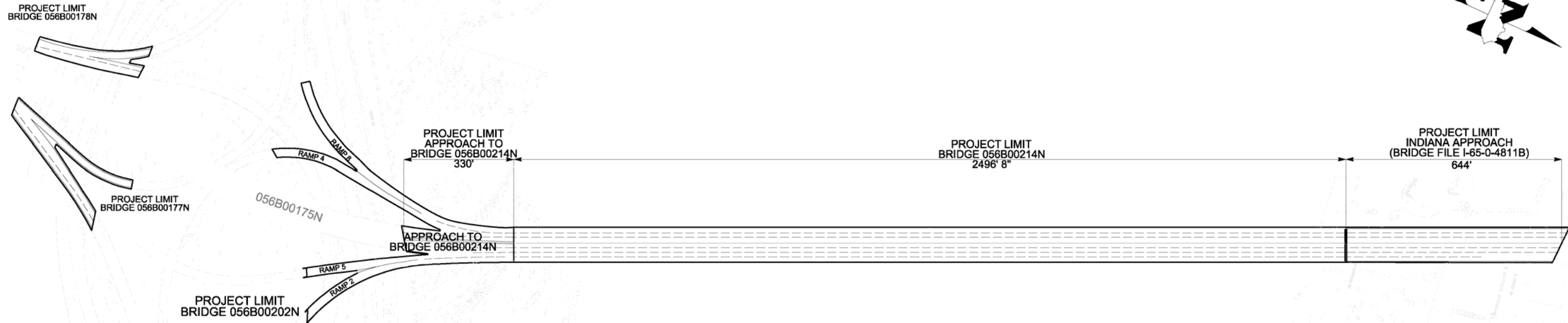




# Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS



FILE NAME: John F. Kennedy Bridge Over Ohio River

USER: Farhad Abad  
DATE PLOTTED: Dec. 2, 2011

E-SHEET NAME:

MicroStation v8.11.7.180

## LAYOUT MAP

NOT TO SCALE

<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF JEFFERSON</b>	
ITEM NO. 5-801.00	
PROJECT NUMBER: FD52 056 0065 136-138	
LETTING DATE: JANUARY 27, 2012	
RECOMMENDED BY: FARHAD ABAD PROJECT MANAGER	DATE: Dec. 2, 2011
PLAN APPROVED BY:	DATE: 12-2-11

TRANSPORTATION CABINET  
DEPARTMENT OF HIGHWAYS

**JEFFERSON COUNTY  
I-65 OVER OHIO RIVER  
JOHN F. KENNEDY MEMORIAL BRIDGE  
STRINGER BEARING &  
EXPANSION JOINT REPLACEMENT**

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
3	KENNEDY BRIDGE TITLE & INDEX
4	GENERAL NOTES
5	ELEVATION & TYPICAL SECTIONS
6	PHASE CONSTRUCTION
7	STRINGER BEARINGS - L23 & L23'
8	JOINT REMOVAL & INSTALLATION
9 - 12	EXPANSION JOINT - L0
13 - 16	EXPANSION JOINT - L23 & L23'
17 - 20	EXPANSION JOINT - L0'
21	DRAINAGE SYSTEM AT PIERS 1 & 6

**SPECIAL NOTES**

- (6J) NON-EPOXY ADHESIVES
- (7S) STRUCTURAL ADHESIVES WITH EXTENDED CONTACT TIME
- SPECIAL NOTE FOR STRINGER BEARING REPLACEMENT
- SPECIAL NOTE FOR REPLACING EXPANSION JOINTS
- SPECIAL NOTE FOR SURFACE PREPARATION & PAINT APPLICATION
- SPECIAL NOTE FOR PAINT
- SPECIAL NOTE FOR WASTE MANAGEMENT
- SPECIAL NOTE FOR PIER DRAINAGE SYSTEM

**SPECIAL PROVISIONS**

- 4(08) WELDING STEEL BRIDGES

**SPECIFICATIONS**

- 2008 STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
- 2002 17th EDITION AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

**QUANTITIES**

BID ITEM CODE	24429EC	24430EC	24431EC
	REMOVE & REPLACE STRINGER BEARINGS	REMOVE & REPLACE FINGER EXPANSION JOINT	DRAINAGE SYSTEM AT PIERS 1 & 6
	EACH	EACH	EACH
LOCATION			
L0		1	1
L23	12	1	
L23'	12	1	
L0'		1	1
<b>BRIDGE TOTAL</b>	24	4	2

FILE NAME: G:\P\ENTRAN\LOCAL\FARMEA\MS08149\523792\_003.DGN

USER: Ifgrmcc  
DATE PLOTTED: November 17, 2011

E-SHEET NAME:

MicroStation v8.11.7.180



DATE: NOVEMBER 18, 2011  
FOR SHEETS: 3 THROUGH 21

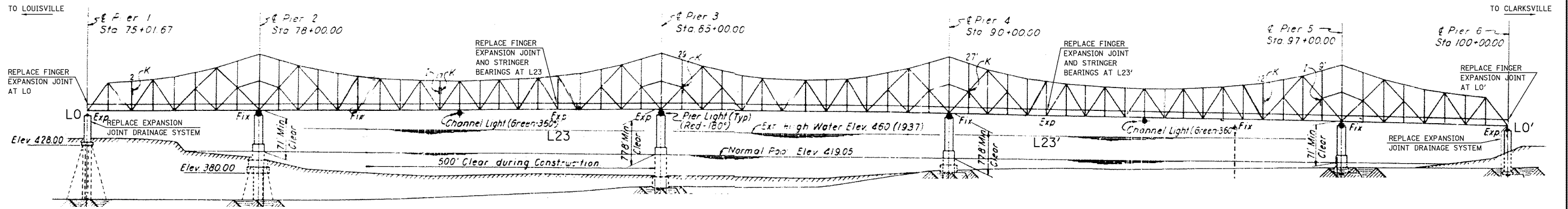
ITEM NUMBER

5-801.00

REVISION		DATE
DATE: NOVEMBER 2011	CHECKED BY	
DESIGNED BY: T. HUNLEY	S. KING	
DETAILED BY: A. FARMER	T. HUNLEY	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-65</b>	CROSSING <b>OHIO RIVER</b>	
<b>KENNEDY BRIDGE TITLE &amp; INDEX</b>		
PREPARED BY		SHEET NO.
		<b>3</b>
		DRAWING NO.
		<b>23792</b>

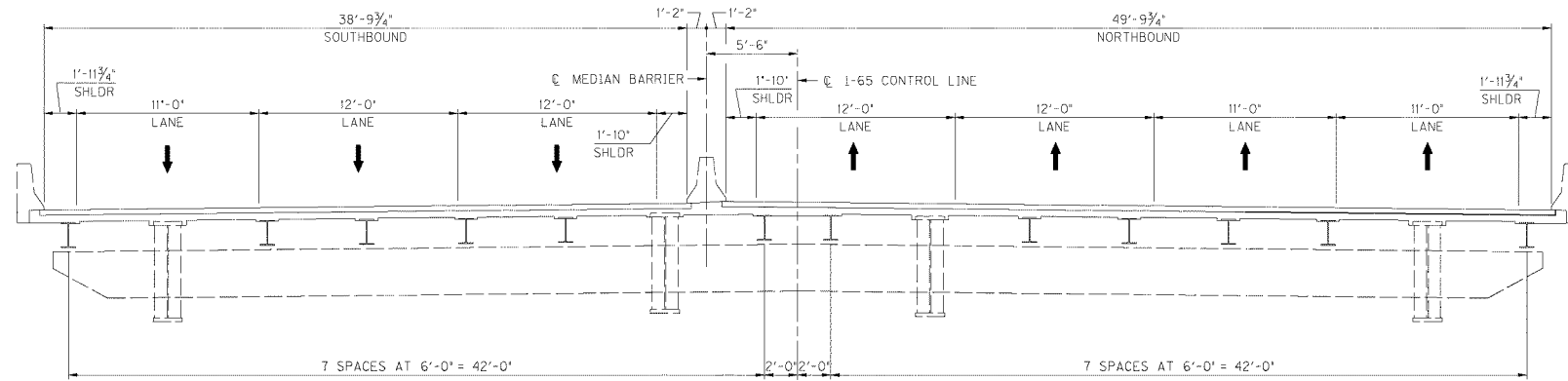






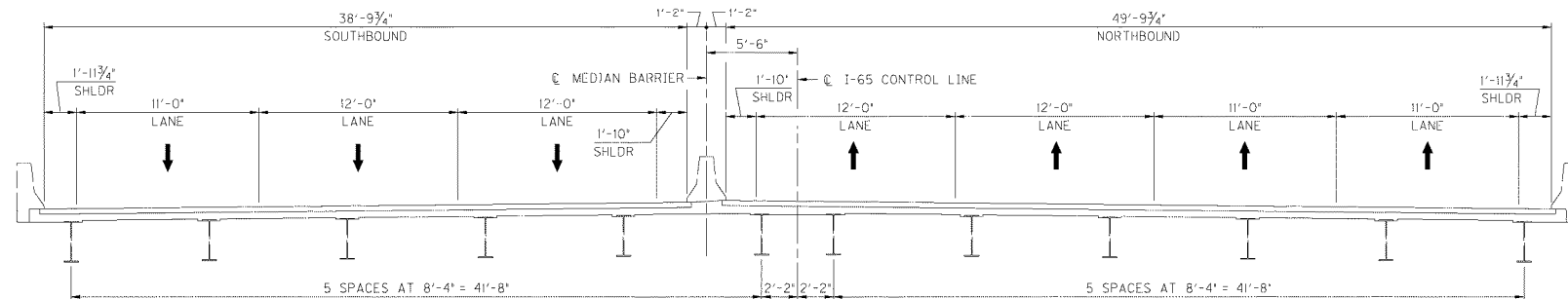
**ELEVATION**

(TAKEN FROM DRAWING NO. 14744)



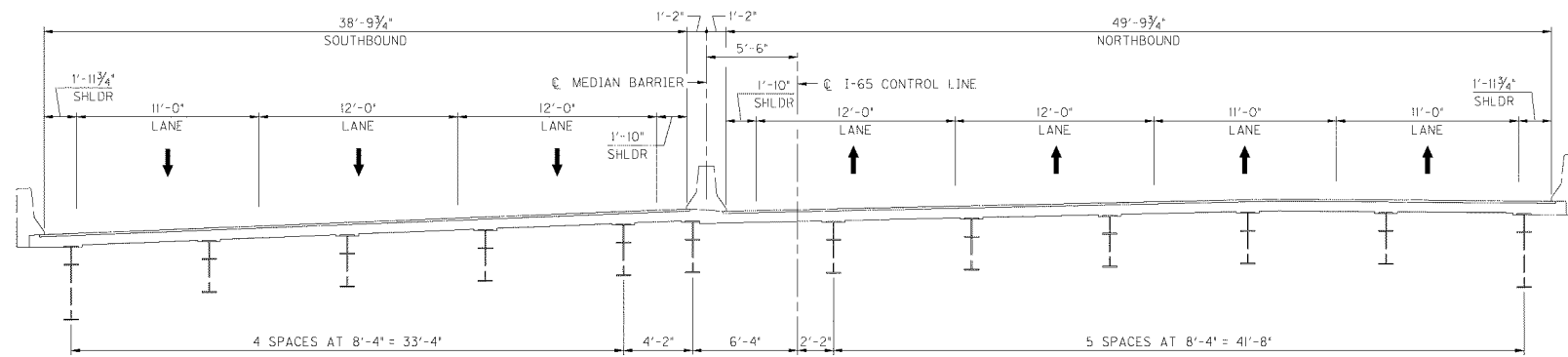
**DECK SECTION AT L0'**

(LOOKING AHEAD, INDIANA APPROACH SPAN)



**TYPICAL DECK SECTION**

(LOOKING AHEAD, TRUSS SPANS)



**DECK SECTION AT L0'**

(LOOKING AHEAD, KENTUCKY APPROACH SPAN)

FILE NAME: G:\P\ENTRAN\LOCAL\FARMEADMS08749\S23792\_005.DGN

USER: Tformo  
DATE PLOTTED: November 17, 2011

E-SHEET NAME:

MicroStation v8.11.7.180

REVISION		DATE
DATE: NOVEMBER 2011	CHECKED BY	
DESIGNED BY: T. HUNLEY	S. KING	
DETAILED BY: E. TRIMBLE	T. HUNLEY	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE <b>I-65</b>	CROSSING <b>OHIO RIVER</b>	
<b>ELEVATION &amp; TYPICAL SECTIONS</b>		
ITEM NUMBER	PREPARED BY	SHEET NO.
<b>5-801.00</b>	<b>ENTRAN</b>	<b>5</b>
		DRAWING NO. <b>23792</b>



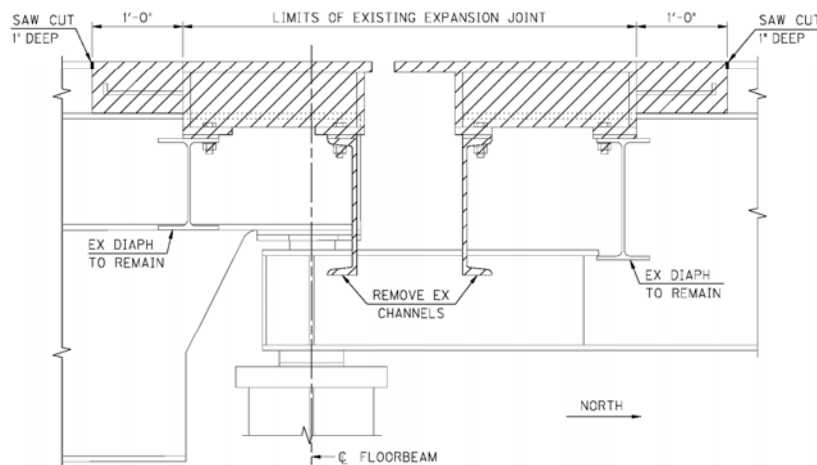


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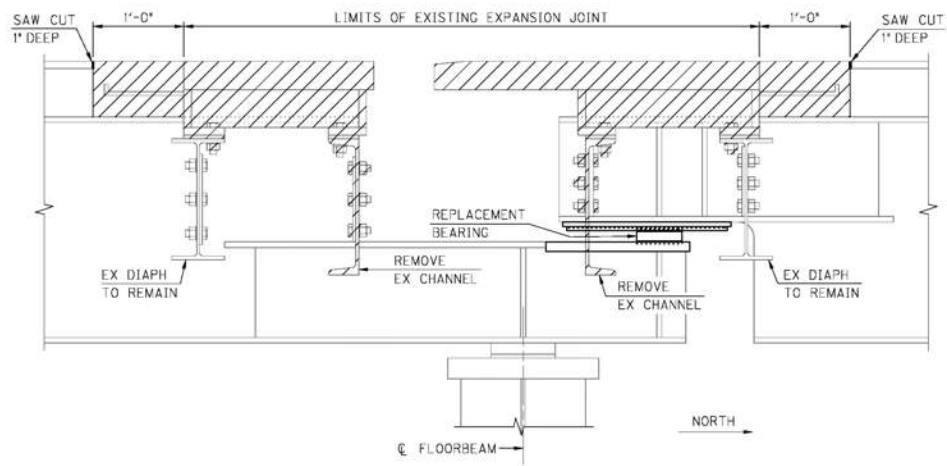
USER: 11r1mbe  
DATE PLOTTED: November 17, 2011

E-SHEET NAME:

MicroStation v8.11.7.180

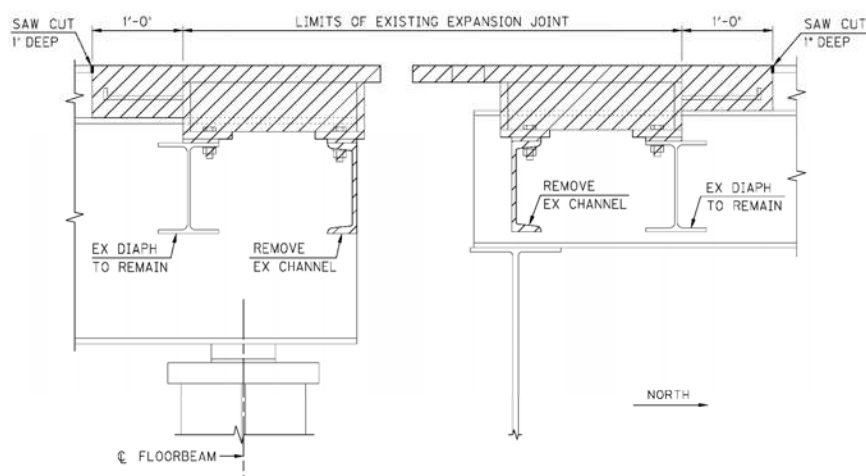


**REMOVAL AT L0**



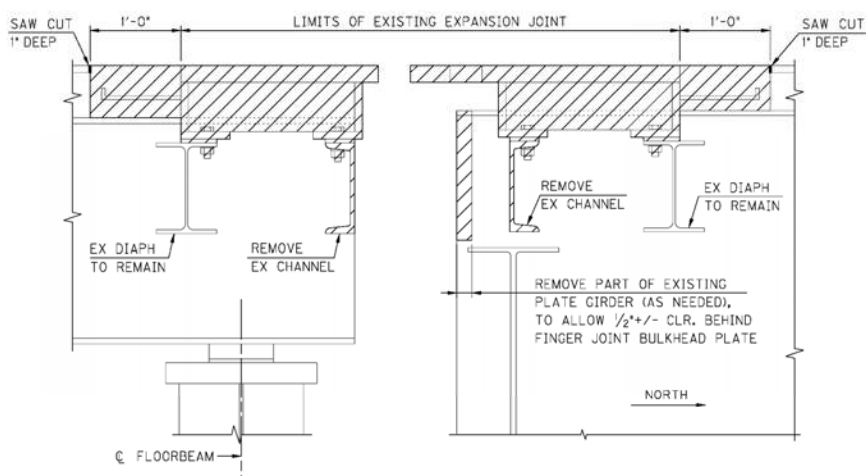
**REMOVAL AT L23 & L23'**

L23 SHOWN, L23' OPPOSITE HAND



**REMOVAL AT L0''**

SHOWING STRINGER ON INDIANA SIDE

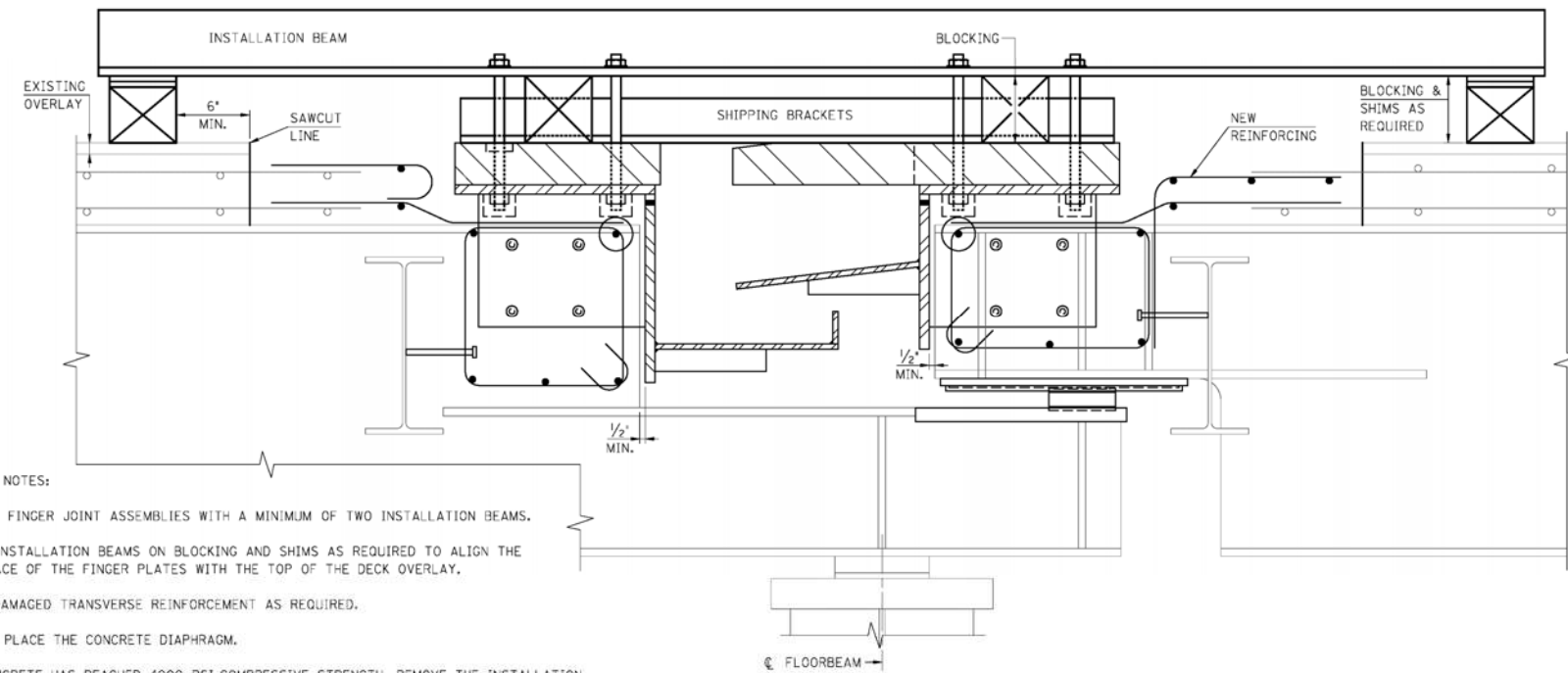


**REMOVAL AT L0''**

SHOWING PLATE GIRDER ON INDIANA SIDE

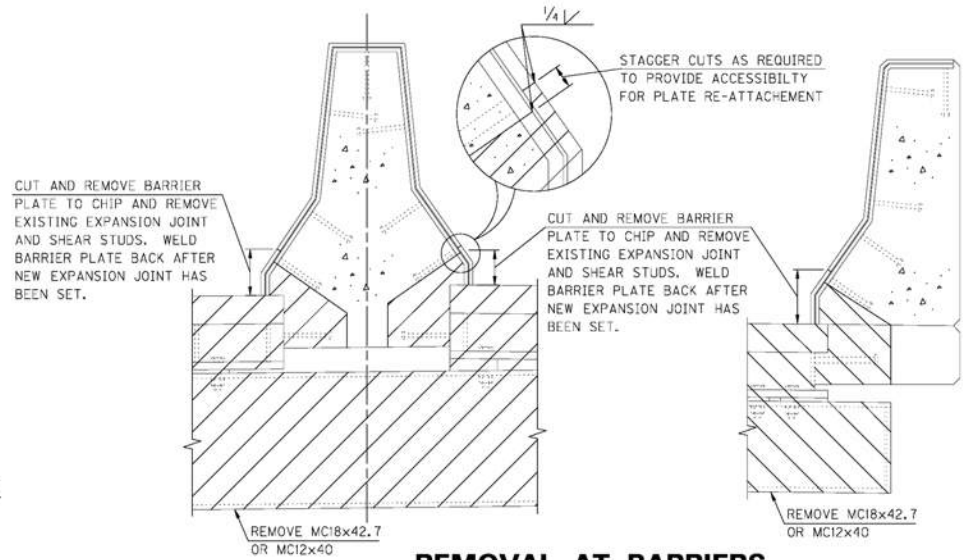
**INSTALLATION NOTES:**

1. TRANSPORT FINGER JOINT ASSEMBLIES WITH A MINIMUM OF TWO INSTALLATION BEAMS.
2. SUPPORT INSTALLATION BEAMS ON BLOCKING AND SHIMS AS REQUIRED TO ALIGN THE TOP SURFACE OF THE FINGER PLATES WITH THE TOP OF THE DECK OVERLAY.
3. REPLACE DAMAGED TRANSVERSE REINFORCEMENT AS REQUIRED.
4. FORM AND PLACE THE CONCRETE DIAPHRAGM.
5. AFTER CONCRETE HAS REACHED 4000 PSI COMPRESSIVE STRENGTH, REMOVE THE INSTALLATION BEAMS AND SHIPPING BRACKETS, THEN REPLACE RODS WITH CONNECTION BOLTS.
6. PERFORM FINGER PLATE GROOVE WELD AS SHOWN IN THE PLANS.



**JOINT INSTALLATION DIAGRAM**

L23 SHOWN PRIOR TO PLACING CONCRETE  
OTHER LOCATIONS SIMILAR



**REMOVAL AT BARRIERS**

**LEGEND**

LIMITS OF REMOVAL

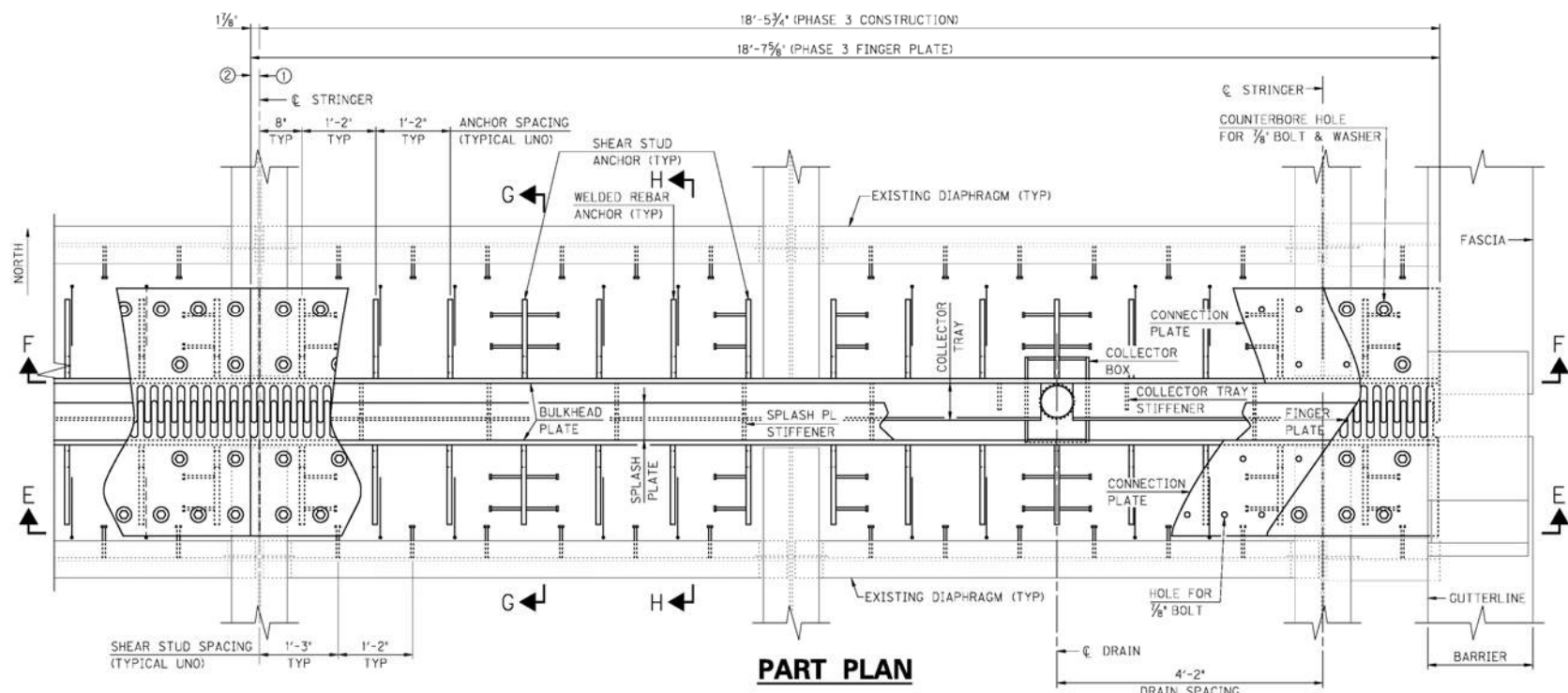
REVISION		DATE
DATE: NOVEMBER 2011	CHECKED BY	
DESIGNED BY: T. HUNLEY	S. KING	
DETAILED BY: A. FARMER	T. HUNLEY	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE <b>I-65</b>	CROSSING <b>OHIO RIVER</b>	
<b>JOINT REMOVAL &amp; INSTALLATION</b>		
ITEM NUMBER	PREPARED BY	SHEET NO.
<b>5-801.00</b>		<b>8</b>
		DRAWING NO. <b>23792</b>



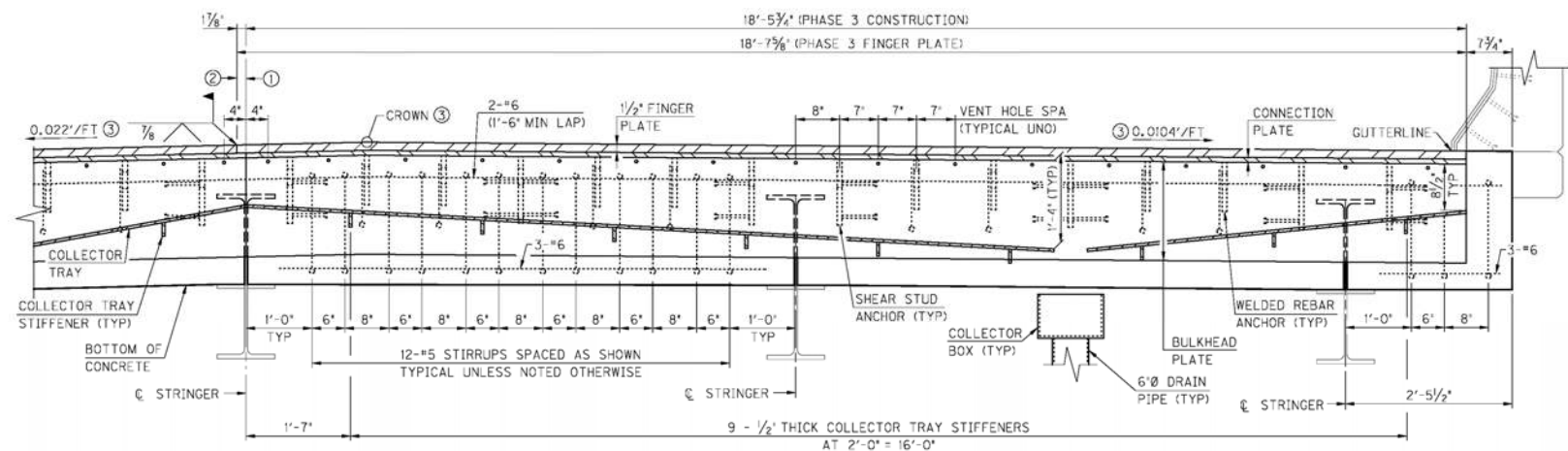




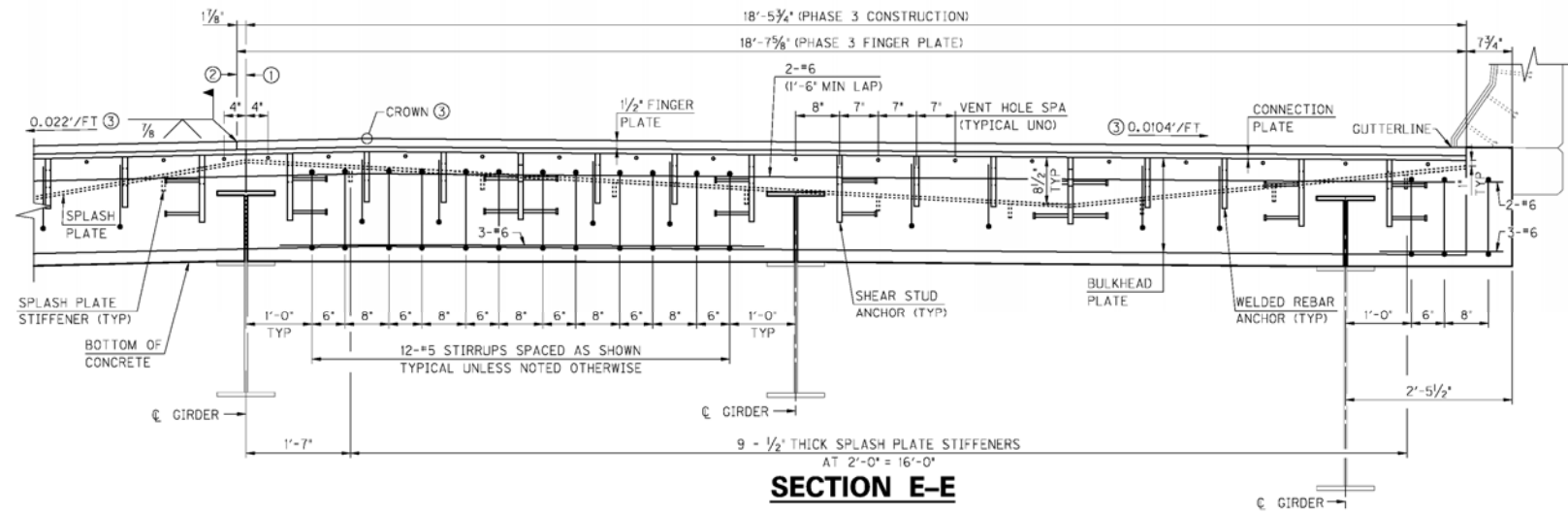
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 USER: 11r\mbe  
 DATE PLOTTED: November 17, 2011  
 E-SHEET NAME:  
 MicroStation v8.11.7.180



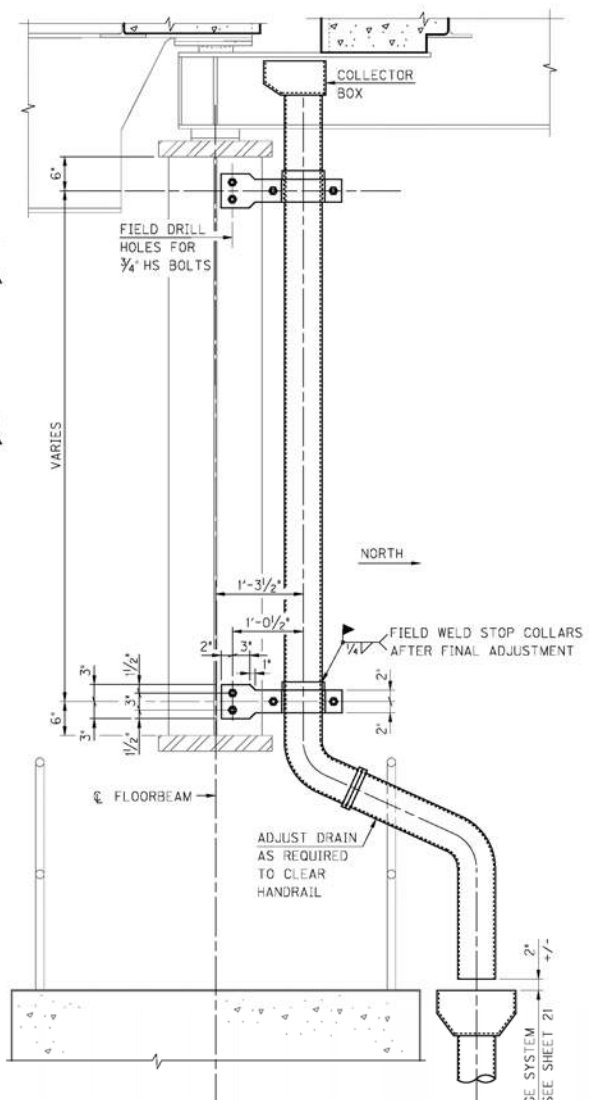
**PART PLAN**



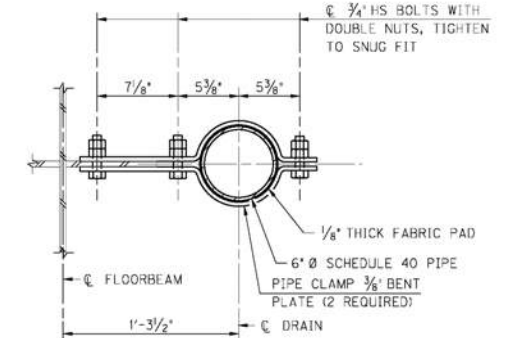
**SECTION F-F**



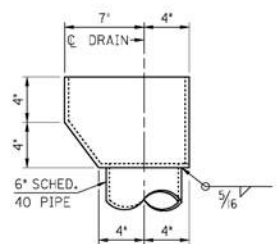
**SECTION E-E**



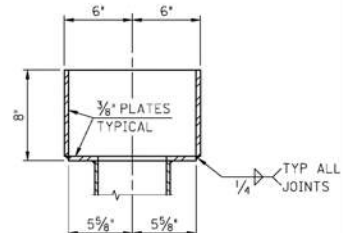
**SECTION AT PIER 1**



**PIPE SUPPORT SECTION**



**COLLECTOR BOX DETAIL**

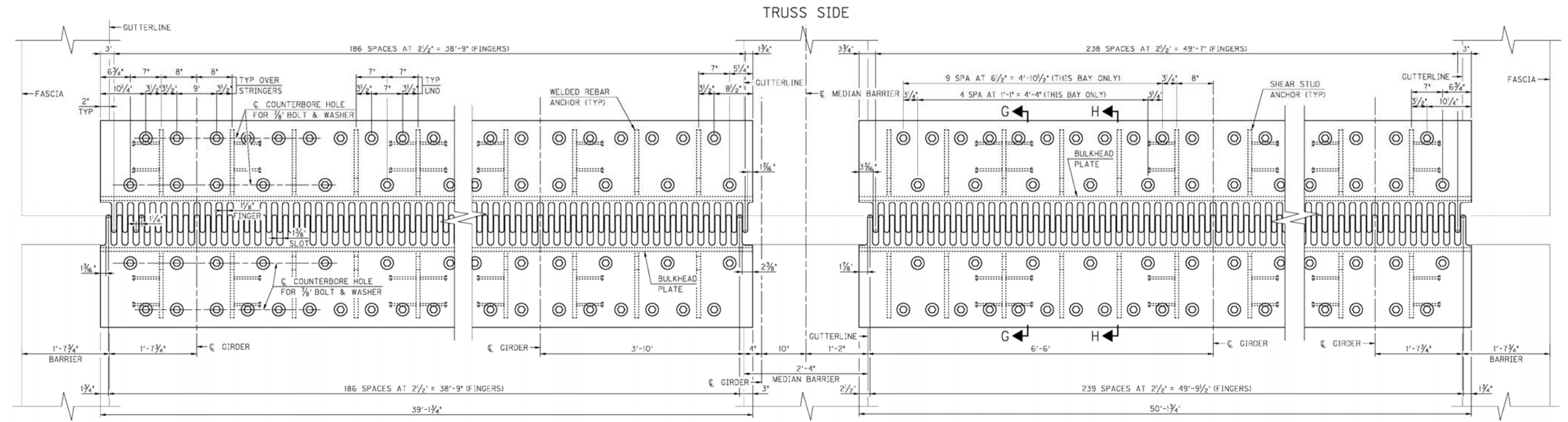


**SECTION THRU COLLECTOR BOX**

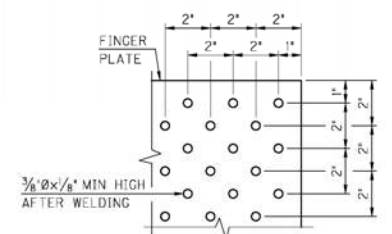
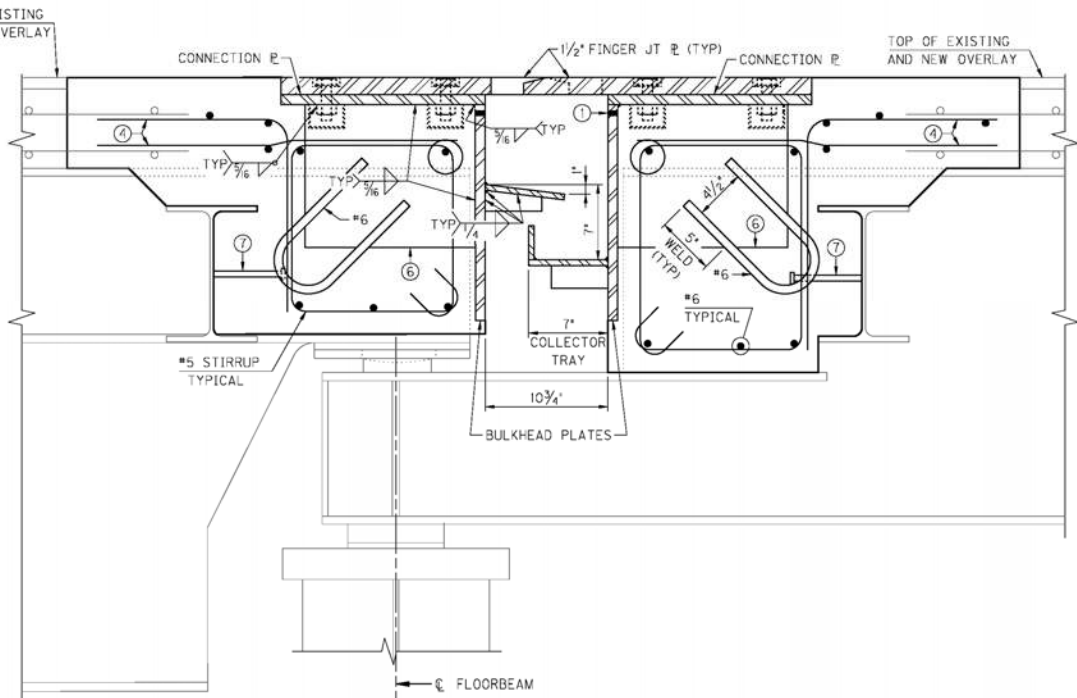
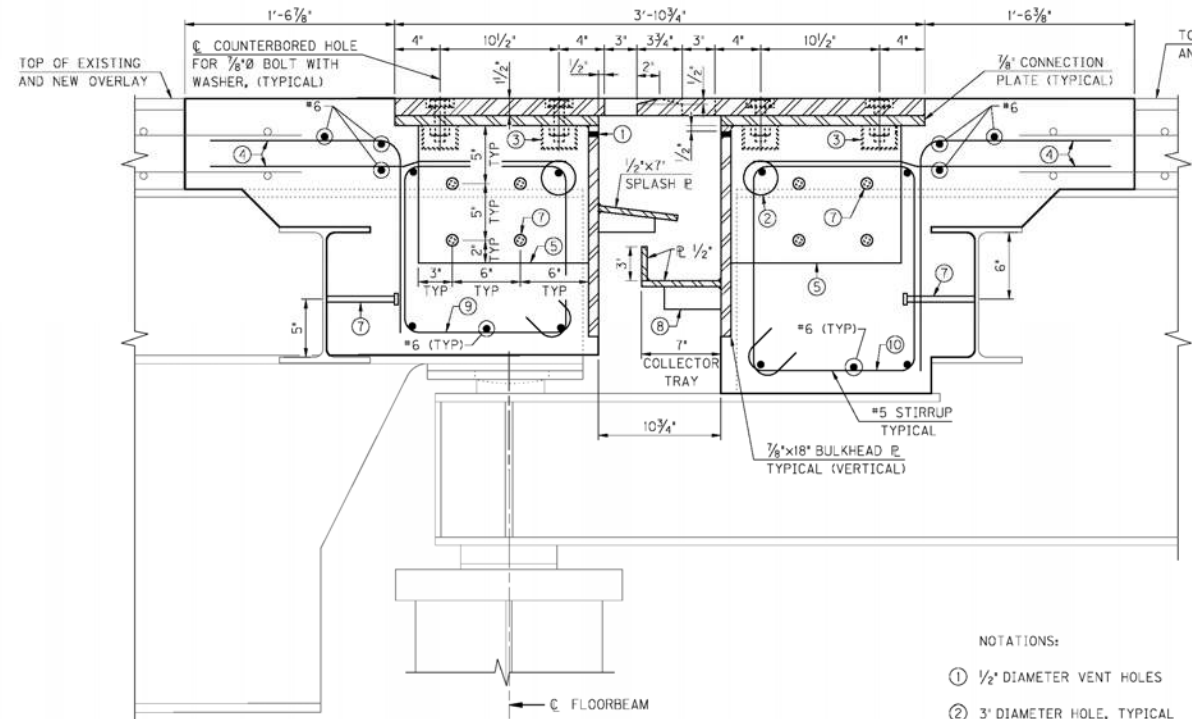
- NOTATIONS:
- ① JOINT LINE FOR NEW 7/8\"/>
  - ② FIELD WELD LINE FOR NEW FINGER PLATE, SEE FINGER PLATE WELD DETAIL SHEET 10
  - ③ FIELD SURVEY CROSS-SLOPES AND LOCATION OF CROWN POINT BEFORE DEVELOPING SHOP DRAWINGS
- UNO - DENOTES UNLESS NOTED OTHERWISE

REVISION		DATE
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b> COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-65</b>	CROSSING <b>OHIO RIVER</b>	
<b>EXPANSION JOINT - L0</b>		
ITEM NUMBER <b>5-801.00</b>		PREPARED BY <b>ENTRAN</b>
SHEET NO. <b>11</b>		DRAWING NO. <b>23792</b>

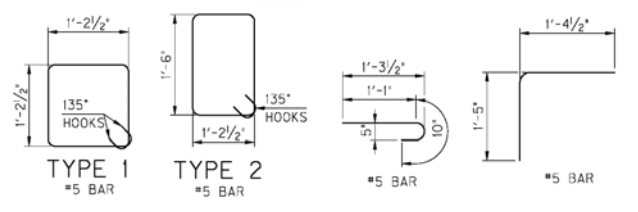
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 USER: 11r\mbe  
 DATE PLOTTED: November 17, 2011  
 E-SHEET NAME:  
 MicroStation v8.11.7.180



**DETAIL PLAN - FINGER PLATES**



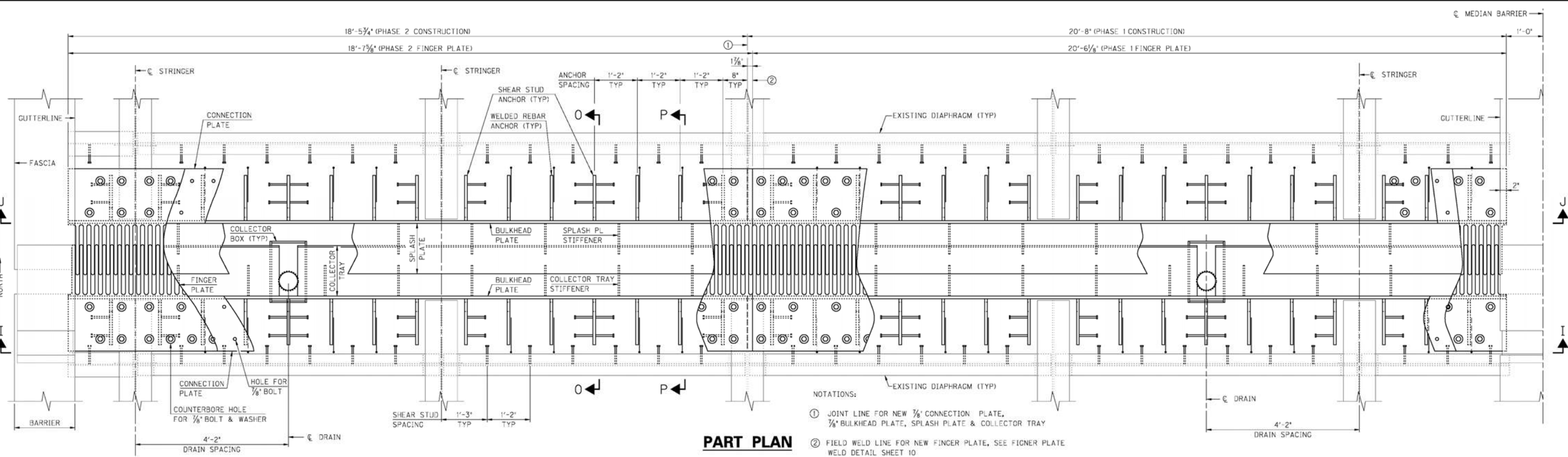
- NOTATIONS:
- 1/2" DIAMETER VENT HOLES
  - 3" DIAMETER HOLE, TYPICAL
  - PROVIDE PROTECTIVE LEAKPROOF PVC CAPS, ATTACH TO STEEL WITH AN APPROVED ADHESIVE, (TYPICAL)
  - #5 BARS, SPACE WITH EXISTING LONGITUDINAL REINFORCEMENT (TYPICAL)
  - 7/8"x12"x1'-3" SHEAR STUD ANCHOR PLATE, TYPICAL
  - 7/8"x9"x1'-3" WELDED REBAR ANCHOR PLATE, TYPICAL
  - 1/2"x6" x6" SHEAR STUDS (TYPICAL)
  - 1/2" STIFFENER PLATE (TYPICAL)
  - TYPE 1 STIRRUP
  - TYPE 2 STIRRUP



NOTES:  
 FINGER JOINT OPENING DIMENSIONS ARE AT 60° F.  
 IF THE EXPANSION DAM IS INSTALLED AT TEMPERATURE OTHER THAN 60° F, THE JOINT OPENING (10 3/4") SHALL BE REDUCED OR INCREASED 3/16" FOR EACH 10° ABOVE OR BELOW 60° F, RESPECTIVELY.

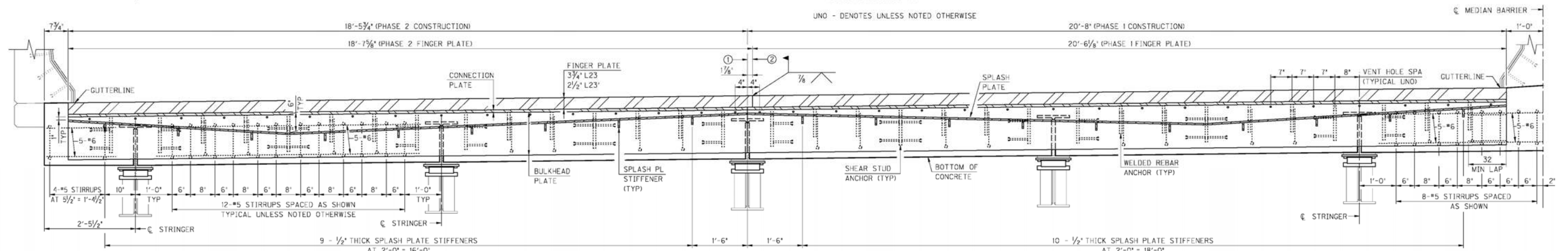
REVISION		DATE
DATE: NOVEMBER 2011	CHECKED BY: S. KING	
DESIGNED BY: T. HUNLEY	DETAILED BY: S. PARSONS	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE I-65	CROSSING OHIO RIVER	
<b>EXPANSION JOINT - L0</b>		
ITEM NUMBER		SHEET NO.
5-801.00		12
PREPARED BY: ENTRAN		DRAWING NO. 23792

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 DATE PLOTTED: November 17, 2011  
 E-SHEET NAME:  
 MicroStation v8.11.7.180

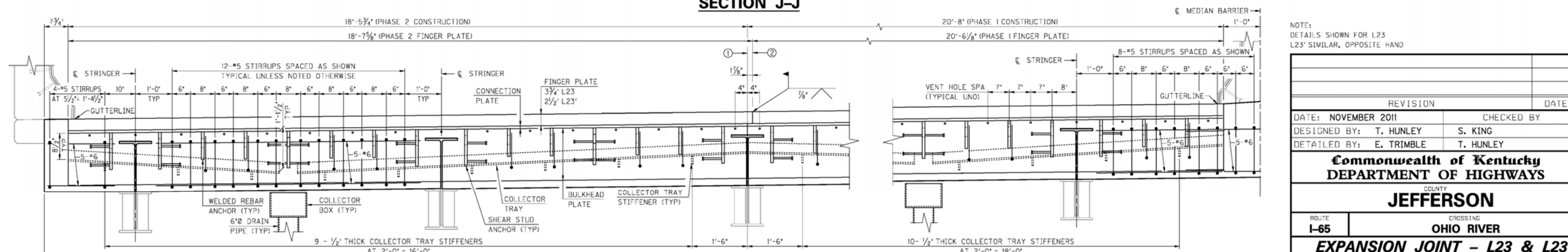


**PART PLAN**

NOTATIONS:  
 ① JOINT LINE FOR NEW 3/8\"/>



**SECTION J-J**



**SECTION I-I**

NOTE:  
 DETAILS SHOWN FOR L23  
 L23' SIMILAR, OPPOSITE HAND

REVISION	DATE

DATE: NOVEMBER 2011  
 DESIGNED BY: T. HUNLEY  
 CHECKED BY: S. KING  
 DETAILED BY: E. TRIMBLE

**Commonwealth of Kentucky**  
**DEPARTMENT OF HIGHWAYS**  
 COUNTY  
**JEFFERSON**  
 ROUTE **I-65** CROSSING **OHIO RIVER**  
**EXPANSION JOINT - L23 & L23'**

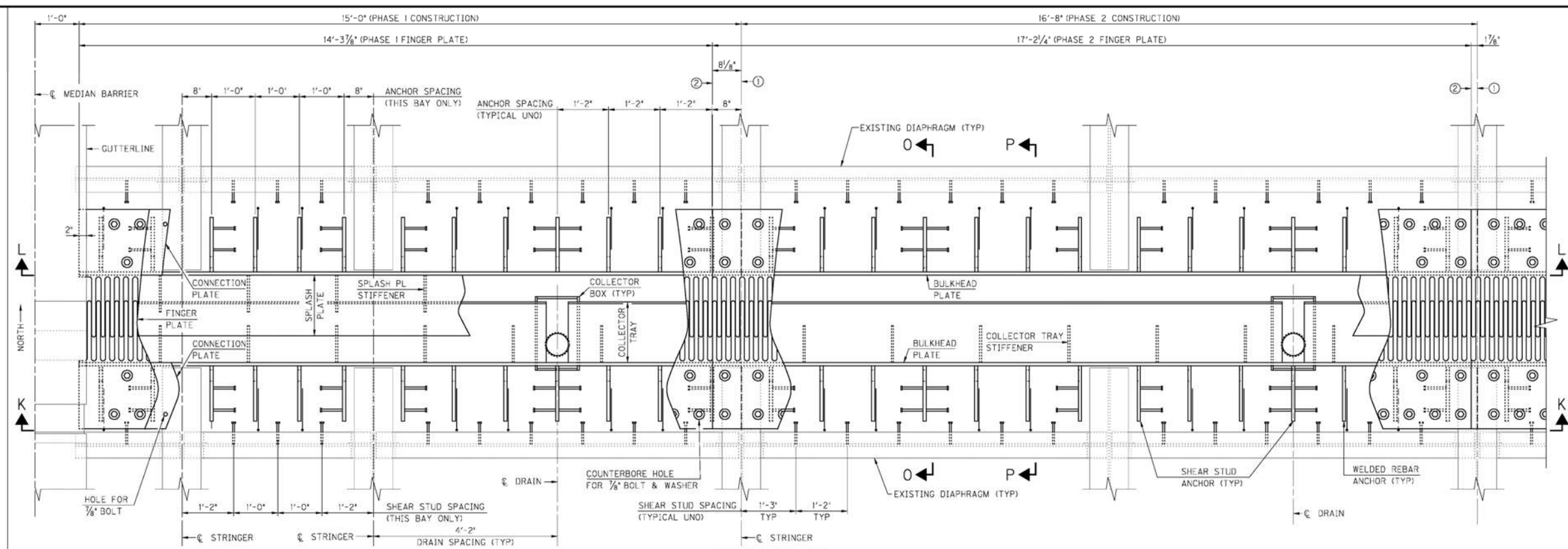
ITEM NUMBER  
**5-801.00**

PREPARED BY  
  
 SHEET NO.  
**13**  
 DRAWING NO.  
**23792**

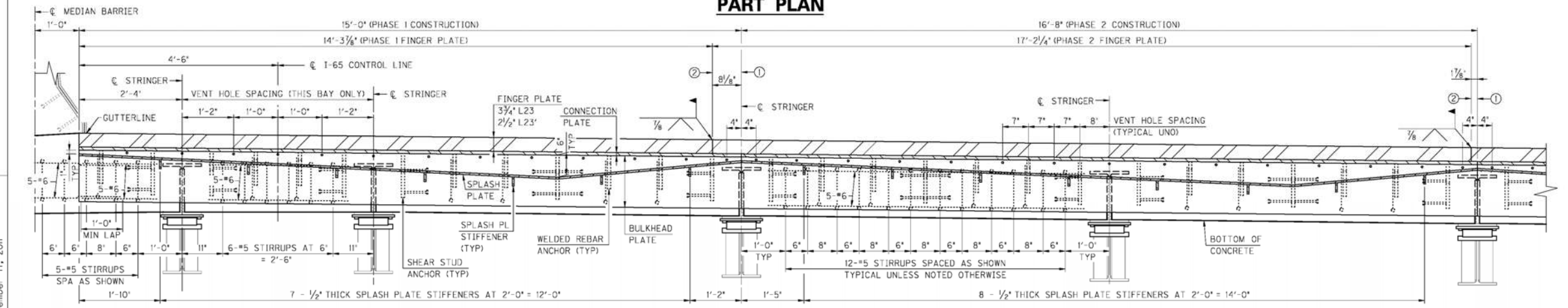


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 USER: 11r\mbc  
 DATE PLOTTED: November 17, 2011  
 E-SHEET NAME: MicroStation v8.11.7.180

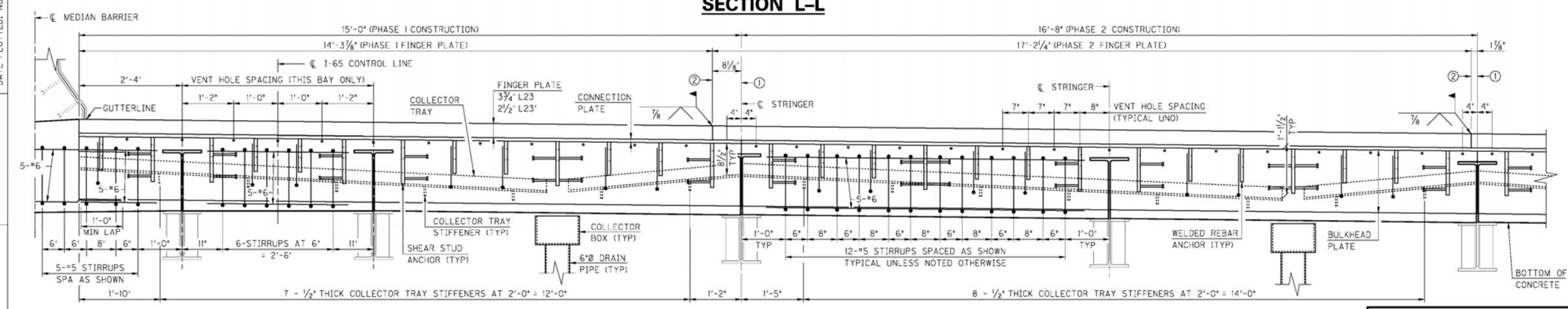
- NOTATIONS:
- ① JOINT LINE FOR NEW 3/8" CONNECTION PLATE, 3/8" BULKHEAD PLATE, SPLASH PLATE & COLLECTOR TRAY
  - ② FIELD WELD LINE FOR NEW FINGER PLATE, SEE FINGER PLATE WELD DETAIL SHEET 10
- UNO - DENOTES UNLESS NOTED OTHERWISE



**PART PLAN**



**SECTION L-L**



**SECTION K-K**

NOTE:  
 DETAILS SHOWN FOR L23  
 L23' SIMILAR, OPPOSITE HAND

REVISION	DATE

DATE: NOVEMBER 2011  
 DESIGNED BY: T. HUNLEY  
 CHECKED BY: S. KING  
 DETAILED BY: E. TRIMBLE

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

COUNTY  
**JEFFERSON**

ROUTE **I-65** CROSSING **OHIO RIVER**

**EXPANSION JOINT - L23 & L23'**

ITEM NUMBER
<b>5-801.00</b>

PREPARED BY

ENTRAN

SHEET NO. **14**  
 DRAWING NO. **23792**





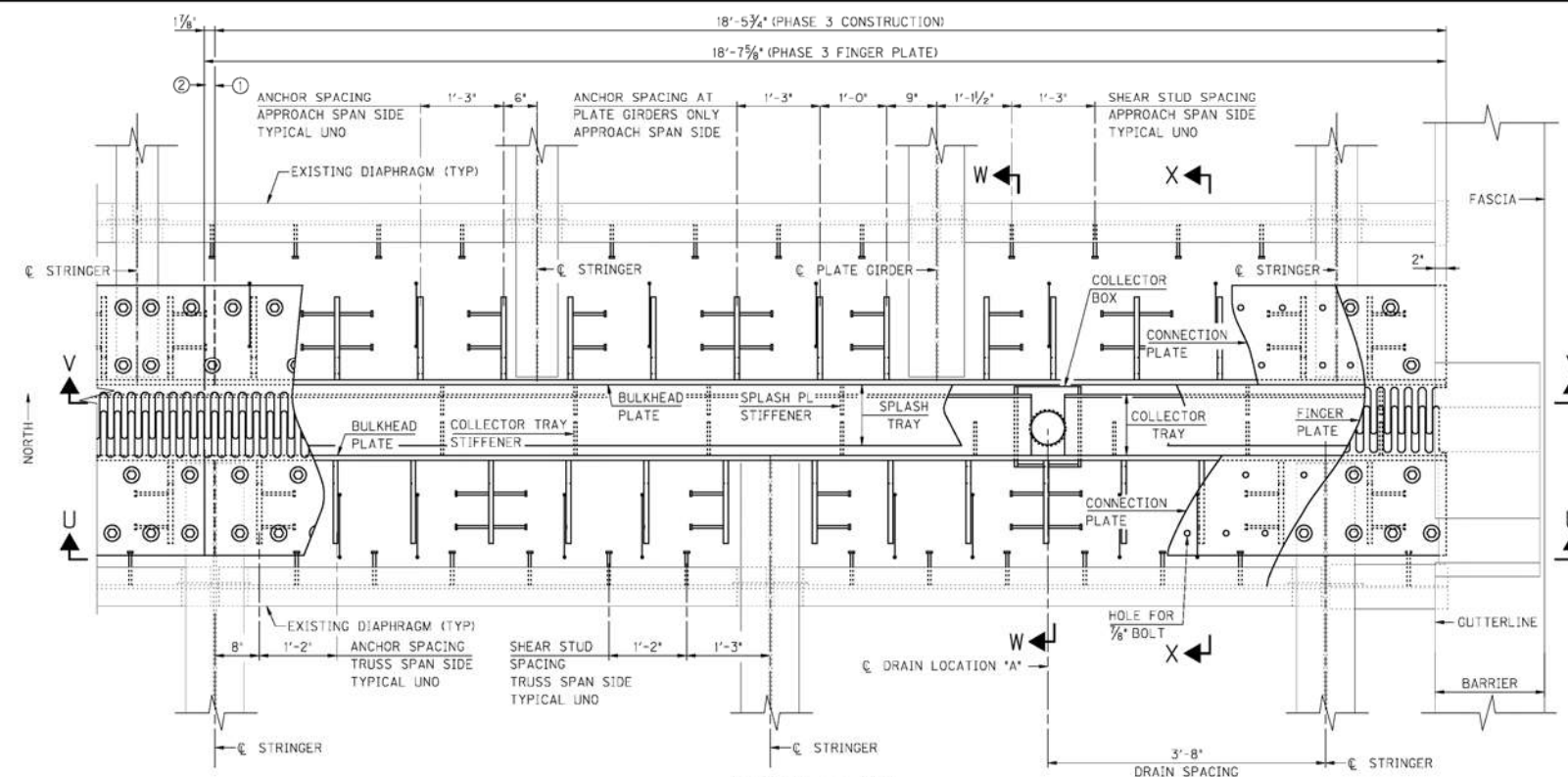




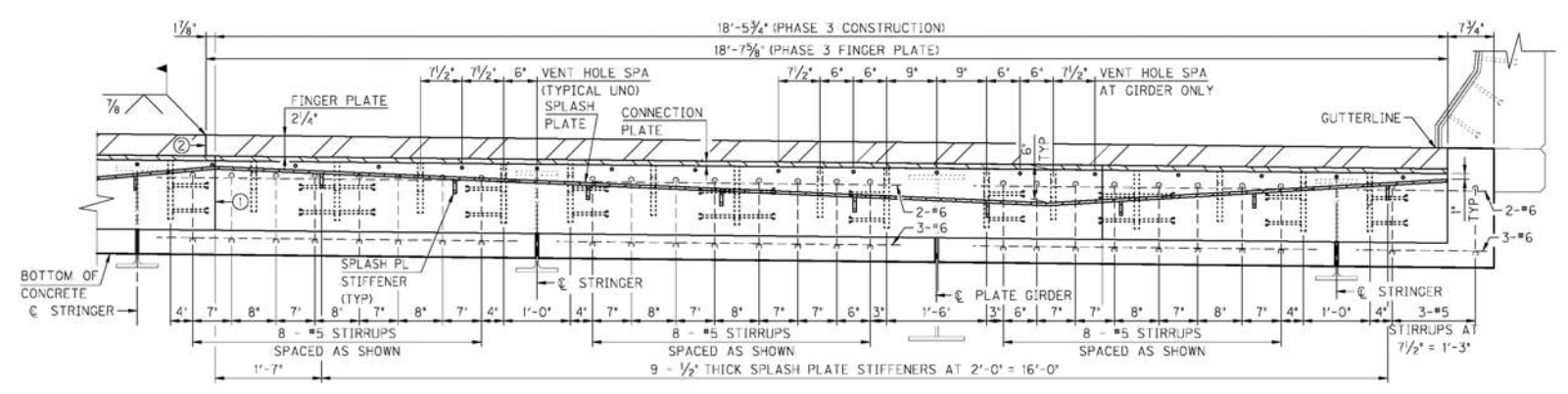




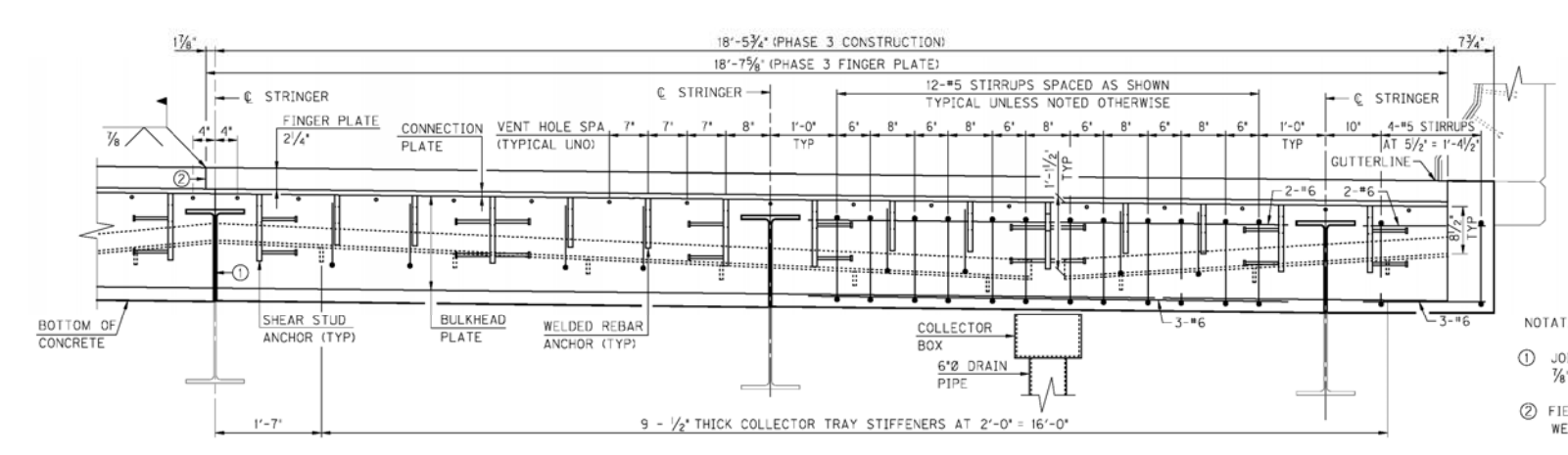
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 DATE PLOTTED: November 17, 2011  
 E-SHEET NAME:  
 MicroStation v8.11.7.180



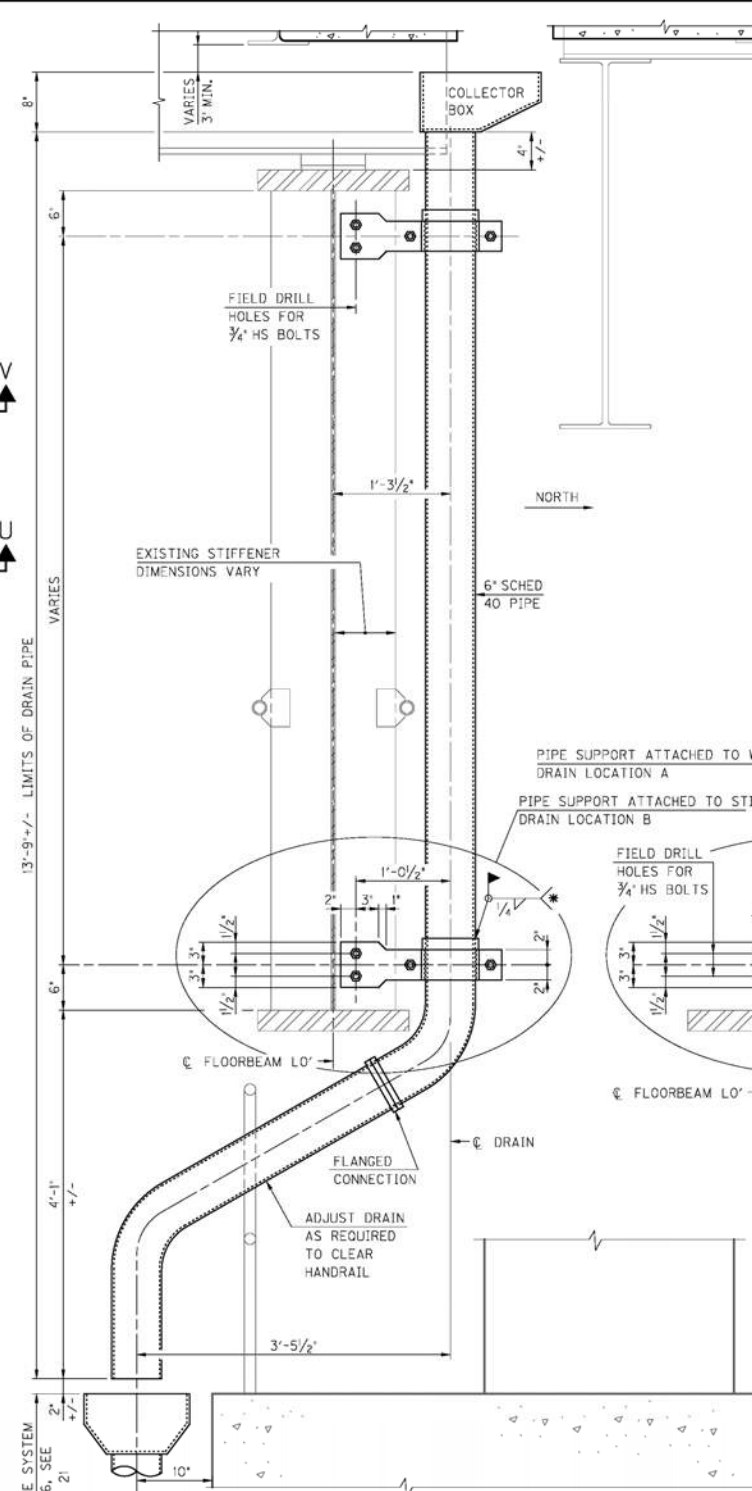
**PART PLAN**



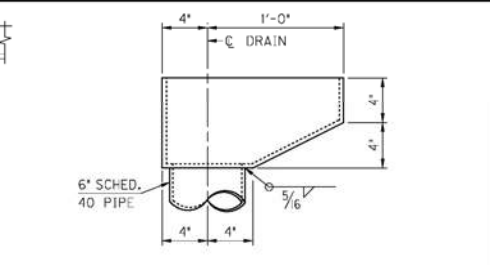
**SECTION V-V**



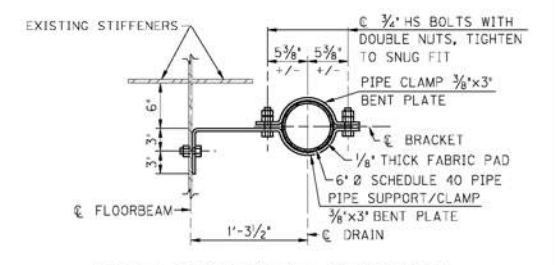
**SECTION U-U**



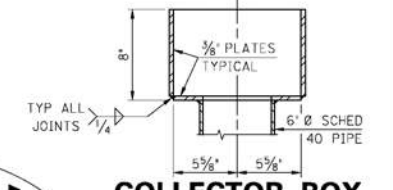
**SECTION AT PIER 6**



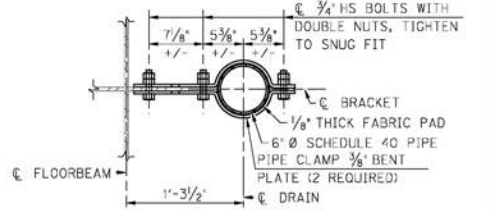
**COLLECTOR BOX DETAIL**



**PIPE SUPPORT SECTION AT FLOOR BEAM WEB**



**COLLECTOR BOX SECTION**



**PIPE SUPPORT SECTION AT STIFFENERS**

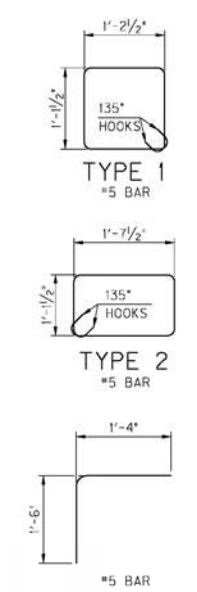
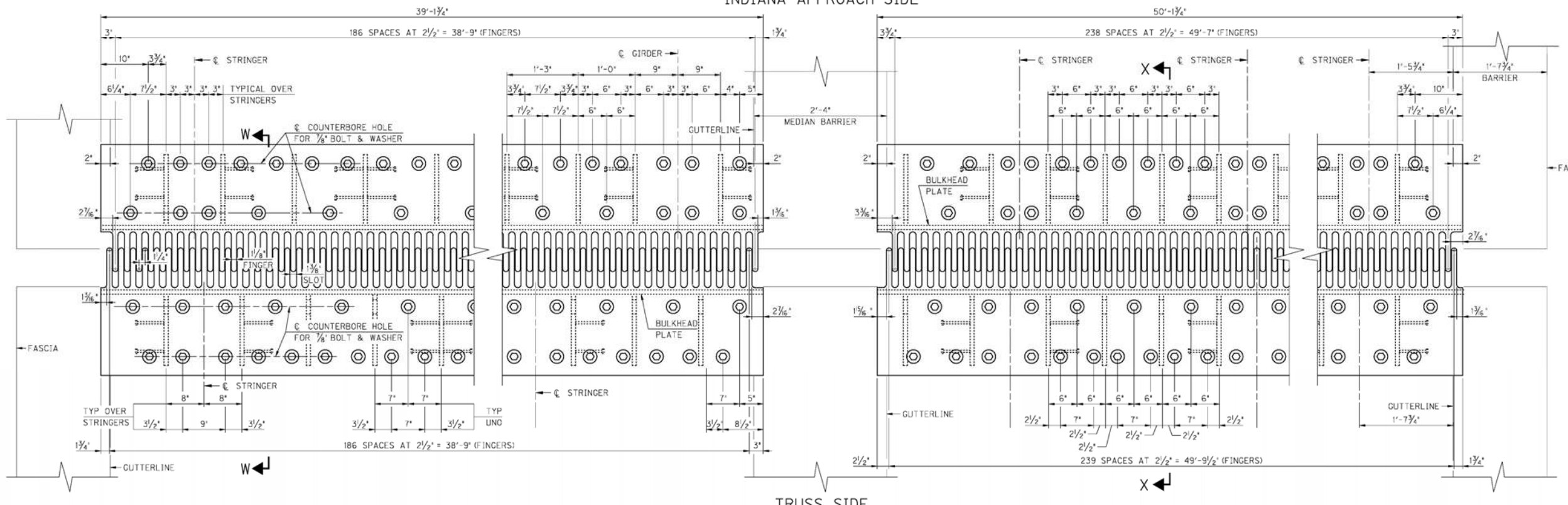
- NOTATIONS:
- ① JOINT LINE FOR NEW 3/8" CONNECTION PLATE, 3/8" BULKHEAD PLATE, SPLASH PLATE & COLLECTOR TRAY
  - ② FIELD WELD LINE FOR NEW FINGER PLATE, SEE FINGER WELD DETAIL, SHEET 14
- UNO - DENOTES UNLESS NOTED OTHERWISE

ITEM NUMBER	5-801.00
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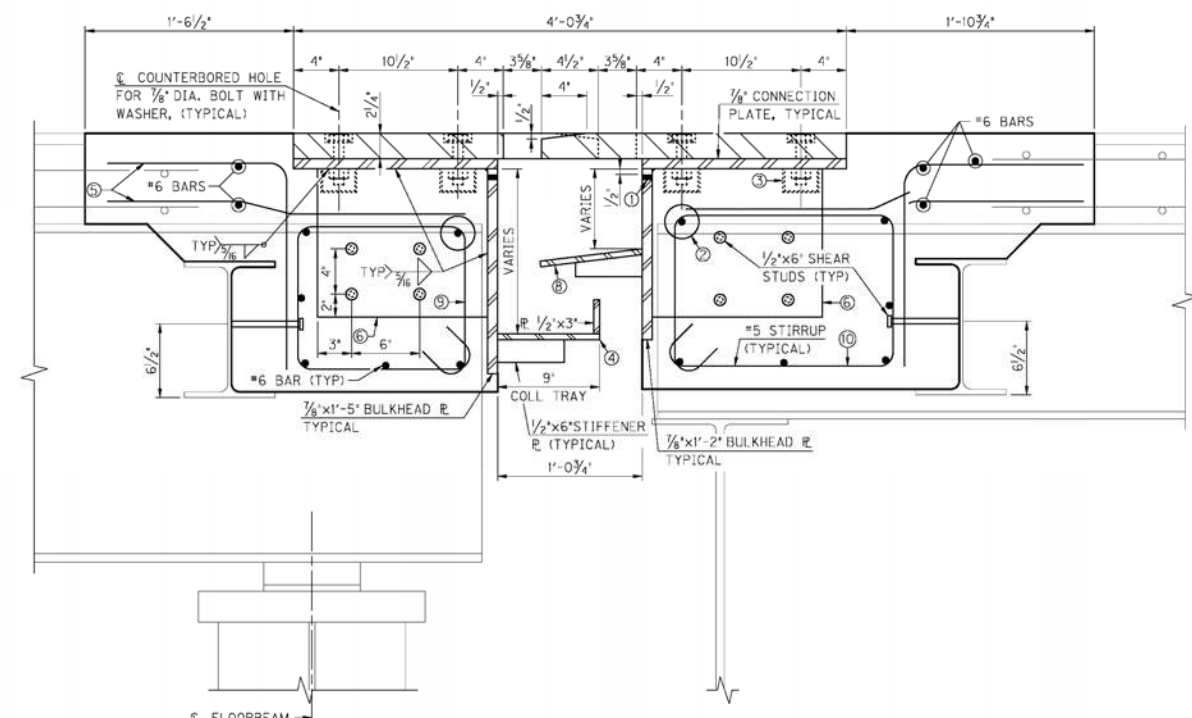
REVISION		DATE
DATE: NOVEMBER 2011	CHECKED BY: S. KING	
DESIGNED BY: T. HUNLEY	DETAILED BY: S. PARSONS	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE <b>I-65</b>	CROSSING <b>OHIO RIVER</b>	
<b>EXPANSION JOINT - L0'</b>		
PREPARED BY		SHEET NO.
<b>ENTRAN</b>		<b>19</b>
		DRAWING NO.
		<b>23792</b>



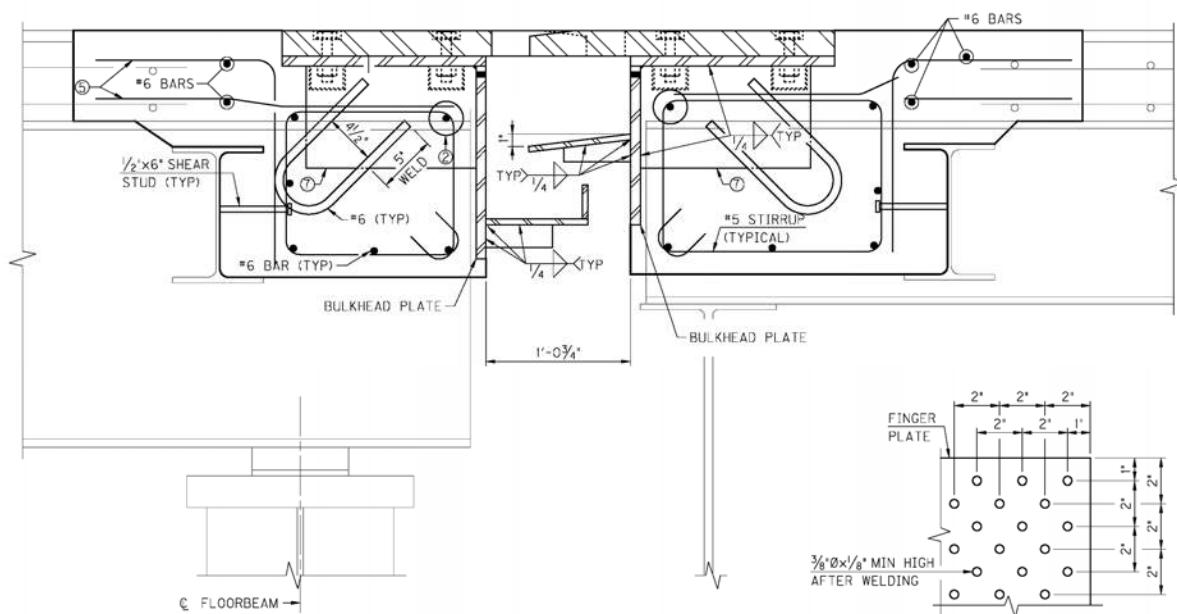
INDIANA APPROACH SIDE



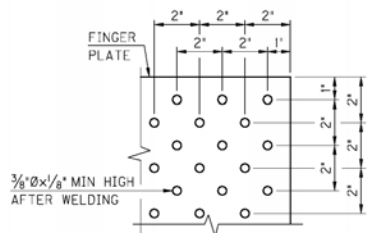
DETAIL PLAN - FINGER PLATES



SECTION W-W



SECTION X-X



ANTI-SKID PATTERN DETAIL

- NOTATIONS:
- ① 1/2" DIAMETER VENT HOLES
  - ② 3" DIAMETER HOLE, TYPICAL
  - ③ PROVIDE PROTECTIVE LEAKPROOF PVC CAPS, ATTACH TO STEEL WITH AN APPROVED ADHESIVE, (TYPICAL)
  - ④ 1/2" (COLLECTOR TRAY)
  - ⑤ #5 BARS, SPACE WITH EXISTING LONGITUDINAL REINFORCEMENT (TYPICAL)
  - ⑥ 7/8"x12"x15" SHEAR STUD ANCHOR PLATE, TYPICAL
  - ⑦ 7/8"x9"x15" WELDED REBAR ANCHOR PLATE, TYPICAL
  - ⑧ 1/2"x9" SPLASH PLATE
  - ⑨ TYPE 1 STIRRUP
  - ⑩ TYPE 2 STIRRUP

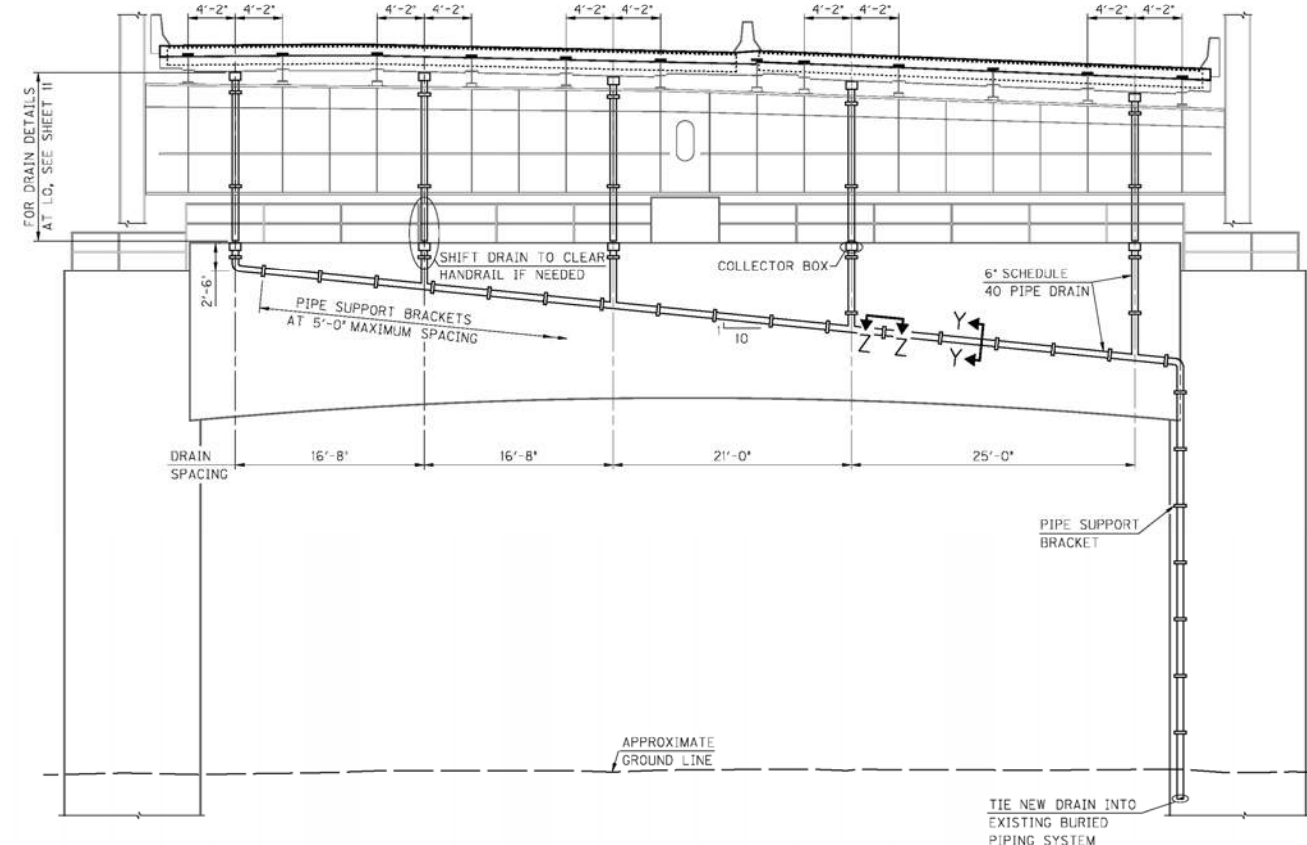
NOTES:  
 SECTIONS THRU APPROACH SPAN STRINGERS SHOWN. SEE SHEET 8 FOR PARTIAL REMOVAL OF APPROACH SPAN PLATE GIRDERS TO CLEAR NEW BULKHEAD PLATES.  
 FINGER JOINT OPENING DIMENSIONS ARE AT 60°F. IF THE EXPANSION DAM IS INSTALLED AT TEMPERATURE OTHER THAN 60°F, THE JOINT OPENING (1'-0 3/4") SHALL BE REDUCED OR INCREASED (1/2") FOR EACH 10° ABOVE OR BELOW 60°F, RESPECTIVELY.

REVISION		DATE
DATE: NOVEMBER 2011	CHECKED BY	
DESIGNED BY: T. HUNLEY	S. KING	
DETAILED BY: S. PARSONS	T. HUNLEY	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE <b>I-65</b>	CROSSING <b>OHIO RIVER</b>	
<b>EXPANSION JOINT - L0'</b>		
ITEM NUMBER		SHEET NO.
<b>5-801.00</b>		<b>20</b>
PREPARED BY		DRAWING NO.
<b>ENTRAN</b>		<b>23792</b>

FILE NAME: C:\P\ENTRAN\LOCAL\VFARMEAD\MS08749\523792\_020.DGN  
 USER: 11r\mbc  
 DATE PLOTTED: November 17, 2011  
 E-SHEET NAME:  
 MicroStation v8.11.7.180

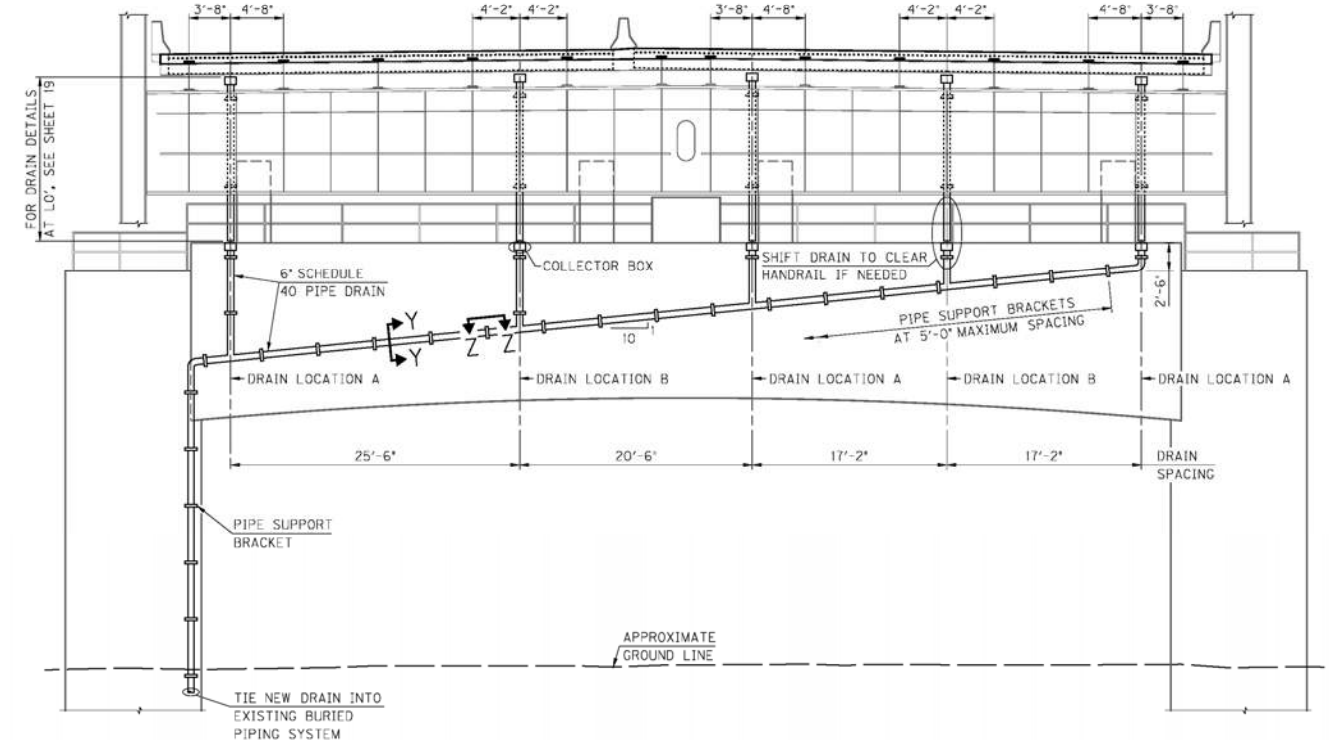
FILE NAME: C:\P\ENTRAN\LOCAL\VFARMEAD\MS08749\523792\_021.DGN  
 USER: Iforreo  
 DATE PLOTTED: November 17, 2011  
 E-SHEET NAME:  
 MicroStation v8.11.7.180

NOTE:  
 FOR DETAILS OF PIPES ATTACHED  
 TO THE FLOORBEAM, SEE SHEET 11.



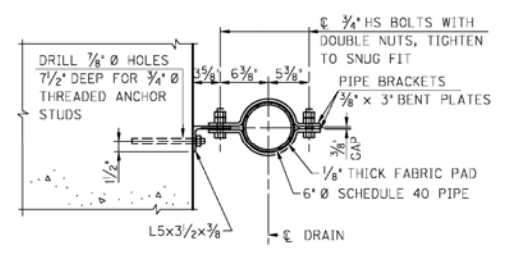
**PART ELEVATION - PIER 1**  
 LOOKING SOUTH AT LO

NOTE:  
 FOR DETAILS OF PIPES ATTACHED  
 TO THE FLOORBEAM, SEE SHEET 11.



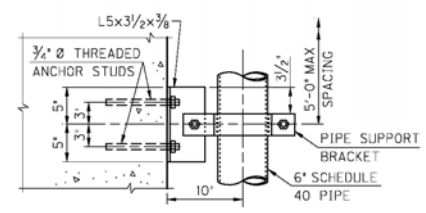
**PART ELEVATION - PIER 6**  
 LOOKING NORTH AT LO'

NOTES:  
 REMOVE EXISTING DRAIN PIPE MOUNTED ON PIER 1 AND 6.  
 DRAIN PIPES SHALL BE 6" SCHEDULE 40 PIPE.  
 ALL PIPE SUPPORT BRACKETS AND CLAMPS SHALL BE FABRICATED USING NEW COMMERCIAL GRADE STEEL, SUITABLE FOR WELDING.  
 PIPE, SUPPORT BRACKETS AND CLAMPS SHALL BE PAINTED TO MATCH THE EXISTING BRIDGE.

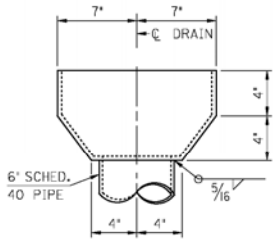


**SECTION Y-Y**

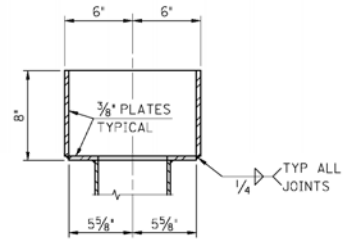
NOTE:  
 ATTACH SHORT LEG OF ANGLE  
 TO CONCRETE, TYPICAL.



**SECTION Z-Z**



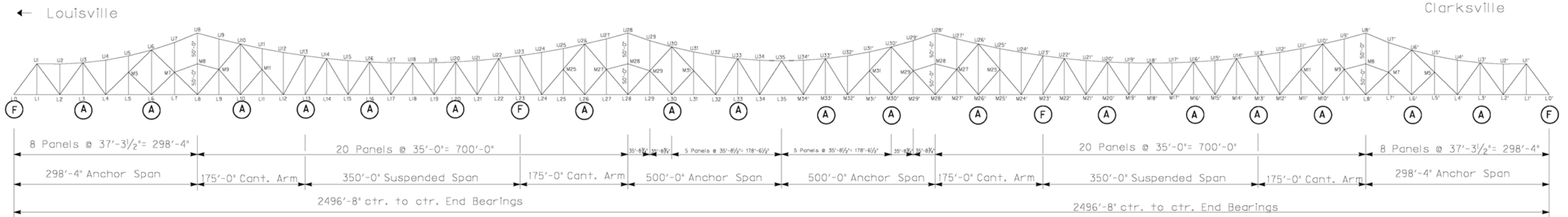
**COLLECTOR BOX  
 DETAIL**



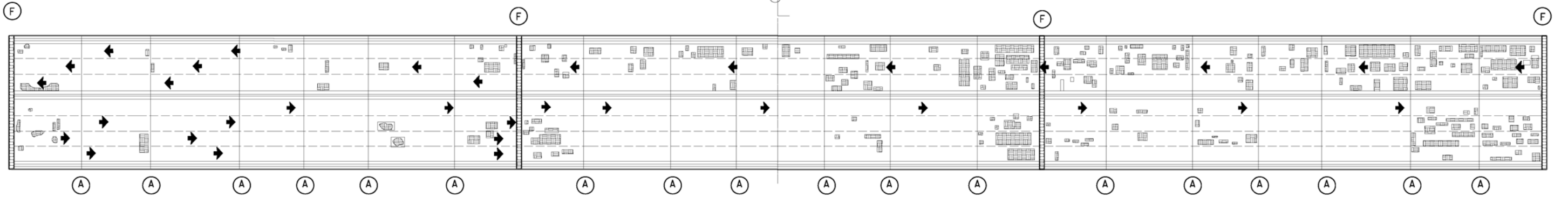
**COLLECTOR BOX  
 SECTION**

ITEM NUMBER	5-801.00
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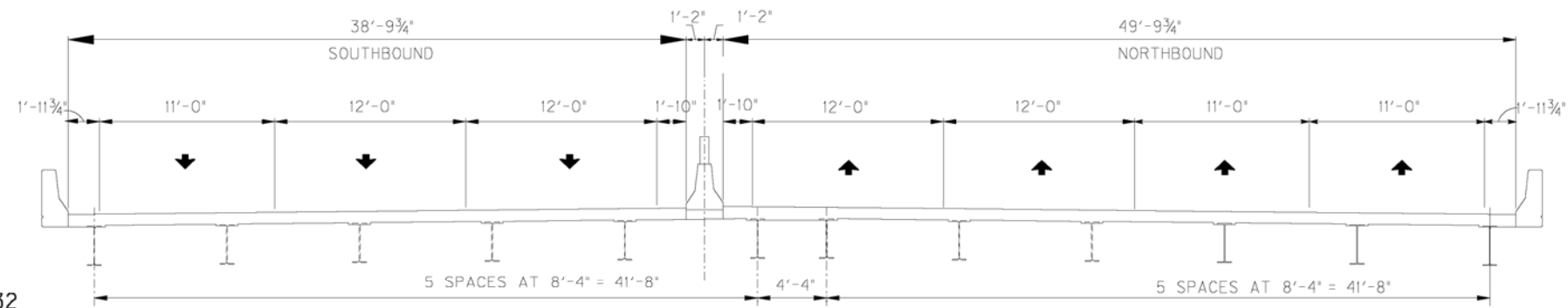
REVISION		DATE
DATE: NOVEMBER 2011	CHECKED BY	
DESIGNED BY: A. FARMER	T. HUNLEY	
DETAILED BY: A. FARMER	T. HUNLEY	
<b>Commonwealth of Kentucky    DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE I-65	CROSSING OHIO RIVER	
<b>DRAINAGE AT PIERS 1 &amp; 6</b>		
PREPARED BY		SHEET NO.
<b>ENTRAN</b>		21
		DRAWING NO.
		23792



ELEVATION



PLAN



SECTION (TYP.)

- (A) Existing Type A Joints See Sheet 32
- (F) Finger Expansion Joints Sheets 9 - 20
- Approximate Location of Delaminated/Spalled/Patched areas. For Information Only.

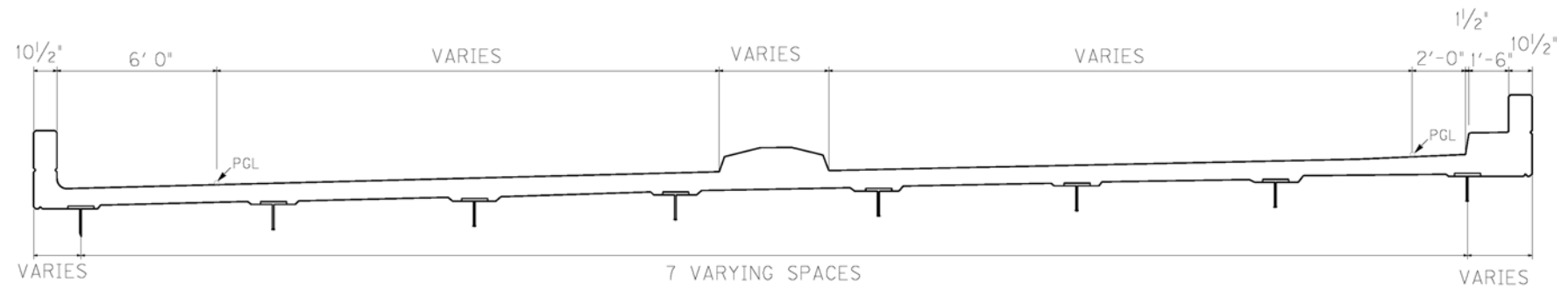
NOT TO SCALE

056B00214N

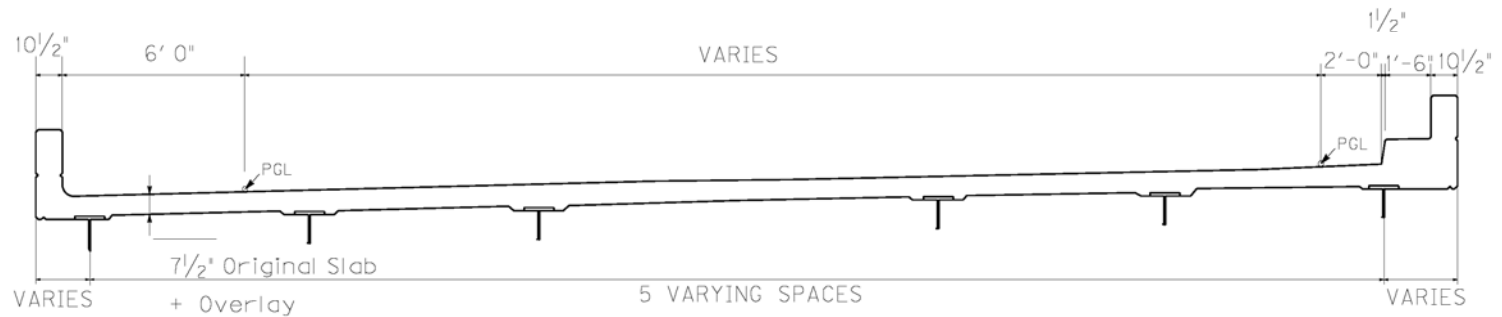
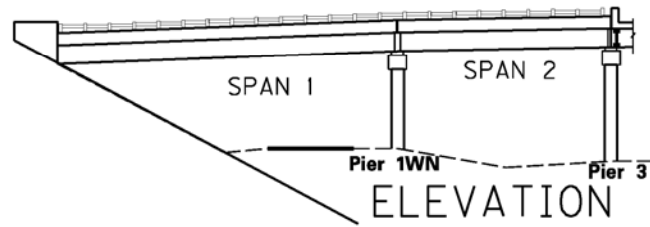
DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>Plan, Typical Section &amp; Elevation</b>	
ITEM NUMBER <b>5-801.00</b>	PREPARED BY <b>Division of Maintenance</b> <b>Bridge Preservation Branch</b>
	SHEET NO. <b>22</b> DRAWING NO. <b>23792</b>

NOTE:  
All measurements noted are approximate and based on the original plans and may not exactly represent the actual dimension. Therefore, the Contractor must field verify all dimension before ordering any parts.

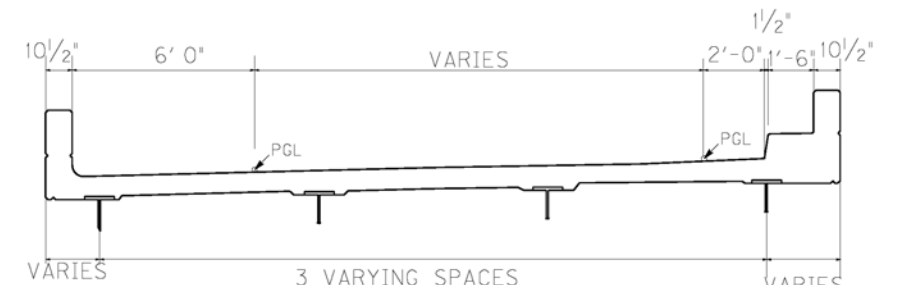
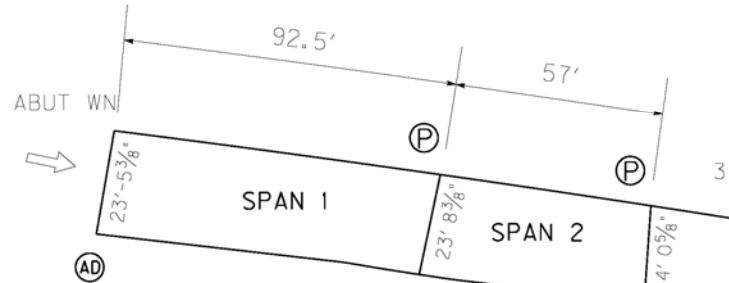
- Ⓢ TYPE S JOINTS SEE SHEET 30
- Ⓟ TYPE AD JOINTS SEE SHEET 29
- Ⓐ TYPE AD JOINTS SEE SHEET 30
- Ⓐ TYPE A JOINTS SEE SHEET 29



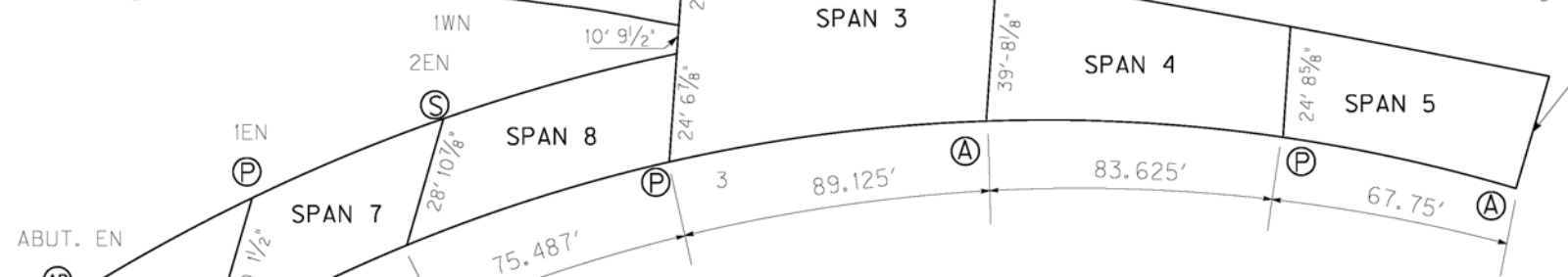
**TYPICAL CROSS SECTION SPAN 3**



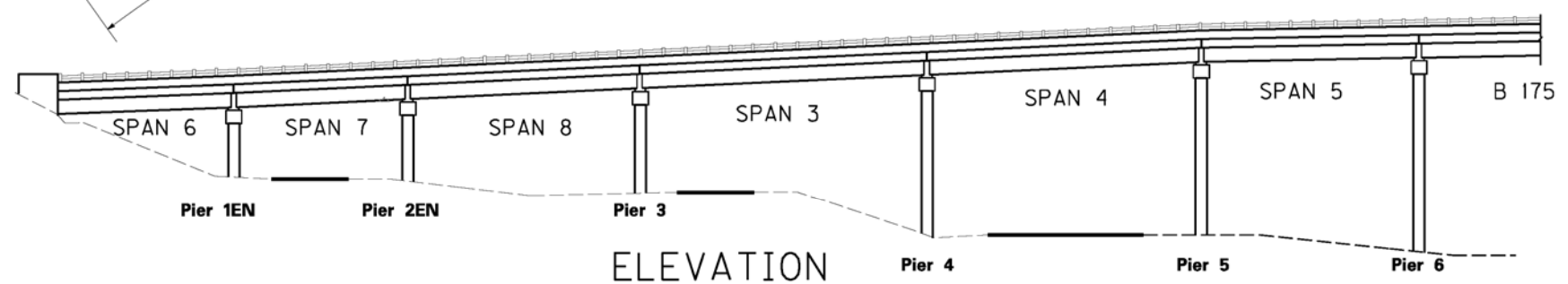
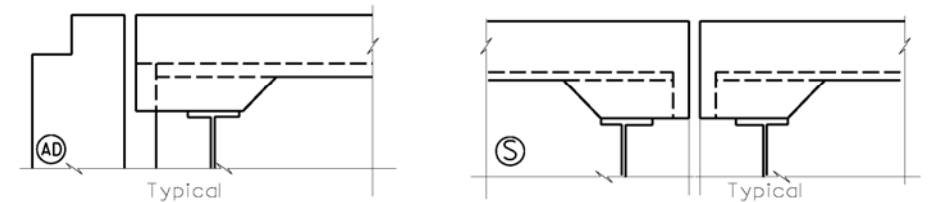
**TYPICAL CROSS SECTION SPAN 4**



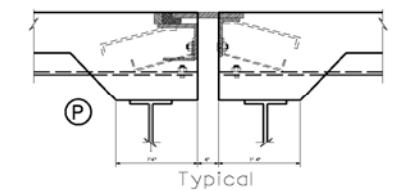
**TYPICAL CROSS SECTION SPAN 5**  
Spans 1, 2, 6, 7 & 8 similar except as noted



**PLANVIEW**

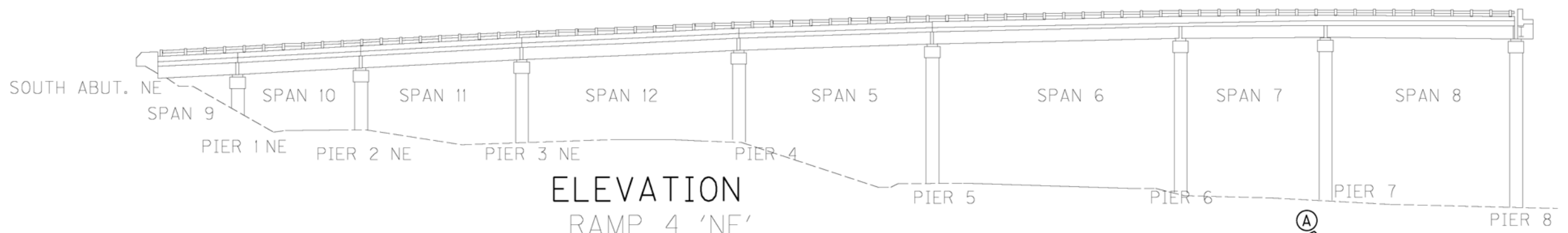


**ELEVATION**



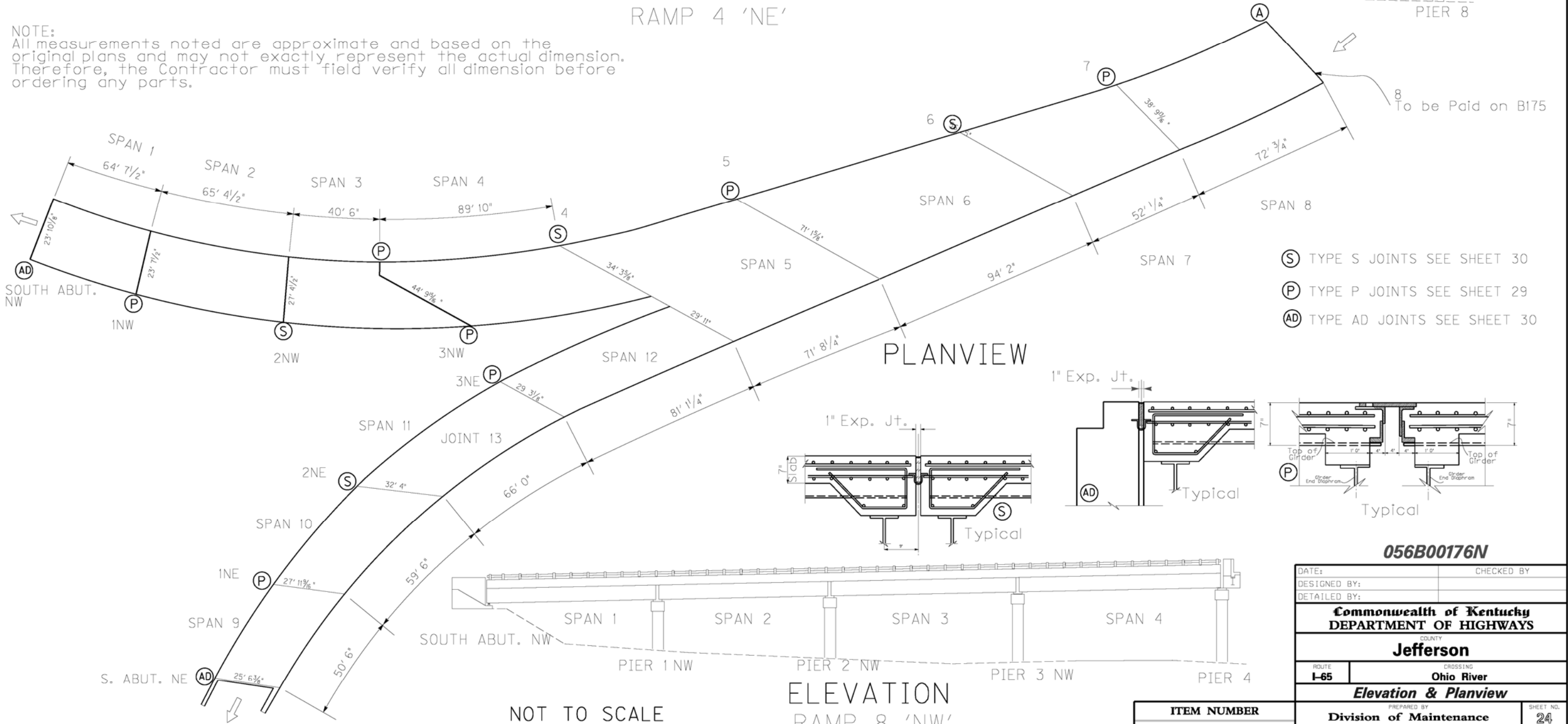
NOT TO SCALE

<b>056B00202N</b>	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>JEFFERSON</b>	
ROUTE <b>I-65</b>	CROSSING <b>OHIO RIVER</b>
<b>Elevation, Section &amp; Planview</b>	
PREPARED BY <b>Division of Maintenance BRIDGE PRESERVATION</b>	SHEET NO. <b>23</b> DRAWING NO. <b>15494</b>



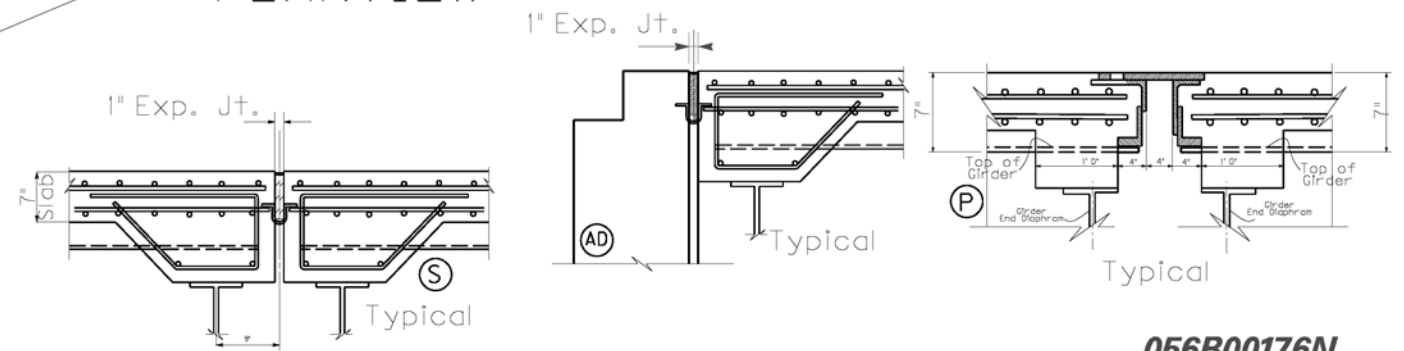
ELEVATION  
RAMP 4 'NE'

NOTE:  
All measurements noted are approximate and based on the original plans and may not exactly represent the actual dimension. Therefore, the Contractor must field verify all dimension before ordering any parts.



PLANVIEW

- (S) TYPE S JOINTS SEE SHEET 30
- (P) TYPE P JOINTS SEE SHEET 29
- (AD) TYPE AD JOINTS SEE SHEET 30



NOT TO SCALE

ELEVATION  
RAMP 8 'NW'

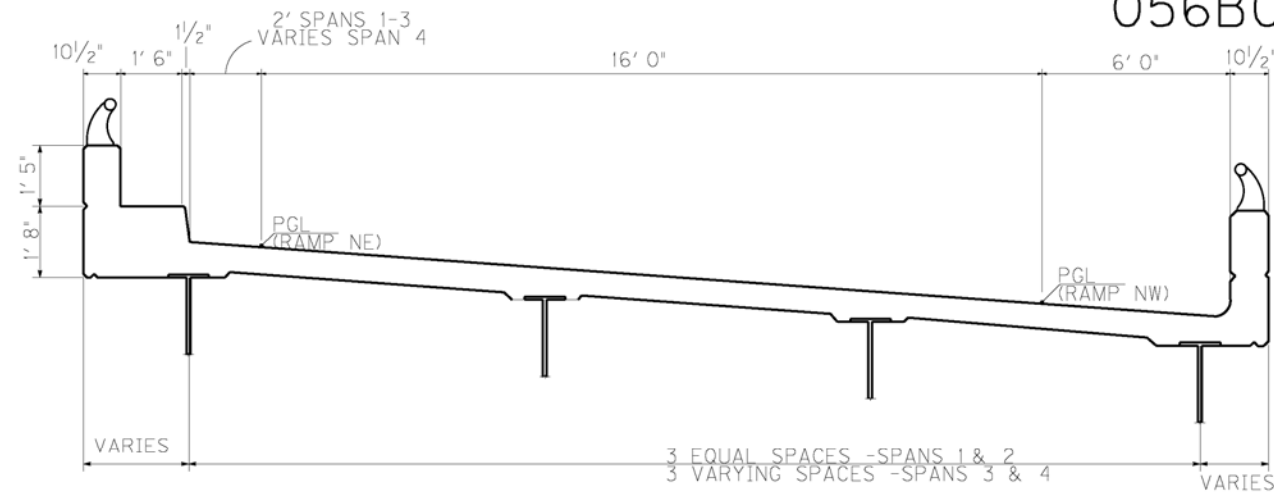
056B00176N

DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>Elevation &amp; Planview</b>	
PREPARED BY <b>Division of Maintenance</b>	SHEET NO. <b>24</b>
<b>Bridge Preservation Branch</b>	DRAWING NO. <b>15495</b>

ITEM NUMBER <b>5-801.00</b>
--------------------------------



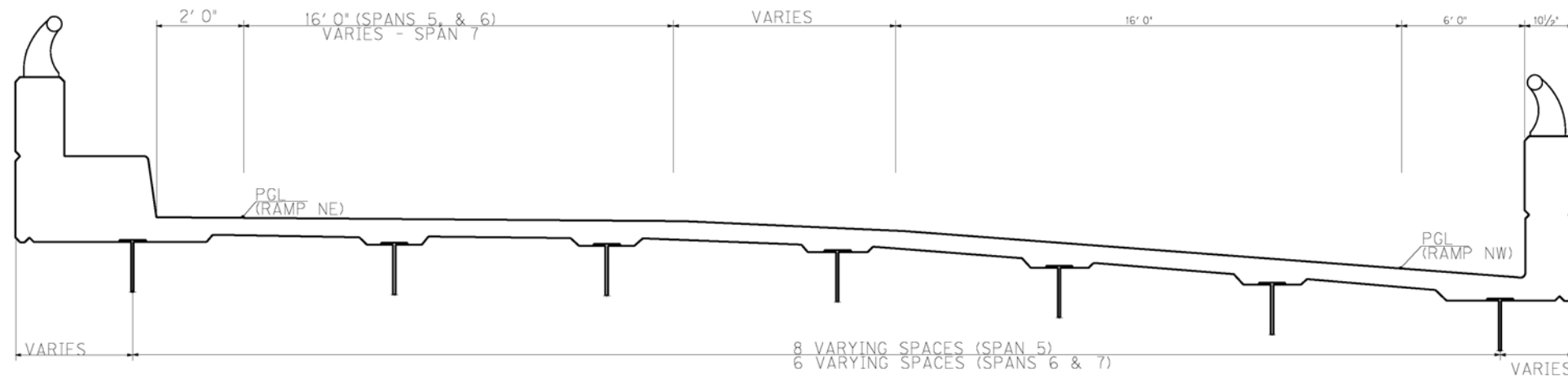
056B00176N



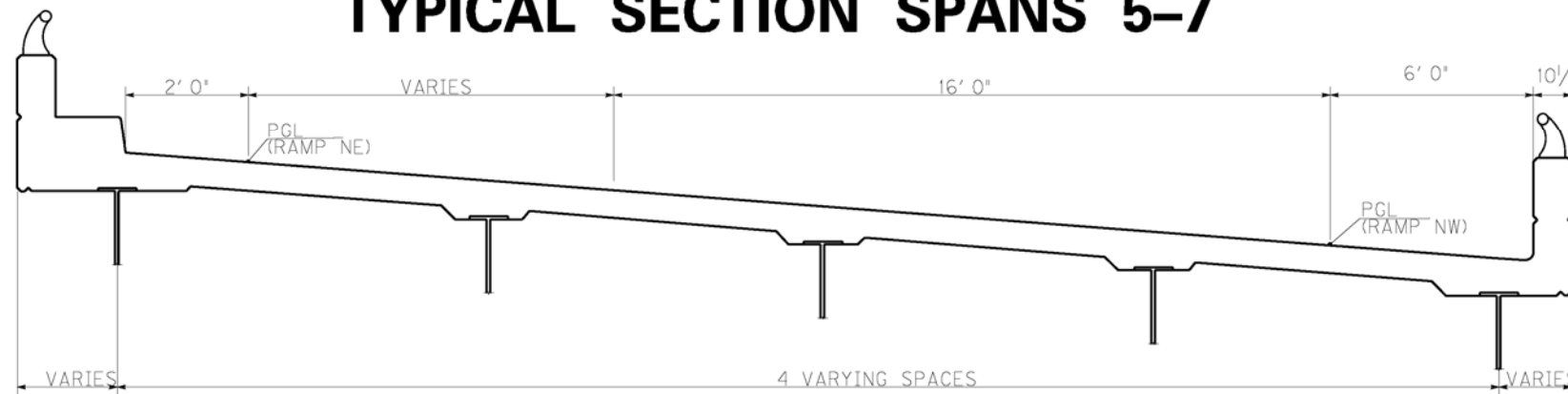
**TYPICAL CROSS SECTION SPANS 1-4**



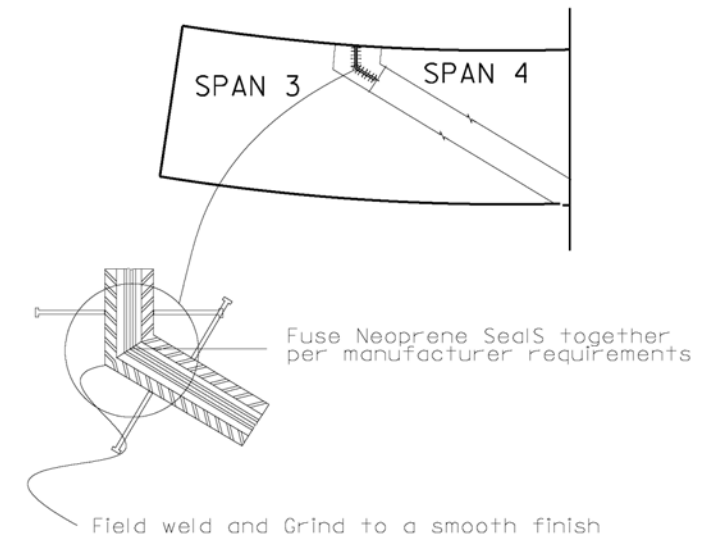
**TYPICAL CROSS SECTION SPANS 9-12**



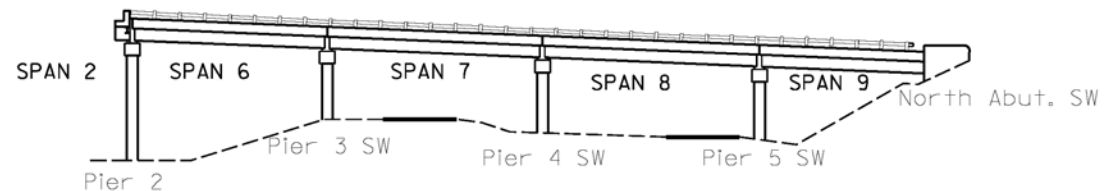
**TYPICAL SECTION SPANS 5-7**



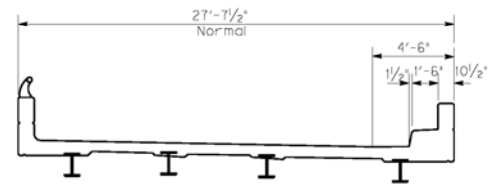
**TYPICAL CROSS SECTION SPAN 8**



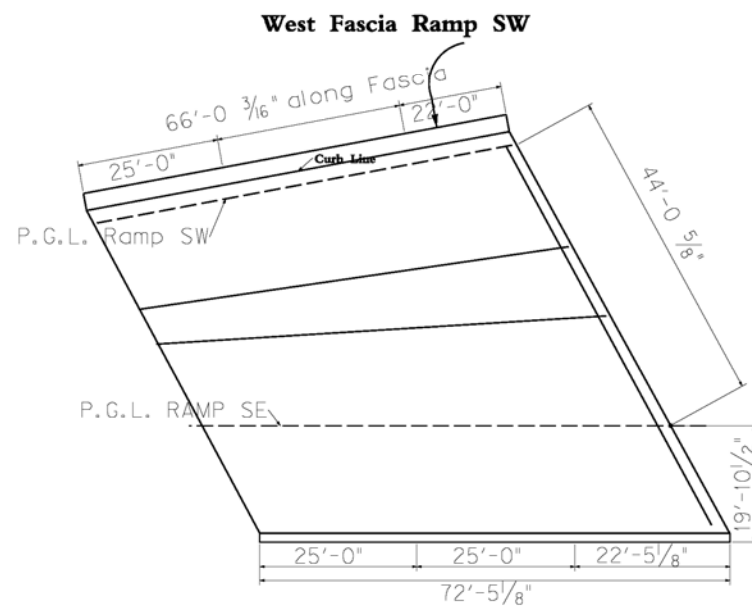
DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>Typical Sections (056B00176N)</b>	
ITEM NUMBER <b>5-801.00</b>	PREPARED BY <b>Division of Maintenance</b> <b>Bridge Preservation Branch</b>
	SHEET NO. <b>25</b> DRAWING NO. <b>15495</b>



ELEVATION

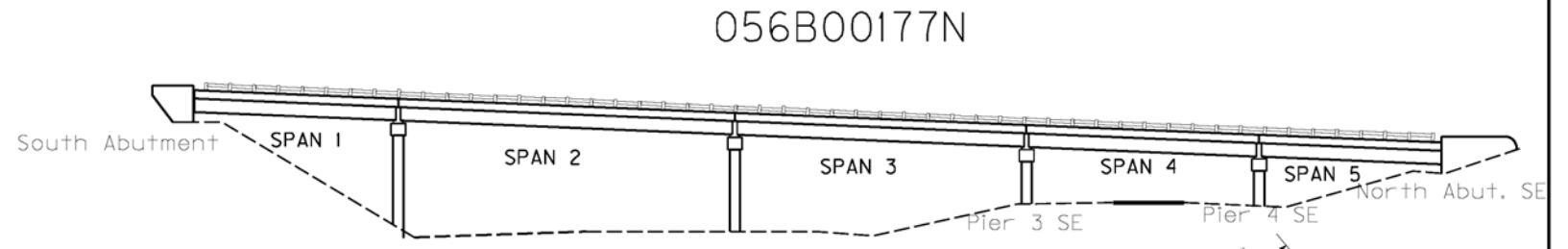


TYPICAL CROSS SECTION SPANS 6 THRU 9

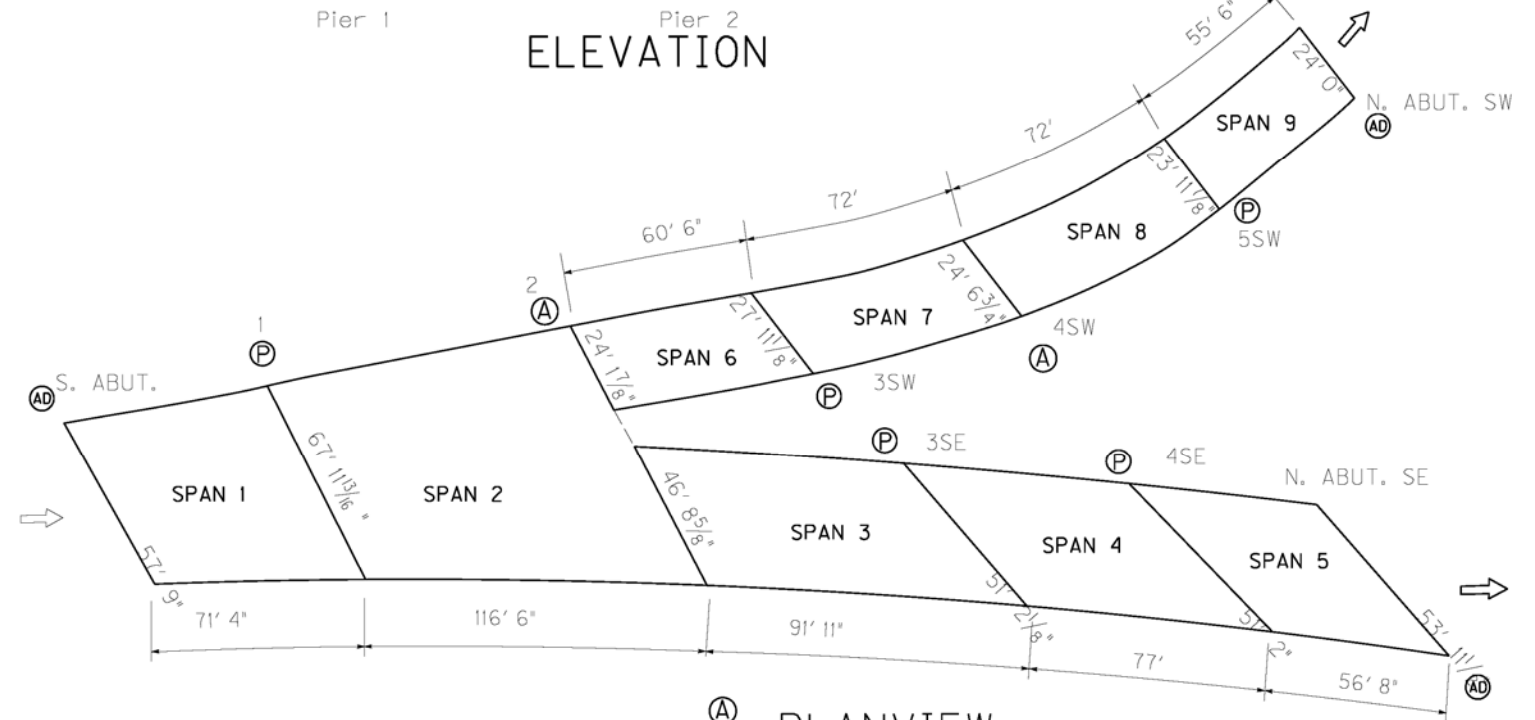


- (S) TYPE S JOINTS SEE SHEET 30
- (P) TYPE AD JOINTS SEE SHEET 29
- (AD) TYPE AD JOINTS SEE SHEET 30
- (A) TYPE A JOINTS SEE SHEET 29

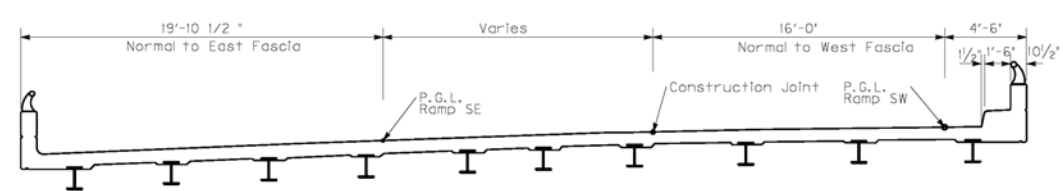
NOTE:  
All measurements noted are approximate and based on the original plans and may not exactly represent the actual dimension. Therefore, the Contractor must field verify all dimension before ordering any parts.



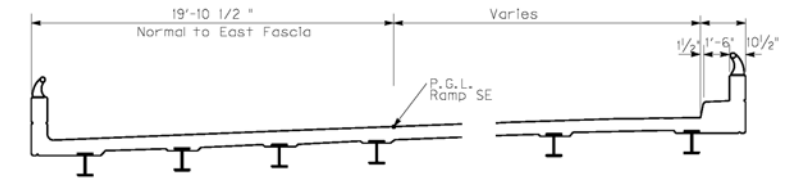
ELEVATION



(A) PLANVIEW



TYPICAL CROSS SECTION SPAN 1 (Span 2 similar, except as noted)



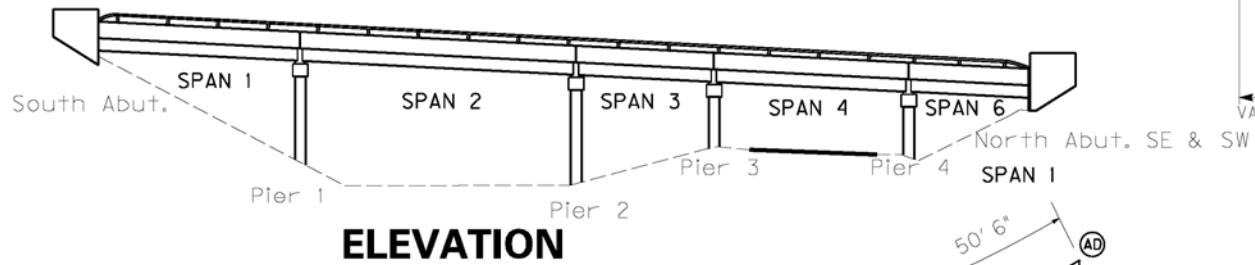
TYPICAL CROSS SECTION SPAN 4 & 5 (Span 3 similar, except as noted)

NOT TO SCALE

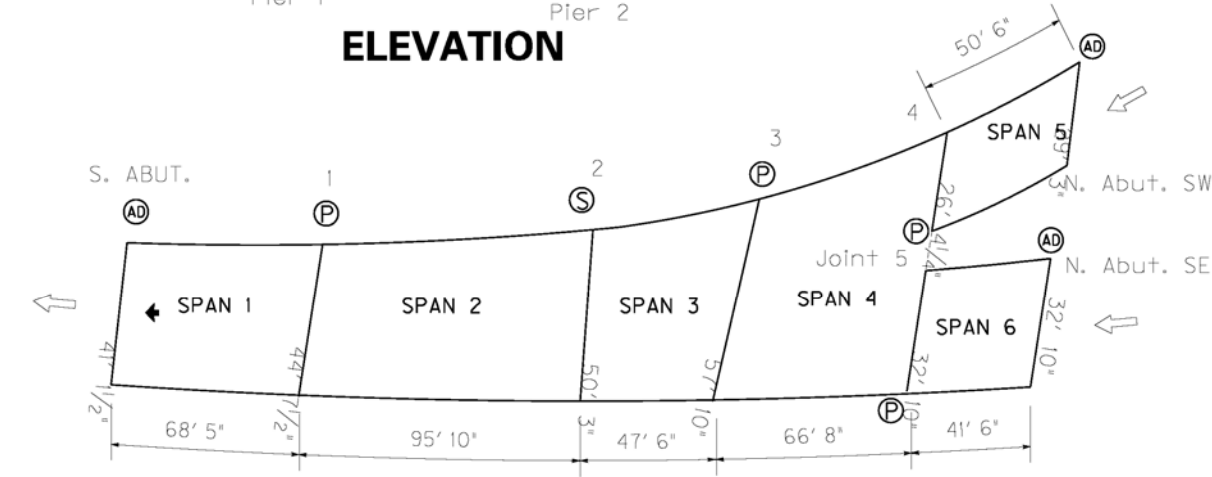
056B00177N	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS	
COUNTY <b>JEFFERSON</b>	
ROUTE <b>I-65</b>	CROSSING <b>OHIO RIVER</b>
<b>Elevation, Section &amp; Planview</b>	
PREPARED BY <b>DIVISION OF MAINTENANCE</b>	SHEET NO. <b>26</b>
<b>BRIDGE PRESERVATION</b>	DRAWING NO. <b>15496</b>

ITEM NUMBER	5-801.00
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056B00178N

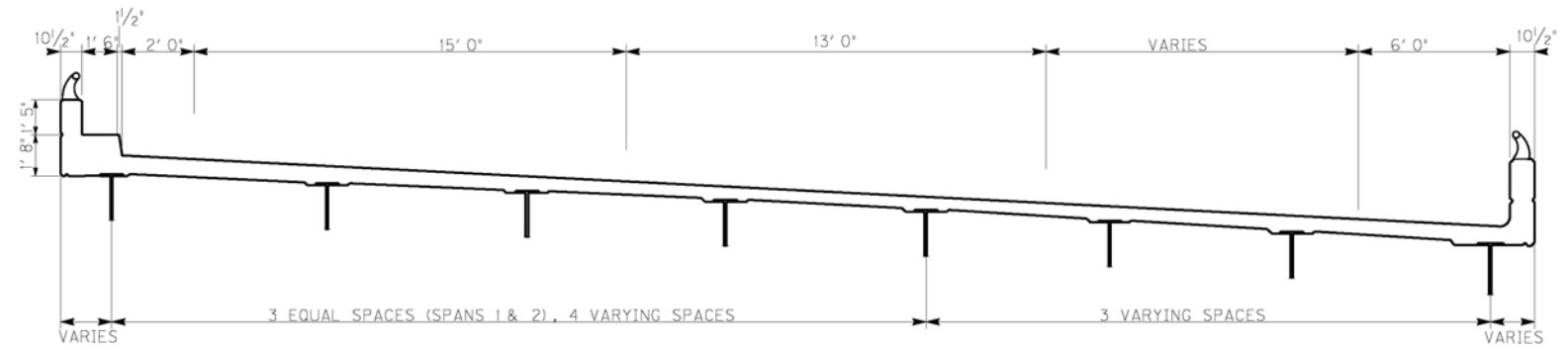
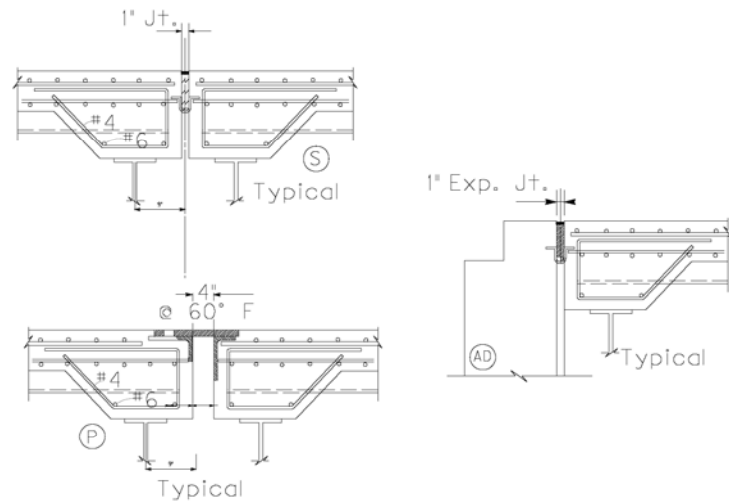


**ELEVATION**

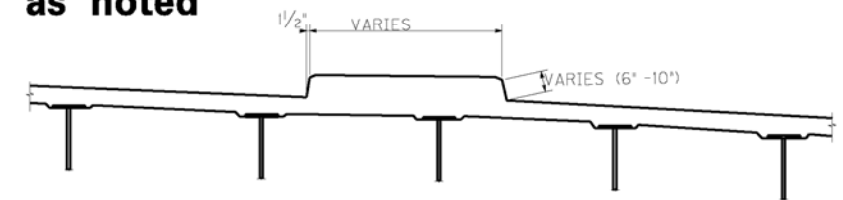


**PLANVIEW**

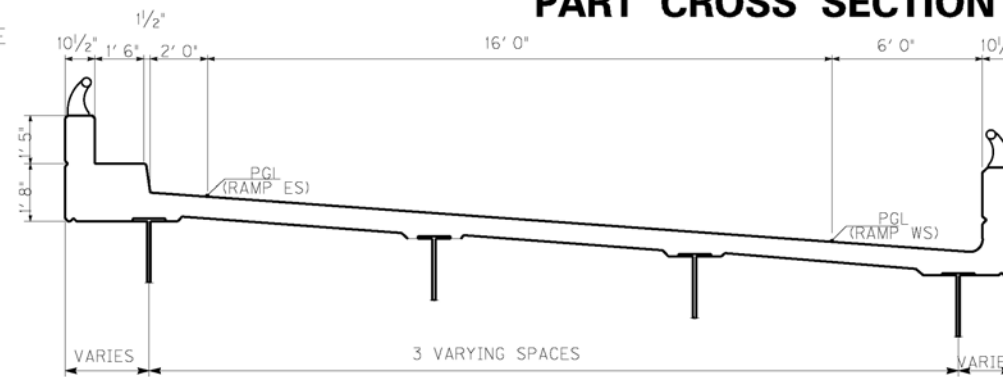
NOTE:  
All measurements noted are approximate and based on the original plans and may not exactly represent the actual dimension. Therefore, the Contractor must field verify all dimension before ordering any parts.



**TYPICAL CROSS SECTION SPAN 3**  
Spans 1 & 2 Similar, excepted as noted

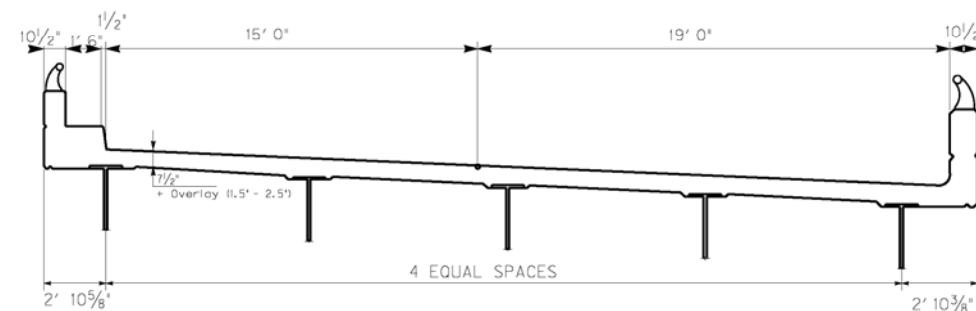


**PART CROSS SECTION SPAN 4**



**TYPICAL CROSS SECTION SPAN 5**

- Ⓢ TYPE S JOINTS SEE SHEET 30
- Ⓟ TYPE AD JOINTS SEE SHEET 29
- ⒶD TYPE AD JOINTS SEE SHEET 30



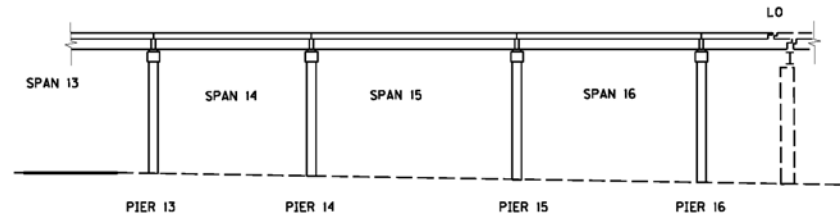
**TYPICAL CROSS SECTION SPAN 6**

NOT TO SCALE

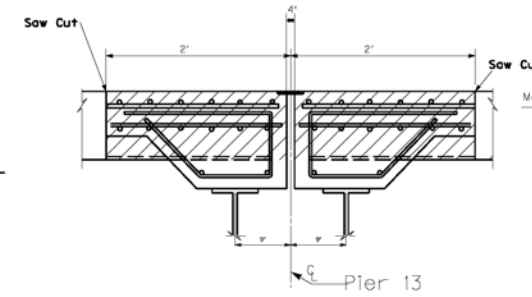
056B00178N

<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>	
<b>JEFFERSON</b>	
ROUTE <b>I-65</b>	CROSSING <b>OHIO RIVER</b>
<b>Elevation, Section &amp; Planview</b>	
ITEM NUMBER <b>5-801.00</b>	PREPARED BY <b>DIVISION OF MAINTENANCE BRIDGE PRESERVATION</b>
	SHEET NO. <b>27</b> DRAWING NO. <b>15497</b>

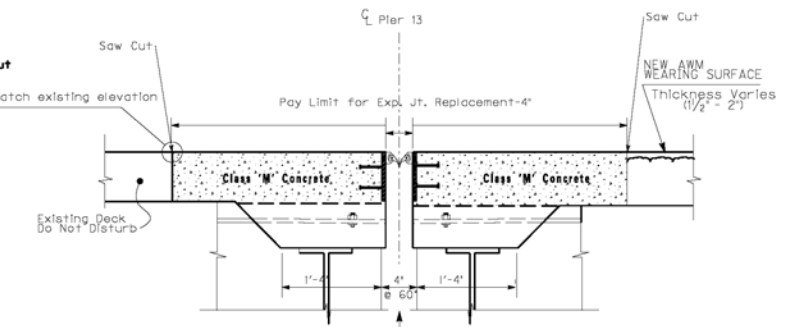
056B00175N  
Approach bridge  
to 056B00214N



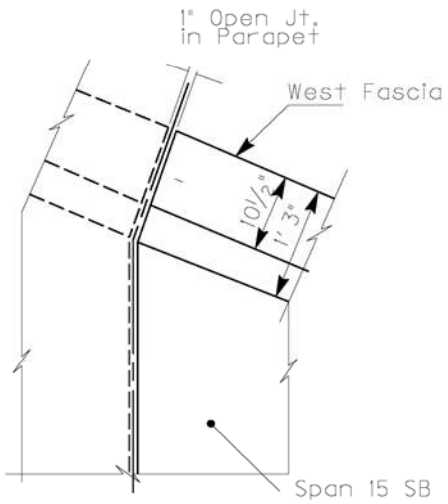
ELEVATION



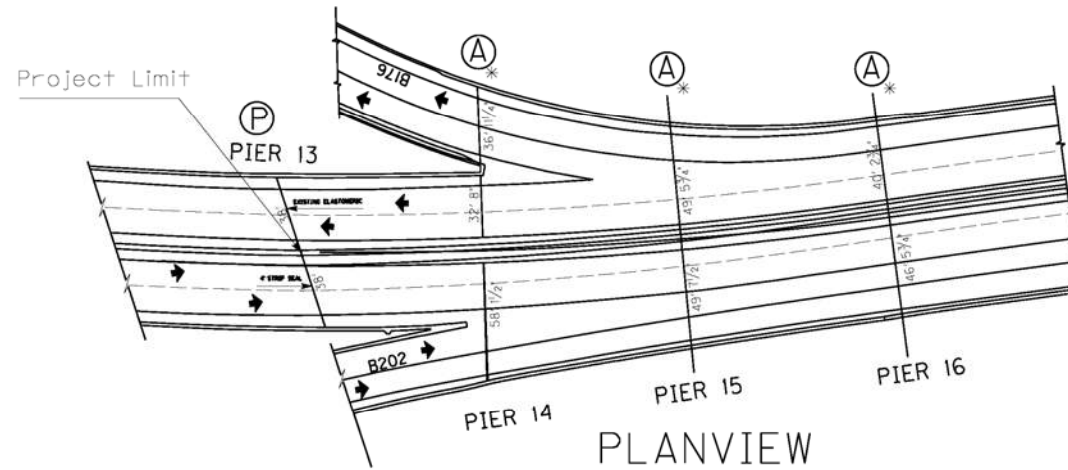
EXISTING



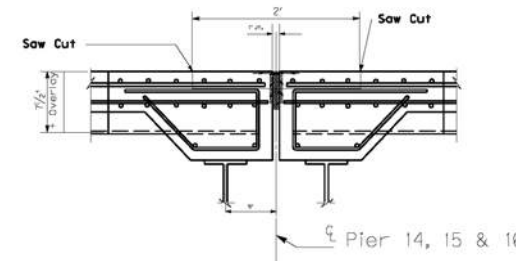
PROPOSED



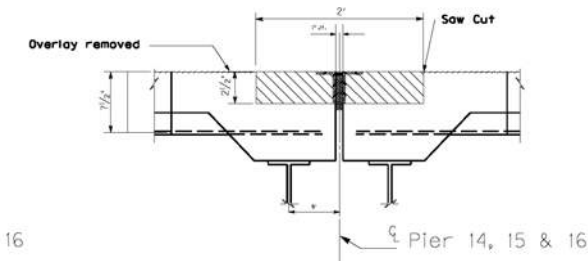
Corner at West Fascia  
Span 15 SB



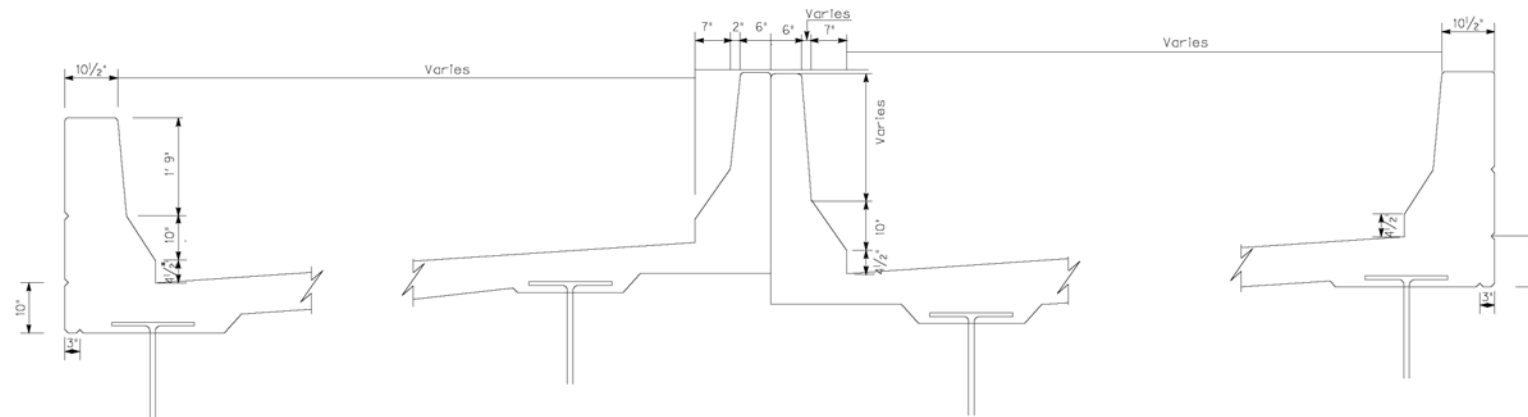
PLANVIEW



EXISTING

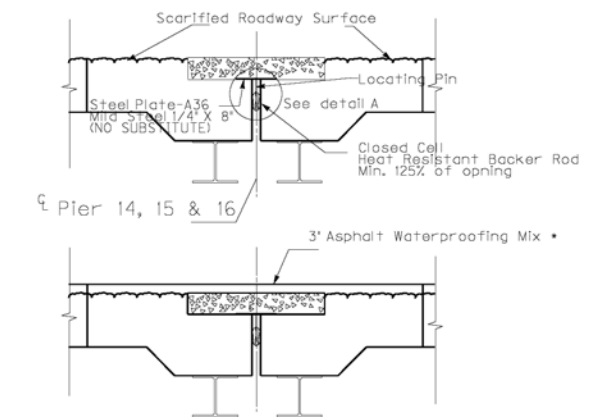


PROPOSED  
Reinforcement not shown for clarity  
Remove X-Hatched Areas  
of Concrete & Expansion Device  
Clean & Leave Steel Reinf. in place.

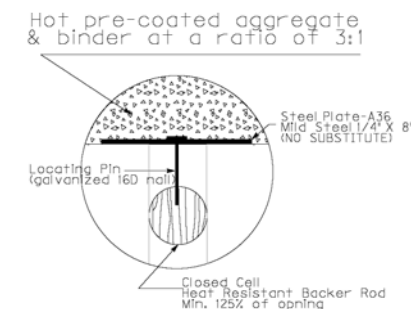


TYPICAL SECTION

Spans 14 - 17



PROPOSED



DETAIL A

Area to be removed, also see sheet 29

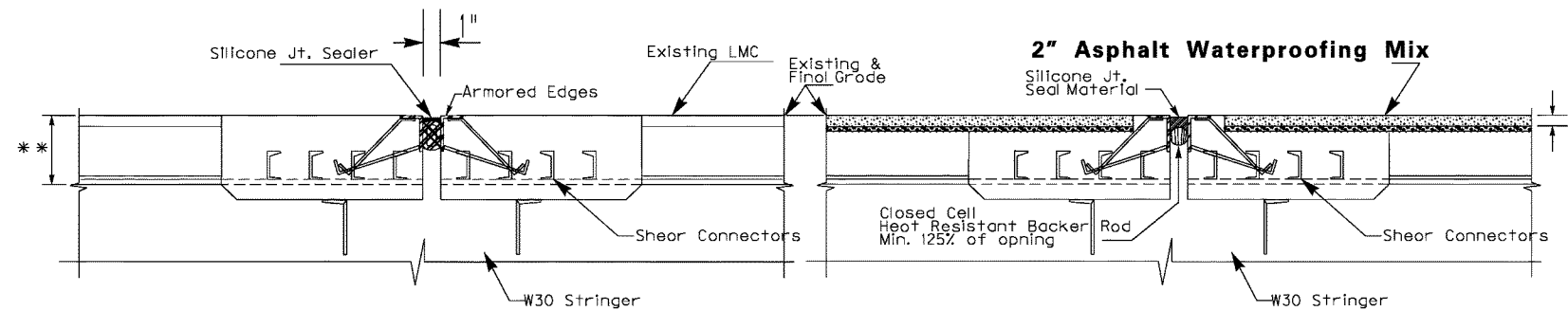
- Ⓢ TYPE S JOINTS SEE SHEET 30
- Ⓟ TYPE P JOINTS SEE SHEET 29
- ⒶD TYPE AD JOINTS SEE SHEET 30
- Ⓐ TYPE A JOINTS SEE SHEET 29

\* ALL TYPE A JOINTS ON 056B00175N SHALL BE TREATED AS TYPE S JOINT THEY WILL BE MEASURED AND PAID AS ASPHALT PLUG JOINT.

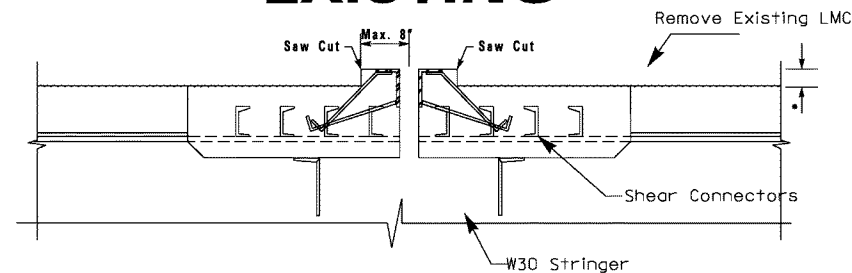
NOT TO SCALE

<b>056B00175N</b>	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>	
<b>JEFFERSON</b>	
ROUTE <b>I-65</b>	CROSSING <b>OHIO RIVER</b>
<b>Planview, Elevation &amp; Cross Section</b>	
ITEM NUMBER <b>5-801.00</b>	PREPARED BY <b>DIVISION OF MAINTENANCE BRIDGE PRESERVATION</b>
	SHEET NO. <b>28</b> DRAWING NO. <b>15969</b>

# TYPICAL TYPE (A) JOINT

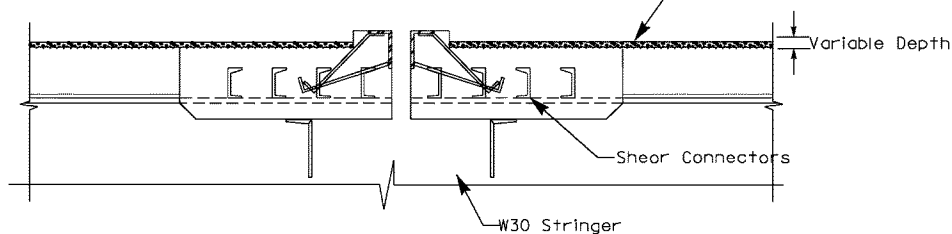


**EXISTING**



Saw Cut the pavement at a maximum distance of 8" from Armored Edges. Preserve Armored Edges and the Anchor rods. Clean and leave all reinforcing steel in place. Remove the existing joint fill material and supporting backer rod.

Class 'M' concrete (see special notes)  
2" below final grade



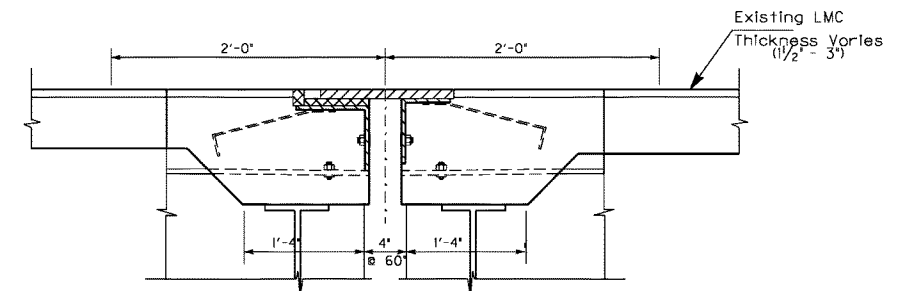
Clean the joint area thoroughly, place backer rod. Obtain Engineer's approval before placing silicone joint material (Must be from Kentucky List of Approved Material). Place silicone joint material as per manufacturer recommendation. To protect armored edges and the joints, completely cover joints and armored edges before placing the "Asphalt Waterproofing Mix".

\* 3" for bridge B00214N  
1 1/2" to 2" for Ramps

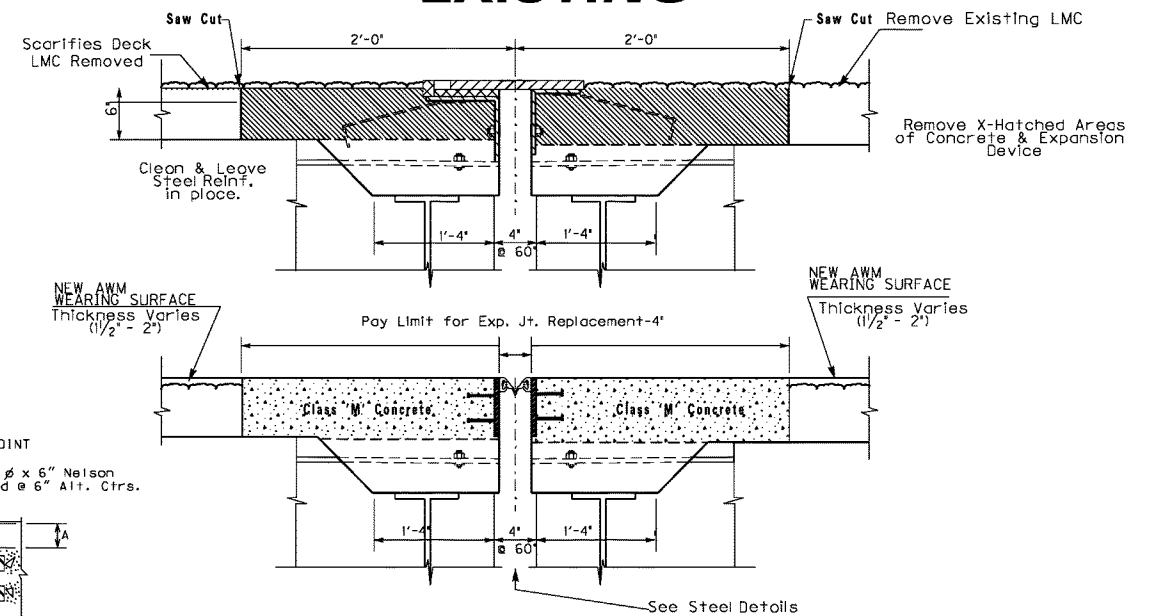
\*\* 12" for 056B00214N and varies for ramps.

**PROPOSED**

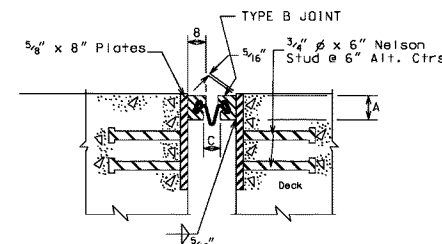
# TYPICAL TYPE (P) JOINT



**EXISTING**



**STEEL DETAIL**



TYPICAL 4" JOINT (Strip Seal)

ALTERNATE NEOPRENE EXPANSION DAMS - 4"			
		A	B C
B	WADO STRIP SEAL Type A Extrusion with S-400 Seal	Watson Bowman Associates Inc.	2" 1 1/2" 2"
B	STEEL FLEX Type SSA with 400 Seal	D. S. Brown Co.	2" 1 1/2" 2 1/2"
B	GENERAL STRIP CD Profile A Steel Extrusion with Gen Strip CD Seal	General Tire Co.	2" 1 1/2" 2 1/4"
B	ONFLEX Type AM2 Extrusion with 40SE0 Seal	Structural Accessories Inc.	2" 1 1/4" 2"

INCREMENT FOR 10° TEMPERATURE CHANGE										
- STEEL SPAN -										
THRU 60"	61"-100"	101"-140"	141"-180"	181"-240"	241"-320"	321"-365"				
1/2"	1/2"	3/4"	3/4"	1/2"	1/2"	1/2"				
- CONCRETE SPAN -										
0'-80"	81"-140"	141"-200"	201"-260"	261"-320"	321"-420"	421"-560"	561"-700"			
1/2"	1/2"	3/4"	1/2"	3/4"	3/4"	1/2"	5/8"			

NOTE: Joint openings shall be adjusted for each 10° above or below 60° F. Decrease or Increase respectively by Increment shown.

**PROPOSED**

These sections are intended to show JOINT REPLACEMENT operations only, and not the deck repair.

NOT TO SCALE

DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>Joint Replacement - Types A &amp; P</b>	
PREPARED BY <b>Division of Maintenance</b>	SHEET NO. <b>29</b>
<b>Bridge Preservation Branch</b>	DRAWING NO. <b>23792</b>

ITEM NUMBER
5-801.00



# TYPICAL TYPE AD JOINT

# TYPICAL TYPE S JOINT

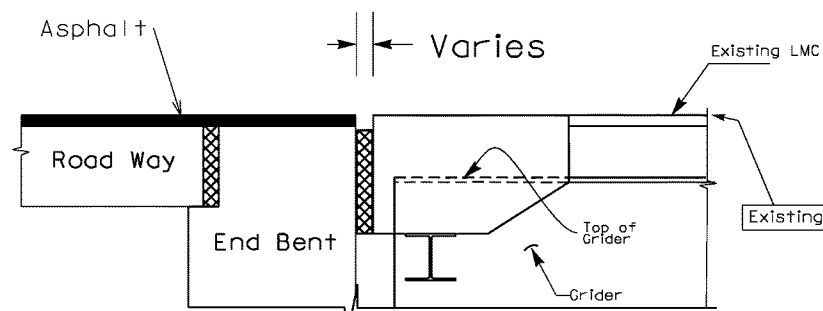
These sections are intended to show JOINT REPLACEMENT operations only, and not the deck repair.

**NOTE:**

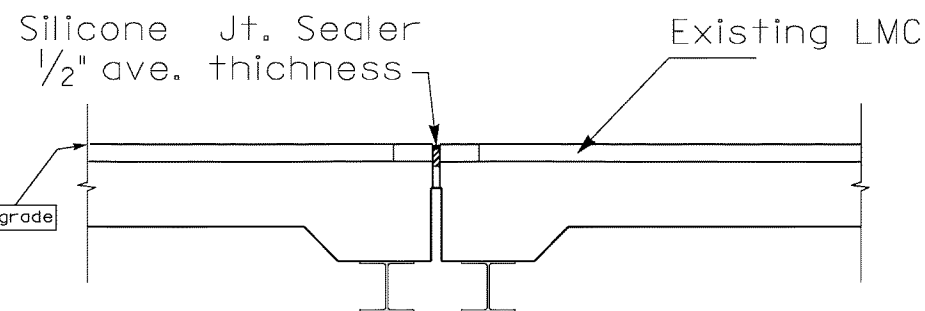
The contractor is responsible for matching the grades and cross slopes of the existing decks.

The proposed dimensions are based on the existing plans. Any minor height adjustments necessary must be approved by the engineer. The contractor is to field measure all dimensions necessary to complete the work prior to ordering any material.

Types AD, & S joints shall be measured for payment as described in the Special Note For Asphalt Plug Joint System.

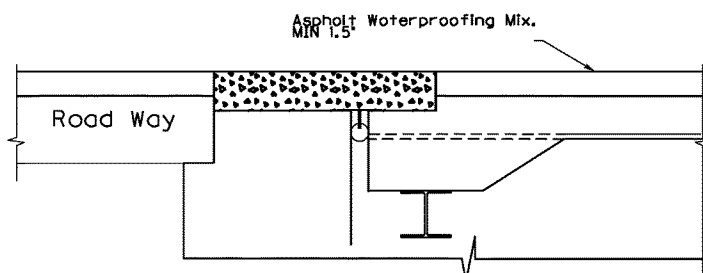
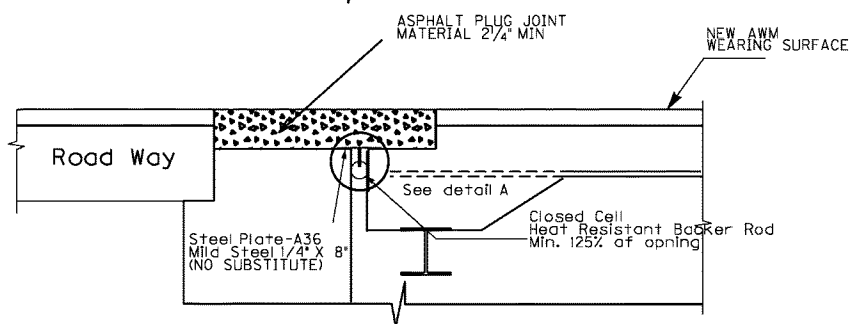
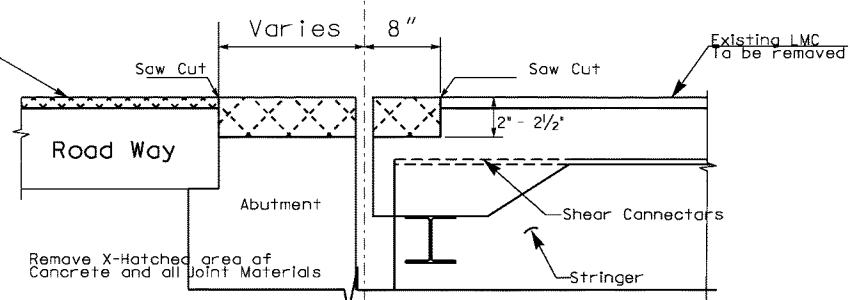


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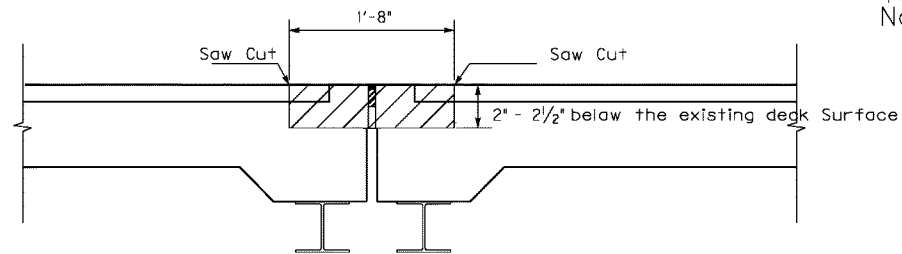


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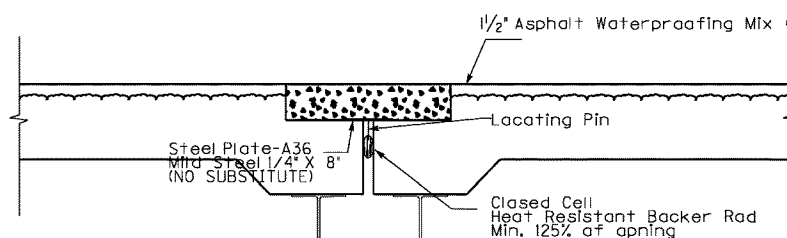
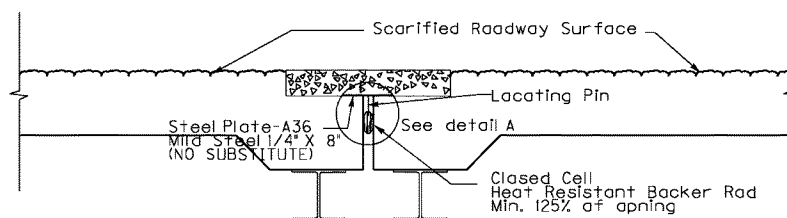
Mill 1 1/2" of existing Asphalt on the approaches for 100'.



**PROPOSED**

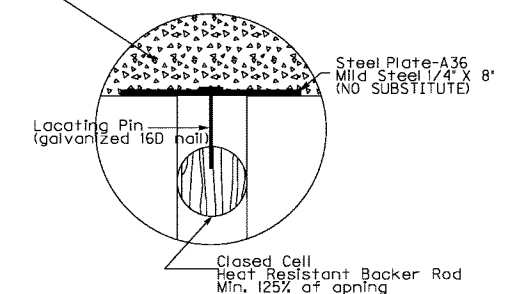


Remove x-hatched areas of concrete and joint material. Clean & leave all reinforcing steel.



**PROPOSED**

Hot pre-coated aggregate & binder at a ratio of 3:1



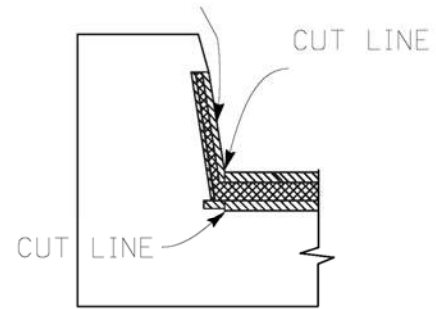
**DETAIL A**

NOT TO SCALE

DATE:		CHECKED BY:	
DESIGNED BY:			
DETAILED BY:			
<b>Commonwealth of Kentucky</b>			
<b>DEPARTMENT OF HIGHWAYS</b>			
COUNTY			
<b>Jefferson</b>			
ROUTE	CROSSING		
<b>I-65</b>	<b>Ohio River</b>		
<b>Joint Replacement - Types S &amp; AD</b>			
ITEM NUMBER		PREPARED BY	SHEET NO.
<b>5-801.00</b>		<b>Division of Maintenance</b>	<b>30</b>
		<b>Bridge Preservation Branch</b>	DRAWING NO.
			<b>23792</b>

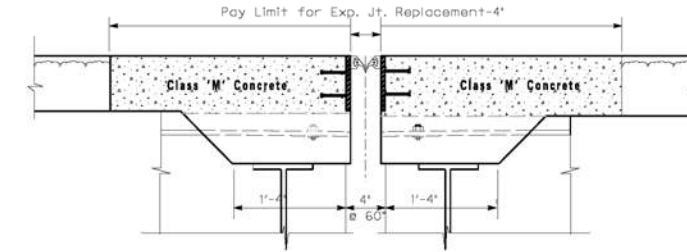
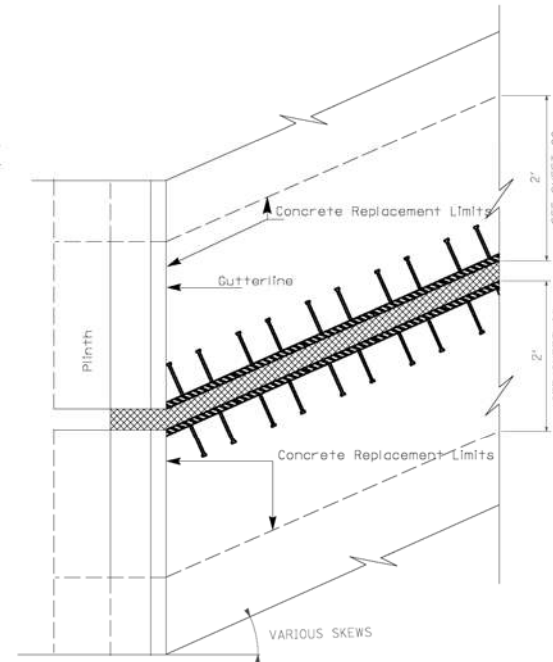
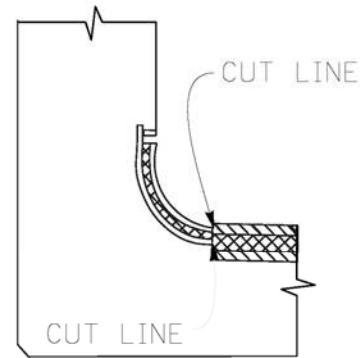
### TYPICAL TYPE P JOINT

DO NOT DISTURB EXISTING CURB PLATE



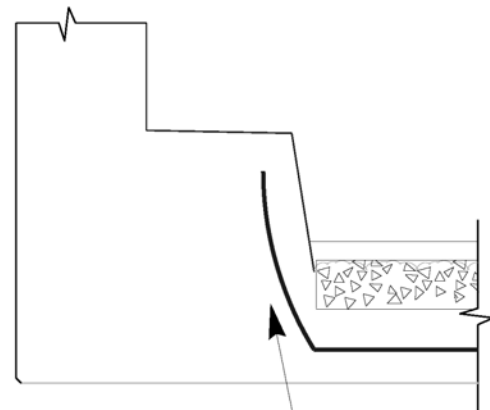
EXISTING CURB WITH PLATE

DO NOT DISTURB EXISTING CURB PLATE

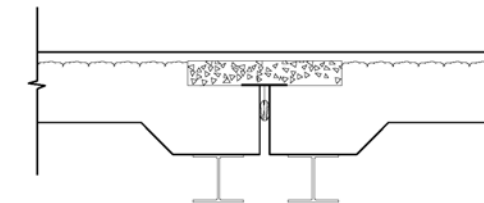
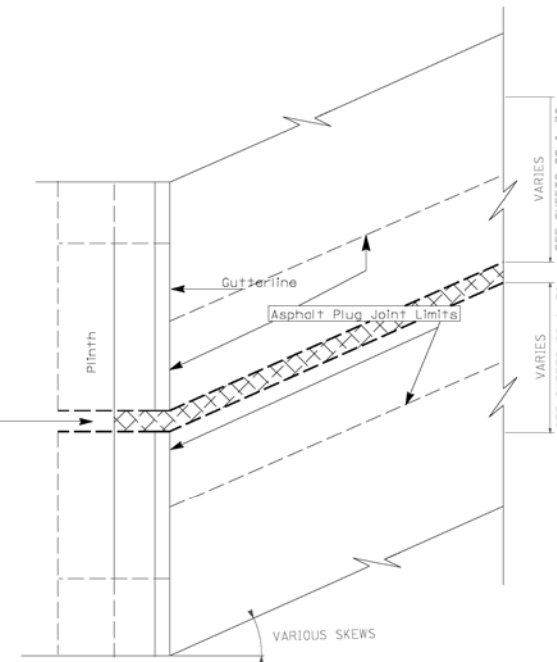
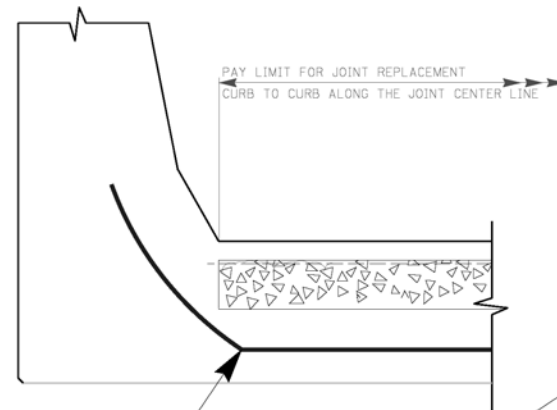


THE EXISTING PLATE AT THE CURB OF A TYPE P JOINT MAYBE CUT AS SHOWN. EXTEND THE 4" STRIP SEAL 3 INCHES INTO THE CURB AT 45 DEGREE ANGLE IF NO SUCH PLATE EXISTS. ALL OTHER JOINTS SHALL HAVE BACKER ROD EXTENDED INTO CURB AS DETAILED IN DRAWINGS. SEAL CURB AREA WITH APPROVED SILICON JOINT SEALER

### TYPICAL TYPES S & AD JOINTS (AD NOT SHOWN)



Closed Cell Heat Resistant Backer Rod Min. 125% of opening



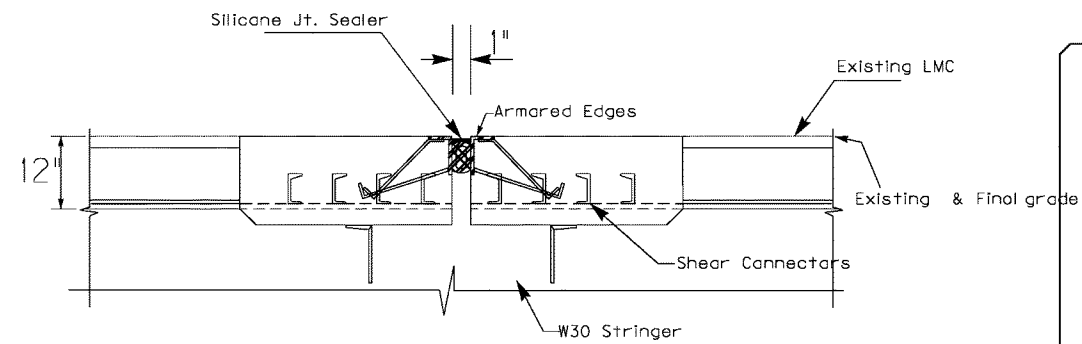
Chip and Clean the joint area at the curb thoroughly for placement of backer rod. Backer rod is to extend into curb to the Engineer's satisfaction. Backer rod is to be one continuous piece extending from deck into curb. If curb joint and deck joint are different sizes overlap backer rods six inches before placement of silicone joint seal material. Obtain Engineer's approval before placing silicone joint material (Must be from Kentucky List of Approved Material). Place silicone joint material as per manufacturer recommendation.

NOT TO SCALE

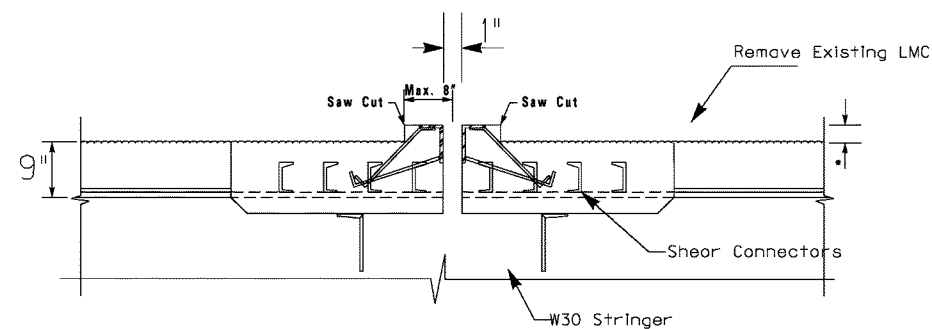
ITEM NUMBER	5-801.00
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DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>Joint Replacement - Curb Sections</b>	
PREPARED BY <b>Division of Maintenance</b>	SHEET NO. <b>31</b>
<b>Bridge Preservation Branch</b>	DRAWING NO. <b>23792</b>

# TYPICAL TYPE A JOINT ON BRIDGE 056B00214N

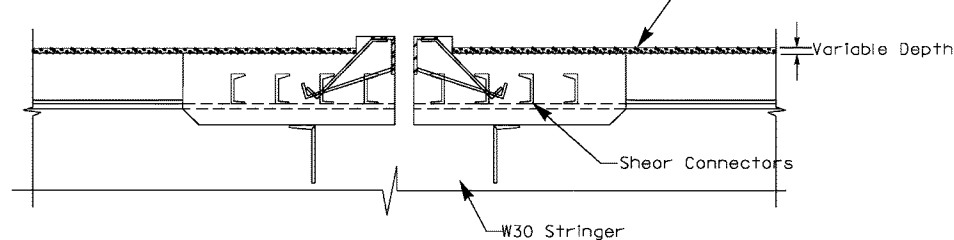


**EXISTING**

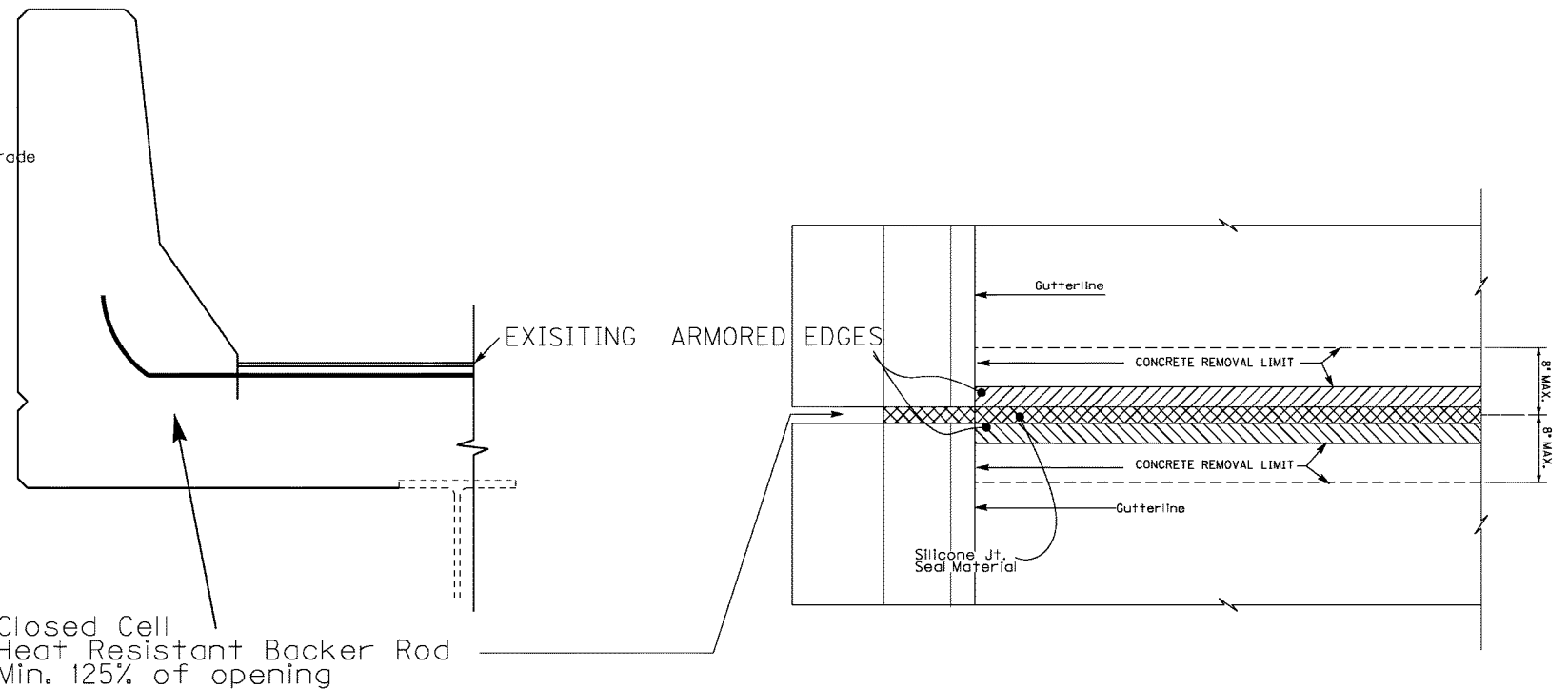


Saw Cut the pavement at a maximum distance of 8" from Armored Edges. Preserve Armored Edges and the Anchor rods. Clean and leave all reinforcing steel in place. Remove the existing joint fill material and supporting backer rod.

Class 'M' concrete (see special notes)  
2" below final grade

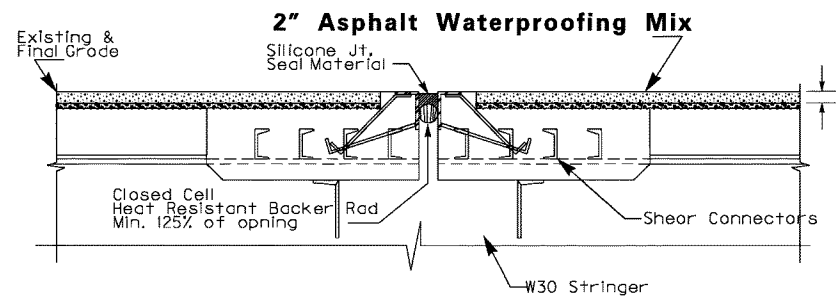


Clean the joint area thoroughly, place backer rod. Obtain Engineer's approval before placing silicone joint material (Must be from Kentucky List of Approved Material). Place silicone joint material as per manufacturer recommendation. To protect armored edges and the joints, completely cover joints and armored edges before placing the "Asphalt Waterproofing Mix".



THIS WORK SHALL BE MEASURED FOR PAYMENT FROM GUTTERLINE TO GUTTERLINE ALONG THE JOINT CENTERLINE

These sections are intended to show JOINT REPLACEMENT operations only, and not the deck repair.



**PROPOSED**

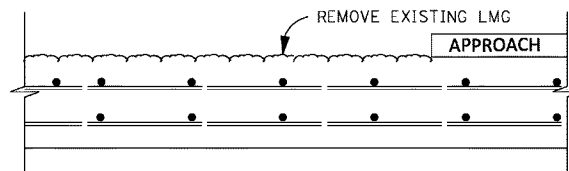
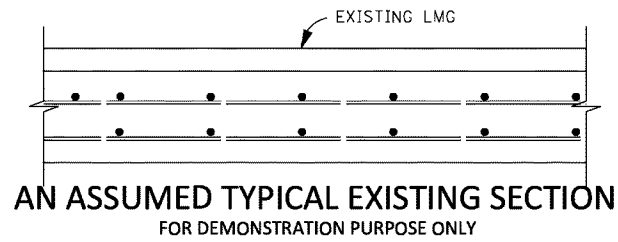
NOT TO SCALE

(056B00214N)

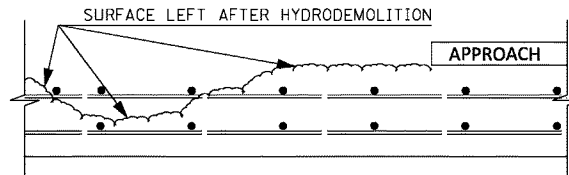
DATE:		CHECKED BY:	
DESIGNED BY:			
DETAILED BY:			
<b>Commonwealth of Kentucky</b>			
<b>DEPARTMENT OF HIGHWAYS</b>			
COUNTY			
<b>Jefferson</b>			
ROUTE	CROSSING		
I-65	Ohio River		
<b>Joint Replacement - Type A</b>			
PREPARED BY		SHEET NO.	
Division of Maintenance		32	
Bridge Preservation Branch		DRAWING NO.	
		23792	

ITEM NUMBER
5-801.00

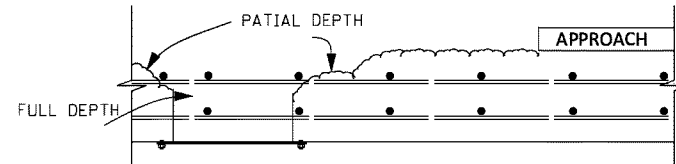
THE FOLLOWING SKETCHES SHOW THE INTENT OF THIS PROJECT TO REPAIR THE EXISTING BRIDGE DECKS AND PLACE WATERPROOFING MIX TO PROTECT THE BRIDGE DECKS.



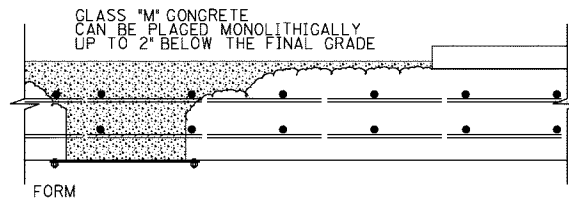
1. REMOVE EXISTING OVERLAY USING MECHANICAL SCARIFIER, MILLING MACHINE OR OTHER APPROVED MEANS



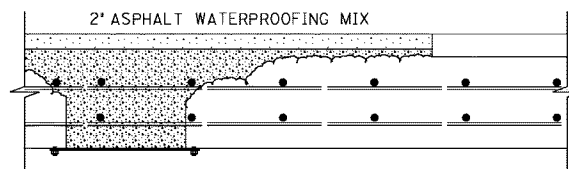
2. USE HYDRODEMOLITION EQUIPMENT TO REMOVE ALL DETERIORATED, DELAMINATED CONCRETE AND ALL PATCHES



3. WHERE THE DECK IS SOUND FOR LESS THAN 1/2 OF ITS ORIGINAL DEPTH, THE CONCRETE SHALL BE REMOVED FULL DEPTH



4. THE CONTRACTOR MAY SET THE FINISHING MACHINE 2" BELOW THE FINAL GRADE AND PLACE CLASS 'M' CONCRETE TO PATCH FULL DEPTH, PARTIAL DEPTH AND TO PROVIDE A CONSISTENT ROUGH FINISH GRADE



5. PLACE 2" ASPHALT WATERPROOFING MIX

**GENERAL BRIDGE WATERPROOFING CONSTRUCTION REQUIREMENTS FOR THIS PROJECT;**

Provide all labor, equipments, materials and tool needed to perform the following:

**Materials:**

- Class "M" Concrete
- Asphalt Waterproofing Mix

**Equipments:**

- Sawing Equipment
- Hammer
- Hydraulic Impact Equipment
- Hydrodemolition Equipment

**Construction Method:**

1. Use Grinders, milling machines or other suitable equipments to remove existing overlay completely in accordance with the requirements of Section 606. The depth of existing LMC varies throughout the project. It is estimated to be up to 3" on bridge 056B00214N (over Ohio River) and between 1 1/2" to 2" thick on all other bridges on this proposal.
2. Use Hydrodemolition equipment to remove all deteriorated, delaminated, and unsound concrete (See SPECIAL NOTE FOR USE OF HYDRODEMOLITION METHOD FOR BRIDGE DECK SURFACE PREPARATION) to provide a total surface preparation.
3. Use Class 'M' concrete on the total surface area to complete partial and full depth patching and to provide a rough-finish to a consistent grade 2" below the final grade. The contractor may elect to place concrete monolithically all at the same pour.
4. Place Asphalt Waterproofing Mix as specified in the SPECIAL NOTE FOR ASPHALT WATERPROOFING MIX POLYMER MODIFIED.

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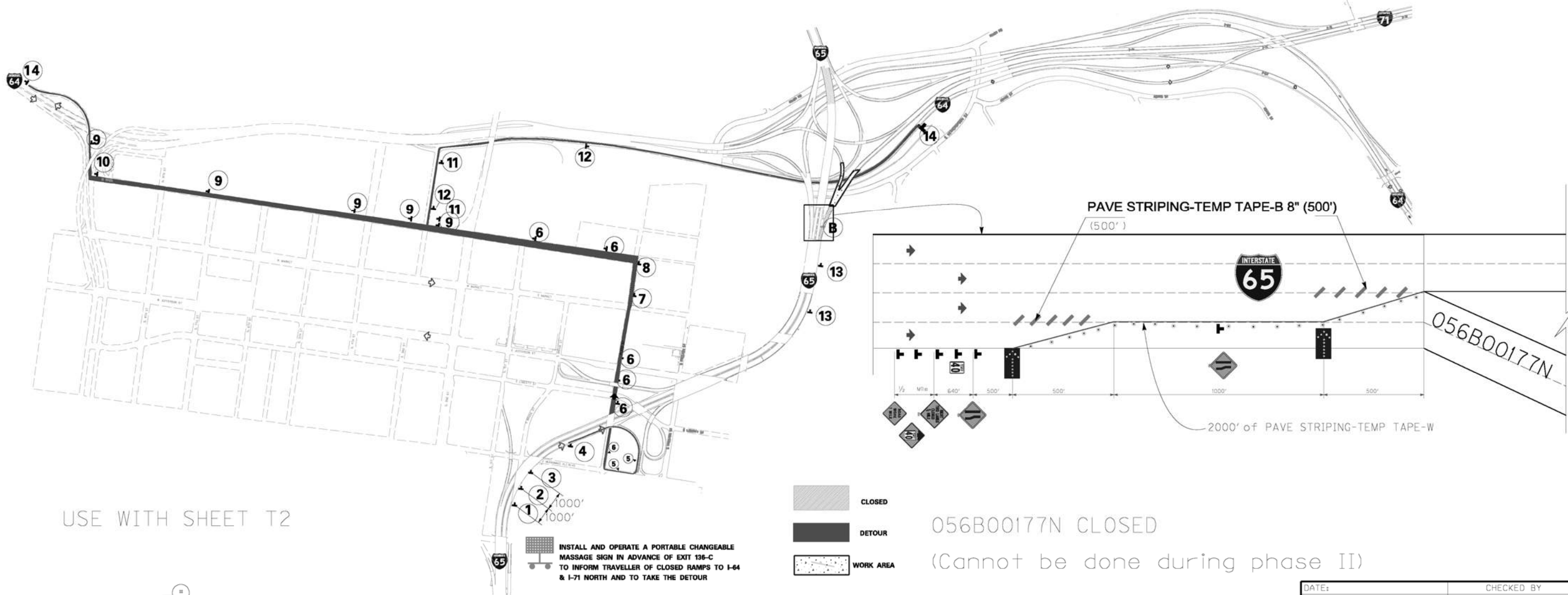
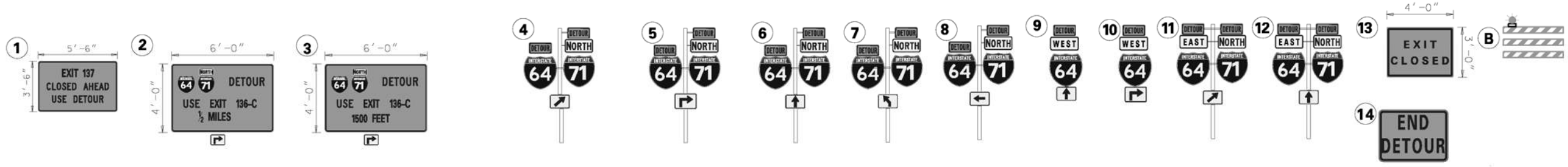
USER: Farhad.Abad  
DATE PLOTTED: 31-JAN-2012

E-SHEET NAME:

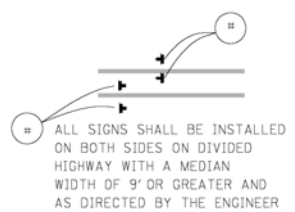
MicroStation v8.11.7.180

REVISION		DATE
DATE:	CHECKED BY	
DESIGNED BY: Farhad Abad		
DETAILED BY: Farhad Abad		
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>Jefferson</b>		
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>	
<b>DECK CONSTRUCTION SEQUENCE</b>		
ITEM NUMBER	PREPARED BY	SHEET NO.
<b>5-801.00</b>	<b>Division of Maintenance</b> <b>Bridge Preservation Branch</b>	<b>33</b>
		DRAWING NO.

# I-65 NORTH TO I-64 WEST & I-64 EAST CLOSED



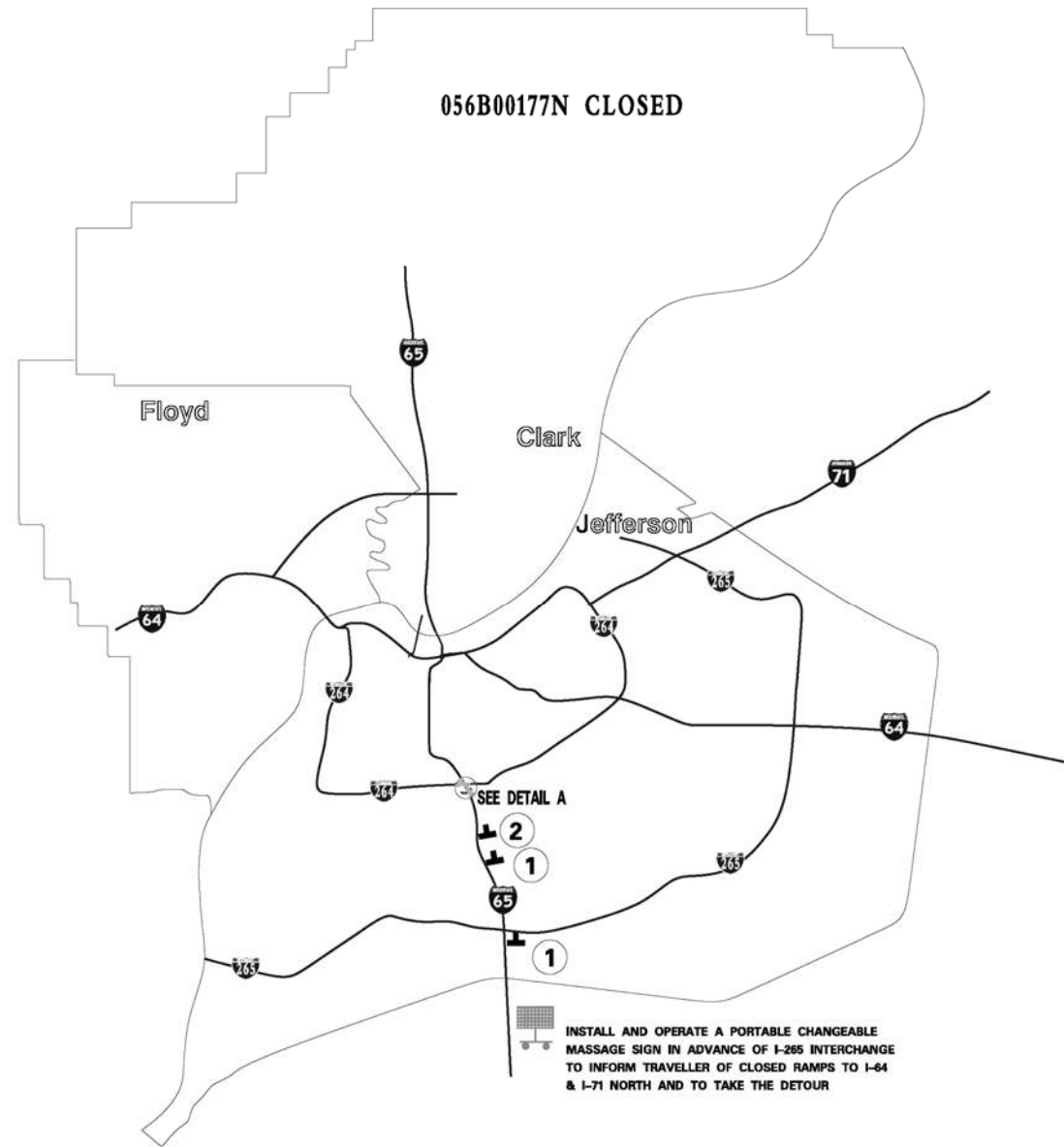
USE WITH SHEET T2



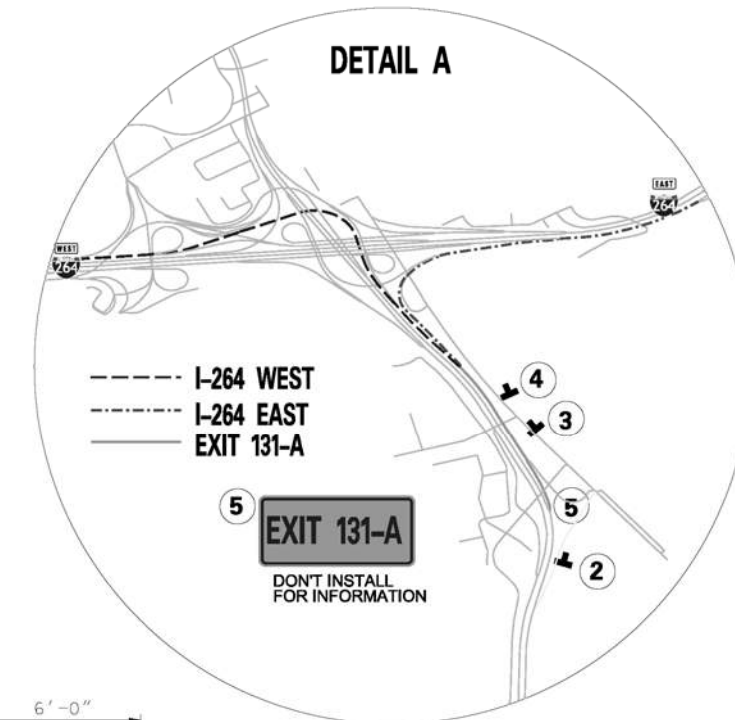
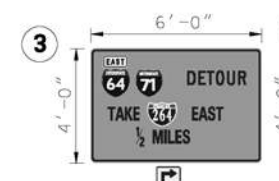
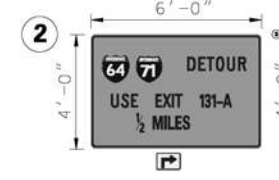
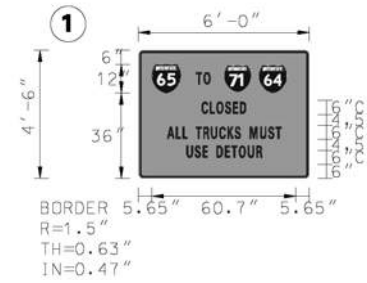
NOT TO SCALE

DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>MOT- Detour for ramp closure</b>	
ITEM NUMBER <b>5-801.00</b>	PREPARED BY <b>Division of Maintenance Bridge Preservation Branch</b>
	SHEET NO. <b>T1</b> DRAWING NO. <b>23792</b>





USE WITH SHEET T1



ALL SIGNS SHALL BE INSTALLED ON BOTH SIDES ON DIVIDED HIGHWAY WITH A MEDIAN WIDTH OF 9' OR GREATER AND AS DIRECTED BY THE ENGINEER

NOT TO SCALE

DATE:		CHECKED BY:
DESIGNED BY:		
DETAILED BY:		
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>Jefferson</b>		
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>	
<b>MOT-Detour Signs for ramp closure</b>		
ITEM NUMBER	PREPARED BY	SHEET NO.
<b>5-801.00</b>	<b>Division of Maintenance</b>	<b>T2</b>
	<b>Bridge Preservation Branch</b>	DRAWING NO. <b>23792</b>

USE WITH SHEET T5

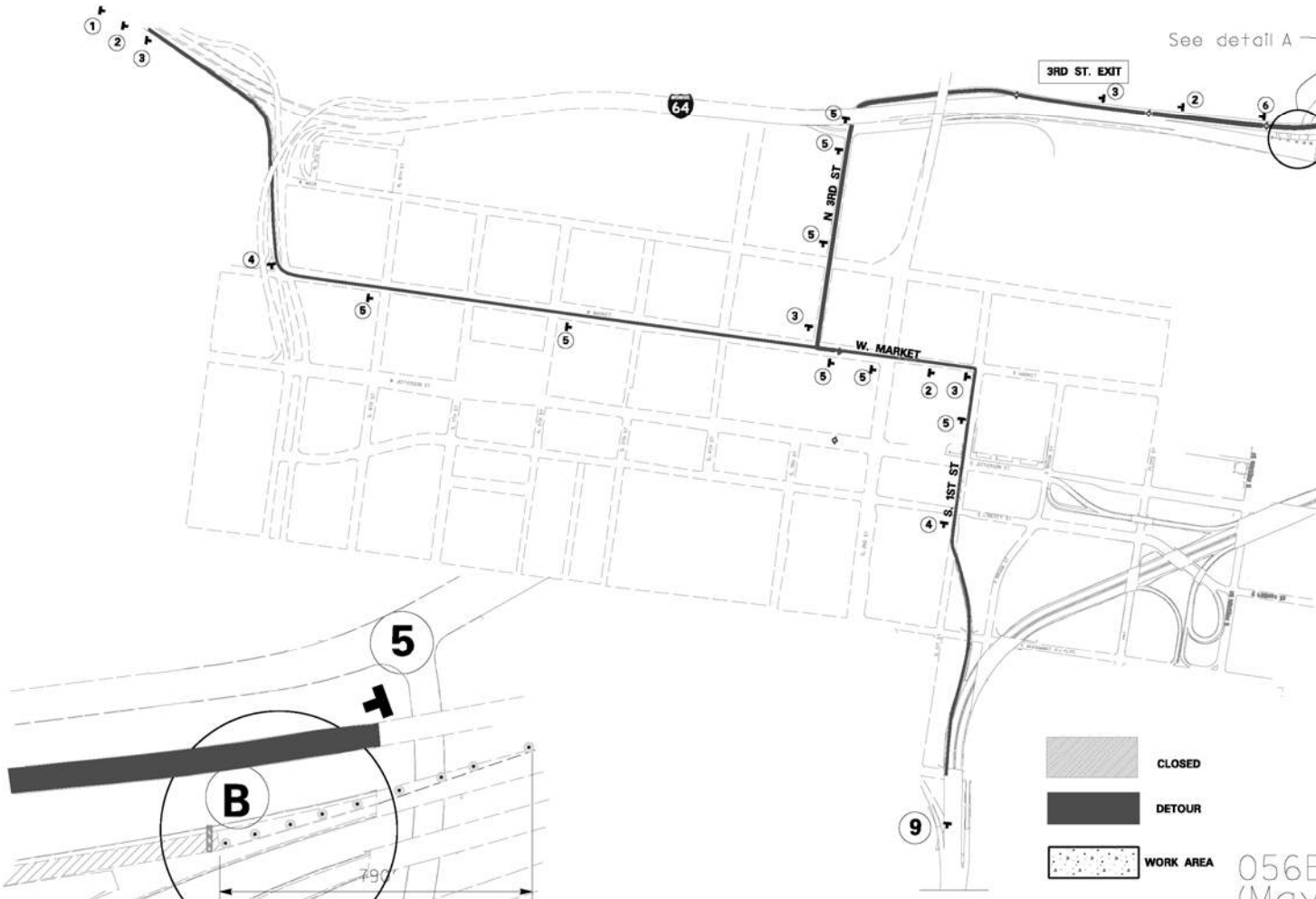
I-71 SOUTH TO I-65 SOUTH  
I-64 EAST TO I-65 SOUTH  
I-64 WEST TO I-65 SOUTH



INSTALL AND OPERATE A PORTABLE CHANGEABLE MESSAGE SIGN IN ADVANCE OF 8TH STREET EXIT TO INFORM TRAVELLER OF CLOSED RAMPS TO I-65 SOUTH AND TO TAKE THE DETOUR

INSTALL AND OPERATE A PORTABLE CHANGEABLE MESSAGE SIGN IN ADVANCE OF I-71 SPLIT TO INFORM TRAVELLER OF CLOSED RAMPS TO I-65 SOUTH AND TO TAKE THE DETOUR

INSTALL AND OPERATE A PORTABLE CHANGEABLE MESSAGE SIGN IN ADVANCE OF I-64 SPLIT TO INFORM TRAVELLER OF CLOSED RAMPS TO I-65 SOUTH AND TO TAKE THE DETOUR



See detail B

See detail A

1/2 Mile

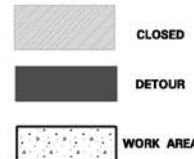
600'

### DETAIL A

560' PAVE STRIPING-TEMP REM TAPE-W  
NO BLACK STRIPING TAPE NEEDED

Use Drums with Warning Lights.  
25' Max spacing

ALL SIGNS SHALL BE INSTALLED ON BOTH SIDES ON DIVIDED HIGHWAY WITH A MEDIAN WIDTH OF 9' OR GREATER AND AS DIRECTED BY THE ENGINEER



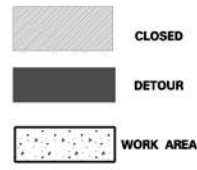
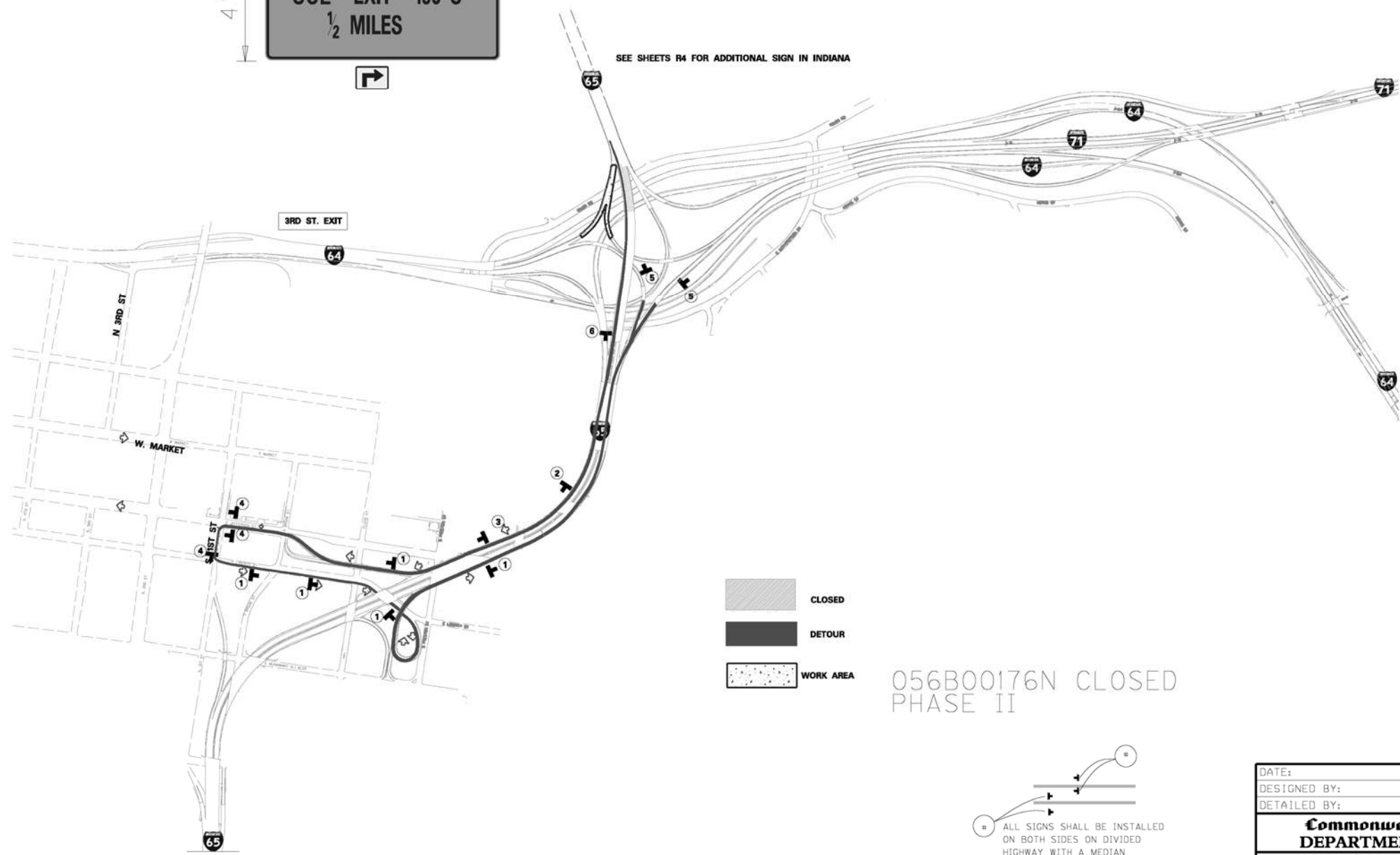
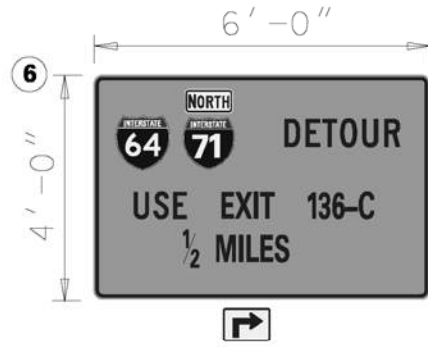
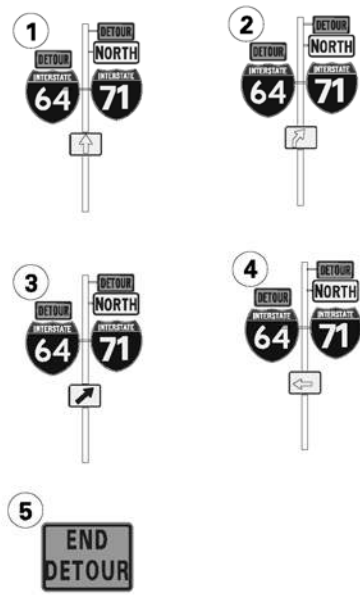
056B00178N CLOSED  
(May not be completed with 056B00177N at the same time)

NOT TO SCALE

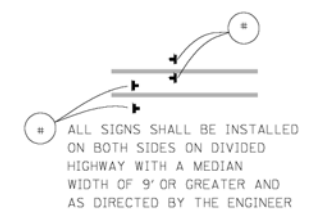
### DETAIL B

See Sheet T1 for "Double Lane Closure" Signs, Arrow Panels. Use similar Drums and arrangements as specified for Detail A

DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>MOT-Detour for ramp closure</b>	
ITEM NUMBER <b>5-801.00</b>	PREPARED BY <b>Division of Maintenance Bridge Preservation Branch</b>
	SHEET NO. <b>T3</b> DRAWING NO. <b>23792</b>



056B00176N CLOSED PHASE II



USE WITH SHEET T5

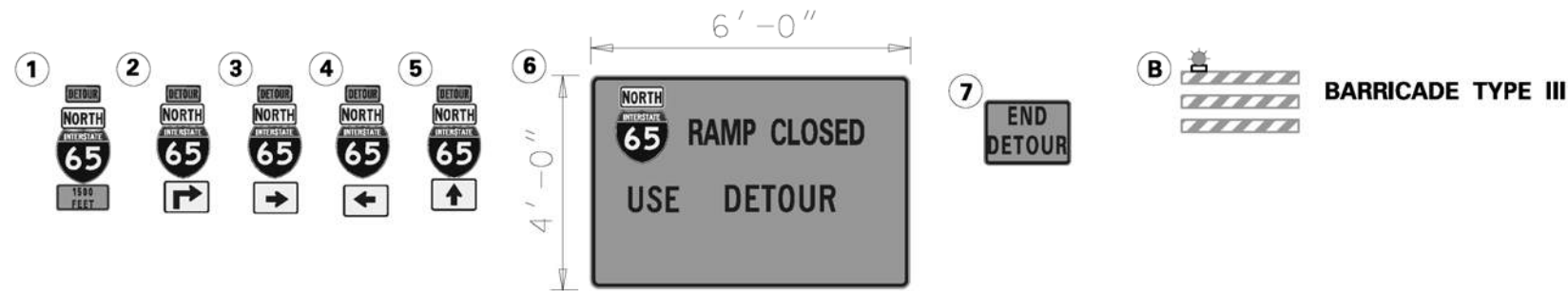
NOT TO SCALE

ITEM NUMBER	5-801.00
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DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>MOT-Detour for ramp closure</b>	
PREPARED BY <b>Division of Maintenance Bridge Preservation Branch</b>	SHEET NO. <b>T4</b> DRAWING NO. <b>23792</b>

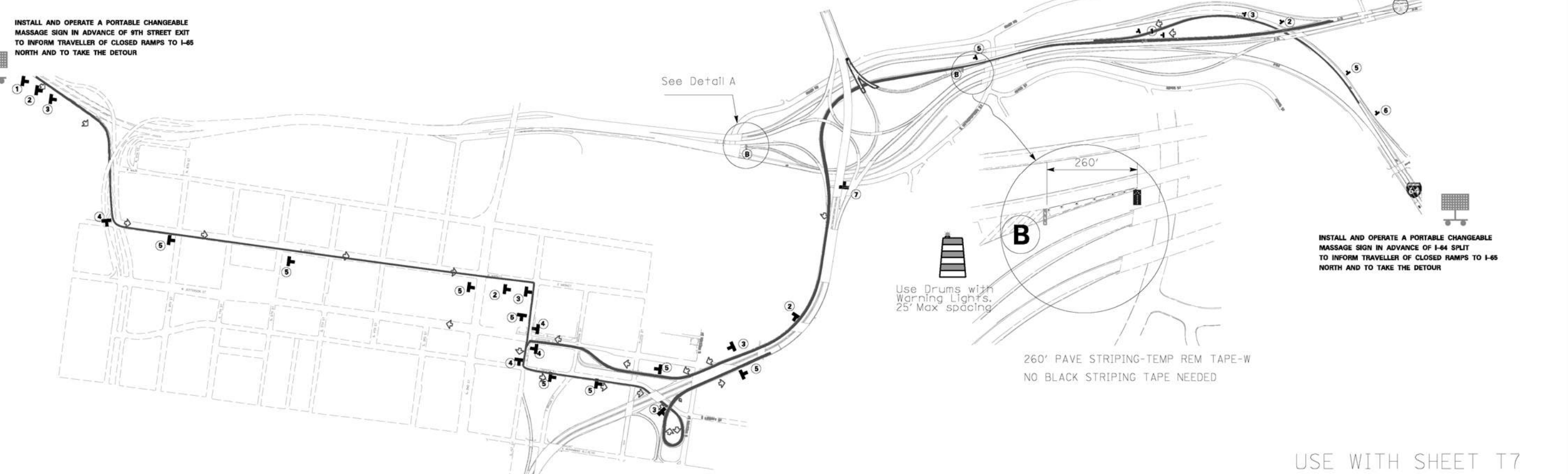


# I-64 WEST TO I-65 NORTH, I-64 EAST TO I-65 NORTH AND I-71 SOUTH TO I-65 NORTH CLOSED



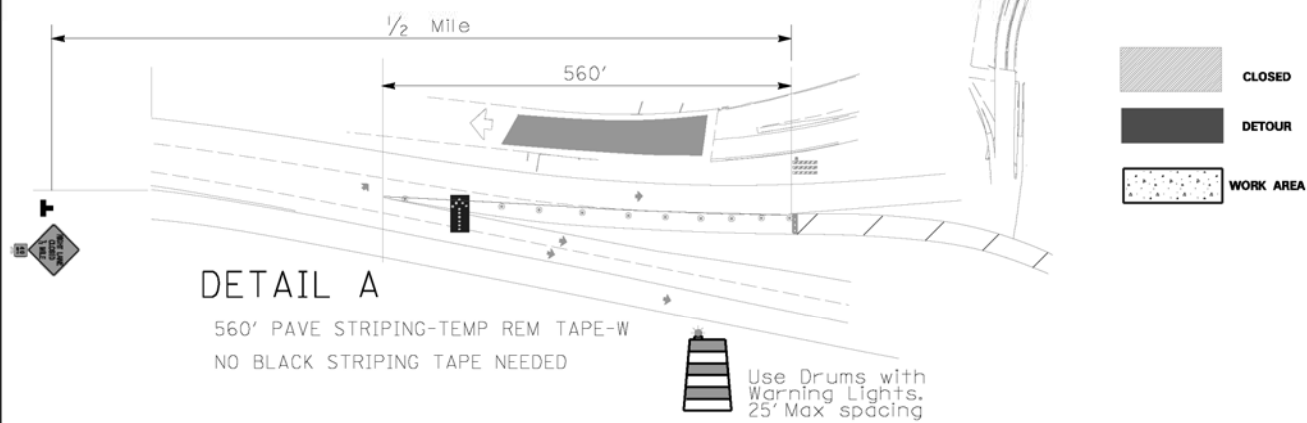
INSTALL AND OPERATE A PORTABLE CHANGEABLE MESSAGE SIGN IN ADVANCE OF I-71 SPLIT TO INFORM TRAVELLER OF CLOSED RAMPS TO I-65 NORTH AND TO TAKE THE DETOUR

INSTALL AND OPERATE A PORTABLE CHANGEABLE MESSAGE SIGN IN ADVANCE OF 9TH STREET EXIT TO INFORM TRAVELLER OF CLOSED RAMPS TO I-65 NORTH AND TO TAKE THE DETOUR



INSTALL AND OPERATE A PORTABLE CHANGEABLE MESSAGE SIGN IN ADVANCE OF I-64 SPLIT TO INFORM TRAVELLER OF CLOSED RAMPS TO I-65 NORTH AND TO TAKE THE DETOUR

USE WITH SHEET T7



056B00202N CLOSED  
PHASE II (EB I-64 TO NB I-65)  
AND  
PHASE III (WB I-64 TO NB I-65)

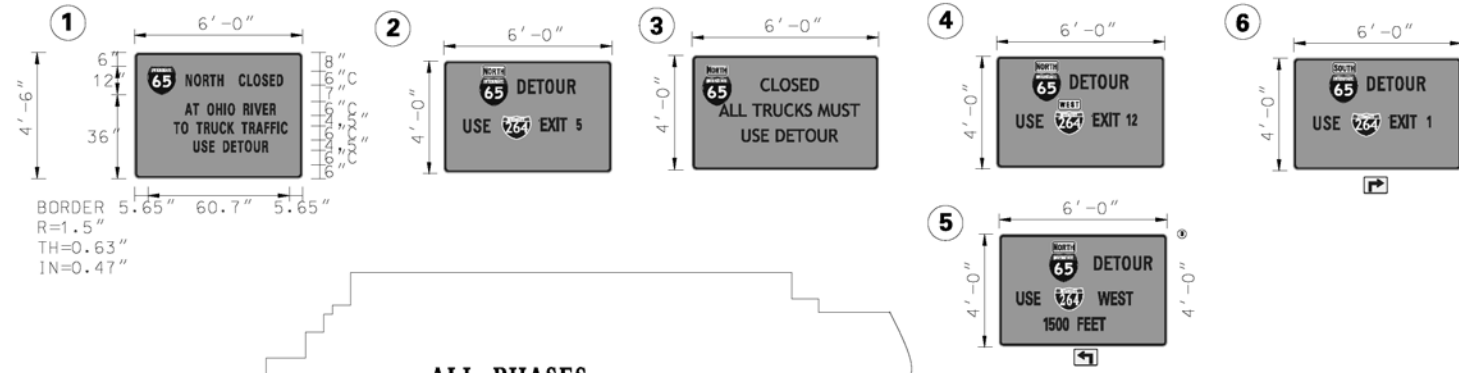
ALL SIGNS SHALL BE INSTALLED ON BOTH SIDES ON DIVIDED HIGHWAY WITH A MEDIAN WIDTH OF 9' OR GREATER AND AS DIRECTED BY THE ENGINEER

NOT TO SCALE

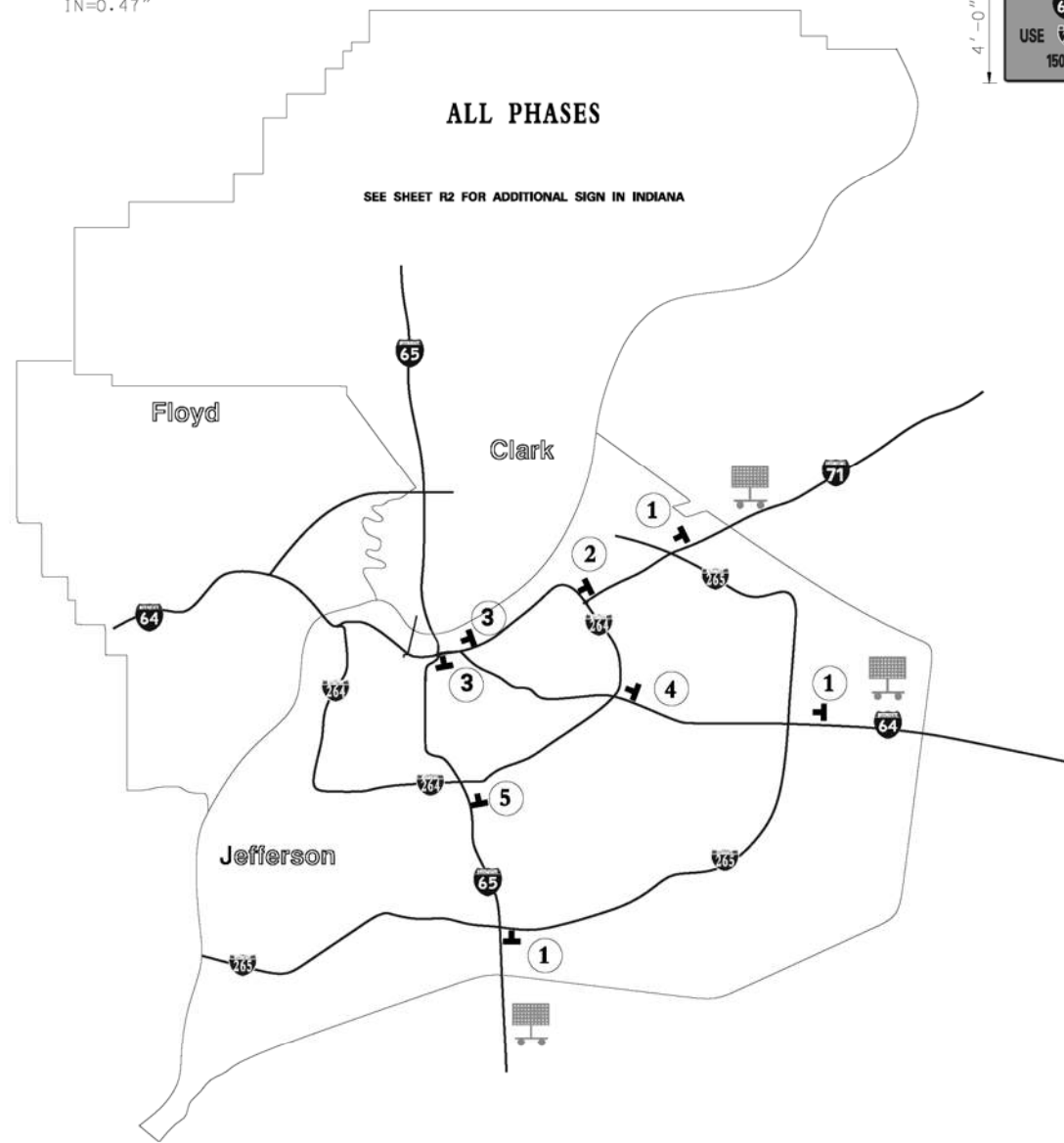
ITEM NUMBER	5-801.00
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DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>MOT-Detour for ramp closure</b>	
PREPARED BY <b>Division of Maintenance Bridge Preservation Branch</b>	SHEET NO. <b>T6</b> DRAWING NO. <b>23792</b>



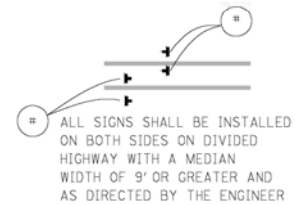


BORDER 5.65" 60.7" 5.65"  
 R=1.5"  
 TH=0.63"  
 IN=0.47"

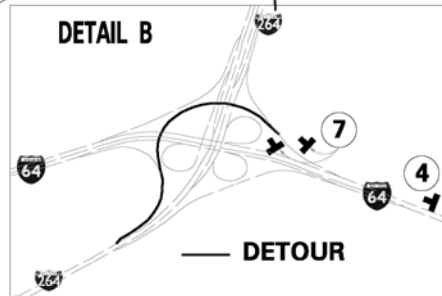
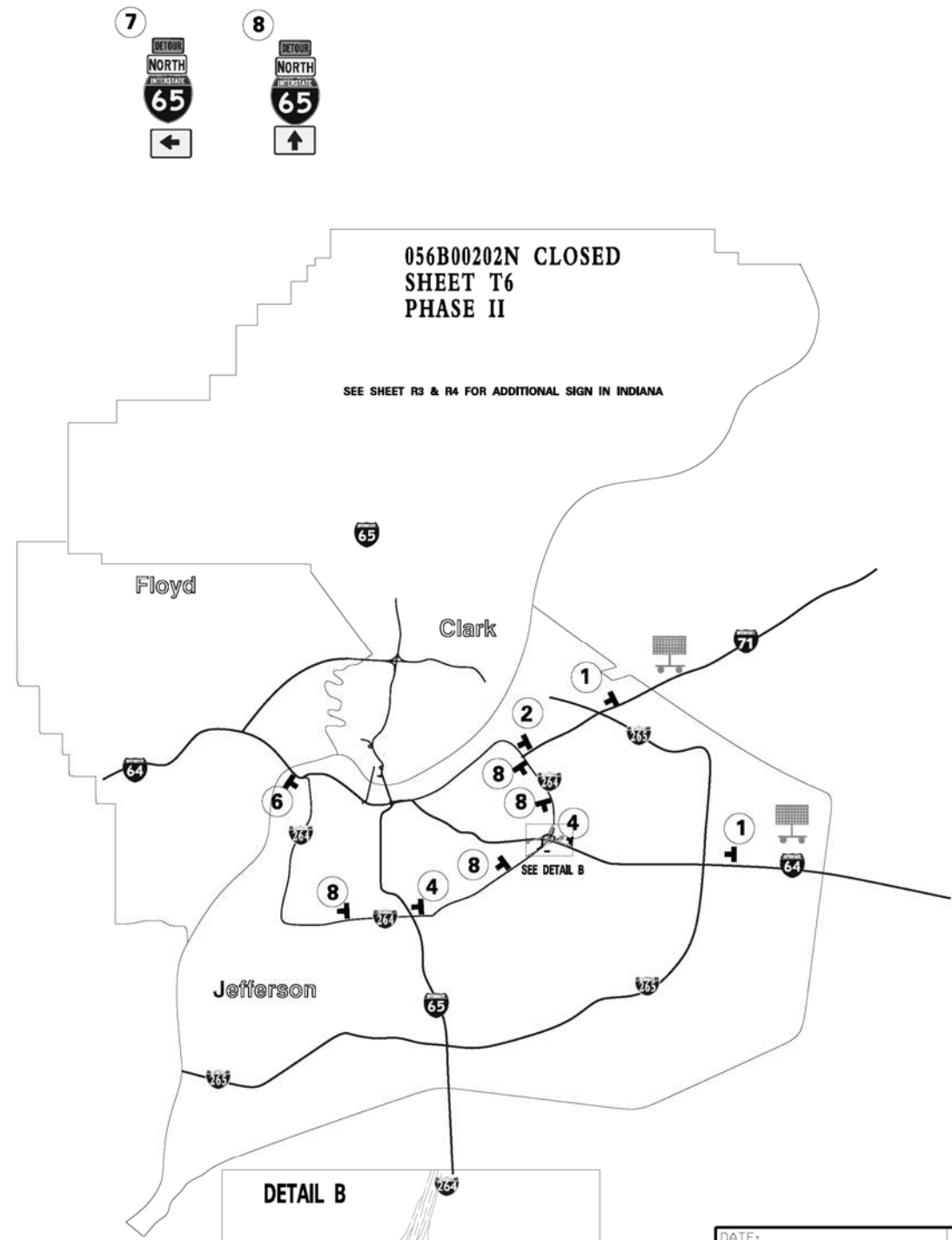


INSTALL AND OPERATE "PORTABLE CHANGEABLE MESSAGE SIGNS" IN ADVANCE OF DETOUR, AT LOCATIONS SPECIFIED BY THE ENGINEER (LOCATIONS SHOWN HERE ARE APPROXIMATE) TO INFORM TRAVELLER OF CONSTRUCTION AHEAD, CLOSED RAMPS, AND DETOURS TO BE TAKEN. ALL MESSAGES SHALL BE APPROVED BY THE ENGINEER AND MEET KYTC AND MUTCD STANDARDS.

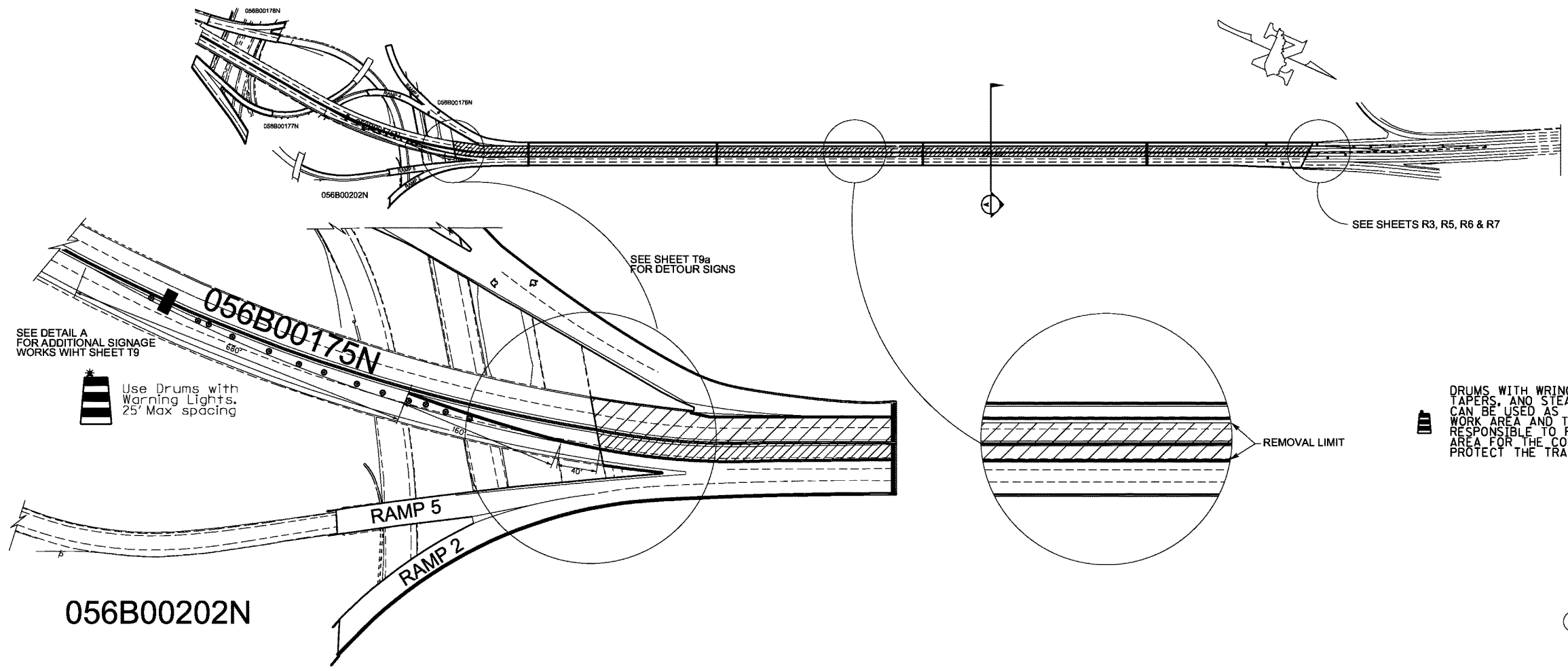
FOR MORE INFORMATION VISIT: <http://www.fhwa.dot.gov/publications/research/infrastructure/pavements/tpp/reports/03066/>



NOT TO SCALE



DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>MOT-Detour signs</b>	
ITEM NUMBER <b>5-801.00</b>	PREPARED BY <b>Division of Maintenance Bridge Preservation Branch</b>
	SHEET NO. <b>T7</b> DRAWING NO. <b>23792</b>



SEE DETAIL A FOR ADDITIONAL SIGNAGE WORKS WITH SHEET T9

Use Drums with Warning Lights, 25' Max spacing

SEE SHEET T9a FOR DETOUR SIGNS

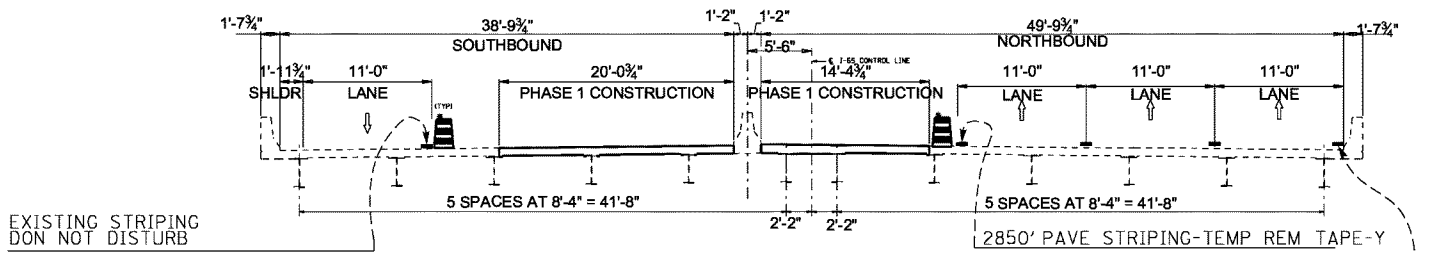
SEE SHEETS R3, R5, R6 & R7

DRUMS WITH WRINGING LIGHTS (FLASHING ON TAPERS AND STEADY-BURN ELSEWHERE) CAN BE USED AS TEMP. BARRIERS SEPARATING WORK AREA AND TRAFFIC. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A SAFE WORKING AREA FOR THE CONSTRUCTION WORKERS AND ALSO PROTECT THE TRAVELING PUBLIC FROM CONSTRUCTION

ALL SIGNS SHALL BE INSTALLED ON BOTH SIDES ON DIVIDED HIGHWAY WITH A MEDIAN WIDTH OF 9' OR GREATER AND AS DIRECTED BY THE ENGINEER

056B00202N

4 X 2850' PAVEMENT STRIPING REMOVAL-6 IN



EXISTING STRIPING DON NOT DISTURB

# SECTION A

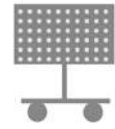
NOT TO SCALE

- TEMP. BARRIERS
- WORK AREA
- CHANNELIZING DEVICES
- TRUCK MOUNTED ATTENUATOR

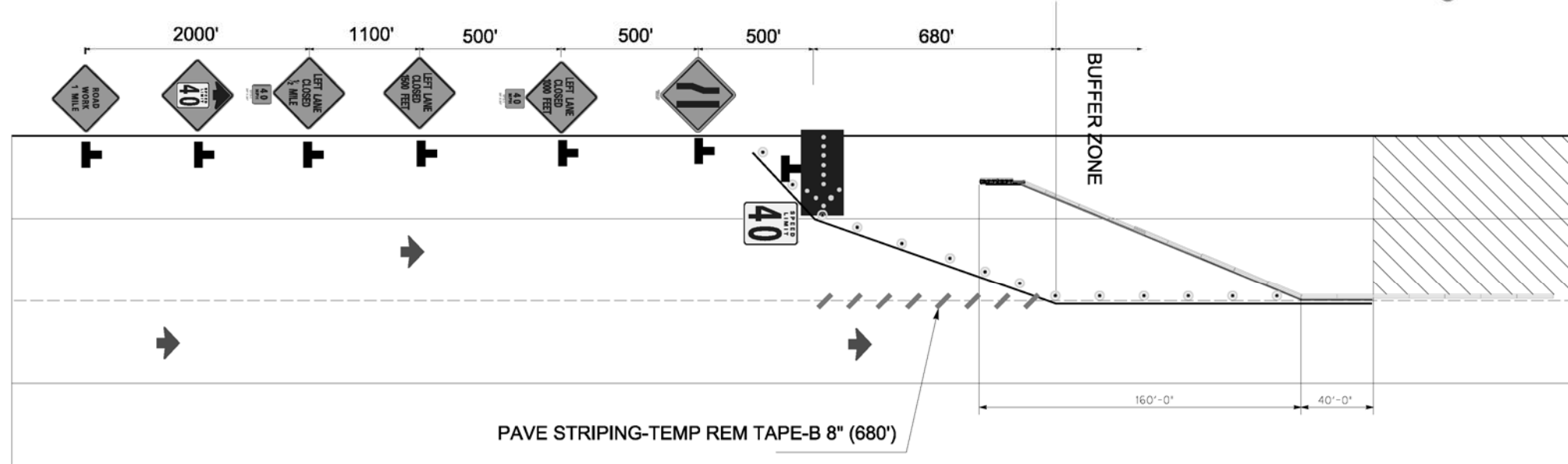
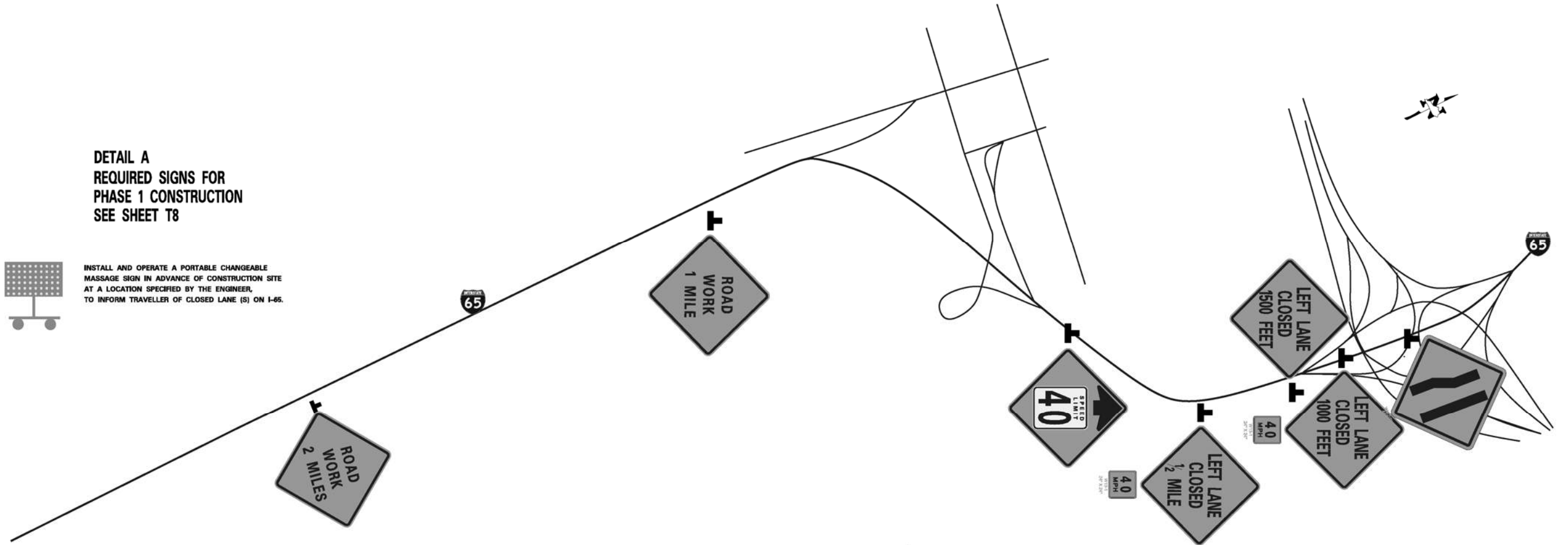
DATE:		CHECKED BY:	
DESIGNED BY:			
DETAILED BY:			
<b>Commonwealth of Kentucky</b>			
<b>DEPARTMENT OF HIGHWAYS</b>			
COUNTY			
<b>Jefferson</b>			
ROUTE	CROSSING		
<b>I-65</b>	<b>Ohio River</b>		
<b>MOT- Phase I</b>			
PREPARED BY		SHEET NO.	
<b>Division of Maintenance</b>		<b>T8</b>	
<b>Bridge Preservation Branch</b>		DRAWING NO.	
		<b>23792</b>	

ITEM NUMBER
<b>5-801.00</b>

**DETAIL A  
REQUIRED SIGNS FOR  
PHASE 1 CONSTRUCTION  
SEE SHEET T8**



INSTALL AND OPERATE A PORTABLE CHANGEABLE MESSAGE SIGN IN ADVANCE OF CONSTRUCTION SITE AT A LOCATION SPECIFIED BY THE ENGINEER, TO INFORM TRAVELLER OF CLOSED LANE (S) ON I-65.



PAVE STRIPING-TEMP REM TAPE-B 8" (680')

Use Drums with Warning Lights. 25' Max spacing

- TEMP. BARRIERS
- WORK AREA
- TEMP. CRASH CUSHION
- CHANNELIZING DEVICES
- TRUCK MOUNTED ATTENUATOR
- COVERED SKIP LINES

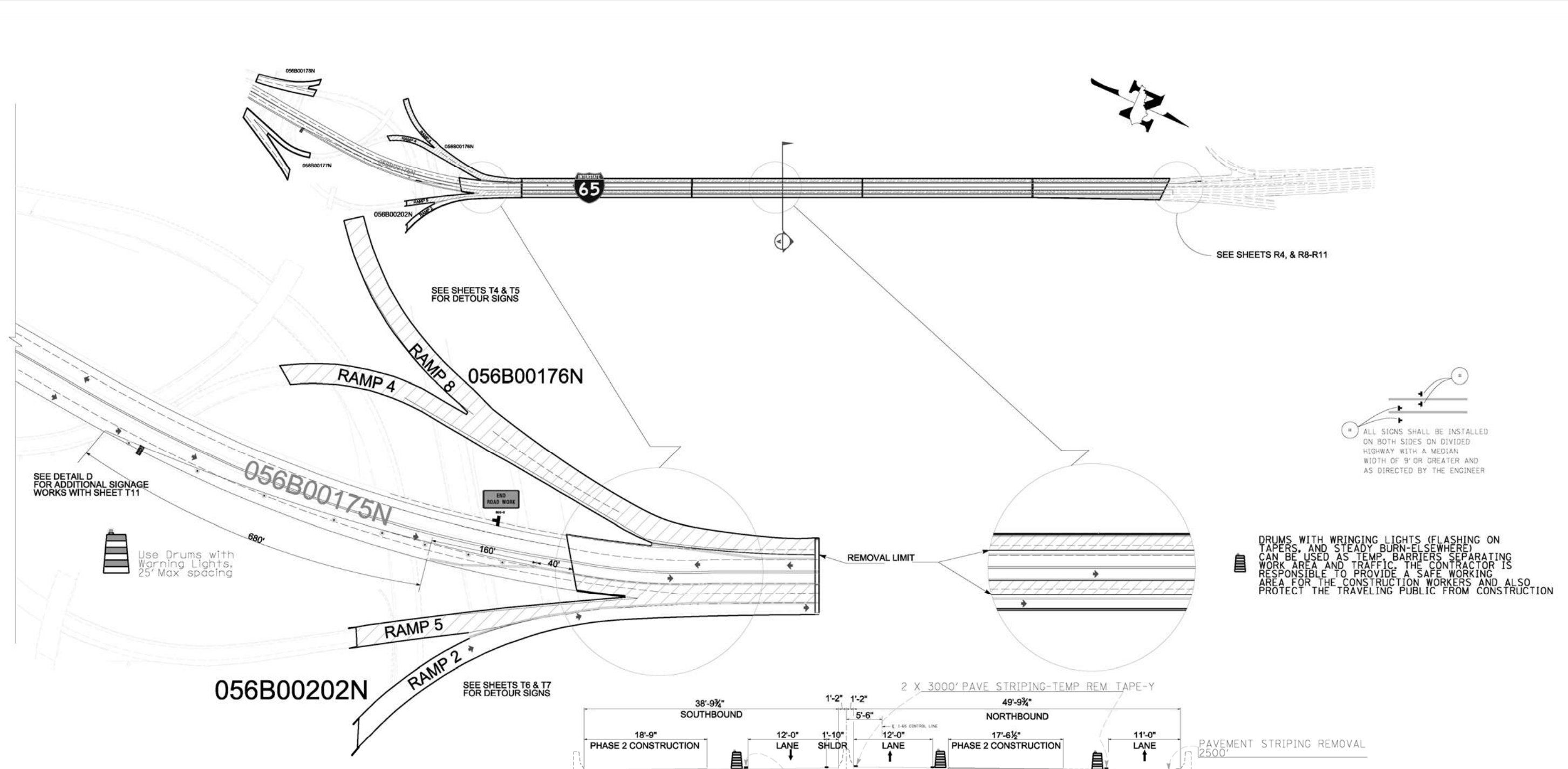
ALL SIGNS SHALL BE INSTALLED ON BOTH SIDES ON DIVIDED HIGHWAY WITH A MEDIAN WIDTH OF 9' OR GREATER AND AS DIRECTED BY THE ENGINEER

NOT TO SCALE

DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>MOT - Phase I Cont'd</b>	
PREPARED BY <b>Division of Maintenance</b>	SHEET NO. <b>T9</b>
<b>Bridge Preservation Branch</b>	DRAWING NO. <b>23792</b>

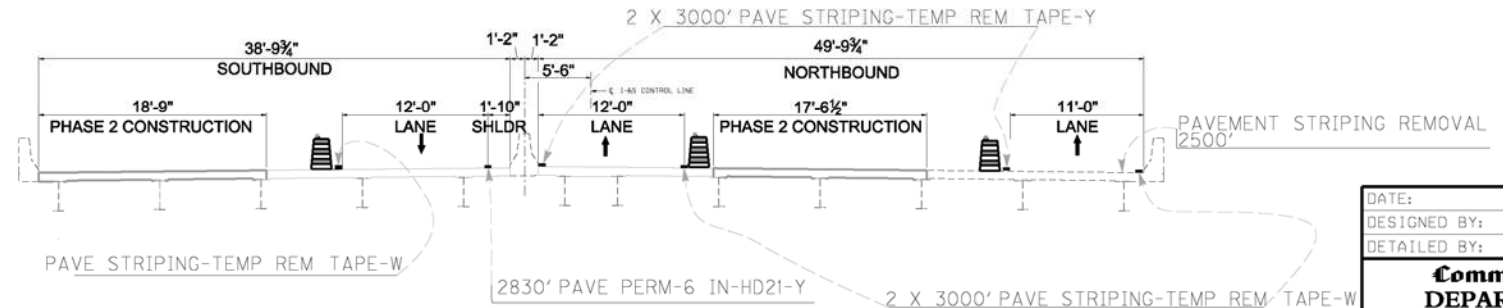
<b>ITEM NUMBER</b>
<b>5-801.00</b>





ALL SIGNS SHALL BE INSTALLED ON BOTH SIDES ON DIVIDED HIGHWAY WITH A MEDIAN WIDTH OF 9' OR GREATER AND AS DIRECTED BY THE ENGINEER

DRUMS WITH WRINGING LIGHTS (FLASHING ON TAPERS, AND STEADY BURN-ELSEWHERE) CAN BE USED AS TEMP. BARRIERS SEPARATING WORK AREA AND TRAFFIC. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A SAFE WORKING AREA FOR THE CONSTRUCTION WORKERS AND ALSO PROTECT THE TRAVELING PUBLIC FROM CONSTRUCTION



- TEMP. BARRIERS SERRATING WORK AREA AND TRAFFIC
- WORK AREA
- TEMP. CRASH CUSHION
- CHANNALIZING DEVICES
- TRUCK MOUNTED ATTENUATOR

# SECTION A

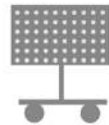
NOT TO SCALE

ITEM NUMBER	5-801.00
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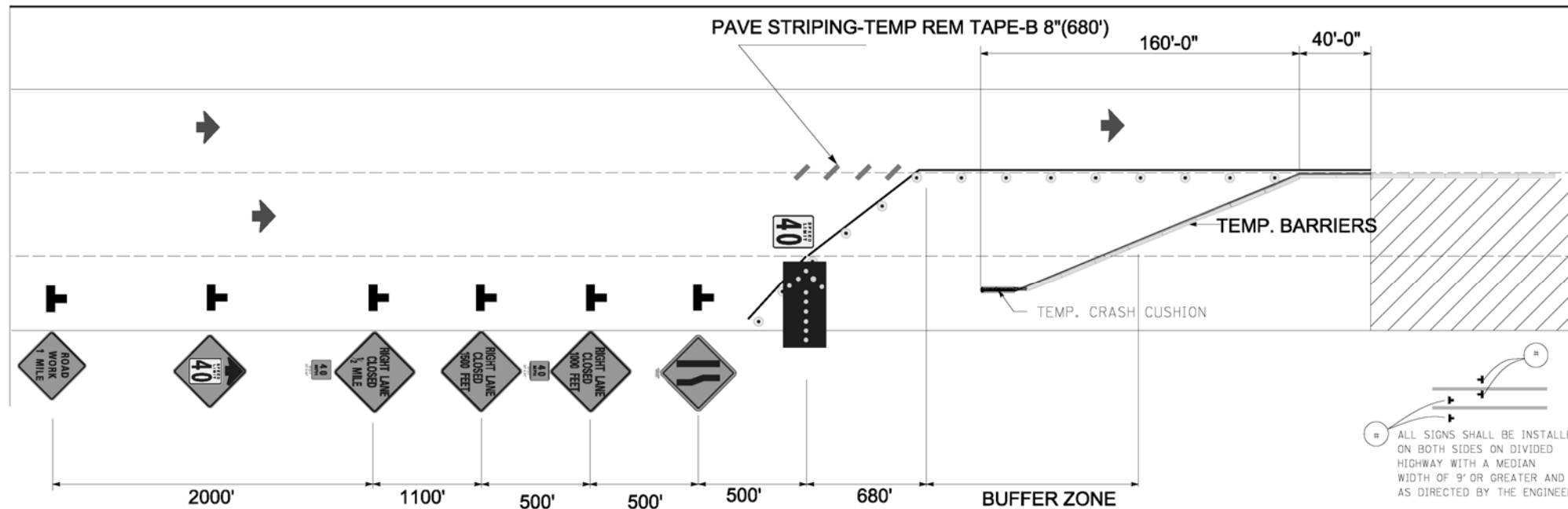
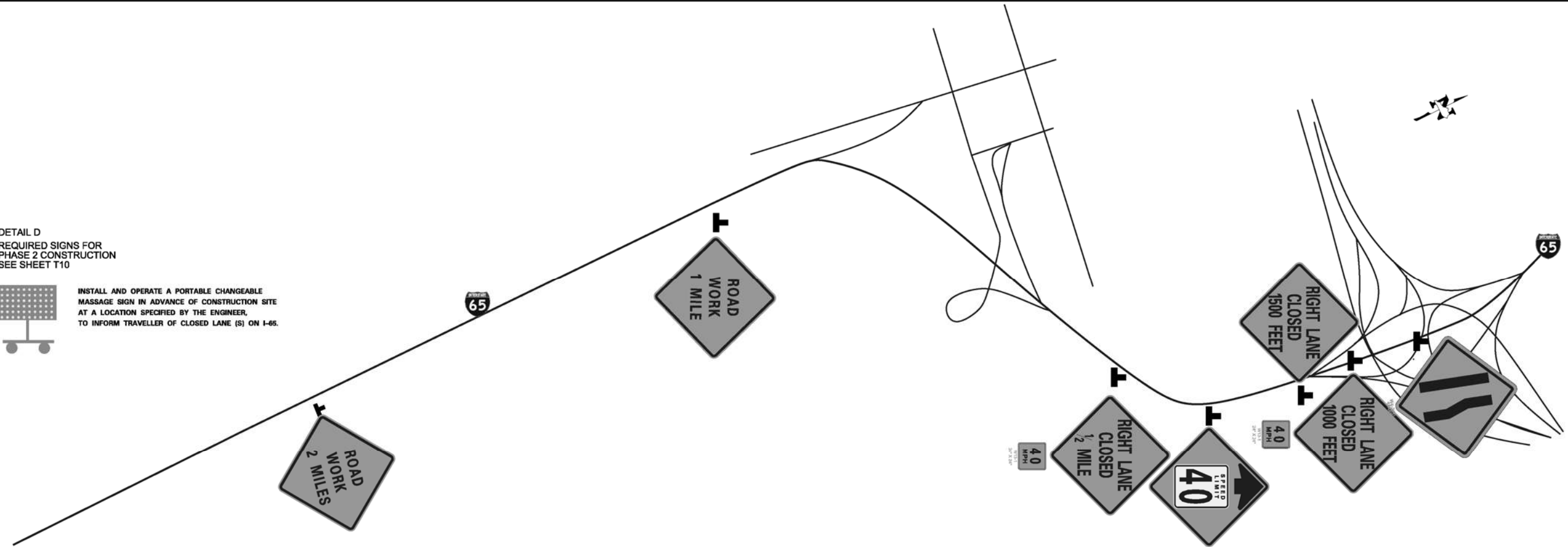
DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>MOT - Phase II</b>	
PREPARED BY <b>Division of Maintenance</b>	SHEET NO. <b>T10</b>
<b>Bridge Preservation Branch</b>	DRAWING NO. <b>23792</b>



DETAIL D  
 REQUIRED SIGNS FOR  
 PHASE 2 CONSTRUCTION  
 SEE SHEET T10



INSTALL AND OPERATE A PORTABLE CHANGEABLE MESSAGE SIGN IN ADVANCE OF CONSTRUCTION SITE AT A LOCATION SPECIFIED BY THE ENGINEER, TO INFORM TRAVELLER OF CLOSED LANE (S) ON I-65.



- TEMP. BARRIERS
- WORK AREA
- TEMP. CRASH CUSHION
- CHANNALIZING DEVICES
- TRUCK MOUNTED ATTENUATOR
- COVERED SKIP LINES

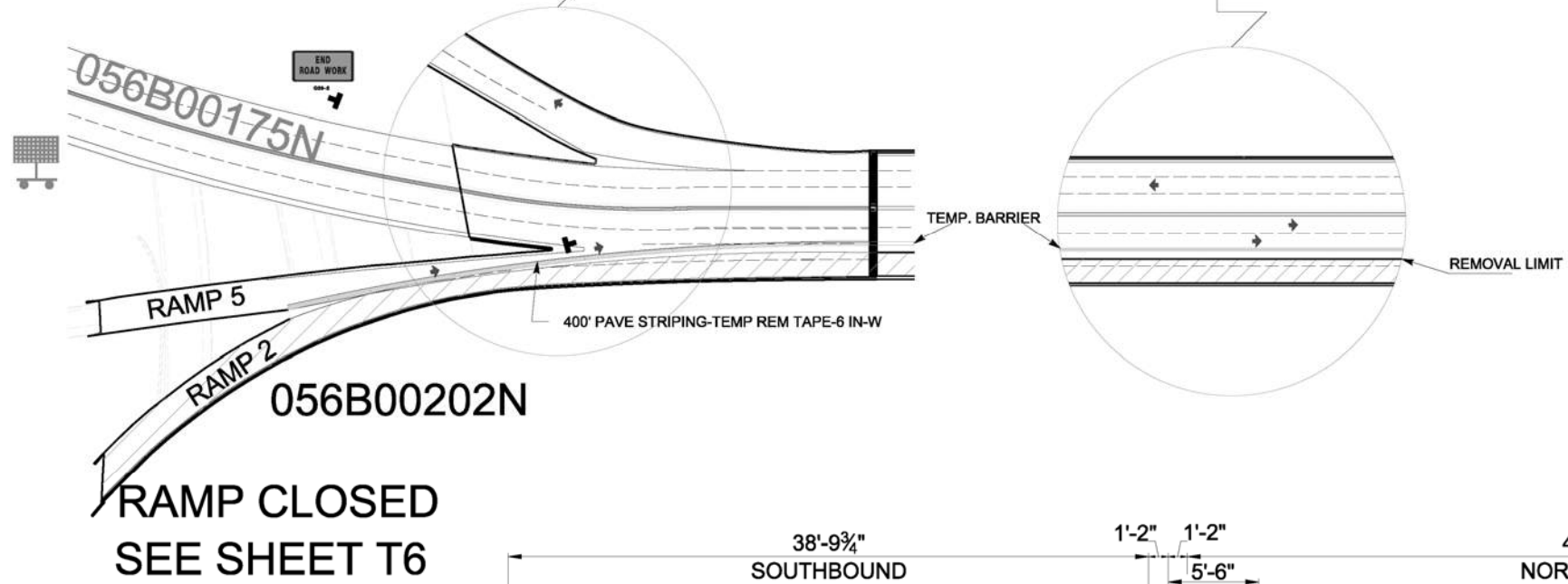
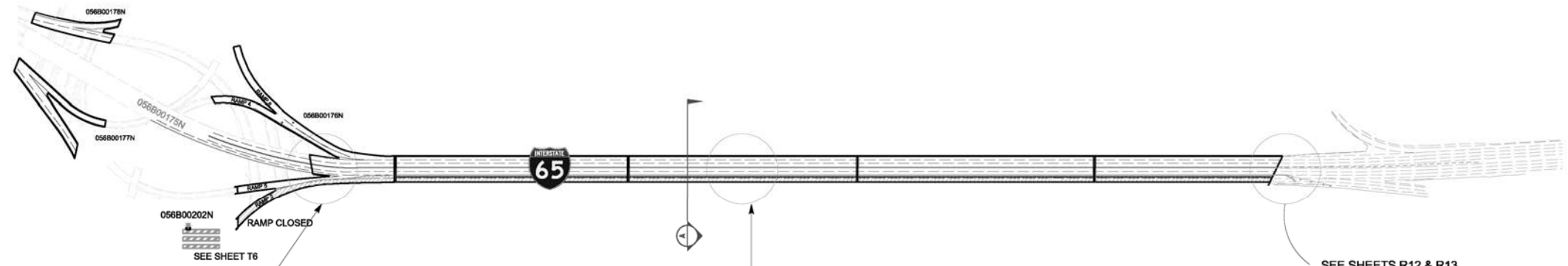
ALL SIGNS SHALL BE INSTALLED ON BOTH SIDES ON DIVIDED HIGHWAY WITH A MEDIAN WIDTH OF 9' OR GREATER AND AS DIRECTED BY THE ENGINEER

NOT TO SCALE

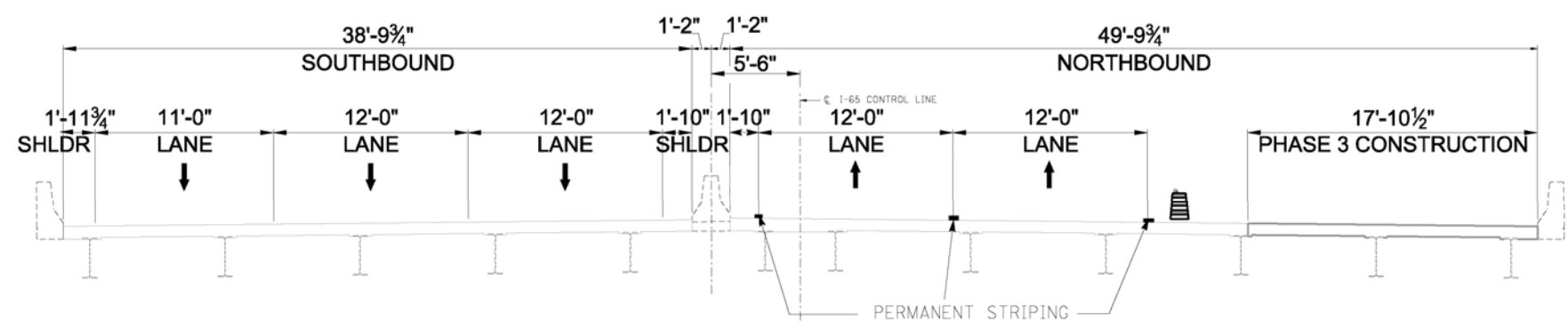
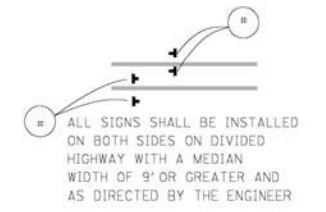
Use Drums with Warning Lights. 25' Max spacing

DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>MOT- Phase II Cont'd</b>	
PREPARED BY <b>Division of Maintenance</b>	SHEET NO. <b>T11</b>
<b>Bridge Preservation Branch</b>	DRAWING NO. <b>23792</b>

ITEM NUMBER
5-801.00



DRUMS WITH WRINGING LIGHTS (FLASHING ON TAPERS, AND STEADY BURN-ELSEWHERE) CAN BE USED AS TEMP. BARRIERS SEPARATING WORK AREA AND TRAFFIC. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A SAFE WORKING AREA FOR THE CONSTRUCTION WORKERS AND ALSO PROTECT THE TRAVELING PUBLIC FROM CONSTRUCTION



Waterfilled Barrier

- TEMP. BARRIERS
- WORK AREA
- CHANNALIZING DEVICES
- TRUCK MOUNTED ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN

# SECTION A

NOT TO SCALE

DATE:	CHECKED BY:
DESIGNED BY:	
DETAILED BY:	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>	
COUNTY <b>Jefferson</b>	
ROUTE <b>I-65</b>	CROSSING <b>Ohio River</b>
<b>MOT - Phase III</b>	
ITEM NUMBER <b>5-801.00</b>	PREPARED BY <b>Division of Maintenance Bridge Preservation Branch</b>
	SHEET NO. <b>T12</b> DRAWING NO. <b>23792</b>



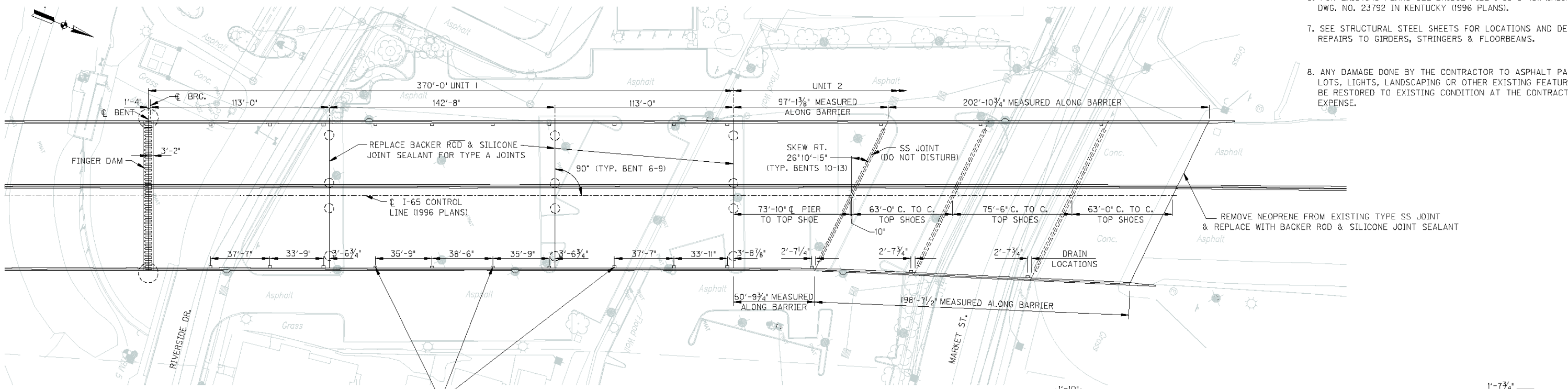
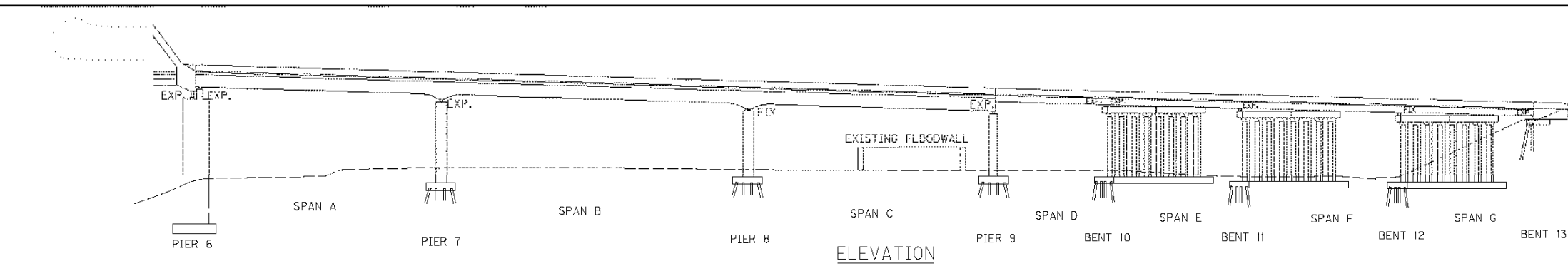
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SHEET LOCATION: FILE NAME: g:\engr\hbd\73\bridges\cccd\emplar20.dgn

NOTES:

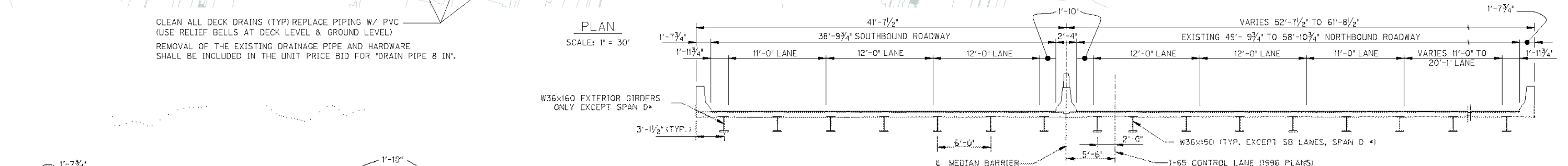
- CLEAN EXISTING UNDERGROUND DRAIN PIPE SYSTEM AT PIER 7 AND BENTS 11, & 12.
- FULL DEPTH PATCHING ASSUMED AT 5% OF DECK AREA. PARTIAL DEPTH PATCHING ASSUMED AT 10% OF DECK AREA.
- APPLY ASPHALT WATER-PROOFING MIX OVERLAY TO ENTIRE DECK. THE EXISTING OVERLAY SHALL BE REMOVED. NEW OVERLAY SHALL BE THE SAME THICKNESS AS THE EXISTING.
- REPAIR CONCRETE MASONRY ON SPALLED AREAS OF PIERS AND BENTS. USE EPOXY INJECTION TO REPAIR CRACKS AS NEEDED.
- USE 45° ELBOWS TO DISCHARGE STORMWATER ONTO PARKING PAVEMENT AT PIERS 8, 9 AND BENT 10.
- FOR EXISTING PLANS SEE BRIDGE FILE I-65-0-4811 (INDIANA) AND DWG. NO. 23792 IN KENTUCKY (1996 PLANS).
- SEE STRUCTURAL STEEL SHEETS FOR LOCATIONS AND DETAILS OF REPAIRS TO GIRDERS, STRINGERS & FLOORBEAMS.
- ANY DAMAGE DONE BY THE CONTRACTOR TO ASPHALT PARKING LOTS, LIGHTS, LANDSCAPING OR OTHER EXISTING FEATURES SHALL BE RESTORED TO EXISTING CONDITION AT THE CONTRACTORS' EXPENSE.



CLEAN ALL DECK DRAINS (TYP) REPLACE PIPING W/ PVC (USE RELIEF BELLS AT DECK LEVEL & GROUND LEVEL)  
 REMOVAL OF THE EXISTING DRAINAGE PIPE AND HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR \*DRAIN PIPE 8 IN\*.

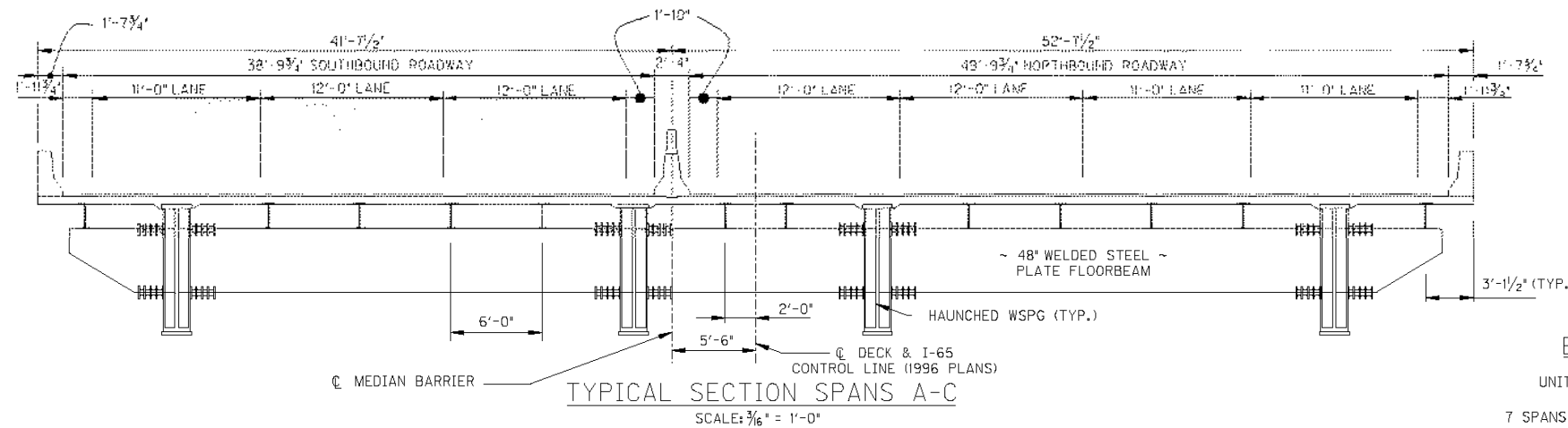
PLAN  
 SCALE: 1" = 30'

W36x160 EXTERIOR GIRDERS ONLY EXCEPT SPAN D



TYPICAL SECTION SPANS D-G  
 SCALE: 3/16" = 1'-0"

NOTE: + 42" WELDED STEEL PLATE GIRDER UNDER SB LANES, SPAN D.



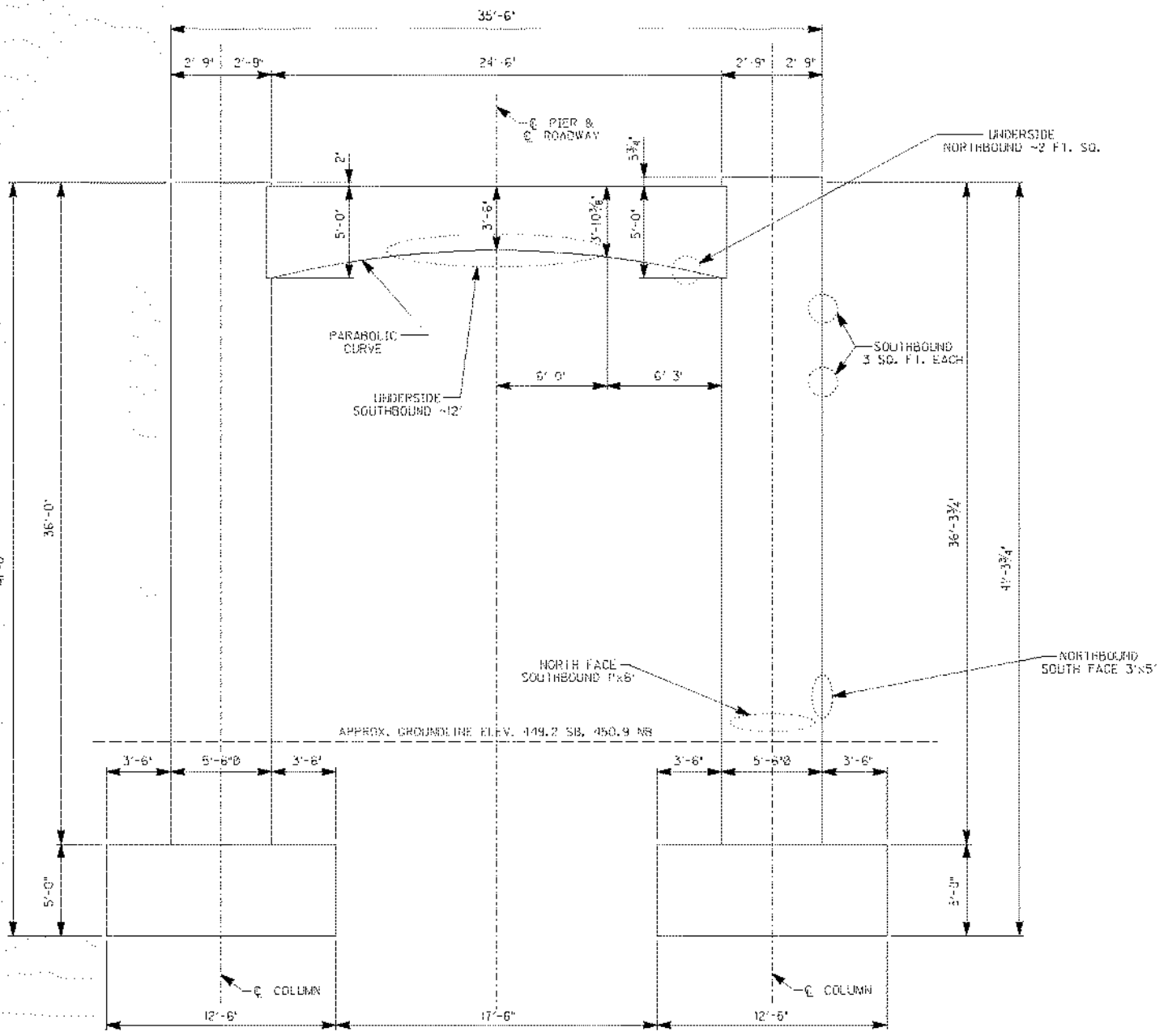
TYPICAL SECTION SPANS A-C  
 SCALE: 3/16" = 1'-0"

EXISTING STRUCTURE DATA

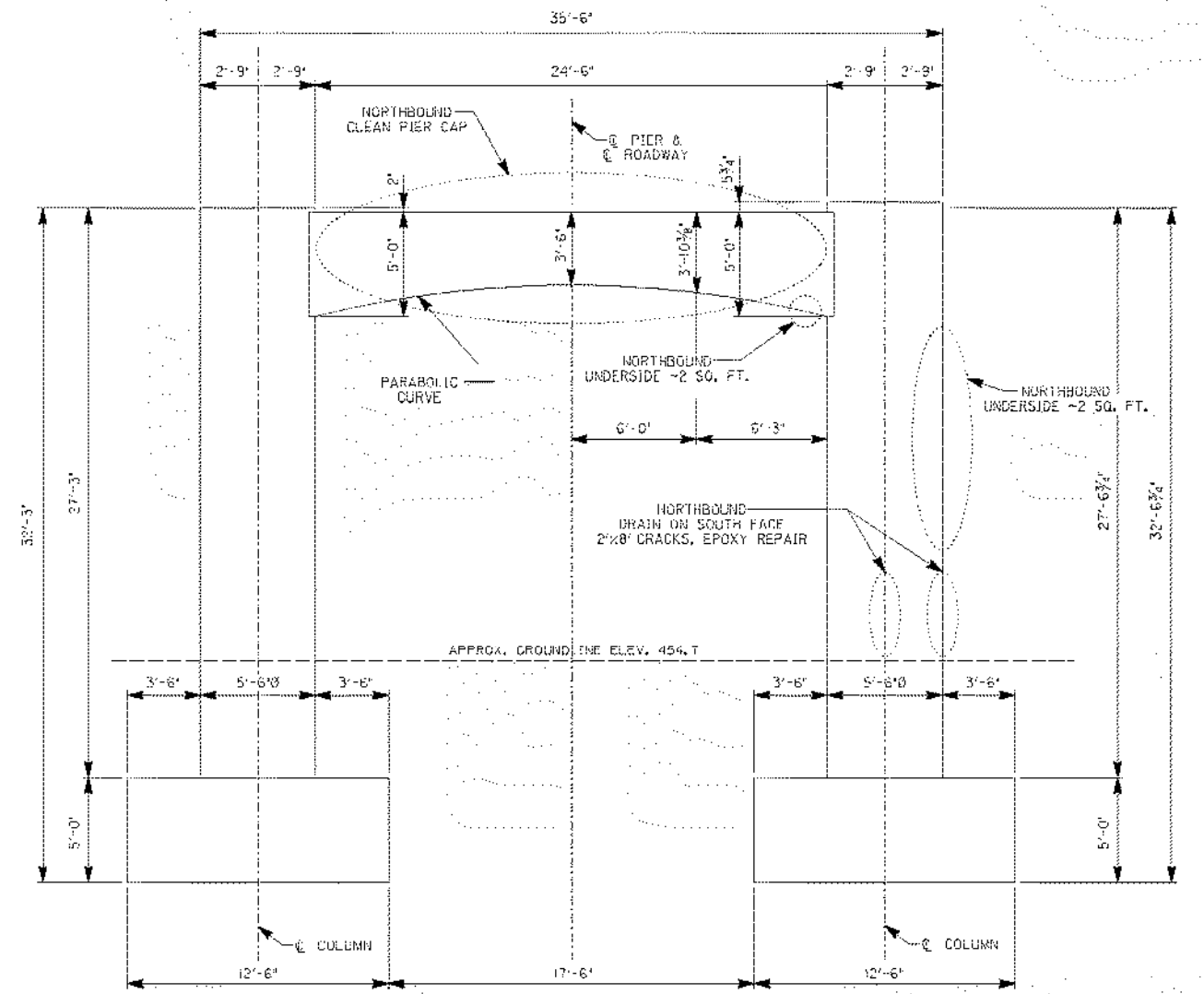
UNIT 1 CONTINUOUS HAUNCHED WELDED PLATE GIRDER.  
 UNIT 2 SIMPLE & CONTINUOUS STEEL BEAMS.  
 7 SPANS 113'-0", 142'-8", 113'-0", 73'-10", 63'-0", 74'-6", 63'-0"  
 I-65 OVER RIVERSIDE DRIVE & MARKET ST.

ITEM NO. 5-801.00

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-65</b>	CROSSING <b>I-65 OVER RIVERSIDE DRIVE</b>	
<b>LAYOUT</b>		
PREPARED BY <b>HMB PROFESSIONAL</b>	SHEET NO. <b>S2</b>	DRAWING NO.
<b>HMB</b> ENGINEERS, INC.		



**ELEVATION PIER 7**  
(SOUTHBOUND SHOWN, NORTHBOUND SIMILAR)



**ELEVATION PIER 8**  
(SOUTHBOUND SHOWN, NORTHBOUND SIMILAR)

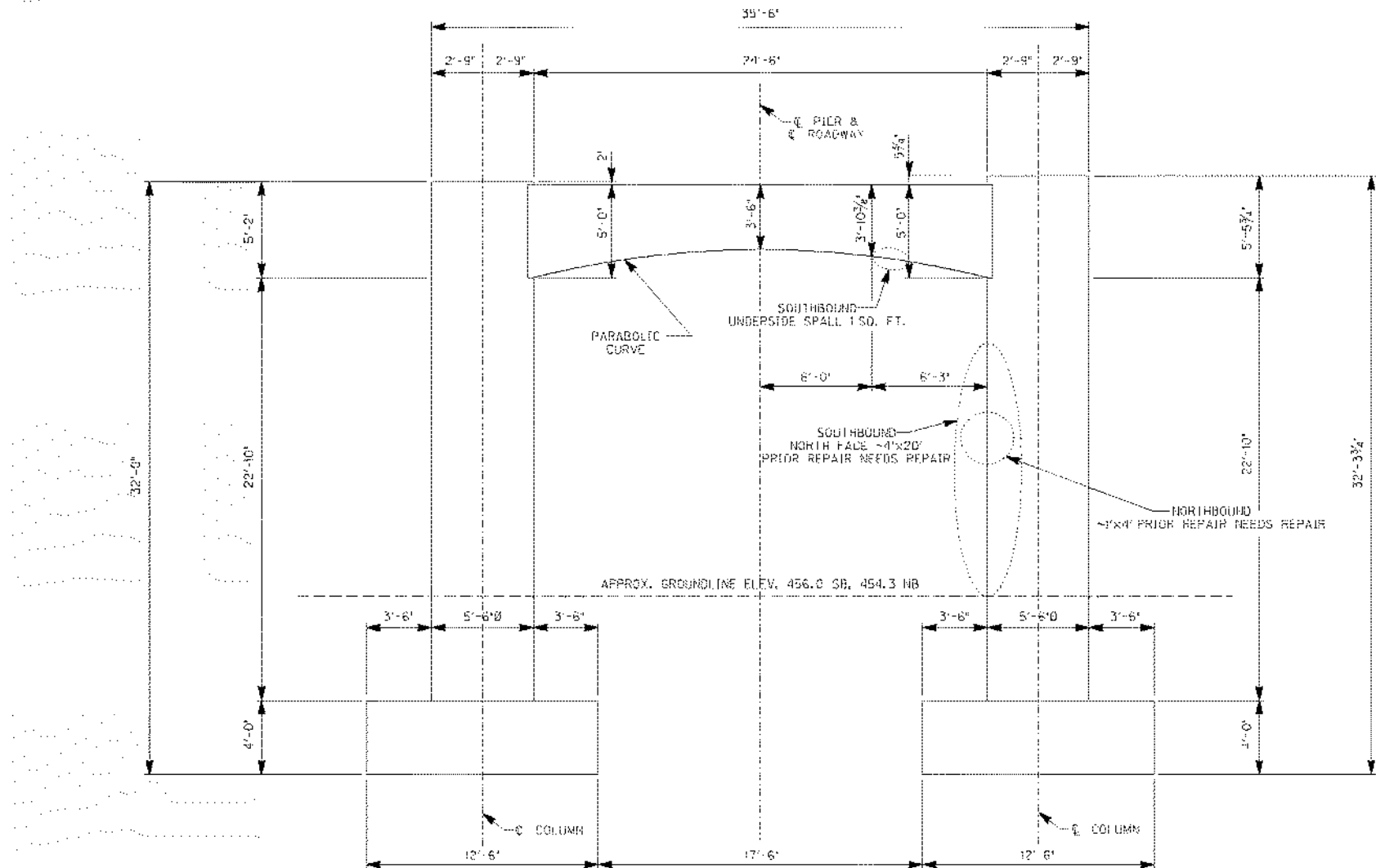
REVISION		DATE
DATE:	SEPTEMBER 2011	CHECKED BY:
DESIGNED BY:	DCP	BRM
DETAILED BY:	BRM	DCP
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE	CROSSING	
<b>I-65</b>	<b>I-65 OVER RIVERSIDE DRIVE</b>	
<b>PIER NO. 7 &amp; 8 INDIANA APPROACH</b>		
PREPARED BY:	<b>HMB PROFESSIONAL ENGINEERS, INC.</b>	SHEET NO. <b>S3</b>
DRAWING NO.		

ITEM NO. 5-801.00

DATE: 10/19/2011 2:33:44 PM

ckjrbj

SHEET LOCATION: FILE NAME: p:\engr\hjd\73\bridges\ced\PIE9.dgn



**ELEVATION PIER 9**  
 (SOUTHBOUND SHOWN, NORTHBOUND SIMILAR)

REVISION		DATE
DATE:	SEPTEMBER 2011	CHECKED BY:
DESIGNED BY:	DCX	BRM
DETAILED BY:	BRM	DCX
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-65</b>	CROSSING <b>I-65 OVER RIVERSIDE DRIVE</b>	
<b>PIER NO. 9 INDIANA APPROACH</b>		
PREPARED BY <b>HMB</b>	<b>HMB PROFESSIONAL ENGINEERS, INC.</b>	SHEET NO. <b>S4</b>
		DRAWING NO.

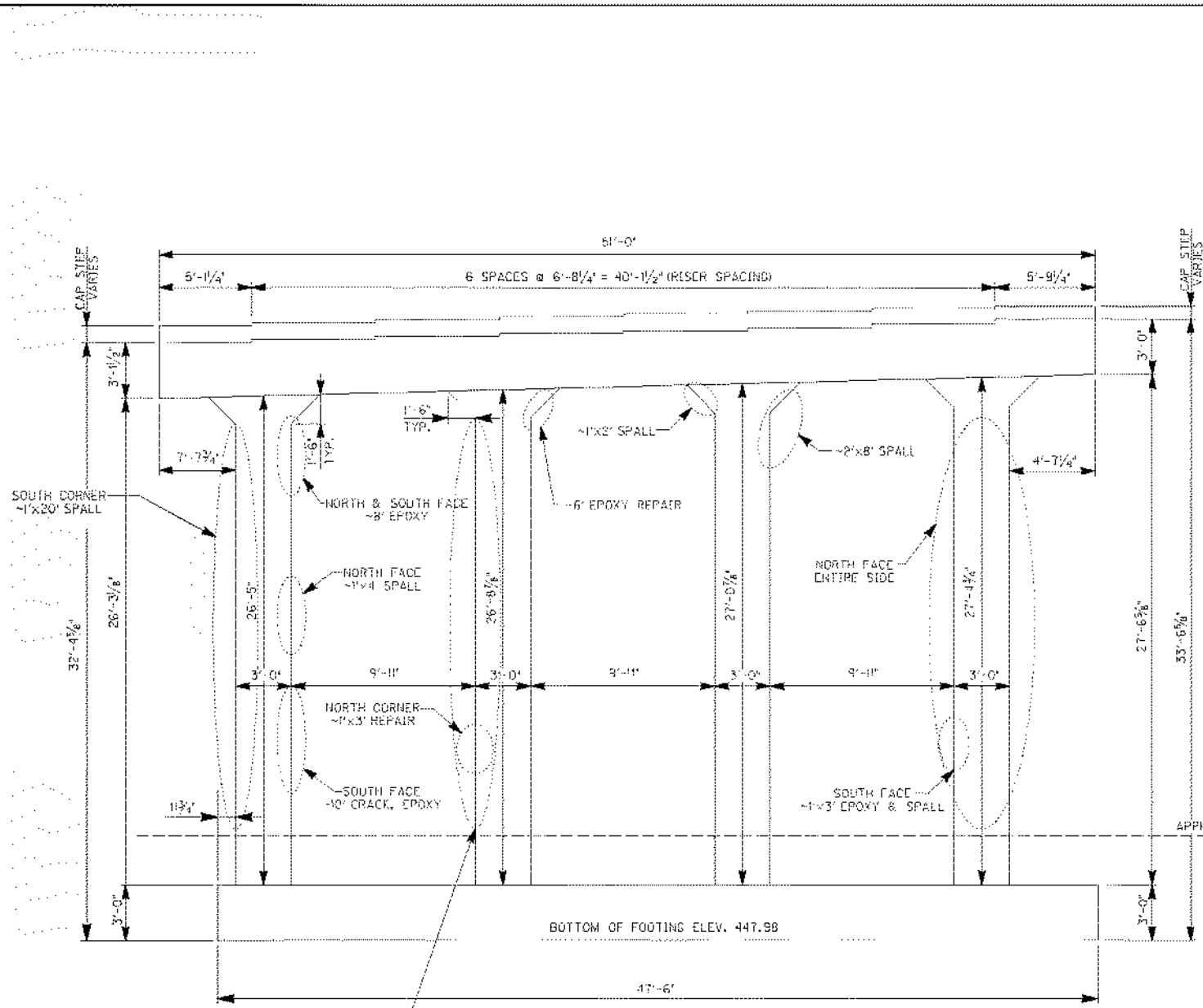
ITEM NO. 5-801.00



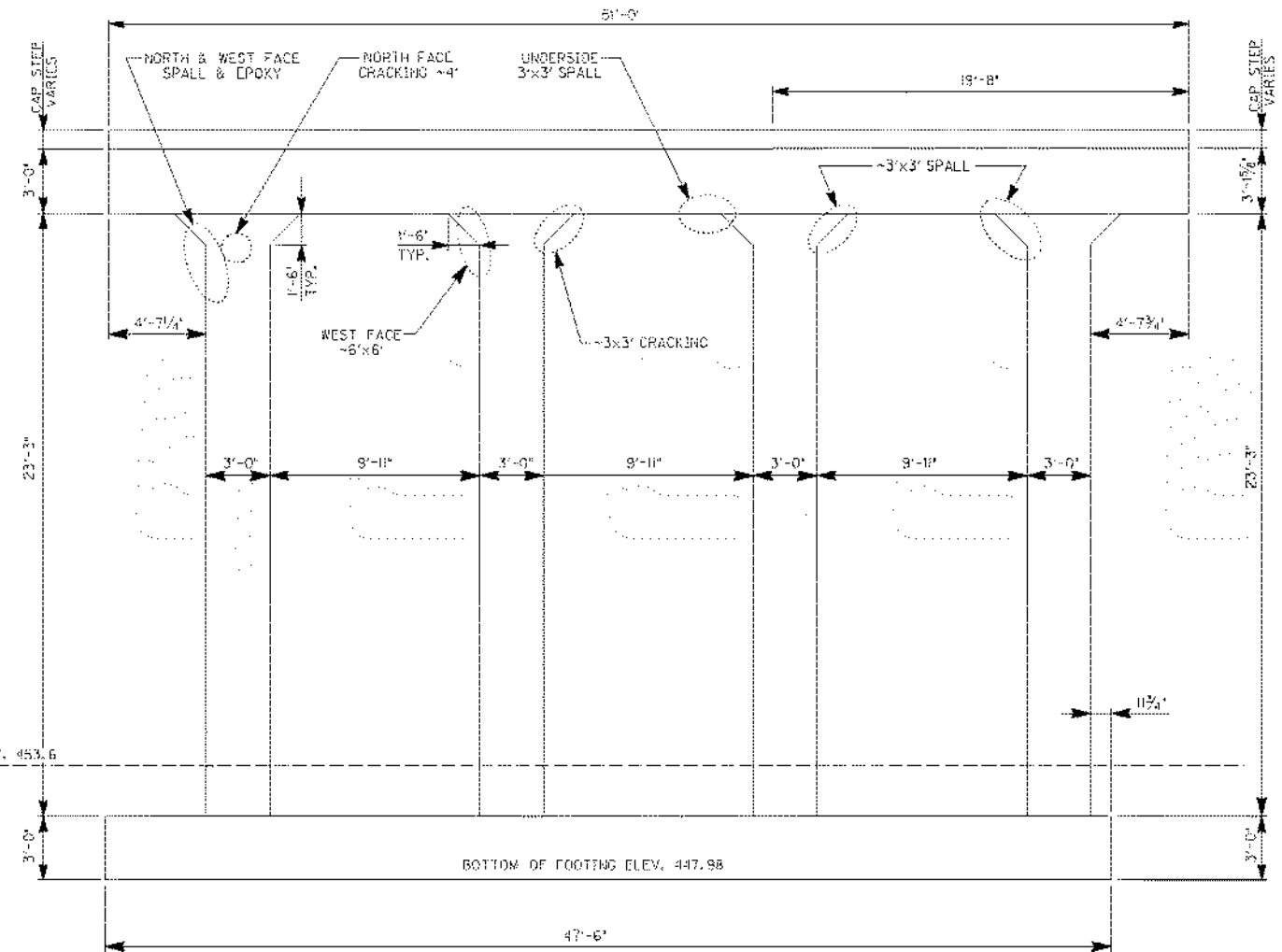
DATE: 10/19/2011 2:33:46 PM

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SHEET LOCATION: FILE NAME: p:\engr\hjd\73\bridges\ced\BENT10.dgn



ELEVATION-SOUTHBOUND



ELEVATION-NORTHBOUND

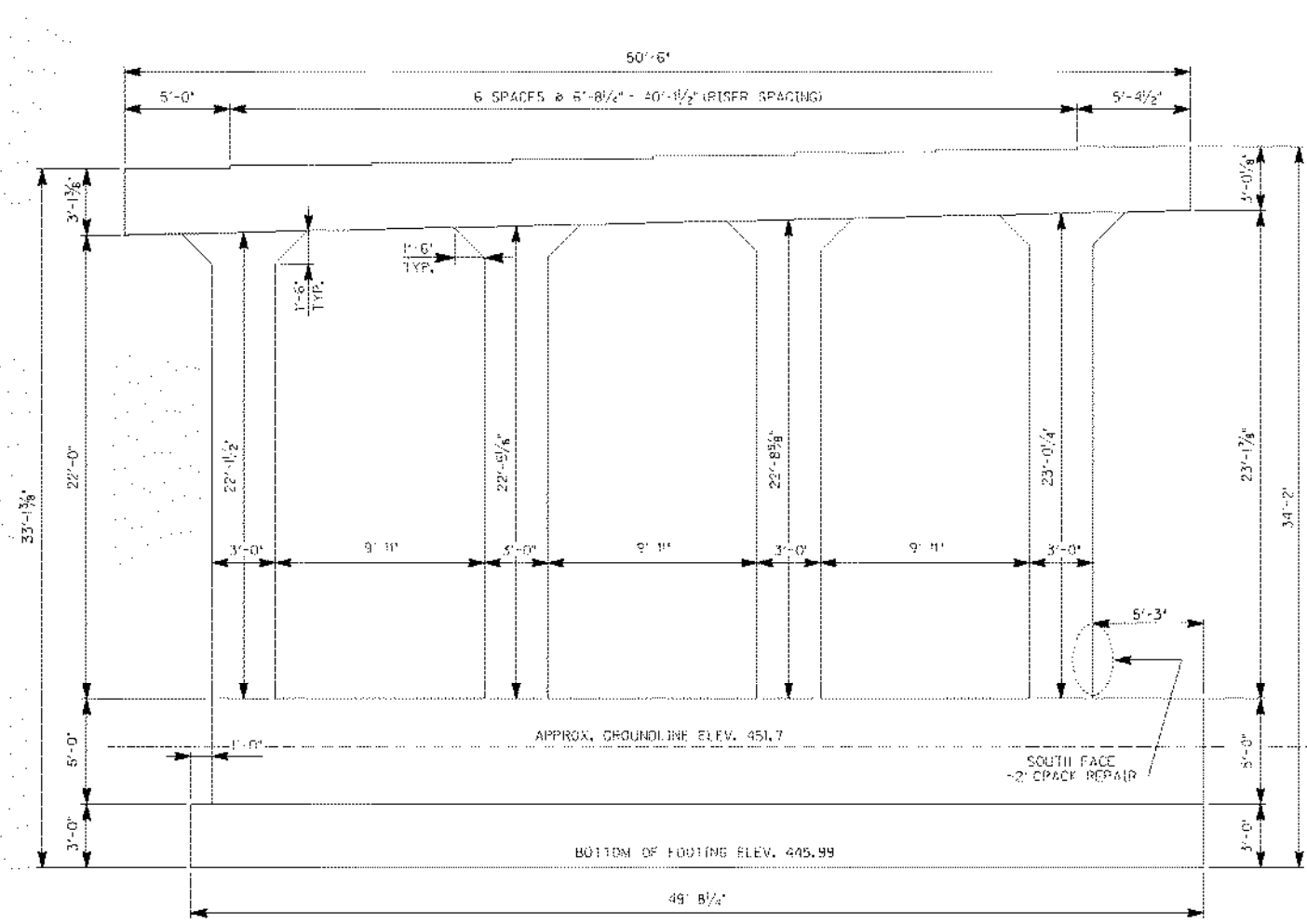
REVISION		DATE
DATE:	SEPTEMBER 2011	CHECKED BY:
DESIGNED BY:	DCP	BRM
DETAILED BY:	BRM	DCP
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE	CROSSING	
I-65	I-65 OVER RIVERSIDE DRIVE	
<b>BENT NO. 10 INDIANA SIDE</b>		
PREPARED BY:	HMB PROFESSIONAL ENGINEERS, INC.	SHEET NO. S5
DRAWING NO.		

ITEM NO. 5-801.00

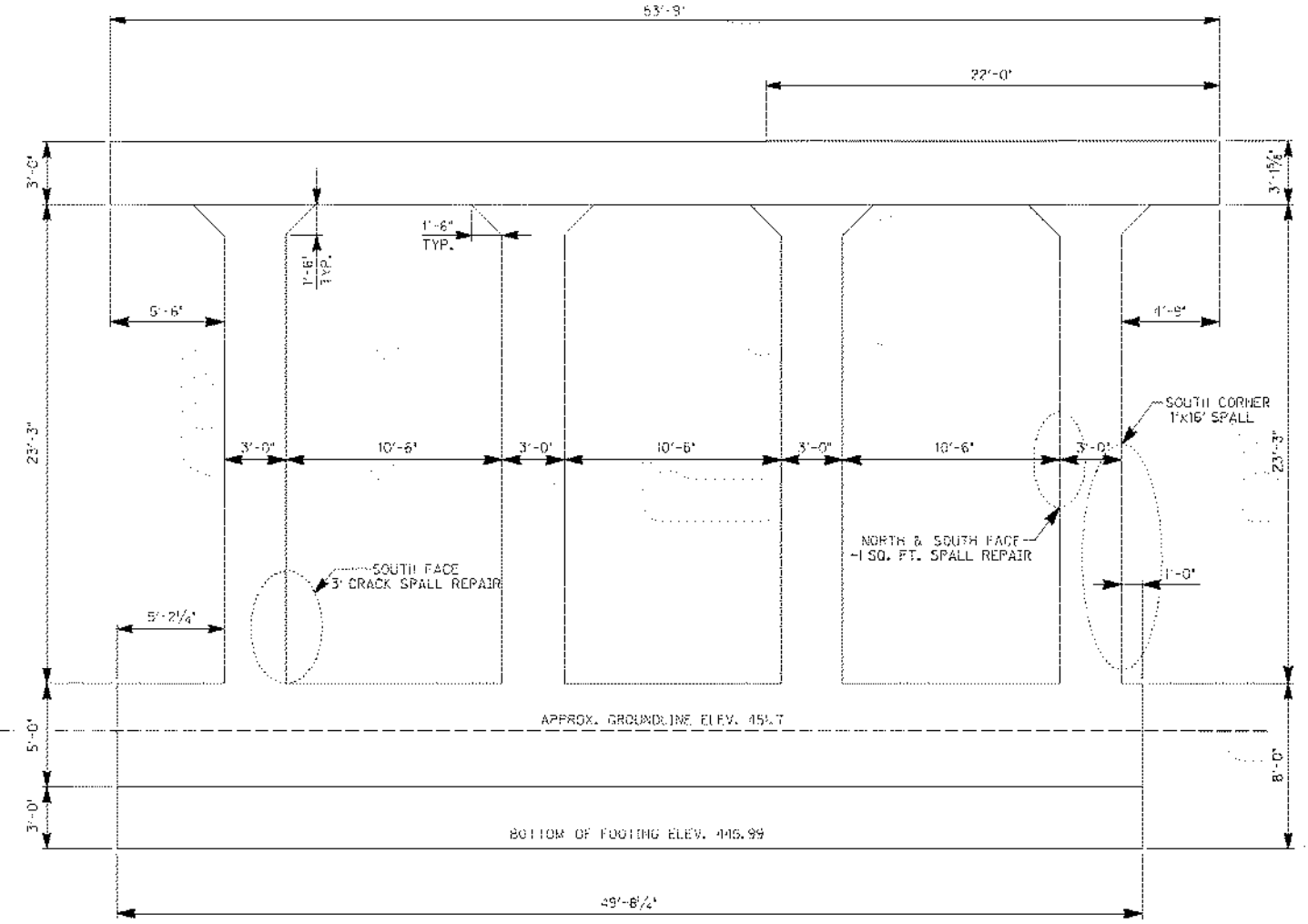
DATE: 10/19/2011 2:33:47 PM

ckj/rby

SHEET LOCATION: FILE NAME: p:\engr\hhd\73\bridges\ced\BENT11.dgn



ELEVATION-SOUTHBOUND



ELEVATION-NORTHBOUND

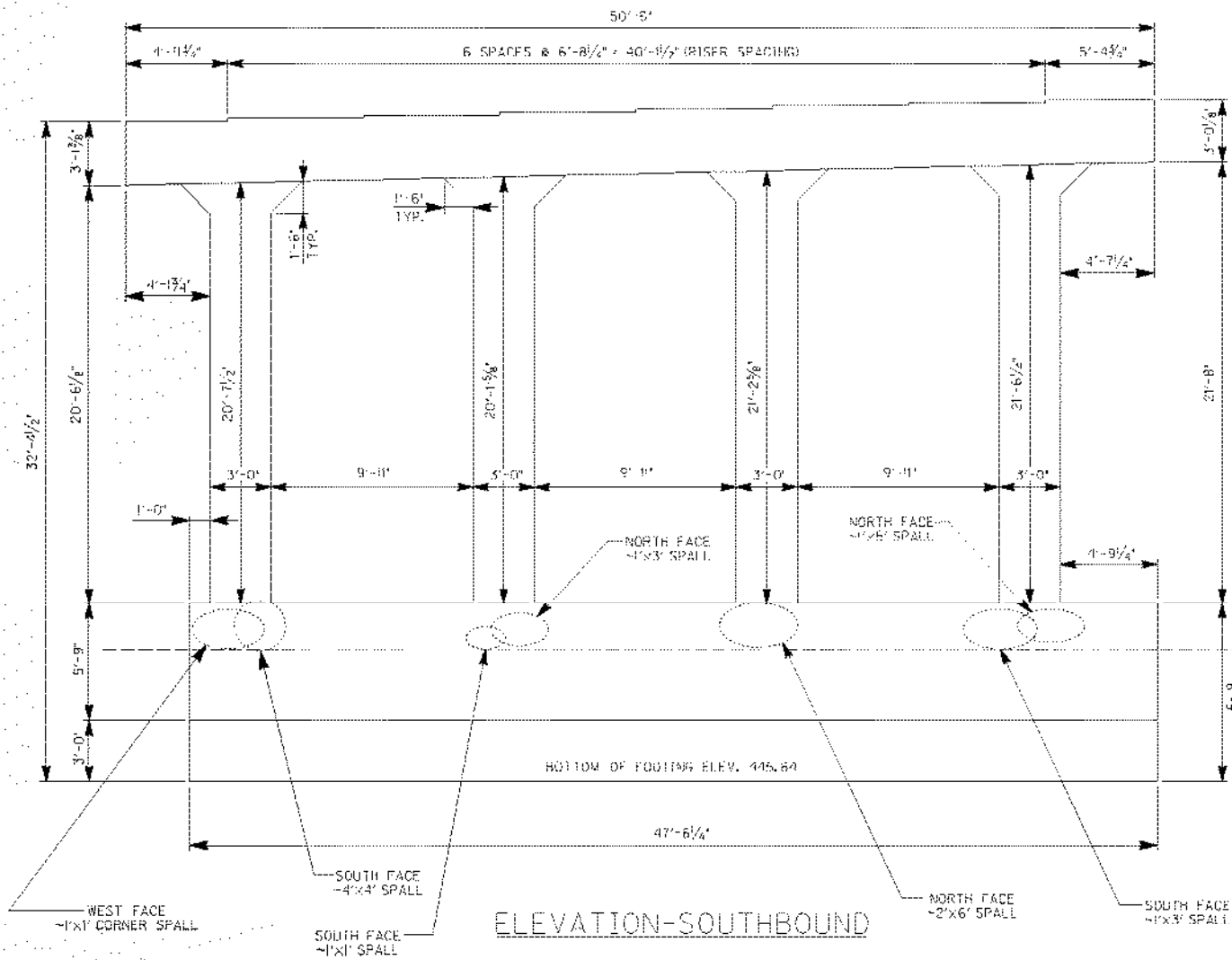
REVISION		DATE
DATE:	SEPTEMBER 2011	CHECKED BY:
DESIGNED BY:	DCX	BRM
DETAILED BY:	BRM	DCX
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE	CROSSING	
I-65	I-65 OVER RIVERSIDE DRIVE	
<b>BENT NO. 11 INDIANA SIDE</b>		
PREPARED BY:	HMB PROFESSIONAL ENGINEERS, INC.	SHEET NO. S6
DRAWING NO.		

ITEM NO. 5-801.00

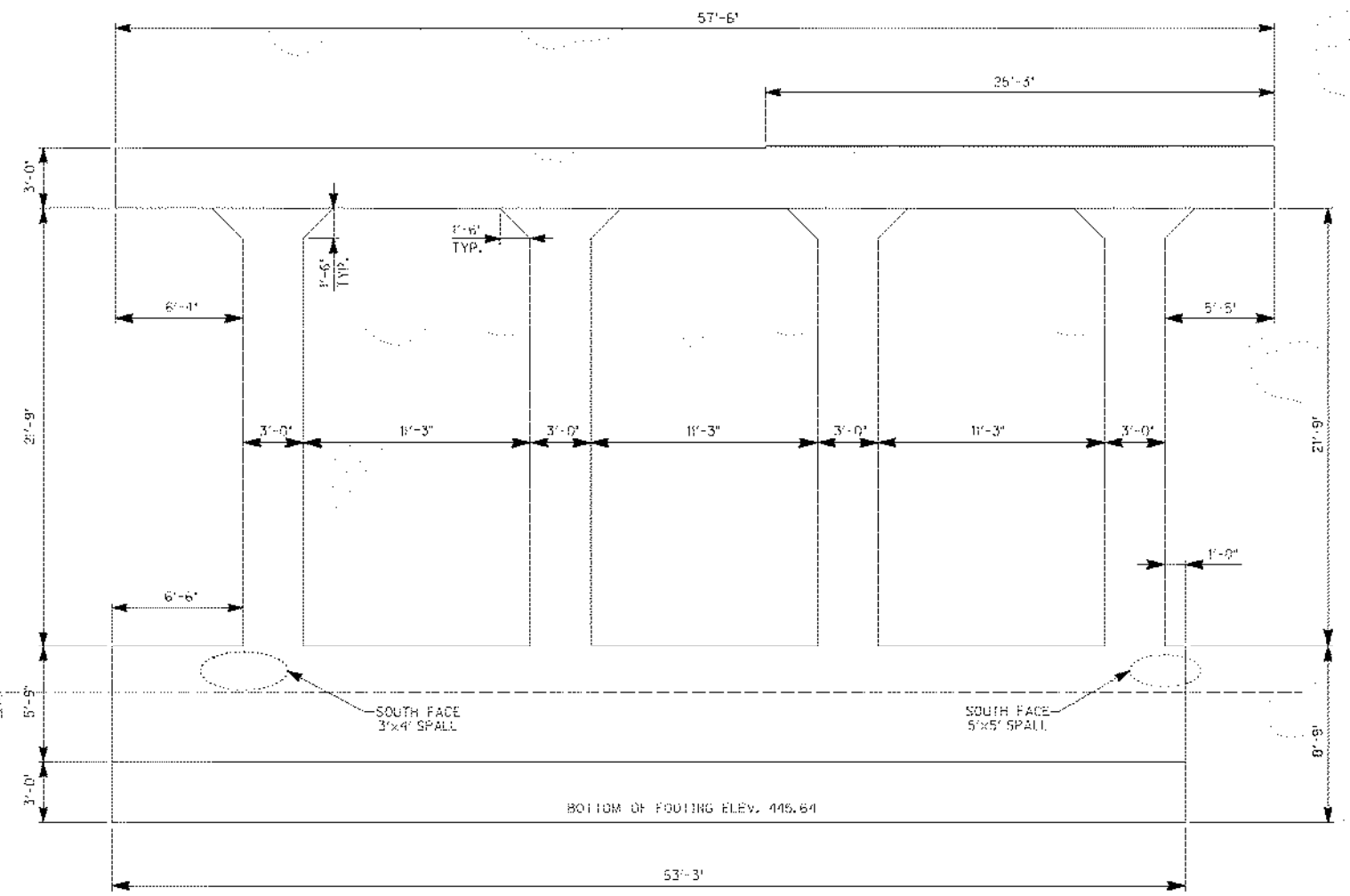
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ckjrbj

SHEET LOCATION: FILE NAME: p:\engr\hjd\73\bridges\ced\BENT12.dgn



ELEVATION-SOUTHBOUND



ELEVATION-NORTHBOUND

REVISION		DATE
DATE:	SEPTEMBER 2011	CHECKED BY:
DESIGNED BY:	DCX	BRM
DETAILED BY:	BRM	DCX
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE	CROSSING	
<b>I-65</b>	<b>I-65 OVER RIVERSIDE DRIVE</b>	
<b>BENT NO. 12 INDIANA SIDE</b>		
PREPARED BY:	HMB PROFESSIONAL ENGINEERS, INC.	SHEET NO. <b>S7</b>
DRAWING NO.		

ITEM NO. 5-801.00



**NOTES**

NOTE: PROVIDE ALL NEW DRAINAGE SYSTEM FROM EXISTING SCUPPERS TO REMAIN TO THE PIPE OUTFALL. ALL ANCHORING DEVICES SHALL BE CONSTRUCTED RATTLE FREE AND SECURED AGAINST ROTATION AND TRANSLATION. THE PIPE SHALL BE CUT TO FIELD DIMENSIONS AND ALL PIPE CONNECTIONS SHALL BE LEAKPROOF. SHOP DRAWINGS ARE REQUIRED FOR DRAINAGE DETAILS.

THE PIPE, FITTINGS, SUPPORT BRACKETS, NUTS, BOLTS, AND ANY OTHER HARDWARE, LABOR, INSTALLATION AND INCIDENTALS NEEDED SHALL BE INCLUDED IN THE UNIT PRICE BID FOR 'DRAIN PIPE 6 IN.'

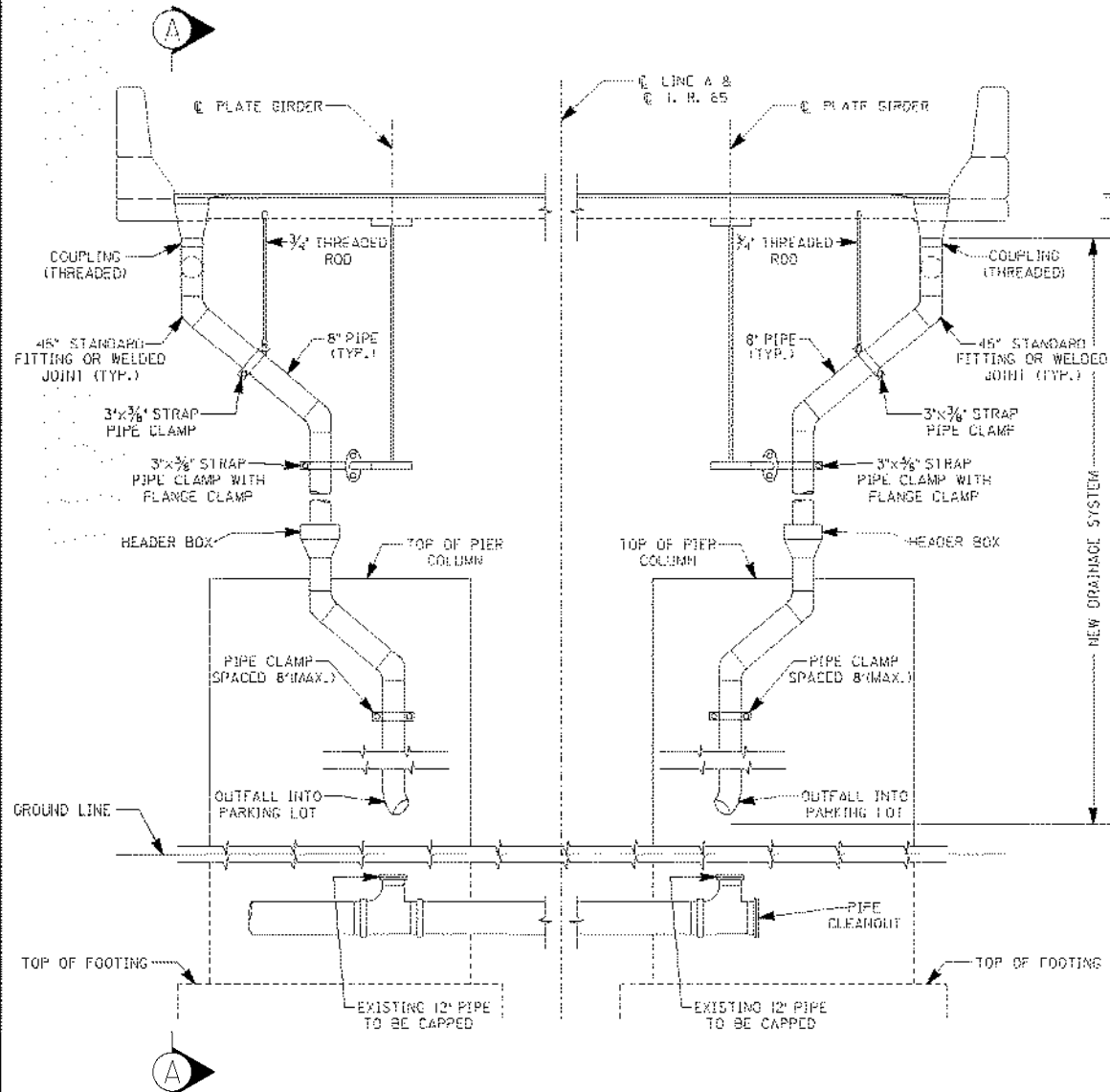
THE REMOVAL OF THE EXISTING DRAINAGE PIPE AND HARDWARE SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR 'DRAIN PIPE 6 IN.'

**MATERIALS**

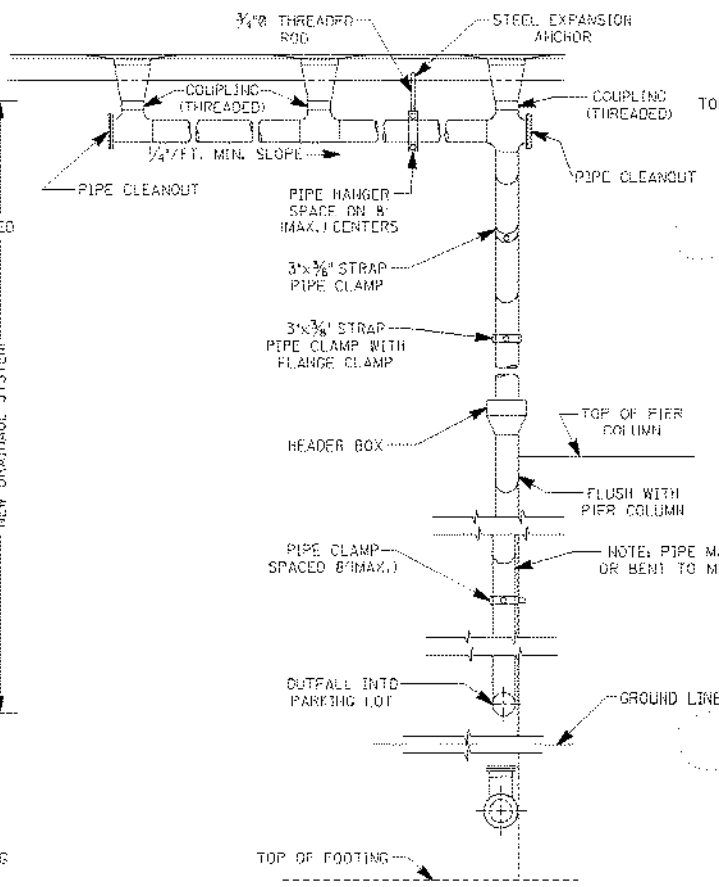
8" PIPE & FITTINGS - PVC SCHEDULE 40 ASIA D-1785

SUPPORTS, CLAMPS, AND OTHER METALLIC PIECES SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 11. PAINTING IS NOT REQUIRED.

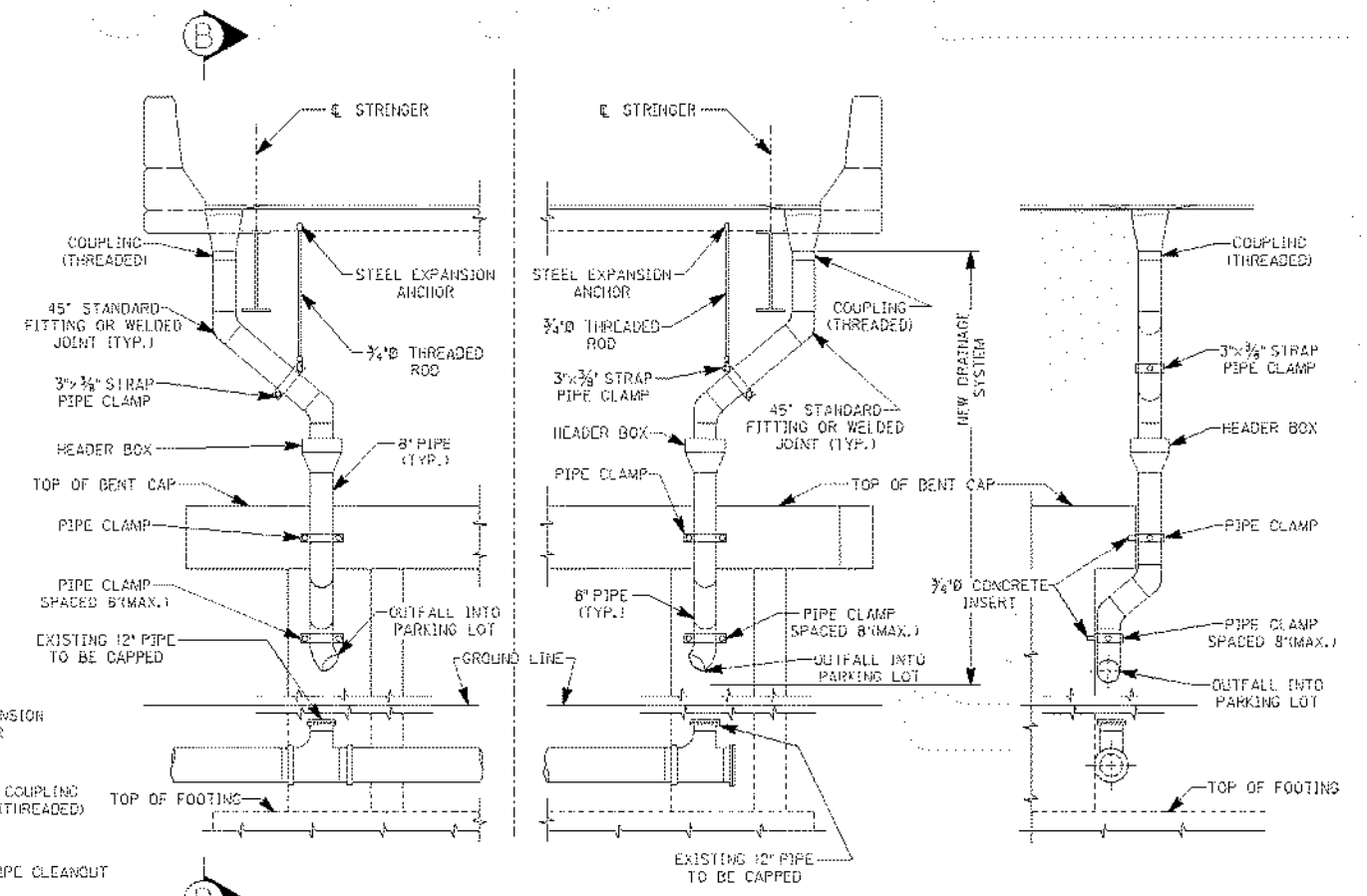
WORK AND MATERIALS SHALL BE DONE IN ACCORDANCE WITH 2010 INDOT STANDARD SPECIFICATIONS SECTION 715. MATERIALS SHALL BE IN ACCORDANCE WITH 997.16 SCHEDULE 40 PVC PIPE.



DRAINAGE PLAN FOR PIER NO. 8 & 9



SECTION A-A



DRAINAGE PLAN FOR BENT NO. 10

SECTION B-B

REVISION		DATE
DATE: SEPTEMBER 2011	DESIGNED BY: DCF	CHECKED BY:
DETAILED BY: BHM		
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE <b>I-65</b>	CROSSING <b>I-65 OVER RIVERSIDE DRIVE</b>	
<b>DRAINAGE DETAILS INDIANA APPROACH</b>		
PREPARED BY <b>HMB PROFESSIONAL ENGINEERS, INC.</b>		SHEET NO. <b>S9</b>
DRAWING NO.		

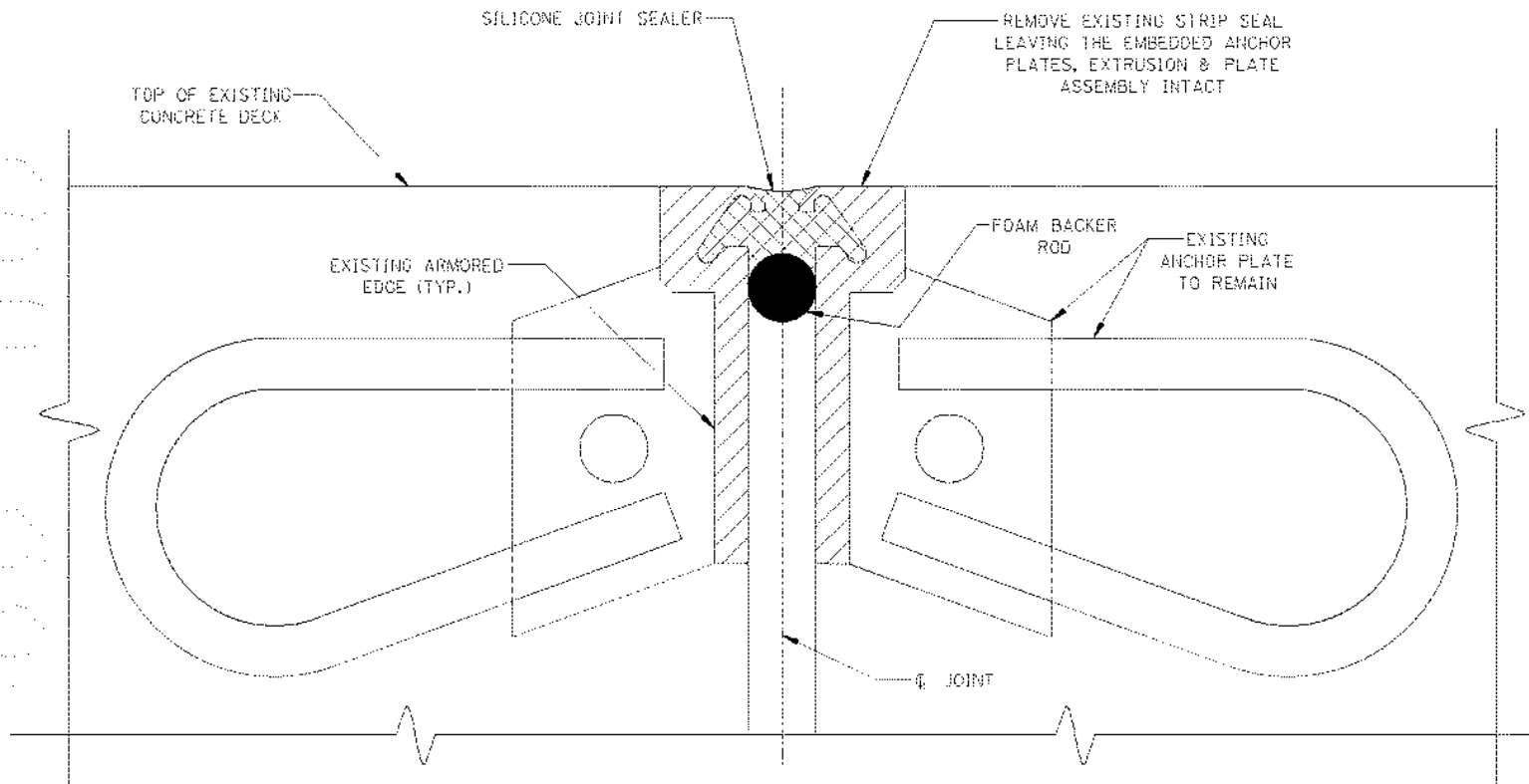
ITEM NO. 5-801.00

DATE: 10/19/2011 2:33:51 PM  
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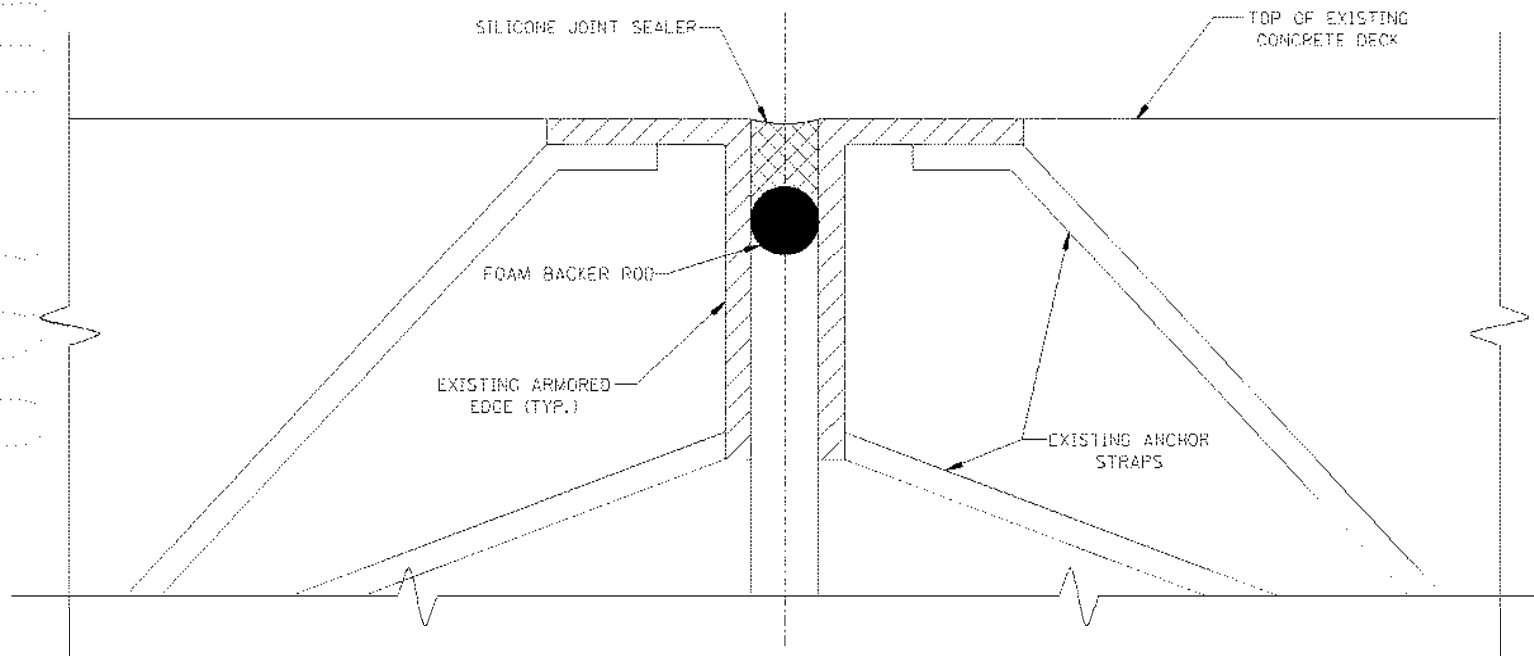
DATE: 10/19/2011 2:33:53 PM

dkh:rbj

SHEET LOCATION: FILE NAME: g:\engr\hail73\bridges\cccd\JOINTDETAIL.S.dgn



JOINT REPLACEMENT CLASS "SS"



JOINT REPLACEMENT TYPE A

ITEM NO. 5-801.00

REVISION		DATE
DATE:	SEPTEMBER 2011	CHECKED BY:
DESIGNED BY:	DCX	BOS
DETAILED BY:	BHM	DCX
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-65</b>	CROSSING <b>I-65 OVER RIVERSIDE DRIVE</b>	
<b>JOINT DETAILS</b>		
PREPARED BY <b>HMB PROFESSIONAL ENGINEERS, INC.</b>		SHEET NO. <b>S10</b>
		DRAWING NO.





**GENERAL NOTES – CONT'D.**

**REMOVAL OF EXISTING RIVETS AND BOLTS**

THE CONTRACTOR WILL BE PERMITTED TO REMOVE RIVETS AND BOLTS IN ANY MANNER WHICH DOES NOT DAMAGE ADJACENT STRUCTURAL STEEL. THIS MAY INCLUDE MECHANICAL REMOVAL OR OTHER METHOD APPROVED BY THE ENGINEER. USE OF CUTTING TORCHES WILL NOT BE PERMITTED.

**REMOVE STEEL**

ALL EXISTING STEEL THAT IS REMOVED AND NOT REUSED IN THE COMPLETED STRUCTURE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE BRIDGE SITE.

**STRUCTURAL STEEL**

THIS LUMP SUM BID ITEM CONSISTS OF FURNISHING, FABRICATING, INSTALLING AND PAINTING ALL NEW STRUCTURAL STEEL. THE WORK INCLUDES DIAPHRAGMS, STRINGERS, GIRDERS, CANTILEVERS AND CONNECTIONS, CLEANING, REPAIRING, AND PAINTING EXISTING STEEL AS INDICATED AND MISCELLANEOUS STRUCTURAL STEEL, BOLTS AND WELDING. THE LUMP SUM BID FOR THIS WORK WILL BE FULL COMPENSATION FOR ALL MATERIALS, EQUIPMENT, ACCESS, LABOR AND INCIDENTALS TO COMPLETE THE WORK.

**VERIFYING EXISTING DIMENSIONS**

ALL EXISTING FIELD DIMENSIONS AND ELEVATIONS WHETHER CALLED OUT ON THESE PLANS OR NOT, SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF ANY MATERIALS WHICH ARE CONTINGENT ON SUCH FIELD DIMENSIONS.

**DIMENSIONS**

DIMENSIONS SHOWN ON THESE PLANS ARE TAKEN FROM ORIGINAL CONSTRUCTION CONTRACT PLANS AND SUBSEQUENT RETROFIT PLANS AND DO NOT NECESSARILY REFLECT REVISIONS MADE DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY DIMENSIONS, INCLUDING THICKNESSES OF PARTS, WITH FIELD MEASUREMENTS PRIOR TO ORDERING MATERIALS.

FILE NAME: C:\PROJECTS\35676\GDS\K3FP002.DGN

USER: E1gr7dgd  
DATE PLOTTED: October 17, 2011

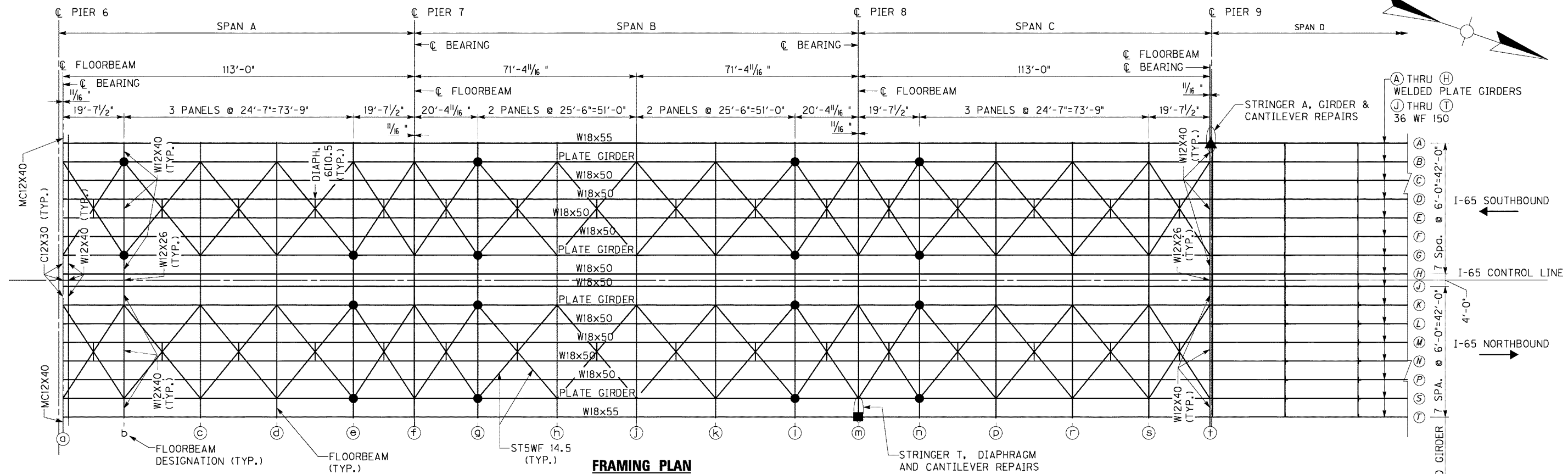
E-SHEET NAME:

MicroStation v8.1i.7.443

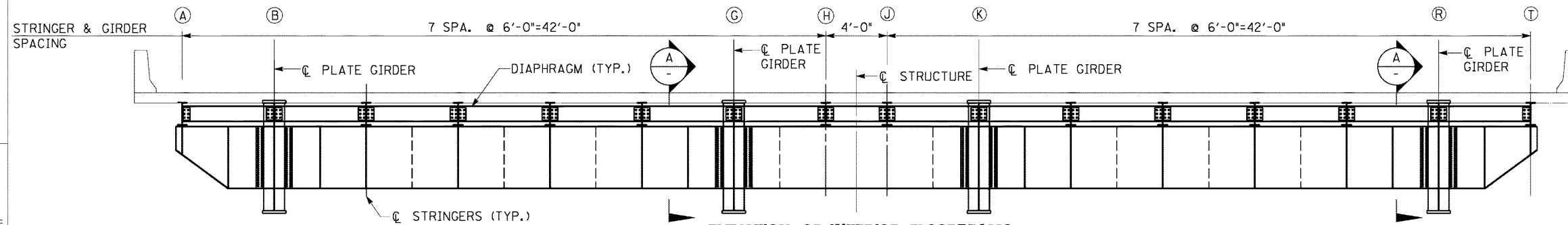
INDOT BRIDGE FILE NO. I-65-4811 B

ITEM NUMBER
5-801.00

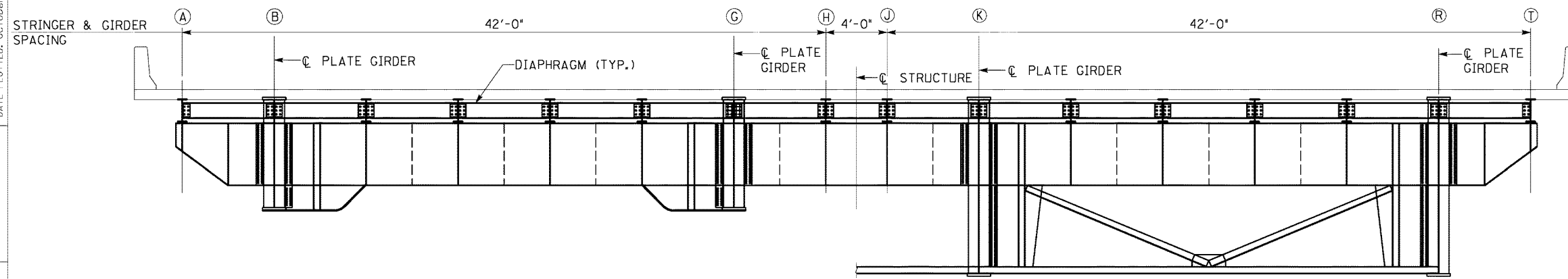
REVISION		DATE
DATE: OCT. 19, 2011	CHECKED BY	
DESIGNED BY: GCG	WAH	
DETAILED BY: DDE	GCG	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-65</b>	CROSSING <b>RIVERSIDE DRIVE</b>	
<b>GENERAL NOTES (2 OF 2)</b>		
PREPARED BY <b>PARSONS BRINCKERHOFF</b>		SHEET NO. <b>S12</b>
		DRAWING NO.



**FRAMING PLAN**



**ELEVATION OF INTERIOR FLOORBEAMS**



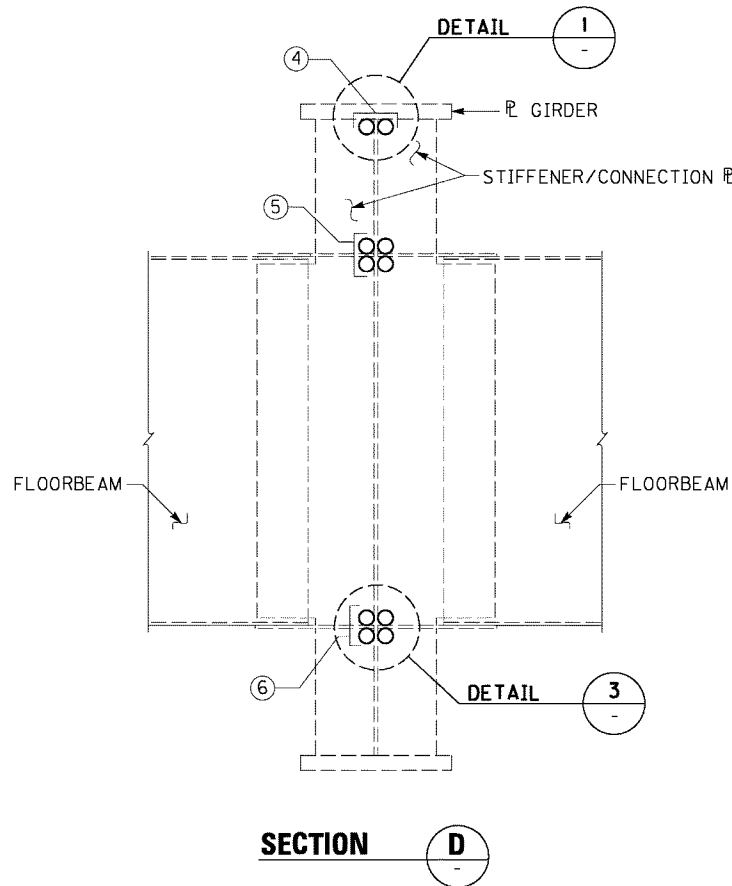
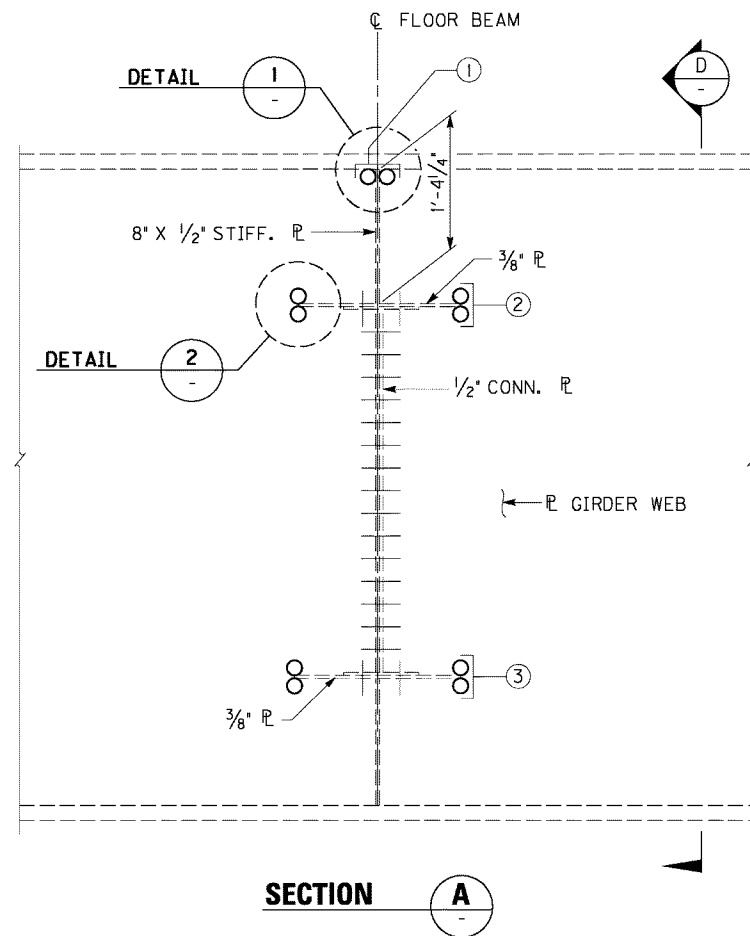
**ELEVATION OF FLOORBEAMS PIERS NO. 6, 7, 8 & 9**

- NOTES:**
- LOCATIONS WHERE CRACK INTERCEPT HOLES ARE TO BE DRILLED. SEE SHEET S14 FOR DETAILS AND SCHEDULE.
  - LOCATION OF STRINGER T END, DIAPHRAGM AND CANTILEVER REPAIRS, SEE SHEETS S15 & S16.
  - ▲ LOCATION OF STRINGER A, GIRDER AND CANTILEVER REPAIRS, SEE SHEETS S17 & S18.

REVISION	DATE
DATE: OCT. 19, 2011	CHECKED BY:
DESIGNED BY: GCG	WAH
DETAILED BY: DDE	GCG
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>	
<b>JEFFERSON</b>	
ROUTE <b>I-65</b>	CROSSING <b>RIVERSIDE DRIVE</b>
<b>FRAMING PLAN</b>	
ITEM NUMBER <b>5-801.00</b>	PREPARED BY <b>PARSONS BRINCKERHOFF</b>
INDOT BRIDGE FILE NO. I-65-4811 B	SHEET NO. <b>S13</b> DRAWING NO.

FILE NAME: C:\PROJECTS\35676\GDS\K3FP001.DGN  
 USER: eldrldged  
 DATE PLOTTED: October 11, 2011  
 E-SHEET NAME:  
 MicroStation v8.11.7.443

FILE NAME: C:\PROJECTS\35676\GDS\K3FP001.DGN  
 USER: eidi1dgd  
 DATE PLOTTED: October 11, 2011  
 E-SHEET NAME:  
 MicroStation v8.1i.7.443



STRINGER		GIRDER LINE															
		B				G				K				S			
		HOLE LOCATIONS - SEE SECTIONS A & D															
		WEB		STIFFENERS		WEB		STIFFENERS		WEB		STIFFENERS		WEB		STIFFENERS	
		1	4	5	6	1	4	5	6	1	4	5	6	1	4	5	6
b					3				4								
e							2				2			2	2		
g		2	2			2	2			1	2			2	2		
l		2	2			2	2			2	2				2		
n		2	2			2	2	4		2	2			2	2		

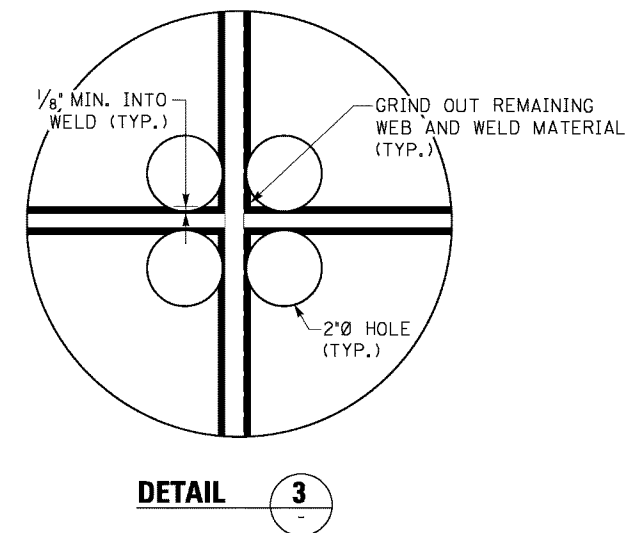
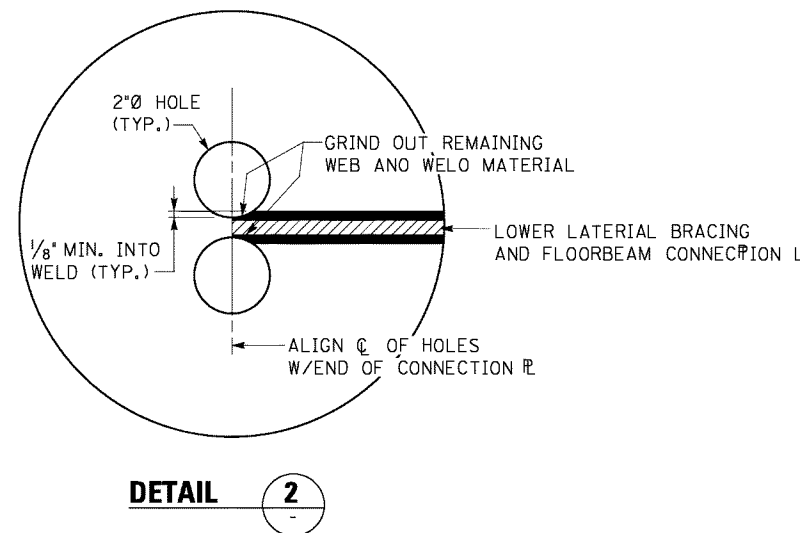
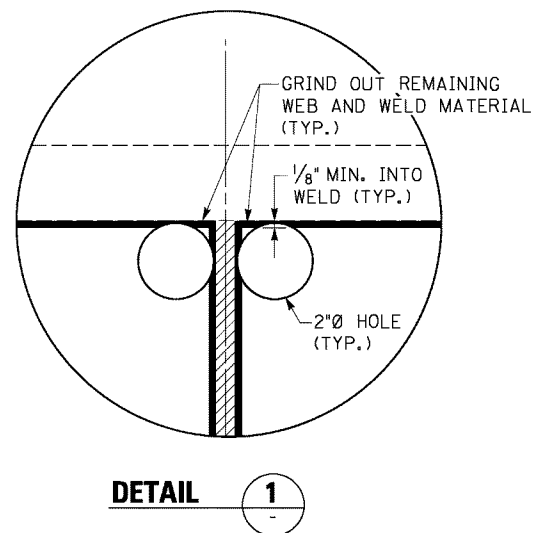
THE QUANTITY AND LOCATIONS OF HOLES IN THIS SCHEDULE ARE AN ESTIMATE OF QUANTITY AND LOCATION TO COMPLETE THE EXISTING PATTERN. THE CONTRACTOR SHALL DRILL HOLES SUFFICIENT TO COMPLETE THE PATTERN INDICATED BY NOTES FOR SECTIONS A AND D. THIS SCHEDULE INDICATES THE TOTAL QUANTITY OF HOLES TO BE DRILLED AS PART OF THE BASE BID. HOLES WITHIN THIS QUANTITY SHALL BE DRILLED IN DIFFERENT LOCATIONS IF REQUIRED TO COMPLETE THE SPECIFIED PATTERN. IF ADDITIONAL HOLES ARE REQUIRED TO COMPLETE THE PATTERN, THEY SHALL BE PAID FOR AT THE UNIT PRICE FOR DRILLED HOLES IN STEEL MEMBERS.

**NOTES**

- LOWER LATERAL BRACING OMITTED TO SHOW HOLE LOCATIONS.
- INDICATES WEB HOLE LOCATIONS FOR HOLES INDICATED IN SCHEDULE.
- HOLE PATTERN:
  - ~ HOLES SHALL BE DRILLED TO COMPLETE THE PATTERN AT LOCATIONS 1 AND 2 AT FLOORBEAMS e, g, l and n.
  - ~ HOLES SHALL BE DRILLED TO COMPLETE THE PATTERN AT LOCATION 3 FOR FLOORBEAMS b, c, d, h, j, k, q, r and s.

**NOTE**

- INDICATES STIFFENER HOLE LOCATIONS FOR HOLES INDICATED IN SCHEDULE.
- HOLE PATTERN:
  - ~ HOLES SHALL BE DRILLED TO COMPLETE THE PATTERN AT LOCATIONS 4 AND 5 AT FLOORBEAMS e, g, l and n.
  - ~ HOLES SHALL BE DRILLED TO COMPLETE THE PATTERN AT LOCATION 6 AT FLOORBEAMS b, c, d, h, j, k, q, r and s.



TYP. OF UP TO 4 HOLES AT EACH LOCATION

INDOT BRIDGE FILE NO. I-65-4811 B

ITEM NUMBER	5-801.00
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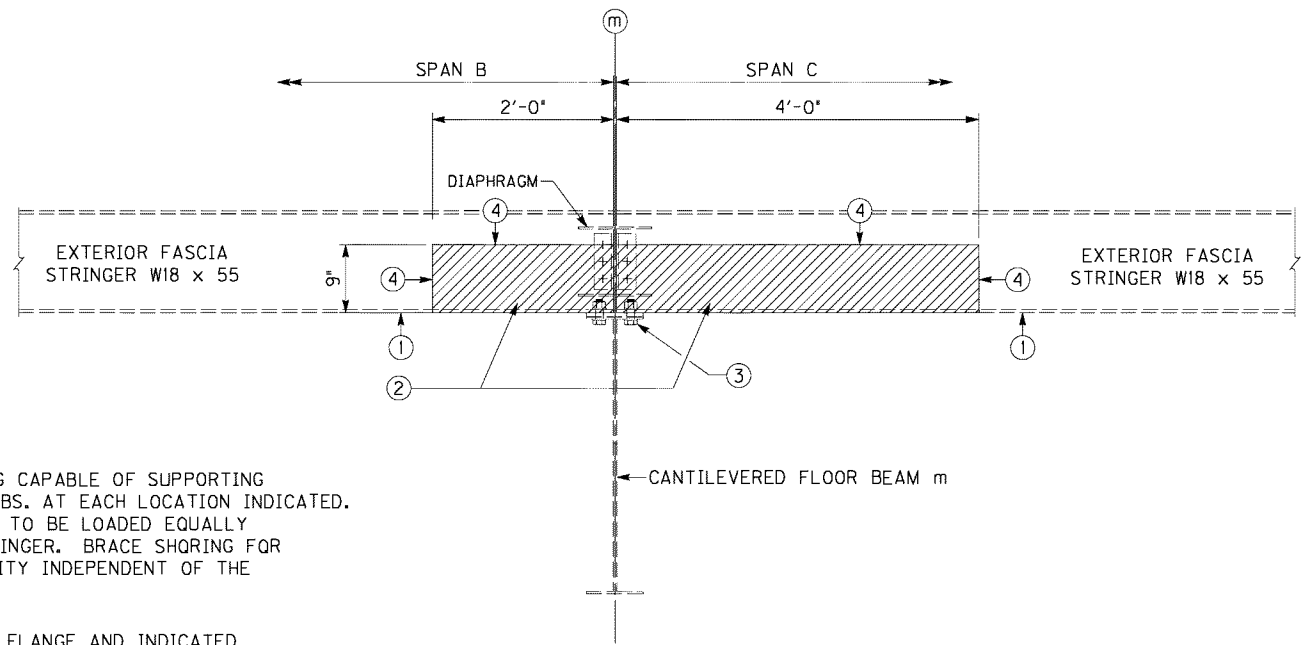
REVISION		DATE
DATE: OCT. 19, 2011	CHECKED BY	
DESIGNED BY: GCG	WAH	
DETAILED BY: DDE	GCG	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE I-65	CROSSING RIVERSIDE DRIVE	
<b>CRACK ARREST HOLES</b>		
PREPARED BY <b>PARSONS BRINCKERHOFF</b>		SHEET NO. S14 DRAWING NO.

FILE NAME: C:\PROJECTS\35676\GDS\K355001.dgn

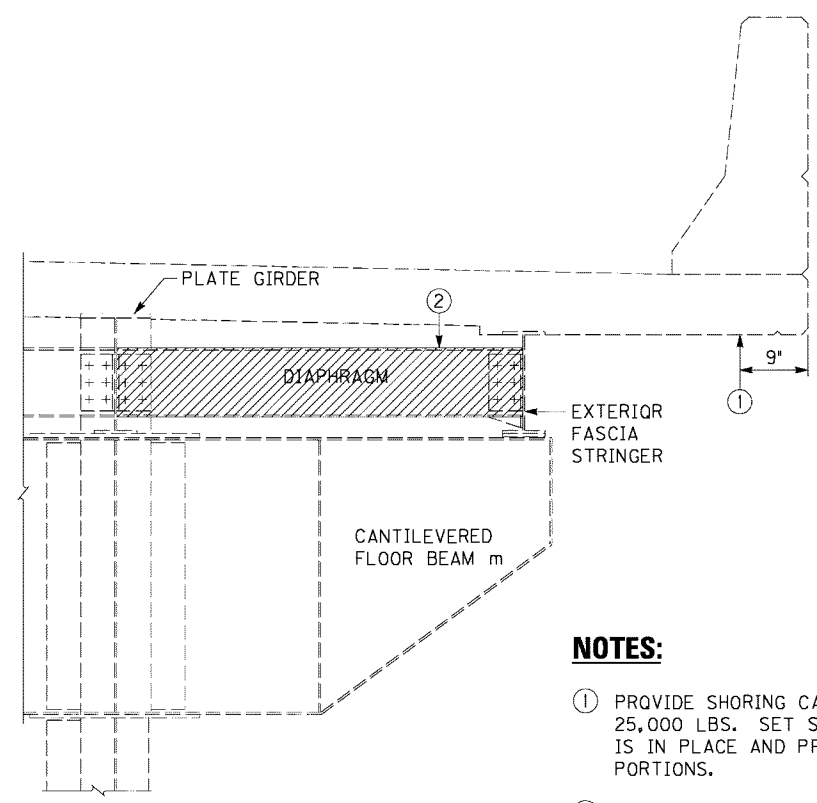
USER: E1gr7dgd  
DATE PLOTTED: October 4, 2011

E-SHEET NAME:

MicroStation v8.1i.7.443



**EXISTING STRINGER ELEVATION**



**EXISTING STRINGER SECTION**

**NOTES:**

- ① PROVIDE SHORING CAPABLE OF SUPPORTING UP TO 25,000 LBS. AT EACH LOCATION INDICATED. ADJUST SHORING TO BE LOADED EQUALLY UNDER EACH STRINGER. BRACE SHORING FOR LATERAL STABILITY INDEPENDENT OF THE STRINGER.
- ② REMOVE BOTTOM FLANGE AND INDICATED PORTION OF WEB.
- ③ REMOVE BOLTS.
- ④ CUTS SHALL BE MADE BY MEANS THAT LEAVE EDGES TRUE AND SQUARE TO DIMENSIONS INDICATED. CUT IN WASTE MATERIAL AND GRIND TO FINAL LINES IF NECESSARY.

**NOTES:**

- ① PROVIDE SHORING CAPABLE OF SUPPORTING UP TO 25,000 LBS. SET SHORING AFTER STRINGER SHORING IS IN PLACE AND PRIOR TO REMOVING STRINGER PORTIONS.
- ② REMOVE DIAPHRAGM AND CONNECTION ANGLES.

**EAST FACIA STRINGERS AND CANTILEVER OVER PIER NO. 8**

- MATERIAL TO BE REMOVED/REPLACED

REVISION		DATE
DATE: OCT. 19, 2011	CHECKED BY	
DESIGNED BY: GCG	WAH	
DETAILED BY: DDE	GCG	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-65</b>	CROSSING <b>RIVERSIDE DRIVE</b>	
<b>STR. T, CANTILEVER m REPAIRS</b>		
ITEM NUMBER	PREPARED BY	SHEET NO.
5-801.00	<b>PARSONS BRINCKERHOFF</b>	<b>S15</b>
		DRAWING NO.

INDOT BRIDGE FILE NO. I-65-4811 B

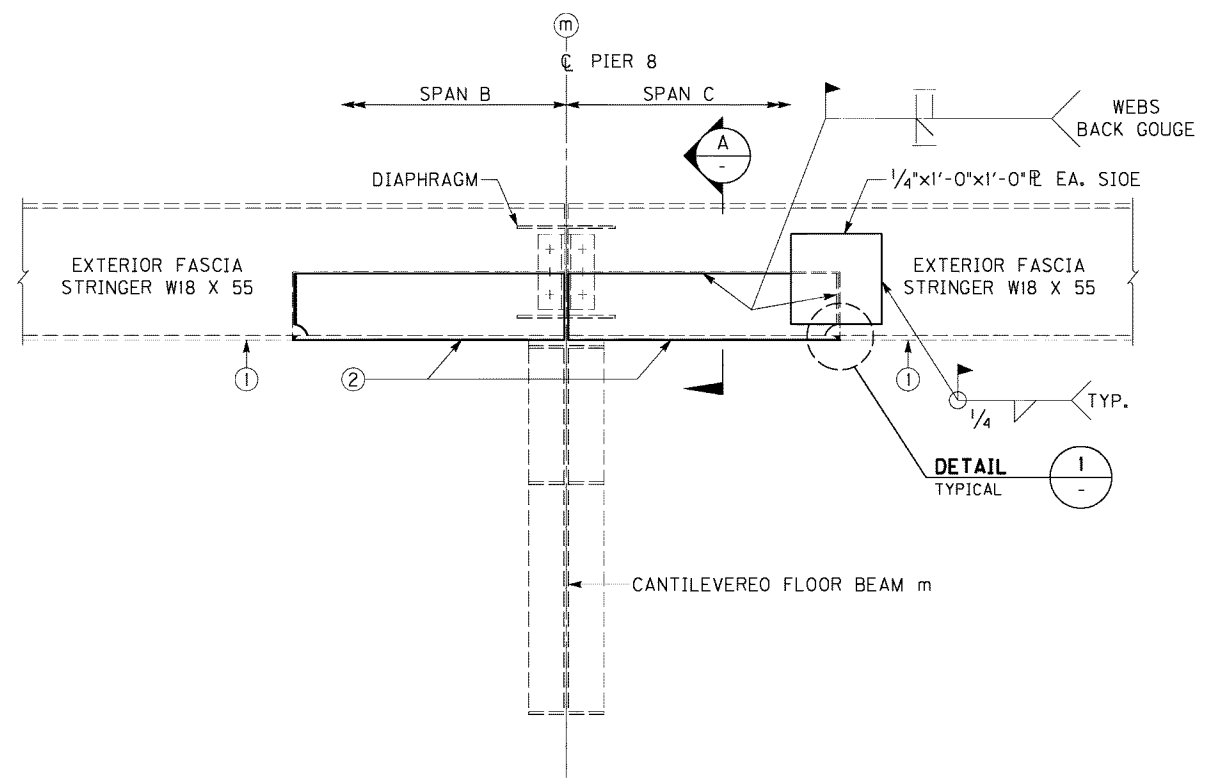
ITEM NUMBER
5-801.00

FILE NAME: C:\PROJECTS\35676\GDS\K355002.DGN

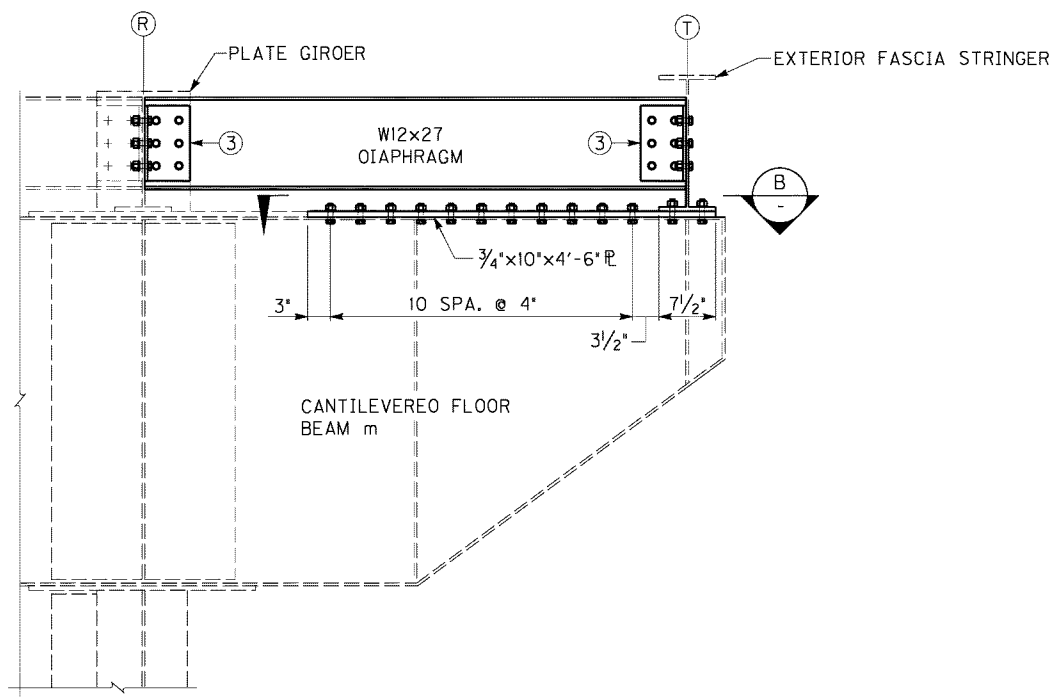
USER: Elgr1dgd  
DATE PLOTTED: October 4, 2011

E-SHEET NAME:

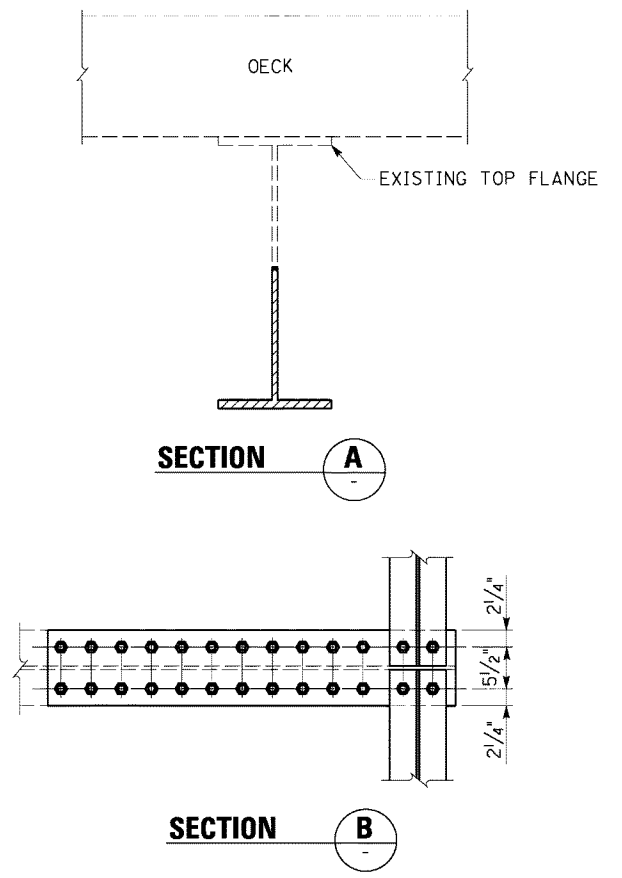
MicroStation v8.1i.7.443



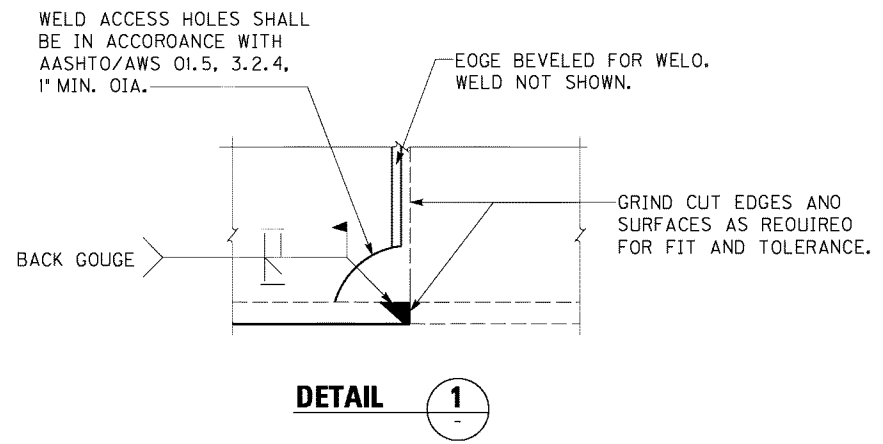
**PROPOSED STRINGER ELEVATION**



**PROPOSED STRINGER SECTION**



**STRINGER T CANTILEVER AND DIAPHRAGM REPAIRS AT FLOORBEAM m OVER PIER NO. 8**



**DETAIL 1**

**NOTES:**

- ① MAINTAIN SHORING THROUGH INSTALLATION OF REPAIRS
- ② REPLACE REMOVED STRINGER SECTION WITH SECTIONS FABRICATED FROM W18x55 OR W19x27.5.
- ③ PROVIDE AND INSTALL CONNECTION ANGLES MATCHING SIZE AND CONFIGURATION OF EXISTING ANGLES.

REVISION		DATE
DATE: OCT. 19, 2011	CHECKED BY	
DESIGNED BY: GCG	WAH	
DETAILED BY: DDE	GCG	
<b>Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE: <b>I-65</b>	CROSSING: <b>RIVERSIDE DRIVE</b>	
<b>STR. T, CANTILEVER m REPAIRS</b>		
ITEM NUMBER	PREPARED BY	SHEET NO.
5-801.00	<b>PARSONS BRINCKERHOFF</b>	<b>S16</b>
		DRAWING NO.

INDOT BRIDGE FILE NO. I-65-4811 B

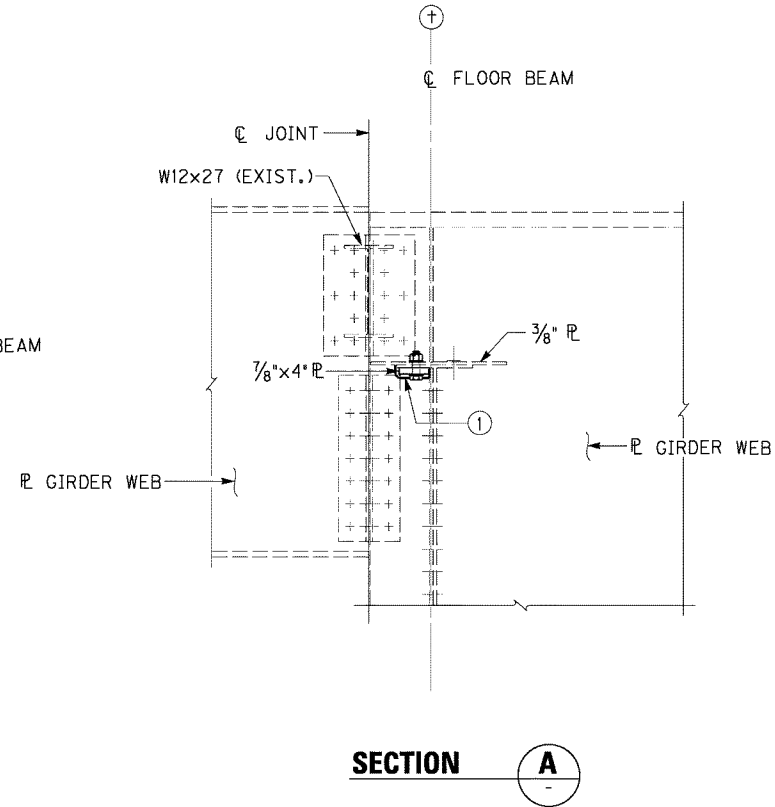
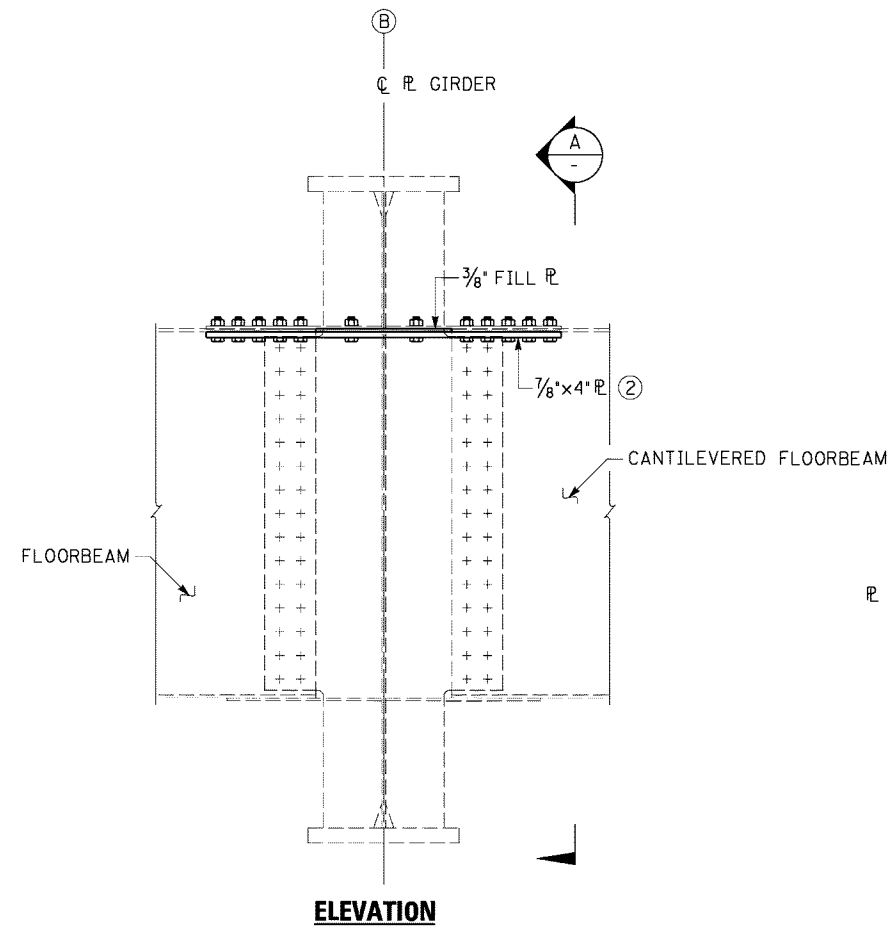


FILE NAME: C:\PROJECTS\35676\GDS\K3FP002.DGN

USER: Elgrtdgd  
DATE PLOTTED: October 17, 2011

E-SHEET NAME:

MicroStation v8.1i.7.443



**NOTES:**

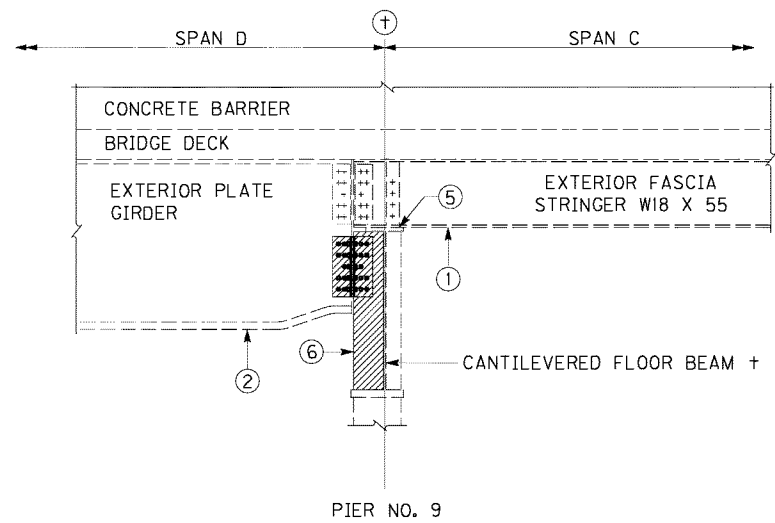
- ① SLOT WEB WITH 1" MIN. DIA. CORNERS TO PASS SPLICE PLATE.
- ② FIELD VERIFY LENGTH OF SPLICE PLATE TO MATCH COMBINED EXTENT OF EXISTING TOP FLANGE SPLICE PLATES.
- ③ ALL SHORING SHALL REMAIN IN PLACE UNTIL ALL REPAIRS ARE COMPLETED.

INDOT BRIDGE FILE NO. I-65-4811 B

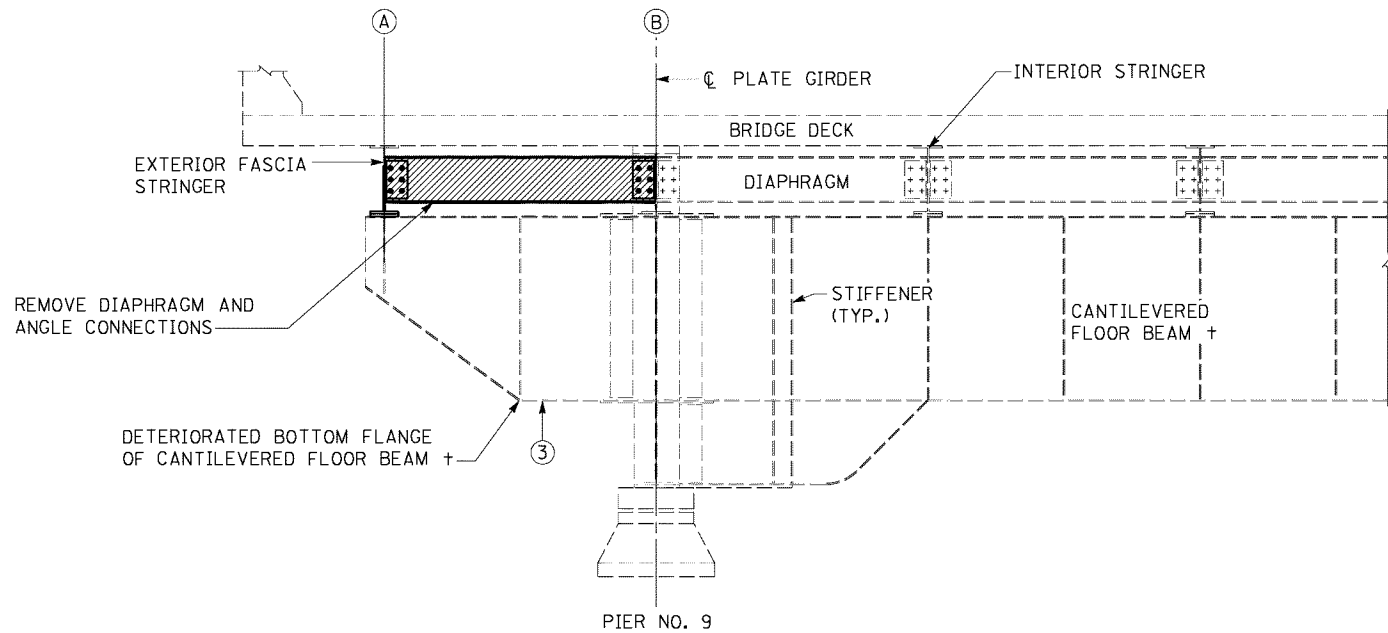
ITEM NUMBER	5-801.00
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REVISION		DATE
DATE: OCT. 19, 2011	CHECKED BY	
DESIGNED BY: GCG	WAH	
DETAILED BY: DDE	GCG	
<b>Commonwealth of Kentucky</b> DEPARTMENT OF HIGHWAYS		
COUNTY <b>JEFFERSON</b>		
ROUTE <b>I-65</b>	CROSSING <b>RIVERSIDE DRIVE</b>	
<b>STR. A, CANTILEVER &amp; REPAIRS</b>		
PREPARED BY <b>PARSONS BRINCKERHOFF</b>		SHEET NO. <b>S18</b> DRAWING NO.

FILE NAME: C:\PROJECTS\35676\GDS\K355004.DGN  
 USER: Elgr1dgd  
 DATE PLOTTED: October 4, 2011  
 E-SHEET NAME:  
 MicroStation v8.1i.7.443



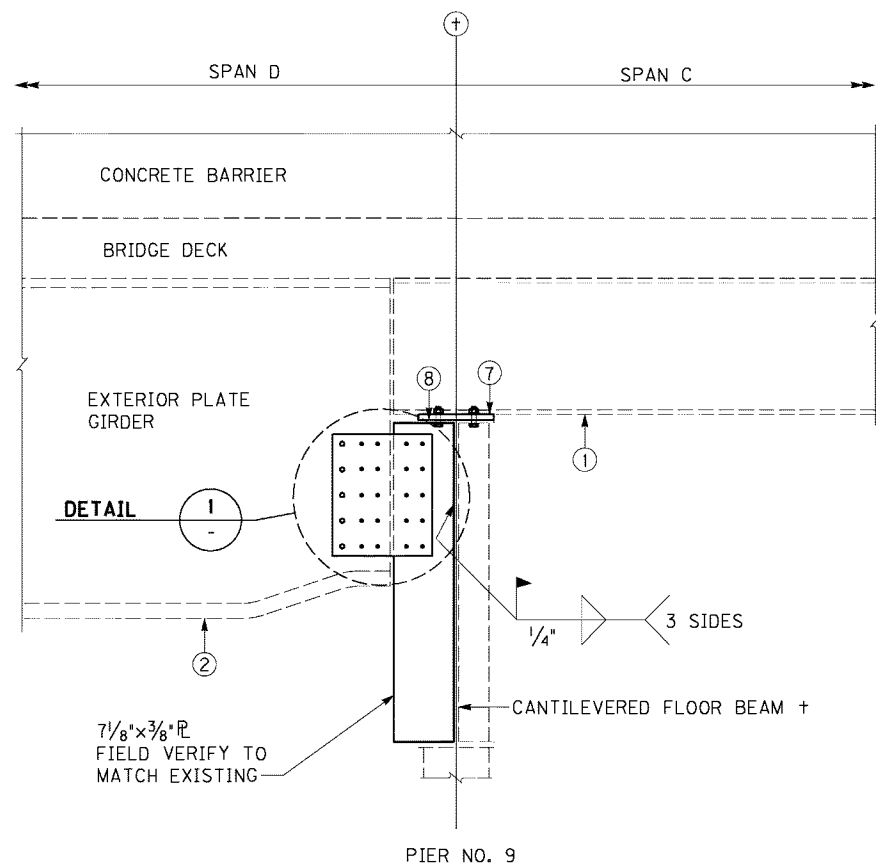
**PROPOSED GIRDER AND STRINGER ELEVATION**



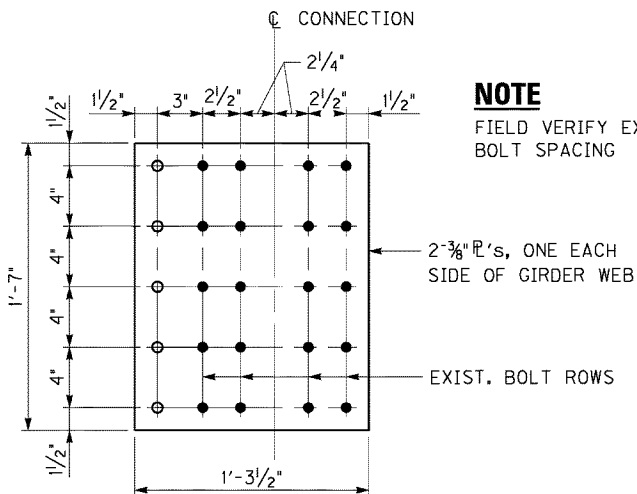
**PROPOSED DIAPHRAGM AND CANTILEVER SECTION**

**WEST FACIA STRINGER AND CANTILEVER OVER PIER NO. 9 SPLICE DETAILS**

▨ - MATERIAL TO BE REMOVED/REPLACED



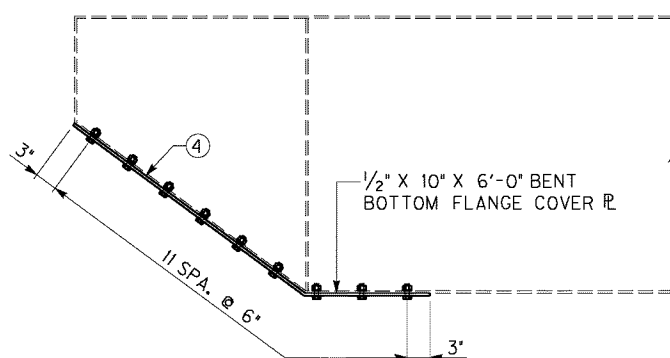
**PROPOSED STRINGER AND GIRDER CONNECTION REPAIR**



**PROPOSED CONNECTION PLATE**

**DETAIL 1**

- - HOLES TO MATCH EXISTING CONNECTION
- - ADDITIONAL BOLT HOLES



**PROPOSED CANTILEVER REPAIR**

**NOTES:**

- ① PROVIDE SHORING CAPABLE OF SUPPORTING UP TO 25,000 LBS. UNDER STRINGER.
- ② PROVIDE SHORING CAPABLE OF SUPPORTING UP TO 125,000 LBS. UNDER PLATE GIRDER PRIOR TO CONNECTION REPAIR.
- ③ PROVIDE SHORING CAPABLE OF SUPPORTING UP TO 5,000 LBS. UNDER CANTILEVER PRIOR TO CANTILEVER REPAIR.
- ④ CANTILEVER BOTTOM FLANGE COVER PLATE SHALL BE INSTALLED AFTER CANTILEVER SPLICE REPAIR PLATE OF SHEET 18 IS INSTALLED AND SHORING OF NOTE 3 IS REMOVED.
- ⑤ REMOVE BOLTS AND BEARING PLATE.
- ⑥ REMOVE STIFFENER AND GRIND SURFACES SMOOTH.
- ⑦ INSTALL 3/4"x7 1/2"x10" PLATE WITH BOLTS TO MATCH EXISTING.
- ⑧ STRAIGHTEN AND TRUE TOP FLANGE PRIOR TO INSTALLING BEARING PLATE AND STIFFENER.
- ⑨ ALL SHORING SHALL REMAIN IN PLACE UNTIL ALL REPAIRS ARE COMPLETED.

INDOT BRIDGE FILE NO. I-65-4811 B

ITEM NUMBER	5-801.00
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REVISION		DATE
DATE: OCT 19, 2011	CHECKED BY	
DESIGNED BY: GCG	WAH	
DETAILED BY: DDE	GCG	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
<b>JEFFERSON</b>		
ROUTE I-65	CROSSING RIVERSIDE DRIVE	
<b>STR. A, CANTILEVER &amp; REPAIRS</b>		
PREPARED BY <b>PARSONS BRINCKERHOFF</b>		SHEET NO. S17
		DRAWING NO.