO.

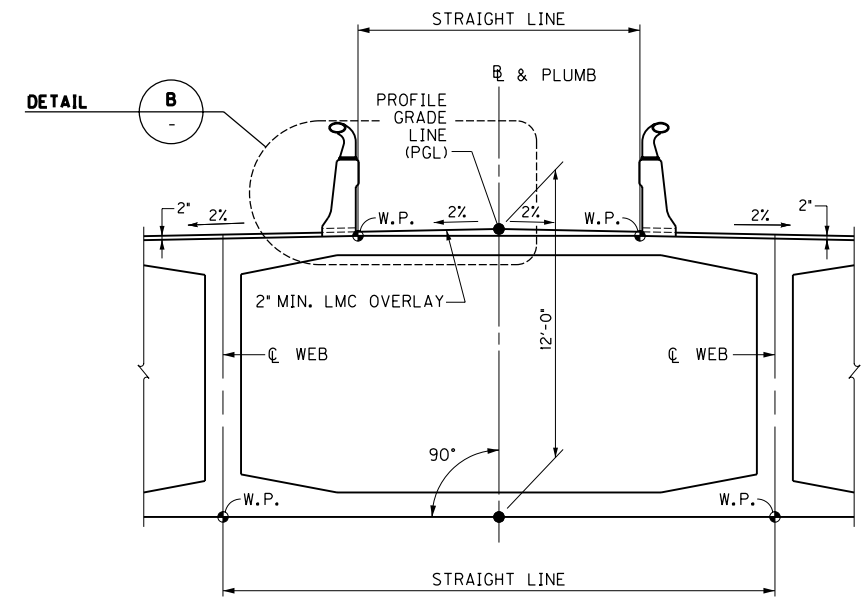
FILE NAME:  
 USER: DATE PLOTTED:  
 E-SHEET NAME:  
 MicroStation v8.11.7.180



**TYPICAL SECTION - A**  
CONCRETE BOX WITH CABLE

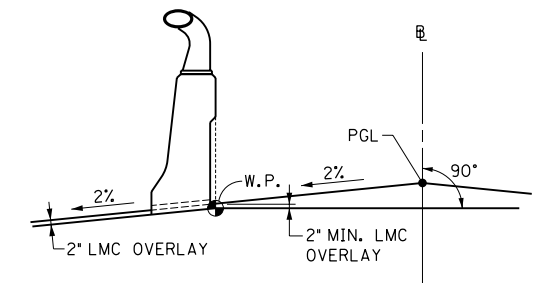


**TYPICAL SECTION - B**  
CONCRETE BOX WITHOUT CABLE

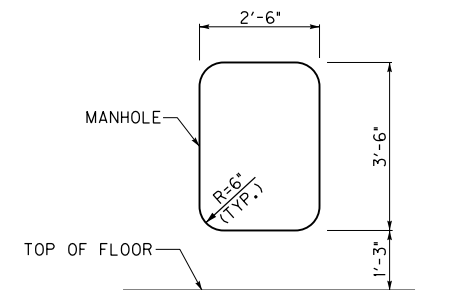


**CONTROL POINTS OF GEOMETRY**

**DETAIL A**  
S5



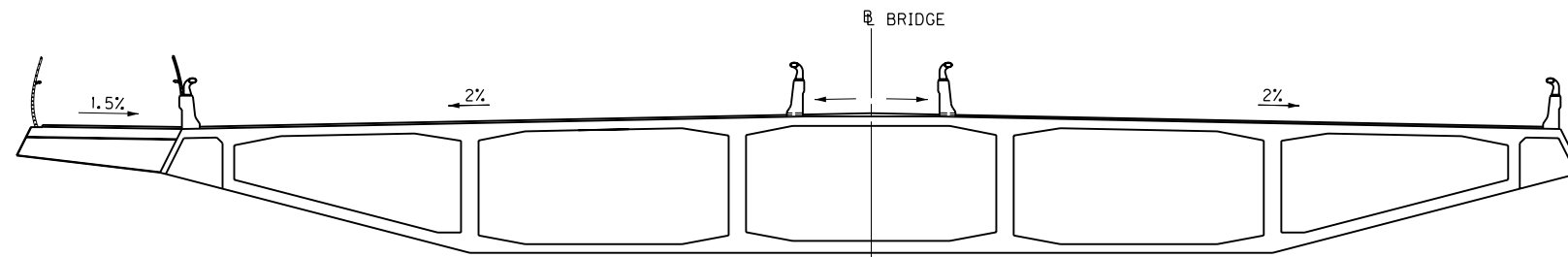
**DETAIL B**



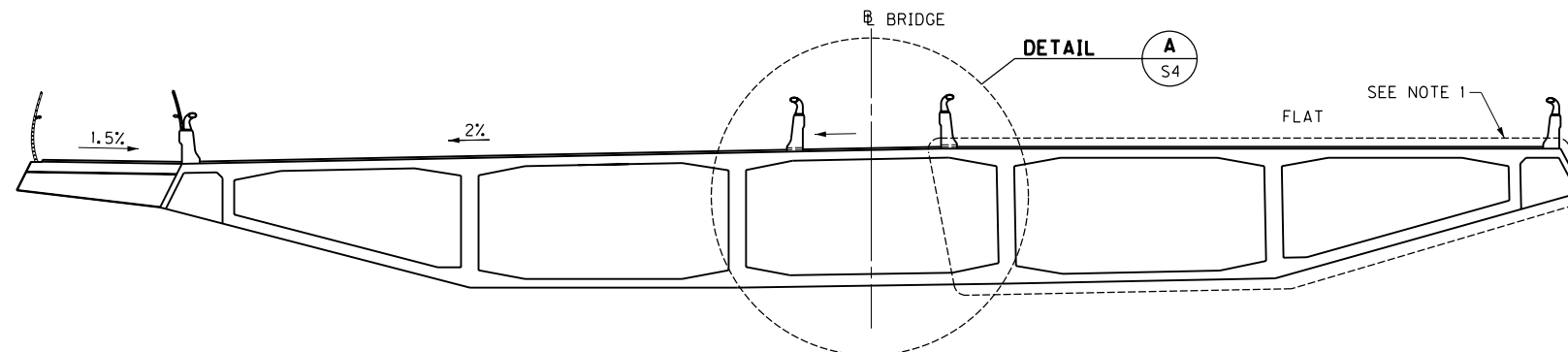
**TYPICAL MANHOLE DETAIL**

REVISION		DATE
DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:	DETAILED BY:	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>TYPICAL SUPERSTRUCTURE SECTIONS</b>		
ITEM NUMBER	PREPARED BY <b>PARSONS BRINCKERHOFF</b>	SHEET NO. <b>S4</b>
<b>5-745.00</b>		DRAWING NO.

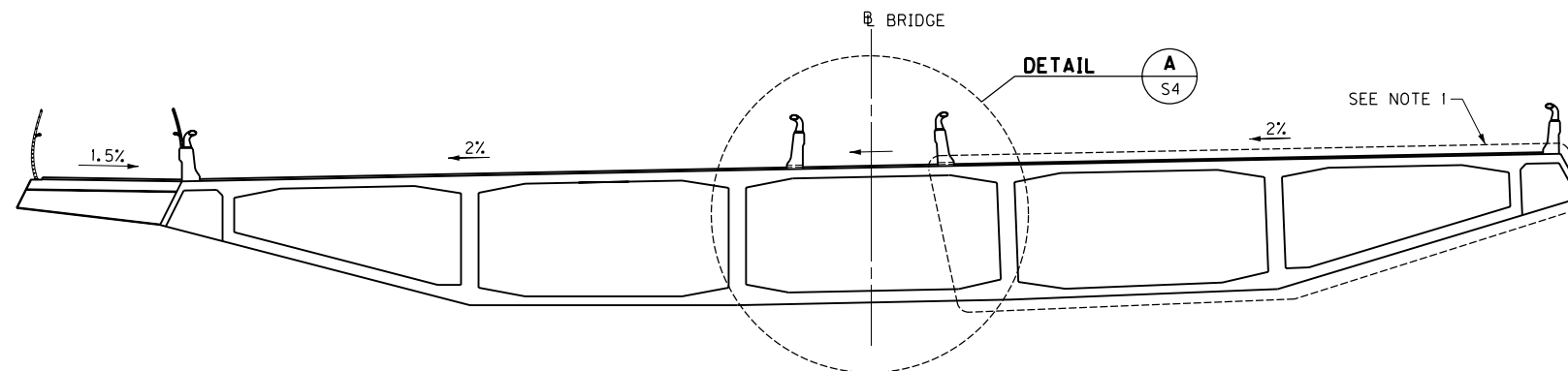
FILE NAME:  
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 E-SHEET NAME:  
 MicroStation v8.11.7.180



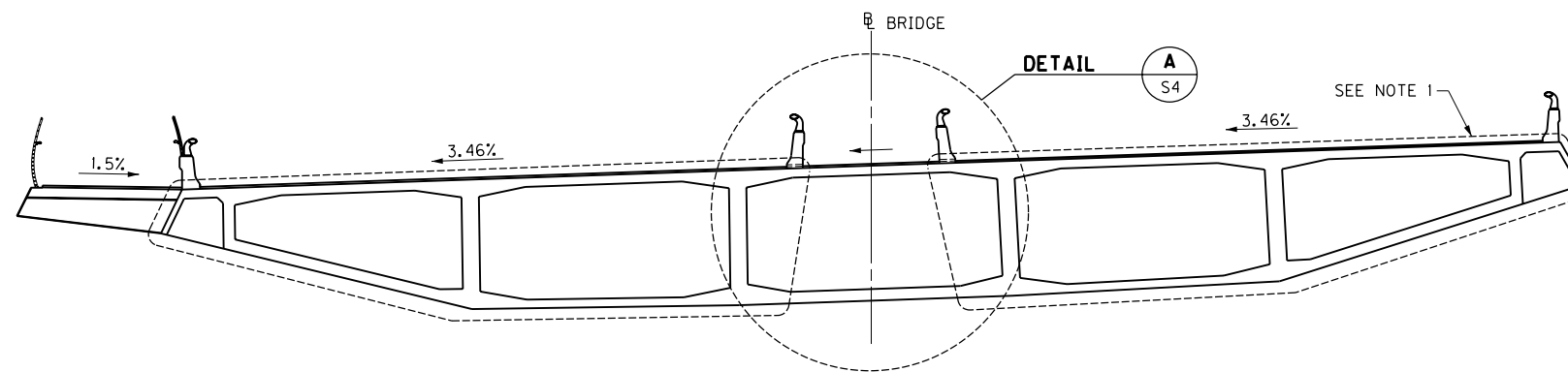
**NORMAL CROWN - STA. 207 + 75.00**



**NORMAL CROWN & FLAT - STA. 209 + 19.66**



**SUPERELEVATION EQUAL TO CROWN - STA. 210 + 64.32**



**FULL SUPERELEVATION - STA. 211 + 69.93**

**STRUCTURAL SUPERELEVATION GEOMETRY**

**NOTES**

1. ROTATE THE STRUCTURE ENCLOSED IN THE DOTTED LINES ABOUT THE PGL IN ACCORDANCE WITH THE ROADWAY SUPERELEVATION REQUIREMENT.

FILE NAME:

USER: DATE PLOTTED:

E-SHEET NAME:

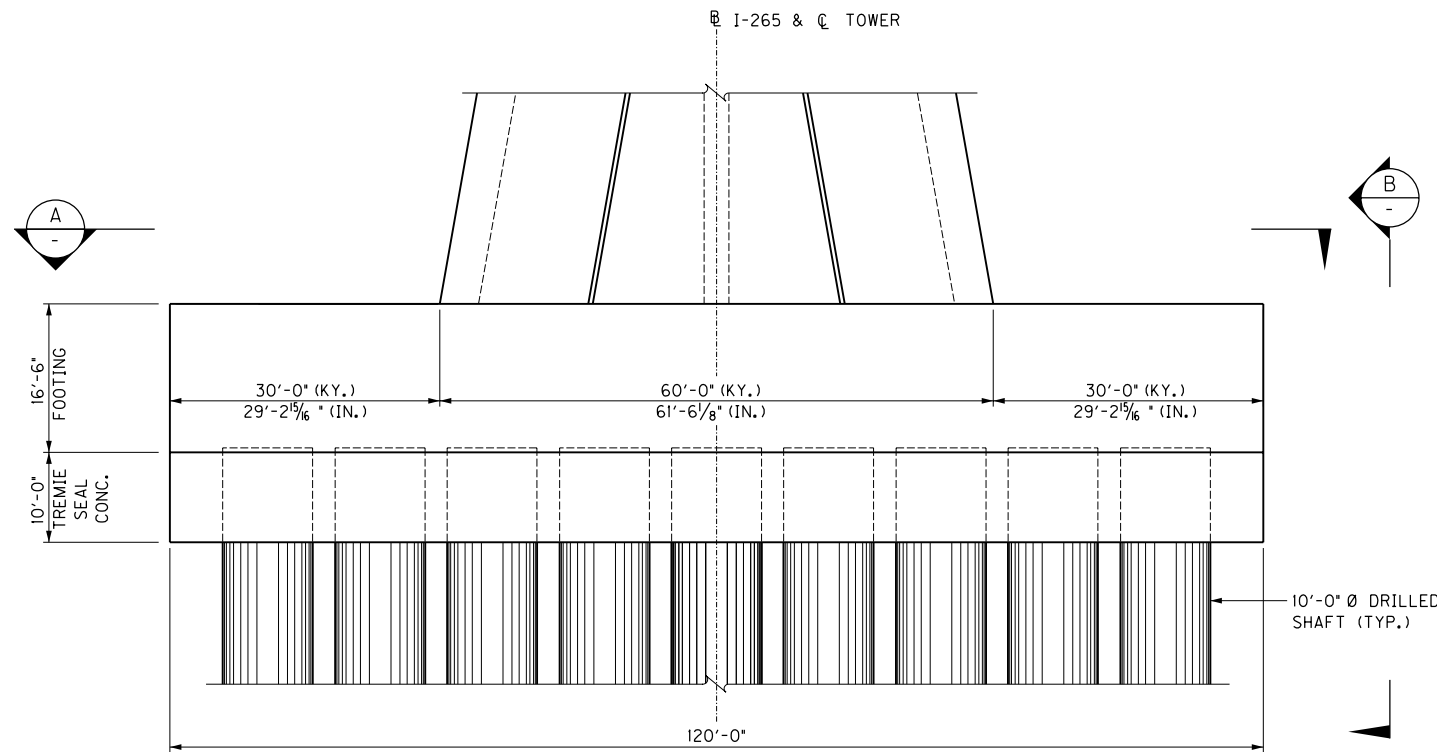
MicroStation v8.11.7.180

ITEM NUMBER	5-745.00
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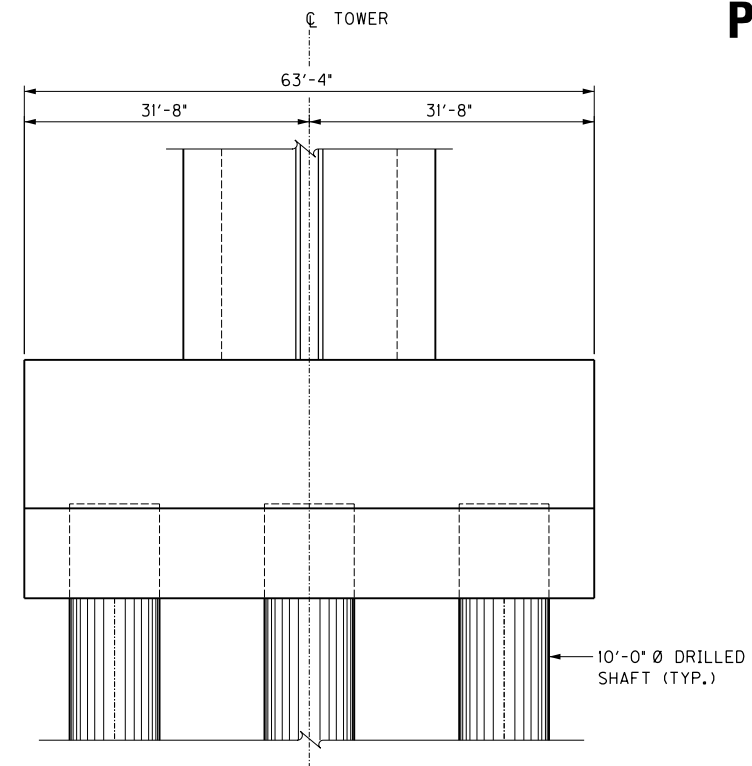
REVISION		DATE
DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:		
DETAILED BY:		
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>		
<small>COUNTY</small> <b>JEFFERSON</b>		
<small>ROUTE</small> I-265	<small>CROSSING</small> OHIO RIVER	
<b>DECK CROSS SLOPE TRANSITION DETAILS</b>		
<small>PREPARED BY</small> <b>PARSONS BRINCKERHOFF</b>		<small>SHEET NO.</small> S5
		<small>DRAWING NO.</small>



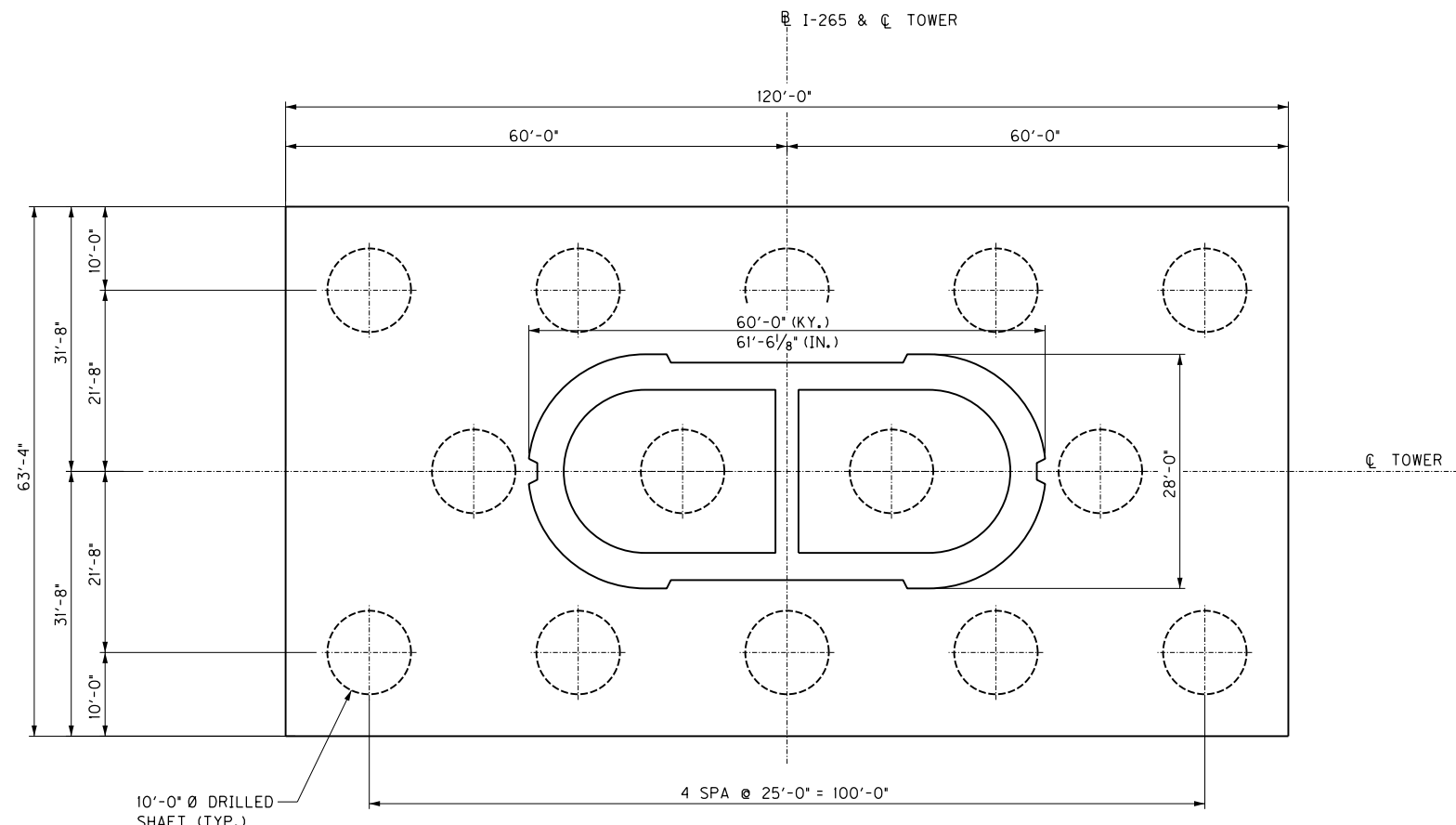
**PRELIMINARY**



**TOWER TRANSVERSE ELEVATION**



**SECTION B**

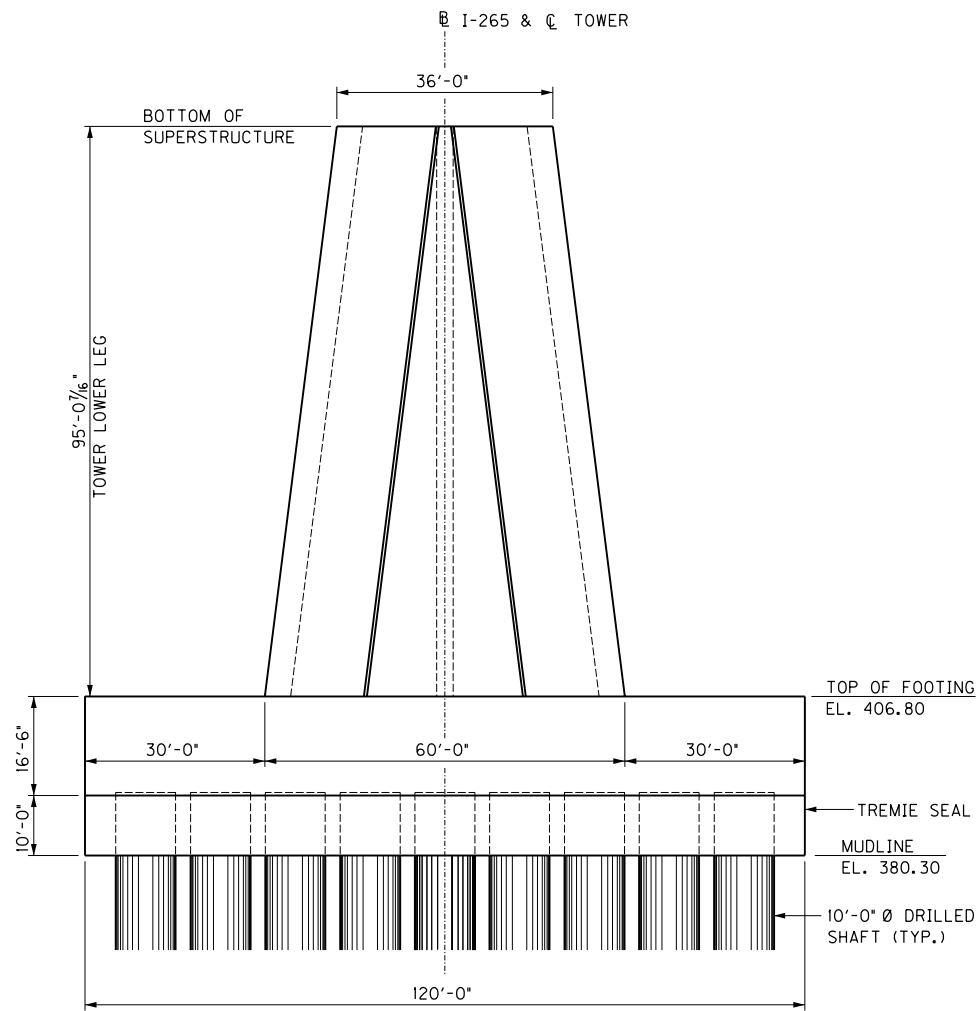


**SECTION A**

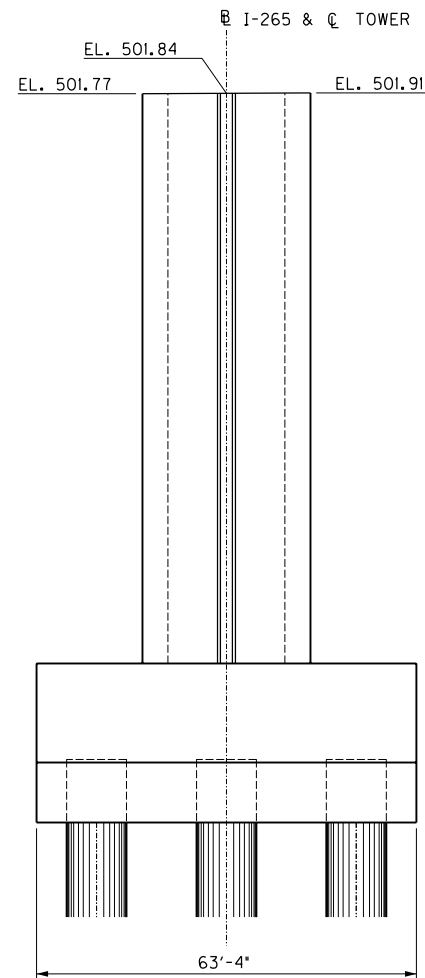
REVISION		DATE
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DESIGNED BY:		
DETAILED BY:		
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>TOWER FOOTING LAYOUT</b>		
ITEM NUMBER	PREPARED BY <b>PARSONS BRINCKERHOFF</b>	SHEET NO. <b>S6</b>
<b>5-745.00</b>		DRAWING NO.

MicroStation v8.11.7.180 E-SHEET NAME: DATE PLOTTED: FILE NAME:

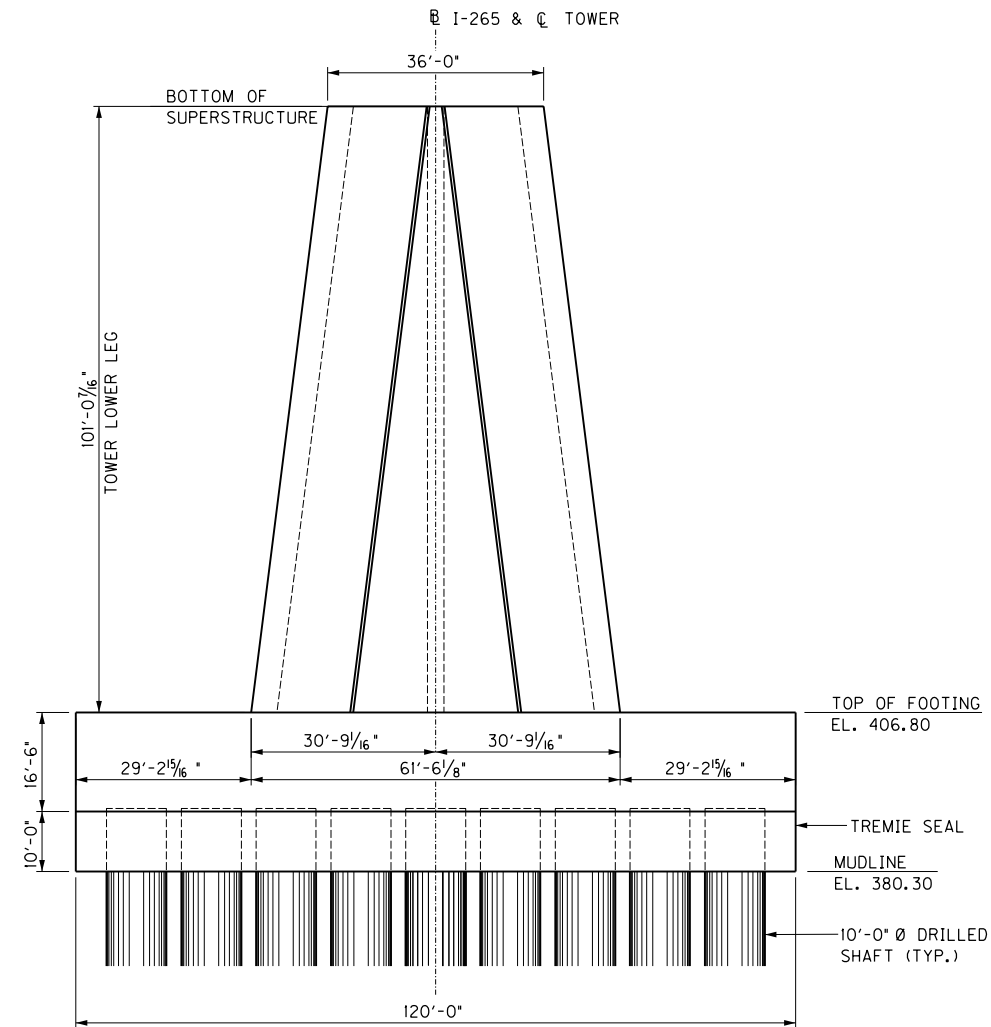
**PRELIMINARY**



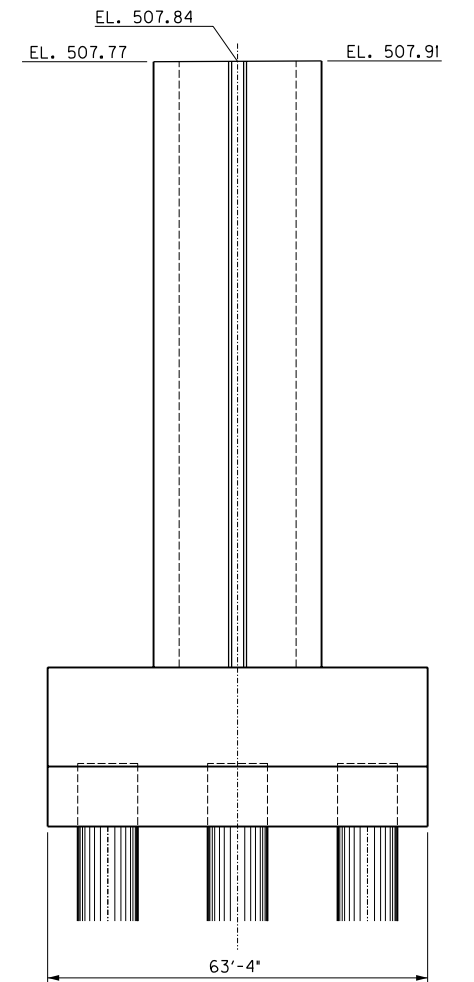
**PIER 3 – KENTUCKY TOWER  
TRANSVERSE ELEVATION**



**KENTUCKY TOWER  
TRANSVERSE ELEVATION**



**PIER 4 – INDIANA TOWER  
TRANSVERSE ELEVATION**



**INDIANA TOWER  
TRANSVERSE ELEVATION**

FILE NAME:

USER: DATE PLOTTED:

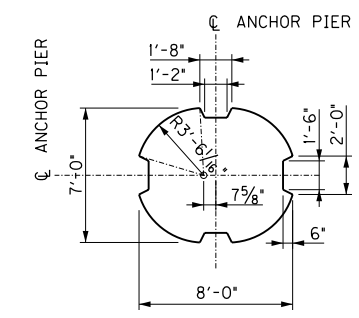
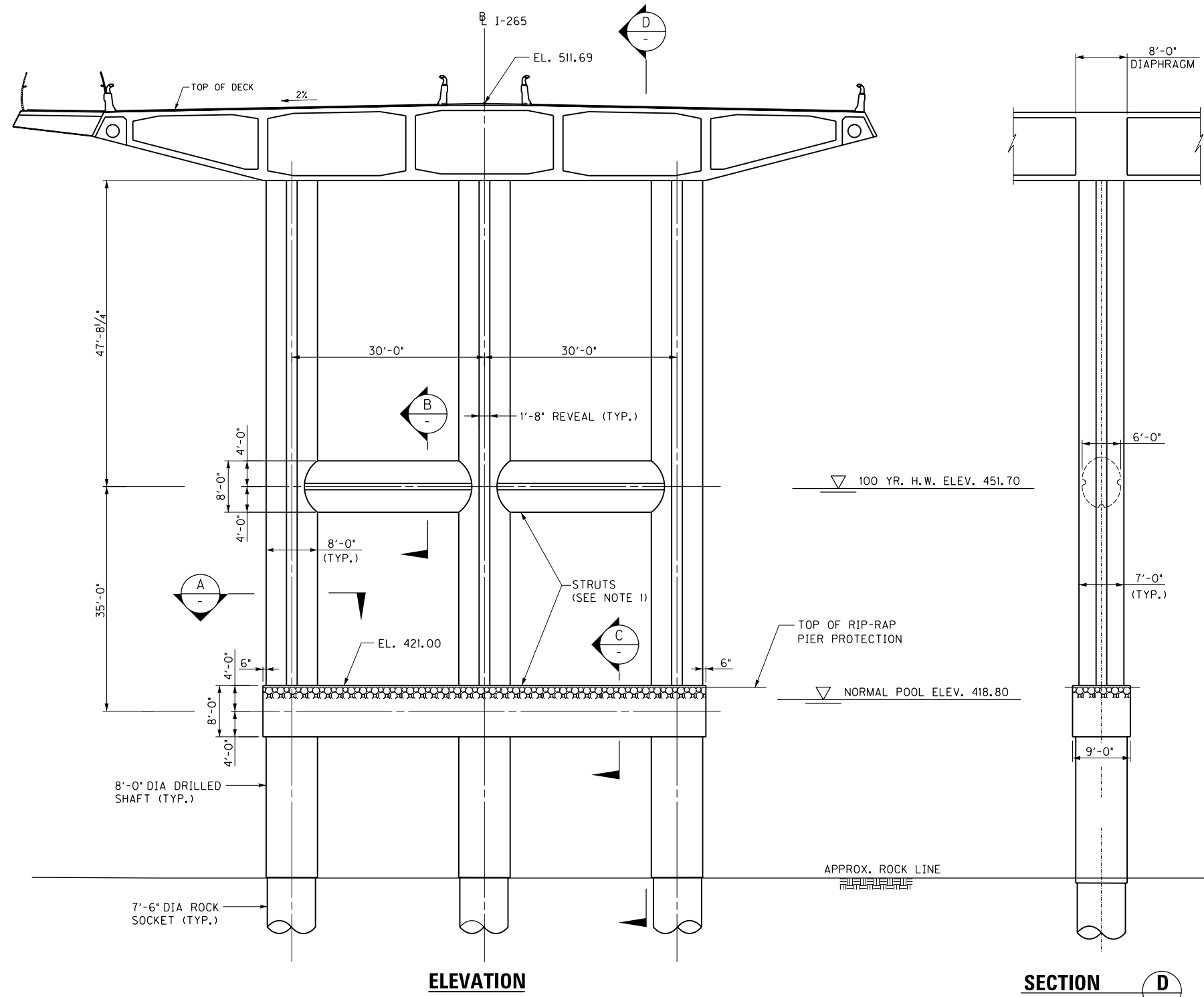
E-SHEET NAME:

MicroStation v8.11.7.180

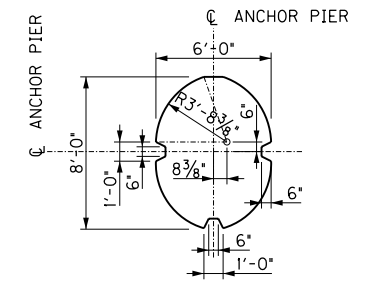
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<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>TOWER LOWER LEG GEOMETRY</b>		
ITEM NUMBER	PREPARED BY <b>PARSONS BRINCKERHOFF</b>	SHEET NO. <b>S7</b>
5-745.00		DRAWING NO.



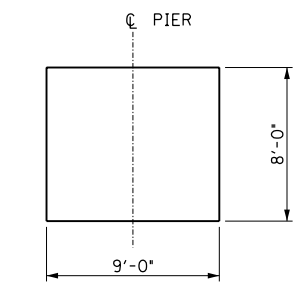
**PRELIMINARY**



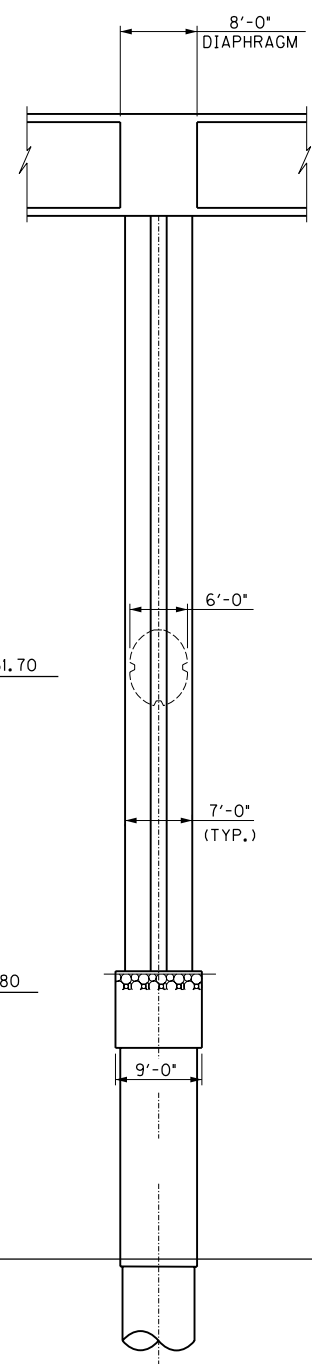
**SECTION A**



**SECTION B**



**SECTION C**



**SECTION D**

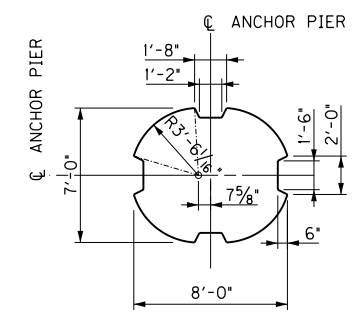
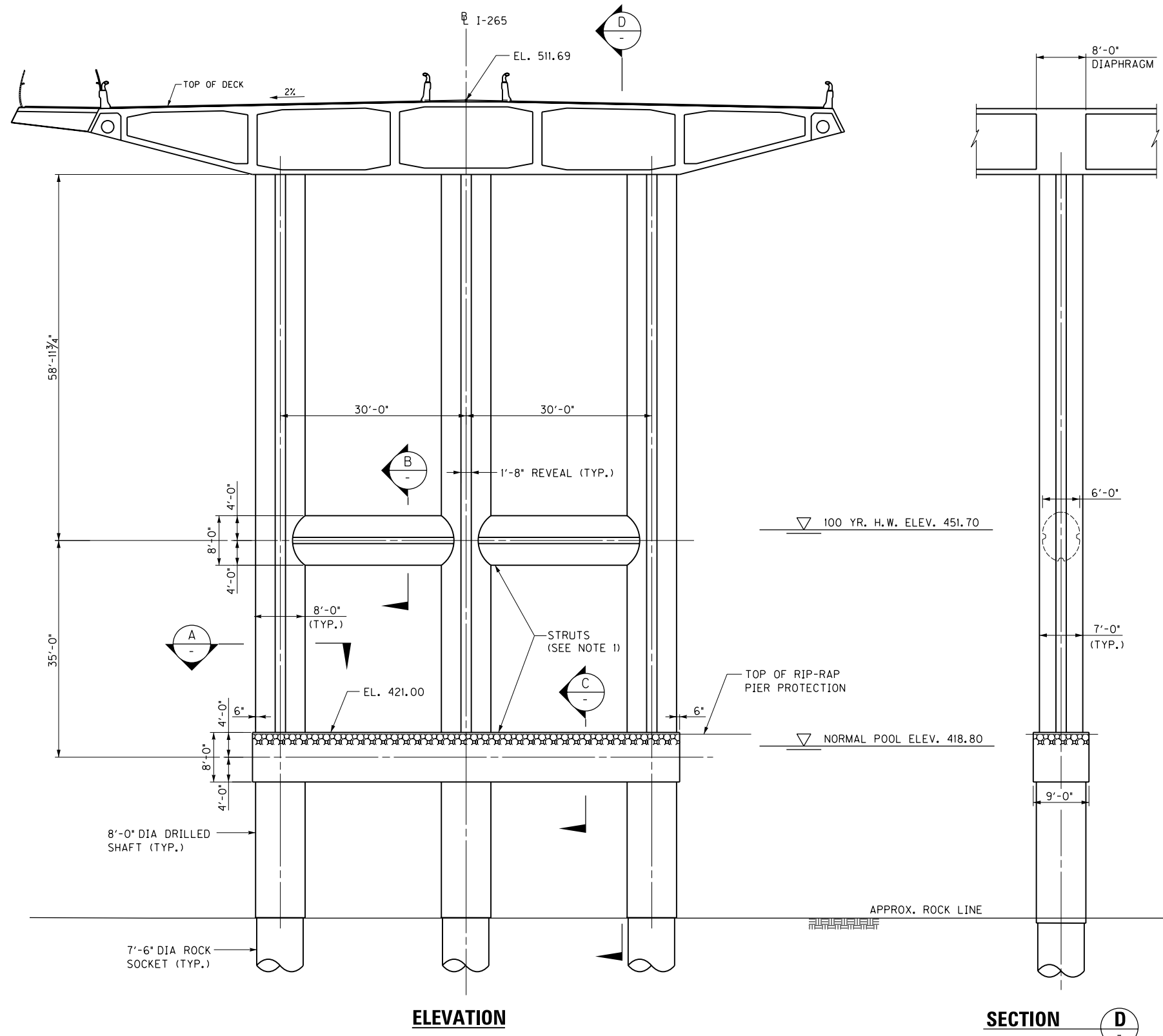
**NOTES**

- 1. HORIZONTAL STRUTS ARE TO BE DESIGNED TO RESIST BARGE COLLISION FORCES DURING FLOOD.

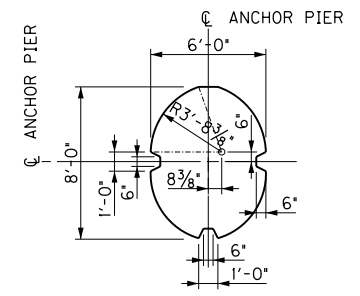
REVISION		DATE
DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:		
DETAILED BY:		
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>PIER 2</b>		
ITEM NUMBER	PREPARED BY <b>PARSONS BRINCKERHOFF</b>	SHEET NO. <b>59</b>
<b>5-745.00</b>		DRAWING NO.

FILE NAME:  
USER: DATE PLOTTED:  
E-SHEET NAME:  
MicroStation v8.11.7.180

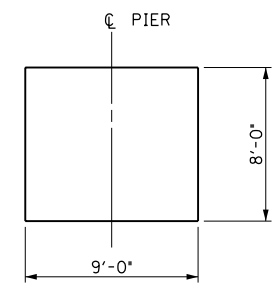
**PRELIMINARY**



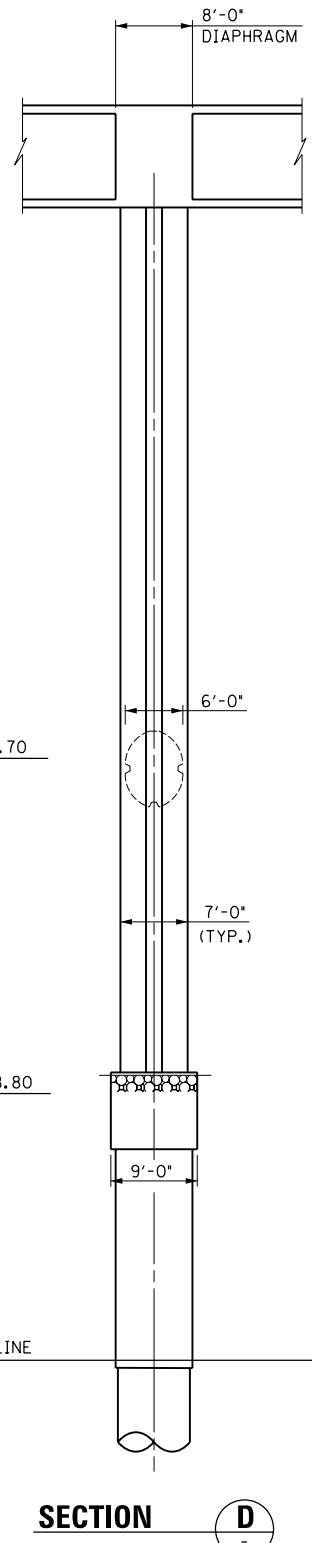
**SECTION A**



**SECTION B**



**SECTION C**



**SECTION D**

**NOTES**

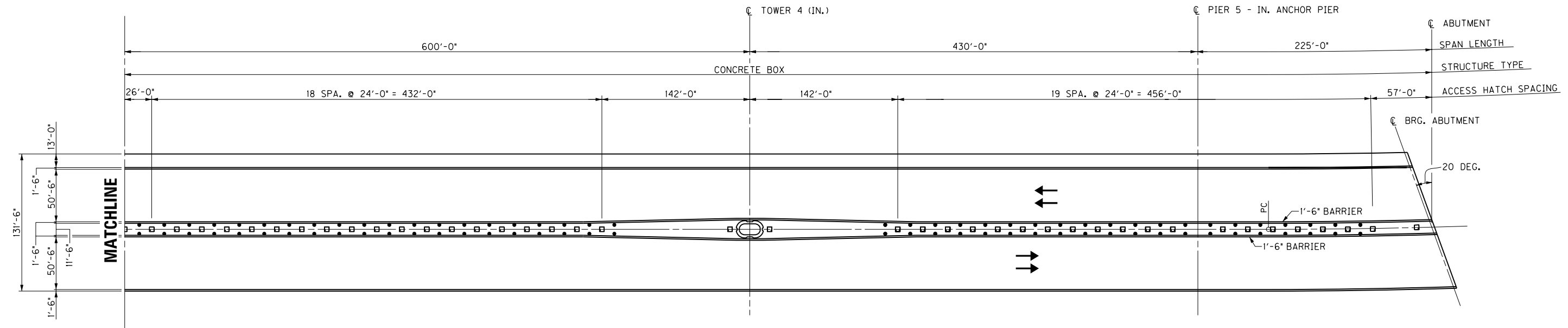
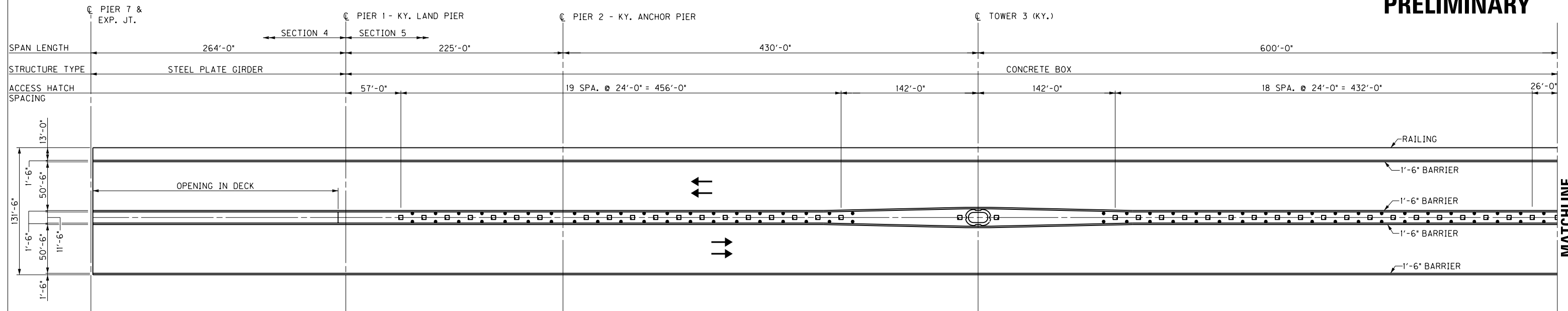
- 1. HORIZONTAL STRUTS ARE TO BE DESIGNED TO RESIST BARGE COLLISION FORCES DURING FLOOD.

REVISION		DATE
DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:		
DETAILED BY:		
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>PIER 5</b>		
ITEM NUMBER <b>5-745.00</b>	PREPARED BY <b>PARSONS BRINCKERHOFF</b>	SHEET NO. <b>S10</b>
		DRAWING NO.

FILE NAME:  
 USER: DATE PLOTTED:  
 E-SHEET NAME:  
 MicroStation v8.11.7.180



**PRELIMINARY**



**DECK PLAN**

FILE NAME:  
USER: DATE PLOTTED:  
E-SHEET NAME:  
MicroStation v8.11.7.180

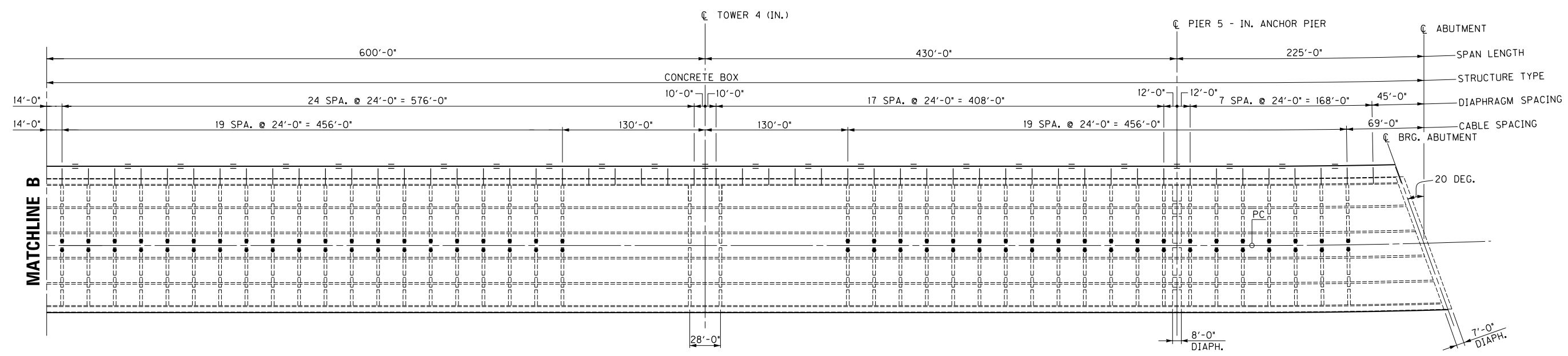
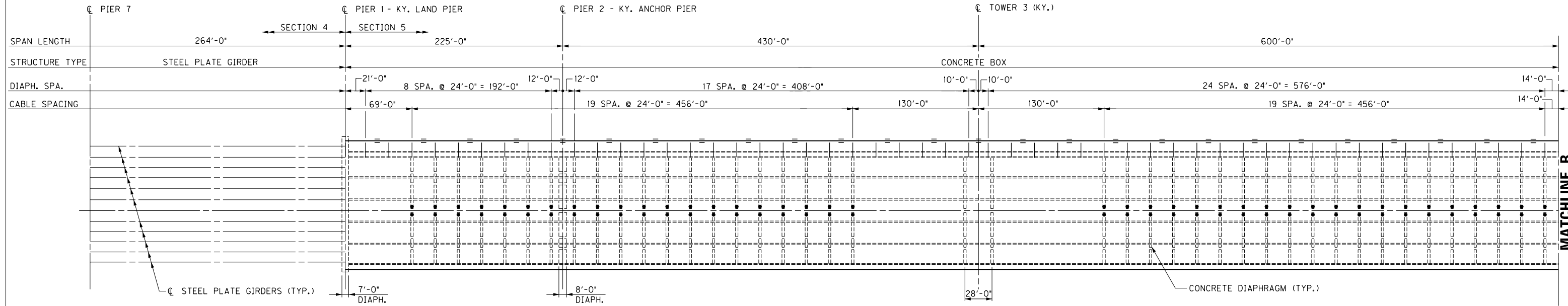
**LEGEND**

- ACCESS HATCH
- CABLES

ITEM NUMBER
5-745.00

REVISION		DATE
DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:		
DETAILED BY:		
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>DECK PLAN</b>		
PREPARED BY <b>PARSONS BRINCKERHOFF</b>		SHEET NO. <b>S12</b> DRAWING NO.

**PRELIMINARY**



**FRAMING PLAN**

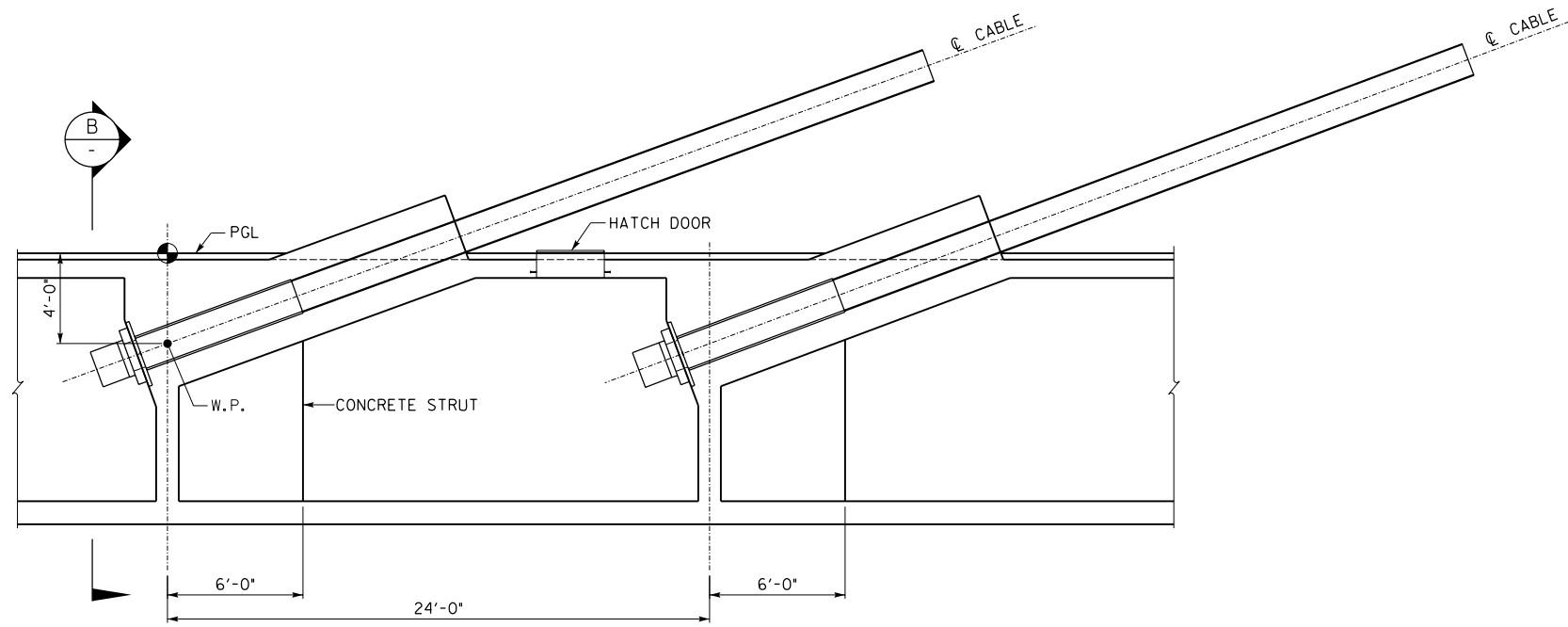
- LEGEND**
- CABLE WORKING POINT, 4'-0" BELOW P.G.L.
  - ≡ STEEL FIELD SPLICE

FILE NAME:  
 USER: DATE PLOTTED:  
 E-SHEET NAME:  
 MicroStation v8.11.7.180

REVISION		DATE
DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:	DETAILED BY:	
<b>Commonwealth of Kentucky</b>		
<b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY		
<b>JEFFERSON</b>		
ROUTE	CROSSING	
<b>I-265</b>	<b>OHIO RIVER</b>	
<b>FRAMING PLAN</b>		
ITEM NUMBER	PREPARED BY	SHEET NO.
<b>5-745.00</b>	<b>PARSONS BRINCKERHOFF</b>	<b>S13</b>
		DRAWING NO.

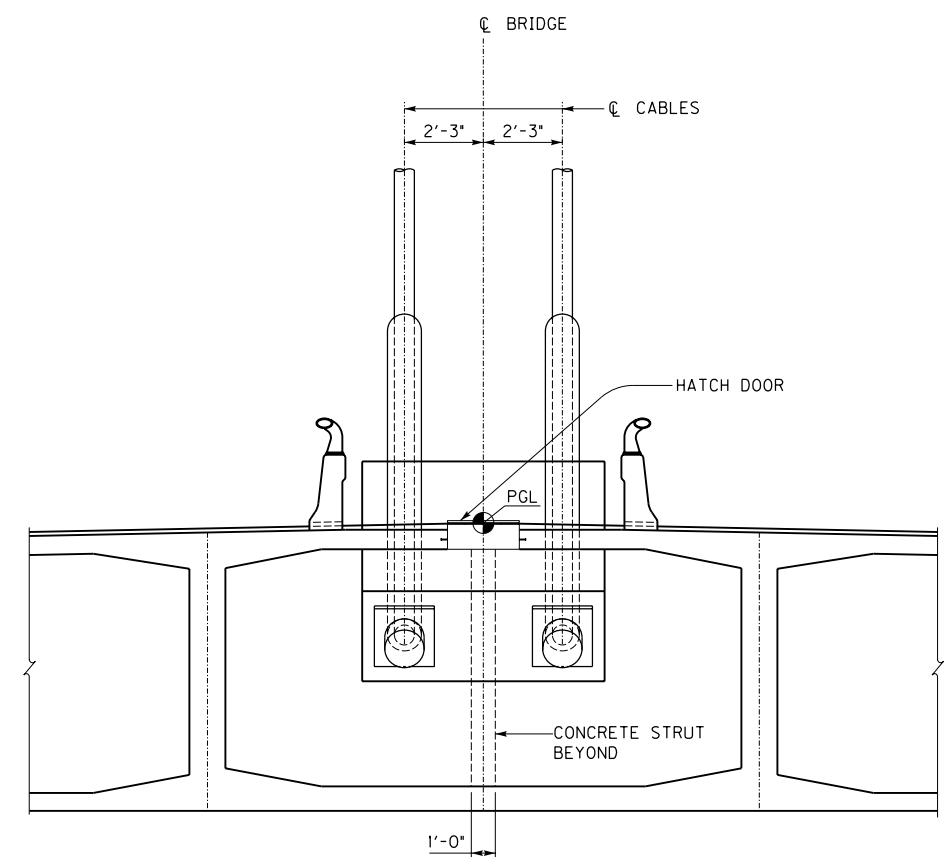


**PRELIMINARY**



**TYPICAL CABLE TO GIRDER ELEVATION**

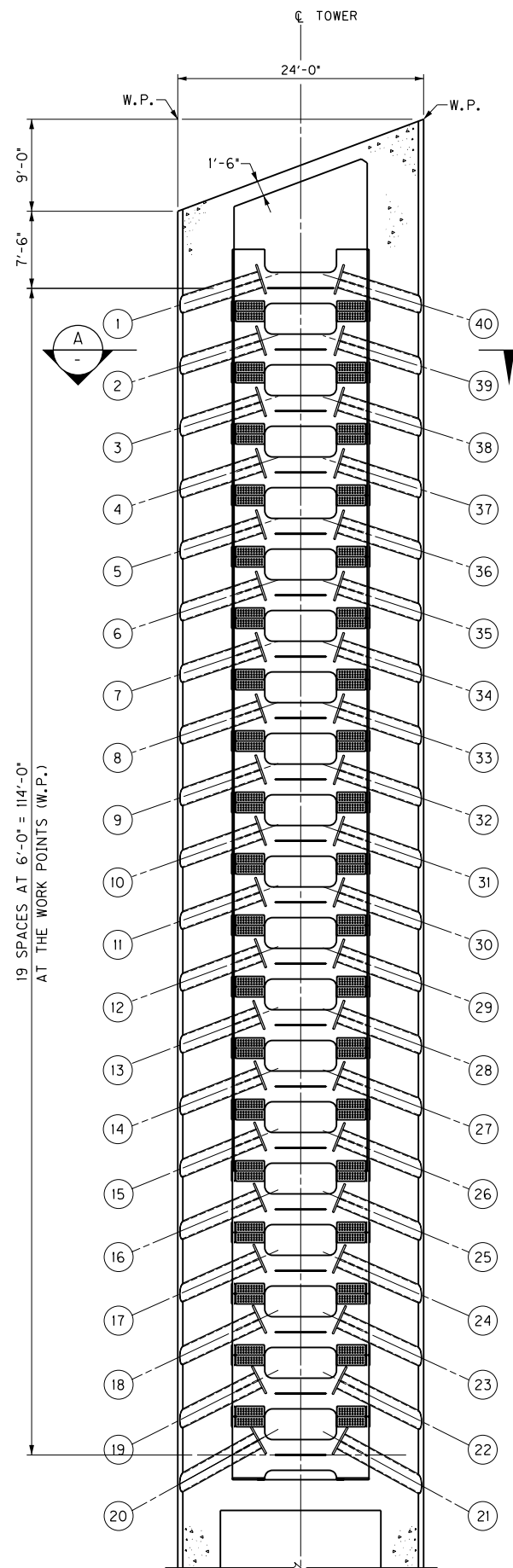
**SECTION A**  
S4



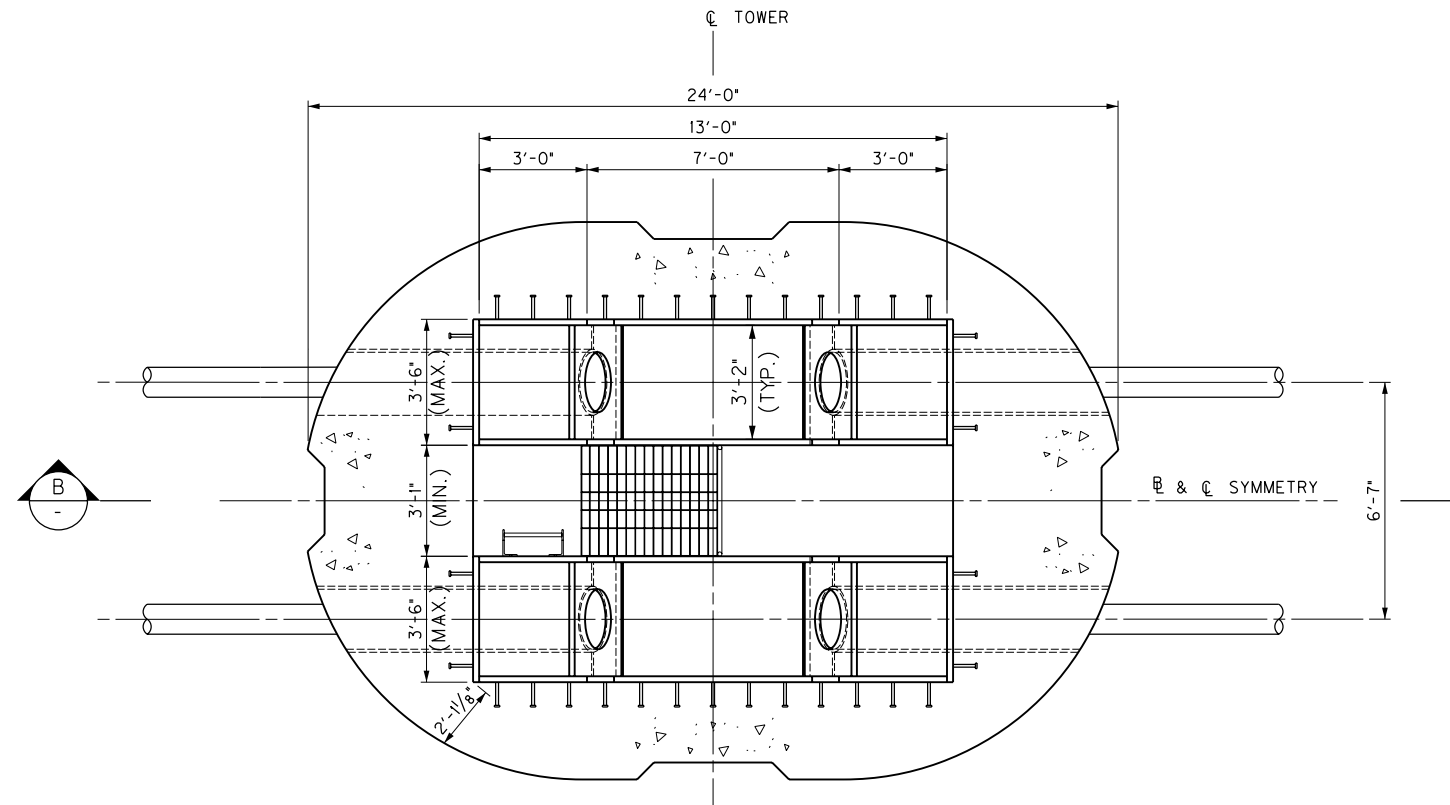
**SECTION B**

FILE NAME:  
USER: DATE PLOTTED:  
E-SHEET NAME:  
MicroStation v8.11.7.180

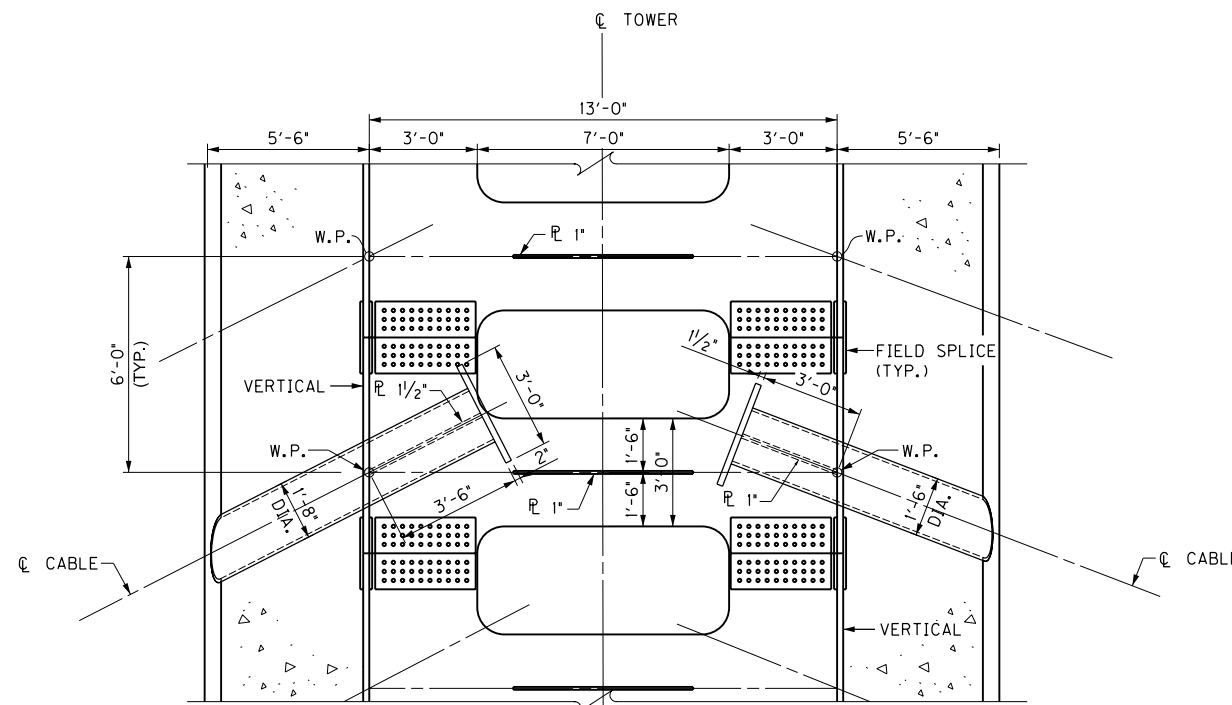
REVISION		DATE
DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:		
DETAILED BY:		
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>CABLE TO GIRDER CONNECTION</b>		
ITEM NUMBER	PREPARED BY <b>PARSONS BRINCKERHOFF</b>	SHEET NO. <b>S14</b>
<b>5-745.00</b>		DRAWING NO.



TYPICAL CABLE TO TOWER CONNECTION  
LONGITUDINAL SECTION



SECTION A



SECTION B  
TYPICAL FRAMES

FILE NAME:

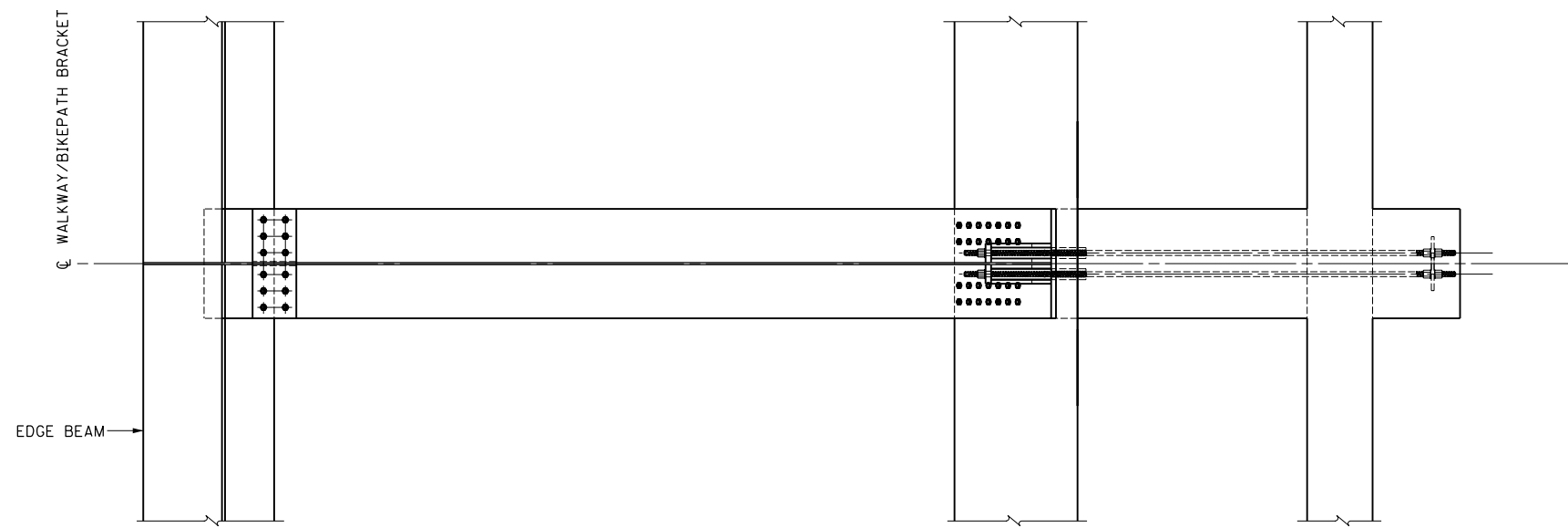
USER: DATE PLOTTED:

E-SHEET NAME:

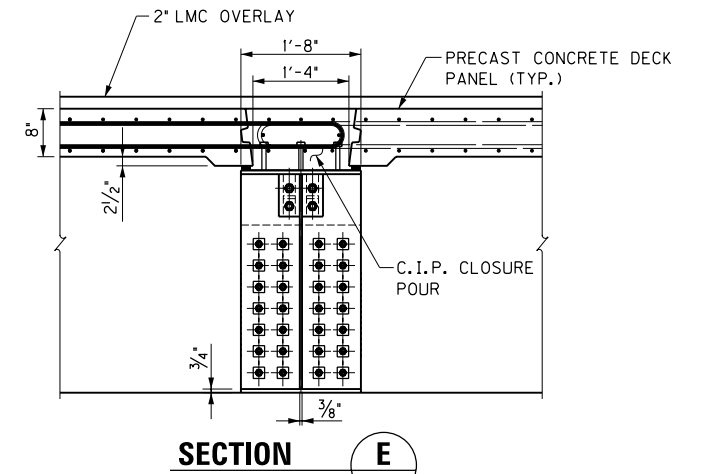
MicroStation v8.11.7.180

REVISION		DATE
DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:	DETAILED BY:	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>CABLE TO TOWER CONNECTION</b>		
ITEM NUMBER	PREPARED BY <b>PARSONS BRINCKERHOFF</b>	SHEET NO. <b>S15</b>
5-745.00		DRAWING NO.

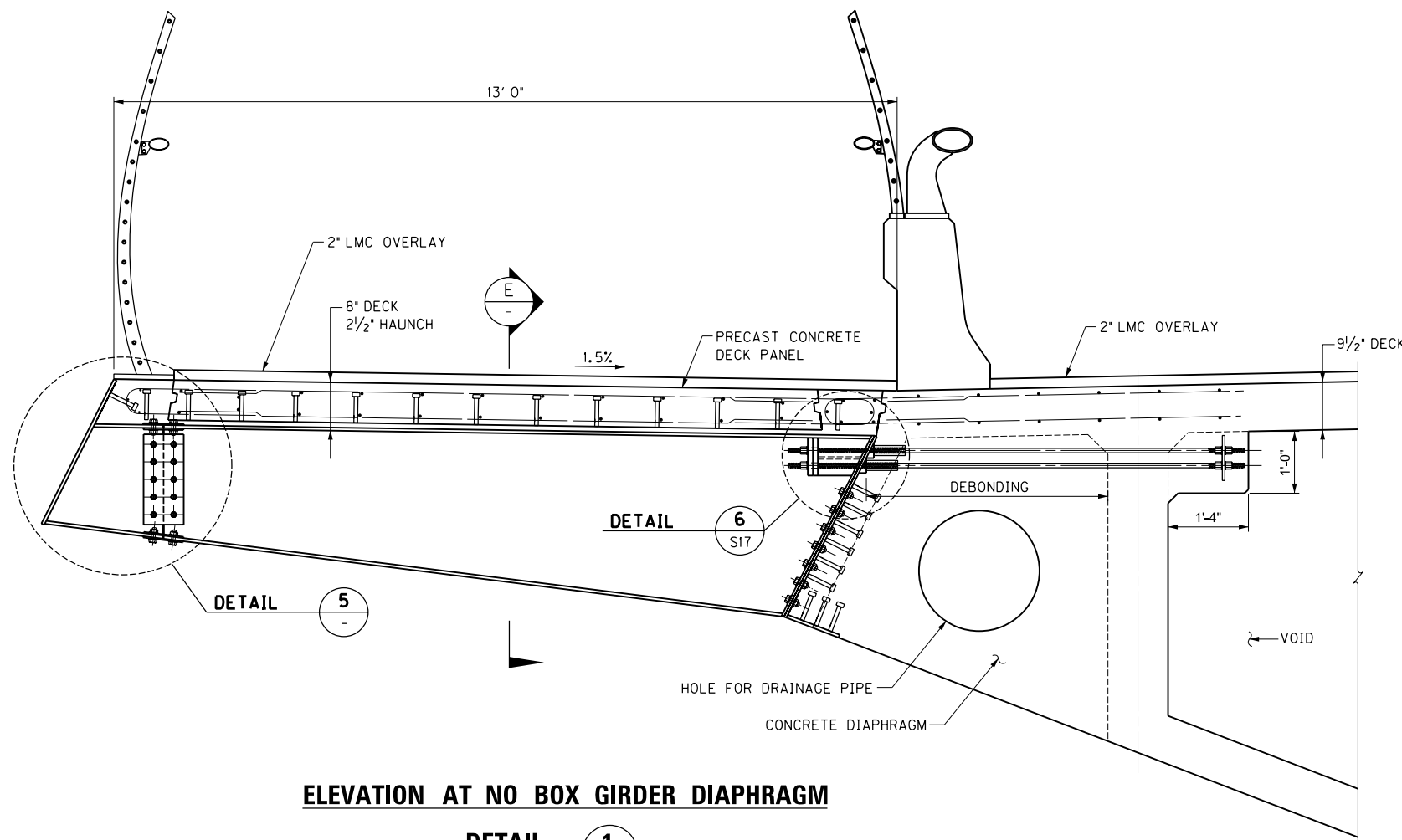
**PRELIMINARY**



**PLAN**  
(DECK REMOVED)

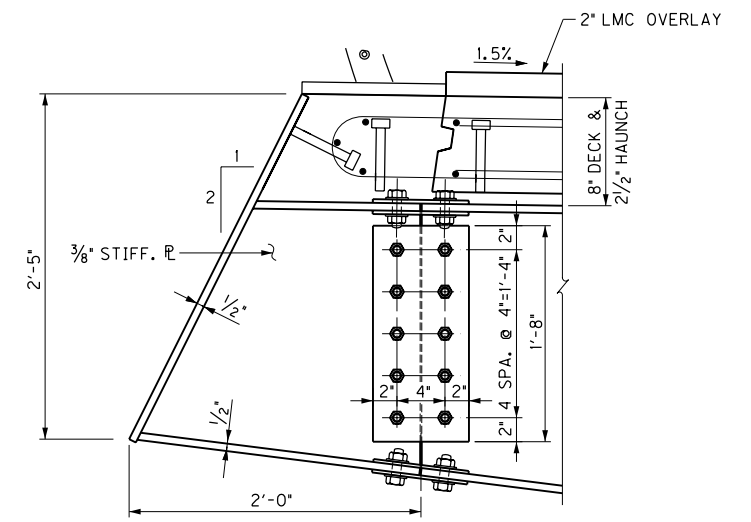


**SECTION E**



**ELEVATION AT NO BOX GIRDER DIAPHRAGM**

**DETAIL 1**  
S4

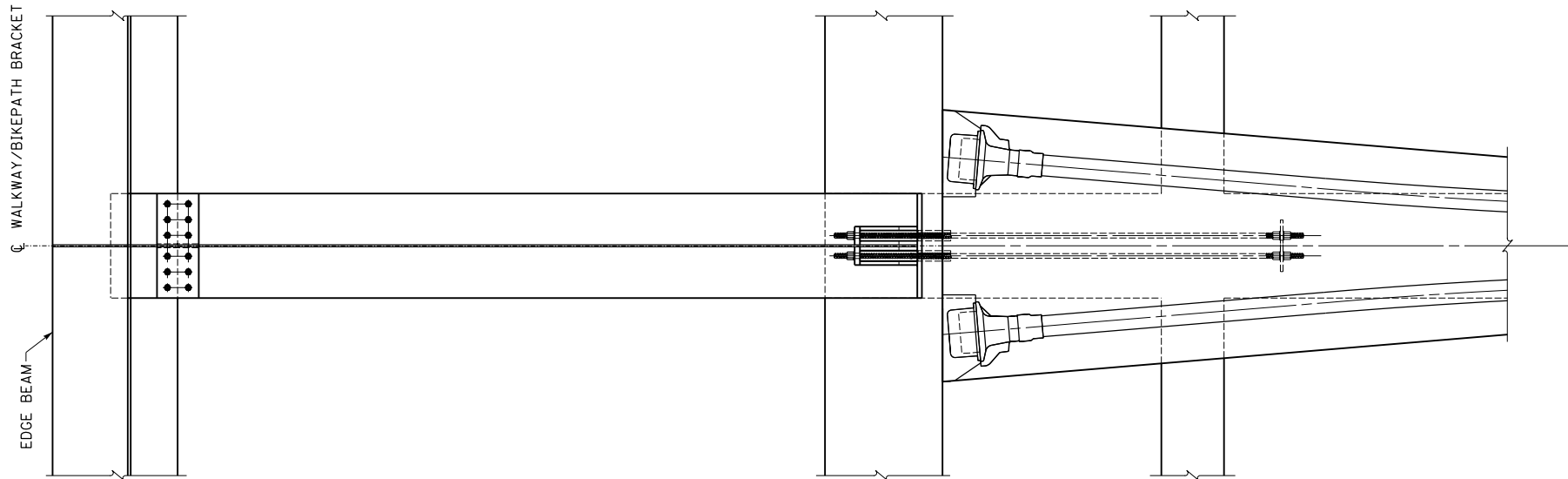


**DETAIL 5**

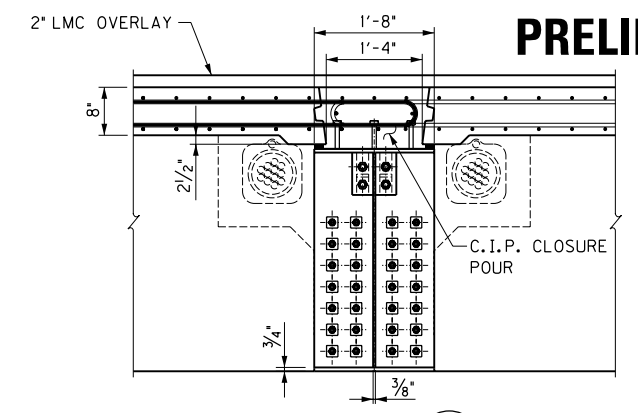
REVISION		DATE
DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:	DETAILED BY:	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>WALKWAY / BIKEPATH DETAILS</b> <b>SHEET 1 OF 2</b>		
ITEM NUMBER	PREPARED BY <b>PARSONS BRINCKERHOFF</b>	SHEET NO. <b>S16</b>
<b>5-745.00</b>		DRAWING NO.

FILE NAME:  
 USER: DATE PLOTTED:  
 E-SHEET NAME:  
 MicroStation v8.11.7.180

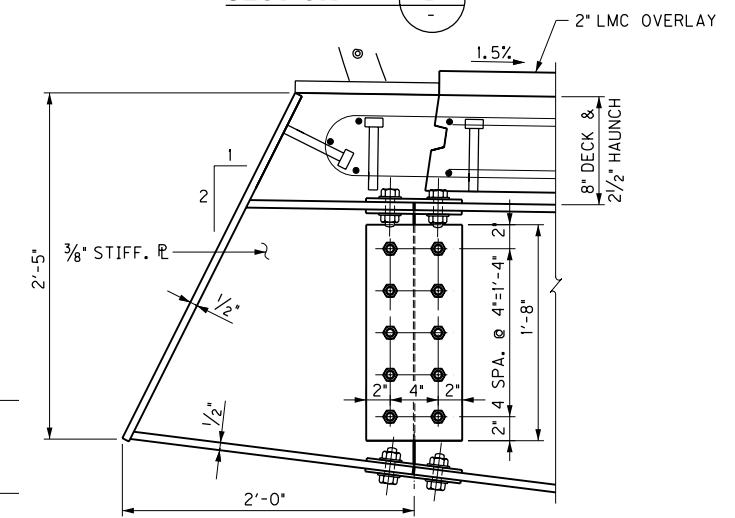
**PRELIMINARY**



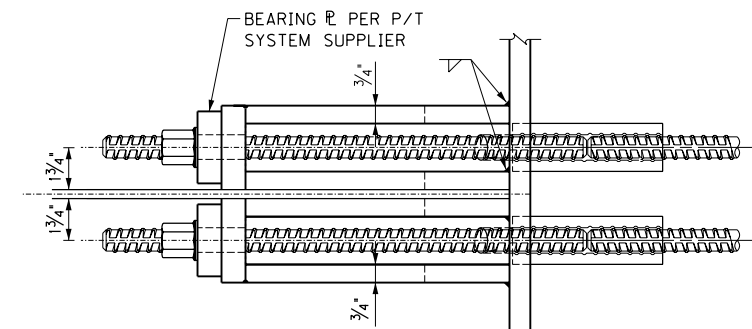
**PLAN**  
(DECK REMOVED)



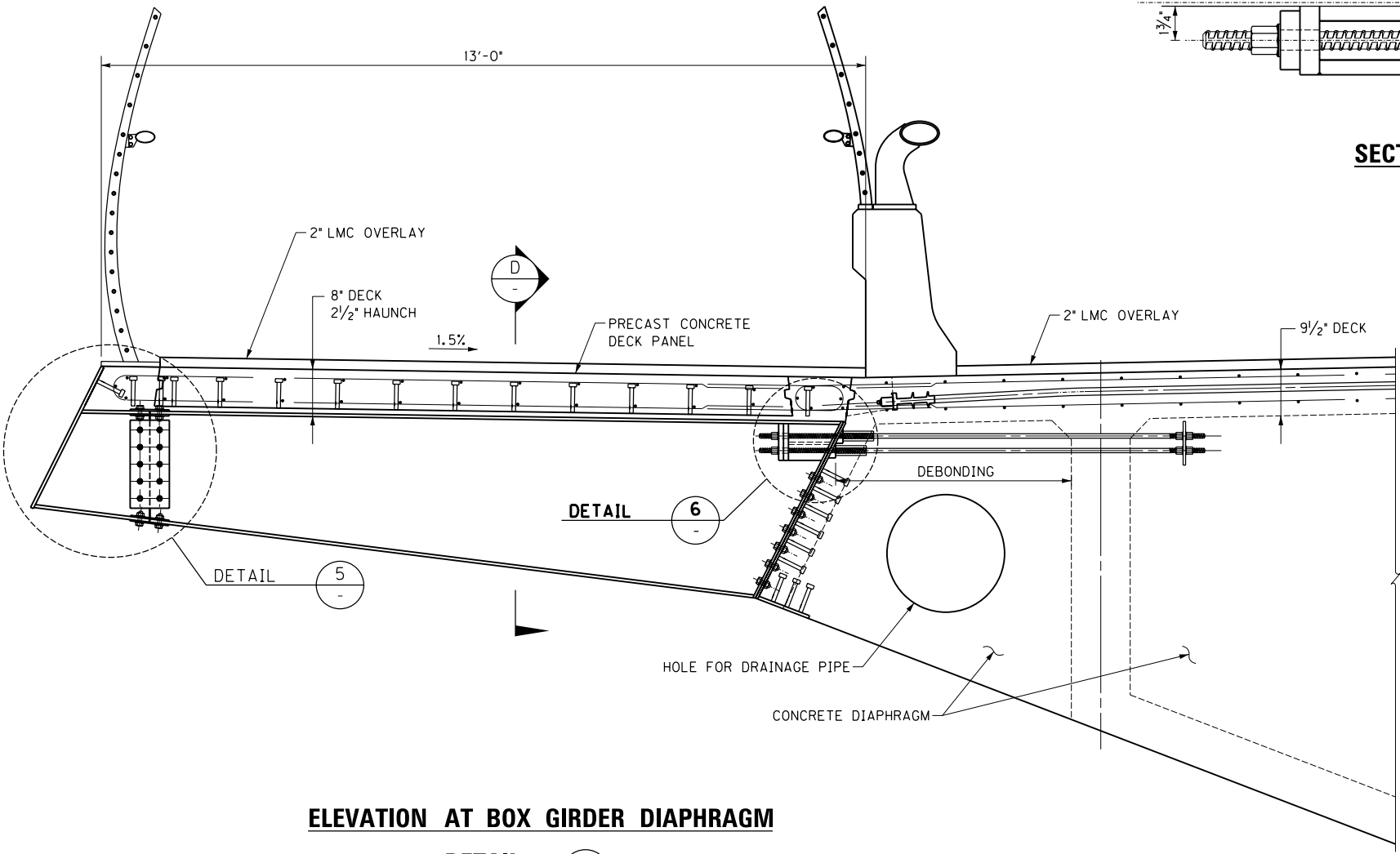
**SECTION D**



**DETAIL 5**

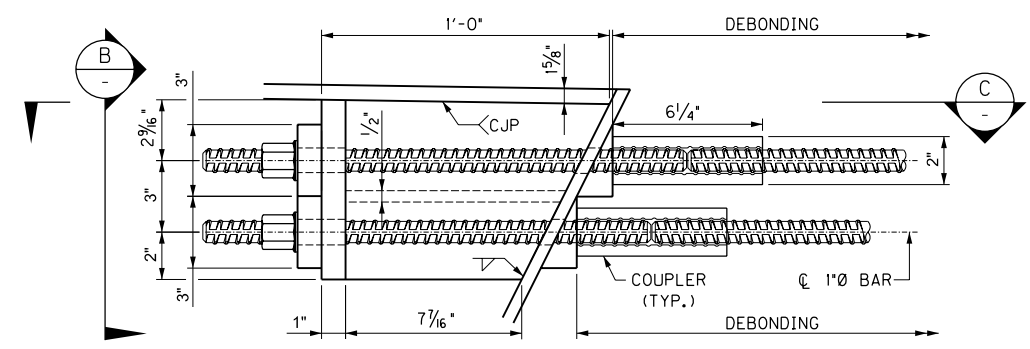


**SECTION "C"**

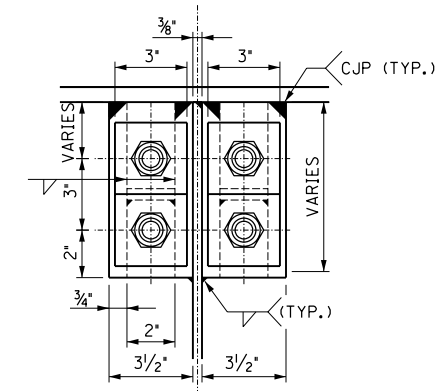


**ELEVATION AT BOX GIRDER DIAPHRAGM**

**DETAIL 1**  
S4



**DETAIL 6**

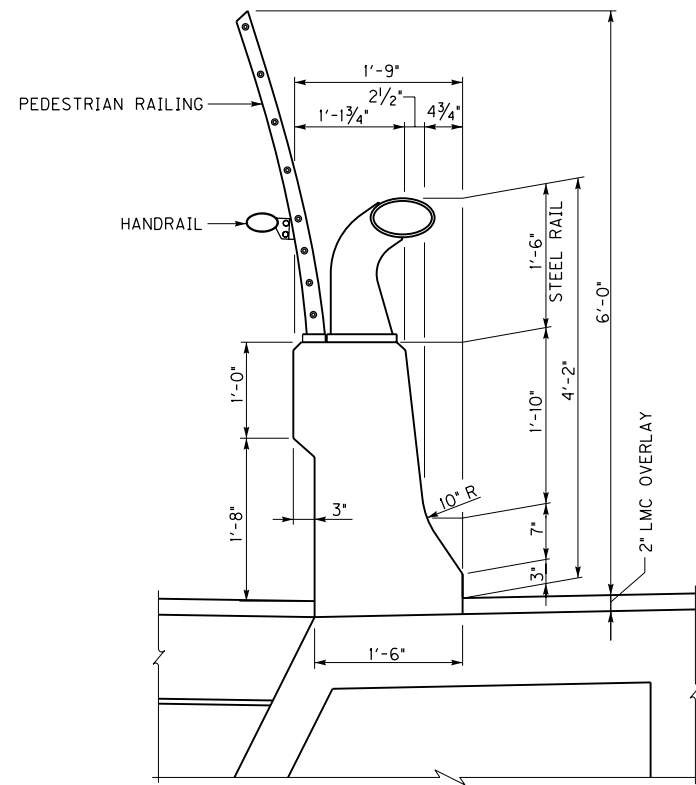


**SECTION "B"**

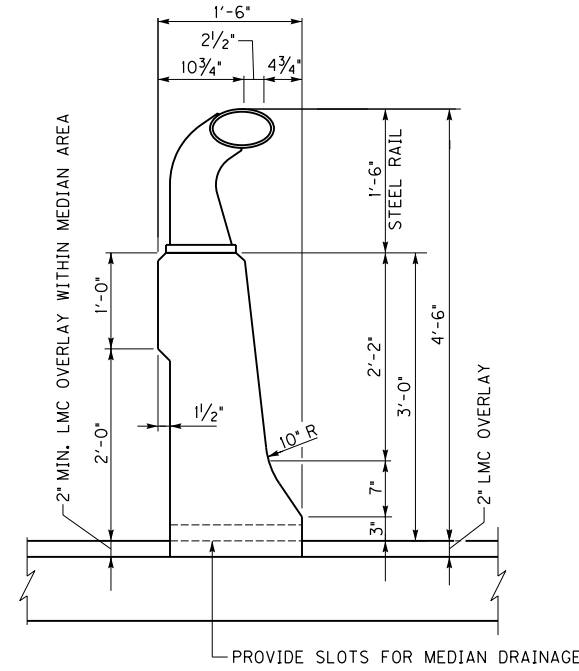
ITEM NUMBER	5-745.00
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REVISION		DATE
DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:	DETAILED BY:	
<b>Commonwealth of Kentucky</b>		
<b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY		
<b>JEFFERSON</b>		
ROUTE	CROSSING	
<b>I-265</b>	<b>OHIO RIVER</b>	
<b>WALKWAY / BIKEPATH DETAILS</b>		
<b>SHEET 2 OF 2</b>		
PREPARED BY		SHEET NO.
<b>PARSONS BRINCKERHOFF</b>		<b>S17</b>
DRAWING NO.		

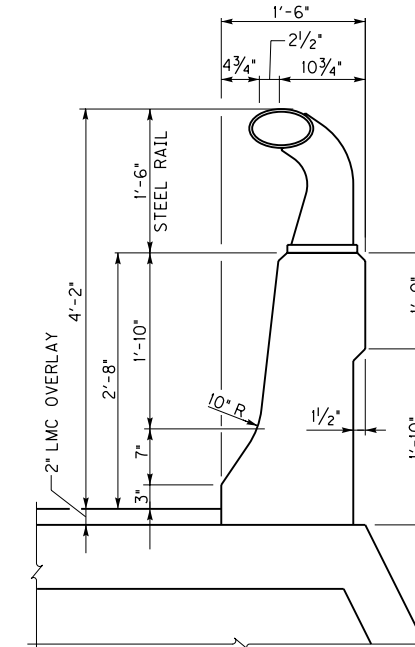
FILE NAME:  
 USER: DATE PLOTTED:  
 E-SHEET NAME:  
 MicroStation v8.11.7.180



**TEXAS HEAVY TRUCK BARRIER TYPE T80HT – MODIFIED**  
KENTUCKY BOUND - FASCIA BARRIER



**TEXAS HEAVY TRUCK BARRIER – TYPE T80HT – MODIFIED**  
KENTUCKY AND INDIANA MEDIAN ROADWAY BARRIER



**TEXAS HEAVY TRUCK BARRIER – TYPE T80HT**  
INDIANA BOUND ROADWAY FASCIA BARRIER

FILE NAME:

USER: DATE PLOTTED:

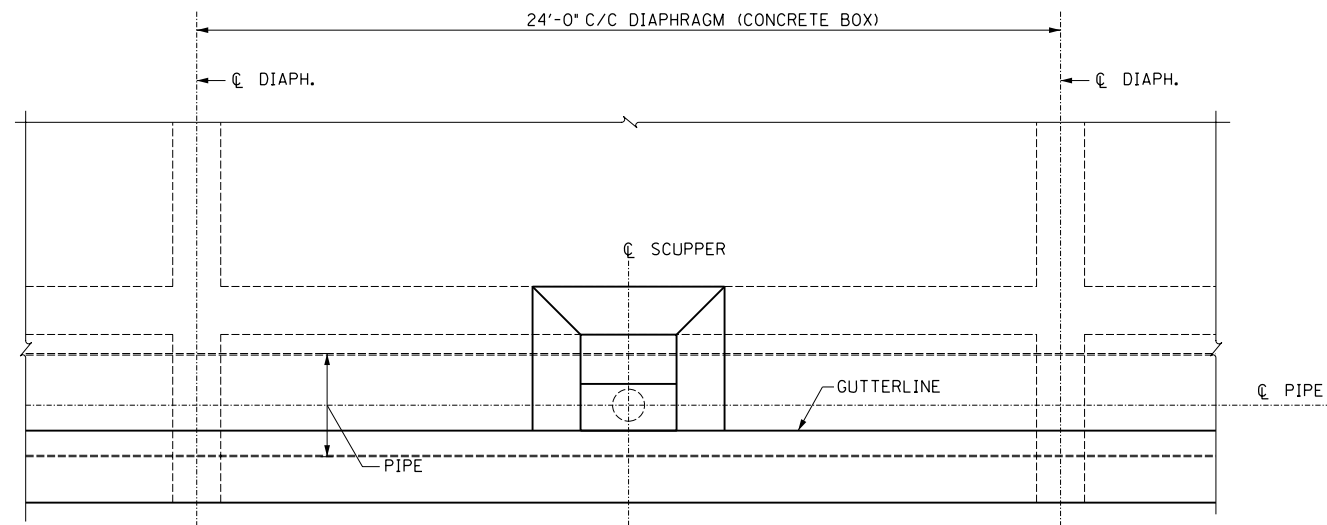
E-SHEET NAME:

MicroStation v8.11.7.180

REVISION		DATE
DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:		
DETAILED BY:		
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>BARRIER DETAILS</b>		
ITEM NUMBER	PREPARED BY <b>PARSONS BRINCKERHOFF</b>	SHEET NO. <b>S18</b>
5-745.00		DRAWING NO.

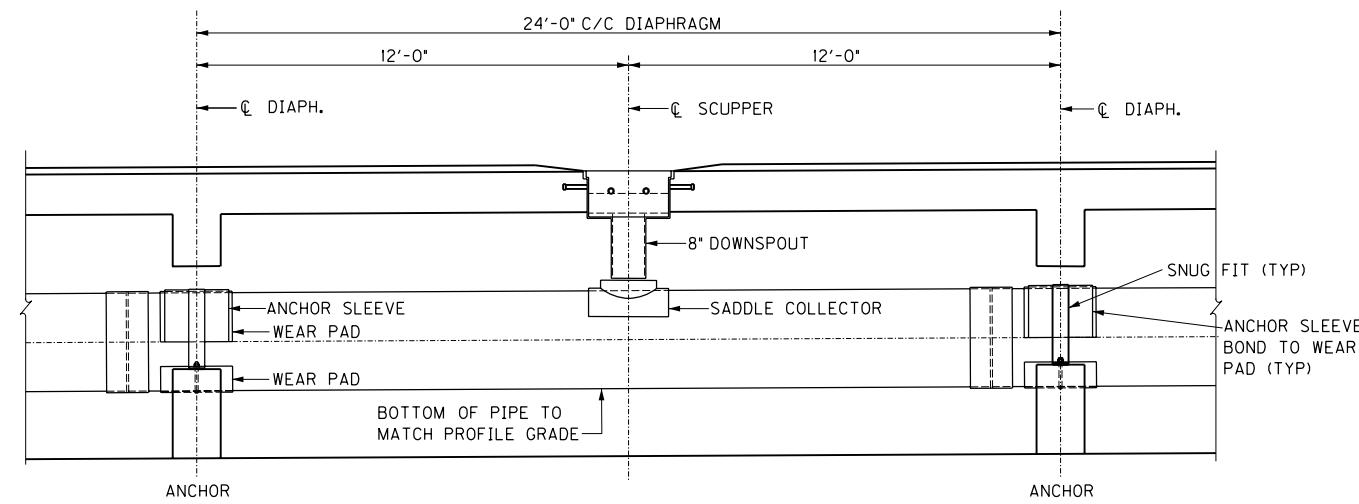
ITEM NUMBER
5-745.00

**PRELIMINARY**

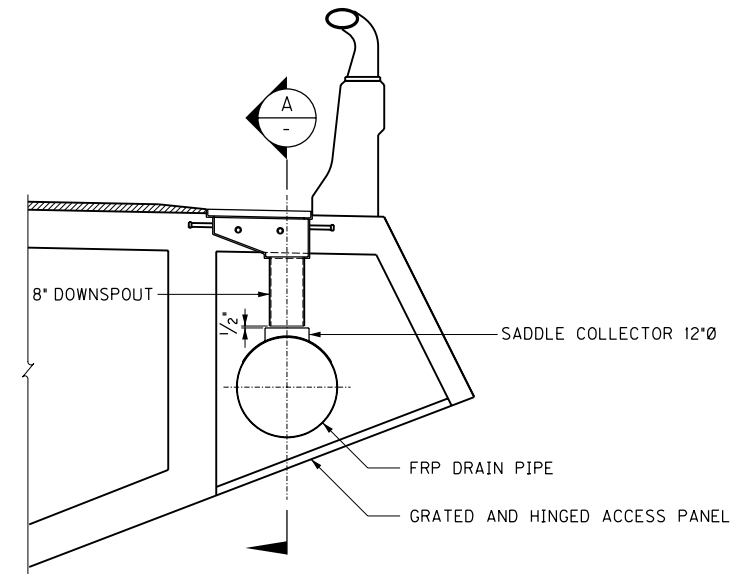


**PLAN**

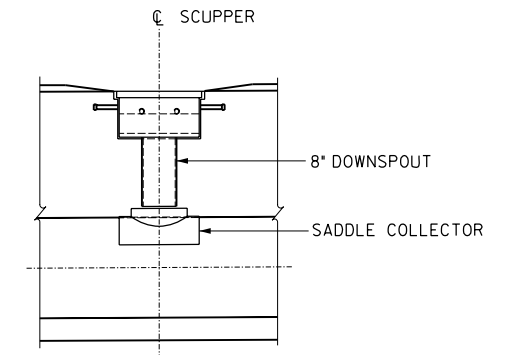
UP STREAM SIDE SHOWN; DOWN STREAM SIDE SIMILAR



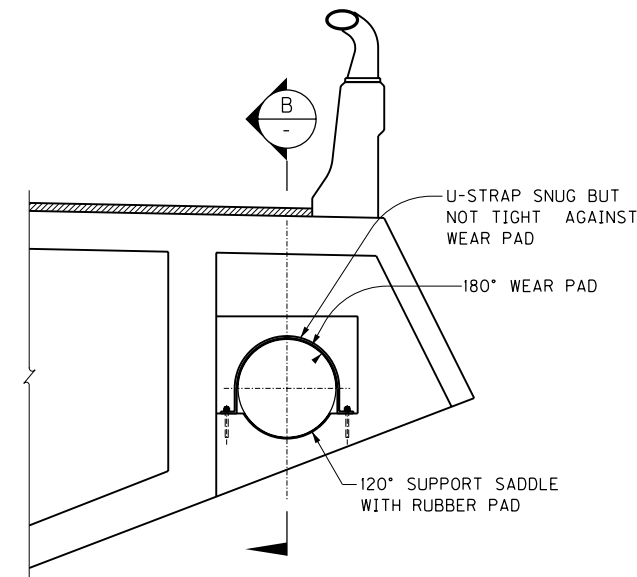
**LONGITUDINAL SECTION BETWEEN DIAPHRAGMS OF CONCRETE BOX GIRDER**



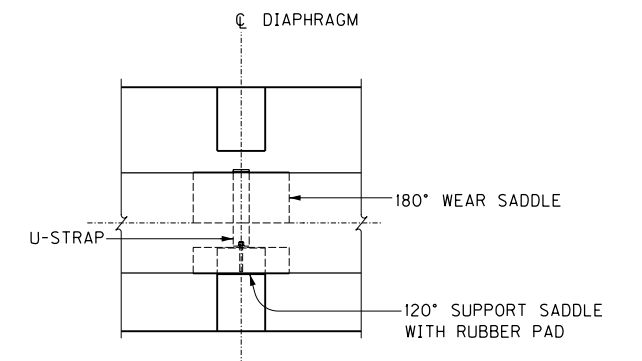
**SECTION AT SCUPPER**



**SECTION A**



**SECTION AT CONCRETE DIAPHRAGM**



**SECTION B**

FILE NAME:

USER: DATE PLOTTED:

E-SHEET NAME:

MicroStation v8.11.7.180

REVISION	DATE
DATE: SEPTEMBER 2011	CHECKED BY
DESIGNED BY:	
DETAILED BY:	

**Commonwealth of Kentucky**  
**DEPARTMENT OF HIGHWAYS**

COUNTY  
**JEFFERSON**

ROUTE CROSSING  
**I-265 OHIO RIVER**

**ROADWAY DRAIN PIPE DETAILS**

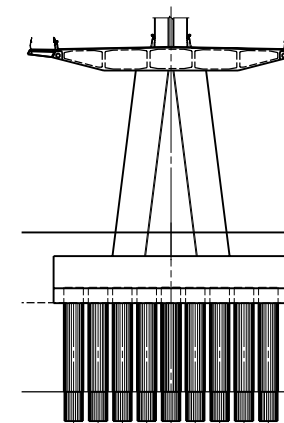
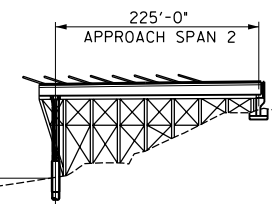
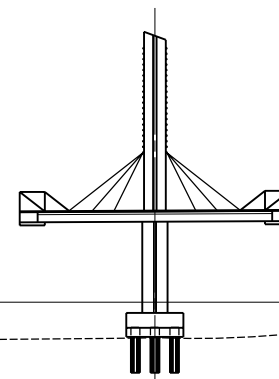
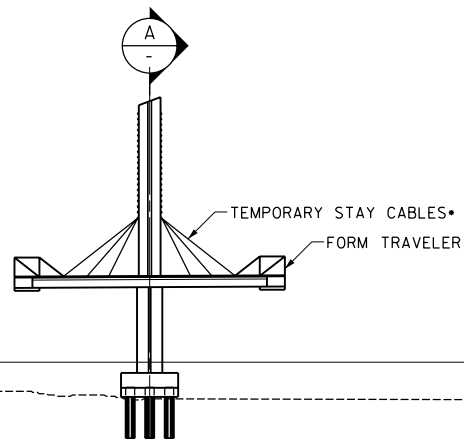
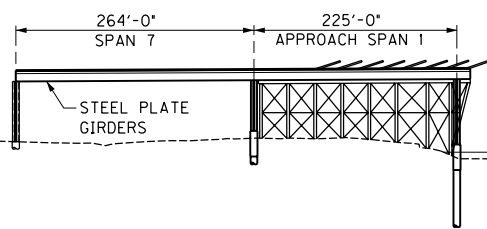
ITEM NUMBER	PREPARED BY <b>PARSONS BRINCKERHOFF</b>	SHEET NO. <b>S19</b>
5-745.00		DRAWING NO.

**PRELIMINARY**

**STAGE 1**

1. CONSTRUCT CONCRETE TOWER.
2. CONSTRUCT CONCRETE BOX BY CAST-IN-PLACE BALANCED CANTILEVER METHOD WITHOUT WALKWAY/BIKEPATH.
3. CONSTRUCT CAST-IN-PLACE APPROACH SPANS ON FALSE-WORK WITHOUT WALKWAY/BIKEPATH.
4. STRESS ALL APPROACH SPAN PT TENDONS EXCEPT NEGATIVE MOMENT PT TENDONS OVER ANCHOR PIERS.
5. ERECT STEEL PLATE GIRDER AND CAST CONCRETE DECK OF SPAN 7.

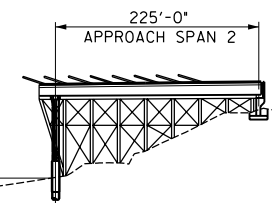
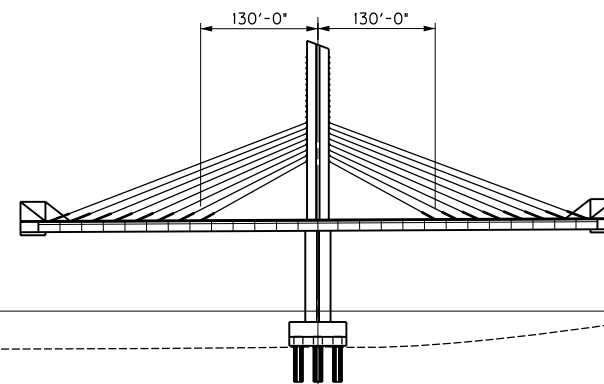
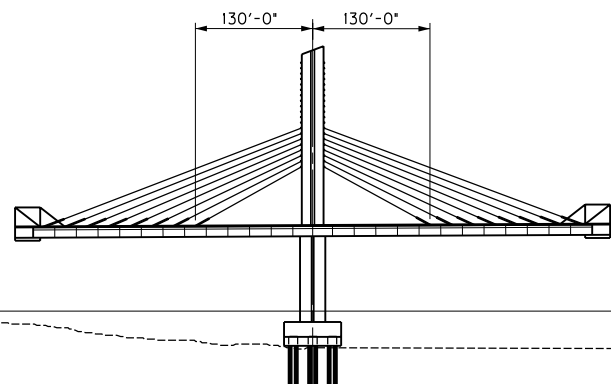
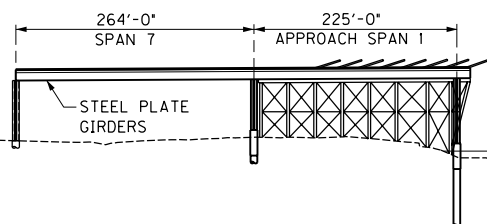
•TEMPORARY POST-TENSIONING ARE REQUIRED DURING THE BALANCED CANTILEVER CONCRETE BOX GIRDER CONSTRUCTION. CONTRACTOR MAY USE TEMPORARY STAY CABLES OR OTHER TEMPORARY MEASURES AS REQUIRED TO SUPPLEMENT THE TEMPORARY POST-TENSIONING.



**SECTION A**

**STAGE 2**

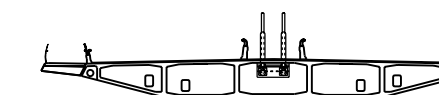
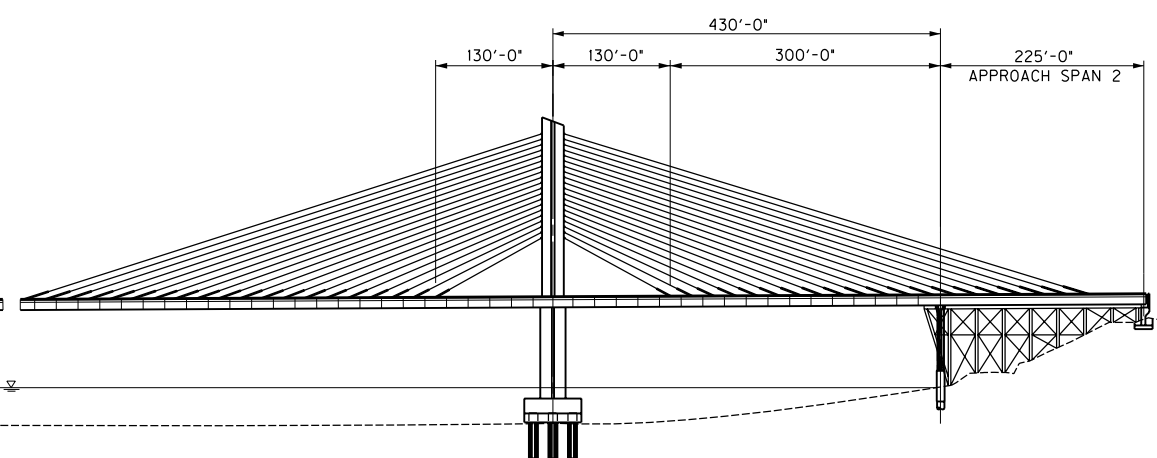
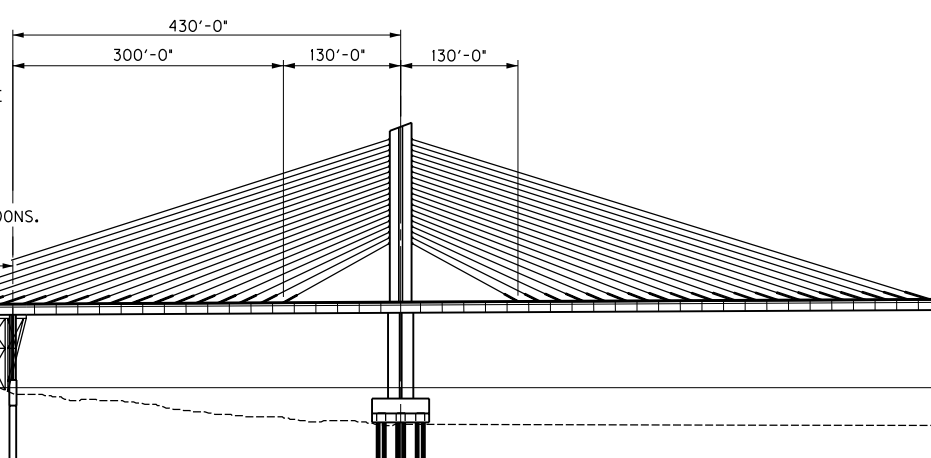
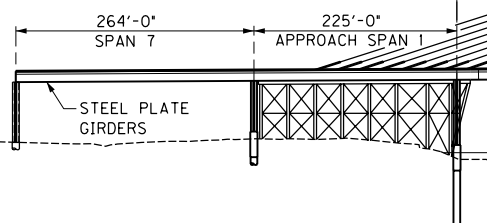
1. CONSTRUCT CABLE SUPPORTED SEGMENTS IN BALANCED FASHION.



**CONCRETE BOX GIRDER WITHOUT CABLE**

**STAGE 3**

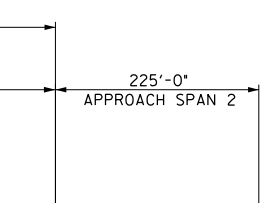
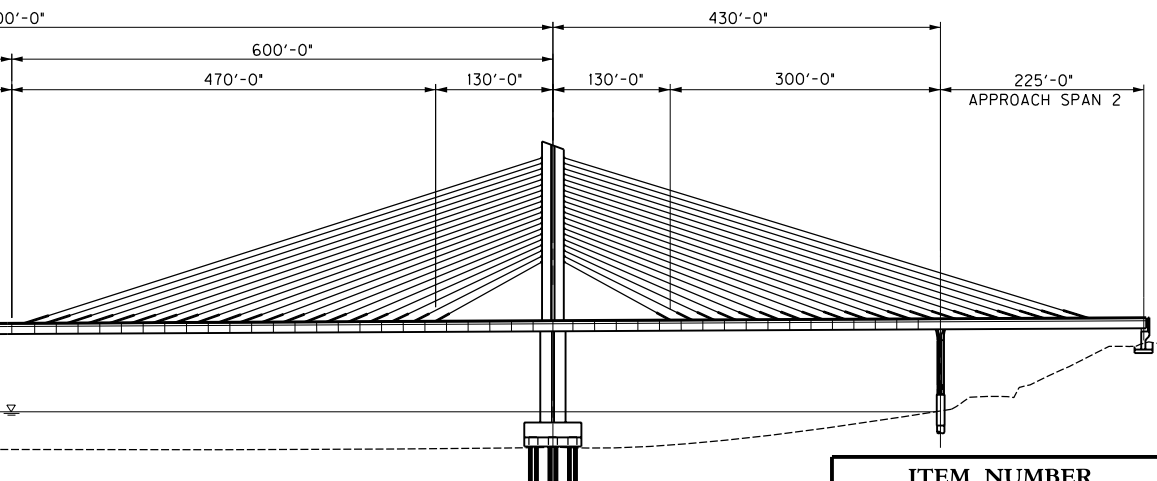
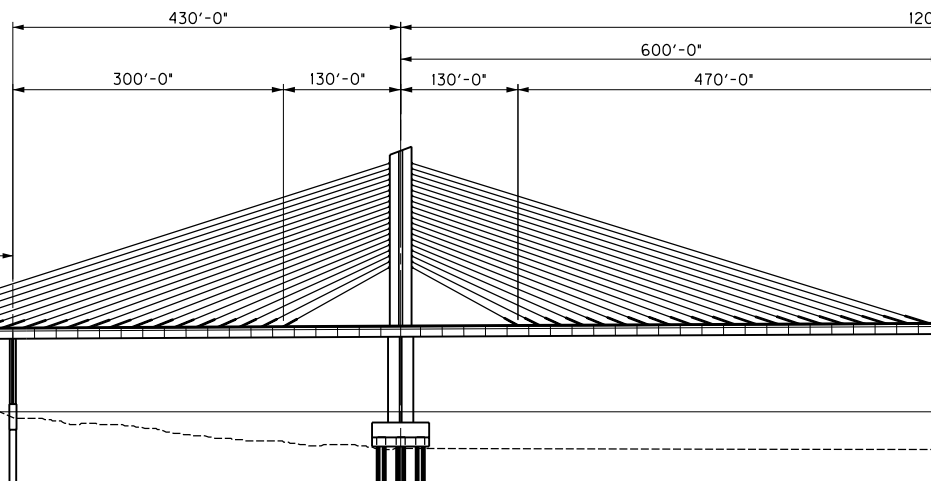
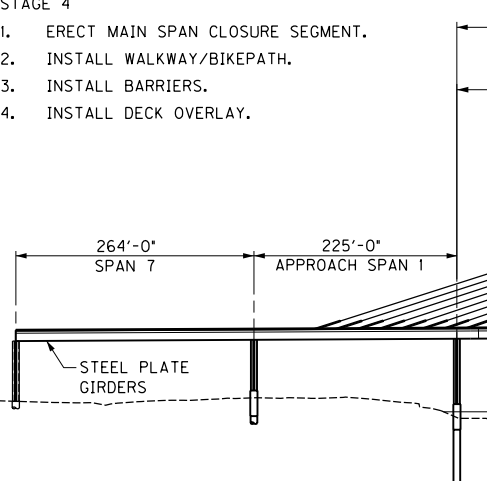
1. WHEN SEGMENTS REACH ANCHORAGE PIERS, POUR CLOSURE BETWEEN CABLE SUPPORTED SPAN AND APPROACH SPAN.
2. CONTINUE ERECTING MAIN SPAN SEGMENTS, WHILE INSTALLING AND TENSIONING STAY CABLES ON THE APPROACH SPAN.
3. POUR CLOSURE ON APPROACH SPAN PIER.
4. STRESS ALL REMAINING APPROACH SPAN PT TENDONS.



**CONCRETE BOX GIRDER WITH CABLE**

**STAGE 4**

1. ERECT MAIN SPAN CLOSURE SEGMENT.
2. INSTALL WALKWAY/BIKEPATH.
3. INSTALL BARRIERS.
4. INSTALL DECK OVERLAY.



ITEM NUMBER	5-745.00
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REVISION		DATE
DATE: SEPTEMBER 2011	CHECKED BY	
DESIGNED BY:	DETAILED BY:	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-265</b>	CROSSING <b>OHIO RIVER</b>	
<b>SUGGESTED</b> <b>CONSTRUCTION SEQUENCE</b>		
PREPARED BY <b>PARSONS BRINCKERHOFF</b>		SHEET NO. <b>S20</b> DRAWING NO.

FILE NAME:

USER: DATE PLOTTED:

E-SHEET NAME:

MicroStation v8.11.7.180