

I-29 & I-35 - INTERSTATE  
US 71 - PRIMARY ARTERIAL

THIS SHALL BE A FULLY CONTROLLED ACCESS HIGHWAY. NO ABUTTING OWNER SHALL HAVE THE RIGHT OF DIRECT ACCESS TO SAID HIGHWAY OR ITS RIGHT-OF-WAY EXCEPT THAT ACCESS WILL BE PERMITTED TO ANY ADJACENT OUTER ROADWAY OR SERVICE ROAD TO WHICH ACCESS IS NOT SPECIFICALLY PROHIBITED BY THE SPECIAL SYMBOL DENOTING "NO RIGHT OF ACCESS SHOWN ON THE PLANS. NO ACCESS WILL BE PERMITTED FROM OUTER ROADWAYS AND SERVICE ROADS TO THROUGHWAYS EXCEPT ALONG ROUTES CONSTRUCTED FOR THAT PURPOSE. OUTER ROADWAYS AND SERVICE ROADS, AS THE CASE MAY BE, ARE SO DESIGNATED ON THE PLANS.

|                                                                                   |                                                                                                        |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|  | BEGINNING AND ENDING OF CONTROLLED ACCESS                                                              |
|  | CONTROLLED ACCESS                                                                                      |
|  | NO-RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES. |
|  | TEMPORARY ACCESS THROUGH FUTURE NO RIGHT OF ACCESS.                                                    |

## HIGH VOLTAGE TOWER

NOTE: DASHED OR OPEN SYMBOLS INDICATE  
EXISTING FEATURES

DESIGNED BY: MF  
DRAFTED BY: SA  
CHECKED BY: PE

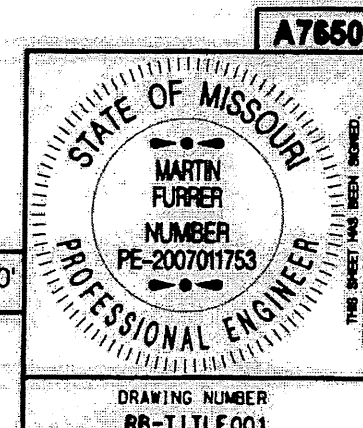
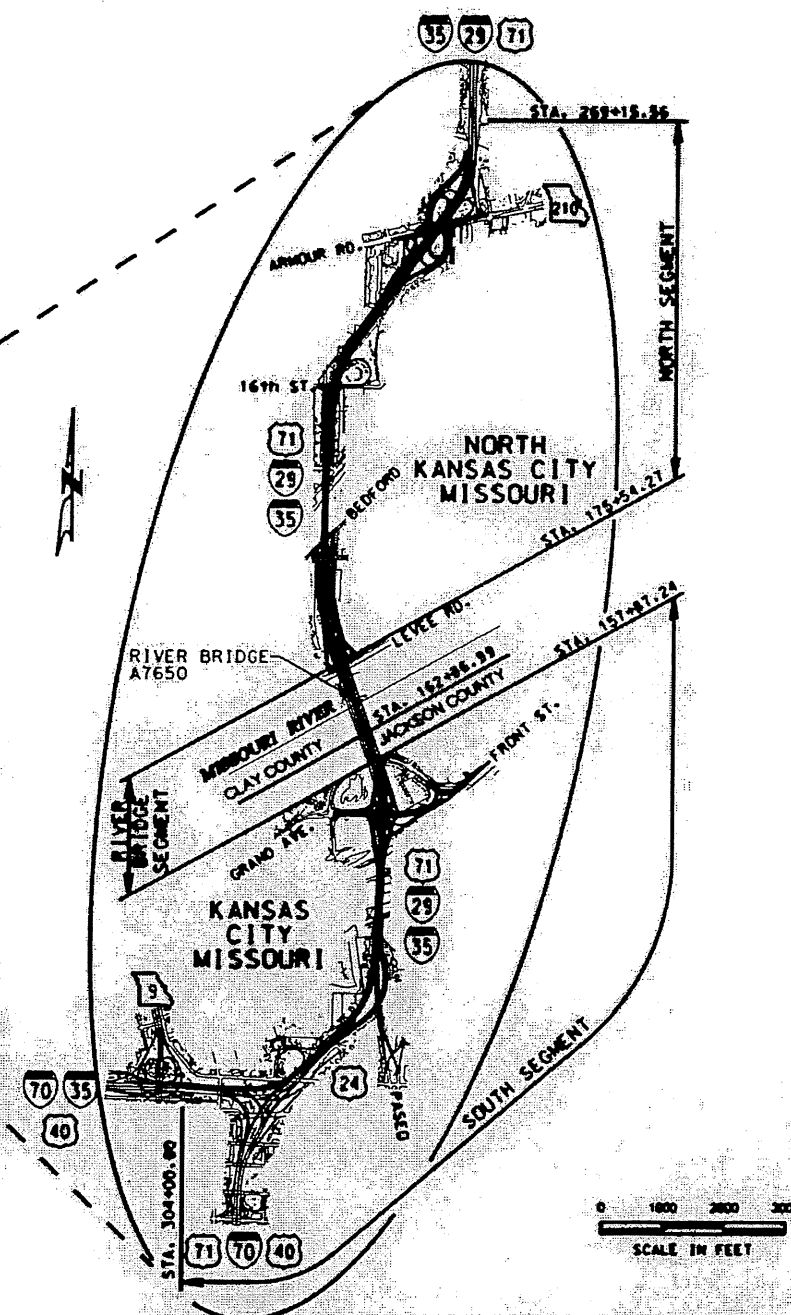


| ISSUE RECORD |                           |         |
|--------------|---------------------------|---------|
| NO.          | DESCRIPTION               | DATE    |
| A            | 90%                       | 15MAY08 |
| 1            | RELEASED FOR CONSTRUCTION | 16JUN08 |



THE KcICON PROJECT  
RIVER BRIDGE  
TITLE SHEET

|               |             |               |
|---------------|-------------|---------------|
| ROUTE<br>1-29 | STATE<br>MO | DISTRICT<br>4 |
| JOB NO.       |             | J411507       |
| COUNTY        |             | JACKSON-CLAY  |

[illegible]

PCC Released for Construction 2008.06.20 15:14:12 -05'00'

CEMEX'S NEED FOR LEADS GILL

File Name: C:\PW\_WORKING\_XM\PTG\30465\DNS\0844\RB-TITLE.DGN  
User: 30465 Time Plotted: 3/24/94 PM



File Name: C:\PW\WORKING\_XHP\TG\00042995\DKS10844\NR-0NPE-001.DGN  
User: C0042995  
Time Plotted: 5:32:32 PM  
Date Plotted: 1/26/2009  
Pen Table: KCICON.TBL

- File Name: C:\PW\WORKING\_XHP\TG\00042995\DKS10844\NR-0NPE-001.DGN  
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Time Plotted: 5:32:32 PM  
Date Plotted: 1/26/2009  
Pen Table: KCICON.TBL

File Name: C:\PW\WORKING\_XHP\TG\00042995\DKS10844\NR-0NPE-001.DGN  
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Date Plotted: 1/26/2009  
Pen Table: KCICON.TBL

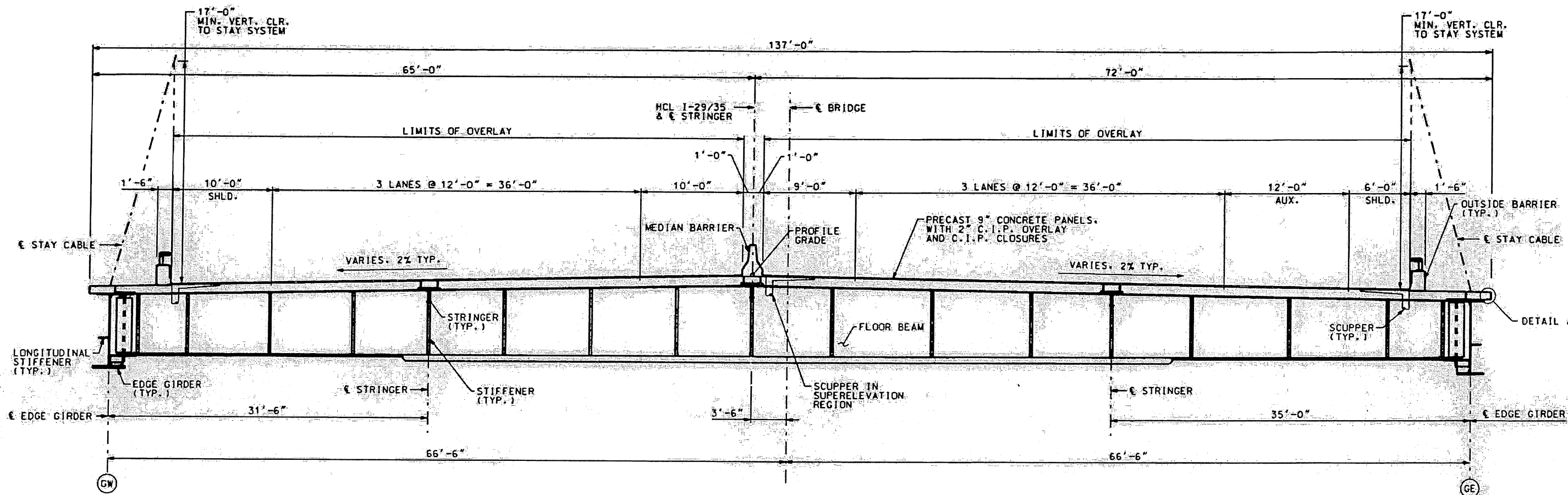


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Pen Table: KCICON.TBL

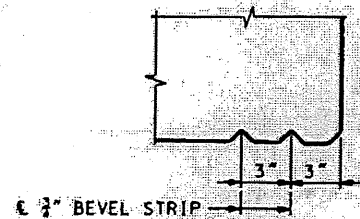
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Date Plotted: 1/26/2009  
Pen Table: KCICON.TBL



|               |              |               |
|---------------|--------------|---------------|
| ROUTE<br>1-29 | STATE<br>MO  | DISTRICT<br>4 |
| JOB NO.       | J411507      |               |
| COUNTY        | JACKSON-CLAY |               |



MAIN SPANS  
(LOOKING UPSTATION)



DETAIL A  
(TYP. BOTH SIDES OF BRIDGE)

**NOTES:**  
FOR DECK CROSS-SLOPES, SEE SHEET SRDPRO11.  
PROFILE GRADE LIES AT PROJECTED TOP OF OVERLAY.

PCC Released for Construction 2009.01.30 09:43:04 -06'00'

DESIGNED BY: PE  
DRAFTED BY: HK  
CHECKED BY: MF



| ISSUE RECORD |                           |         |
|--------------|---------------------------|---------|
| NO.          | DESCRIPTION               | DATE    |
| 1            | RELEASED FOR CONSTRUCTION | 29JAN09 |



THE KCICON PROJECT  
RIVER BRIDGE  
TYPICAL CROSS SECTIONS - MAIN SPANS

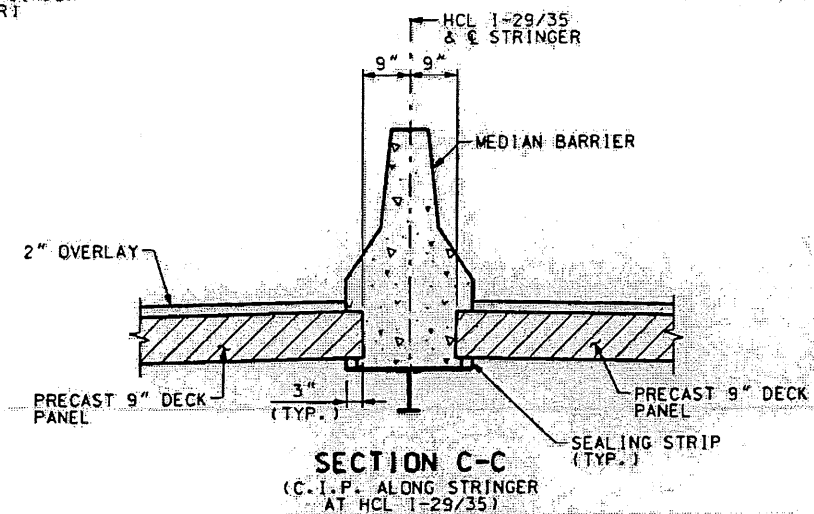
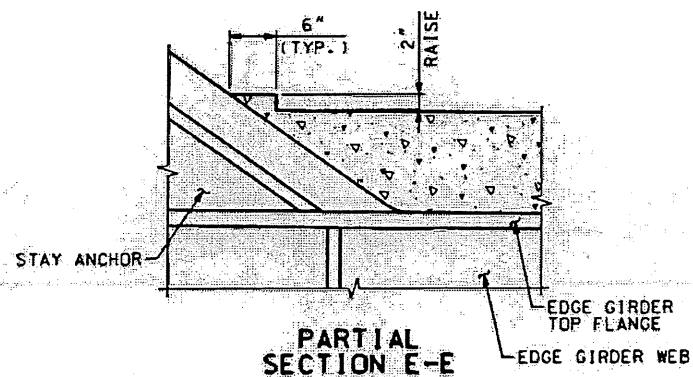
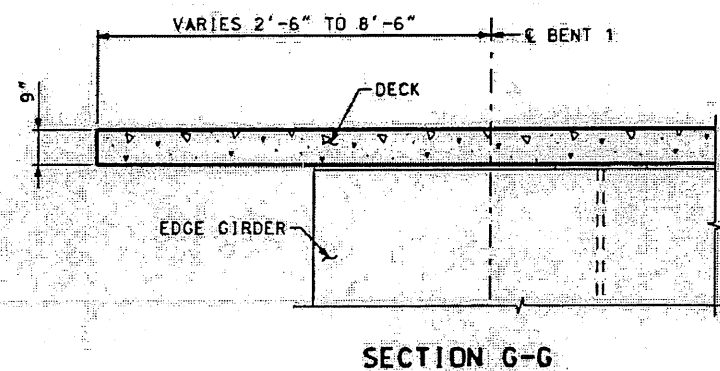
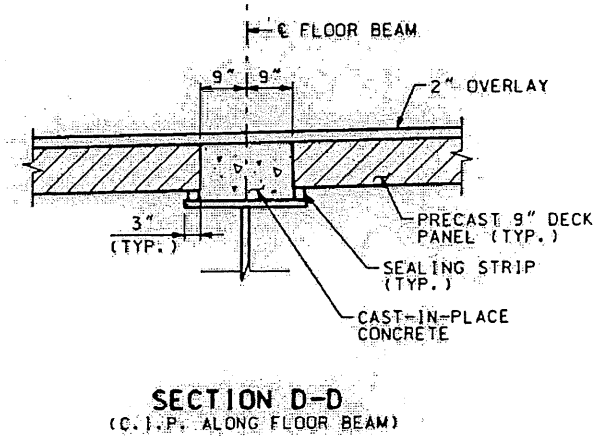
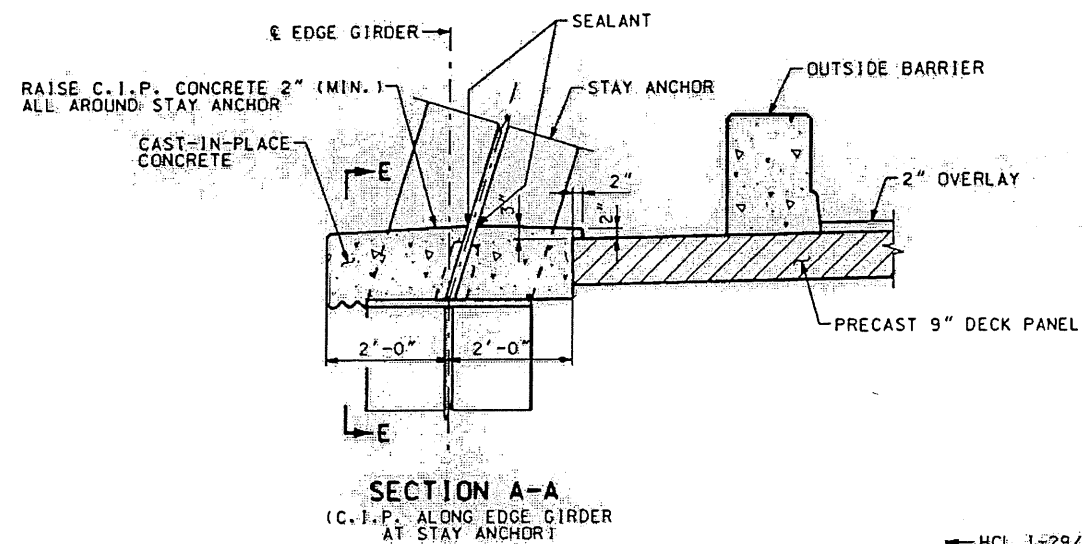
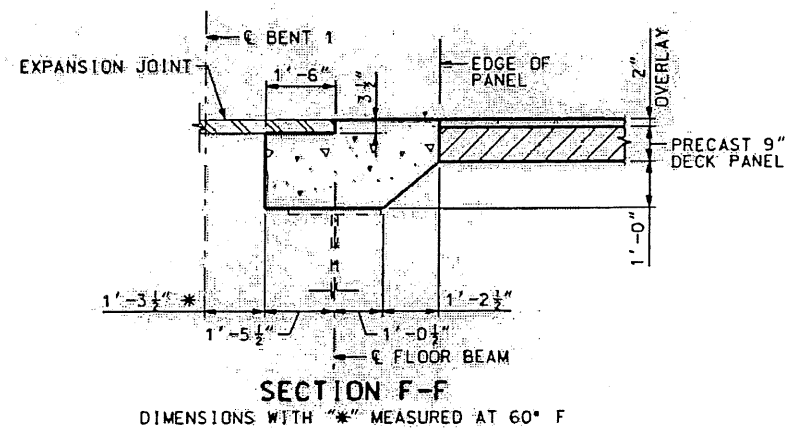
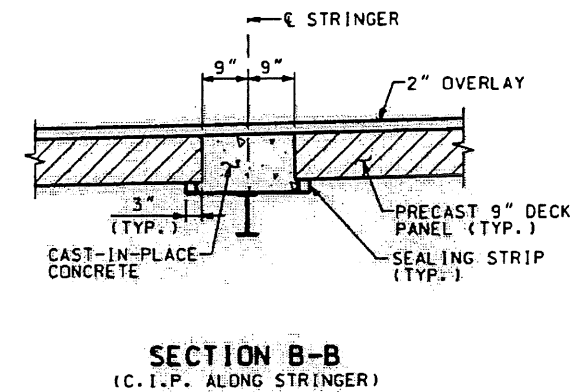
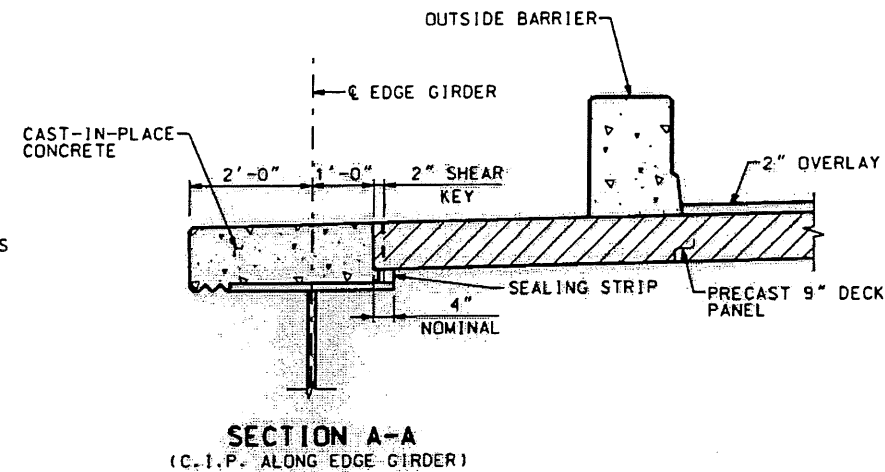
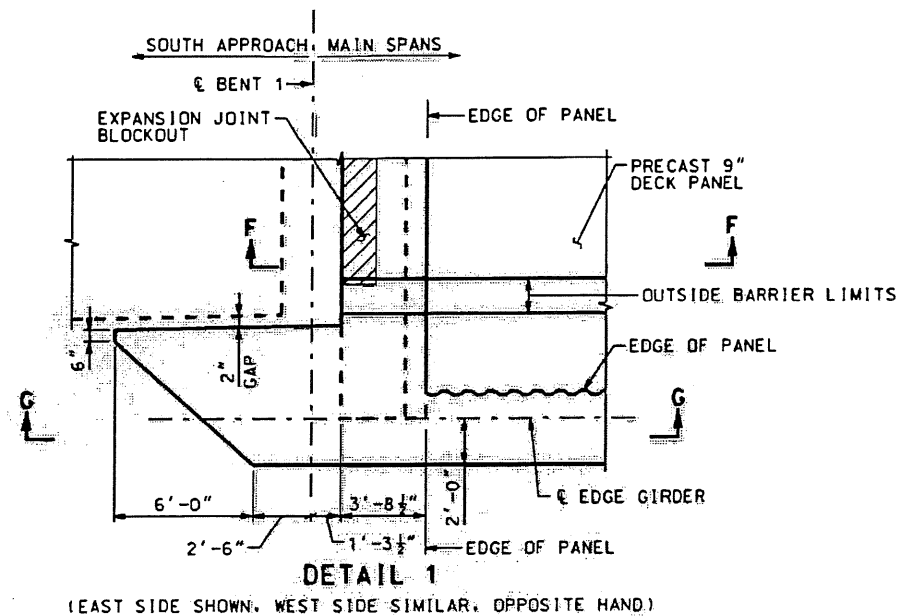
**A7650**

STATE OF MISSOURI  
MARTIN FURBER  
NUMBER  
PE-2007011753  
PROFESSIONAL ENGINEER

DRAWING NUMBER  
RB-DKXS001

THIS SHEET HAS BEEN SEERD,  
SEALED AND DATED ELECTRONICALLY

File Name: C:\PWP\WORKING\XMAPT\G\000439980\DKXS10844RB-DKXS-001.DGN  
User: C00439980  
Time Plotted: 2/22/09 2:22:34 PM  
Date Plotted: 1/23/2009  
Pen Table: KCICON.TBL



DESIGNED BY: PY  
DRAFTED BY: HK  
CHECKED BY: GH

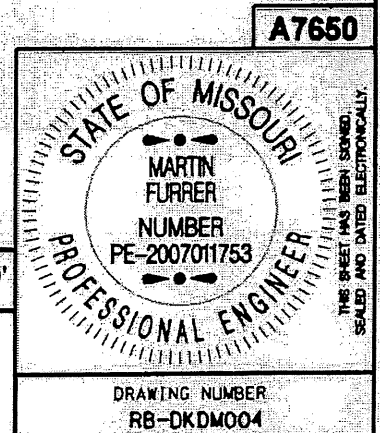


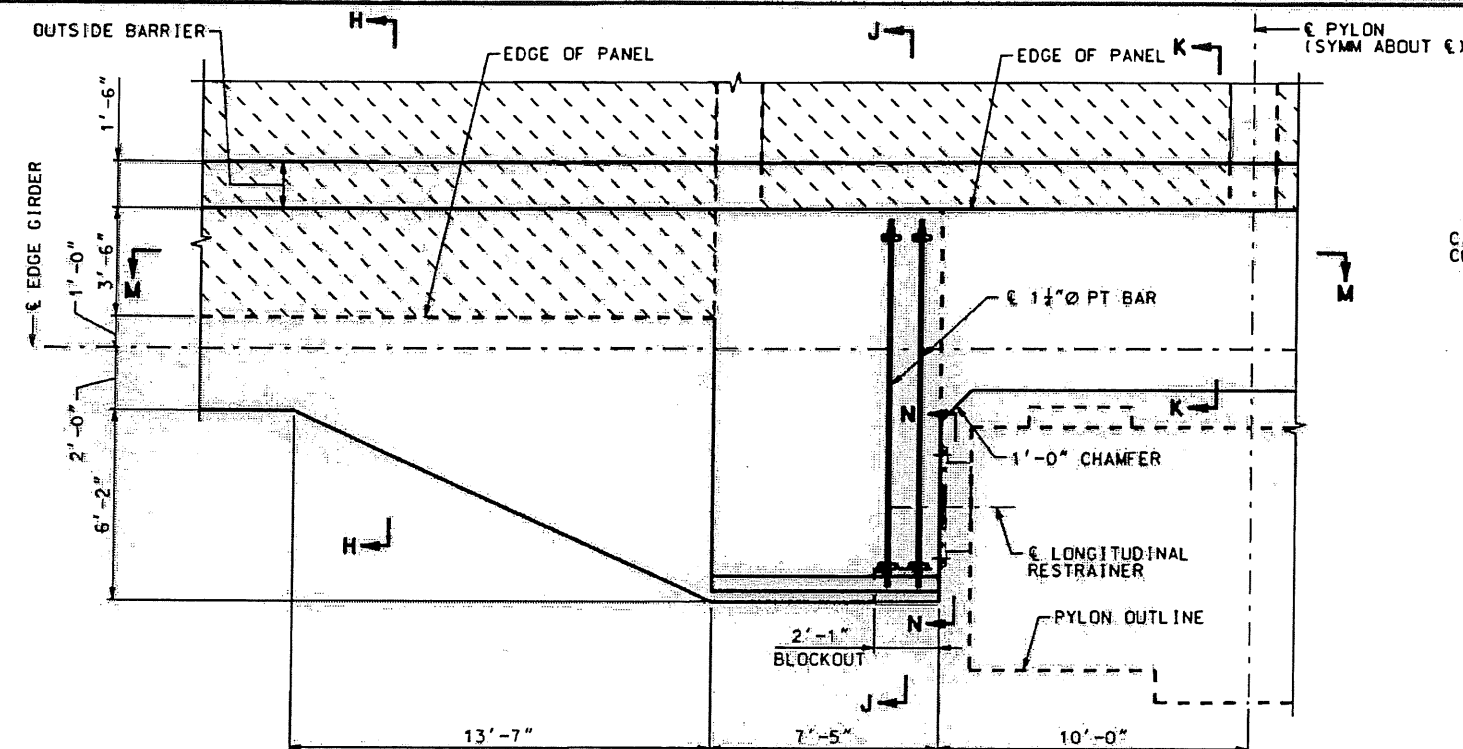
| ISSUE RECORD |                                 |         |
|--------------|---------------------------------|---------|
| NO.          | DESCRIPTION                     | DATE    |
| A            | 90% MAIN SPANS SUPERSTRUCTURE   | 31MAR09 |
| 1            | RFC - MAIN SPANS SUPERSTRUCTURE | 21APR09 |



PCC Released for Construction 2009.04.23 14:26:38 -05'00'

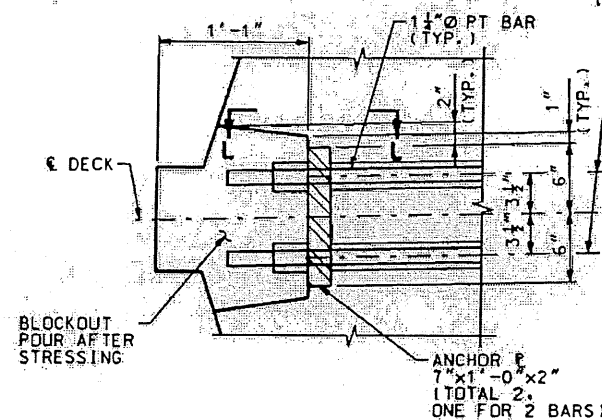
THE KcICON PROJECT  
RIVER BRIDGE  
MAIN SPANS DECK DETAILS 1



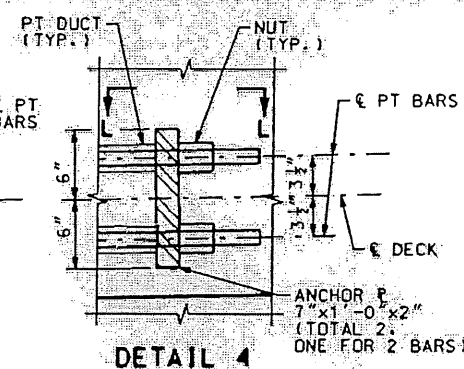


## DETAIL 2

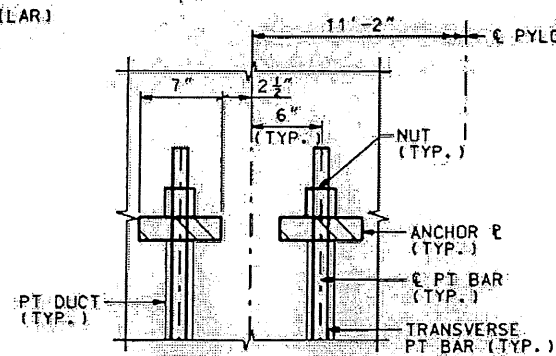
(SOUTH EAST CORNER SHOWN. OTHER CORNERS SIMILAR)



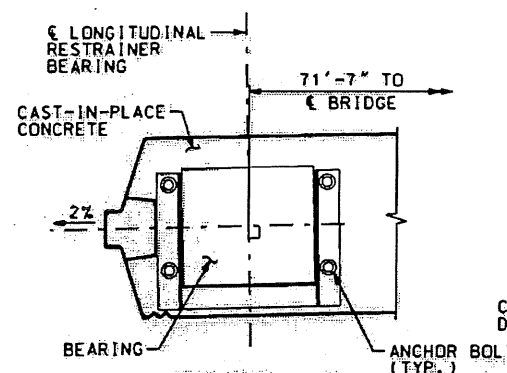
DETAIL 6



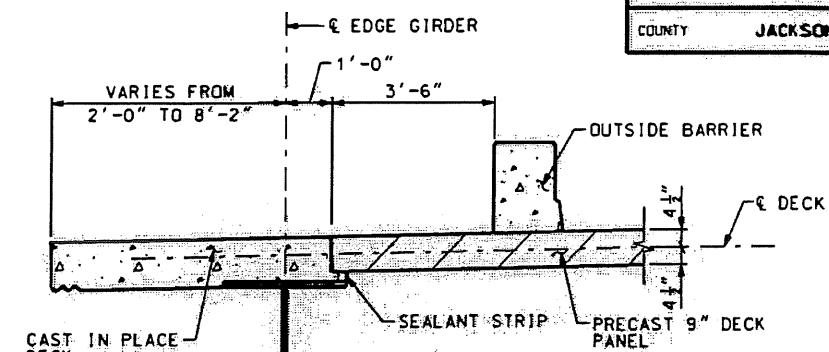
# DETAIL 4



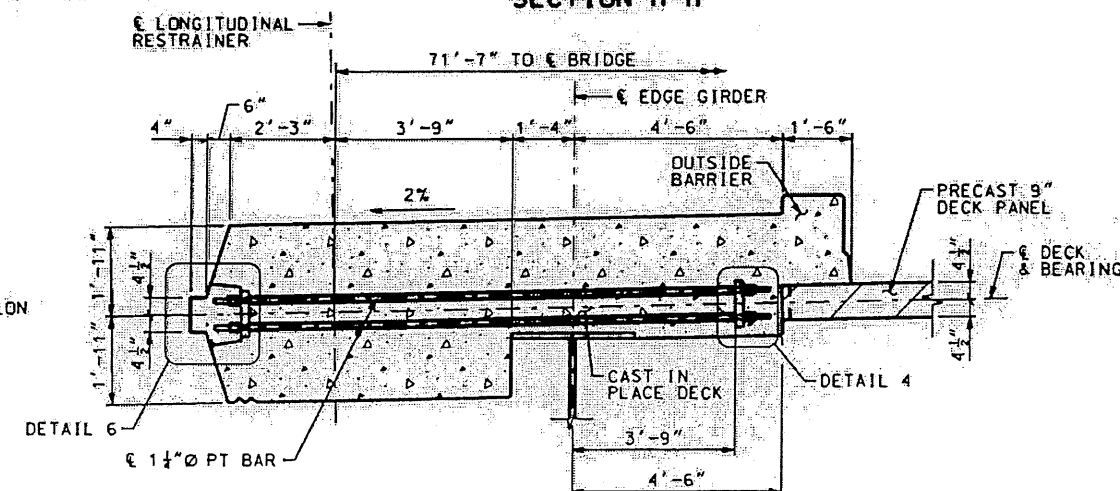
## SECTION L-L



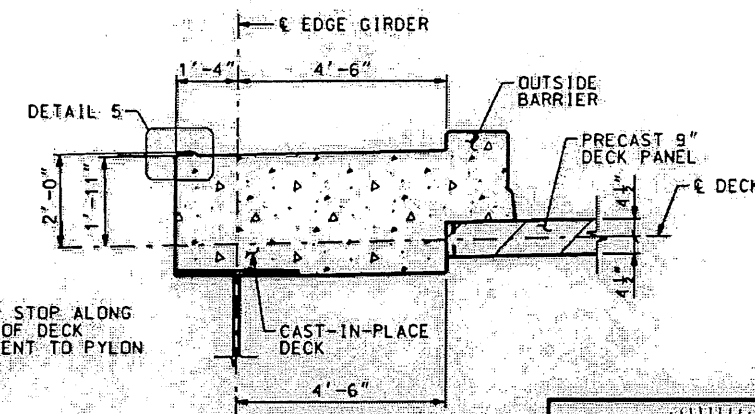
## SECTION N-N



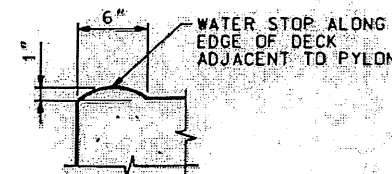
## SECTION H-H



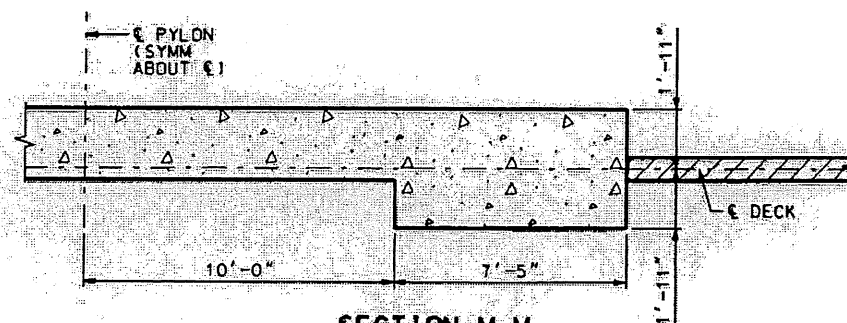
SECTION J-J



## SECTION K-K



DETAIL 5



## SECTION M-M

**NOTES:**

ALL TRANSVERSE PT BARS ARE 1"Ø STRESSED TO 125 KIPS.  
TRANSVERSE PT BARS SHALL BE STRESSED FROM OUTSIDE  
AFTER THE C.I.P. CONCRETE REACHES A MINIMUM STRENGTH  
OF 5500 PSI.

### STRESSING SEQUENCE FOR A GROUP OF 4 BARS:

STEP 1: STRESS ALL PT BARS TO 50% JACKING FORCE  
FOLLOWING A DIAGONAL PATTERN.  
STEP 2: STRESS TO 100% FOLLOWING A DIAGONAL  
PATTERN.

1 1/2" Ø PT BARS SHALL BE SUPPLIED WITH NON-METALLIC DUCT AND ANCHOR GROUT CAPS AND GROUT TUBING PROVIDED FOR END-TO-END GROUTING IN ACCORDANCE WITH THE SPECIAL PROVISION FOR POST-TENSIONING.

DESIGNED BY: PY  
DRAFTED BY: HK  
CHECKED BY: GH

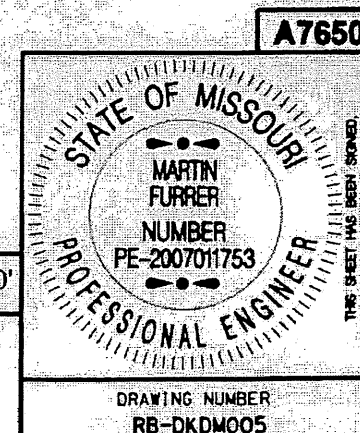


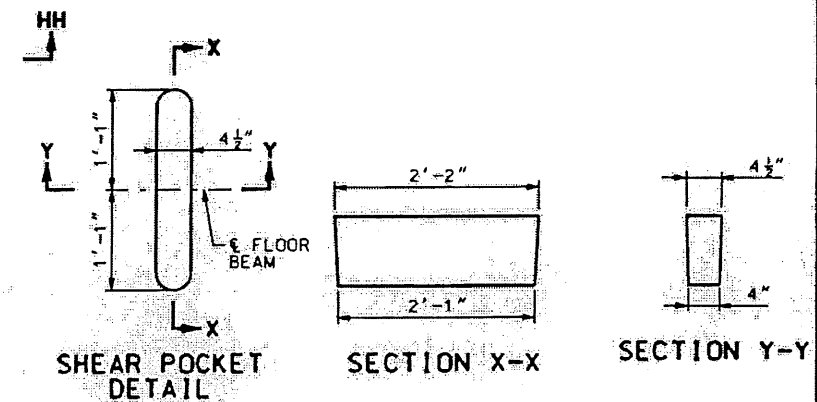
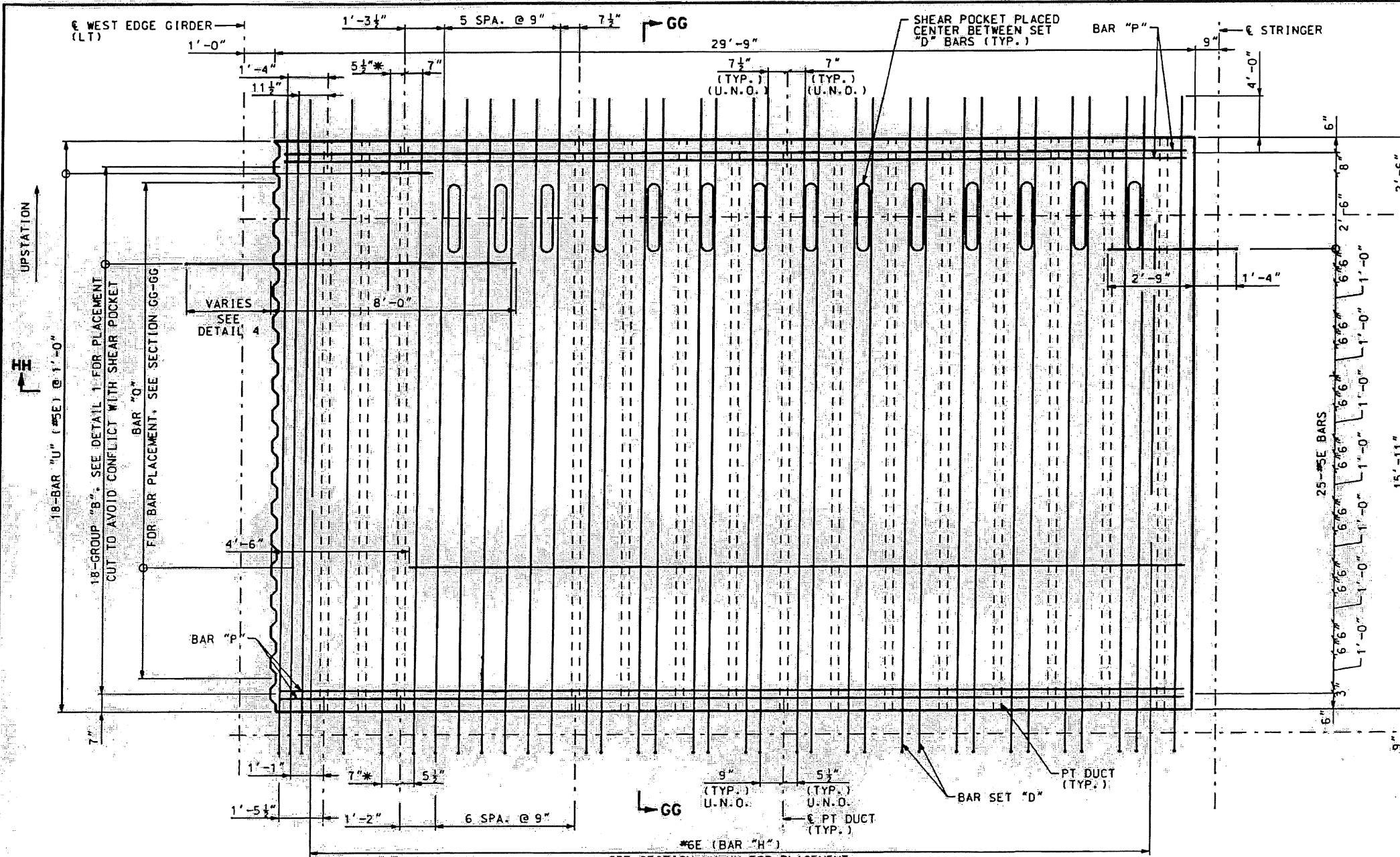
| ISSUE RECORD |                                 |         |
|--------------|---------------------------------|---------|
| NO.          | DESCRIPTION                     | DATE    |
| A            | 90% MAIN SPANS SUPERSTRUCTURE   | 31MAR05 |
| 1            | RFC - MAIN SPANS SUPERSTRUCTURE | 21APR05 |



PCC Released for Construction 2009.04.23 14:26:39 -05'00'

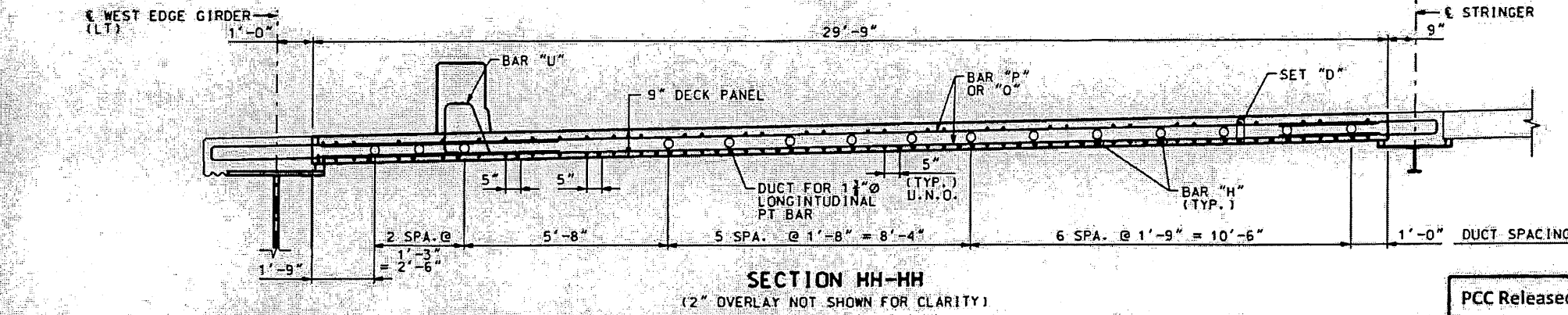
THE KcICON PROJECT  
RIVER BRIDGE  
MAIN SPANS DECK DETAILS II





**NOTES:**  
BARS "U" SHALL BE CAST INTO THE PANELS. DRILLING OF BARS INTO THE PANEL IS NOT PERMITTED.

**PRECAST DECK PANEL PLAN  
TYPE I**



**SECTION HH-HH  
(2\"/>**

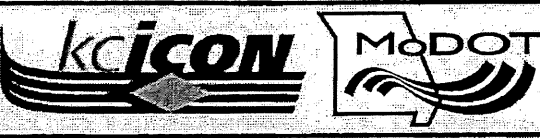
PCC Released for Construction 2009.04.23 14:26:43 -05'00'

File Name: C:\PV\_WORKING\XMP\TGN\0043062\0HS10844\RB-DKPN-007.DGN  
User: P0043062  
Date Plotted: 4/21/2009  
Time Plotted: 4:24:41 PM  
Pen Tables: KCICON.TBL

DESIGNED BY: PY  
DRAFTED BY: HK  
CHECKED BY: GH



| ISSUE RECORD |                                 |         |
|--------------|---------------------------------|---------|
| NO.          | DESCRIPTION                     | DATE    |
| A            | 90% MAIN SPANS SUPERSTRUCTURE   | 31MAR09 |
| 1            | RFC - MAIN SPANS SUPERSTRUCTURE | 21APR09 |



**THE KCICON PROJECT  
RIVER BRIDGE  
MAIN SPANS PANEL DETAILS VII**

**A7650**

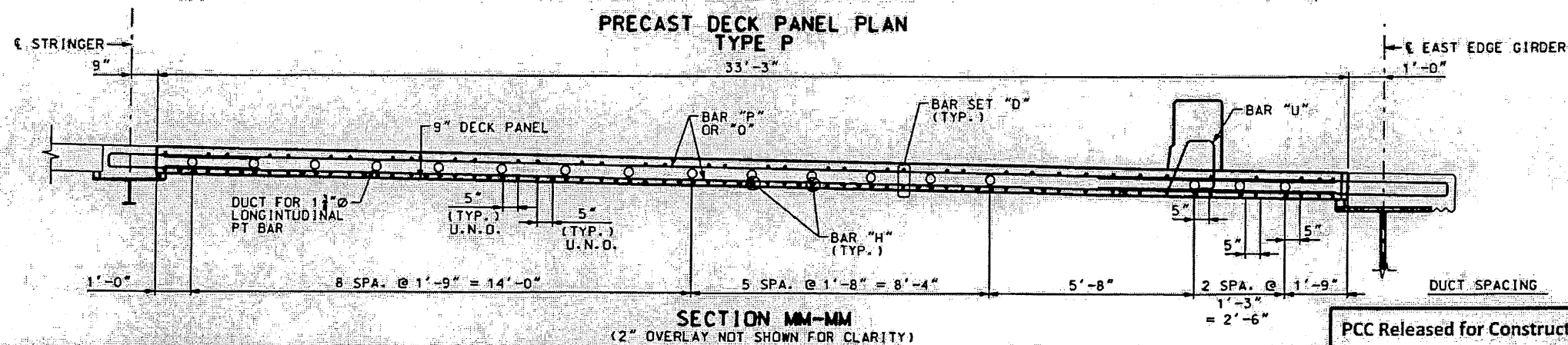
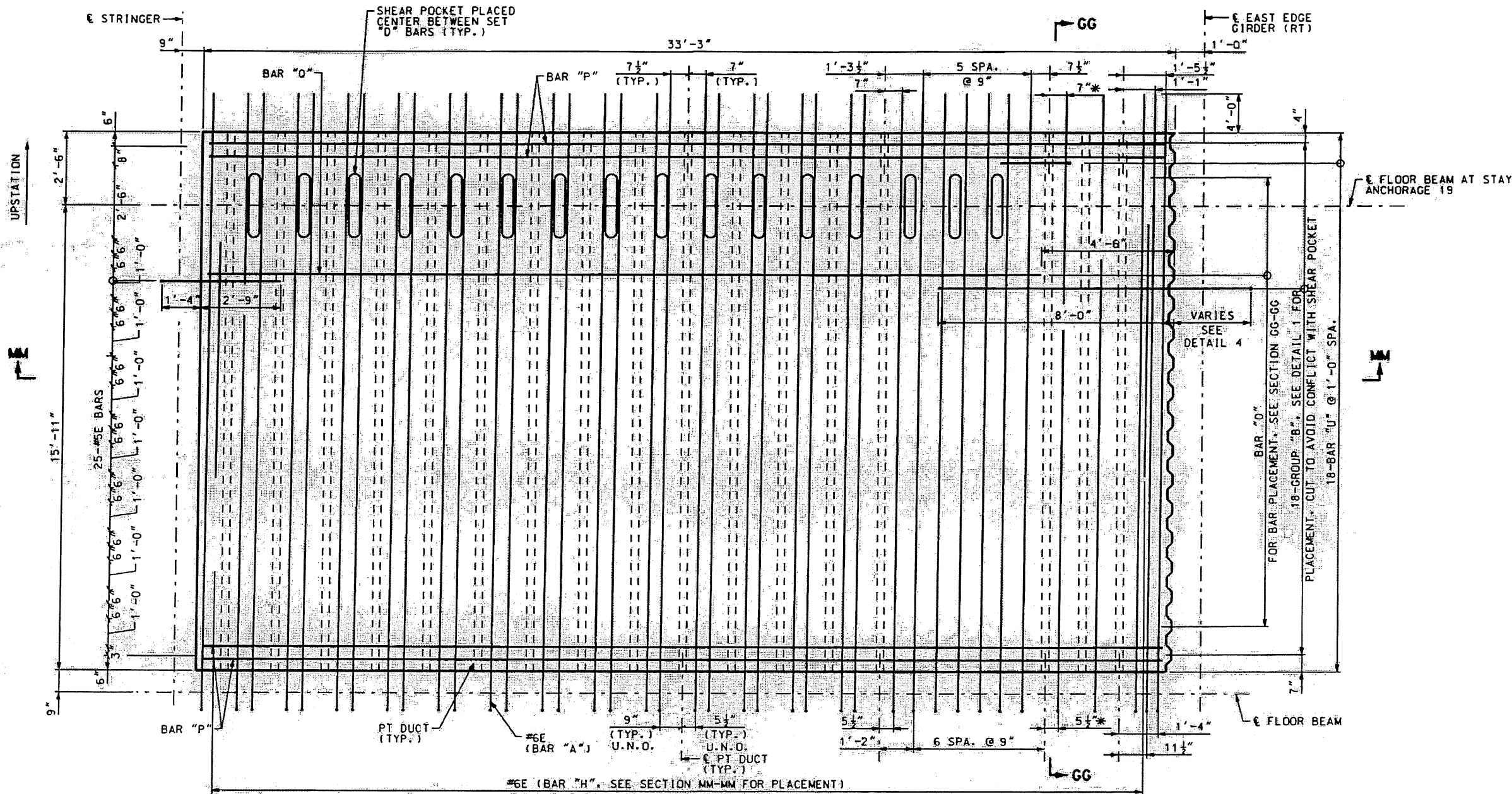
STATE OF MISSOURI

**MARTIN FURRER**  
NUMBER  
PE-2007011753  
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED  
SEALED AND DATED ELECTRONICALLY.

DRAWING NUMBER  
**RB-DKPN007**

|               |              |               |
|---------------|--------------|---------------|
| ROUTE<br>1-29 | STATE<br>MO  | DISTRICT<br>4 |
| JOB NO.       | J411507      |               |
| COUNTY        | JACKSON-CLAY |               |



\* TYPICAL REBAR SPACING BETWEEN 1'-3" PT BAR SPACING.

File Name: C:\P\WORKING\X\N\PTG\004\3062\N\MS10844\RB-DKPN-010.DGN  
 User: P0043062  
 Date Plotted: 4/21/2009  
 Time Plotted: 4:26:27 PM  
 Pen Table: KCI.CON.TBL

DESIGNED BY: PY  
 DRAFTED BY: HK  
 CHECKED BY: GH



| ISSUE RECORD |                                 |         |
|--------------|---------------------------------|---------|
| NO.          | DESCRIPTION                     | DATE    |
| A            | 90% MAIN SPANS SUPERSTRUCTURE   | 31MAR09 |
| 1            | RFC - MAIN SPANS SUPERSTRUCTURE | 21APR09 |



PCC Released for Construction 2009.04.23 14:26:44 -05'00'

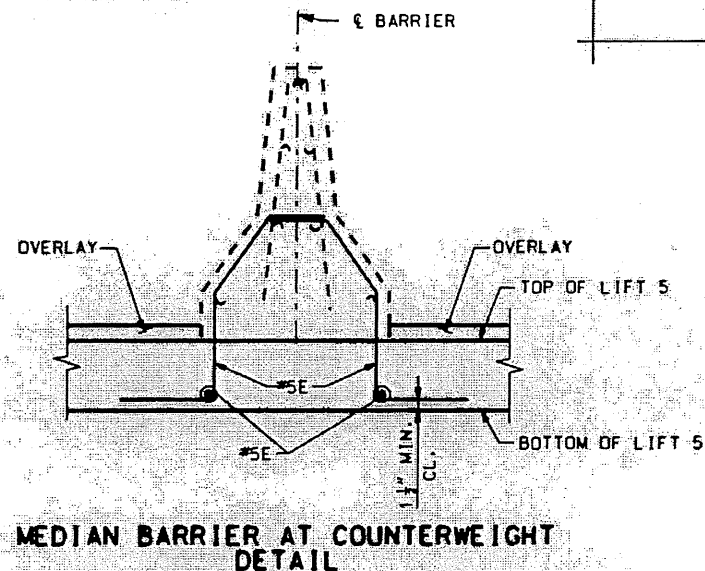
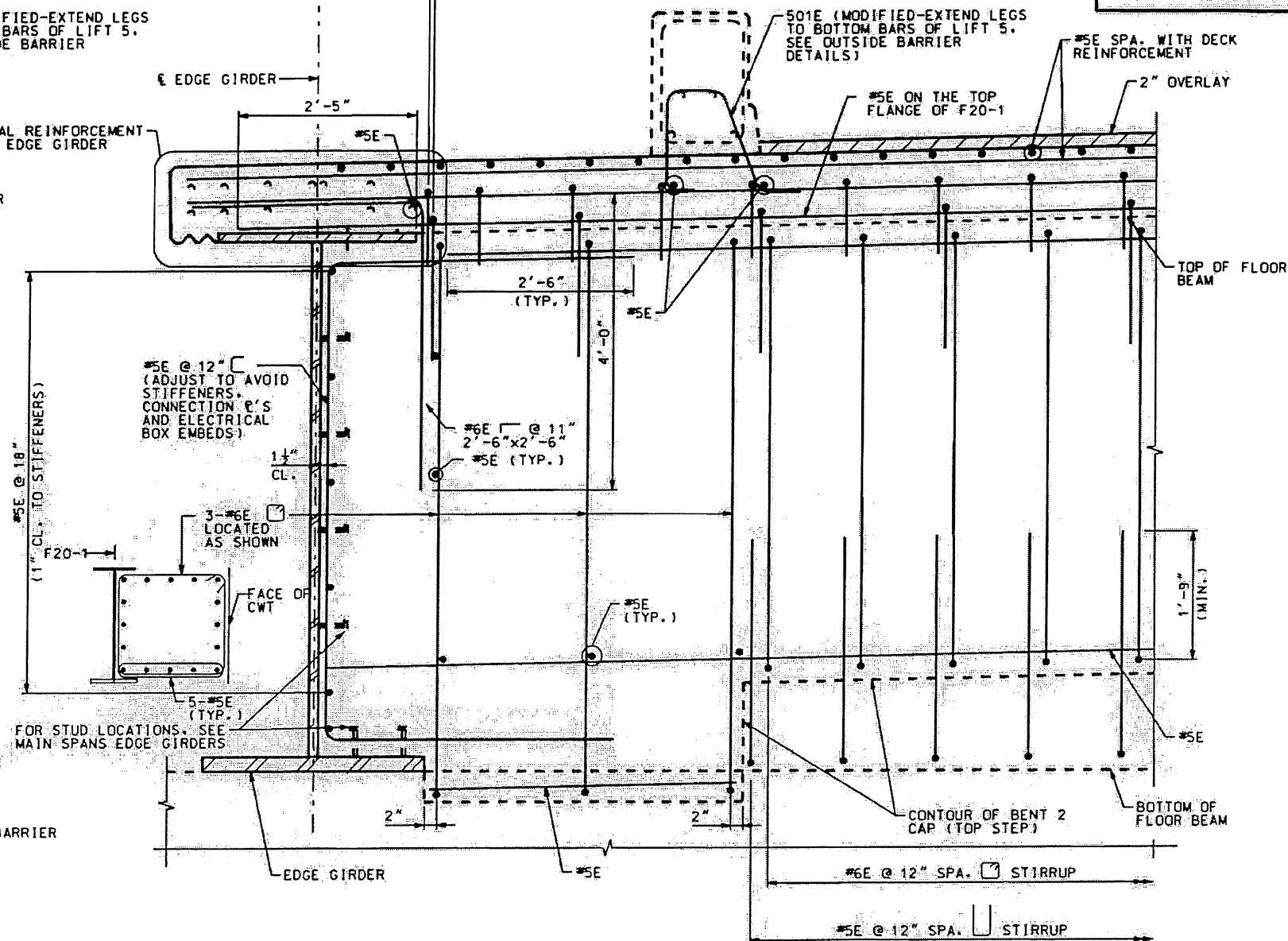
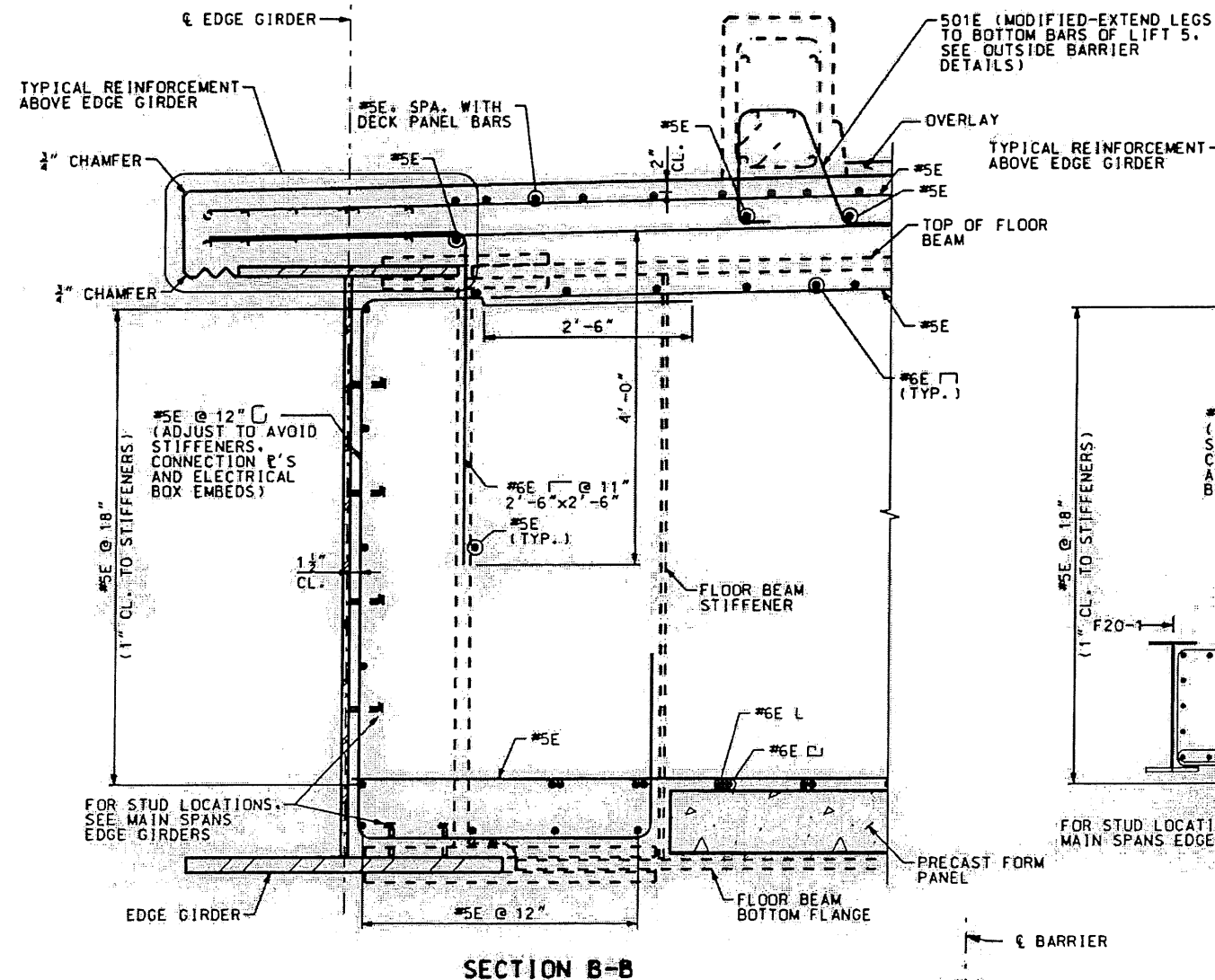
THE KCI CON PROJECT  
 RIVER BRIDGE  
 MAIN SPANS PANEL DETAILS X

**A7650**

STATE OF MISSOURI  
 MARTIN FURRER  
 NUMBER  
 PE-2007011753  
 PROFESSIONAL ENGINEER

DRAWING NUMBER  
 RB-DKPN010

THIS SHEET HAS BEEN WORKED  
 SEAL AND DATED ELECTRONICALLY



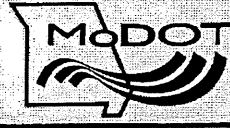
SECTION C-C  
(BENT 2 REINFORCEMENT NOT SHOWN FOR CLARITY)

MEDIAN BARRIER AT COUNTERWEIGHT  
DETAIL

DESIGNED BY: YS  
DRAFTED BY: HK  
CHECKED BY: GH



| ISSUE RECORD |                                 |         |
|--------------|---------------------------------|---------|
| NO.          | DESCRIPTION                     | DATE    |
| A            | 90% MAIN SPANS SUPERSTRUCTURE   | 31MAR09 |
| 1            | RFC - MAIN SPANS SUPERSTRUCTURE | 21APR09 |



PCC Released for Construction 2009.04.23 14:26:37 -05'00'

THE KcICON PROJECT  
RIVER BRIDGE  
MAIN SPANS COUNTERWEIGHT DETAILS IV

**A7650**

STATE OF MISSOURI

MARTIN FURRER

NUMBER

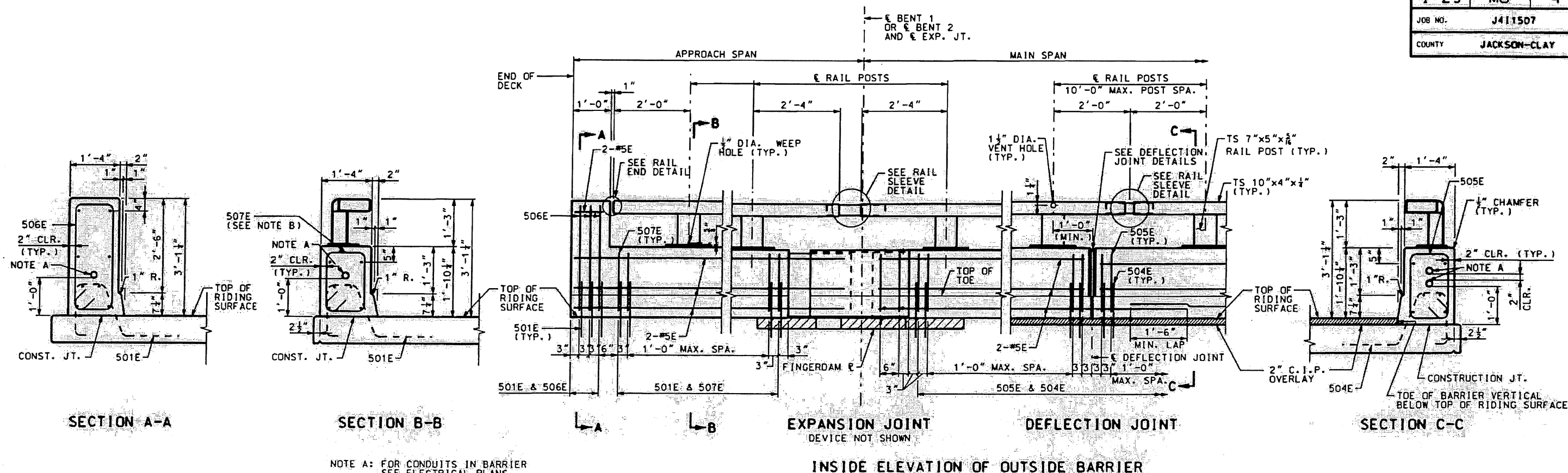
PE-2007011753

PROFESSIONAL ENGINEER

DRAWING NUMBER  
RB-CTDT004

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User: P0043062  
Time Plotted: 4:38:16 PM  
Date Plotted: 4/21/2009  
Pen Table: KcICON.TBL

|                        |             |               |
|------------------------|-------------|---------------|
| ROUTE<br>1-29          | STATE<br>MO | DISTRICT<br>4 |
| JOB NO.<br>J411507     |             |               |
| COUNTY<br>JACKSON-CLAY |             |               |

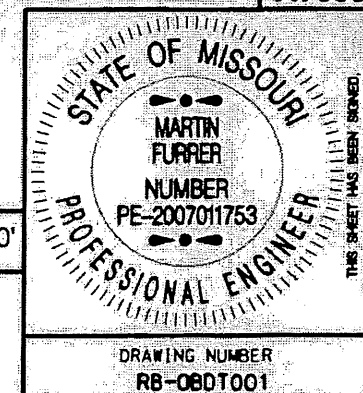


JOINT LOCATION TABLE

| JOINT LOCATION | JOINT TYPE | STATION @ JOINT | JOINT LOCATION | JOINT TYPE | STATION @ JOINT | JOINT LOCATION | JOINT TYPE | STATION @ JOINT | JOINT LOCATION | JOINT TYPE | STATION @ JOINT | JOINT LOCATION | JOINT TYPE | STATION @ JOINT |
|----------------|------------|-----------------|----------------|------------|-----------------|----------------|------------|-----------------|----------------|------------|-----------------|----------------|------------|-----------------|
| SPAN 1         | D          | 158+33.27       | SPAN 2 CONT.   | D          | 162+13.27       | SPAN 3 CONT.   | D          | 166+13.27       | SPAN 4 CONT.   | D          | 170+04.77       | SPAN 6 CONT.   | D          | 173+99.27       |
|                | D          | 158+53.27       |                | D          | 162+33.27       |                | D          | 166+33.27       |                | D          | 170+24.77       |                | D          | 174+19.27       |
|                | D          | 158+73.27       |                | D          | 162+53.27       |                | D          | 166+53.27       |                | D          | 170+44.77       |                | D          | 174+36.44       |
|                | D          | 158+93.27       |                | D          | 162+73.27       |                | D          | 166+73.27       |                | D          | 170+64.77       |                | D          | 174+48.27       |
|                | D          | 159+13.27       |                | D          | 162+93.27       |                | D          | 166+93.27       |                | D          | 170+82.27       |                | D          | 174+68.27       |
|                | D          | 159+33.27       |                | D          | 163+13.27       |                | D          | 167+13.27       |                | D          | 170+99.27       |                | D          | 174+88.27       |
|                | D          | 159+53.27       |                | D          | 163+33.27       |                | D          | 167+33.27       |                | D          | 171+19.27       |                | D          | 175+08.27       |
| SPAN 2         | EXP        | 159+63.27       | SPAN 3         | D          | 163+53.27       | SPAN 4         | D          | 167+53.27       | SPAN 5         | D          | 171+39.27       | SPAN 6         | D          | 173+79.27       |
|                | D          | 159+73.27       |                | D          | 163+73.27       |                | D          | 167+73.27       |                | D          | 171+59.27       |                | D          | 173+99.27       |
|                | D          | 159+93.27       |                | D          | 163+93.27       |                | D          | 167+93.27       |                | D          | 171+79.27       |                | D          | 173+99.27       |
|                | D          | 160+13.27       |                | D          | 164+13.27       |                | D          | 168+13.27       |                | D          | 171+99.27       |                | D          | 173+99.27       |
|                | D          | 160+33.27       |                | D          | 164+33.27       |                | D          | 168+33.27       |                | D          | 172+19.27       |                | D          | 173+99.27       |
|                | D          | 160+53.27       |                | D          | 164+53.27       |                | D          | 168+53.27       |                | D          | 172+39.27       |                | D          | 173+99.27       |
|                | D          | 160+73.27       |                | D          | 164+73.27       |                | D          | 168+73.27       |                | D          | 172+59.27       |                | D          | 173+99.27       |
|                | D          | 160+93.27       |                | D          | 164+93.27       |                | D          | 168+93.27       |                | D          | 172+79.27       |                | D          | 173+99.27       |
|                | D          | 161+13.27       |                | D          | 165+13.27       |                | D          | 169+13.27       |                | D          | 172+99.27       |                | D          | 173+99.27       |
|                | D          | 161+33.27       |                | D          | 165+33.27       |                | D          | 169+33.27       |                | D          | 173+19.27       |                | D          | 173+99.27       |
|                | D          | 161+53.27       |                | D          | 165+53.27       |                | D          | 169+53.27       |                | D          | 173+39.27       |                | D          | 173+99.27       |
|                | D          | 161+73.27       |                | D          | 165+73.27       |                | EXP        | 169+64.77       |                | D          | 173+59.27       |                | D          | 173+99.27       |
|                | D          | 161+93.27       |                | D          | 165+93.27       |                | D          | 169+84.77       |                | D          | 173+79.27       |                | D          | 173+99.27       |

D = DEFLECTION JOINT  
EXP = EXPANSION JOINT

A7650



PCC Released for Construction 2008.12.16 10:51:50 -06'00'

DESIGNED BY: CHY  
DRAFTED BY: ART  
CHECKED BY: KRP



| ISSUE RECORD |                               |         |
|--------------|-------------------------------|---------|
| NO.          | DESCRIPTION                   | DATE    |
| A            | 90% APPROACH SUPERSTRUCTURE   | 06NOV08 |
| 1            | RFC - APPROACH SUPERSTRUCTURE | 11DEC08 |



THE Kcicon PROJECT  
RIVER BRIDGE  
OUTSIDE BARRIER DETAILS 1

DRAWING NUMBER  
RB-08DT001





|                               |                    |                      |
|-------------------------------|--------------------|----------------------|
| ROUTE<br><b>1-29</b>          | STATE<br><b>MO</b> | DISTRICT<br><b>4</b> |
| JOB NO.<br><b>J411507</b>     |                    |                      |
| COUNTY<br><b>JACKSON-CLAY</b> |                    |                      |

# NOTES:

ALL CONDUIT CLAMPS, IF REQUIRED, SHALL BE A COMMERCIALY AVAILABLE CONDUIT CLAMP APPROVED BY THE ENGINEER.

SHIFT REINFORCING STEEL IN FIELD WHERE NECESSARY TO CLEAR CONDUIT AND JUNCTION BOXES.

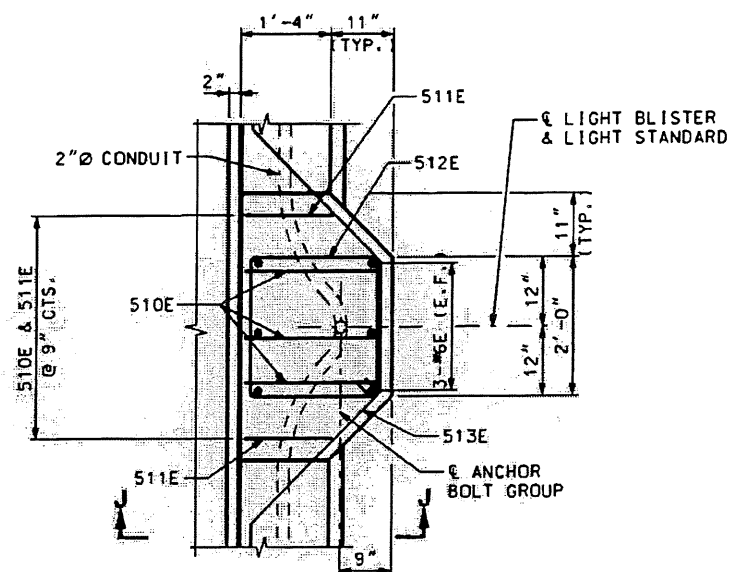
TOP OF LIGHT STANDARD SUPPORTS SHALL BE MADE HORIZONTAL; ANCHOR BOLTS SHALL BE PLACED VERTICALLY.

FOR DETAILS OF LIGHT STANDARDS AND WIRING, SEE ELECTRICAL DRAWINGS.

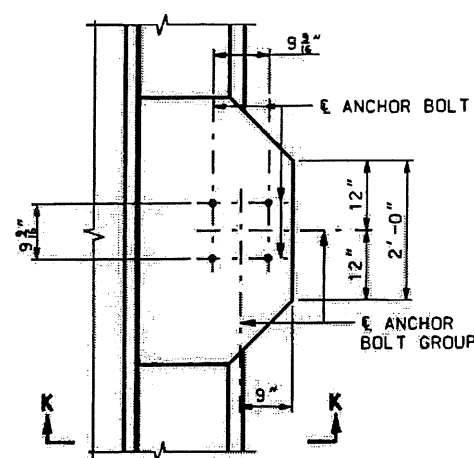
EXPANSION FITTINGS SHALL PROVIDE A MINIMUM MOVEMENT IN EITHER DIRECTION OF 3". EXPANSION FITTINGS SHALL BE EQUAL TO CARLON ELECTRICAL CONSTRUCTION PRODUCTS OR CANTEX, INC.

ANCHOR BOLTS AND NUTS SHALL BE AASHTO M314-90 GRADE 55. ANCHOR BOLTS, NUTS AND WASHERS SHALL BE FULLY GALVANIZED.

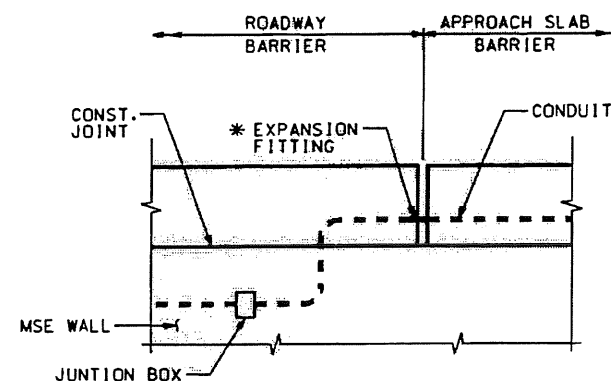
WEEPHOLES SHALL BE PROVIDED AT APPROPRIATE LOCATIONS TO DRAIN ANY MOISTURE IN THE CONDUIT SYSTEM.



LIGHT BLISTER PLAN

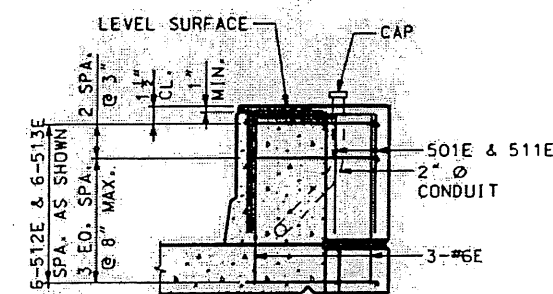


LIGHT BLISTER PLAN

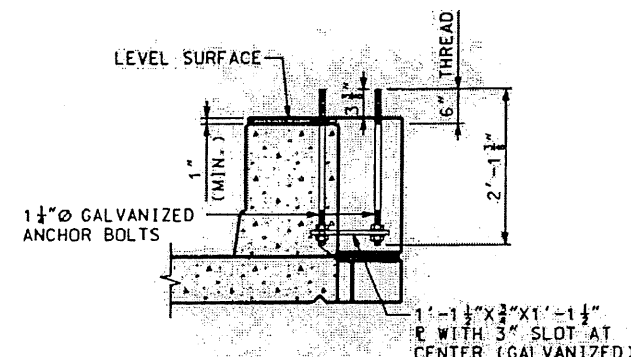


\* AT SOUTH END OF SOUTH APPROACH SLAB

PART ELEVATION OF JUNCTION BOX IN MSE WALL



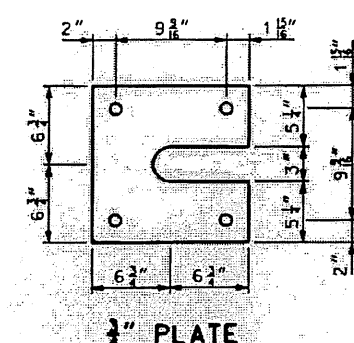
SECTION J-J



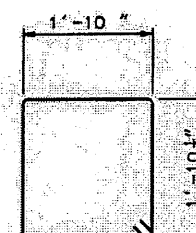
SECTION K-K

| LIGHT BLISTER LOCATIONS |                            |           |                            |
|-------------------------|----------------------------|-----------|----------------------------|
| SOUTH APPROACH          |                            |           |                            |
| STATION                 | LOCATION                   | STATION   | LOCATION                   |
| 159+08.00               | NORTHBOUND OUTSIDE BARRIER | 158+42.00 | SOUTHBOUND OUTSIDE BARRIER |

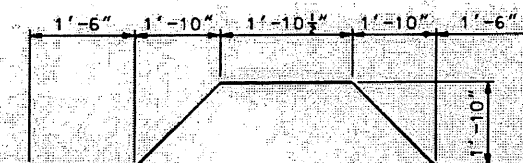
LIGHT BLISTER DETAILS



510E & 511E

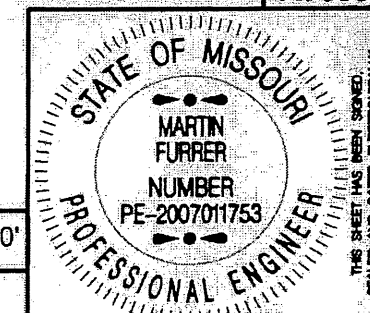


512E



513E

A7650



DRAWING NUMBER  
RB-08DT004

DESIGNED BY: CHY  
DRAFTED BY: ART  
CHECKED BY: KRP



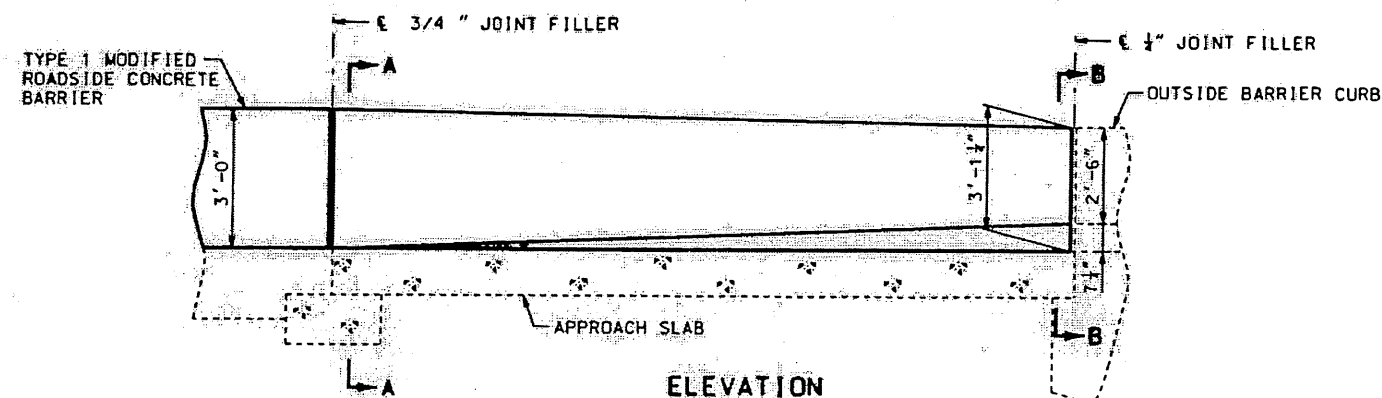
| ISSUE RECORD |                               |         |
|--------------|-------------------------------|---------|
| NO.          | DESCRIPTION                   | DATE    |
| A            | 90% APPROACH SUPERSTRUCTURE   | 06NOV08 |
| 1            | RFC - APPROACH SUPERSTRUCTURE | 11DEC08 |



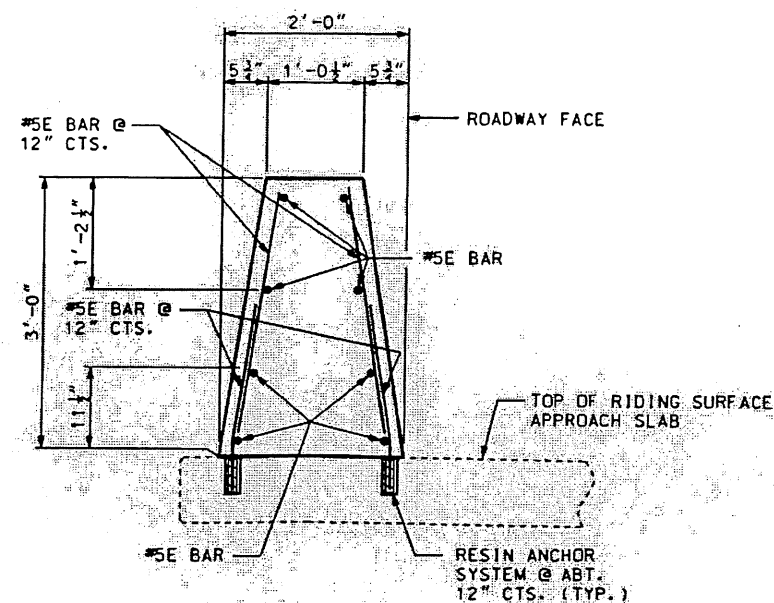
PCC Released for Construction 2008.12.16 10:51:51 -06'00'

THE kcicon PROJECT  
RIVER BRIDGE  
OUTSIDE BARRIER DETAILS IV

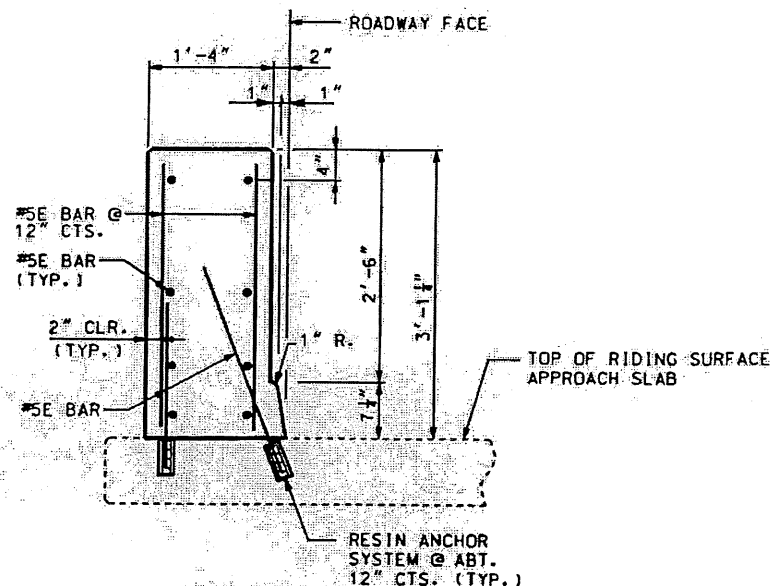
(OUTSIDE BARRIER CURB TRANSITION AT SOUTHBOUND S. END BENT SHOWN.  
BARRIER CURB TRANSITIONS AT NORTHBOUND S. END BENT AND N. END BENT SIMILAR.)



## ELEVATION



**SECTION A-A**

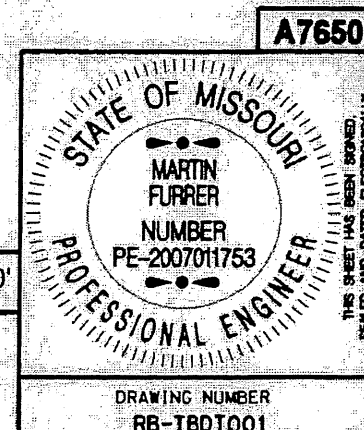


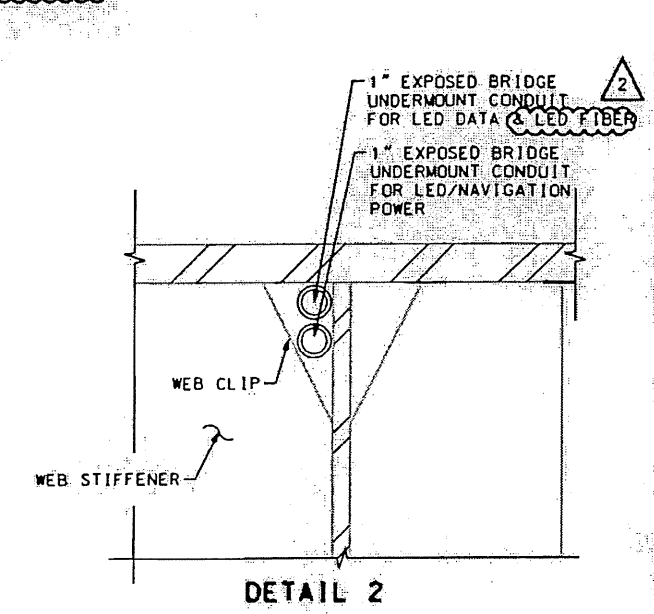
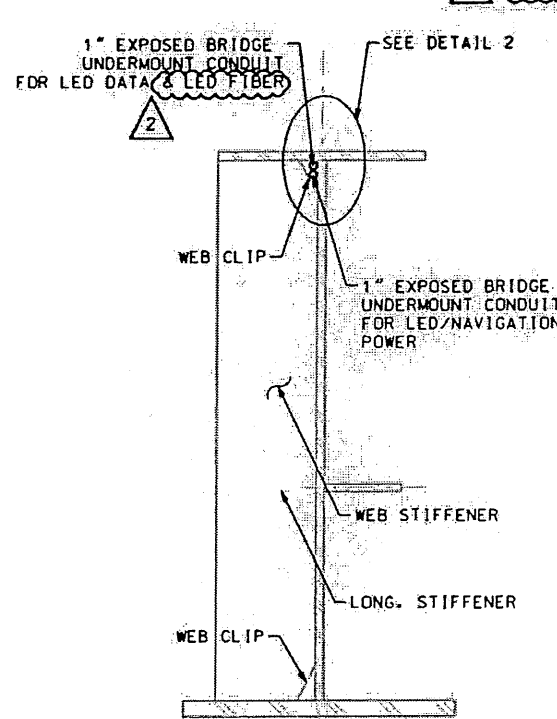
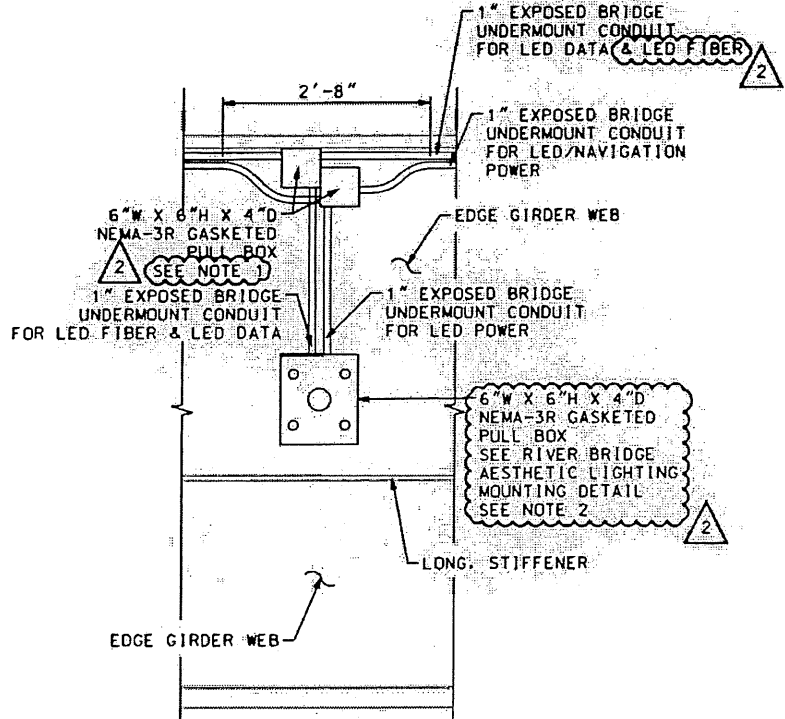
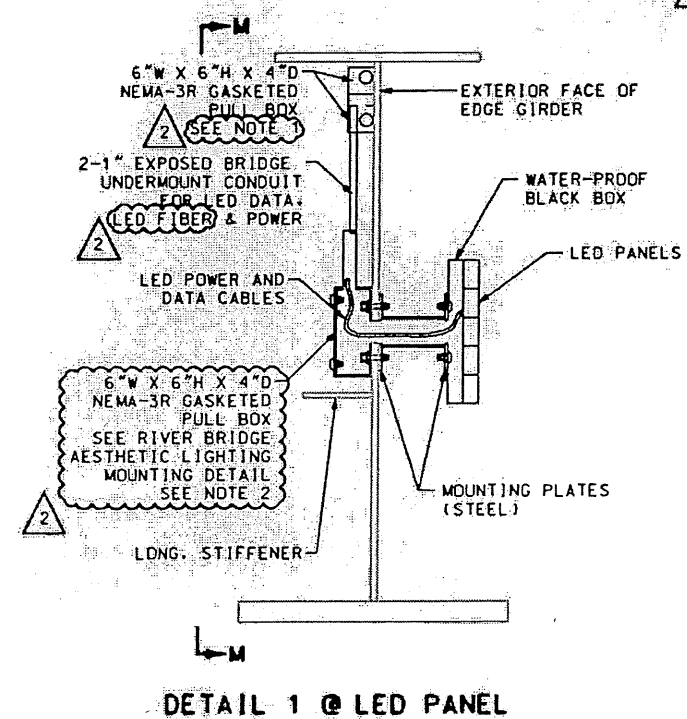
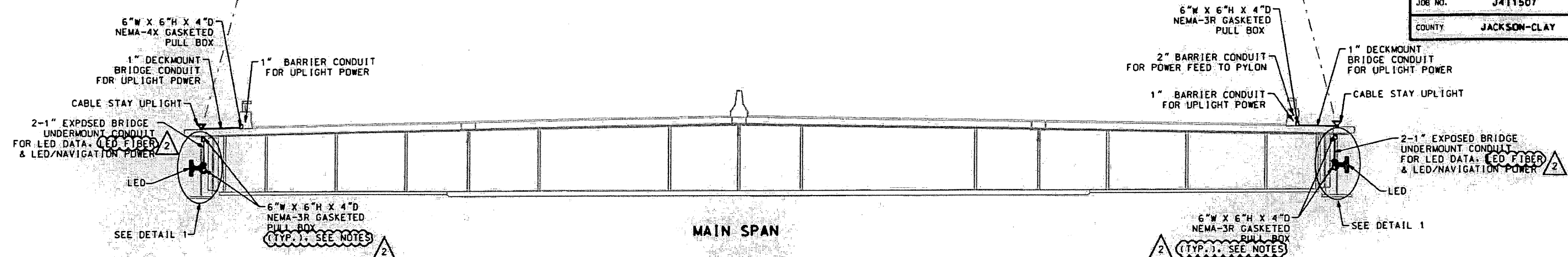
SECTION B-B

THE CURB SHALL BE CURED BY APPLICATION OF TYPE 1-D OR TYPE 2 LIQUID MEMBRANE-FORMING COMPOUND IN ACCORDANCE WITH SEC 1055. SURFACE SEALING FOR CONCRETE IN ACCORDANCE WITH SEC 703 IS NOT REQUIRED. APPLICATION OF LINSEED OIL AT THE CONTRACTOR'S EXPENSE IS PERMITTED. CONTRACTOR SHALL PREVENT OVERSPRAY ONTO SCUPPERS.



THE KcICON PROJECT  
RIVER BRIDGE  
OUTSIDE BARRIER CURB TRANSITION





- NOTES:
1. LOWER PULL BOX SHALL BE 16"W X 16"H X 6"D FOR LOCATIONS WHERE FIBER DECODERS ARE INSTALLED AND WILL INCLUDE THE FIBER DISTRIBUTION PANEL.
  2. LED PULL BOX SHALL BE 8"W X 8"H X 4"D FOR LOCATIONS WHERE FIBER DECODERS ARE INSTALLED AND WILL HOUSE FIBER DECODERS AND DECODER POWER SUPPLY.

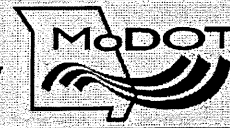
**MAIN SPAN TYPICAL CROSS SECTION**

PCC Released for Construction 2009.04.21 08:43:37 -05'00'

DESIGNED BY: KRR  
DRAFTED BY: LWT  
CHECKED BY: TSR



| ISSUE RECORD |                                   |         |
|--------------|-----------------------------------|---------|
| NO.          | DESCRIPTION                       | DATE    |
| A            | 90% FINAL DESIGN                  | 23OCT08 |
| 1            | RELEASED FOR CONSTRUCTION         | 28NOV08 |
| 2            | RELEASED FOR CONSTRUCTION NDC 127 | 23APR09 |



**THE KcICON PROJECT  
RIVER BRIDGE  
LIGHTING CROSS SECTION 1**

**A7650**

STATE OF MISSOURI

**TRENT S. ROBINETT**

NUMBER  
PE-2001012107

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED,  
SEALED AND DATED ELECTRONICALLY

DRAWING NUMBER  
**RB-LIXS001**