



TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

September 12, 2011

CALL NO. 102
CONTRACT ID NO. 111038
ADDENDUM # 1

Subject: Letcher County, BRZ 1203 (308)
Letting September 23, 2011

- (1) Revised - Plan Sheets - S1 through S28 & X8-X9
- (2) Revised - Bid Items - Pages 137-140(a) of 140

Proposal revisions are available at <http://transportation.ky.gov/contract/>.
Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Griffith".

Ryan Griffith
Director
Division of Construction Procurement

RG:ks
Enclosures



An Equal Opportunity Employer M/F/D

GENERAL NOTES

SPECIFICATIONS

ALL REFERENCES TO THE STANDARD SPECIFICATIONS ARE TO THE CURRENT EDITION OF THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WITH CURRENT SUPPLEMENTAL SPECIFICATIONS. ALL REFERENCES TO THE AASHTO SPECIFICATIONS ARE TO BE CURRENT EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, WITH INTERIMS.

DESIGN LOAD AND METHOD

THIS BRIDGE IS DESIGNED FOR HS25 LIVE LOAD OR ALTERNATE MILITARY LOADING, WHICHEVER PRODUCES THE GREATER STRESS. THE HS25 LIVE LOAD IS ARRIVED AT BY INCREASING THE STANDARD HS20-44 TRUCK AND LANE LOADS AS SPECIFIED IN THE AASHTO SPECIFICATIONS BY 25%. ALL REINFORCED CONCRETE MEMBERS ARE DESIGNED BY THE LOAD FACTOR METHOD AS SPECIFIED IN THE CURRENT AASHTO SPECIFICATIONS.

WIND LOAD

THIS BRIDGE IS DESIGNED FOR A WIND LOAD BASED ON A WIND VELOCITY OF 100 MPH.

MATERIALS DESIGN SPECIFICATIONS

FOR CLASS "A" REINFORCED CONCRETE
F'C = 3,500 PSI
FOR CLASS "AA" REINFORCED CONCRETE
F'C = 4,000 PSI
FOR STRUCTURAL STEEL
FY = 36,000 PSI FOR A36 STEEL
FY = 50,000 PSI FOR PILING
FOR STEEL REINFORCEMENT
FY = 60,000 PSI
FOR PRESTRESSED BEAM CONCRETE
F'C = 7,500 PSI
F'S = 270,000 PSI

FOUNDATION PRESSURE

SEE FOUNDATION LAYOUT SHEET. PILES ARE DESIGNED FOR LOADS AS SHOWN IN THE PILE RECORD.

CONCRETE

CLASS "AA" CONCRETE IS TO BE USED THROUGHOUT THE SUPERSTRUCTURE. CLASS "A" CONCRETE IS TO BE USED IN THE PEDESTALS AND IN THE SUBSTRUCTURE BELOW THE TOP OF THE CAPS. PRESTRESSED BEAM CONCRETE SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

REINFORCEMENT

DIMENSIONS SHOWN FROM THE FACE OF CONCRETE TO BARS ARE CLEAR DISTANCES UNLESS OTHERWISE SHOWN. SPACING OF BARS IS FROM CENTER TO CENTER OF BARS. CLEAR DISTANCE TO FACE OF CONCRETE IS 2", UNLESS OTHERWISE NOTED. EPOXY COAT BARS DESIGNATED BY THE SUFFIX (E) IN ACCORDANCE WITH SECTION 811.0 OF THE STANDARD SPECIFICATIONS. USE STIRRUP BEND DIAMETERS FOR BARS DESIGNATED BY SUFFIX (S) IN A BILL OF REINFORCEMENT.

PILE DATA

PILES SHALL BE DRIVEN TO REFUSAL. TEST PILES SHALL BE DRIVEN WHERE DESIGNATED ON THE PLANS TO DETERMINE THE LENGTH OF PILE REQUIRED. ALL TEST PILES SHALL BE ACCURATELY LOCATED SO THAT THEY MAY BE USED IN THE FINISHED STRUCTURE.

IT WILL BE POSSIBLE TO DRIVE THE H-PILES TO BEDROCK WITHOUT ENCOUNTERING EXCESSIVE BLOW COUNTS AND OVER-STRESSING THE PILES USING ANY COMMONLY UTILIZED HAMMER ALLOWED BY THE DIVISION OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT HIS PILE DRIVING SYSTEM TO THE DEPARTMENT FOR APPROVAL PRIOR TO THE INSTALLATION OF THE FIRST PILE. APPROVAL OF THE PILE DRIVING SYSTEM BY THE ENGINEER WILL BE SUBJECT TO SATISFACTORY FIELD PERFORMANCE OF THE PILE DRIVING PROCEDURES.

PILE POINTS

PILE POINTS ARE REQUIRED ON ALL PILES. THE PILE POINTS SHALL BE THE TYPE FOR KEYING INTO A SLOPING ROCK SURFACE. PILE POINTS SHALL BE IN ACCORDANCE WITH SUBSECTION 604.03.04c) OF THE STANDARD SPECIFICATIONS.

ARMORED EDGE

STEEL MATERIAL SHOULD BE NEW, COMMERCIAL GRADE STEEL SUITABLE FOR WELDING. ACCEPTANCE WILL BE BASED ON VISUAL INSPECTION BY THE ENGINEER. STUD SHEAR CONNECTORS SHALL CONFORM TO ASTM A108, GRADE 1015. TECHNIQUES AND WELDING PROCEDURE SHALL COMPLY WITH CURRENT JOINT SPECIFICATION ANSI/ AASHTO/ AWS D1.5 BRIDGE WELDING CODE. CONTRARY TO THE SPECIFICATIONS, ALL METAL SURFACES SHALL HAVE ONE SHOP COAT OF ORGANIC ZINC PRIMER APPLIED PRIOR TO SHIPPING THE STEEL FROM THE PLANT. NO FIELD COATING IS REQUIRED.

TEMPORARY SUPPORTS

TEMPORARY SUPPORTS OR SHORING WILL NOT BE PERMITTED UNDER THE BEAMS WHEN POURING THE CONCRETE FLOOR SLAB OR WHEN TAKING "TOP OF BEAM " ELEVATIONS.

SLOPE PROTECTION

USE CYCLOPEAN STONE RIP RAP SLOPE PROTECTION IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

DIMENSIONS

DIMENSIONS ARE FOR A NORMAL TEMPERATURE OF 60 DEGREES FAHRENHEIT. LAYOUT DIMENSIONS ARE HORIZONTAL MEASUREMENTS.

SHOP DRAWINGS

SUBMIT SHOP DRAWINGS THAT ARE REQUIRED BY THE PLANS AND SPECIFICATIONS DIRECTLY TO THE CONSULTANT. IF CHANGES IN THE DESIGN PLANS ARE PROPOSED BY A FABRICATOR OR SUPPLIER, SUBMIT THOSE CHANGES TO THE CONSULTANT. SUBMIT ALL FINAL, APPROVED SHOP DRAWINGS TO THE DIVISION OF STRUCTURAL DESIGN.

MATERIALS

ASTM OR AASHTO SPECIFICATIONS AS DESIGNATED BELOW SHALL GOVERN THE MATERIALS FURNISHED.

MATERIAL	A. S. T. M.	AASHTO
STRUCTURAL STEEL		M-183
SHEET LEAD AND PIG LEAD	B29-79	
STEEL REINFORCEMENT, GRADE 60	A-615	
STEEL PIPE	A-500	

SLAB POURING SEQUENCE

THE SLAB POURING SEQUENCE SHALL NOT BE CHANGED WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER.

BEVELED EDGES

BEVEL ALL EXPOSED EDGES $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

COFFERDAM

COFFERDAM MAY BE REQUIRED FOR THE CONSTRUCTION OF PIER 1. PAYMENT FOR COFFERDAM WILL BE INCIDENTAL TO STRUCTURE EXCAVATION, COMMON.

ON-SITE INSPECTION

EACH CONTRACTOR SUBMITTING A BID FOR THIS WORK SHALL MAKE A THOROUGH INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS SO THAT WORK CAN BE EXPEDITIOUSLY PERFORMED AFTER A CONTRACT IS AWARDED. SUBMISSION OF A BID WILL BE CONSIDERED EVIDENCE OF THIS INSPECTION HAVING BEEN MADE. ANY CLAIMS RESULTING FROM SITE CONDITIONS WILL NOT BE HONORED BY THE DEPARTMENT OF HIGHWAYS.

COMPLETION OF THE STRUCTURE

THE CONTRACTOR IS REQUIRED TO COMPLETE THE STRUCTURE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. MATERIAL, LABOR OR CONSTRUCTION OPERATIONS, NOT OTHERWISE SPECIFIED, ARE TO BE INCLUDED IN THE BID ITEM MOST APPROPRIATE TO THE WORK INVOLVED. THIS MAY INCLUDE COFFERDAMS, SHORING, EXCAVATIONS, BACKFILLING, REMOVAL OF ALL OR PARTS OF EXISTING STRUCTURES, PHASE CONSTRUCTION, INCIDENTAL MATERIALS, LABOR, OR ANYTHING ELSE REQUIRED TO COMPLETE STRUCTURE.

CONSTRUCTION IDENTIFICATION

THE NAMES OF THE PRIME CONTRACTOR AND THE SUB-CONTRACTOR SHALL BE IMPRINTED IN THE CONCRETE WITH ONE INCH LETTERS AT A LOCATION DESIGNATED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ALL PLANS, EQUIPMENT AND LABOR NECESSARY TO DO THE WORK FOR WHICH NO DIRECT PAYMENT WILL BE MADE.

FOOTING EXCAVATIONS

ALL FOOTING EXCAVATIONS IN BEDROCK SHALL BE CUT NEAT SO THAT NO FORMING OR BACKFILLING IS NECESSARY IN THE CONSTRUCTION OF THE PORTIONS OF THE FOOTINGS LOCATED IN ROCK. CONCRETE AND STEEL SHOULD BE PLACED DIRECTLY AGAINST THE CUT ROCK FACES. MASS CONCRETE SHOULD BE PLACED IN THE EXCAVATION FROM TOP OF THE FOOTING TO THE BEDROCK SURFACE WHERE THE FOOTING DOES NOT EXTEND TO THE BEDROCK SURFACE. THE ESTIMATED VOLUME OF MASS CONCRETE IS SHOWN IN THE ESTIMATE OF QUANTITIES AS CLASS "B" CONCRETE AND THE ACTUAL VOLUME FOR PAYMENT IS TO BE MEASURED AND APPROVED BY THE ENGINEER. THE FOOTING STEEL AND CONCRETE SHOULD BE PLACED THE SAME DAY AS THE FOOTING EXCAVATION IS MADE. WATER MUST BE KEPT OUT OF THE FOOTING EXCAVATIONS. THE SHALE MAY DEGRADE AND BECOME SOFT WITH EXPOSURE TO THE ELEMENTS. IF THE BEDROCK BECOMES SOFTENED AT BEARING ELEVATION, THE SOFTENED MATERIAL SHOULD BE UNDERCUT TO UNWEATHERED MATERIAL PRIOR TO PLACING THE CONCRETE. SEASONAL GROUNDWATER FLUCTUATIONS MAY CAUSE GROUNDWATER INFILTRATION INTO THE FOOTING EXCAVATIONS AND A DEWATERING METHOD MAY BE NECESSARY.

SPIRAL COLUMN TIES

SPLICES FOR SPIRALS WHERE DESIRED BY THE CONTRACTOR SHALL BE MADE WITH A MINIMUM OF ONE AND ONE-HALF TURNS OF SPIRAL. NO ADDITIONAL PAYMENT WILL BE MADE FOR THESE SPLICES, AND THE COST WILL BE CONSIDERED INCIDENTAL TO THE COST OF THE DEVELOPED-LENGTH OF SPIRAL SHOWN ON THE PLANS. SPIRAL REINFORCEMENT SHALL MEET THE REQUIREMENTS OF SUBSECTION 811.02.01 OF THE SPECIFICATIONS.

ENSURE SPIRAL REINFORCEMENT IS GRADE 60 DEFORMED OR PLAIN REINFORCEMENT. USE A MINIMUM OF ONE AND ONE-HALF TURNS OF THE SPIRAL FOR SPLICES. THE LENGTH SHOWN IN THE BILL OF REINFORCEMENT IS THE LENGTH FROM THE TOP OF FOOTING TO THE BOTTOM LAYER OF CAP REINFORCEMENT. PROVIDE ONE AND ONE-HALF CLOSED COILS AT THE ENDS OF EACH SPIRAL UNIT. PROVIDE, FOR EACH COIL, FOUR CHANNEL, TEE, OR ANGLE SPACERS, WEIGHING APPROXIMATELY 0.8 POUNDS PER LINEAR FOOT, SPACING THEM EQUALLY ALONG THE INSIDE PERIPHERY OF THE COIL. INCLUDE THE COST OF SPLICES AND SPACERS IN THE BID FOR STEEL REINFORCEMENT.

ELASTOMERIC BEARING PADS

ELASTOMERIC BEARING PADS SHALL CONFORM TO THE DIMENSIONS SHOWN IN THESE PLANS AND SHALL CONFORM TO THE REQUIREMENTS OF DIVISION II, SECTION 18 OF THE AASHTO SPECIFICATIONS. THE ELASTOMER COMPOUND SHALL BE LOW TEMPERATURE GRADE 3 WITH A DUROMETER HARDNESS OF 50. BEARING PADS ARE DESIGNED ACCORDING TO DIVISION I, ARTICLE 14.6 OF THE AASHTO SPECIFICATIONS. TESTING IN ACCORDANCE WITH DIVISION II, ARTICLE 18.7 REQUIRED. SHOP DRAWINGS ARE REQUIRED FOR ALL BEARING PADS. PAYMENT FOR BEARING PADS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PCI BEAMS.

CONTRARY TO AASHTO SPECIFICATIONS DIVISION II SECTION 18.4.5. THE LOW ELASTOMER MATERIAL SHALL BE VIRGIN NEOPRENE (POLYCHLOROPRENE) NATURAL RUBBER (POLYISOPRENE) WILL NOT BE ALLOWED.

 **REVISED 09-07-2011**

COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS	
COUNTY LETCHER	
ROUTE CR 1376	CROSSING NORTH FORK KENTUCKY RIVER
GENERAL NOTES	
PREPARED BY WMB INC., ENGINEERS	SHEET NO. S2 DRAWING NO. 26019

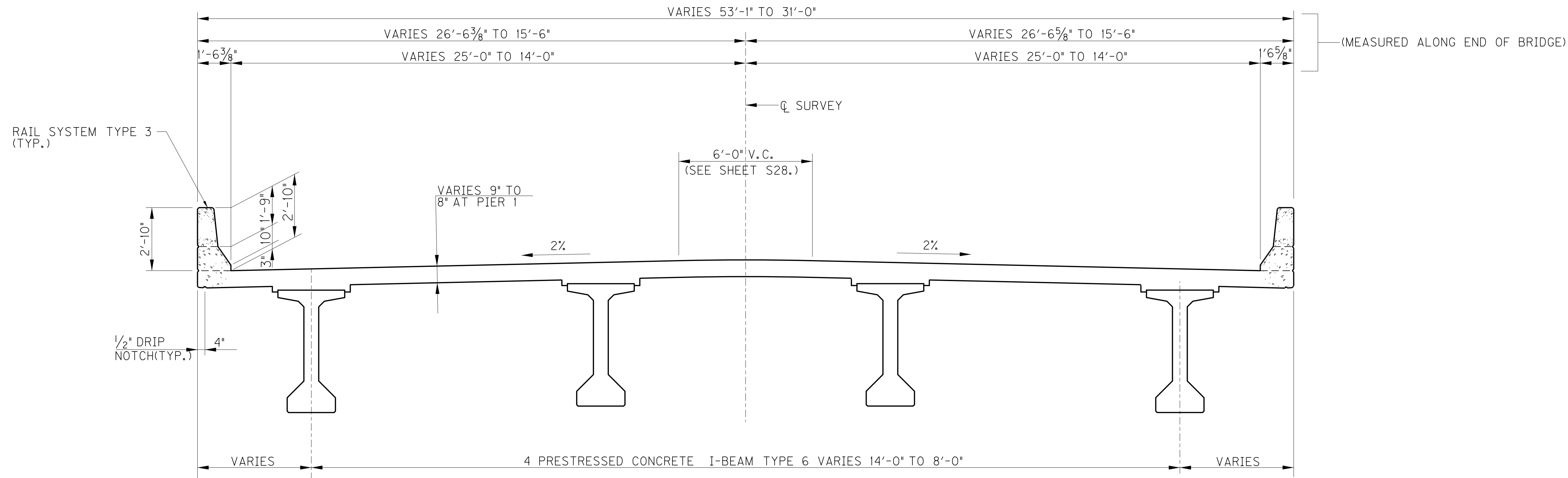
ITEM NUMBER
12-1081.00

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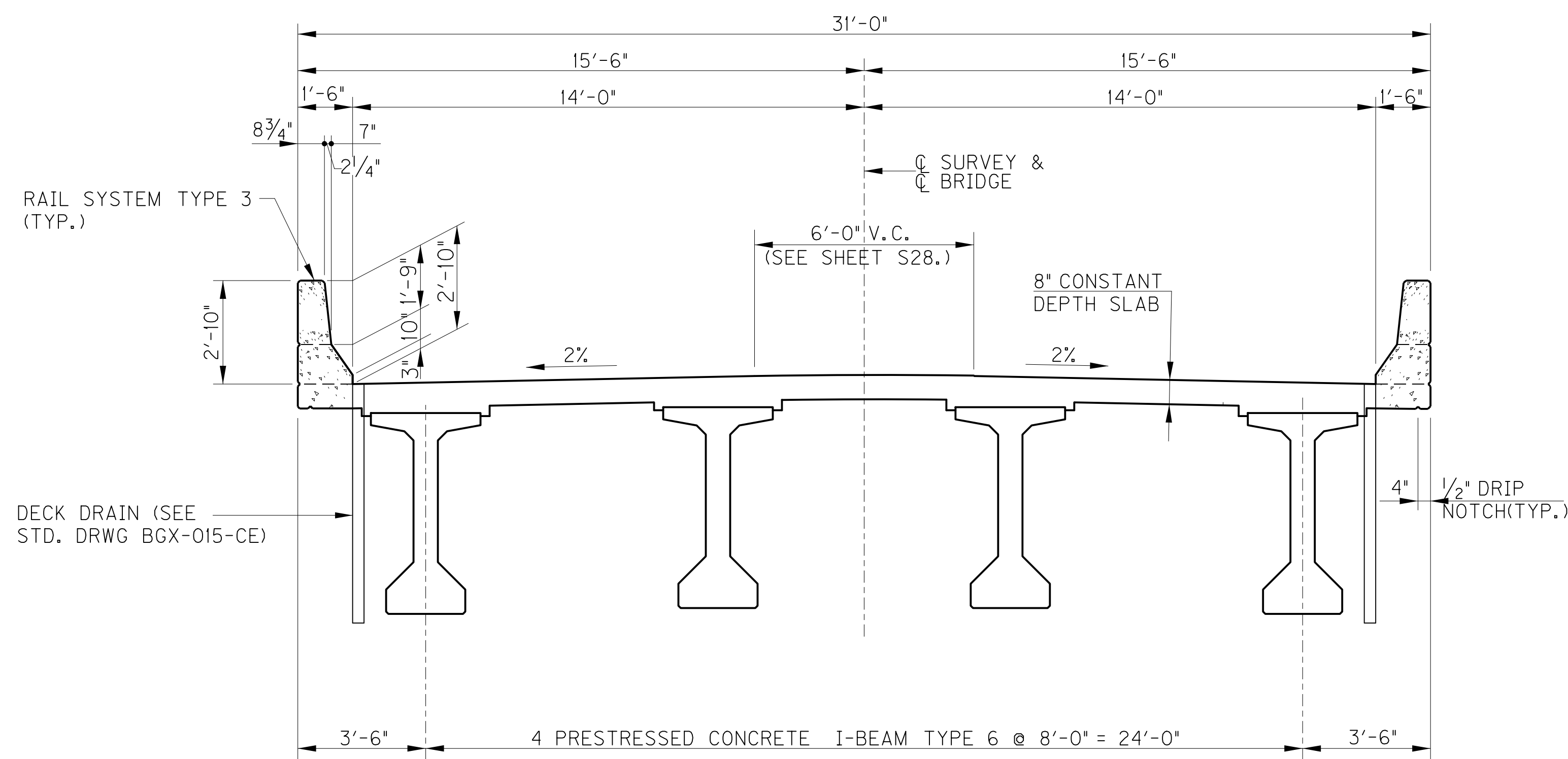
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DATE: September 07, 2010 USER: KTA_USER

E-SHEET NAME:



TYPICAL SECTION
(SPAN 1 LOOKING AHEAD)



TYPICAL SECTION
(SPAN 2)

REVISI¹ REVISI¹ 09-07-2011

REVISION	DATE
DATE: 09/07	CHECKED BY:
DESIGNED BY: WTB	RSC
DETAILED BY: CBH	WTB

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

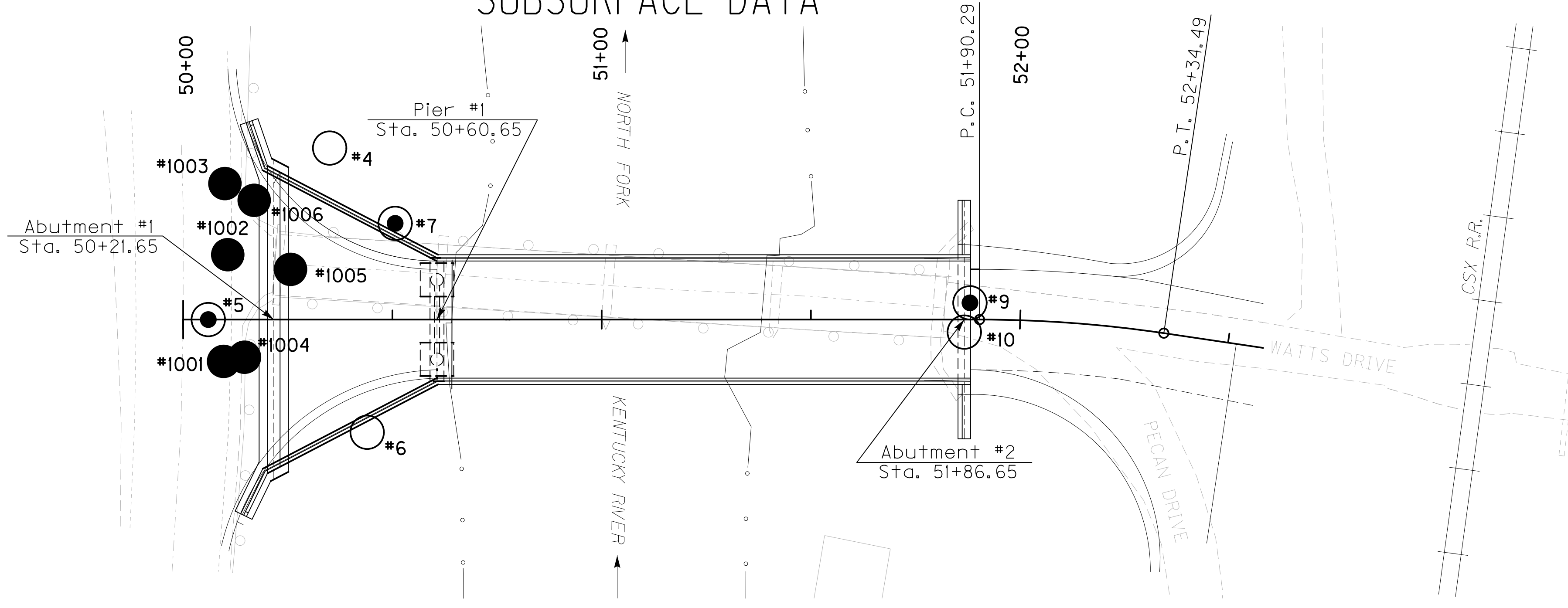
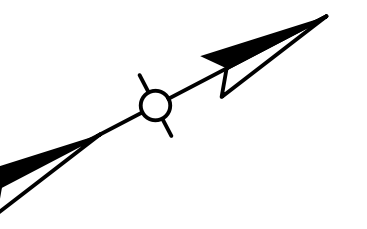
COUNTY
LETCHER

ROUTE CROSSING
CR 1376 NORTH FORK KENTUCKY RIVER

TYPICAL SECTION

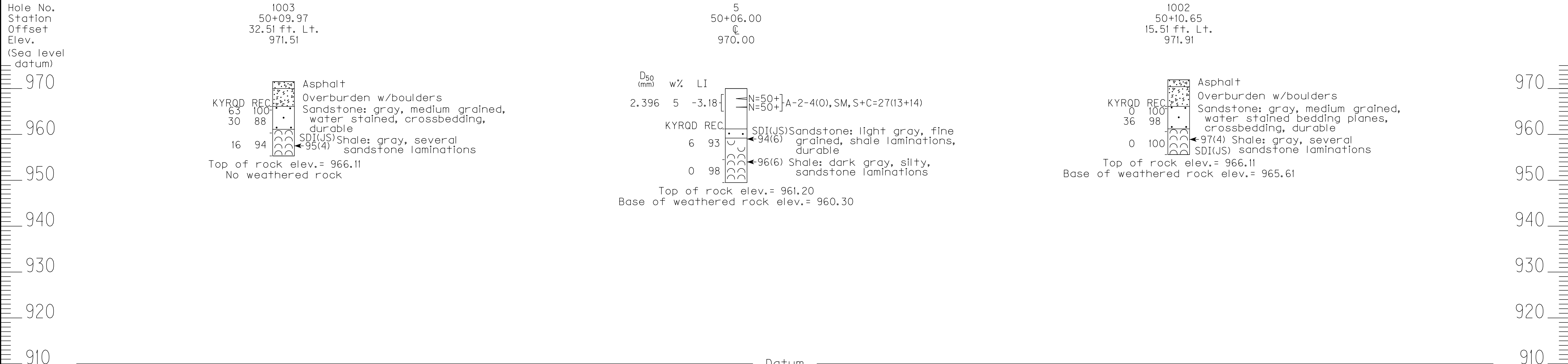
ITEM NUMBER	PREPARED BY	SHEET NO.
12-1081.00	WMB INC., ENGINEERS	S4
		DRAWING NO.
		26019

SUBSURFACE DATA



Profile Scale:
Vertical 1" = 10'
Horizontal not to scale

ABUTMENT ONE
APPROXIMATE ROADWAY GRADE ELEV. = 971.50



The Allowable Bearing Capacity For Spread Footings on Sound Bedrock is 20 ksf

REVISION 09-07-2011

DATE: 17-AUGUST-2007	CHECKED BY:
DESIGNED BY:	
DETAILED BY: E. BAILEY	R. SMITH

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY
LETCHER

ROUTE CR 1376	CROSSING Bridge over North Fork of Kentucky River
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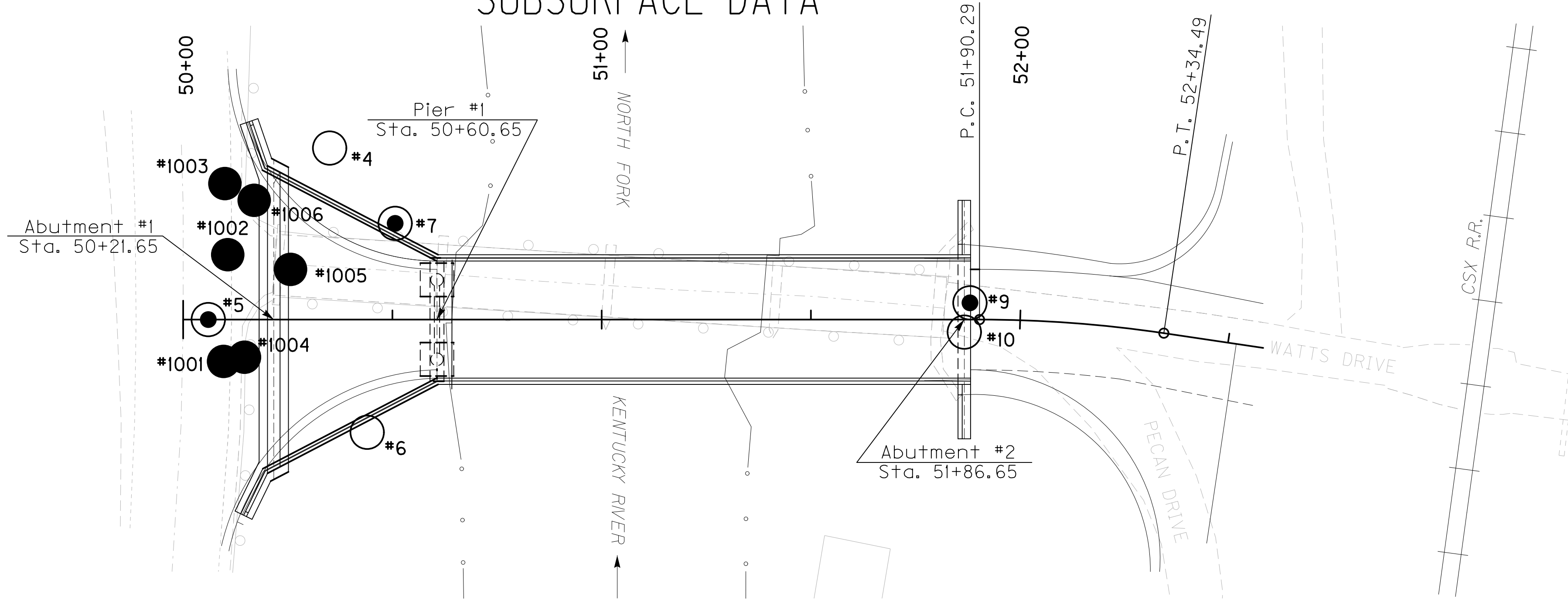
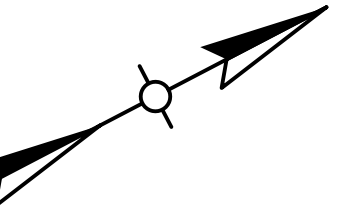
SUBSURFACE DATA

ITEM NUMBER 12-1081.00	PREPARED BY Division of Structural Design GEOTECHNICAL BRANCH	SHEET NO. S5 DRAWING NO. 26019
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S-048-07

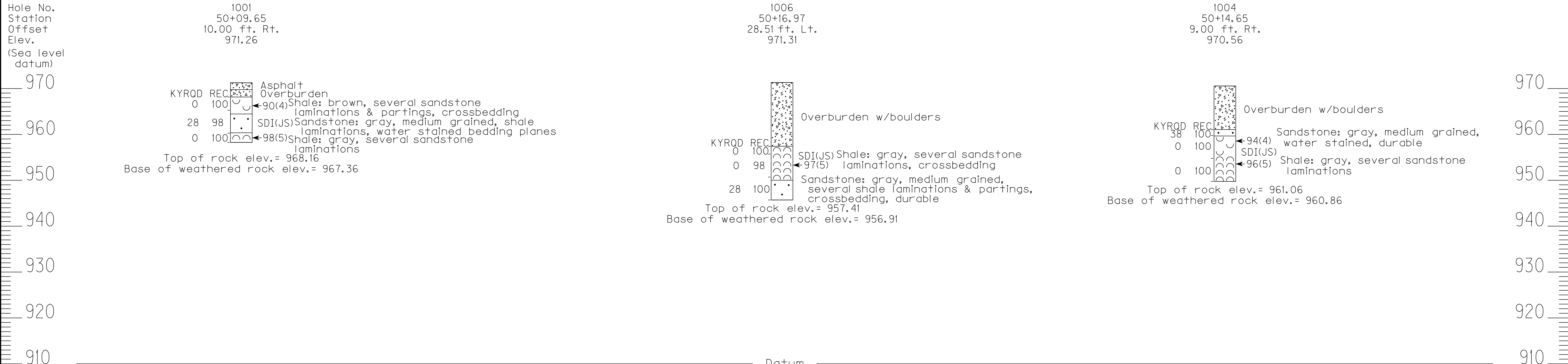
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 FILE NAME: 05.BC2
 DATE: September 07, 2010
 USERNAME: KTA_USER
 E-SHEET NAME:

SUBSURFACE DATA



Profile Scale:
Vertical 1" = 10'
Horizontal not to scale

ABUTMENT ONE
APPROXIMATE ROADWAY GRADE ELEV. = 971.50



The Allowable Bearing Capacity For Spread Footings on Sound Bedrock is 20 ksf

REVISION 09-07-2011

DATE: 17-AUGUST-2007	CHECKED BY:
DESIGNED BY:	
DETAILED BY: E. BAILEY	R. SMITH

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY
LETCHER

ROUTE CR 1376	CROSSING Bridge over North Fork of Kentucky River
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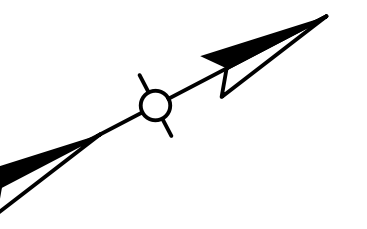
SUBSURFACE DATA

ITEM NUMBER 12-1081.00	PREPARED BY Division of Structural Design	SHEET NO. S6
	GEOTECHNICAL BRANCH	DRAWING NO. 26019

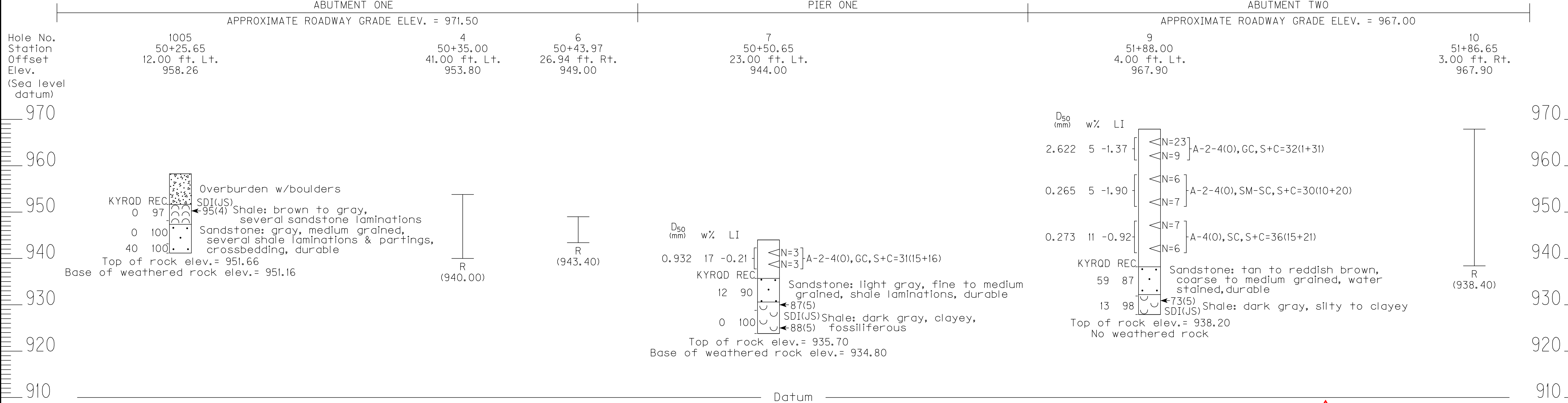
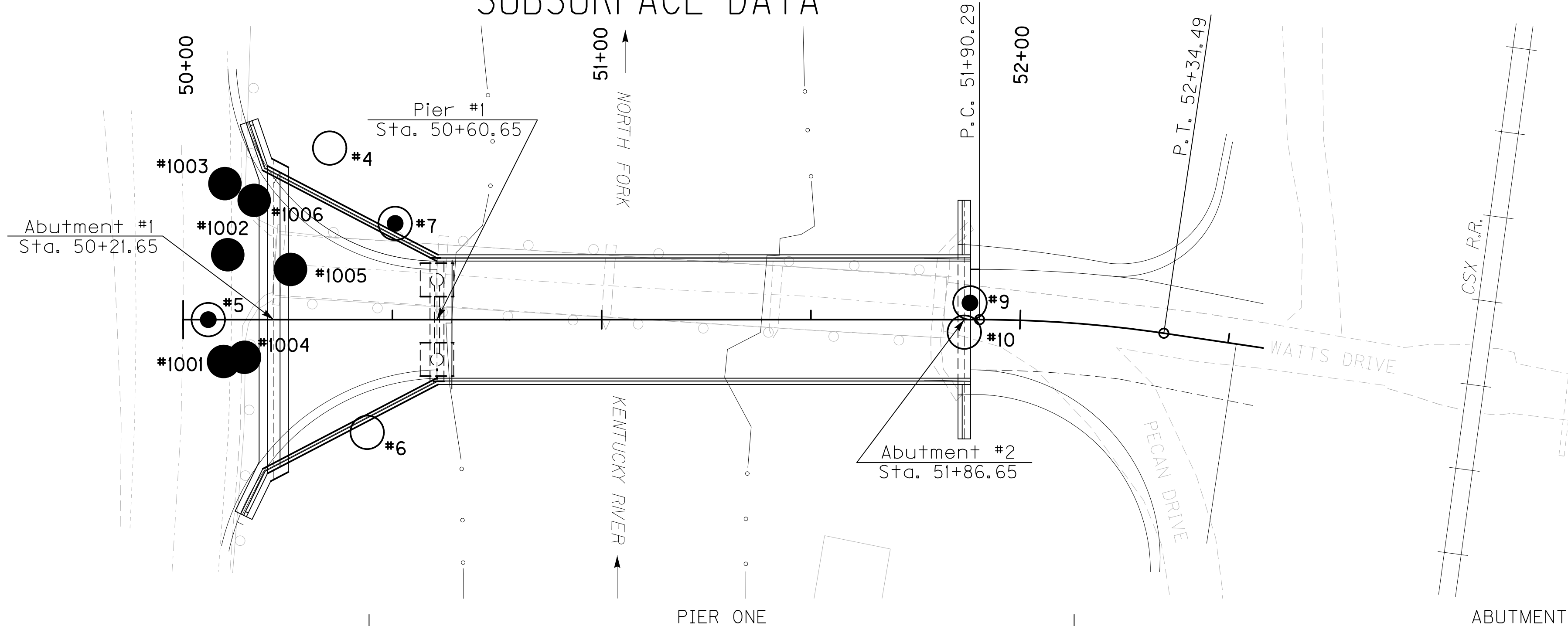
S-048-07

SHEET LOCATION:
 FILE NAME: 06_B02_X1
 DATE: September 07, 2011
 USER: KTA_USER
 E-SHEET NAME:

SUBSURFACE DATA



SHEET LOCATION: FILE NAME: 07_B02.X2 DATE: September 07, 2011 USERNAME: KTA_USER E-SHEET NAME:



Overburden w/boulders
 KYRQD REC 0 97
 SDI(JS) 95(4) Shale: brown to gray, several sandstone laminations
 0 100 Sandstone: gray, medium grained, several shale laminations & partings, crossbedding, durable
 40 100
 Top of rock elev.= 951.66
 Base of weathered rock elev.= 951.16

D₅₀ (mm) w% LI
 0.932 17 -0.21
 KYRQD REC 12 90
 Sandstone: light gray, fine to medium grained, shale laminations, durable
 87(5)
 SDI(JS) Shale: dark gray, clayey, fossiliferous
 88(5)
 Top of rock elev.= 935.70
 Base of weathered rock elev.= 934.80

D₅₀ (mm) w% LI
 2.622 5 -1.37
 KYRQD REC 59 87
 Sandstone: tan to reddish brown, coarse to medium grained, water stained, durable
 13 98
 SDI(JS) Shale: dark gray, silty to clayey
 Top of rock elev.= 938.20
 No weathered rock

The Allowable Bearing Capacity For Spread Footings on Sound Bedrock is 20 ksf

REVIS 09-07-2011

DATE: 17-AUGUST-2007	CHECKED BY:
DESIGNED BY:	
DETAILED BY: E. BAILEY	R. SMITH

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
 COUNTY
LETCHER

ROUTE	CROSSING
CR 1376	Bridge over North Fork of Kentucky River

SUBSURFACE DATA

ITEM NUMBER	PREPARED BY	SHEET NO.
12-1081.00	Division of Structural Design	S7
	GEOTECHNICAL BRANCH	DRAWING NO.
		26019

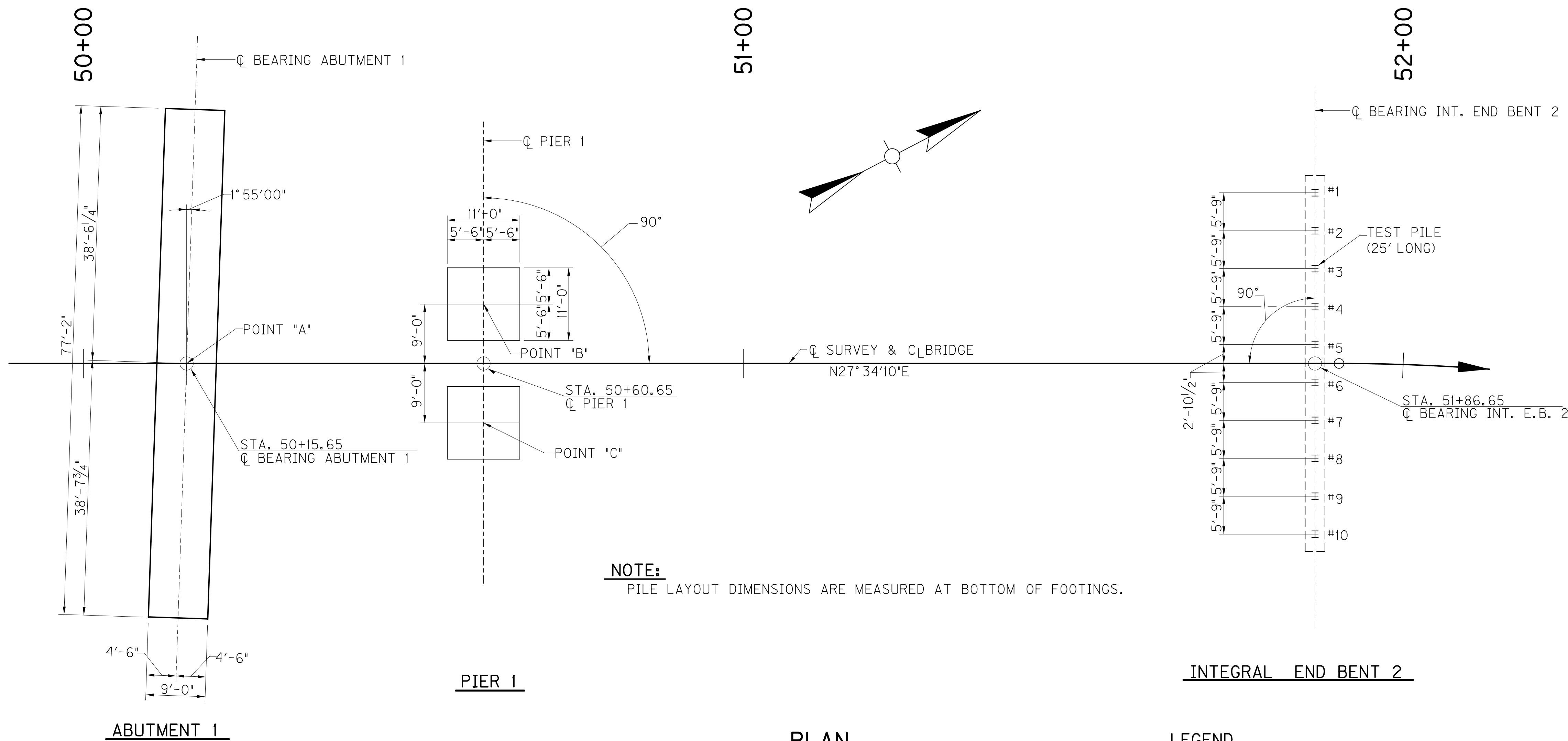
S-048-07

SHEET LOCATION:

FILE NAME: 08_PL

DATE: September 07, 2010 USER: KTA

E-SHEET NAME:



NOTE:
PILE LAYOUT DIMENSIONS ARE MEASURED AT BOTTOM OF FOOTINGS.

PLAN

LEGEND

H INDICATES VERTICAL PILE

SPREAD FOOTING RECORD ABUTMENT #1

POINT	PLAN FOOTING ELEVATION	AS-BUILT FOOTING ELEVATION
A	949.550	

FOOTING IS DESIGNED FOR A MAXIMUM PRESSURE OF 7,000 PSF.
THE ALLOWABLE BEARING CAPACITY IS 20,000 PSF.

SPREAD FOOTING RECORD PIER #1

POINT	PLAN FOOTING ELEVATION	AS-BUILT FOOTING ELEVATION
B	924.759	
C	924.759	

FOOTING IS DESIGNED FOR A MAXIMUM PRESSURE OF 17,000 PSF.
THE ALLOWABLE BEARING CAPACITY IS 20,000 PSF.

NOTE: AFTER ALL FOUNDATIONS HAVE BEEN PLACED, THE PROJECT RESIDENT ENGINEER SHALL RECORD THE BOTTOM OF FOOTING ELEVATION "AS-BUILT" AND SHALL SUBMIT COPY OF THIS SHEET WITH THIS DATA TO:

DIRECTOR, DIVISION OF STRUCTURAL DESIGN
TRANSPORTATION CABINET OFFICE BUILDING
3RD FLOOR
200 MERO STREET
FRANKFORT, KY. 40622-0001

NOTE: IF THE SPREAD FOOTING FOUNDATION IS STEPPED DUE TO UNSUITABLE MATERIAL FOUND AT THE GIVEN ELEVATION, THE LOCATION AND ELEVATION OF THE STEP SHALL BE SHOWN ON THIS SHEET AND SUBMITTED ALONG WITH "AS-BUILT" ELEVATIONS.

REVISION 09-07-2011

DEFINITIONS OF TERMS

PILE CUT-OFF ELEVATION: ELEVATION AT THE TOP OF PILE IN THE FINISHED STRUCTURE.
 PILE LENGTH IN PLACE: ACTUAL PILE LENGTH BELOW THE PILE CUT-OFF ELEVATION IN THE FINISHED STRUCTURE.
 POINT OF PILE ELEVATION AS DRIVEN: ACTUAL POINT OF THE PILE ELEVATION IN THE FINISHED STRUCTURE.
 DESIGN AXIAL LOAD: SERVICE LOAD CARRIED BY EACH PILE AS ESTIMATED FROM STRUCTURAL DESIGN CALCULATIONS.
 REQUIRED FIELD BEARING: PILE BEARING VALUE REQUIRED TO ACHIEVE "REFUSAL" FOR THE SIZE OF PILE USED. ACCORDING TO THE DIVISION OF CONSTRUCTION GUIDANCE MANUAL, THIS VALUE IS TAKEN AS 300 KIPS FOR 12 IN. STEEL H PILES AND 360 KIPS FOR 14 IN. STEEL H PILES.
 CALCULATED FIELD BEARING: PILE BEARING VALUE IN PLACE CALCULATED USING THE APPROPRIATE PILE DRIVING FORMULA IN SECTION 604.07(8) OF THE STANDARD SPECIFICATIONS.

DRIVING CRITERIA

DRIVING CRITERIA: DRIVE POINT BEARING PILES TO REFUSAL BEARING AND VERIFY THAT THE CALCULATED FIELD BEARING EQUALS OR EXCEEDS THE REQUIRED FIELD BEARING.

FIELD DATA

FOR EACH PILE, THE PROJECT ENGINEER SHALL RECORD THE FOLLOWING ON THIS SHEET: PILE LENGTH IN PLACE, POINT OF PILE ELEVATION AS DRIVEN, AND THE CALCULATED BEARING. SUBMIT THIS RECORD TO:

DIRECTOR, DIVISION OF STRUCTURAL DESIGN
TRANSPORTATION CABINET OFFICE BUILDING
3RD FLOOR
200 MERO STREET
FRANKFORT, KY. 40622-0001

THIS PILE RECORD DOES NOT REPLACE OTHER PILE RECORDS THE PROJECT ENGINEER IS REQUIRED TO KEEP AND SUBMIT.
 USE HP 12 X 53 IN ACCORDANCE WITH BPS-003, C.E.
 CONTARY TO THE STANDARD DRAWINGS, PILES SHALL CONFORM TO THE MATERIAL REQUIREMENTS OF AASHTO M270 GRADE 50.

PILE RECORD

PILE NO.	PILE CUT-OFF ELEVATION (FT.)	PILE LENGTH IN PLACE (LIN. FT.)	POINT OF PILE ELEVATION AS DRIVEN (FT.)	DESIGN AXIAL LOAD (KIPS)	REQUIRED FIELD BEARING (KIPS)	CALCULATED FIELD BEARING (KIPS)
1	959.468			183	300	
2	959.468			183	300	
3	959.468			183	300	
4	959.468			183	300	
5	959.468			183	300	
6	959.468			183	300	
7	959.468			183	300	
8	959.468			183	300	
9	959.468			183	300	
10	959.468			183	300	

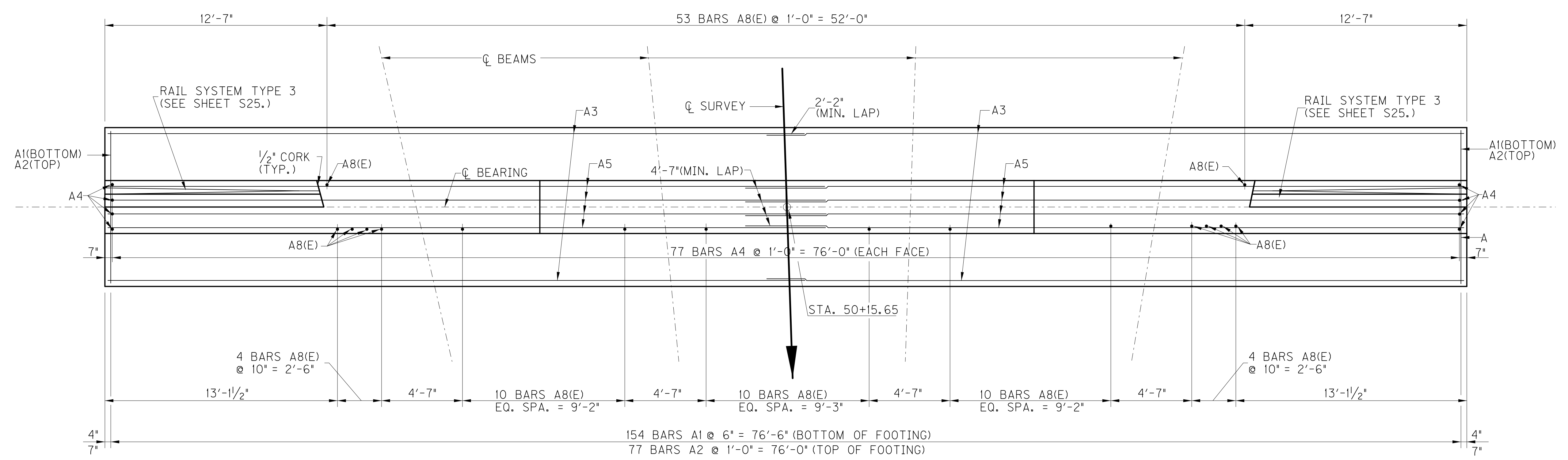
DATE: 09/07	CHECKED BY:
DESIGNED BY: WTB	RSC
DETAILED BY: CH	WTB
Commonwealth of Kentucky	
DEPARTMENT OF HIGHWAYS	
COUNTY	
LETCHER	
ROUTE CR 1376	CROSSING NORTH FORK KENTUCKY RIVER
FOUNDATION PLAN	
ITEM NUMBER 12-1081.00	PREPARED BY WMB INC., ENGINEERS
	SHEET NO. S8
	DRAWING NO. 26019

SHEET LOCATION:

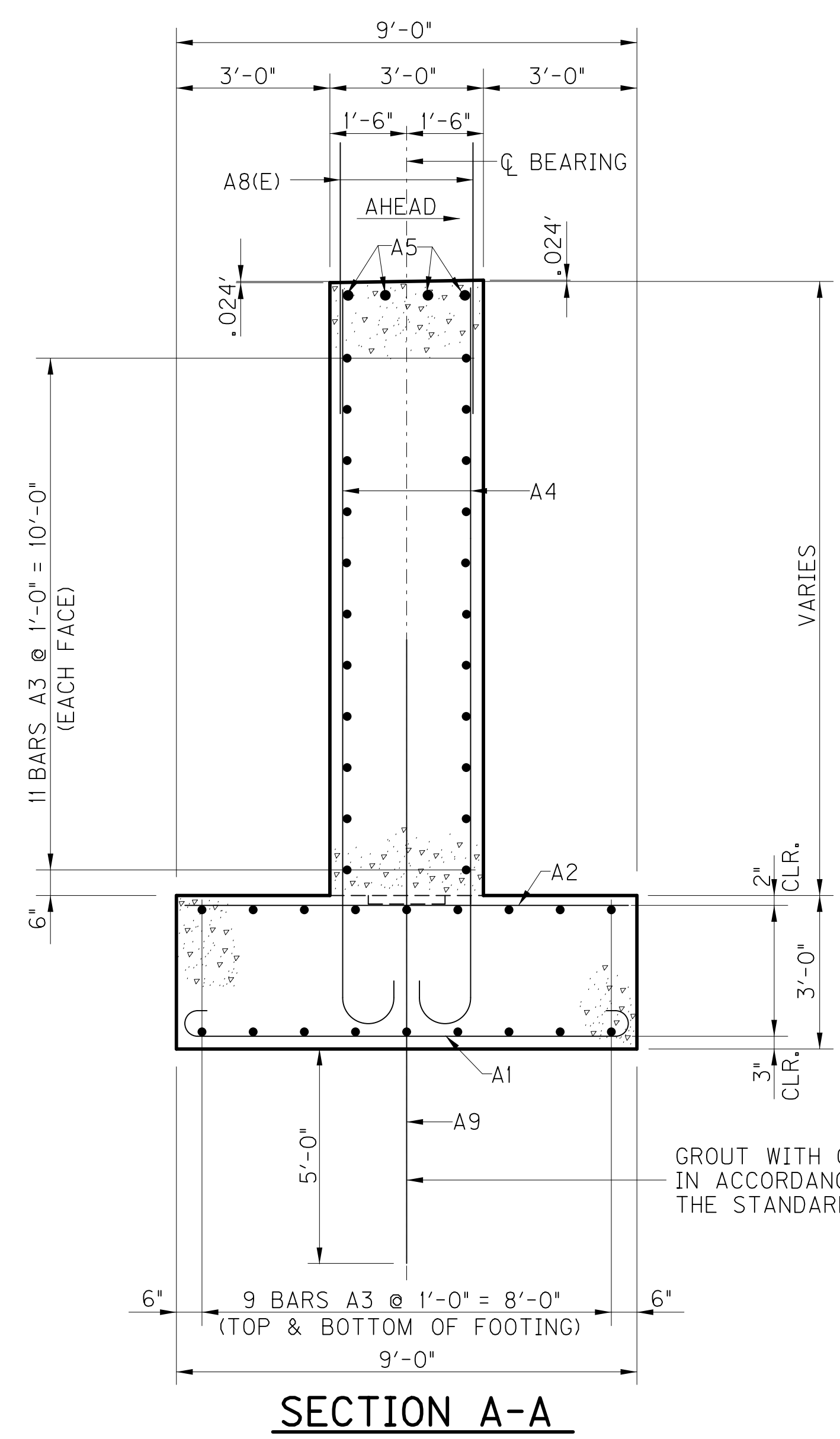
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DATE: September 07, 2011 USER: KTA

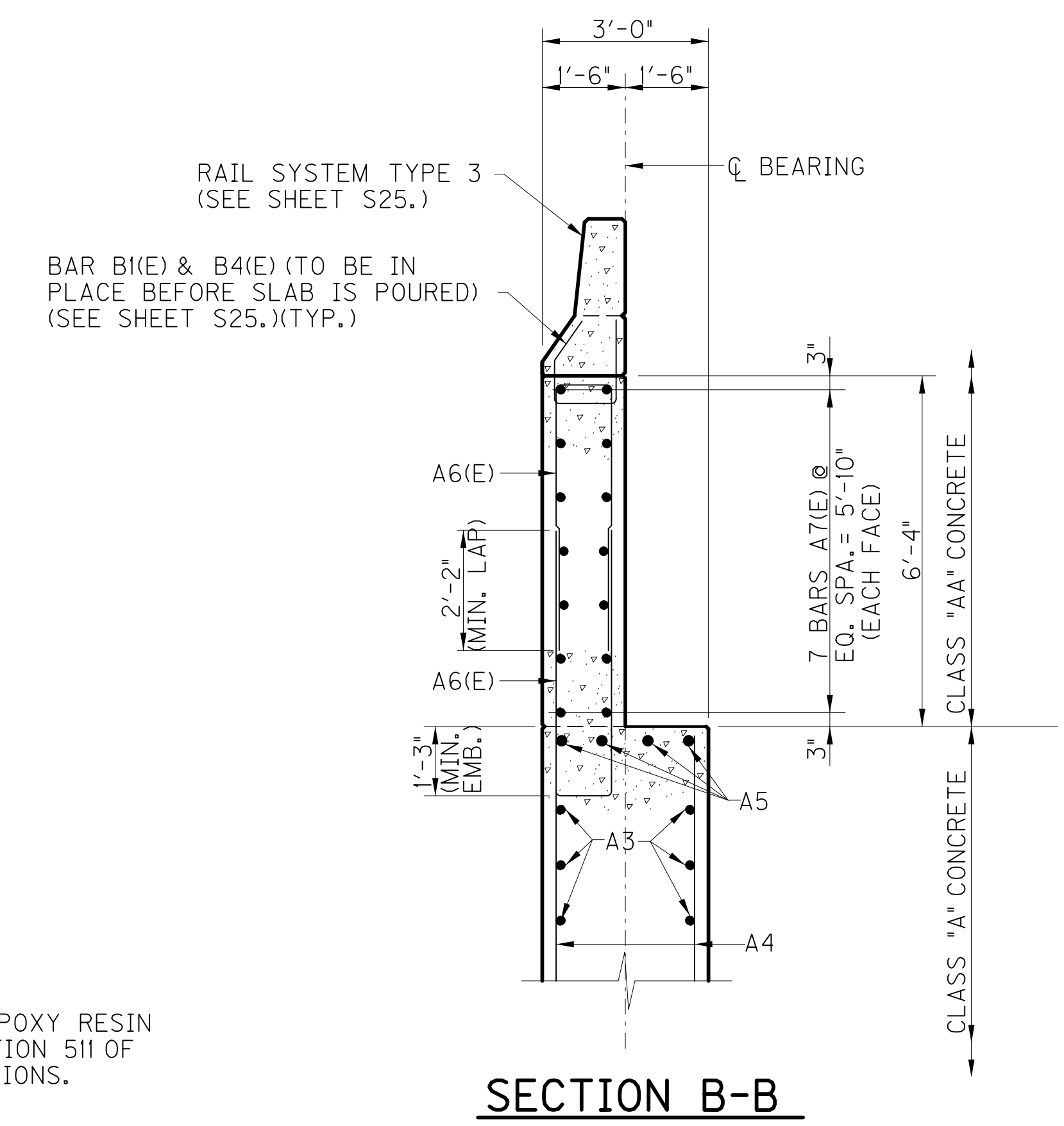
E-SHEET NAME:



PLAN
(SHOWING REINFORCEMENT)



SECTION A-A



SECTION B-B

1 REVISED 09-07-2011

REVISION	DATE

DATE: 09/07
DESIGNED BY: WTB
CHECKED BY: RSC
DETAILED BY: CH
WTB

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY
LETCHER

ROUTE CROSSING
CR 1376 NORTH FORK KENTUCKY RIVER

ABUTMENT 1

PREPARED BY
WMB INC., ENGINEERS

SHEET NO.
S10
DRAWING NO.
26019

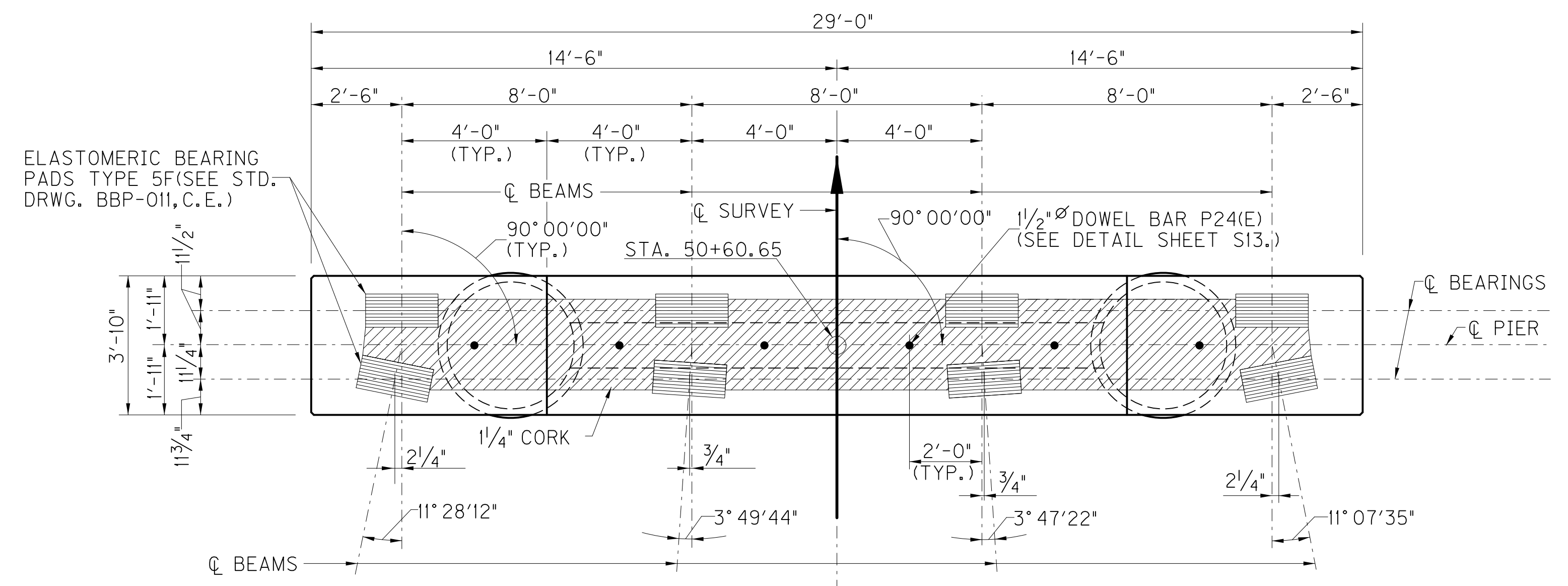
ITEM NUMBER
12-1081.00

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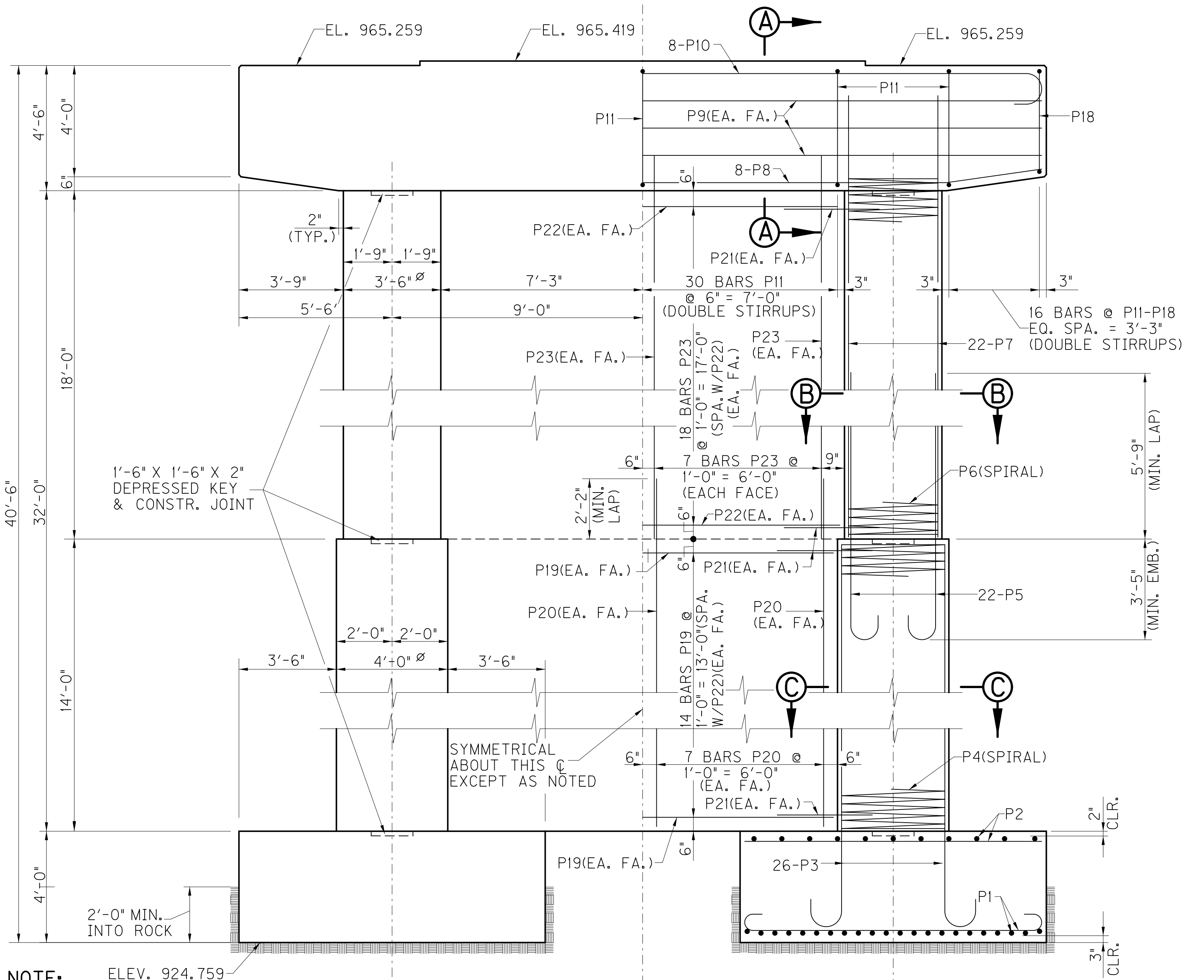
FILE NAME: 12.P1A

DATE: September 07, 2011 USER: KTA_USER

E-SHEET NAME:

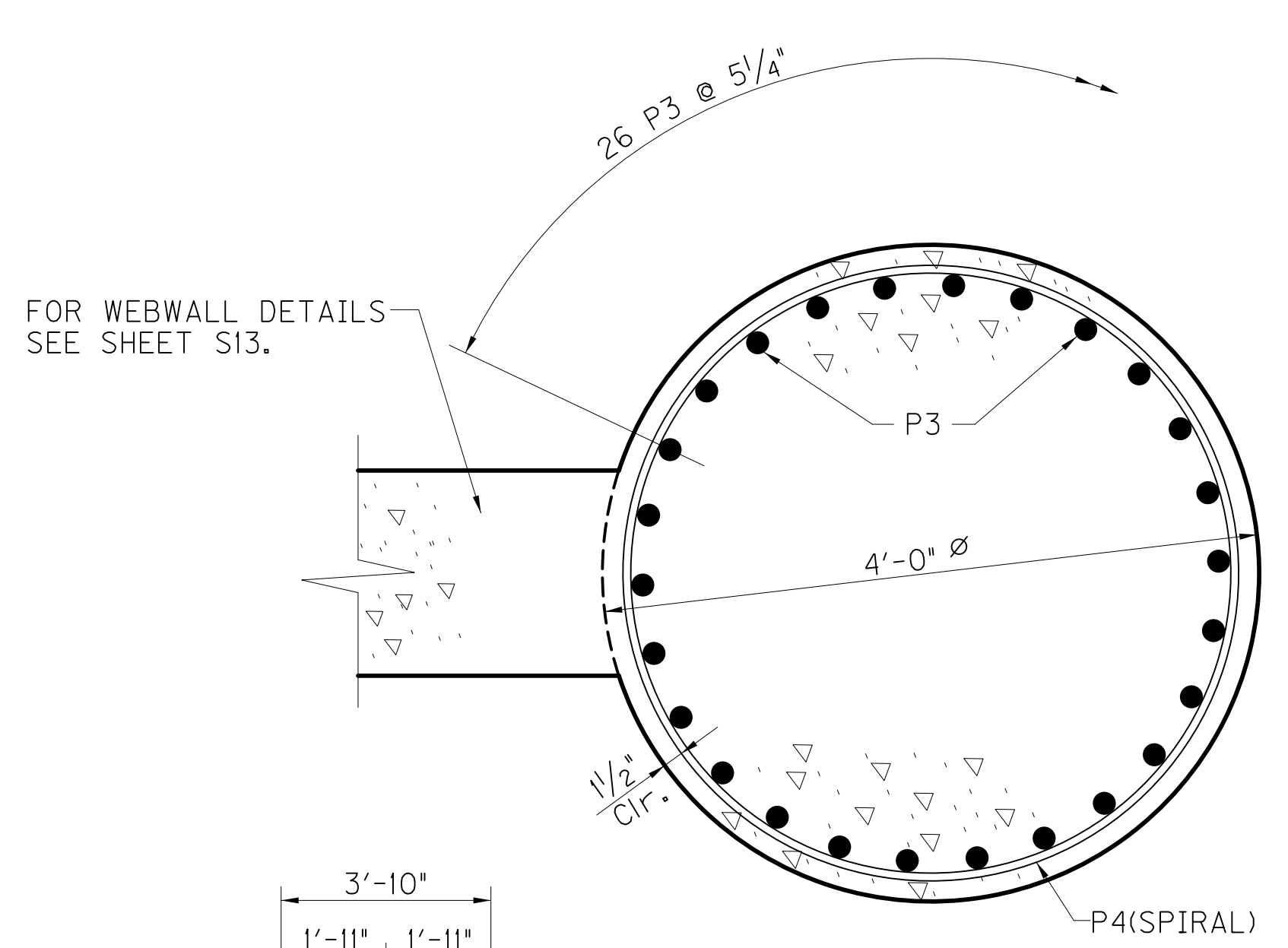


PLAN OF CAP

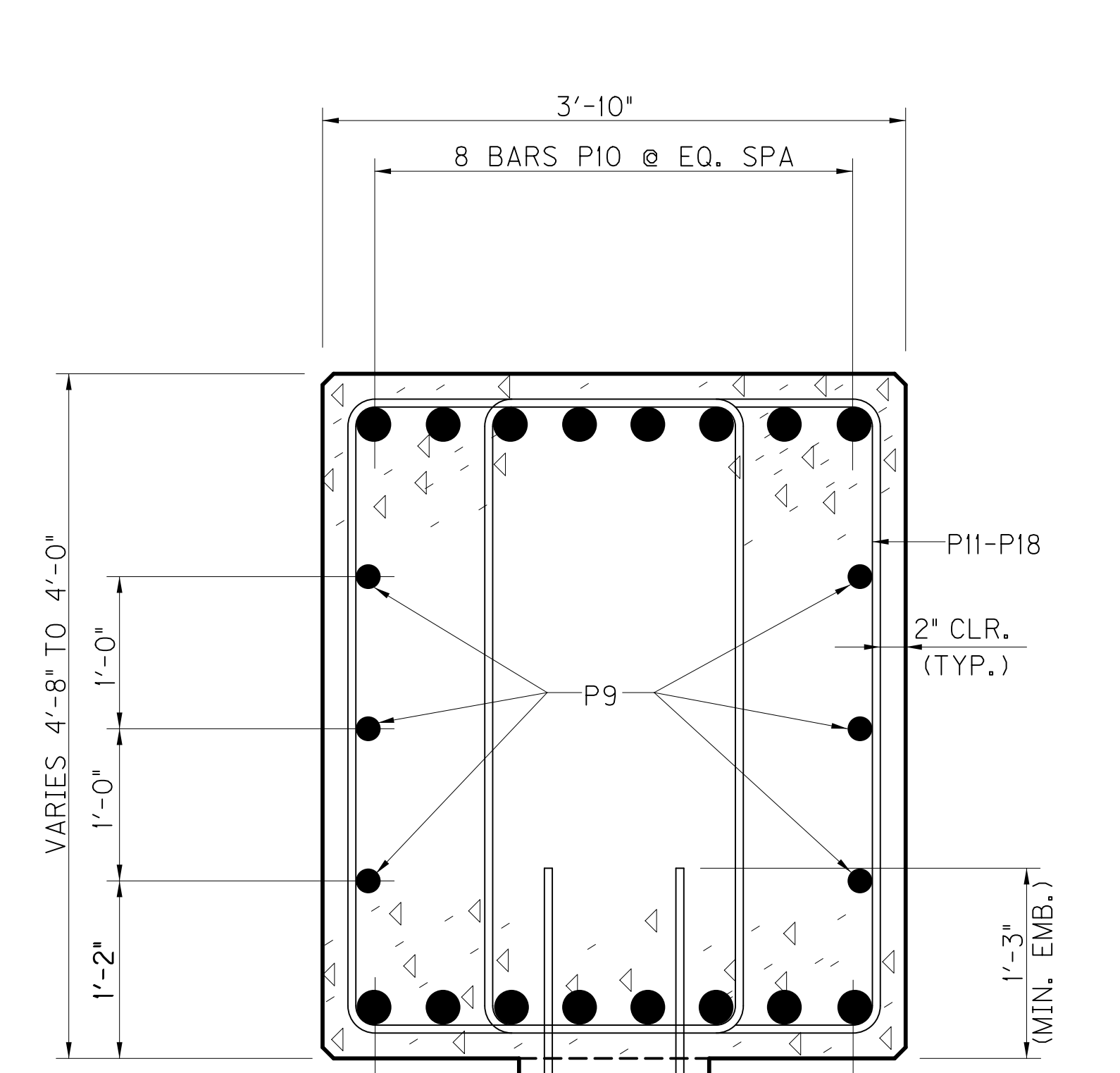


ELEVATION

NOTE: ELEV. 924.759
 POUR FOOTING AGAINST SOLID ROCK. ANY ADDITIONAL CONCRETE & STRUCTURE EXCAVATION OUTSIDE NEAT LINES OF FOOTING IS INCIDENTAL TO PLAN QUANTITY OF CONCRETE CLASS "A".

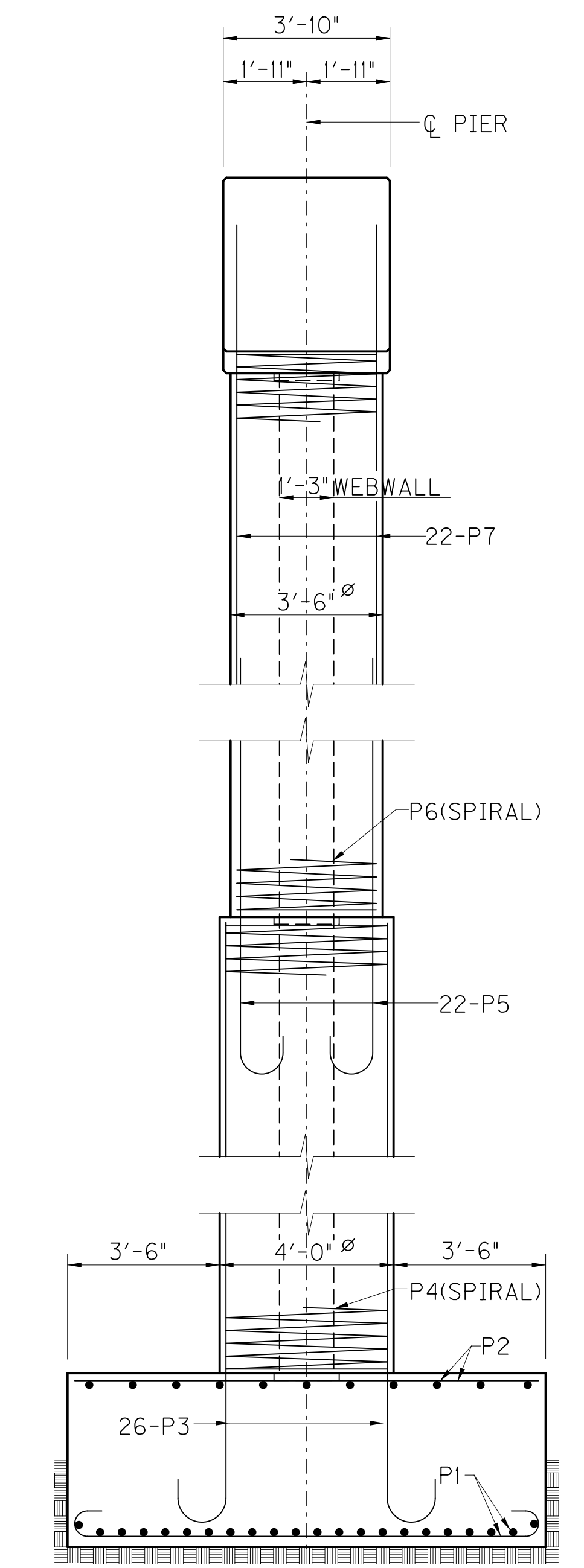


SECTION C-C

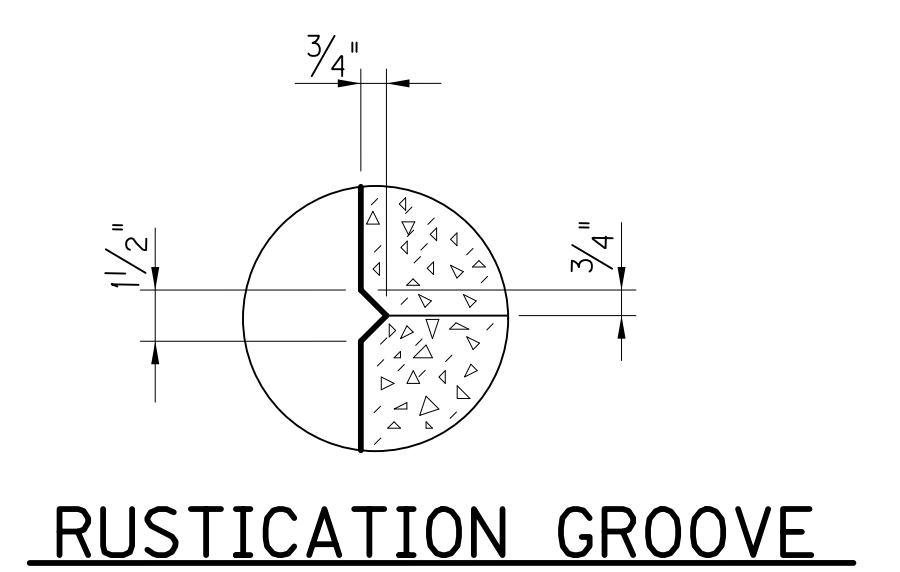


SECTION A-A

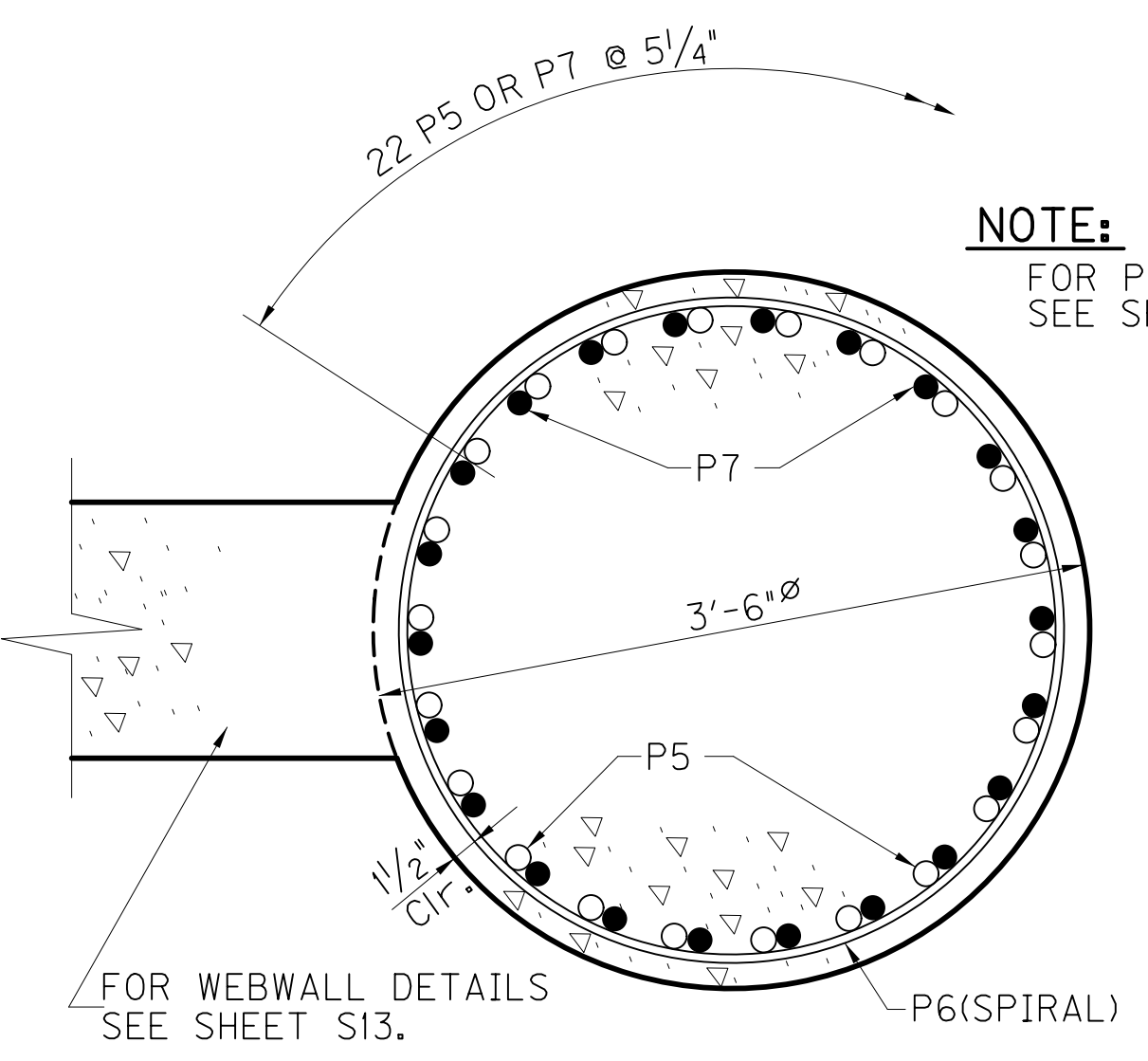
NOTE:
 FOR PLAN OF FOOTINGS AND BILL OF REINFORCEMENT SEE SHEET S13.



END ELEVATION



RUSTICATION GROOVE



SECTION B-B

FOR WEBWALL DETAILS SEE SHEET S13.

REVISI REVISION DATE

REVISION	DATE

DATE: 09/07 CHECKED BY: RSC
 DESIGNED BY: WTB
 DETAILED BY: CH WTB

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY
LETCHER

ROUTE CROSSING
CR 1376 NORTH FORK KENTUCKY RIVER

PIER 1

PREPARED BY: WMB INC., ENGINEERS

ITEM NUMBER: 12-1081.00

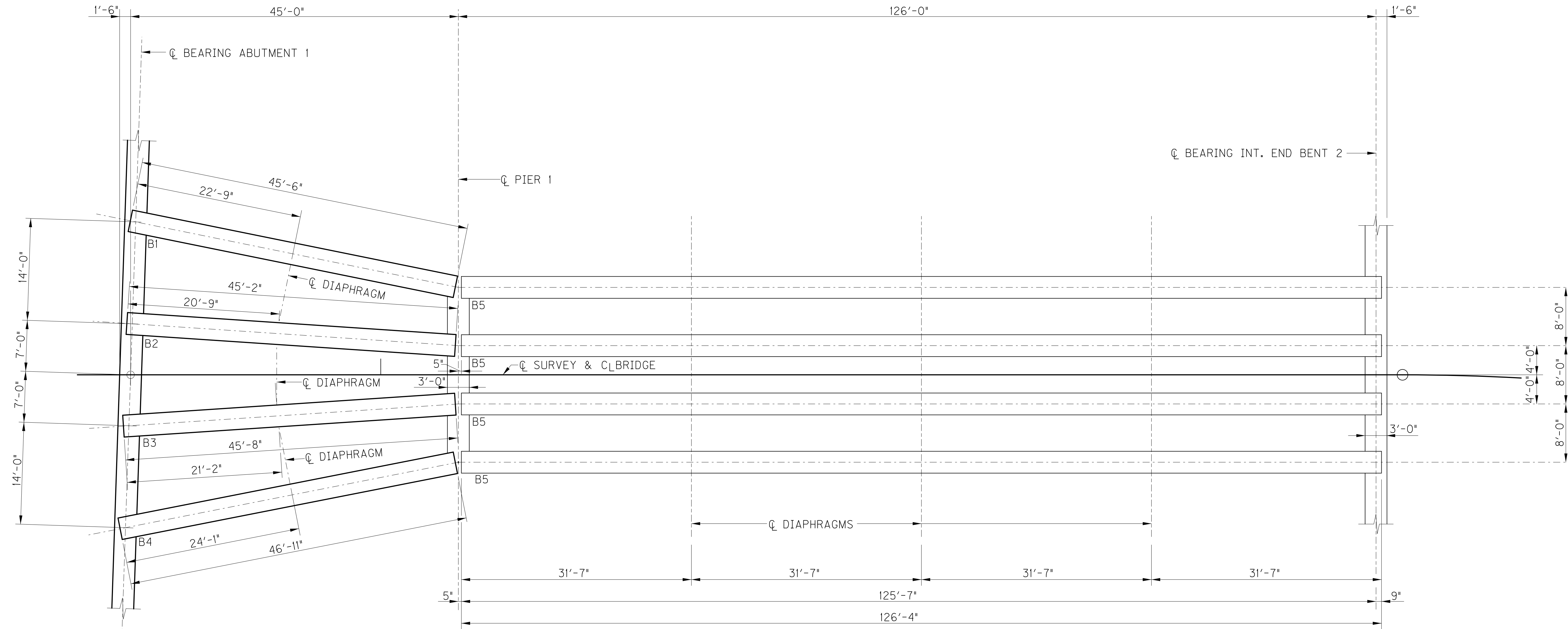
SHEET NO. **S12**
 DRAWING NO. **26019**

SHEET LOCATION:

FILE NAME: 16.NJI

DATE: September 07, 2011 USERNAME: KTA_USER

E-SHEET NAME:



FRAMING PLAN

⊗ MARK END OF BEAMS SEE SHEET S17.

NOTES:
 FOR BEAM DETAILS SEE SHEET S17.
 FOR INTERMEDIATE DIAPHRAGMS SEE SHEETS S18 & S19.

1 REVISED 09-07-2011

REVISION	DATE

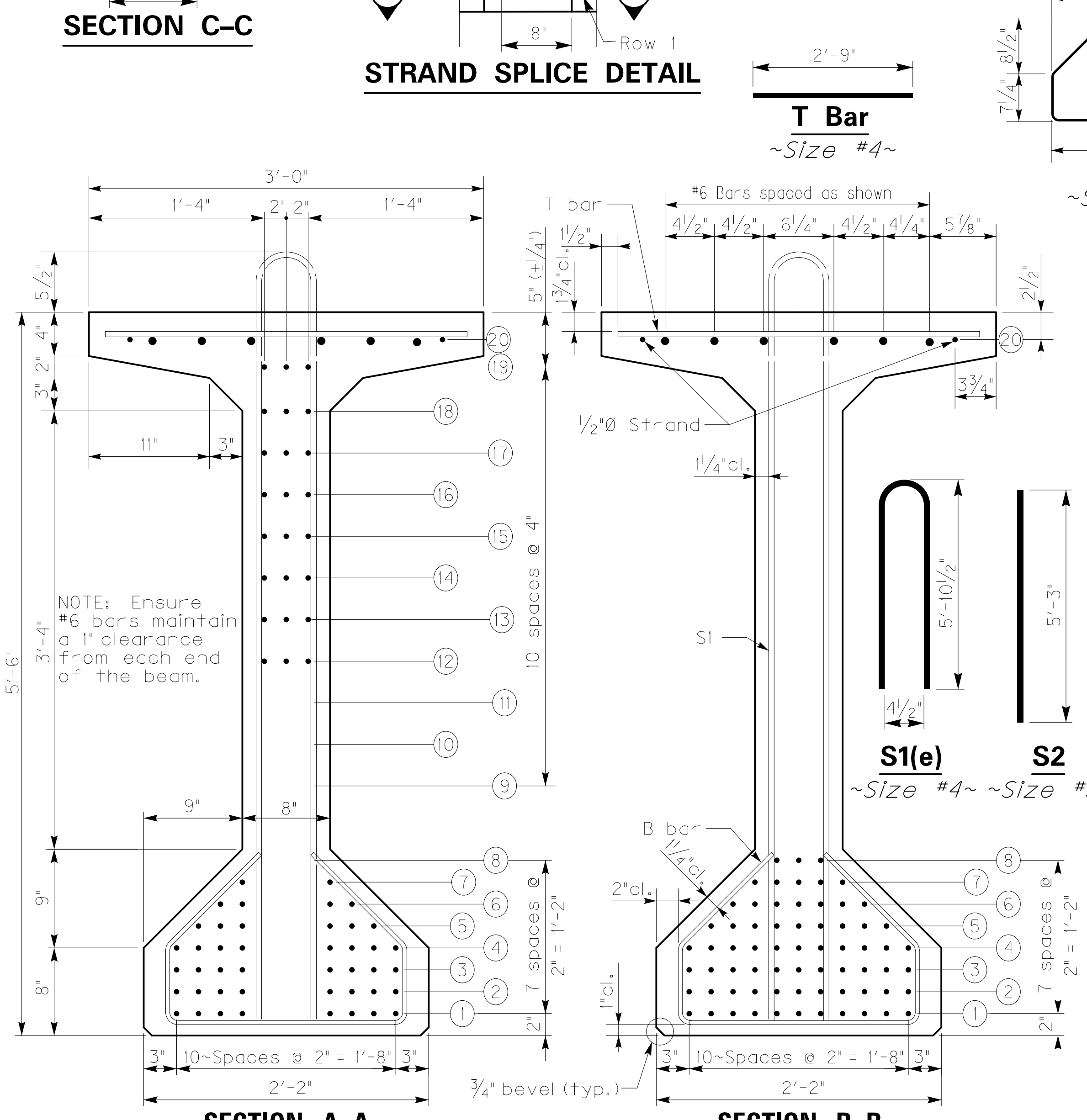
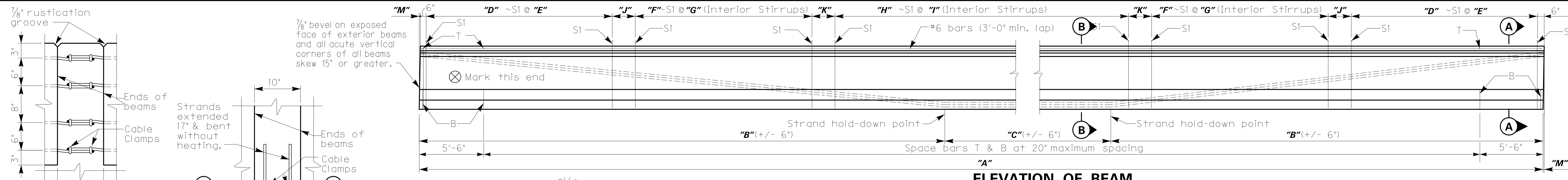
DATE: 09/07	CHECKED BY
DESIGNED BY: WTB	RSC
DETAILED BY: CBH	WTB

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
 COUNTY

ROUTE	CROSSING
CR 1376	NORTH FORK KENTUCKY RIVER

FRAMING PLAN

ITEM NUMBER	PREPARED BY	SHEET NO.
12-1081.00	WMB INC., ENGINEERS	S16
		DRAWING NO.
		26019



General Notes

CONCRETE: Ensure prestressed girder concrete is in accordance with these plans and the specifications.

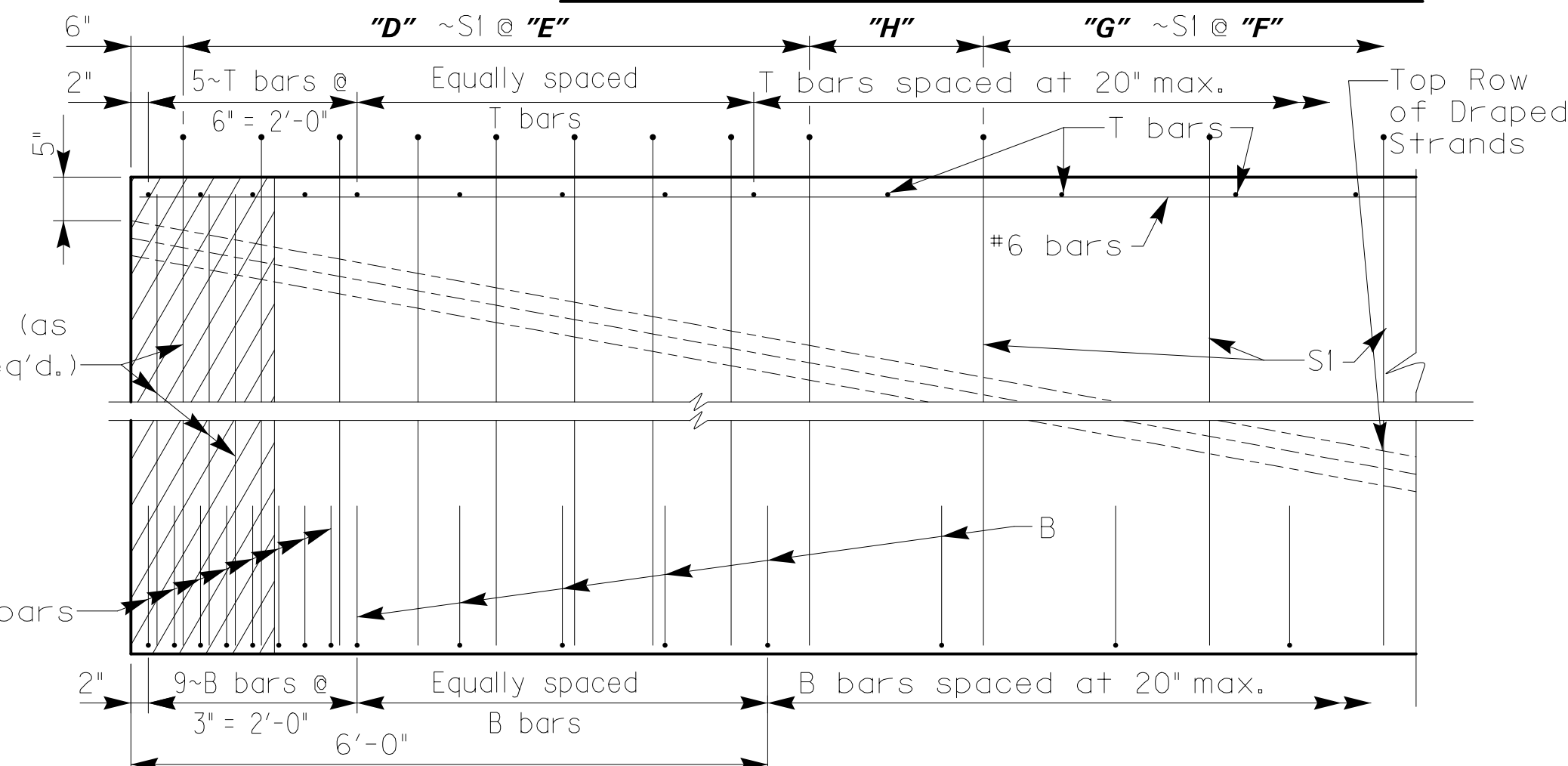
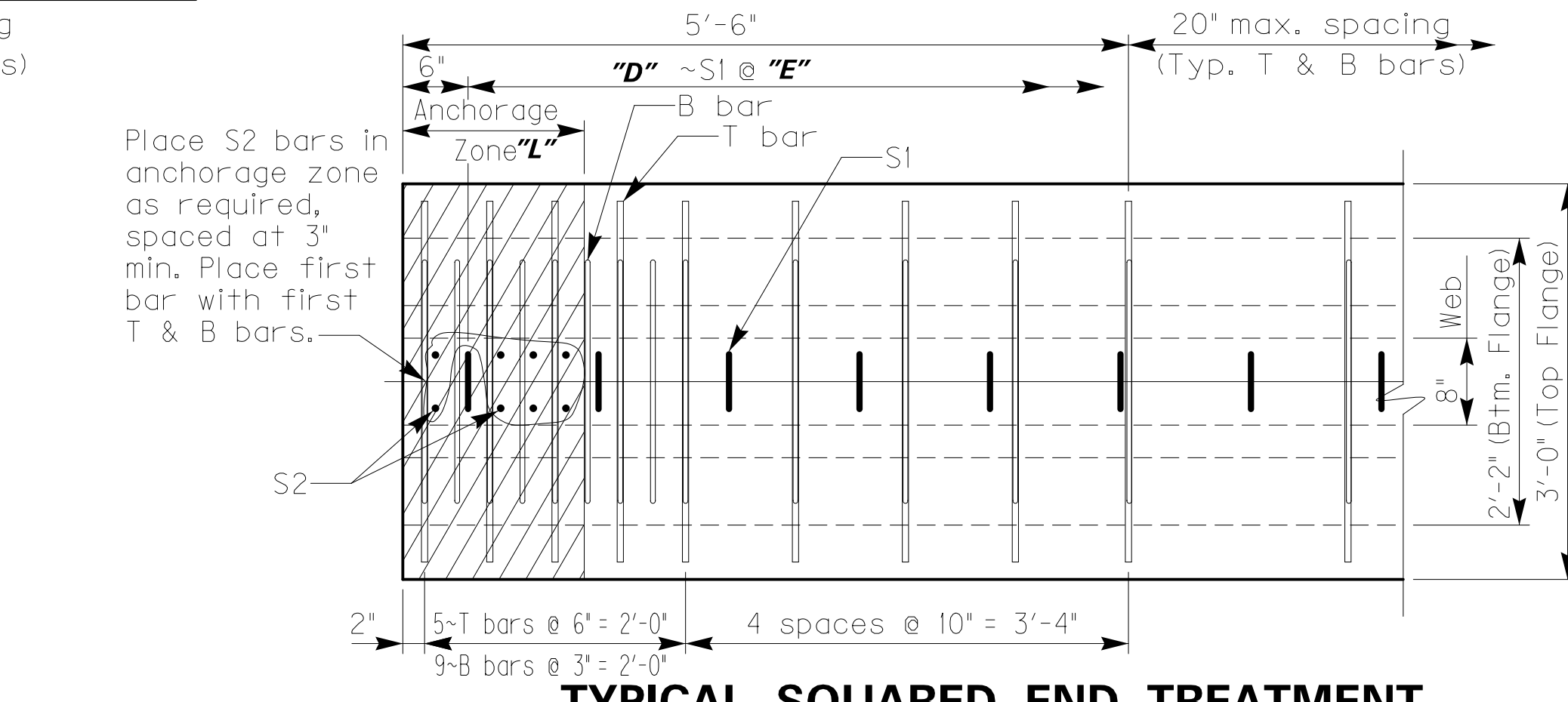
MATERIALS DESIGN SPECIFICATIONS: For prestressed beams:
 FY = 60,000 psi F'S = 270,000 psi

PRESTRESSING REINFORCEMENT: Ensure that strands are 1/2" (nominal diameter, 0.153 sq. in.), uncoated seven-wire low-relaxation strand conforming to AASHTO M 203, Grade 270. Billing of the cost for redesign of beam and subsequent plan modifications will be made for any request of alternate strand type or arrangement. The designer of the original plans is responsible for the billing and work.

CONSTRUCTION METHOD: Pretension all beams. Ensure concrete has attained f'ci (shown in the table) in standard test cylinders that are made and cured identically with the beams without bond stresses being transferred to the concrete or releasing the end anchors. Attain f'c (shown in the table) at or prior to 28 days. Apply an initial force of 31,003 lbs. per low-relaxation strand to develop a stress of 202,500 psi. No beam will be accepted that is honeycombed to the extent that strength of the beam or resistance to deterioration has been affected. An allowance of 0.0005L is made for shortening of beams due to shrinkage and elastic change. Show a detensioning plan by sequential numbering of the strand pattern on the shop plans.

LIFTING DEVICES: Detail lifting devices on the shop plans. Loads are to be distributed equally to each device.

BEARING DEVICES: Include the price for lead plates and/or bearing pads in the bid for precast beams.



REVISED 09-07-2011

REVISION	DATE

Strand Data with number indicated in rows																										Concrete Stress (psi)	No. of S Bars	Hold-Down Capacity	Beam Data (measured along centerline)																Approximate Weight	Maximum Allowable Camber				
Mark	Midspan (SECTION B-B)										End (SECTION A-A)										Total No.	f'ci	f'c	S1	S2				lbs.	Total No.	Dimensions																			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)						(11)	(12)	(13)			(14)	(15)	(16)	(17)	(18)	(19)	(20)	A	B	C	D	E	F	G	H	I	J	K	L	M
B1	11	3								2	8																											43,043	4 1/8"											
B2	11	3								2	8																									42,728	4 1/8"													
B3	11	3								2	8																								43,200	4 1/8"														
B4	11	3								2	8																								44,383	4 1/8"														
B5	11	11	11	11	9					2	11	11	8	8	6											3	3	3	2	55	6,000	7,500	121	8	23,160	4	126'-4"	50'-7"	25'-2"	4	8"	49	12"	15	18"	8"	18"	16"	119,511	6 1/2"

Commonwealth of Kentucky
 DEPARTMENT OF HIGHWAYS

COUNTY
LETCHER

ROUTE CROSSING
CR 1376 NORTH FORK KENTUCKY RIVER

PPC I-BEAM, 66", DETAILS

PREPARED BY
WMB INC., ENGINEERS

SHEET NO.
S17

DRAWING NO.
26019

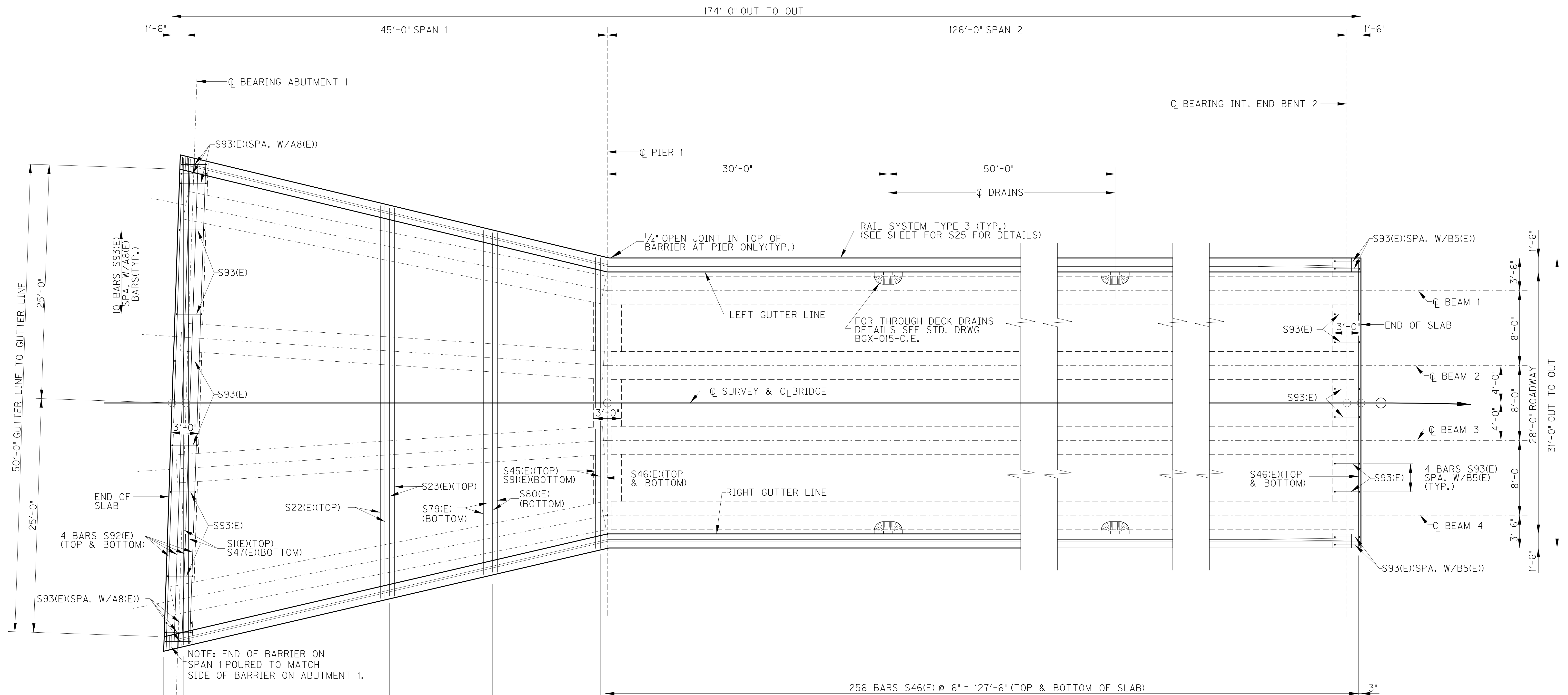
ITEM NUMBER
 12-1081.00

SHEET LOCATION:

FILE NAME: 20_SSI

DATE: September 07, 2010 USERNAME: KTA_USER

E-SHEET NAME:



256 BARS S46(E) @ 6" = 127'-6" (TOP & BOTTOM OF SLAB)

PLAN

NOTE:
 FOR TYPICAL SECTIONS AND DIAPHRAGM DETAILS SEE SHEETS S21-S23.
 FOR NEGATIVE REINFORCEMENT SEE SHEET S24.
 FOR BILL OF REINFORCEMENT SEE SHEET S26.

1 REVISED 09-07-2011

REVISION		DATE
DATE: 09/07 DESIGNED BY: WTB CHECKED BY: RSC DETAILED BY: CBH WTB		
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS <small>COUNTY</small> LETCHER		
ROUTE CR 1376	CROSSING NORTH FORK KENTUCKY RIVER	
SUPERSTRUCTURE <small>PREPARED BY</small>		
ITEM NUMBER 12-1081.00	WMB INC., ENGINEERS	SHEET NO. S20 DRAWING NO. 26019

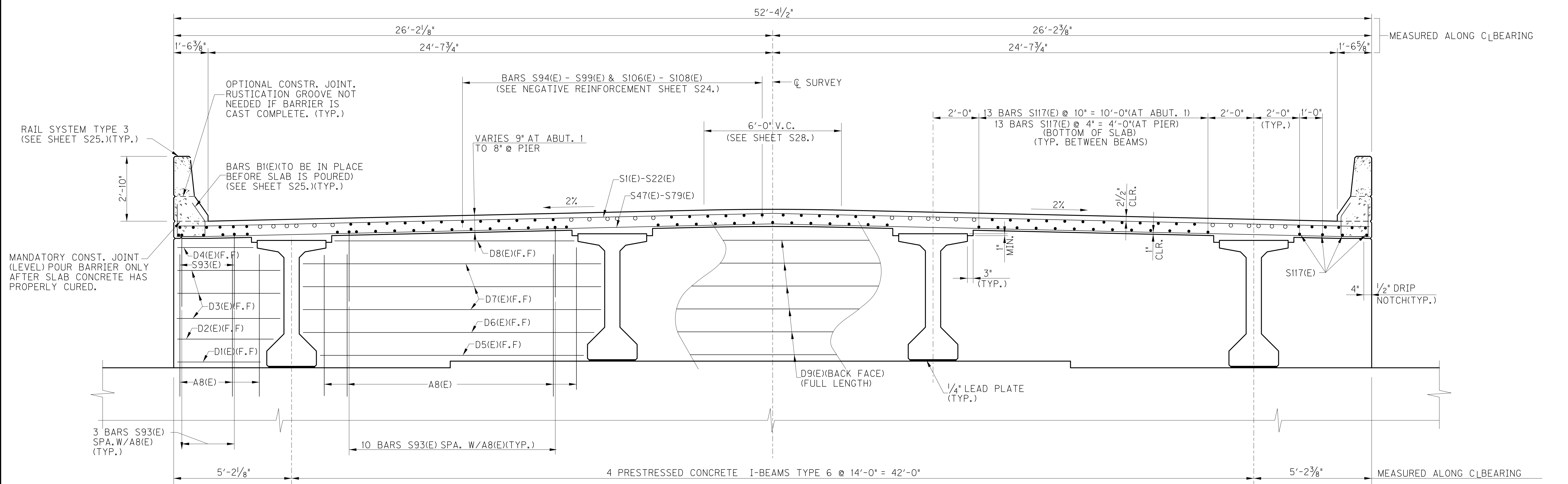
ITEM NUMBER	12-1081.00
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SHEET LOCATION:

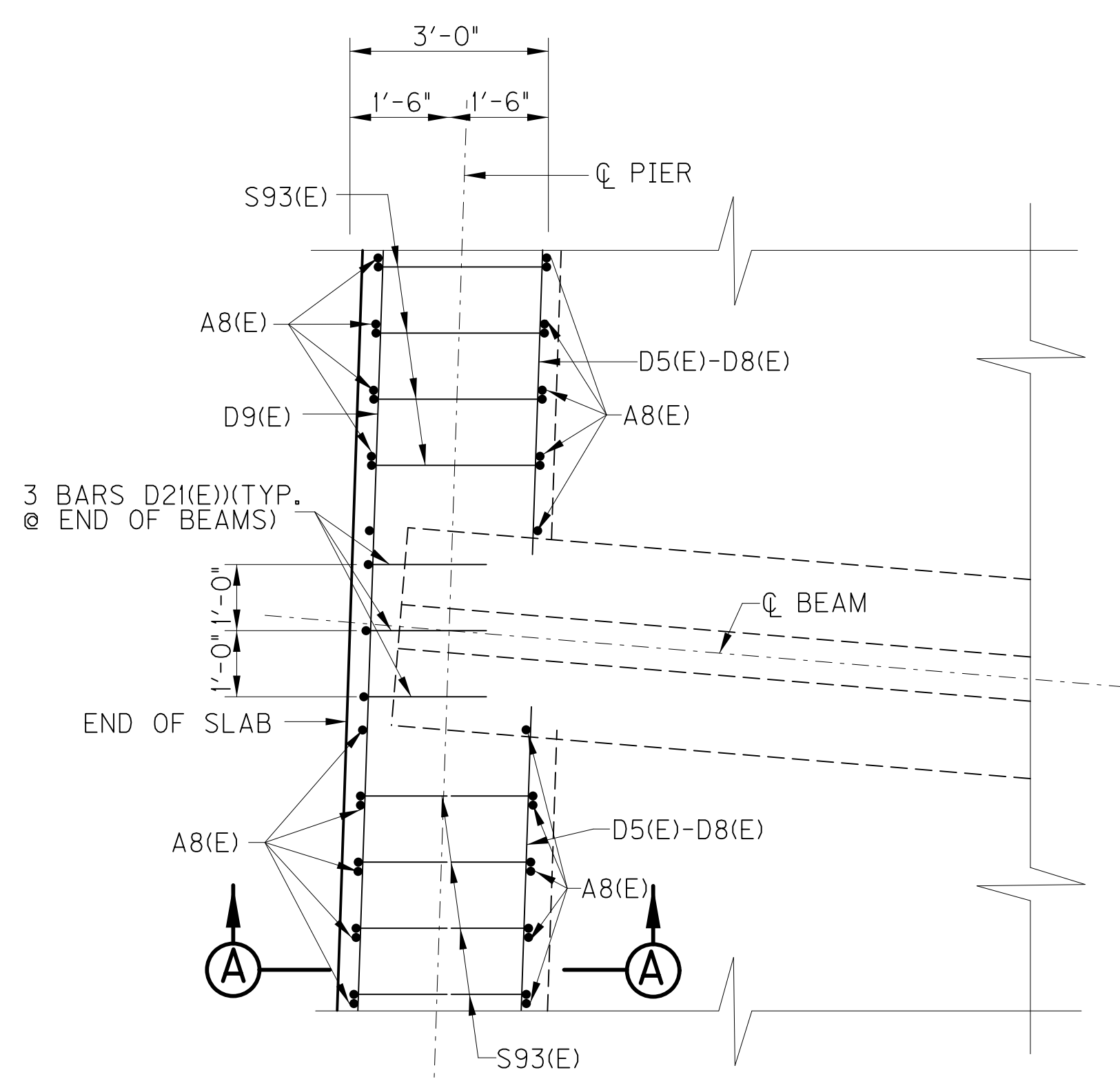
FILE NAME: 21_S2

DATE: September 07, 2010 USER: KTA

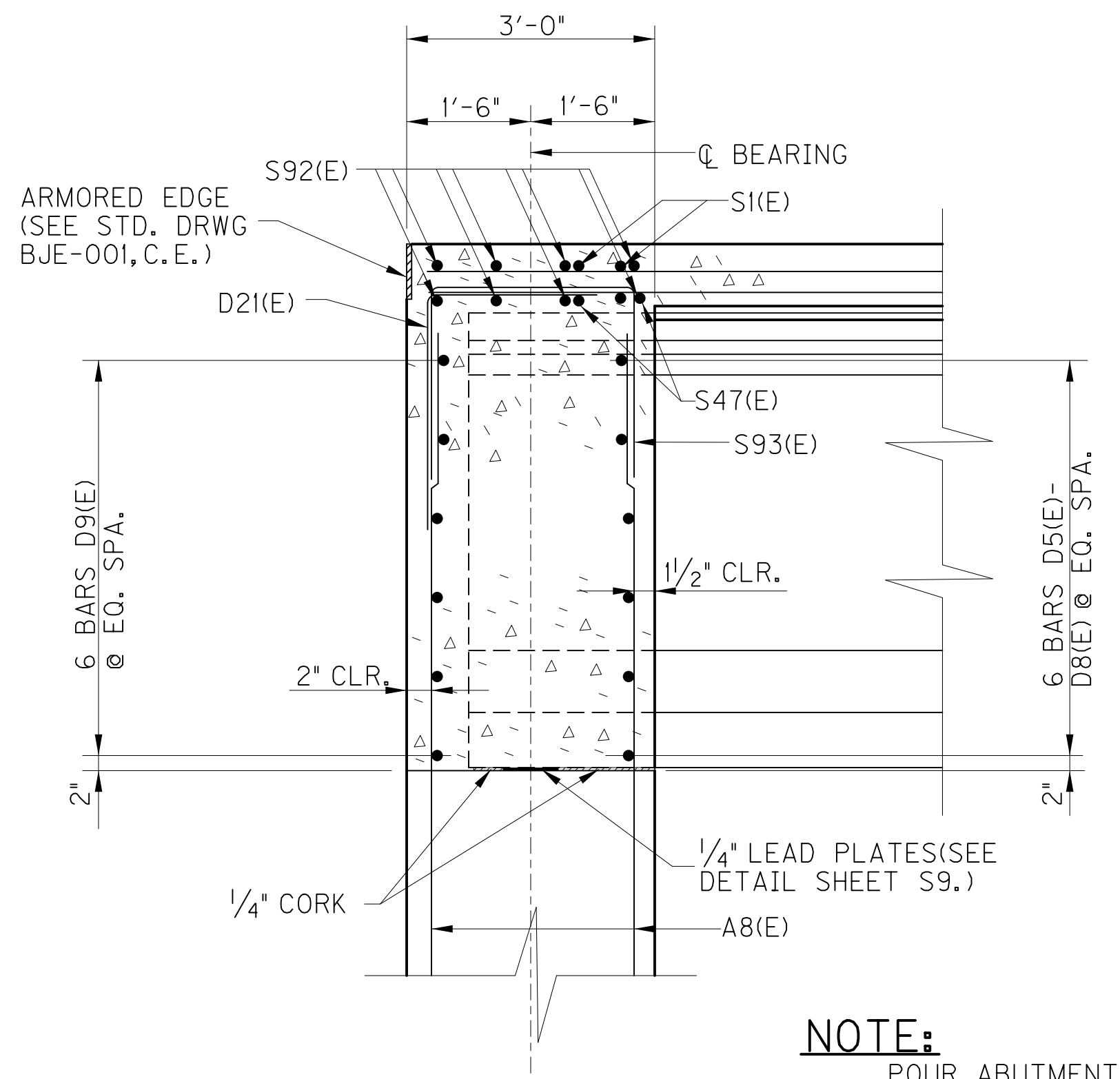
E-SHEET NAME:



TYPICAL SECTION
(SPAN 1 AT ABUTMENT 1 LOOKING AHEAD)



PART PLAN AT ABUTMENT

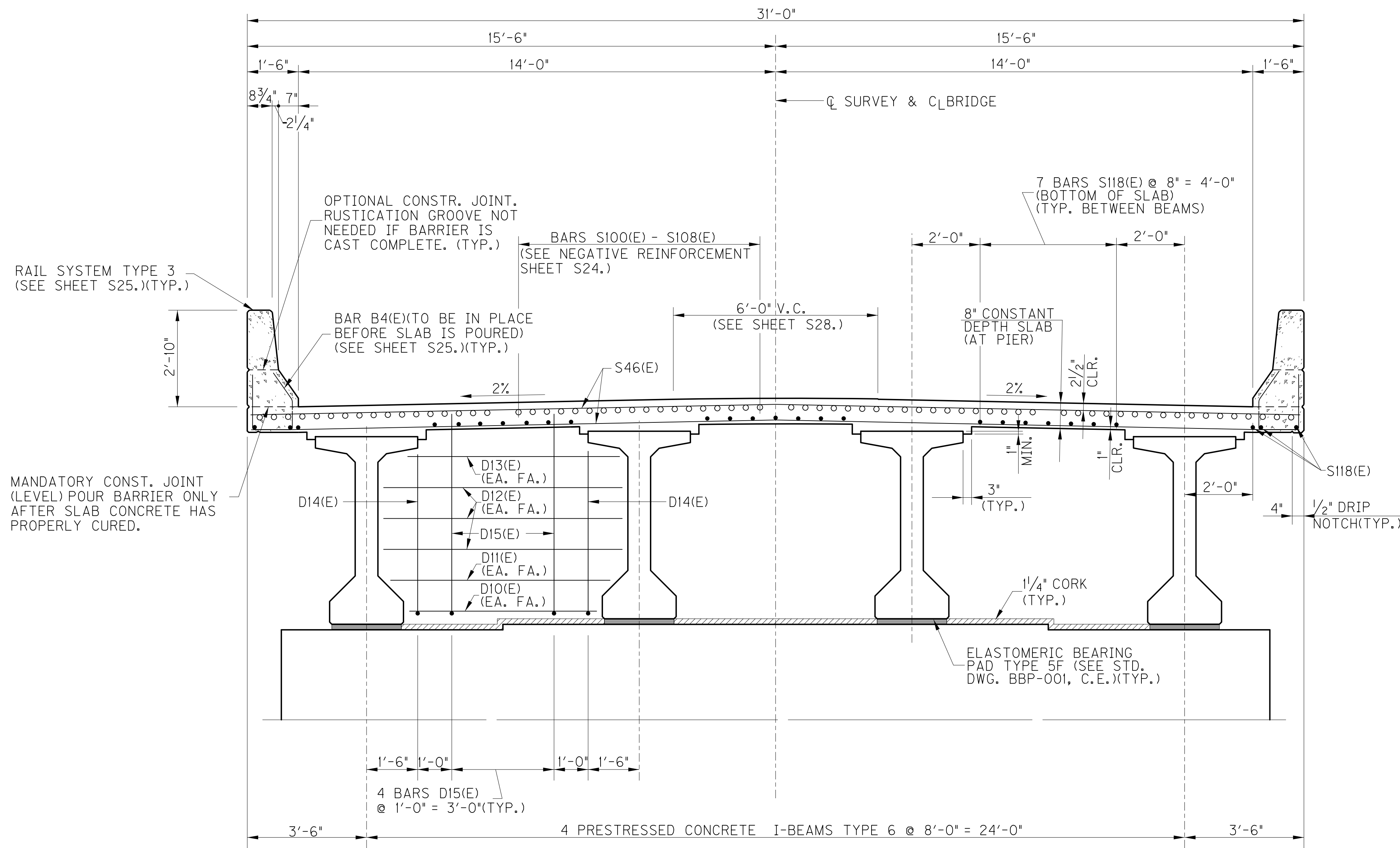


SECTION A-A

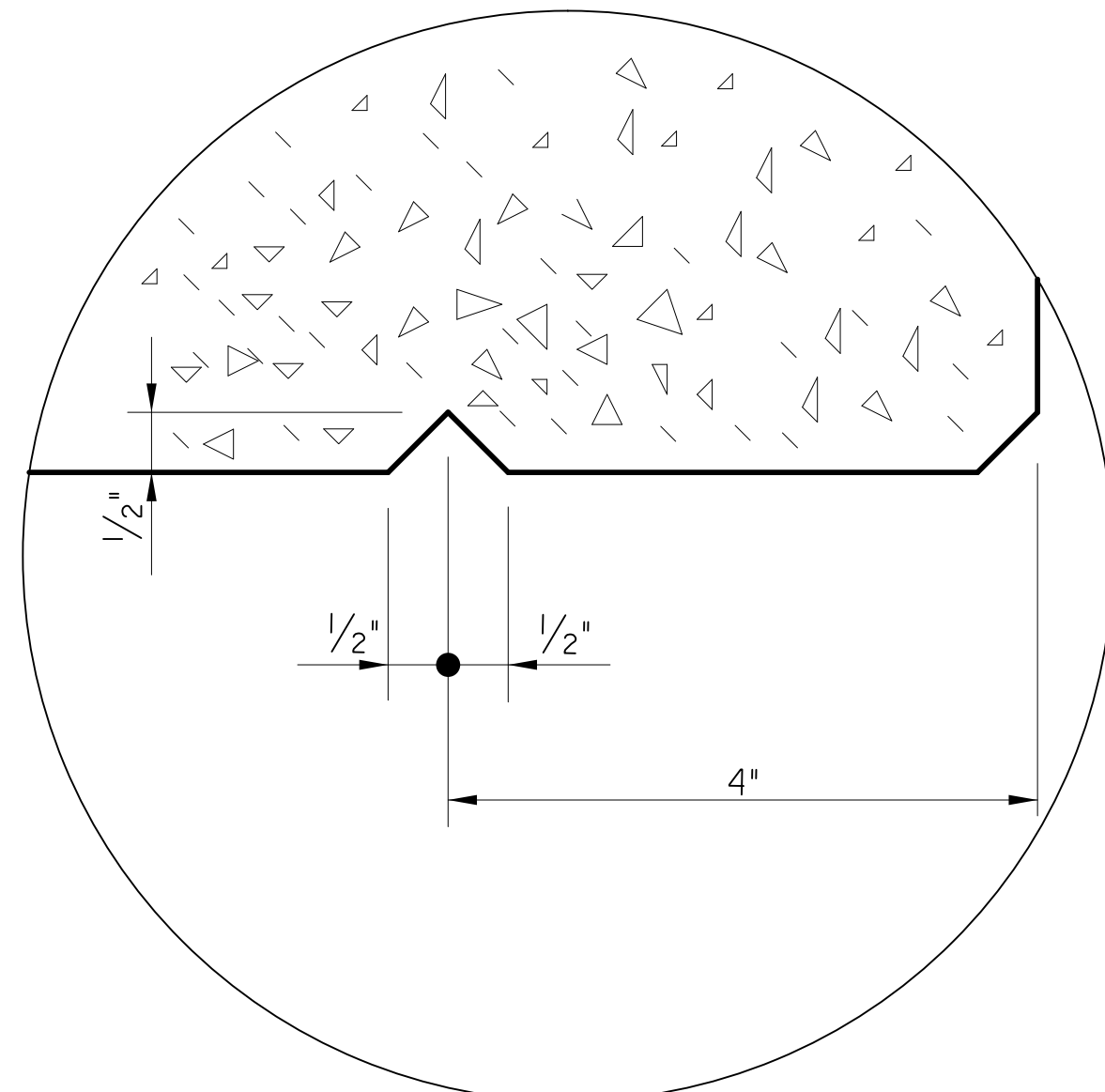
NOTE:
POUR ABUTMENT DIAPHRAGM MONOLITHICALLY WITH SLAB.

REVISED 09-07-2011

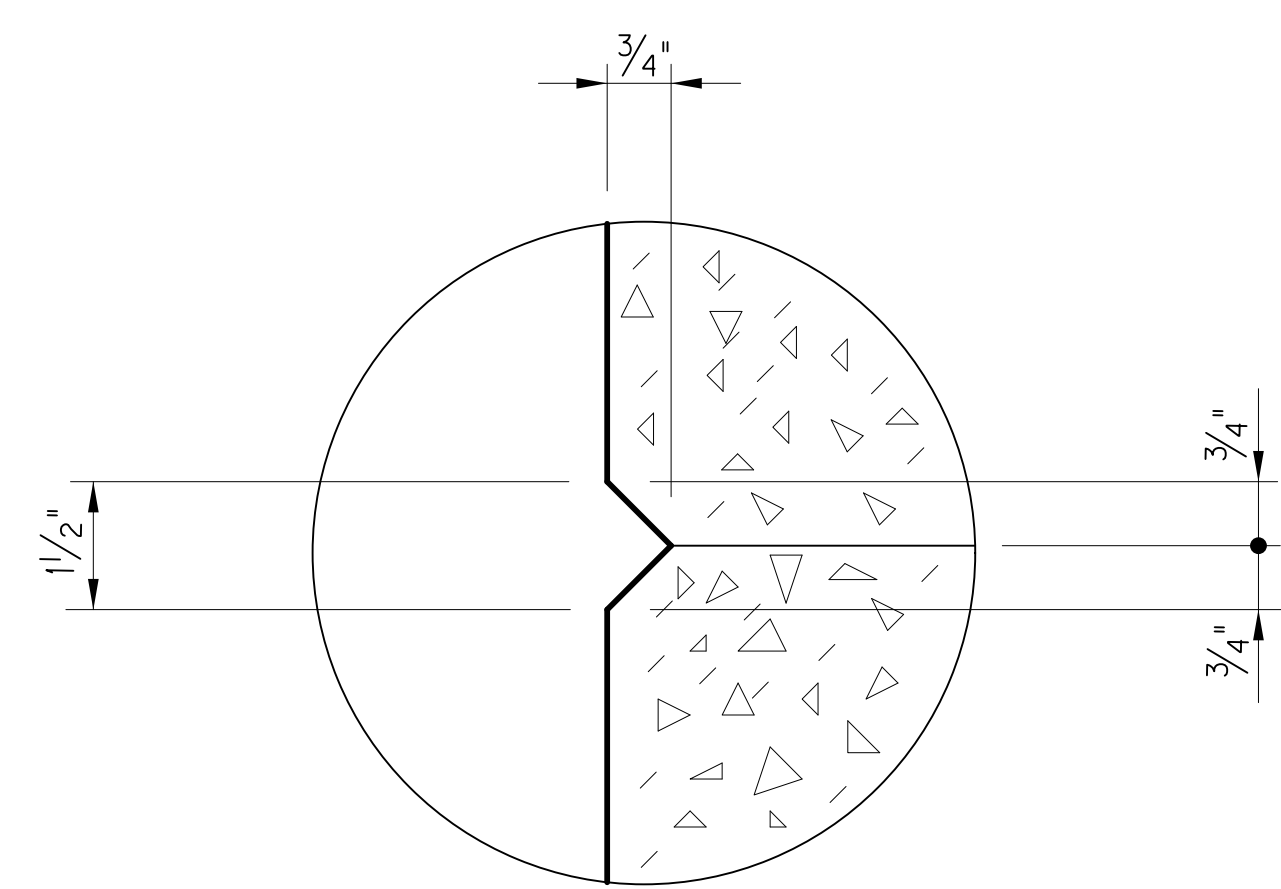
REVISION		DATE
DATE: 09/07		CHECKED BY:
DESIGNED BY: WTB		RSC
DETAILED BY: CBH		WTB
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
LETCHER		
ROUTE CR 1376	CROSSING NORTH FORK KENTUCKY RIVER	
SUPERSTRUCTURE		
ITEM NUMBER 12-1081.00		SHEET NO. S21
PREPARED BY WMB INC., ENGINEERS		DRAWING NO. 26019



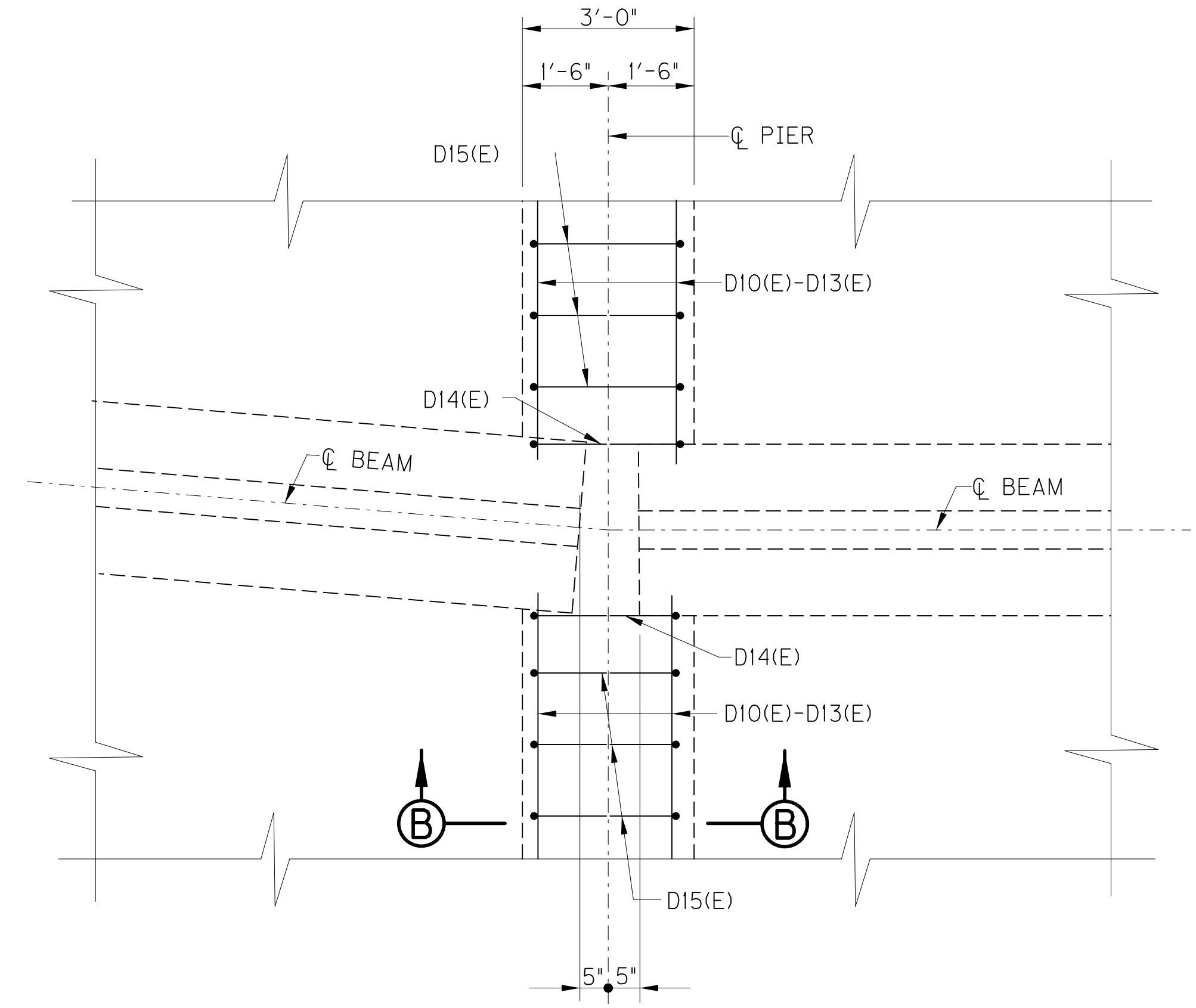
TYPICAL SECTION (SPAN 2 AT PIER)



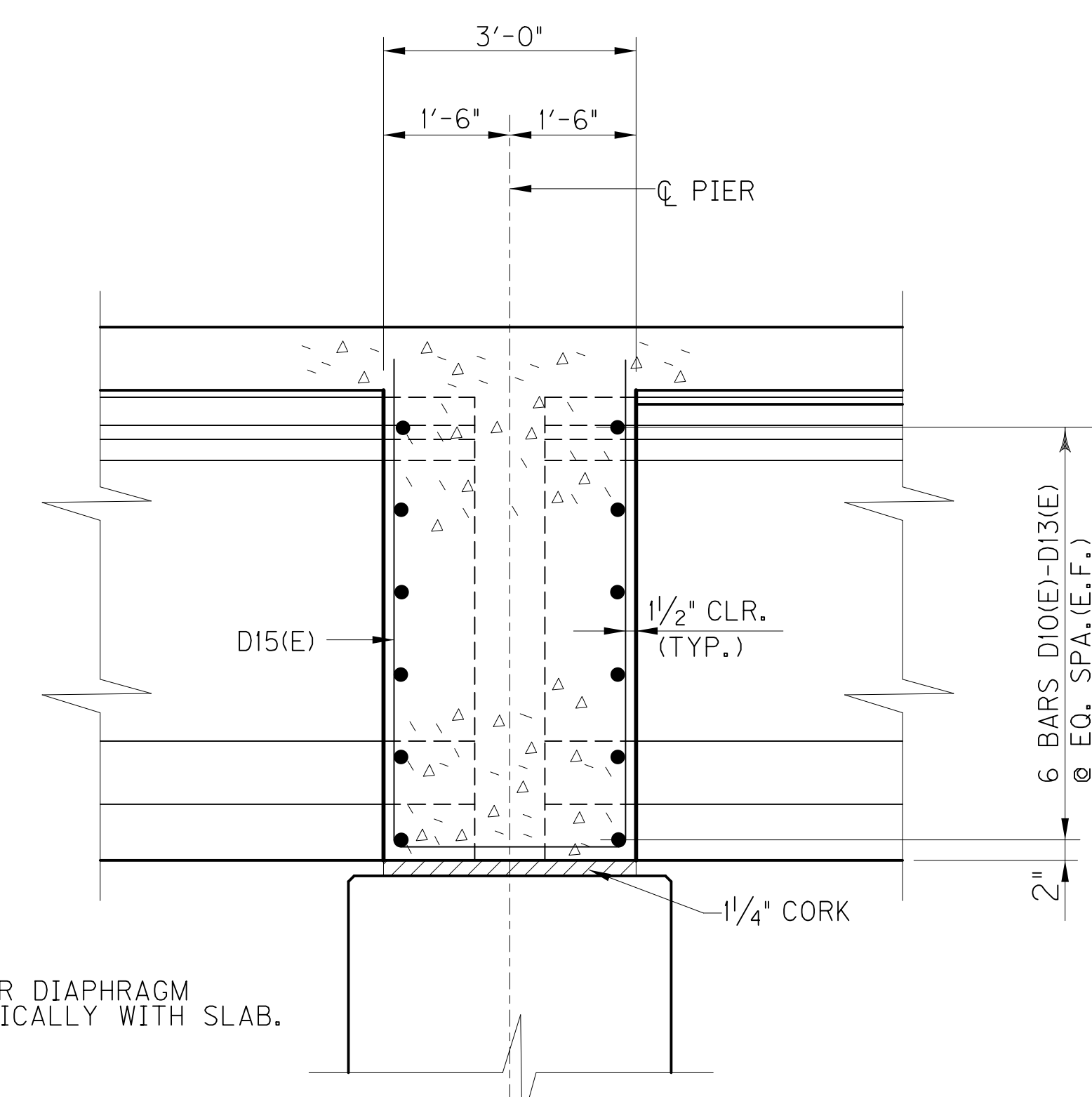
DRIP NOTCH DETAIL



RUSTICATION GROOVE



PART PLAN AT PIERS



SECTION B-B

NOTE: POUR PIER DIAPHRAGM MONOLITHICALLY WITH SLAB.

REVISED 09-07-2011

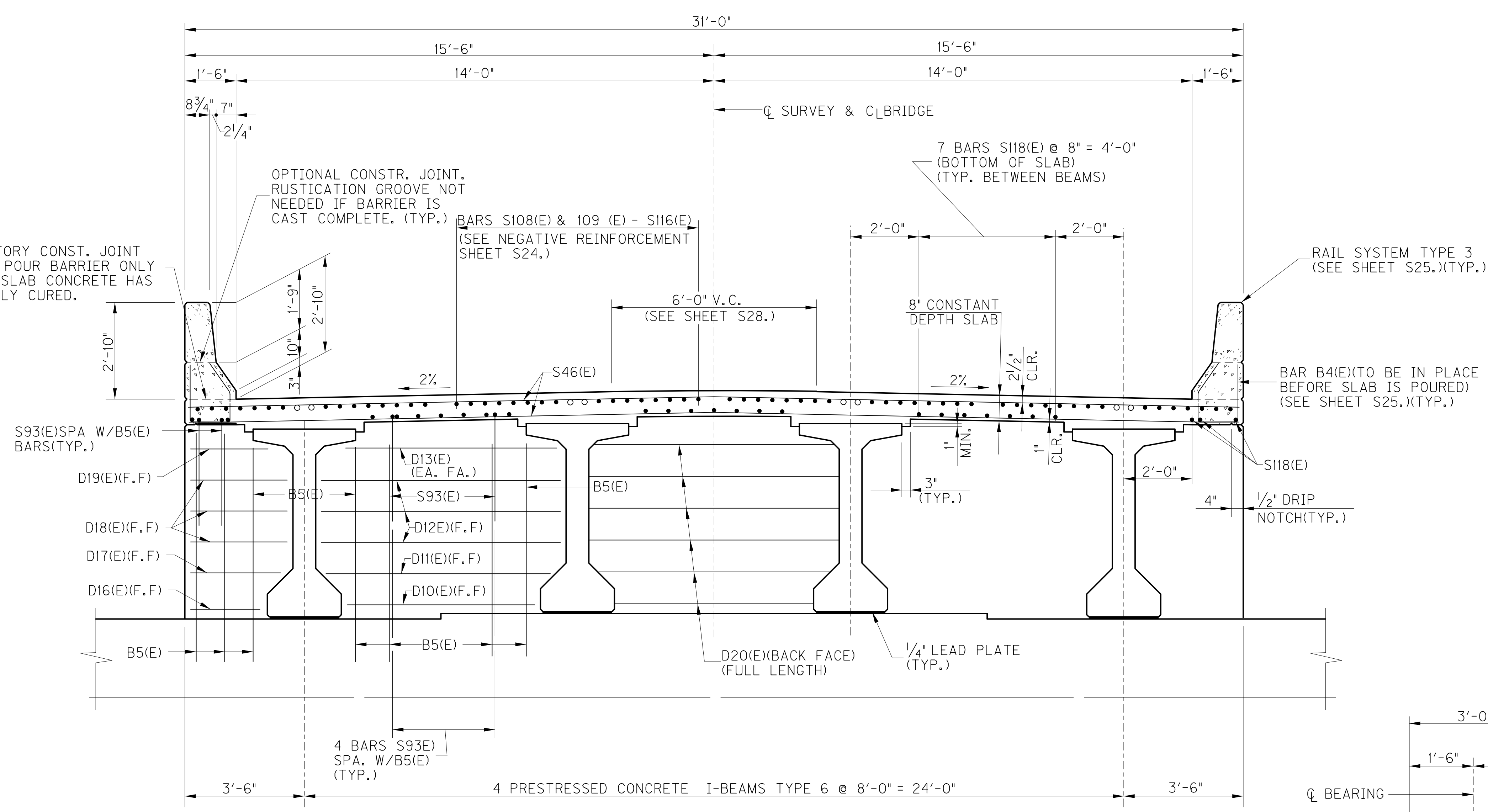
REVISION		DATE
DATE: 09/07	DESIGNED BY: WTB	CHECKED BY: RSC
DESIGNED BY: WTB	DETAILED BY: CBH	DETAILED BY: WTB
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
LETCHER		
ROUTE CR 1376	CROSSING NORTH FORK KENTUCKY RIVER	
SUPERSTRUCTURE		
ITEM NUMBER	PREPARED BY	SHEET NO.
12-1081.00	WMB INC., ENGINEERS	S22
		DRAWING NO. 26019

SHEET LOCATION:

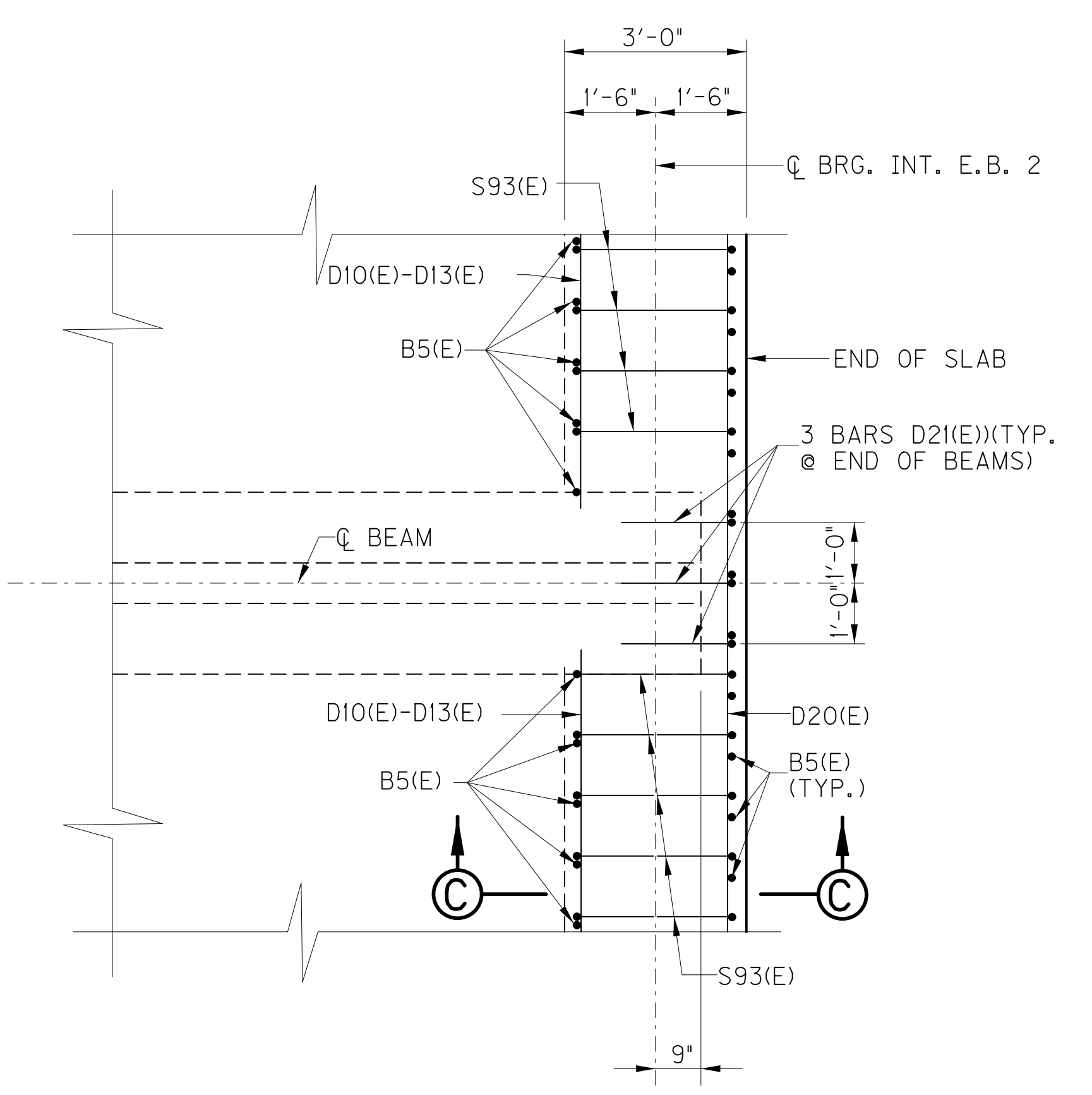
FILE NAME: 23.S54

DATE: September 07, 2011 USER NAME: KTA_USER

E-SHEET NAME:

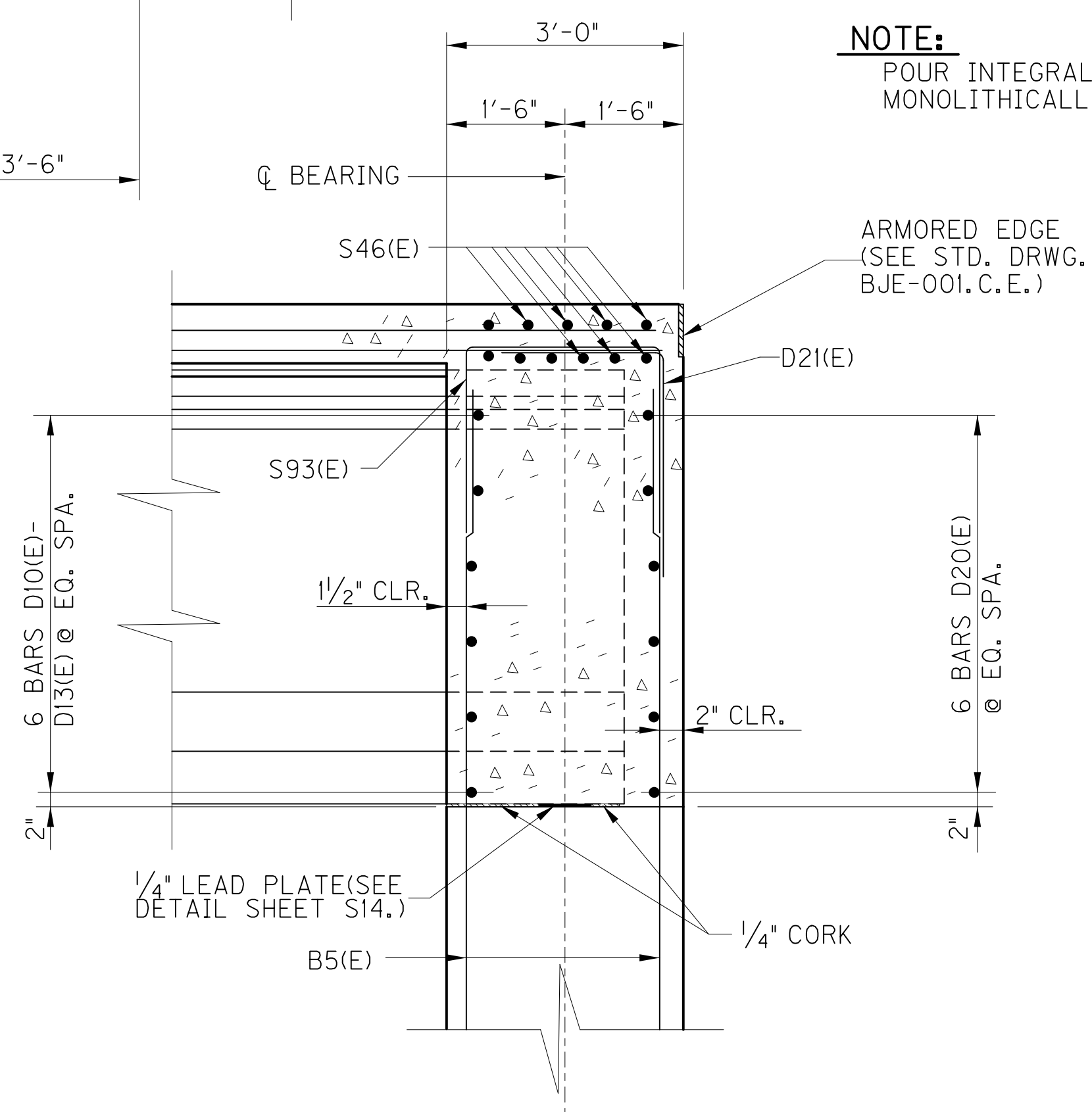


TYPICAL SECTION (SPAN 2 AT END BENT 2)



PART PLAN AT INTEGRAL END BENT

NOTE:
POUR INTEGRAL END BENT DIAPHRAGM MONOLITHICALLY WITH SLAB.



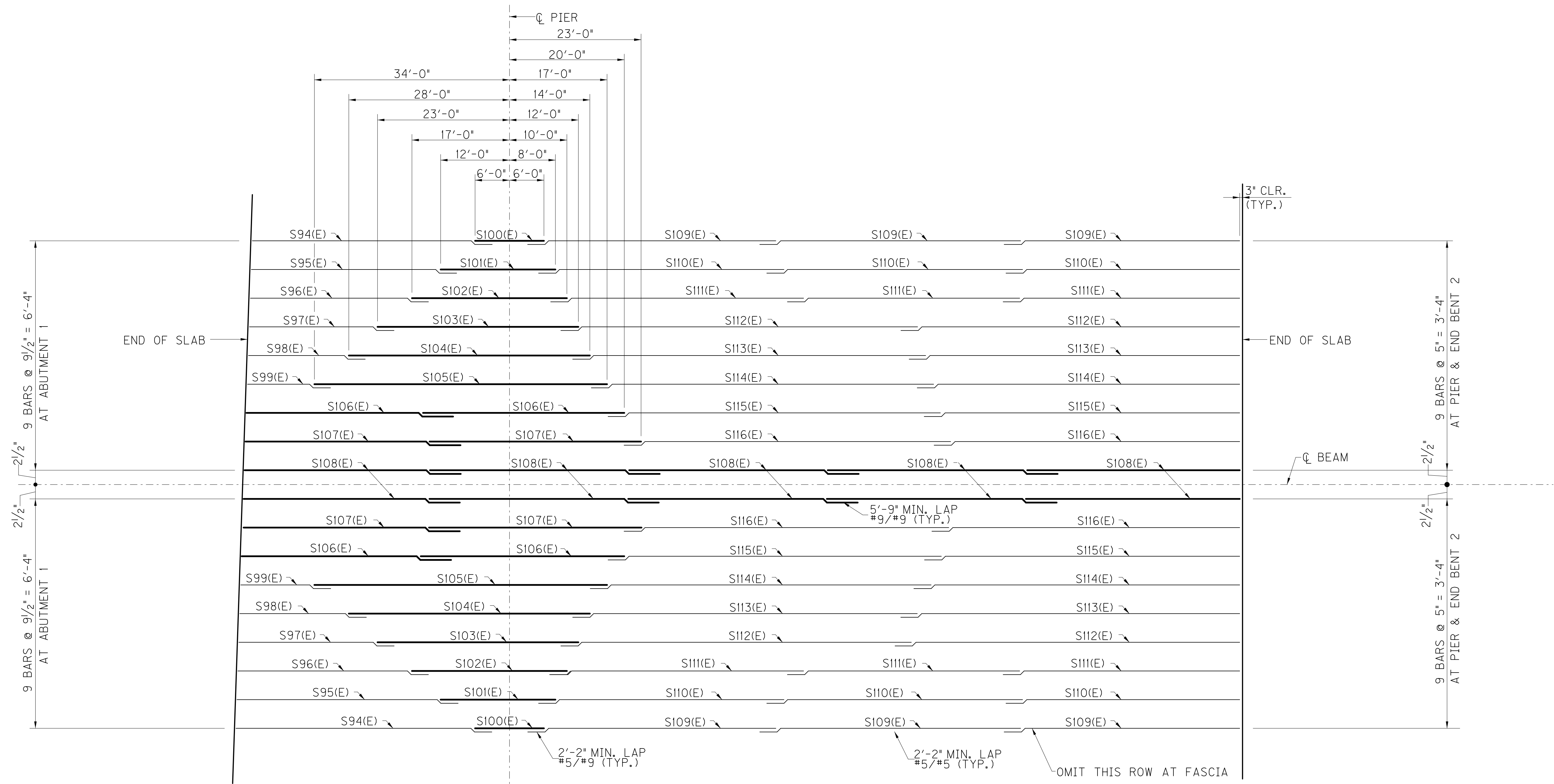
SECTION C-C

REVISION 09-07-2011

REVISION	DATE

DATE: 09/07
 DESIGNED BY: WTB
 CHECKED BY: RSC
 DETAILED BY: CBH
 WTB

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS	
COUNTY LETCHER	
ROUTE CR 1376	CROSSING NORTH FORK KENTUCKY RIVER
SUPERSTRUCTURE	
ITEM NUMBER 12-1081.00	PREPARED BY WMB INC., ENGINEERS
SHEET NO. S23	DRAWING NO. 26019



SCHEMATIC DIAGRAM OF NEGATIVE REINFORCEMENT

REVISI REVISED 09-07-2011

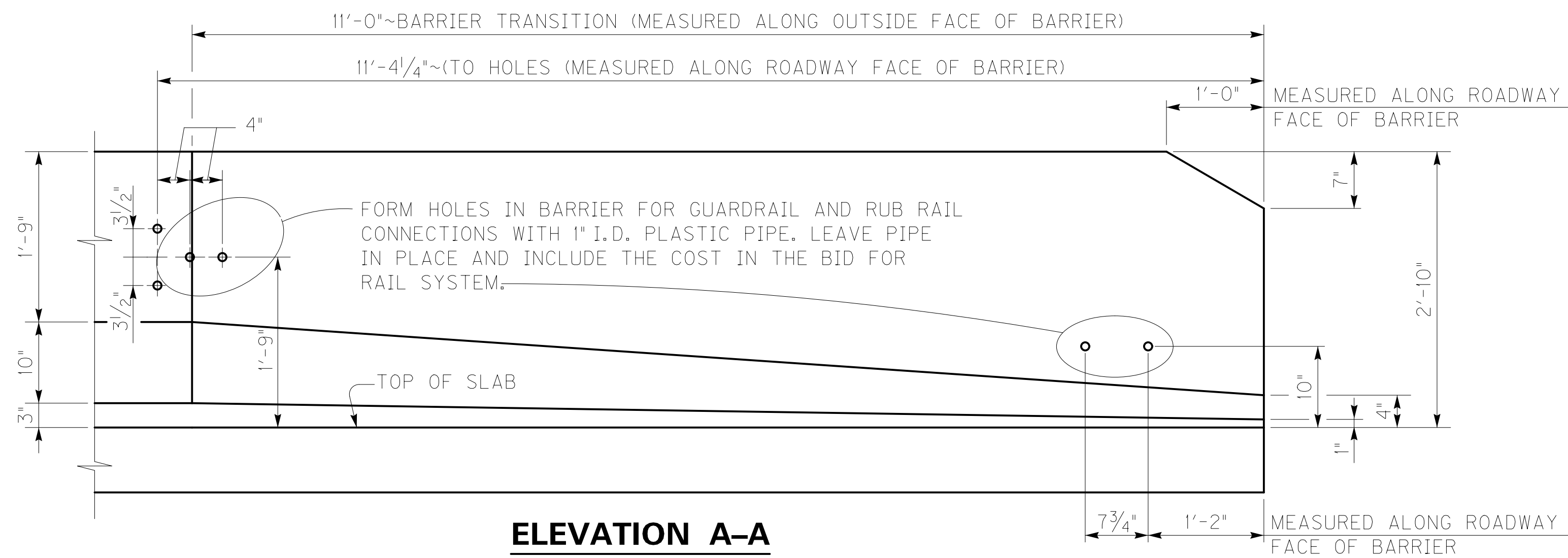
REVISION		DATE
DATE: 09-07	CHECKED BY	
DESIGNED BY: WTB	RSC	
DETAILED BY: CBH	WTB	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
LETCHER		
ROUTE CR 1376	CROSSING NORTH FORK KENTUCKY RIVER	
SUPERSTRUCTURE		
ITEM NUMBER	PREPARED BY	SHEET NO.
12-1081.00	WMB INC., ENGINEERS	S24
		DRAWING NO.
		26019

SHEET LOCATION:

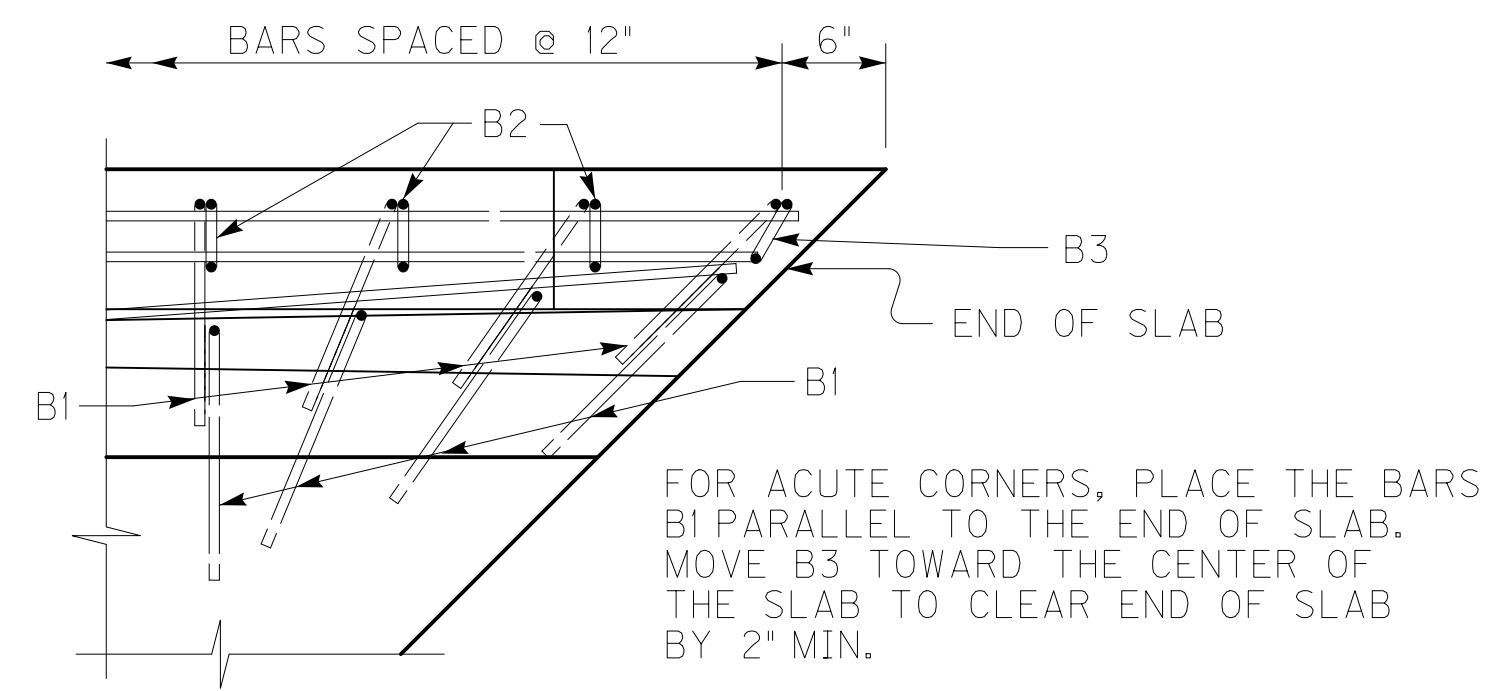
FILE NAME: 25-S56

DATE: September 07, 2011 USERNAME: KTA_USER

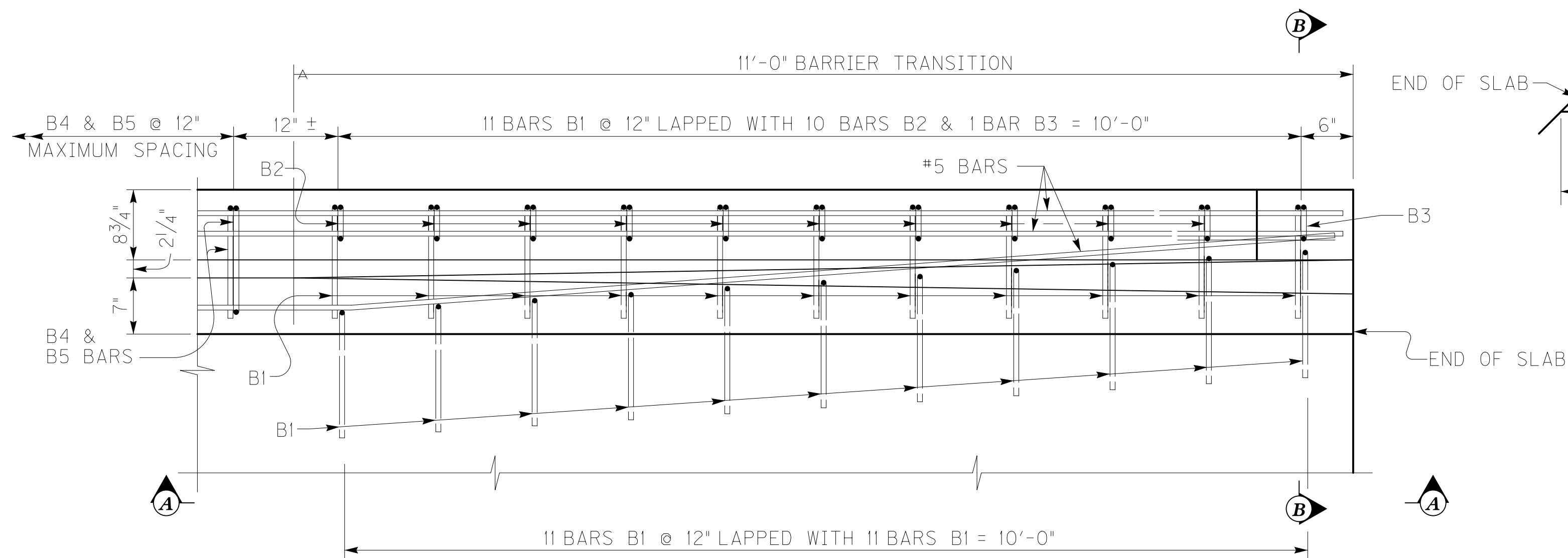
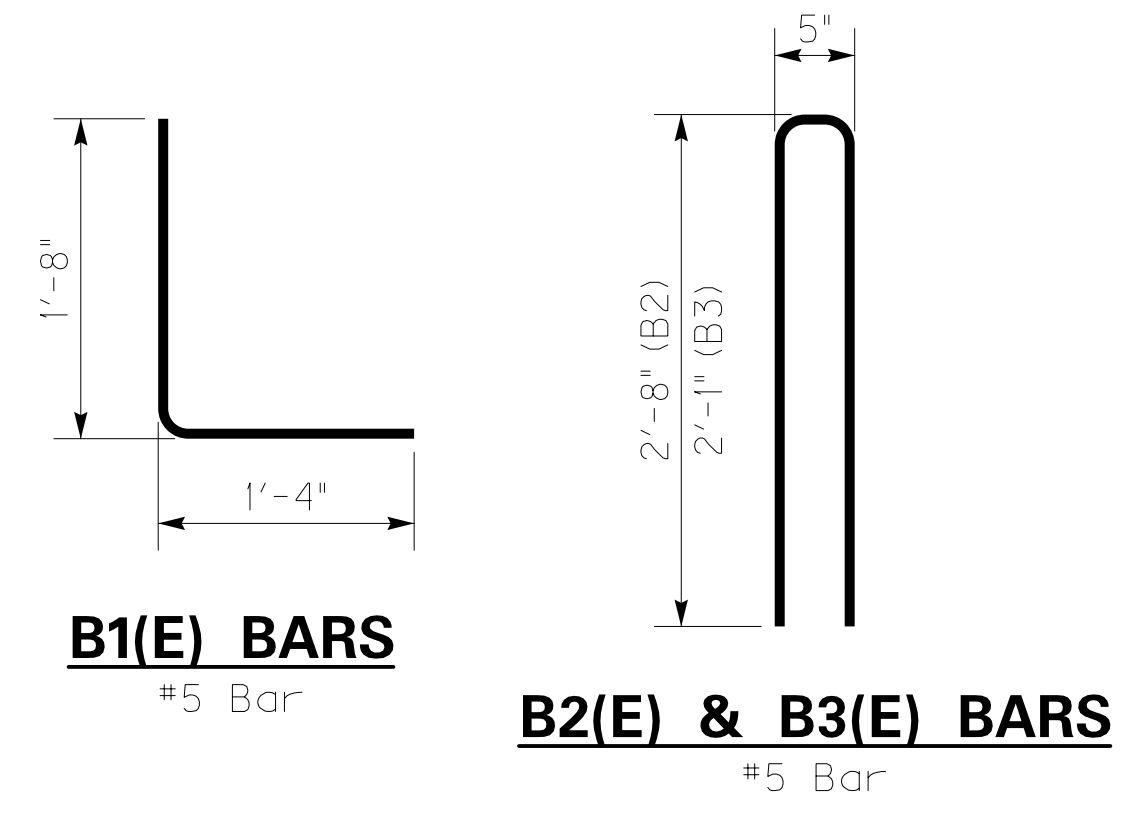
E-SHEET NAME:



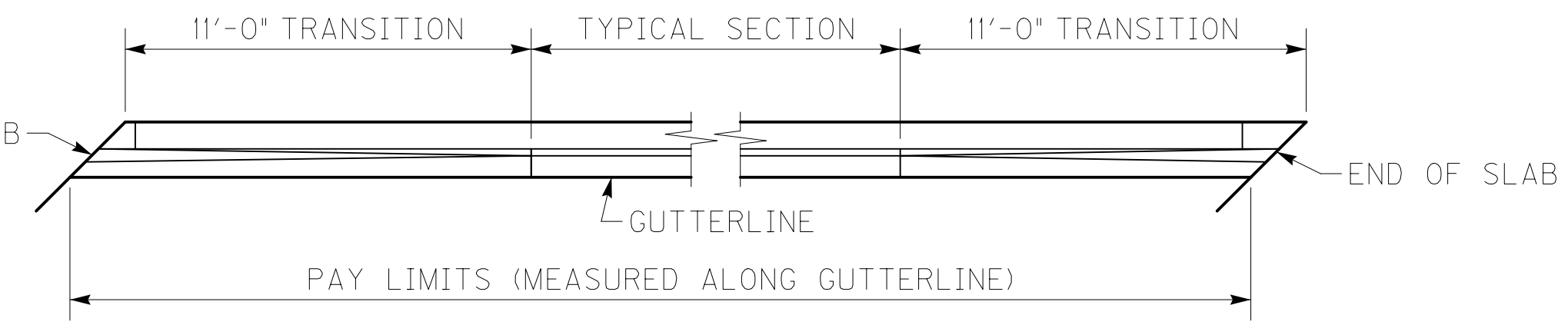
ELEVATION A-A



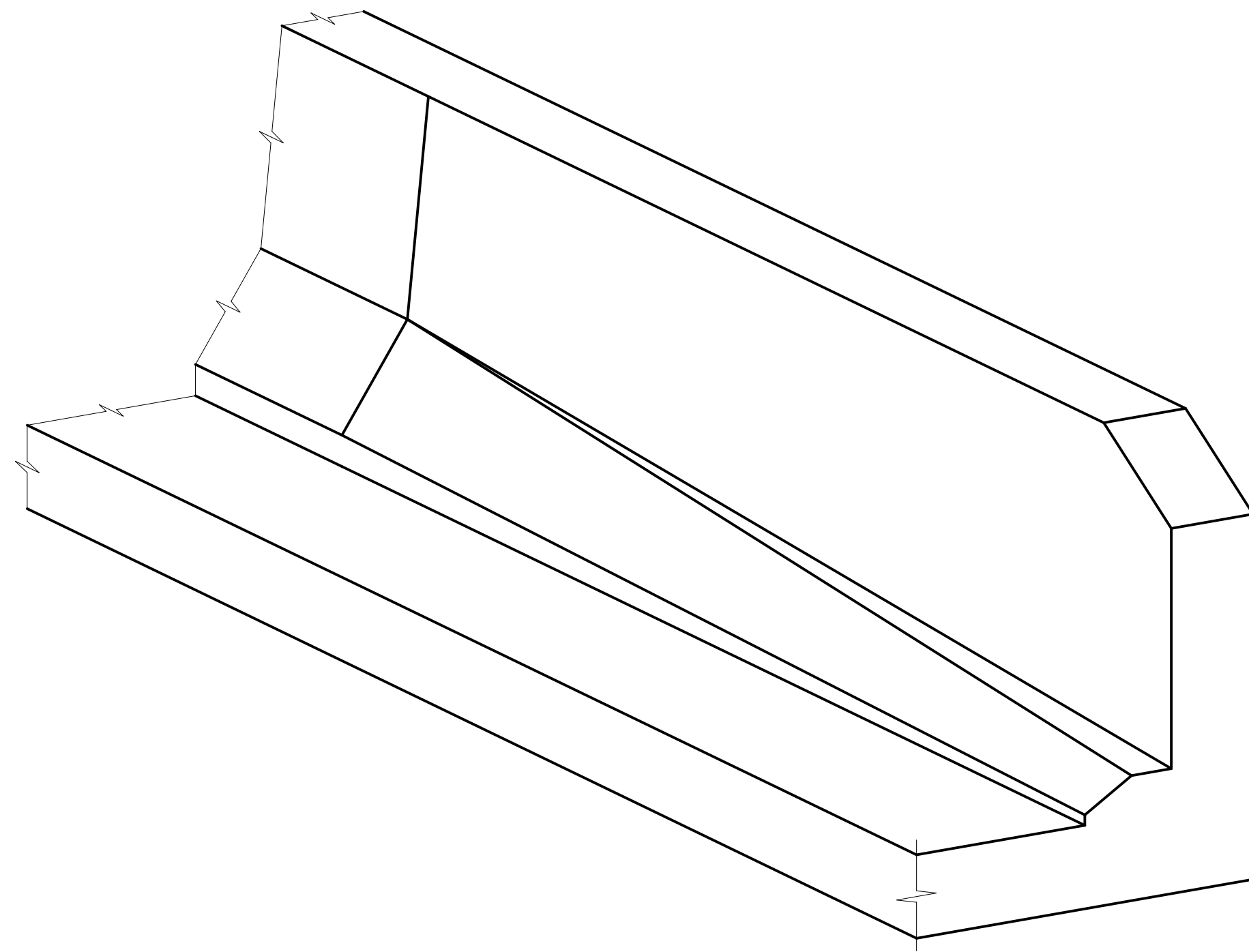
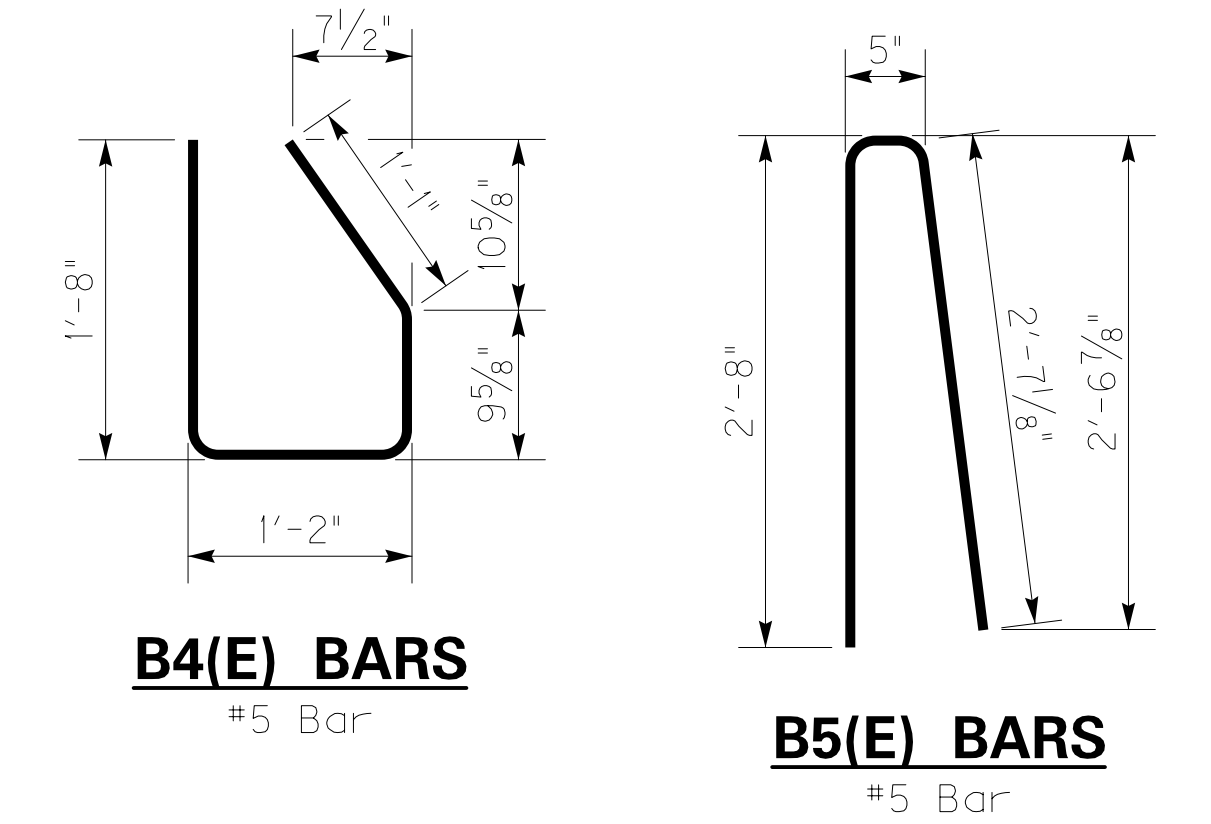
PLAN OF SKEWED END



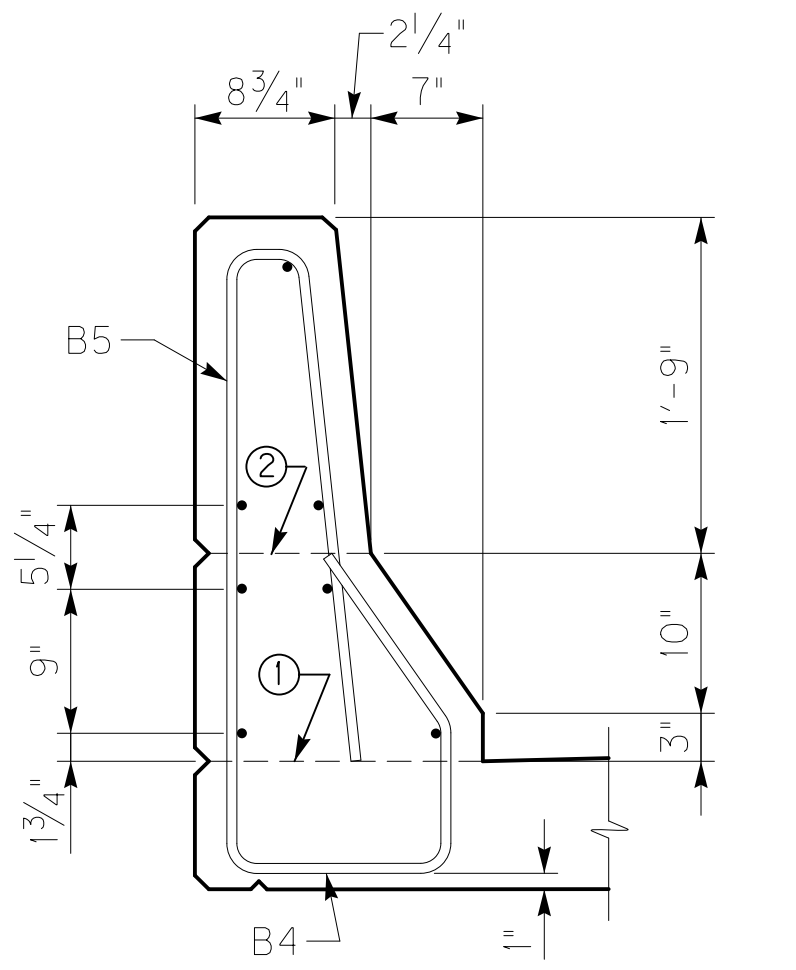
PLAN OF BARRIER TRANSITION



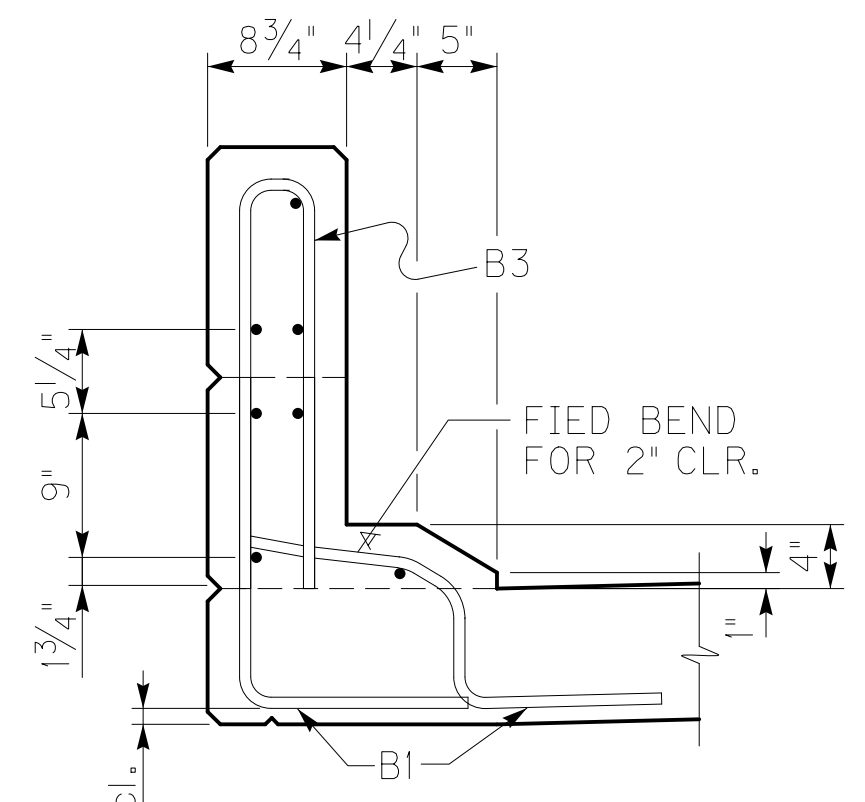
PLAN OF BARRIER



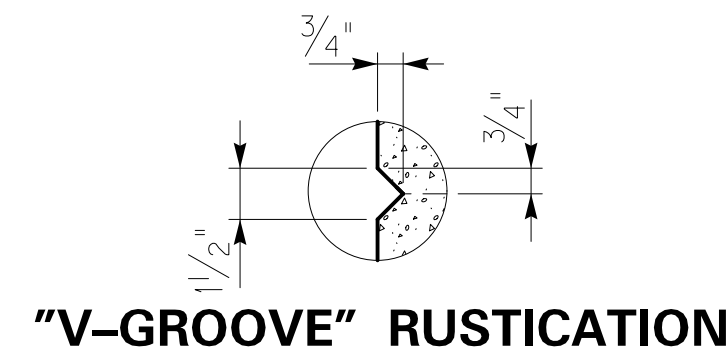
OBLIQUE VIEW



TYPICAL BARRIER SECTION



SECTION B-B



"V-GROOVE" RUSTICATION

- ① MANDATORY ROUGHENED CONSTRUCTION JOINT. CONCRETE ABOVE THIS JOINT IS TO BE PLACED AFTER SLAB HAS BEEN PROPERLY CURED AND INCLUDED IN THE BID FOR RAIL SYSTEM, TYPE III.
- ② PERMISSIBLE CONSTRUCTION JOINT. "V" GROOVE" RUSTICATION JOINT IS REQUIRED IF CONSTRUCTION JOINT IS USED.

General Notes

MEASUREMENT: THE LINEAR FOOT BID FOR THE BARRIER IS MEASURED ALONG THE ROADWAY GUTTERLINE. INCLUDE ALL REINFORCEMENT SHOWN AND ALL CONCRETE ABOVE THE TOP OF SLAB IN THE BID ITEM.

REINFORCEMENT: ALL REINFORCEMENT SHOWN ON THIS SHEET IS TO BE EPOXY COATED. USE STIRRUP BEND DIAMETERS FOR ALL BENT BARS. STRAIGHT REINFORCEMENT IS TO BE SIZE #5 AND LAPPED 2'-2" WHEN NECESSARY.

REVISION	DATE

Commonwealth of Kentucky	
DEPARTMENT OF HIGHWAYS	
COUNTY	
LETCHER	
ROUTE	CROSSING
CR 1376	NORTH FORK KENTUCKY RIVER
RAIL SYSTEM TYPE 3 DETAILS	
PREPARED BY	SHEET NO.
WMB INC., ENGINEERS	S25
ITEM NUMBER	DRAWING NO.
12-1081.00	26019

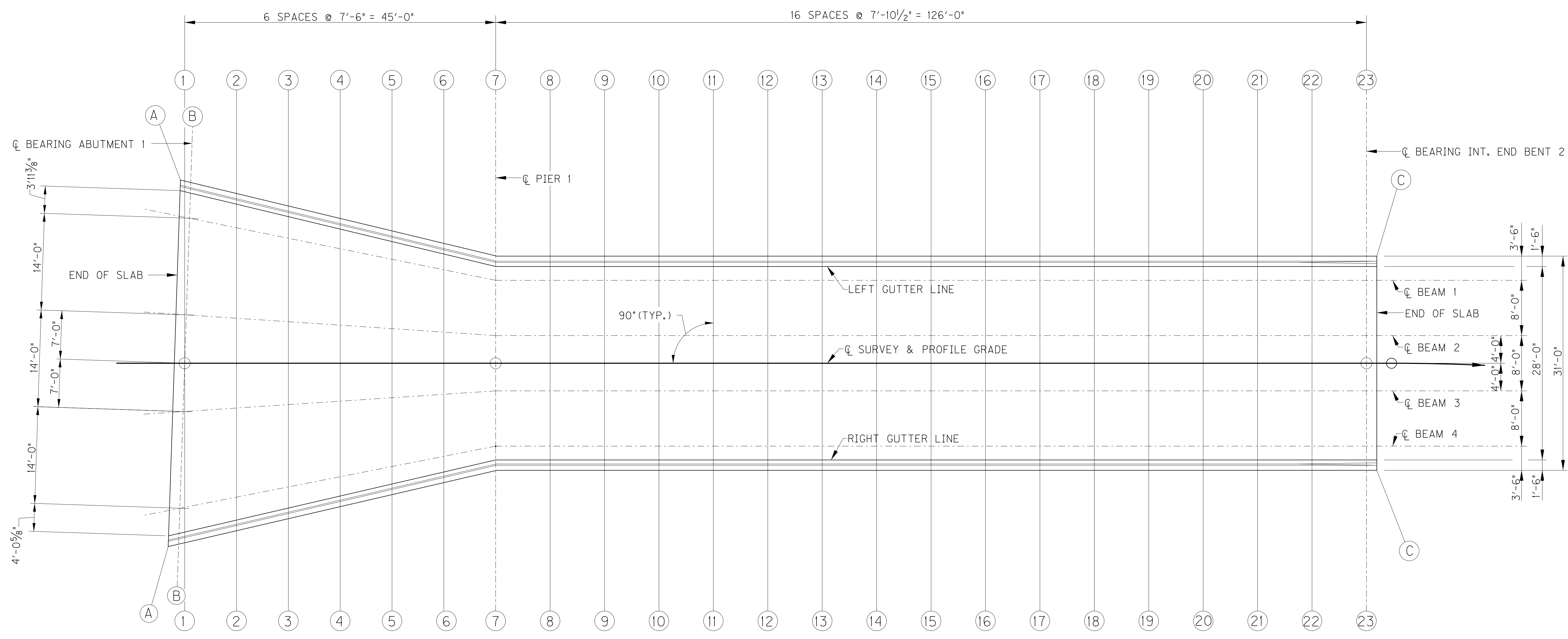
1 REVISED 09-07-2011

SHEET LOCATION:

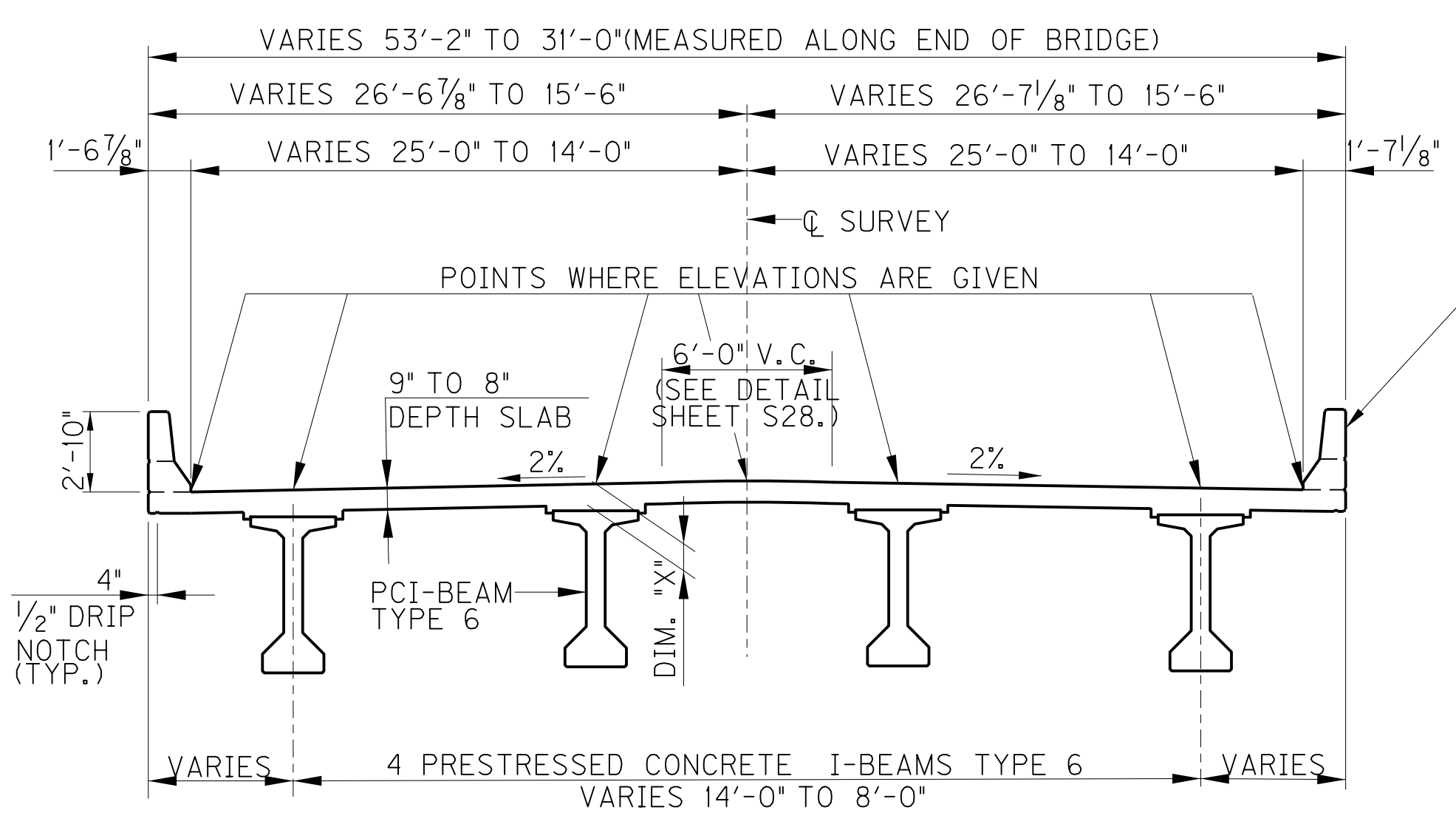
FILE NAME: 27.CEI

DATE: September 07, 2011 USERNAME: KTA_USER

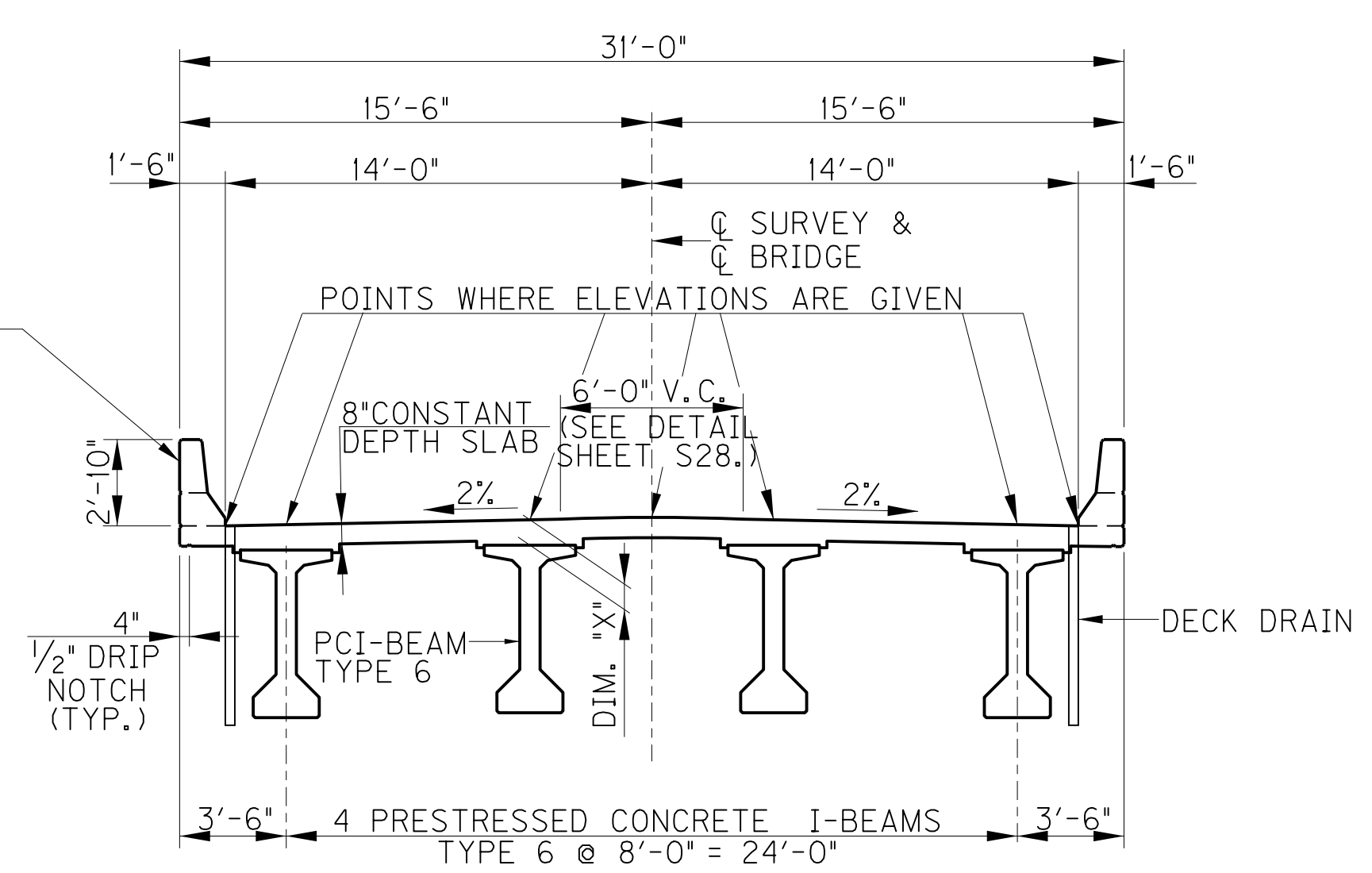
E-SHEET NAME:



PLAN



TYPICAL SECTION (SPAN 1 LOOKING AHEAD)



TYPICAL SECTION (SPAN 2)

REVISOR 09-07-2011

REVISION	DATE

DATE: 09/07
 DESIGNED BY: RSC
 CHECKED BY: CH
 DETAILED BY: CH
 WTB

Commonwealth of Kentucky
 DEPARTMENT OF HIGHWAYS
 COUNTY
LETCHER
 ROUTE CROSSING
CR 1376 NORTH FORK KENTUCKY RIVER

ITEM NUMBER	12-1081.00
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PREPARED BY
WMB INC., ENGINEERS

SHEET NO.
S27
 DRAWING NO.
26019

CONSTRUCTION ELEVATIONS

SHEET LOCATION:

LOCATION	LEFT GUTTER LINE	BEAM 1			BEAM 2			@ SURVEY & PROFILE GRADE	BEAM 3			BEAM 4			RIGHT GUTTER LINE
		CONSTR. ELEV.	TOP OF BEAM	DIM. "X"	CONSTR. ELEV.	TOP OF BEAM	DIM. "X"		CONSTR. ELEV.	TOP OF BEAM	DIM. "X"	CONSTR. ELEV.	TOP OF BEAM	DIM. "X"	
A-A	970.908	970.981			971.256			971.364	971.248			970.957			970.881
B-B	970.939	971.010			971.282			971.387	971.282			970.907			970.912
C-C	966.717	966.757			966.917			966.967	966.917			966.757			966.717
1 - 1	970.922	970.996			971.278			971.388	971.278			971.001			970.390
2 - 2	971.081	971.149			971.411			971.512	971.412			971.154			971.087
3 - 3	971.239	971.302			971.543			971.633	971.543			971.305			971.244
4 - 4	971.396	971.453			971.674			971.754	971.674			971.455			971.400
5 - 5	971.543	971.595			971.795			971.865	971.795			971.596			971.546
6 - 6	971.632	971.677			971.858			971.918	971.858			971.678			971.633
7 - 7	971.652	971.692			971.852			971.902	971.852			971.692			971.652
8 - 8	971.614	971.654			971.814			971.864	971.814			971.654			971.614
9 - 9	971.496	971.536			971.696			971.746	971.696			971.536			971.496
10 - 10	971.299	971.339			971.499			971.549	971.499			971.339			971.299
11 - 11	971.021	971.061			971.221			971.271	971.221			971.061			971.021
12 - 12	970.702	970.742			970.902			970.952	970.902			971.742			970.702
13 - 13	970.377	970.417			970.577			970.627	970.577			971.417			970.377
14 - 14	970.046	970.086			970.246			970.296	970.246			970.086			970.046
15 - 15	969.708	969.748			969.908			969.958	969.908			969.748			969.708
16 - 16	969.364	969.404			969.564			969.614	969.564			969.404			969.364
17 - 17	969.014	969.054			969.214			969.264	969.214			969.054			969.014
18 - 18	968.658	968.698			968.858			968.908	968.858			968.698			968.658
19 - 19	969.295	968.335			968.495			968.545	968.495			968.335			968.295
20 - 20	967.926	967.966			968.126			968.176	968.126			967.966			967.926
21 - 21	967.551	967.591			967.751			967.801	967.751			967.591			967.551
22 - 22	967.169	967.209			967.369			967.419	967.369			967.209			967.169
23 - 23	966.782	967.822			966.982			967.032	967.982			966.822			966.782

FILE NAME: 28.CE2

DATE: September 07, 2011 USERNAME: KTA_USER

E-SHEET NAME:

NOTES FOR ELEVATIONS TAKEN ON PCI- BEAMS

TAKE ELEVATIONS ON TOP OF BEAM AT POINTS INDICATED BY THE GRID LAYOUT. THE BEAM ELEVATIONS ARE TO BE READ TO THREE DECIMALS, AND ENTERED IN THE TABLES UNDER "TOP OF GIRDER ELEVATIONS".

COMPUTE DIMENSION "X" AS FOLLOWS: "CONSTRUCTION ELEVATION" MINUS "TOP OF BEAM ELEVATION" EQUALS DIMENSION "X". CONSTRUCTION ELEVATIONS INCLUDE CAMBER DUE TO WEIGHT OF CONCRETE SLAB, BARRIER FORMS AND FUTURE SURFACING. MEASURING OF DIMENSION "X" GIVES THE FINAL CHECK ON GIRDER TOLERANCES FOR CAMBER, GIRDER DAMAGE AND ERRORS IN ERECTION THAT PRODUCE REVERSE CAMBERS, SAGS AND UNSIGHTLY FASICA GIRDERS.

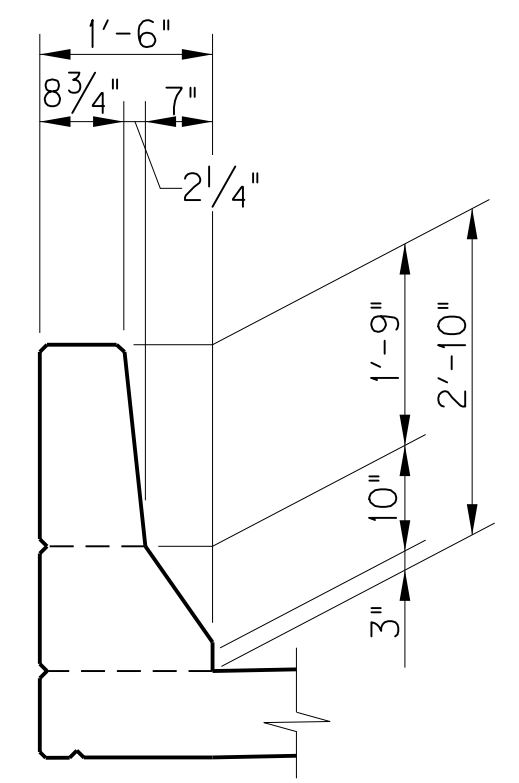
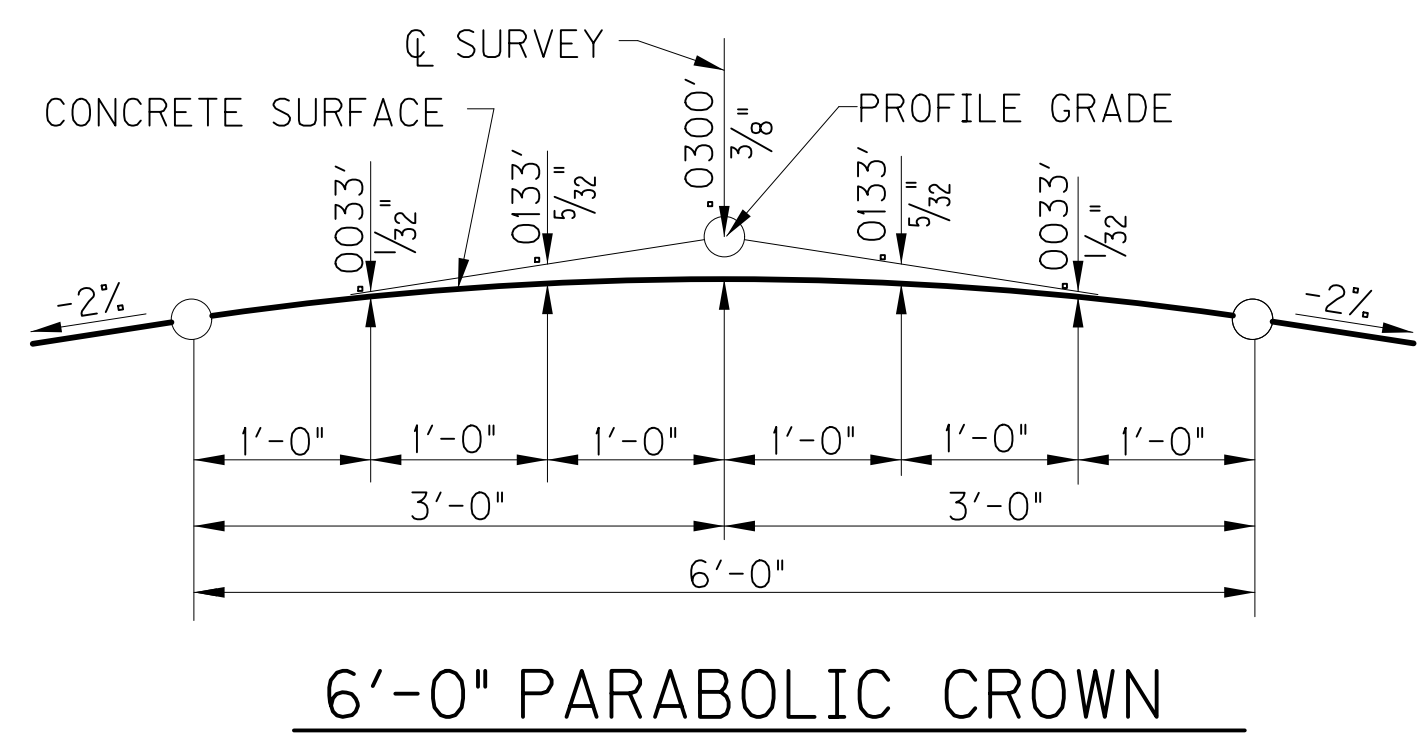
FOR SETTING TEMPLATES, MEASURE DIMENSION "X" ABOVE TOP OF BEAM FOR TOP OF TEMPLATE. DO NOT SET TEMPLATE BY ELEVATIONS.

TEMPORARY SUPPORTS OR SHORING WILL NOT BE PERMITTED UNDER THE BEAMS WHEN POURING THE CONCRETE FLOOR SLAB OR WHEN TAKING "TOP OF BEAM" ELEVATIONS.

CONSTRUCT BARRIER TO ROADWAY GRADE. DO NOT ADD CAMBER TO BARRIER.

NOTE TO RESIDENT

THE "MAXIMUM ALLOWABLE CAMBER" SHOWN ON THE BEAM SHEET IS THE AMOUNT OF CAMBER, MEASURED ALONG THE BEAM PRIOR TO CASTING THE DECK, ABOVE WHICH THE BEAM WILL BEGIN TO ENCROACH INTO THE DECK.



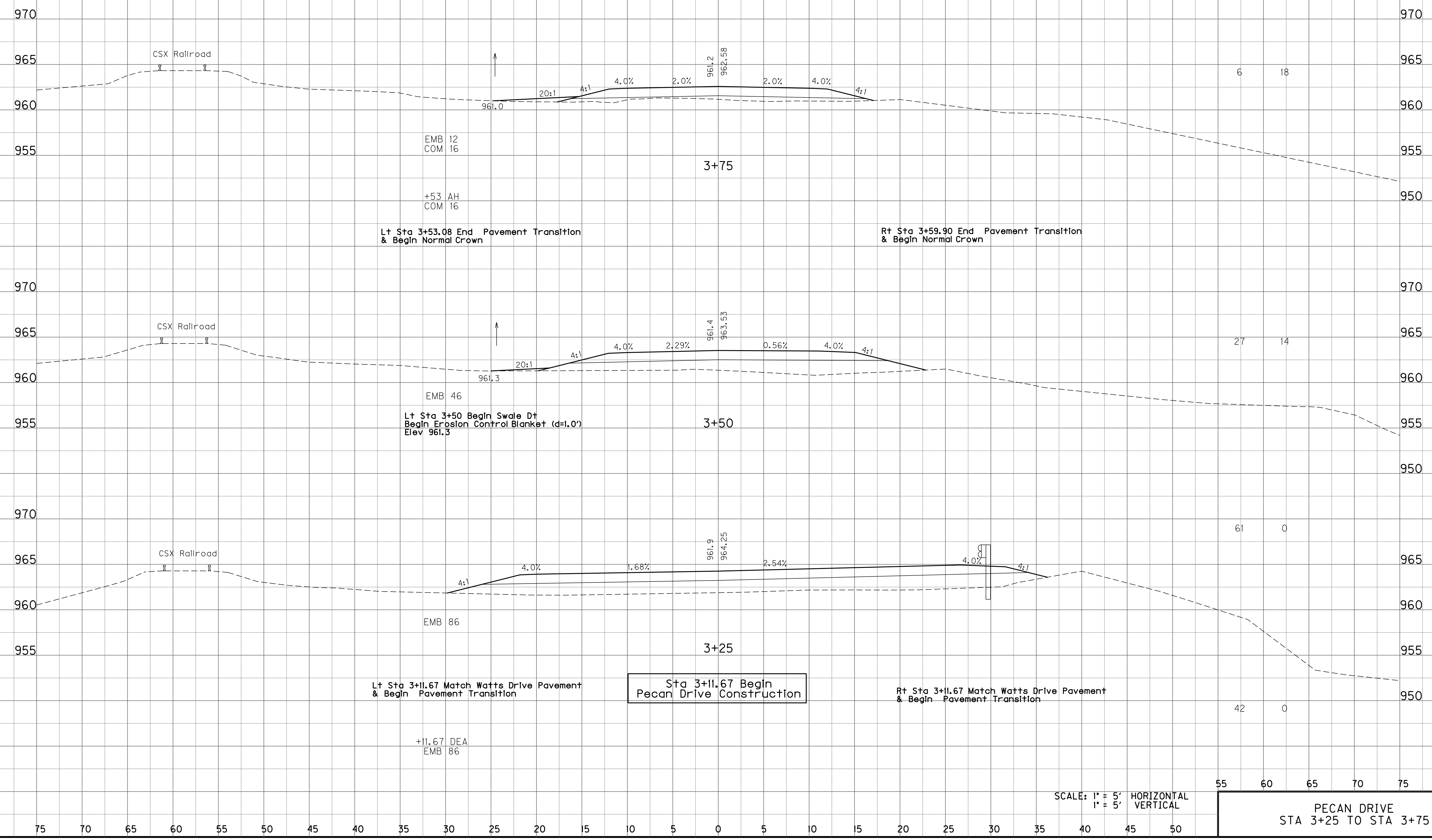
BARRIER DETAIL

REVISION 09-07-2011

REVISION		DATE
DATE: 09/07	CHECKED BY	
DESIGNED BY: RSC	CH	
DETAILED BY: CH	WTB	
Commonwealth of Kentucky		
DEPARTMENT OF HIGHWAYS		
COUNTY		
LETCHER		
ROUTE	CROSSING	
CR 1376	NORTH FORK KENTUCKY RIVER	
CONSTRUCTION ELEVATIONS		
PREPARED BY		SHEET NO.
WMB INC., ENGINEERS		S28
ITEM NUMBER		DRAWING NO.
12-1081.00		26019

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

EMB COM



55 60 65 70 75

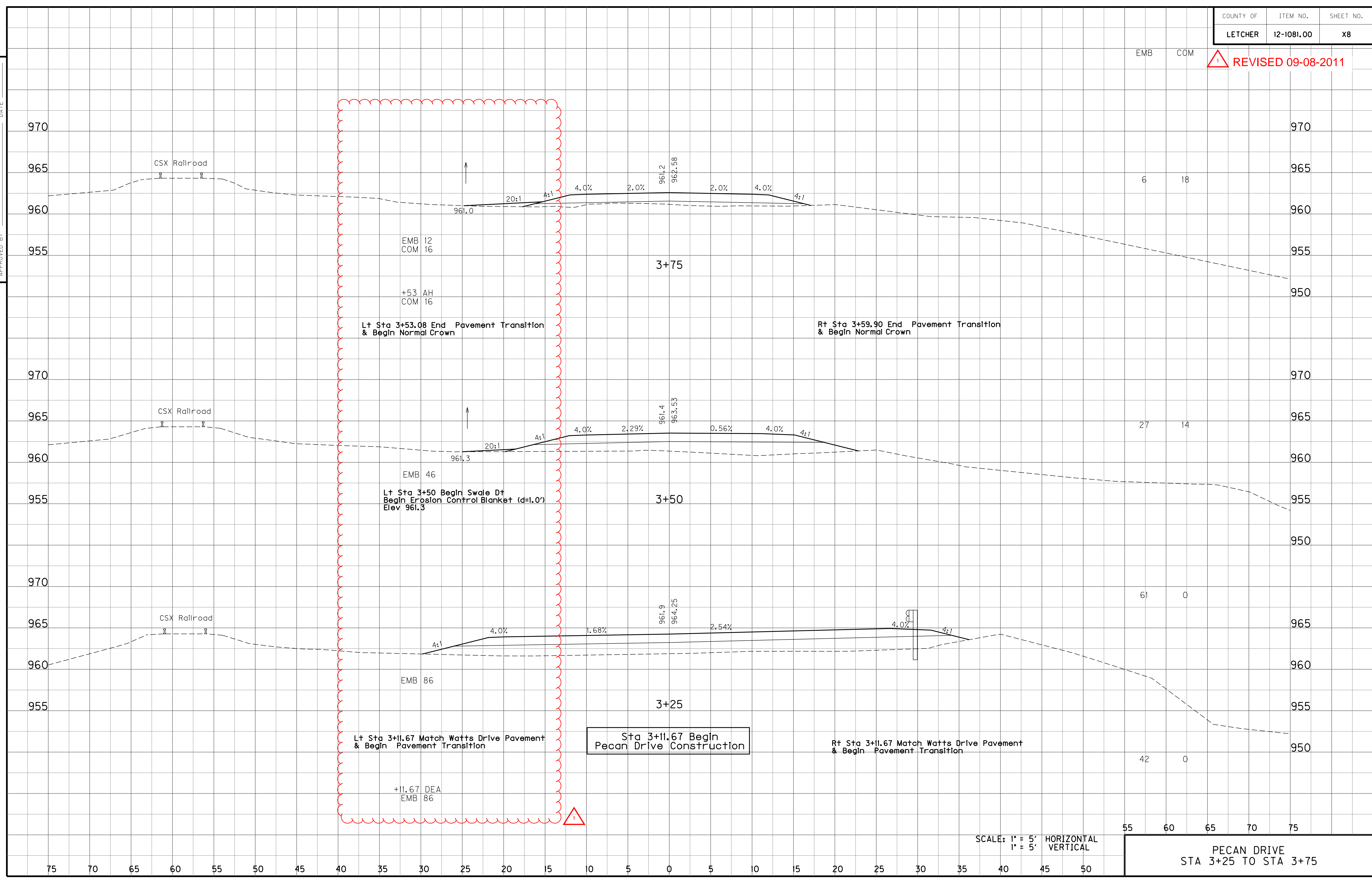
SCALE: 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

PECAN DRIVE
 STA 3+25 TO STA 3+75

USER: tvonbehren, WMB Inc.
 DATE: August 05, 2011
 FILE NAME: Cross Sections.dgn
 E-SHEET NAME:

EMB COM △ REVISED 09-08-2011

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____



USER: tvonbehren, WMB Inc.
 DATE: August 05, 2011
 FILE NAME: Cross Sections.dgn
 E-SHEET NAME:

SCALE: 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

55 60 65 70 75
 STA 3+25 TO STA 3+75
 PECAN DRIVE

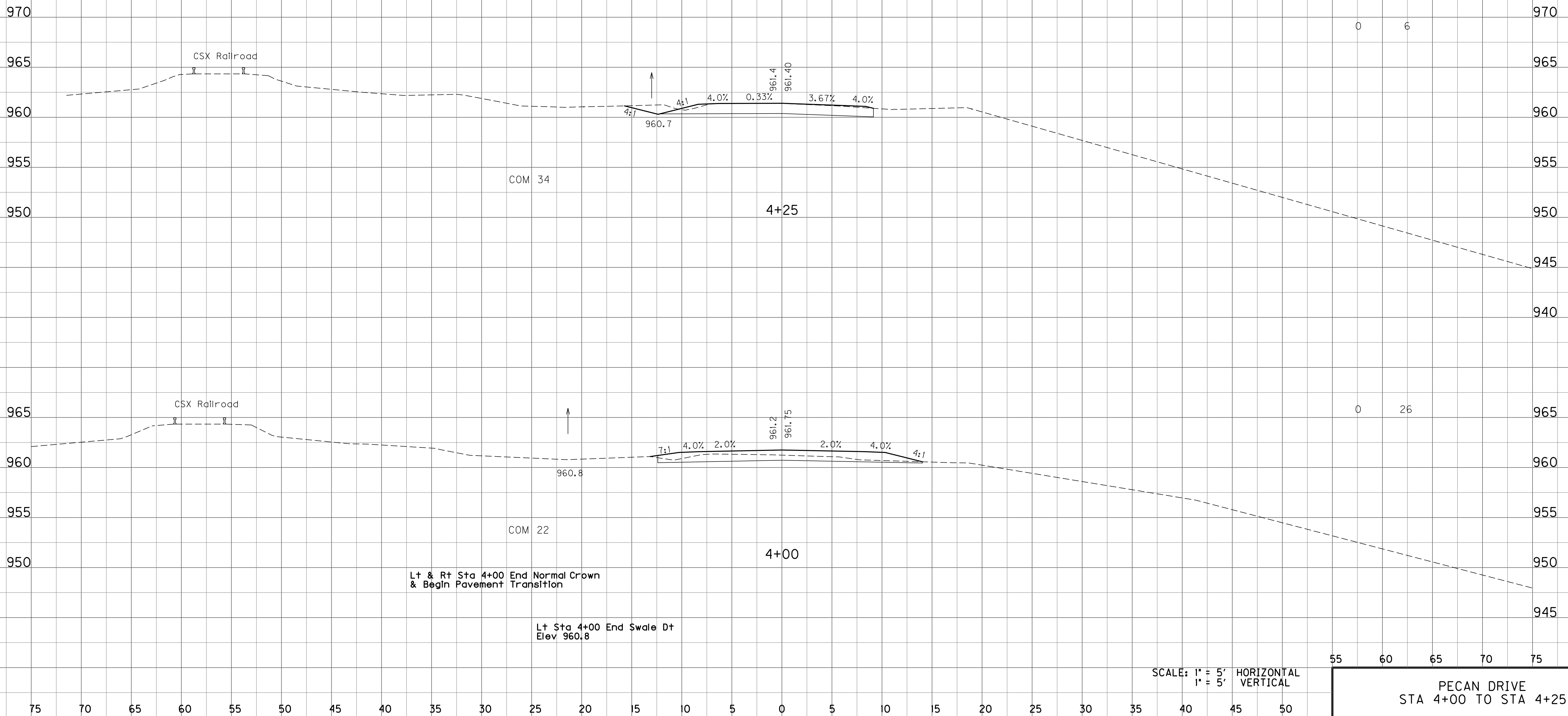
EMB	COM
TOTALS PECAN DRIVE	
136	64

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

Sta 4+30.00 End
 Pecan Drive Construction

+30 DEA
 COM 34
 Lt & Rt Sta 4+30 End Pavement Transition
 & Match Existing Surface

Lt Sta 4+30 End Erosion Control Blanket



55 60 65 70 75

SCALE: 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

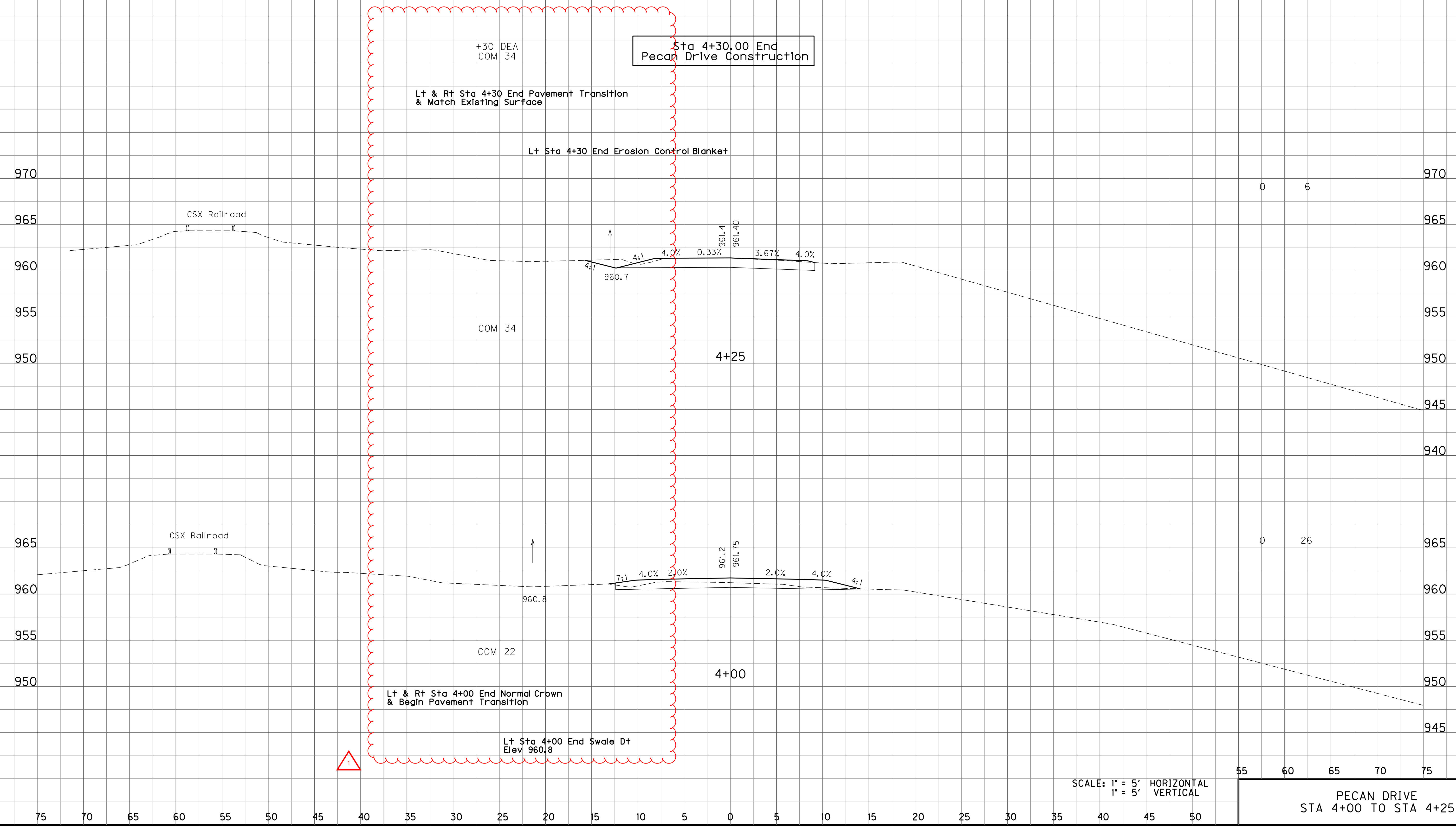
PECAN DRIVE
 STA 4+00 TO STA 4+25

EMB COM

TOTALS PECAN DRIVE	
136	64

REVIS  **09-08-2011**

PREPARED BY _____ DATE _____
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55 60 65 70 75

PECAN DRIVE
 STA 4+00 TO STA 4+25

CONTRACT ID: 111038
COUNTY: LETCHER
PROPOSAL: BRZ 1203(308)

PAGE: 1
LETTING: 09/23/11
CALL NO: 102

LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
SECTION 0001 ROADWAY						
0010	00001	DGA BASE	493.000	TON		
0020	00020	TRAFFIC BOUND BASE	106.000	TON		
0030	00078	CRUSHED AGGREGATE SIZE NO 2	179.000	TON		
0040	00100	ASPHALT SEAL AGGREGATE	4.000	TON		
0050	00221	CL2 ASPH BASE 0.75D PG64-22	377.000	TON		
0060	00291	EMULSIFIED ASPHALT RS-2	0.400	TON		
0070	00301	CL2 ASPH SURF 0.38D PG64-22	180.000	TON		
0071	00522	STORM SEWER PIPE-18 IN (ADDED: 9-12-11)	57.000	LF		
0080	01433	SLOPED BOX OUTLET TYPE 1-18 IN	1.000	EACH		
0090	01480	CURB BOX INLET TYPE B	2.000	EACH		
0100	01825	ISLAND CURB AND GUTTER	85.000	LF		
0110	01982	DELINEATOR FOR GUARDRAIL-WHITE	30.000	EACH		
0120	01984	DELINEATOR FOR BARRIER-WHITE	13.000	EACH		
0130	02014	BARRICADE-TYPE III	2.000	EACH		
0140	02159	TEMP DITCH	296.000	LF		
0150	02230	EMBANKMENT IN PLACE	1,209.000	CUYD		
0160	02242	WATER	100.000	MGAL		
0161	02351	GUARDRAIL-STEEL W BEAM-S FACE (ADDED: 9-12-11)	412.500	LF		
0162	02360	GUARDRAIL TERMINAL SECTION NO 1 (ADDED: 9-12-11)	5.000	EACH		
0163	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A (ADDED: 9-12-11)	4.000	EACH		

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PROPOSAL: BRZ 1203(308)

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0164	02369	GUARDRAIL END TREATMENT TYPE 2A (ADDED: 9-12-11)	1.000	EACH		
0165	02381	REMOVE GUARDRAIL (ADDED: 9-12-11)	337.500	LF		
0166	02397	TEMP GUARDRAIL (ADDED: 9-12-11)	275.000	LF		
0170	02429	RIGHT-OF-WAY MONUMENT TYPE 1	7.000	EACH		
0180	02432	WITNESS POST	7.000	EACH		
0190	02483	CHANNEL LINING CLASS II	46.000	TON		
0200	02545	CLEARING AND GRUBBING 1.7 ACRES	(1.00)	LS		
0210	02562	SIGNS	345.000	SQFT		
0220	02600	FABRIC GEOTEXTILE TY IV FOR PIPE	99.000	SQYD	2.00	198.00
0230	02650	MAINTAIN & CONTROL TRAFFIC	(1.00)	LS		
0240	02651	DIVERSIONS (BY-PASS DETOURS) KY 7	(1.00)	LS		
0250	02651	DIVERSIONS (BY-PASS DETOURS) WATTS DRIVE	(1.00)	LS		
0260	02676	MOBILIZATION FOR MILL & TEXT	(1.00)	LS		
0270	02677	ASPHALT PAVE MILLING & TEXTURING	90.000	TON		
0280	02701	TEMP SILT FENCE	296.000	LF		
0290	02703	SILT TRAP TYPE A	4.000	EACH		
0300	02704	SILT TRAP TYPE B	4.000	EACH		
0310	02705	SILT TRAP TYPE C	3.000	EACH		
0320	02706	CLEAN SILT TRAP TYPE A	12.000	EACH		
0330	02707	CLEAN SILT TRAP TYPE B	12.000	EACH		
0340	02708	CLEAN SILT TRAP TYPE C	9.000	EACH		

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COUNTY: LETCHER
PROPOSAL: BRZ 1203(308)

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0350	02709	CLEAN TEMP SILT FENCE	296.000	LF		
0360	02726	STAKING	(1.00)	LS		
0370	02731	REMOVE STRUCTURE	(1.00)	LS		
0380	02894	CRASH CUSHION TYPE VI-T	1.000	EACH		
0390	03171	CONCRETE BARRIER WALL TYPE 9T	260.000	LF		
0400	03262	CLEAN PIPE STRUCTURE	1.000	EACH		
0410	05950	EROSION CONTROL BLANKET	1,758.000	SQYD		
0420	05952	TEMP MULCH	8,615.000	SQYD		
0430	05953	TEMP SEEDING AND PROTECTION	4,840.000	SQYD		
0440	05966	TOPDRESSING FERTILIZER	2.000	TON		
0450	05985	SEEDING AND PROTECTION	4,840.000	SQYD		
0460	06510	PAVE STRIPING-TEMP PAINT-4 IN	4,000.000	LF		
0470	06514	PAVE STRIPING-PERM PAINT-4 IN	4,200.000	LF		
0480	06549	PAVE STRIPING-TEMP REM TAPE-B	500.000	LF		
0490	06550	PAVE STRIPING-TEMP REM TAPE-W	1,000.000	LF		
0500	06551	PAVE STRIPING-TEMP REM TAPE-Y	1,000.000	LF		
0510	06555	PAVE STRIPING-DUR TY 1-4 IN Y	300.000	LF		
0520	06568	PAVE MARKING-THERMO STOP BAR-24IN	18.000	LF		
0530	06588	PAVEMENT MARKER TY IVA-BY TEMP	40.000	EACH		
0540	20099ES842	PAVE MARK TEMP PAINT STOP BAR	24.000	LF		
0550	20430ED	SAW CUT	410.000	LF		

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LETTING: 09/23/11
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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0560	23131ER701	PIPELINE VIDEO INSPECTION	29.000	LF		
SECTION 0002 BRIDGE						
0570	01000	PERFORATED PIPE-4 IN	200.000	LF		
0580	01020	PERF PIPE HEADWALL TY 1-4 IN	2.000	EACH		
0590	02231	STRUCTURE GRANULAR BACKFILL	248.000	CUYD		
0600	02555	CONCRETE-CLASS B	150.000	CUYD		
0610	02596	FABRIC-GEOTEXTILE TYPE I	464.000	SQYD		
0620	02599	FABRIC-GEOTEXTILE TYPE IV	368.000	SQYD		
0630	02998	MASONRY COATING	754.000	SQYD		
0640	03299	ARMORED EDGE FOR CONCRETE	78.000	LF		
0650	08001	STRUCTURE EXCAVATION-COMMON	420.000	CUYD		
0660	08002	STRUCTURE EXCAV-SOLID ROCK	580.000	CUYD		
0670	08019	CYCLOPEAN STONE RIP RAP	927.000	TON		
0680	08033	TEST PILES	25.000	LF		
0690	08046	PILES-STEEL HP12X53	198.000	LF		
0700	08094	PILE POINTS-12 IN	10.000	EACH		
0710	08100	CONCRETE-CLASS A	301.500	CUYD		
0720	08104	CONCRETE-CLASS AA	235.400	CUYD		
0730	08150	STEEL REINFORCEMENT	38,880.000	LB		
0740	08151	STEEL REINFORCEMENT-EPOXY COATED	63,634.000	LB		
0750	08160	STRUCTURAL STEEL 700 LBS.	(1.00)	LS		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0760	08635	PRECAST PC I BEAM TYPE 6	688.600	LF		
0770	21532ED	RAIL SYSTEM TYPE III	374.600	LF		
SECTION 0003 DEMOBILIZATION						
0780	02569	DEMOBILIZATION (AT LEAST 1.5%)		LUMP		
		TOTAL BID				