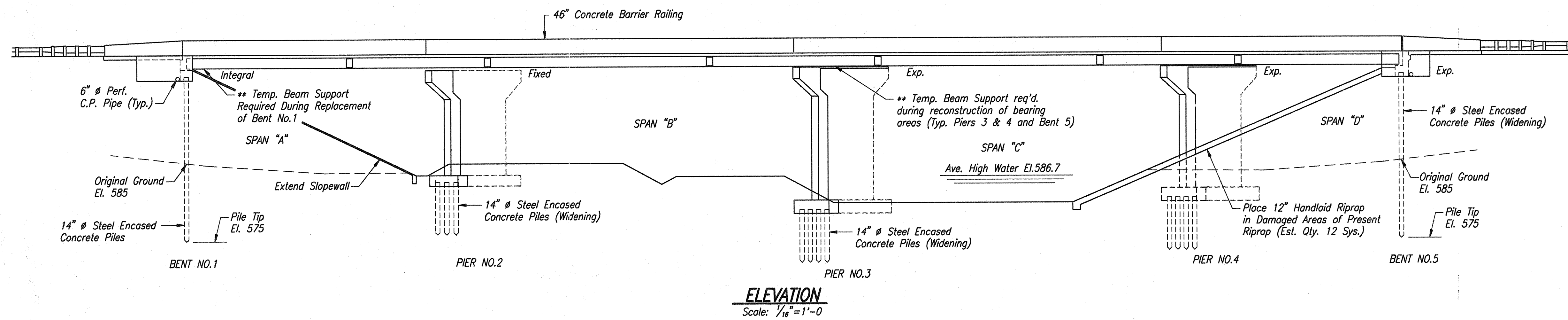


STRUCTURE TO BE BUILT TO A 1450' VERTICAL CURVE

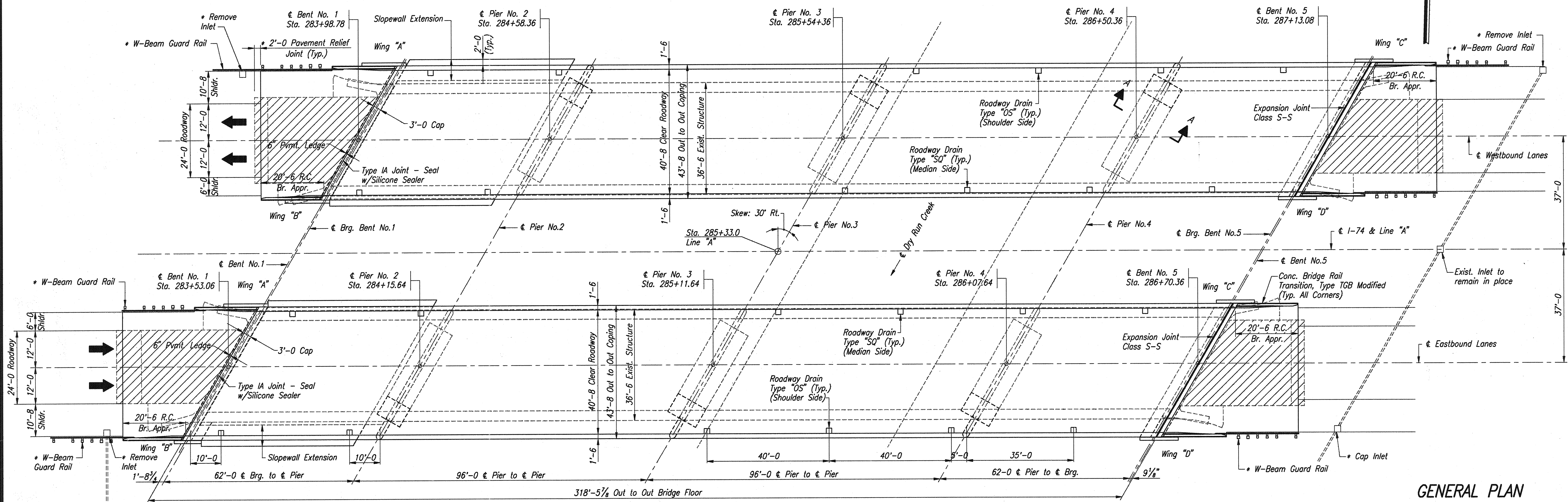
STANDARD DRAWINGS

BRIDGE	ROAD	PURPOSE
BR-1		Concrete Bridge Railing Transition Type TGB
BR-1A		Concrete Bridge Railing Transition Type TGB
C1		Reinforcing Bar Notes
C3		Construction Joint Type "A"
D		Roadway Drains
SS-1A		Structural Exp. Jts. Class SS, Sheet 1
SS-1B		Structural Exp. Jts. Class SS, Sheet 2
CCPJ-1		Longitudinal Joint
CCPJ-4		Transverse Construct Joint
RCBA-1		Reinforced Concrete Bridge Approach
RCBA-2		Reinforced Concrete Bridge Approach
MB2		Slopedwall



LEGEND

Concrete Pavement Removal



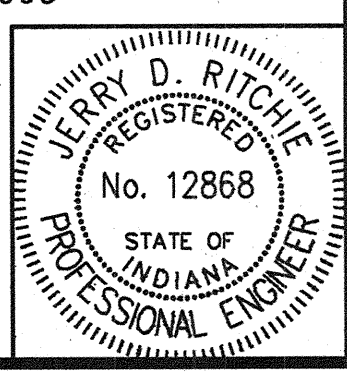
DECK REPLACEMENT & WIDENING
TWIN CONTINUOUS COMPOSITE STEEL BEAM BRIDGES
4-SPANS: 62'-0, 96'-0, 96'-0 AND 62'-0
40'-8 CLEAR ROADWAY, SKEW: 30° RIGHT
I-74 OVER DRY RUN CREEK

INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

SCALE: As Noted
DATE: OCTOBER 17, 1995

Jerry D. Ritchie

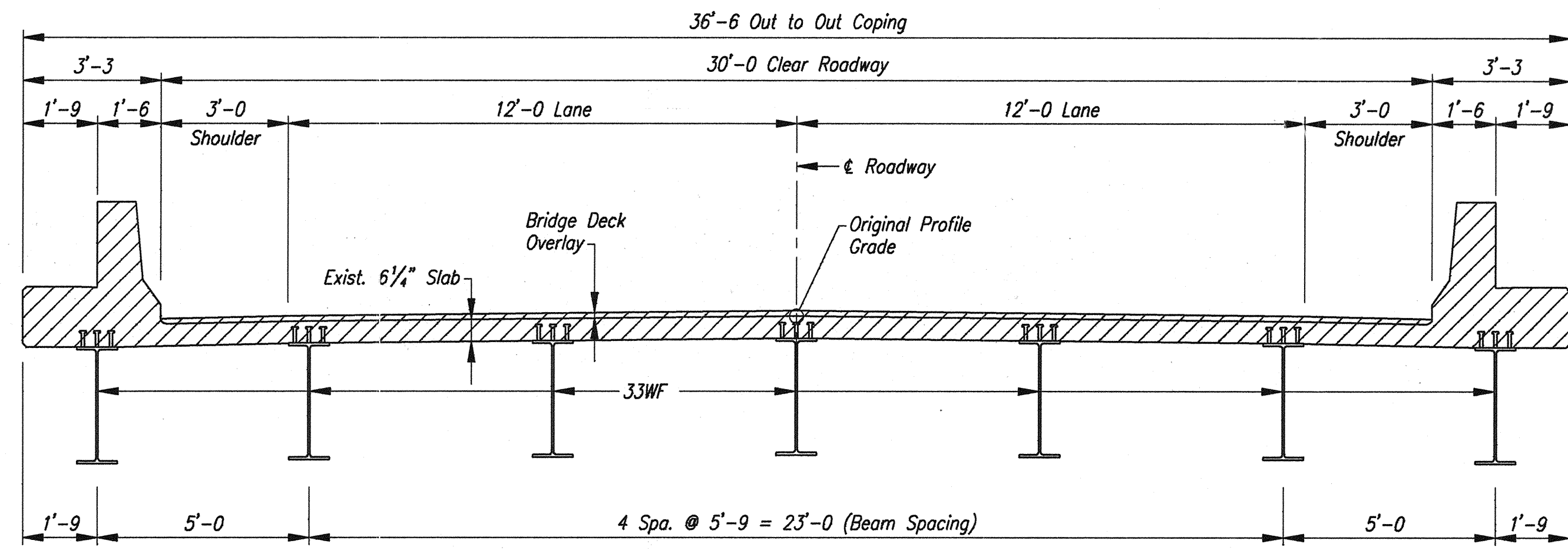
DRAWING: W1 OF W26 SHEET: 2 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: I-74-14-2333D



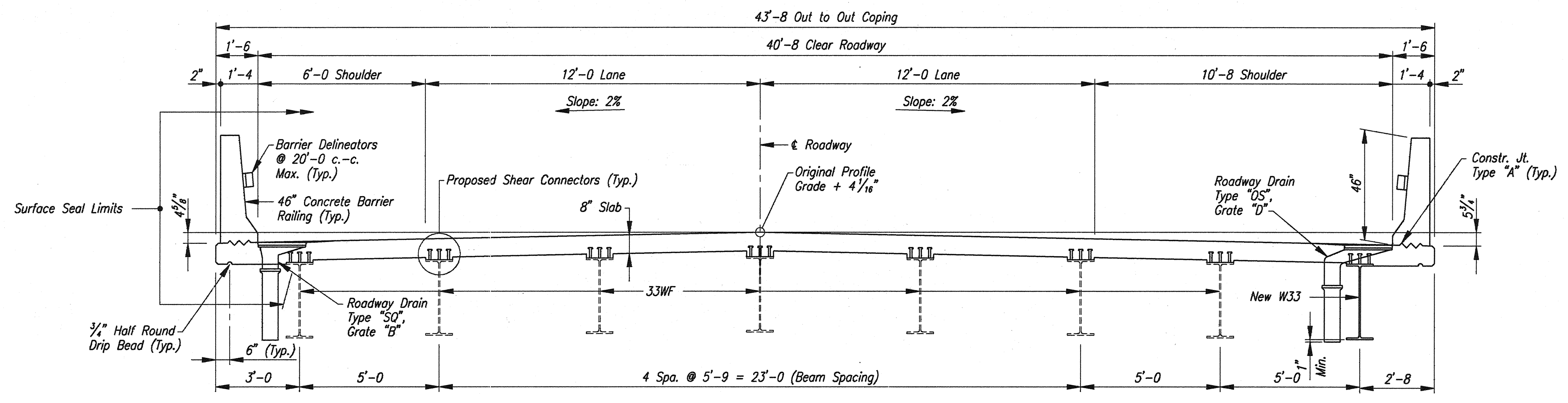
NOTE:
For Typical Sections, & General Notes, see Drawing W2.
* Indicates Items Included in Road Summary
** The existing steel beams shall be supported during Bent No. 1 and reconstruction of bearing areas of Piers No. 3 & 4 and Bent No. 5. Pay Item "Jacking and Supporting Beams" - Lump Sum.

REV. 11/7/95 CONC. BR. RAIL. TRANSITION TYPE TGB, MODIFIED
STANDARD DRAWINGS

DESIGNED	J.D.R.	CHEK	J.J.B.
DRAWN	W.K.S.	CHEK	J.D.R.
TRACED		CHEK	



TYPICAL REMOVAL SECTION
Scale: 3/8" = 1'-0"



PROPOSED TYPICAL SECTION
Scale: 3/8" = 1'-0"

GENERAL NOTES

Plans for this structure are on file in the Central Office, INDOT as Bridge File Nos. 1-74-14-2333 and 1-74-14-2333A, 1-74-14-2333B, and 1-74-14-2333C and are available upon request.

Reinforcing steel covering shall be 2 1/2" in the top and 1" minimum in the bottom of the floor slab, 3" in the footings except bottom steel which shall be 4", and 2" in all other parts, unless noted.

Piles shall be driven to elevation shown on plans or below, if necessary, to obtain required bearing.

Surface seal all faces of the concrete railings, face of copings, underside of the slab from the coping to the flange of the exterior beam, bridge seats, top of the floor slab, and all exposed faces of the wingwalls. (Est. 43,800 Sft.)

Stationing corresponding with the Roadway Plans of this 4-R Project (Line "c") is noted herein for reference. However these Bridge Rehabilitation Plans have been designed and detailed based upon the stationing and elevations referenced in the Original Construction Plans for this structure, dated January 7, 1963. These Original Plans are on file at INDOT, Central Office and shall be used in complying with Section 105.05 of the Standard Specifications.

GENERAL PLAN

DECK REPLACEMENT & WIDENING
TWIN CONTINUOUS COMPOSITE STEEL BEAM BRIDGES
4-SPANS: 62'-0", 96'-0", 96'-0", AND 62'-0"
40'-8" CLEAR ROADWAY, SKEW: 30° RIGHT
1-74 OVER DRY RUN CREEK

INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

SCALE: As Noted

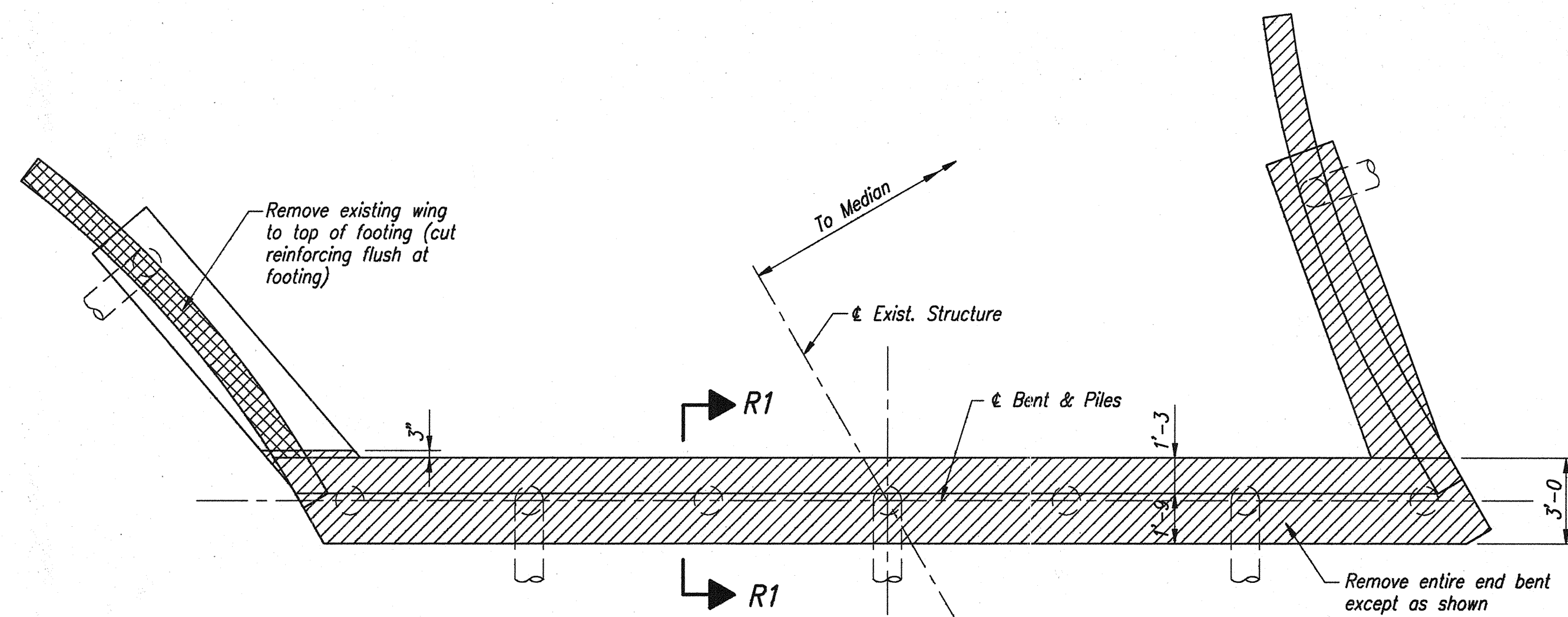
DATE: OCTOBER 17, 1995

Jerry D. Ritchie

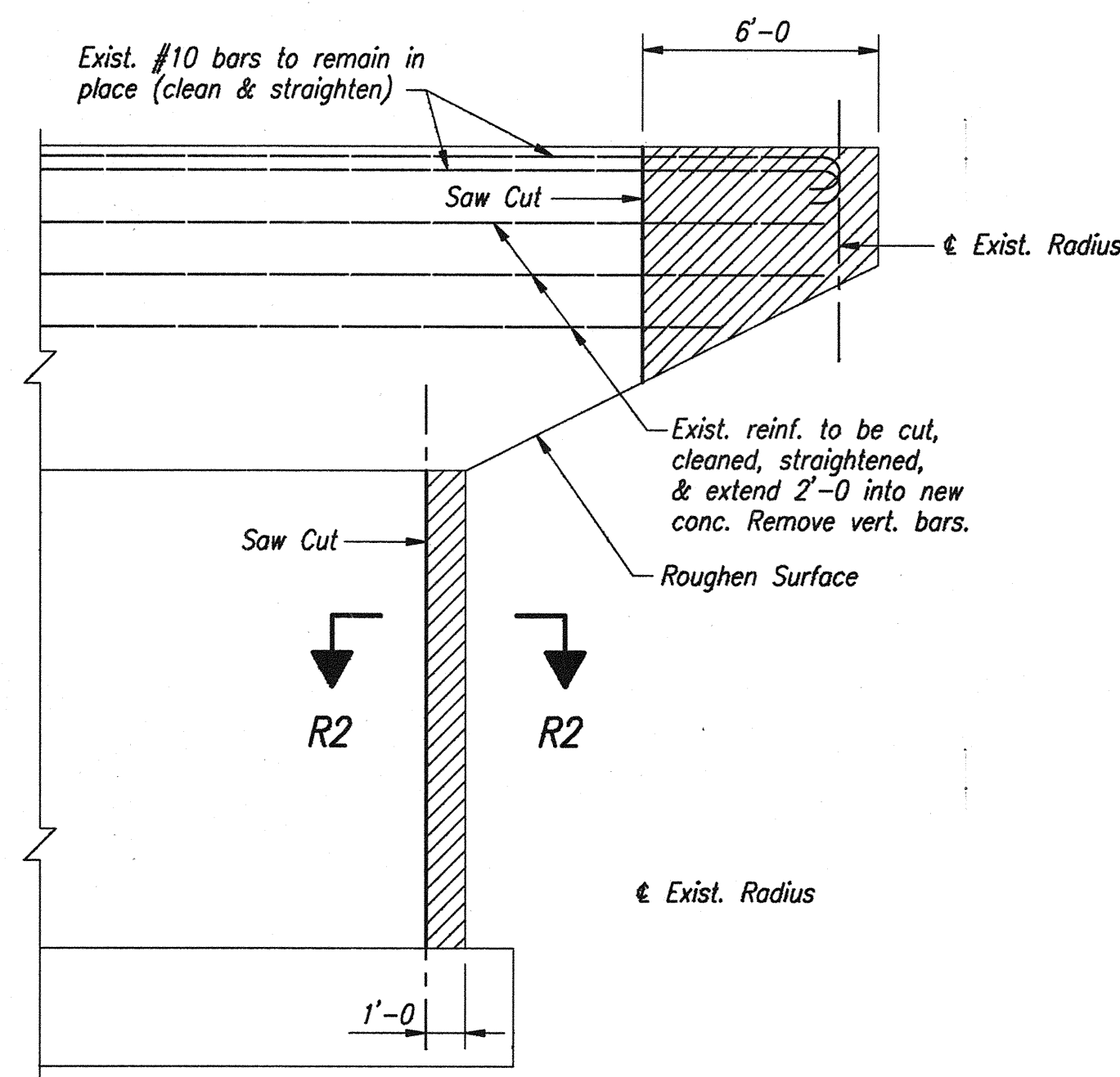
DRAWING: W2 OF W26 SHEET: 3 OF 36
PROJECT: 1M-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: 1-74-14-2333D



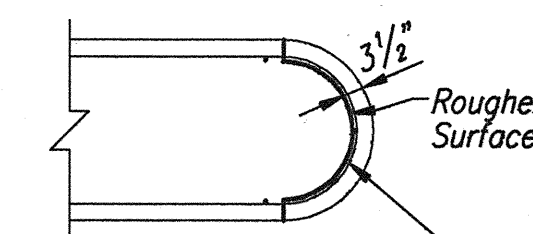
DESIGNED	J.D.R.	CHKD	
DRAWN	W.K.S.	CHKD	J.D.R.
TRACED		CHKD	



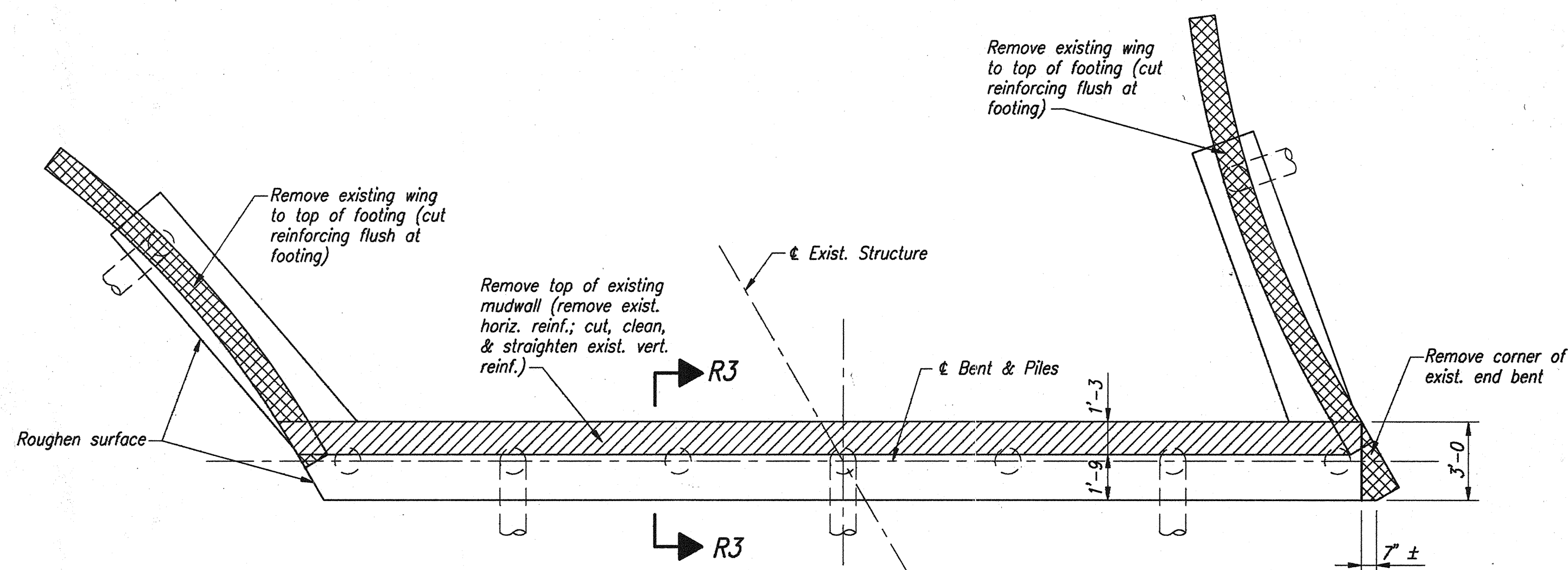
REMOVAL PLAN - BENT NO. 1
Scale: 1/4" = 1'-0"



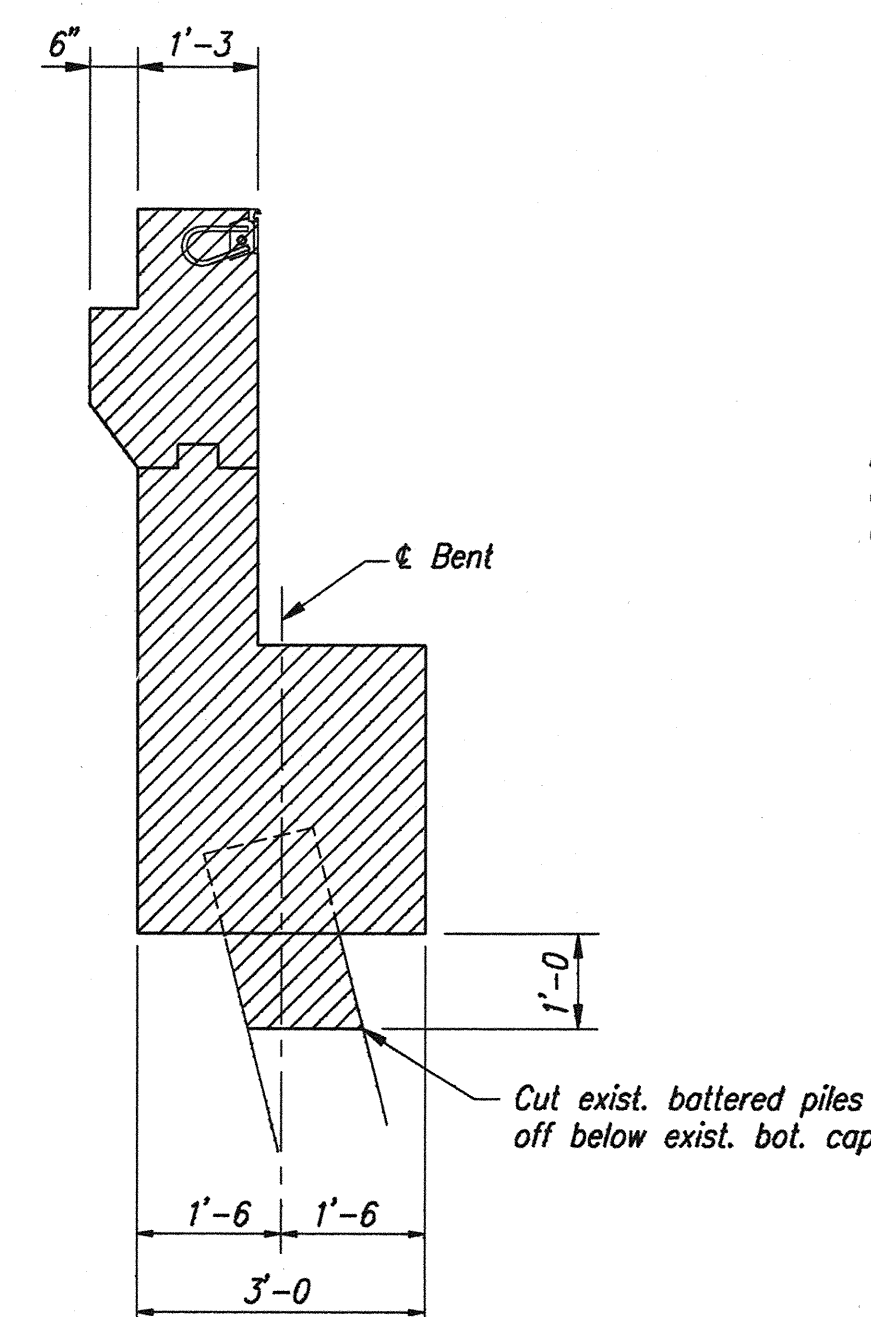
TYPICAL PIER REMOVAL
Scale: 1/4" = 1'-0"



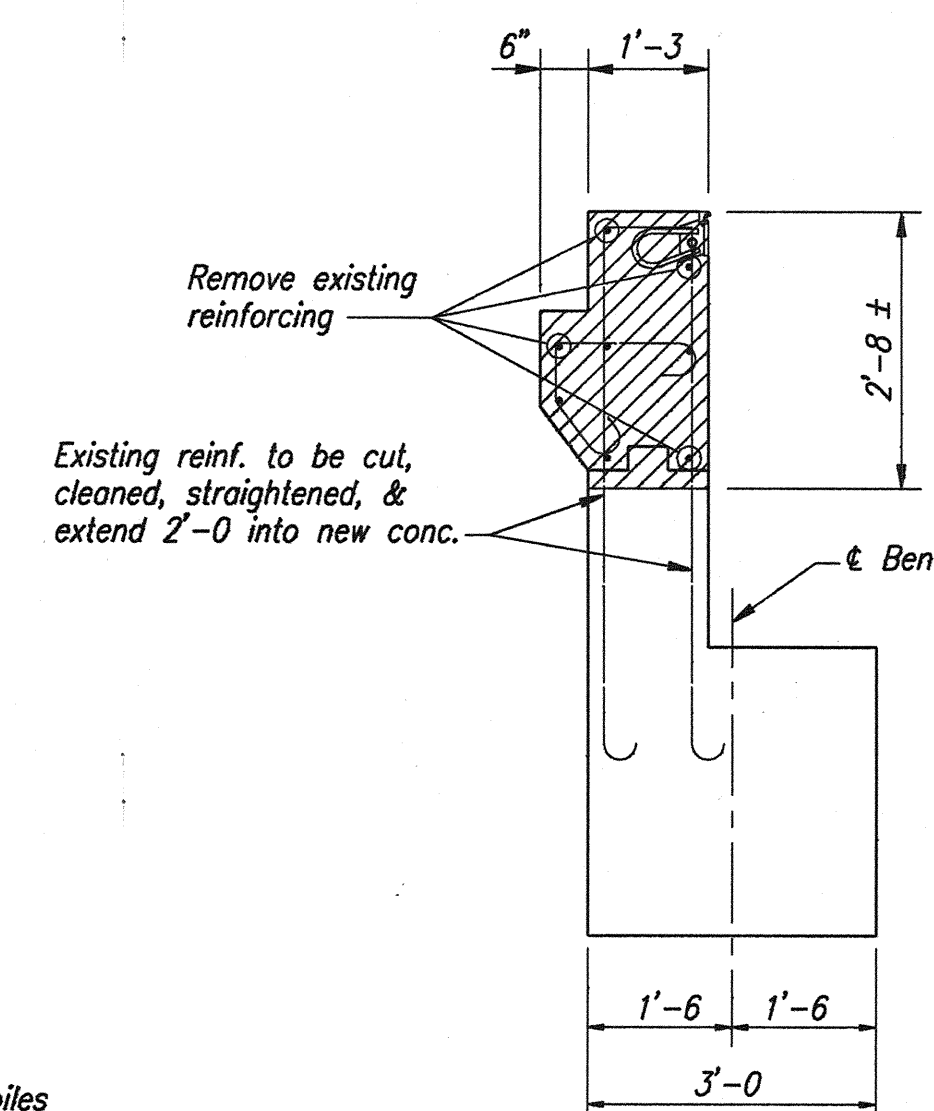
SECTION "R2-R2"
Scale: 1/8" = 1'-0"



REMOVAL PLAN - BENT NO. 5
Scale: 1/4" = 1'-0"



SECTION "R1-R1"
Scale: 1/2" = 1'-0"



SECTION "R3-R3"
Scale: 1/2" = 1'-0"

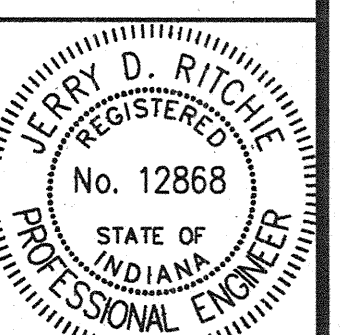
REMOVAL DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

SCALE: As Noted

DATE: OCTOBER 17, 1995

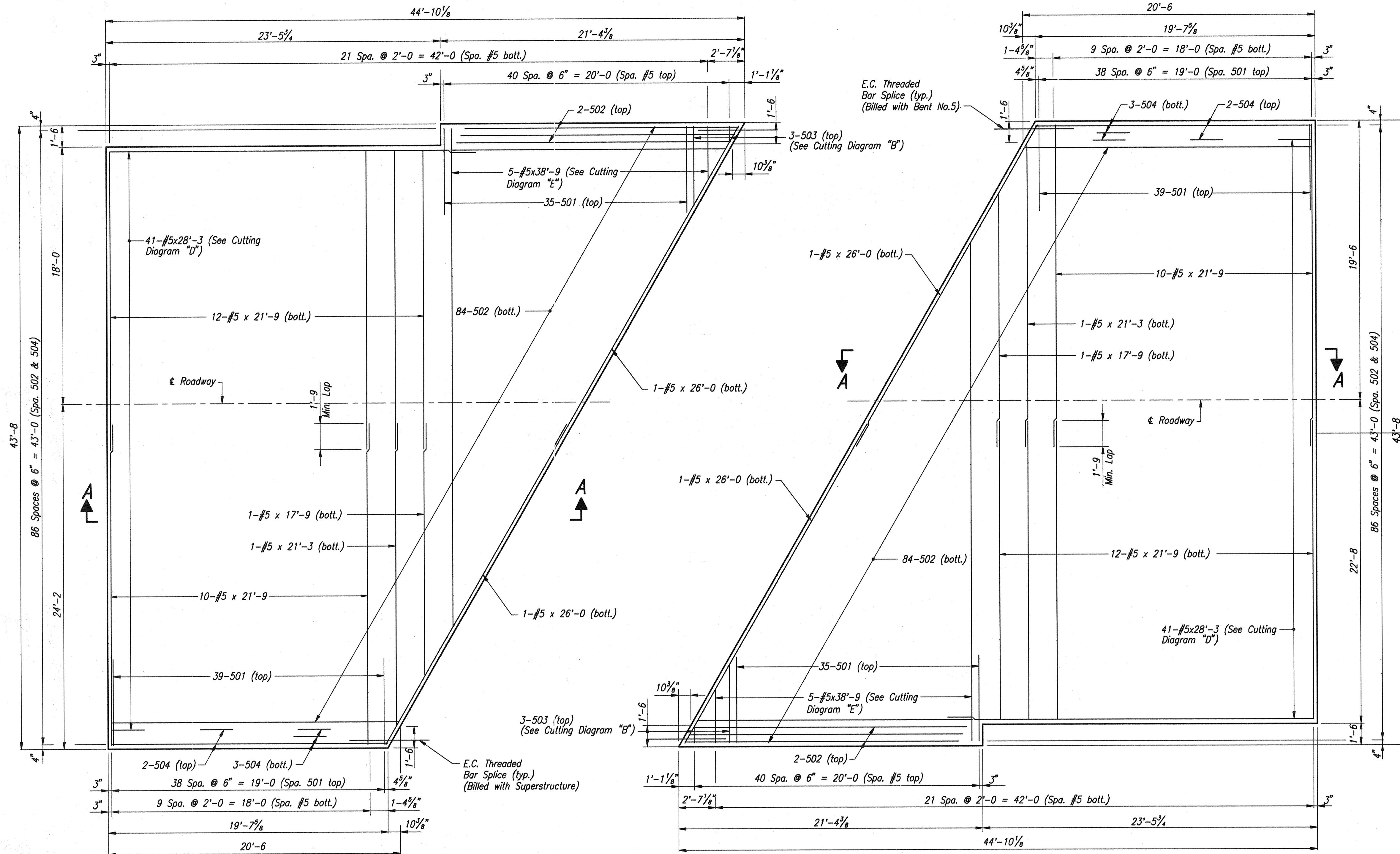
Jerry D. Ritchie

DRAWING: W3 OF W26 SHEET: 4 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: I-74-14-2333D



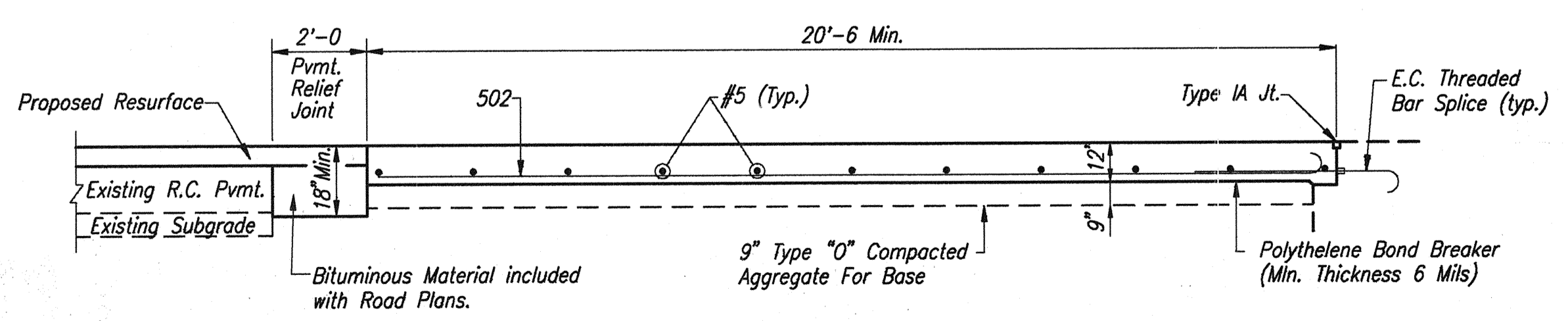
33-416-080 (08/85) (11-88)

DESIGNED: J.L.F. BY: J.D.R.
DRAWN: J.L.F. BY: J.D.R.
CHECKED: BY:

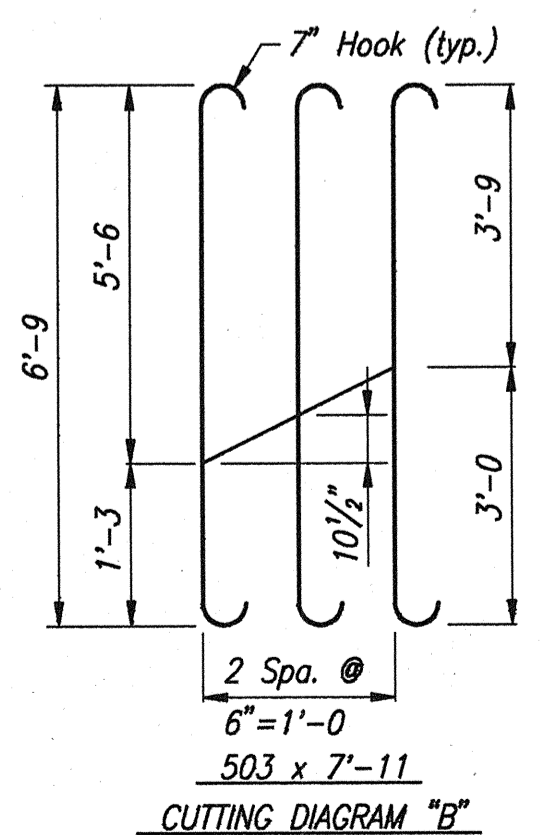


PLAN BENT NO.1
 Scale: 1/4" = 1'-0"
 (EASTBOUND WEST APPROACH SLAB SHOWN
 WESTBOUND EAST APPROACH SLAB SAME BY 180° ROTATION)

PLAN BENT NO.5
 Scale: 1/4" = 1'-0"
 (EASTBOUND EAST APPROACH SLAB SHOWN
 WESTBOUND WEST APPROACH SLAB SAME BY 180° ROTATION)



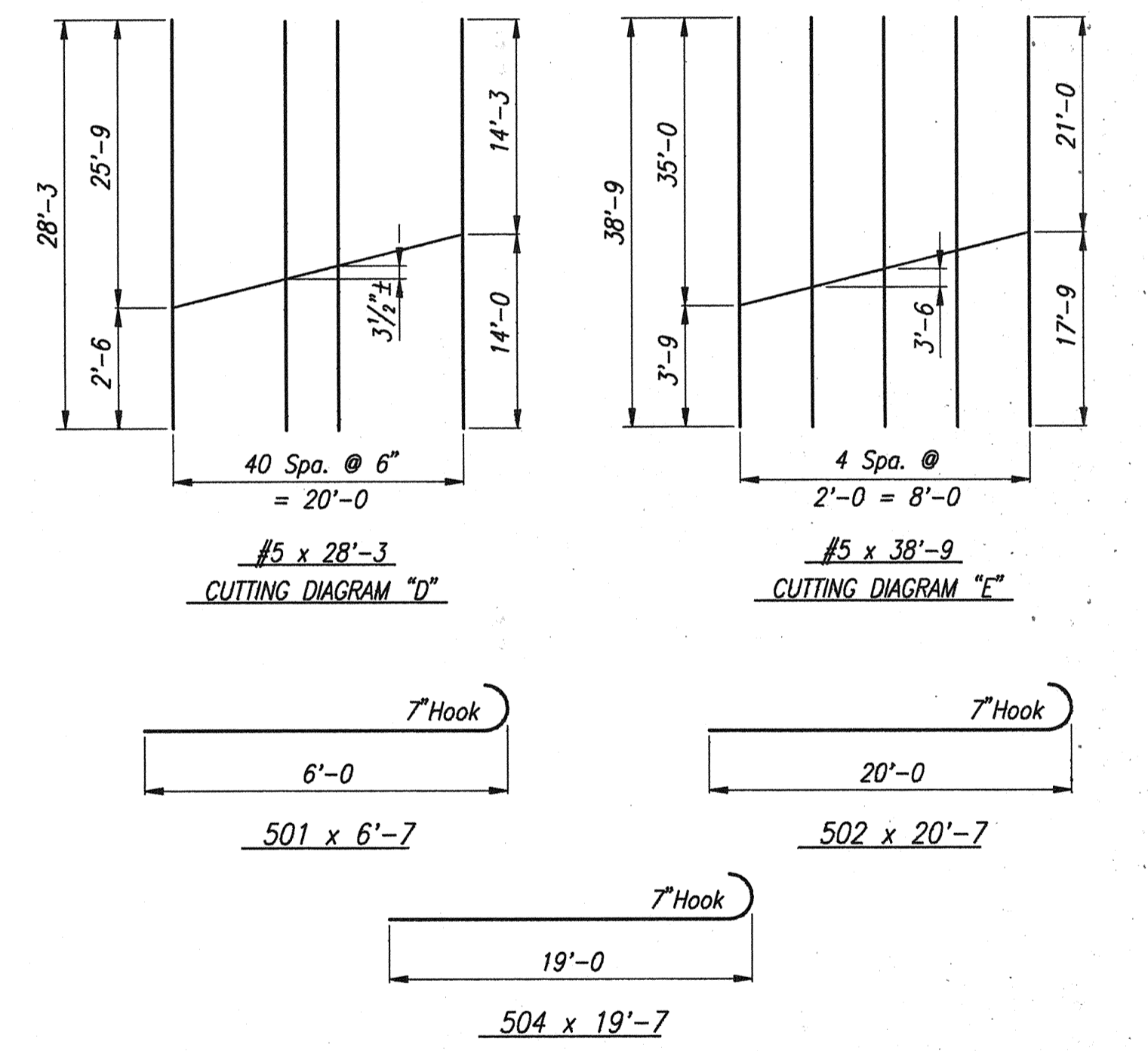
SECTION "A-A"
 Scale: 3/8" = 1'-0"



CUTTING DIAGRAM "B"

BILL OF MATERIALS EASTBOUND EAST APPROACH SLAB (WESTBOUND WEST APPROACH SLAB SAME)			
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
501	74	6'-7"	
502	86	20'-7"	
503	3	7'-11"	
504	5	19'-7"	
#5	5	38'-9"	
#5	41	28'-3"	
#5	2	26'-0"	
#5	22	21'-9"	
#5	1	21'-3"	
#5	1	17'-9"	
Total E.C. Reinforcing Steel			4,486
12" R.C. CONCRETE PAVEMENT			152.5 Sys.
MISCELLANEOUS			
Type "O" Comp. Agg. For Base			76 Tons

BILL OF MATERIALS EASTBOUND WEST APPROACH SLAB (WESTBOUND EAST APPROACH SLAB SAME)			
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
501	74	6'-7"	
502	86	20'-7"	
503	3	7'-11"	
504	5	19'-7"	
#5	5	38'-9"	
#5	41	28'-3"	
#5	2	26'-0"	
#5	22	21'-9"	
#5	1	21'-3"	
#5	1	17'-9"	
Total E.C. Reinforcing Steel			4,486
12" R.C. CONCRETE PAVEMENT			152.5 Sys.
MISCELLANEOUS			
Type "O" Comp. Agg. For Base			76 Tons



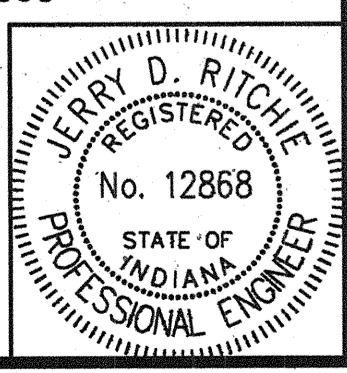
NOTES:
 For Reinforcing Bar Notes, see Bridge Standard C1
 For R.C. Approach Details, see Road Standard Sheet A, Joints and Sheet B, Joints
 Railing & Railing Transition Bars to be preset in the Approach Slabs.
 See Dwg. Nos. W23-W26 and Br. Std. BR-1 for Details.

APPROACH SLAB DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
 FOUNTAIN COUNTY

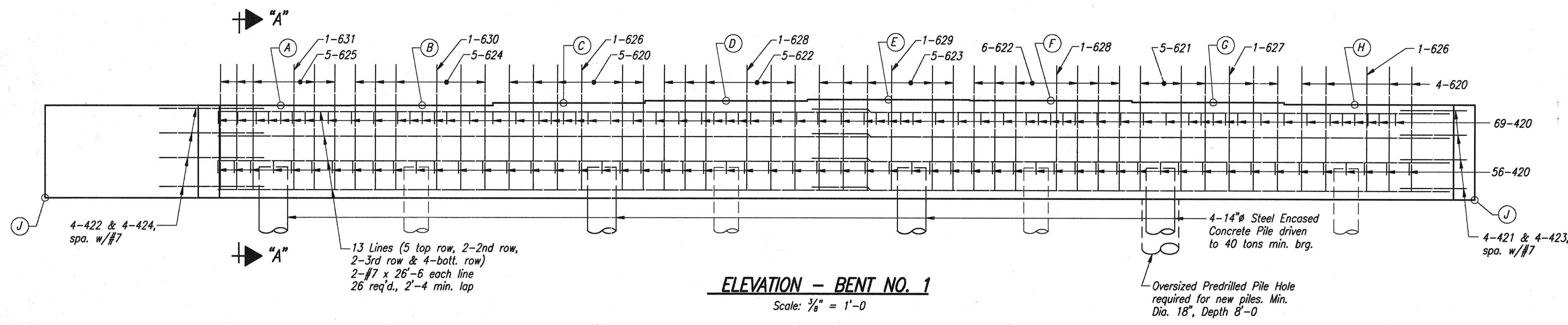
SCALE: As Noted DATE: OCTOBER 17, 1995

Jerry D. Ritchie

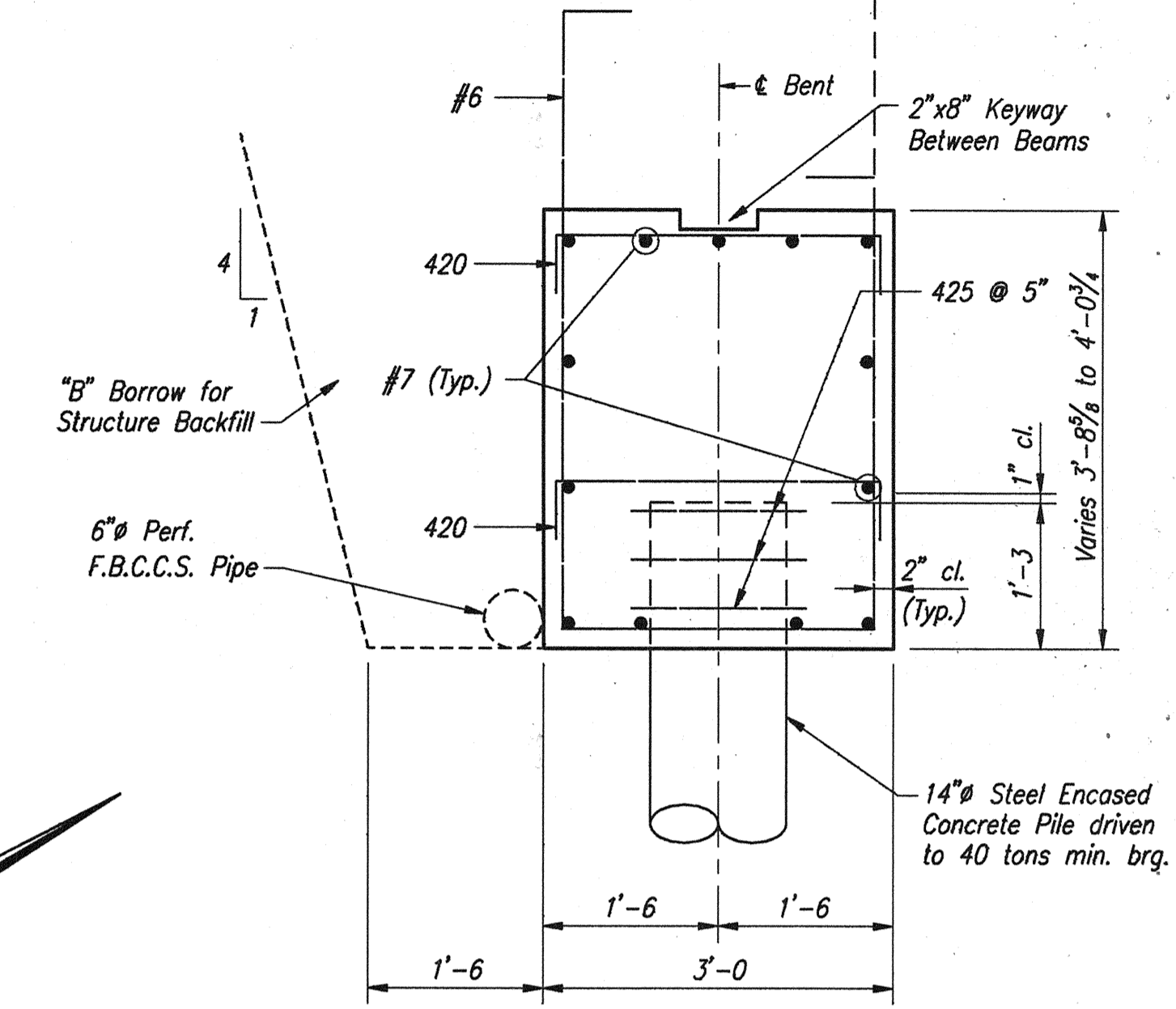
DRAWING: W4 OF W26 SHEET: 5 OF 36
 PROJECT: IM-74-1(115)0
 BRIDGE CONTRACT NO. R-21467
 BRIDGE FILE: I-74-14-2333D



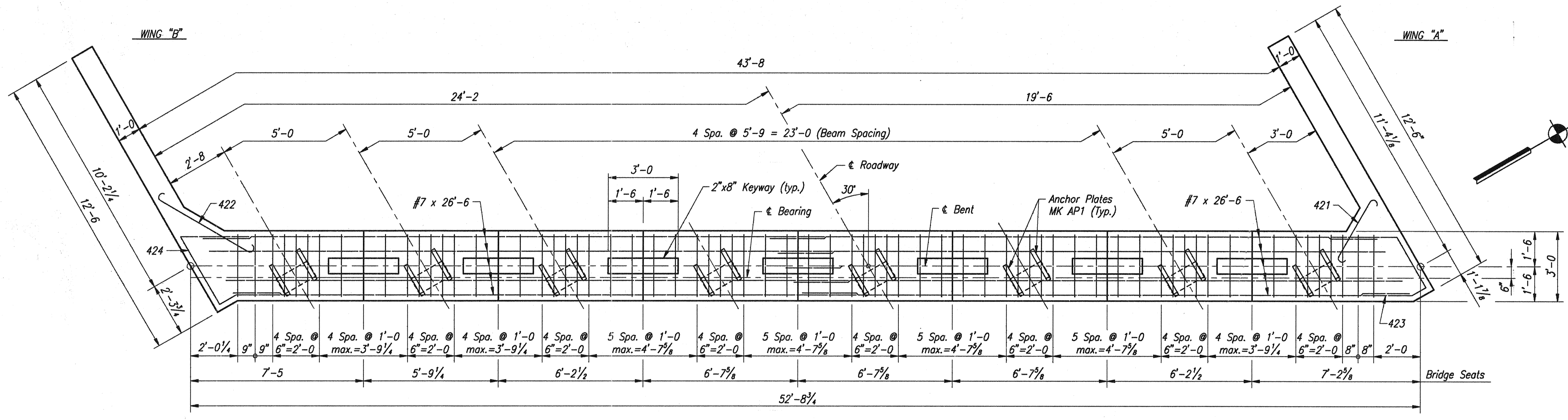
DESIGNED	J.D.R.	CHKD	J.J.B.
DRAWN	D.W.B.	CHKD	J.D.R.
TRACED		CHKD	



ELEVATION - BENT NO. 1
Scale: 1/8" = 1'-0"

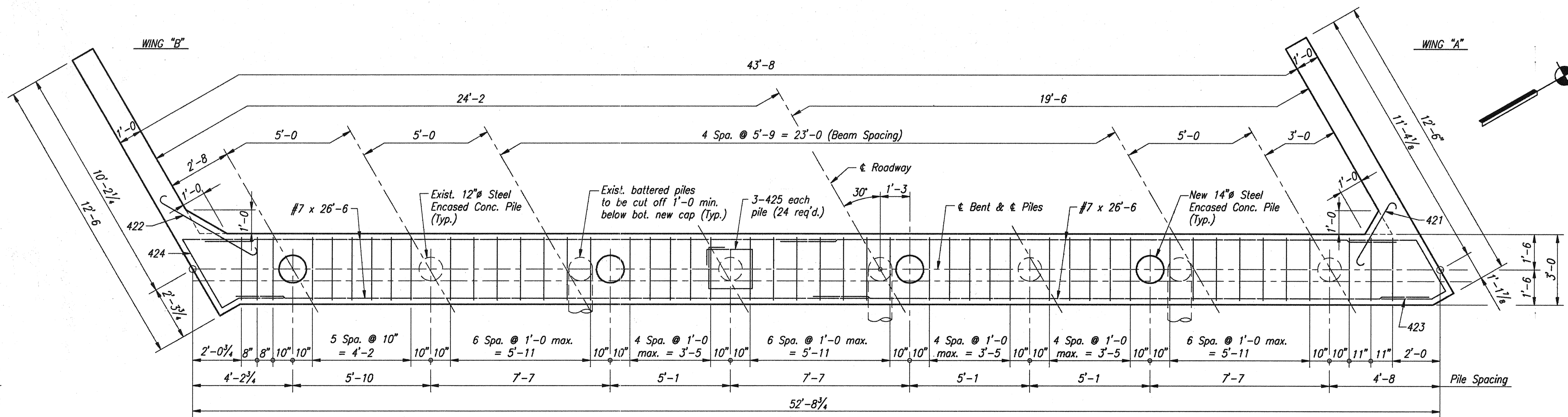


SECTION "A-A"
Scale: 1/4" = 1'-0"



PLAN - BENT NO. 1
Scale: 1/8" = 1'-0"

TABLE OF ELEVATIONS	
POINT	ELEVATION
A	613.795
B	613.880
C	613.985
D	614.080
E	614.140
F	614.115
G	614.055
H	613.980
J	610.080
Top of Pile	611.330



PILING PLAN
Scale: 1/8" = 1'-0"

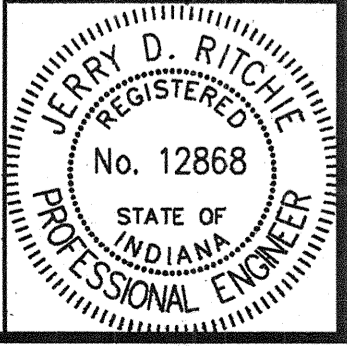
NOTES:
For Reinforcing Bar Notes, see Br. Std. C1.
For Type "A" Constr. Jt., see Br. Std. C3.
For Additional End Bent Details, see Dwg. W7.

BENT NO. 1 EASTBOUND DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

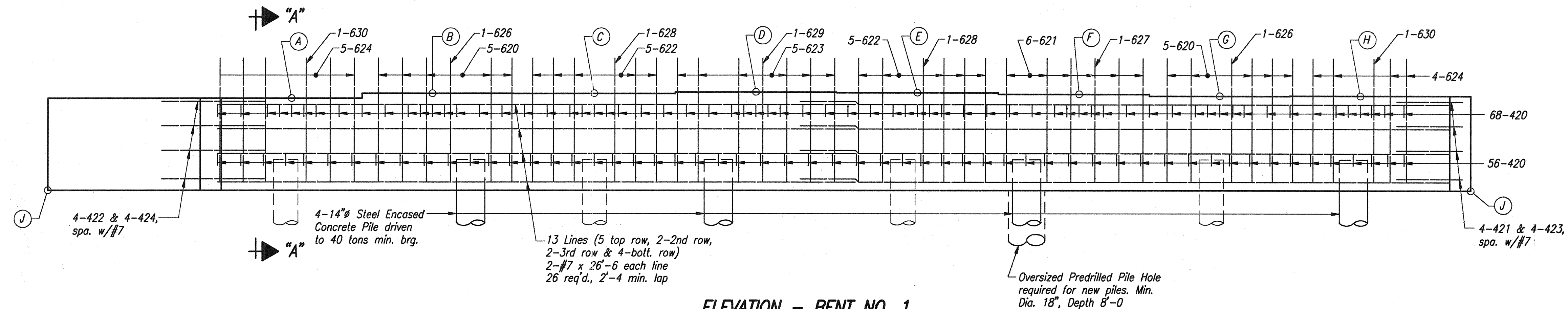
SCALE: As Noted DATE: OCTOBER 17, 1995

Jerry D. Ritchie

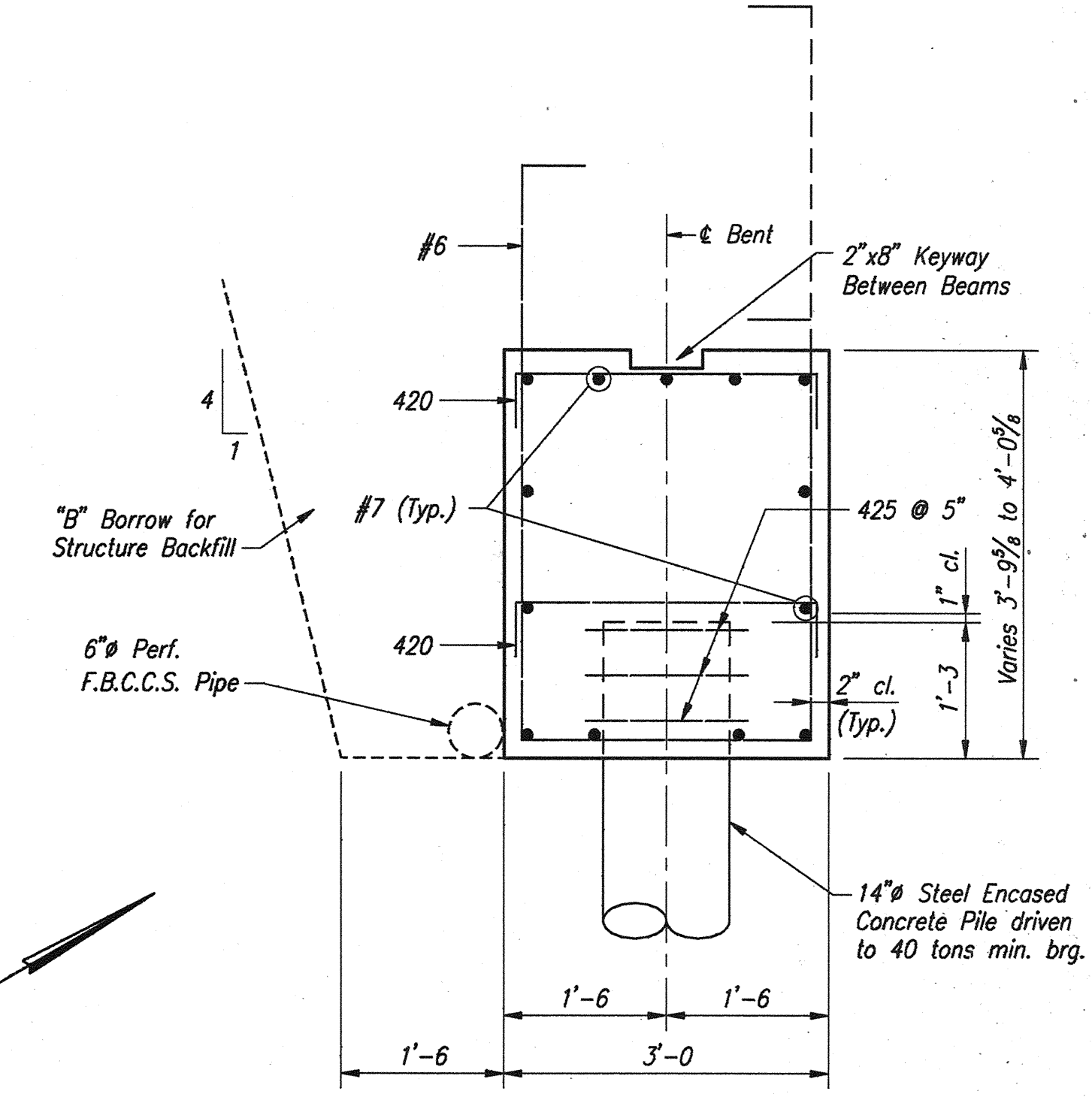
DRAWING: W5 OF W26 SHEET: 6 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: 1-74-14-2333D



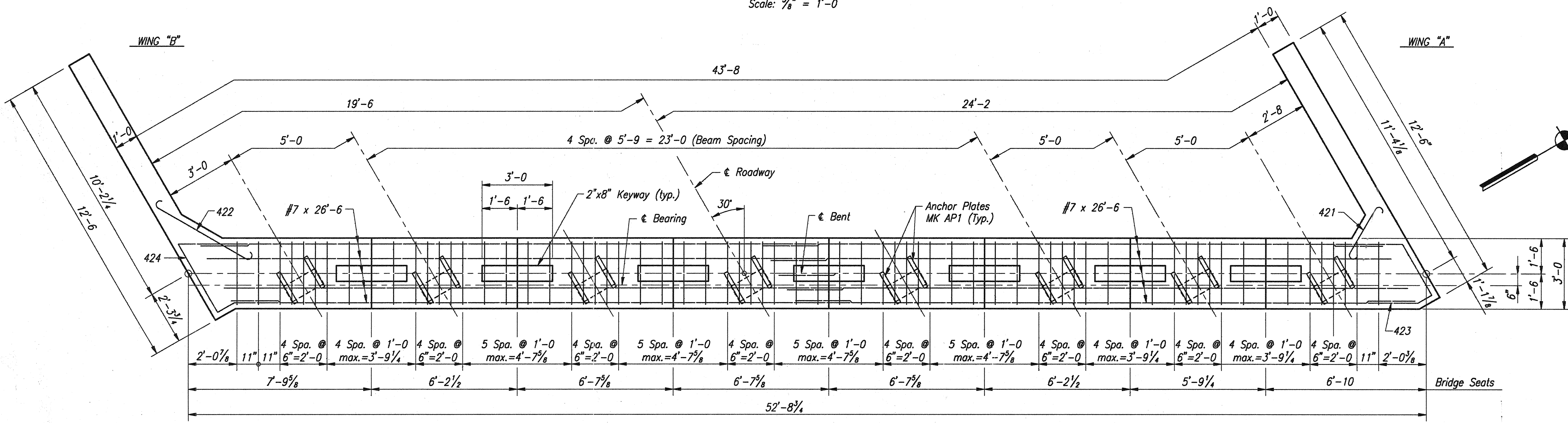
DESIGNED: D.W.B. ckb
DRAWN: J.D.R. ckb
TRACED: ckb



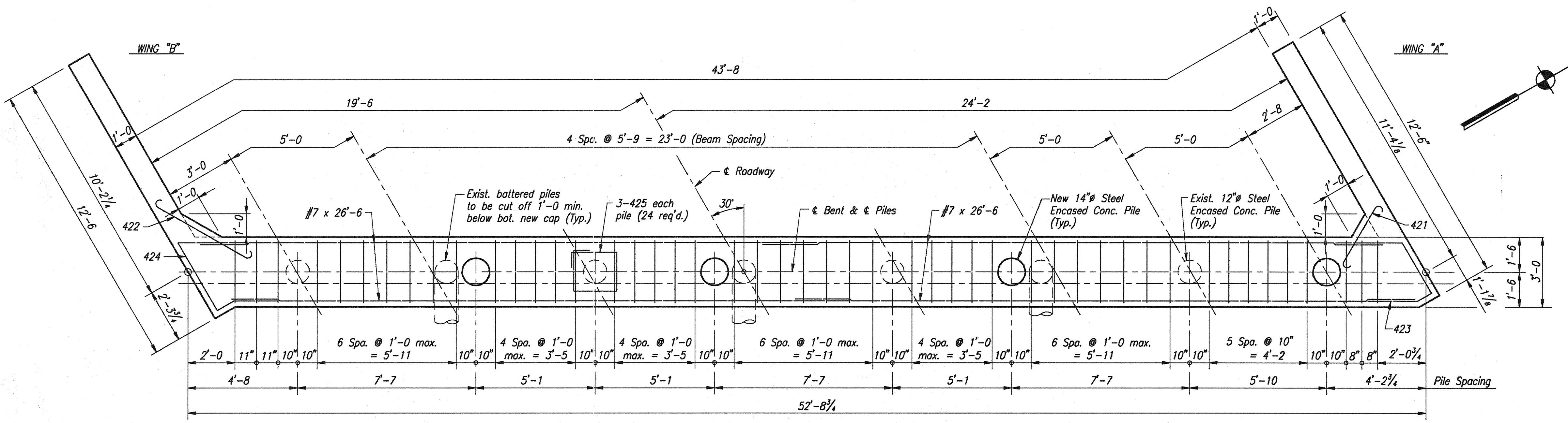
ELEVATION - BENT NO. 1
Scale: 1/8" = 1'-0"



SECTION "A-A"
Scale: 1/4" = 1'-0"



PLAN - BENT NO. 1
Scale: 1/8" = 1'-0"



PILING PLAN
Scale: 1/8" = 1'-0"

TABLE OF ELEVATIONS	
POINT	ELEVATION
A	614.105
B	614.205
C	614.300
D	614.360
E	614.335
F	614.270
G	614.195
H	614.140
J	610.305
Top of Pile	611.555

NOTES:
For Reinforcing Bar Notes, see Br. Std. C1.
For Type "A" Constr. Jt., see Br. Std. C3.
For Additional End Bent Details, see Dwg. W7.

BENT NO. 1 WESTBOUND DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

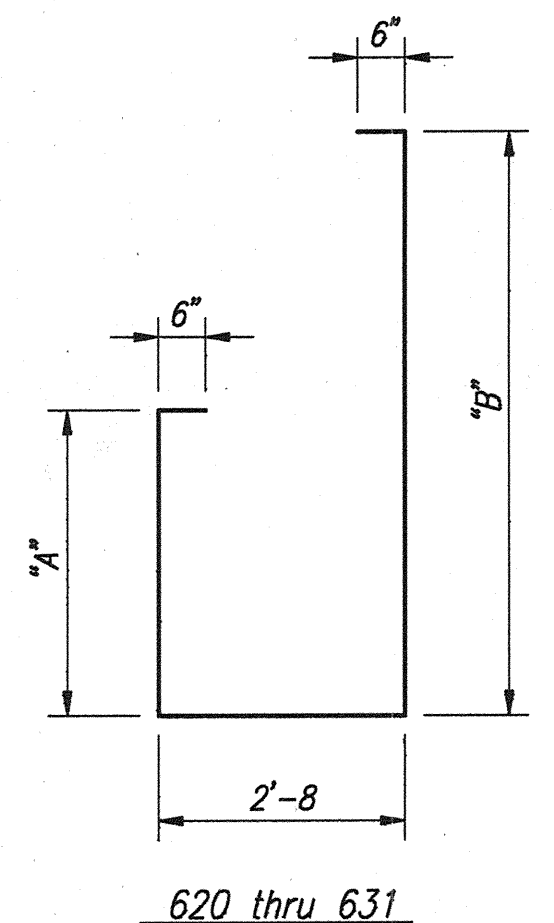
SCALE: As Noted DATE: OCTOBER 17, 1995

Jerry D. Ritchie

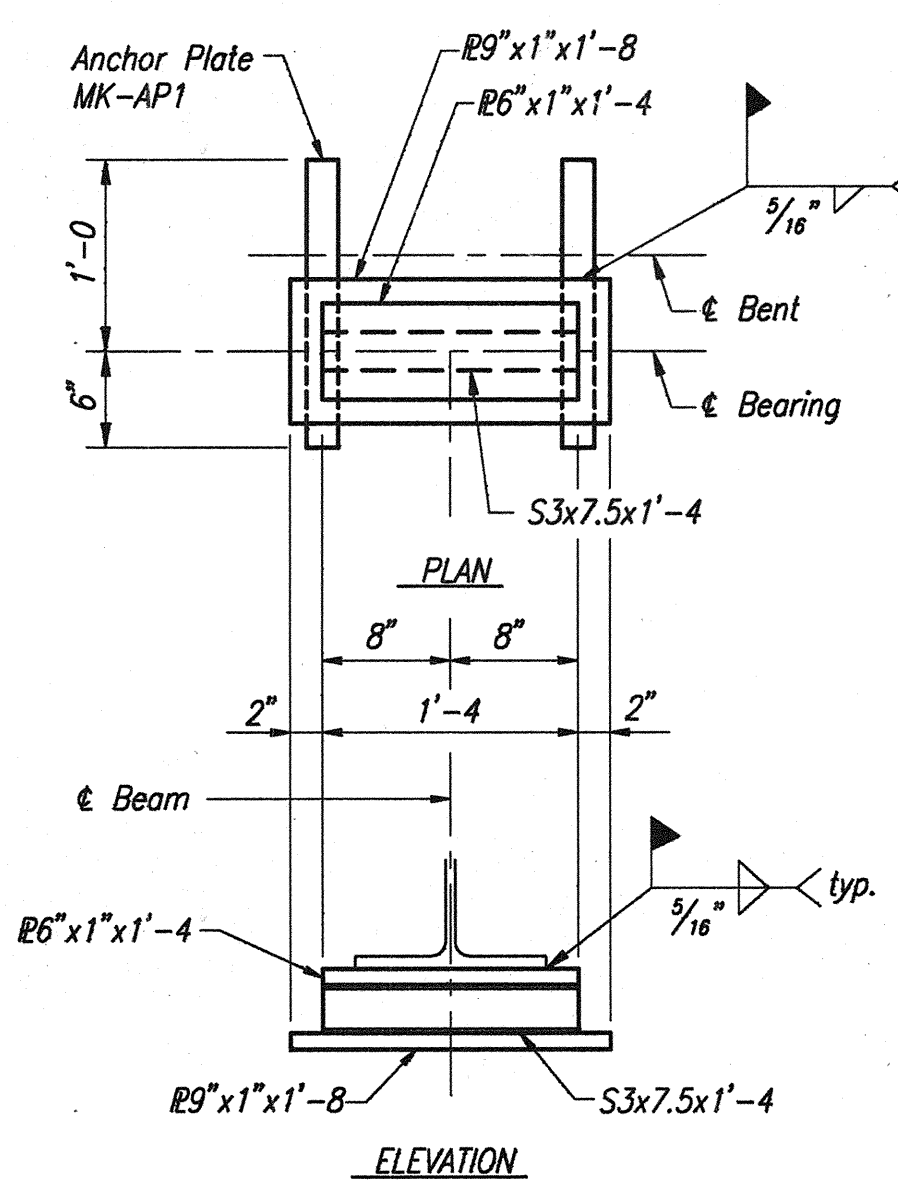
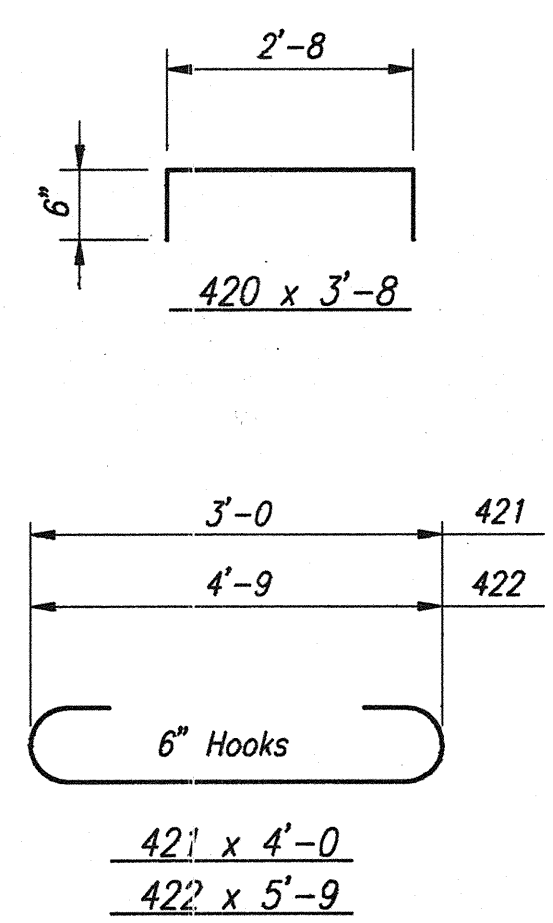
DRAWING: W6 OF W26 SHEET: 7 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: I-74-14-2333D



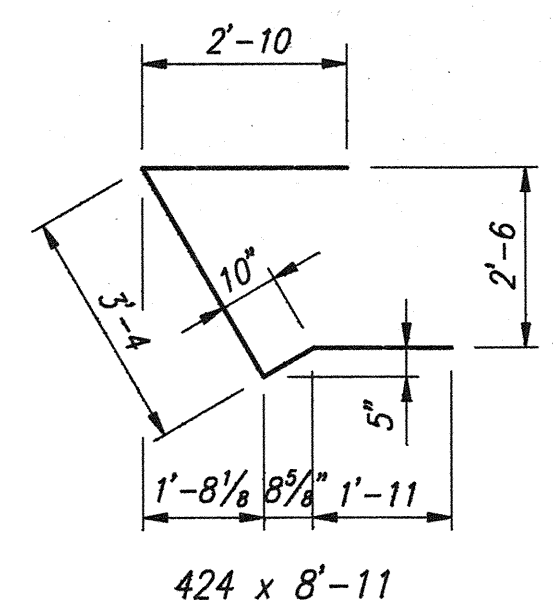
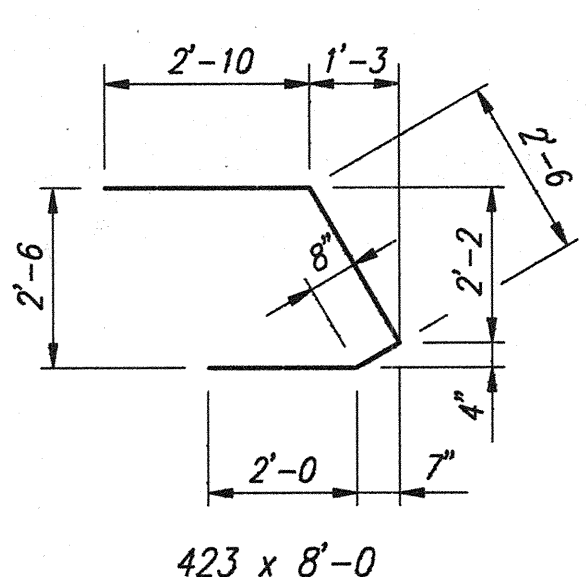
DESIGNED: D.W.B. C.V.N. J.D.R.
DRAWN: J.D.R. C.V.N.
CHECKED: J.D.R. C.V.N.



Mark	"A"	"B"	Total Length
620	6'-2"	7'-4"	17'-2"
621	6'-3"	7'-5"	17'-4"
622	6'-4"	7'-6"	17'-6"
623	6'-5"	7'-7"	17'-8"
624	6'-1"	7'-3"	17'-0"
625	6'-0"	7'-2"	16'-10"
626	6'-2"	3'-10"	13'-8"
627	6'-3"	3'-11"	13'-10"
628	6'-4"	4'-0"	14'-0"
629	6'-5"	4'-0"	14'-1"
630	6'-1"	3'-9"	13'-6"
631	6'-0"	3'-9"	13'-5"



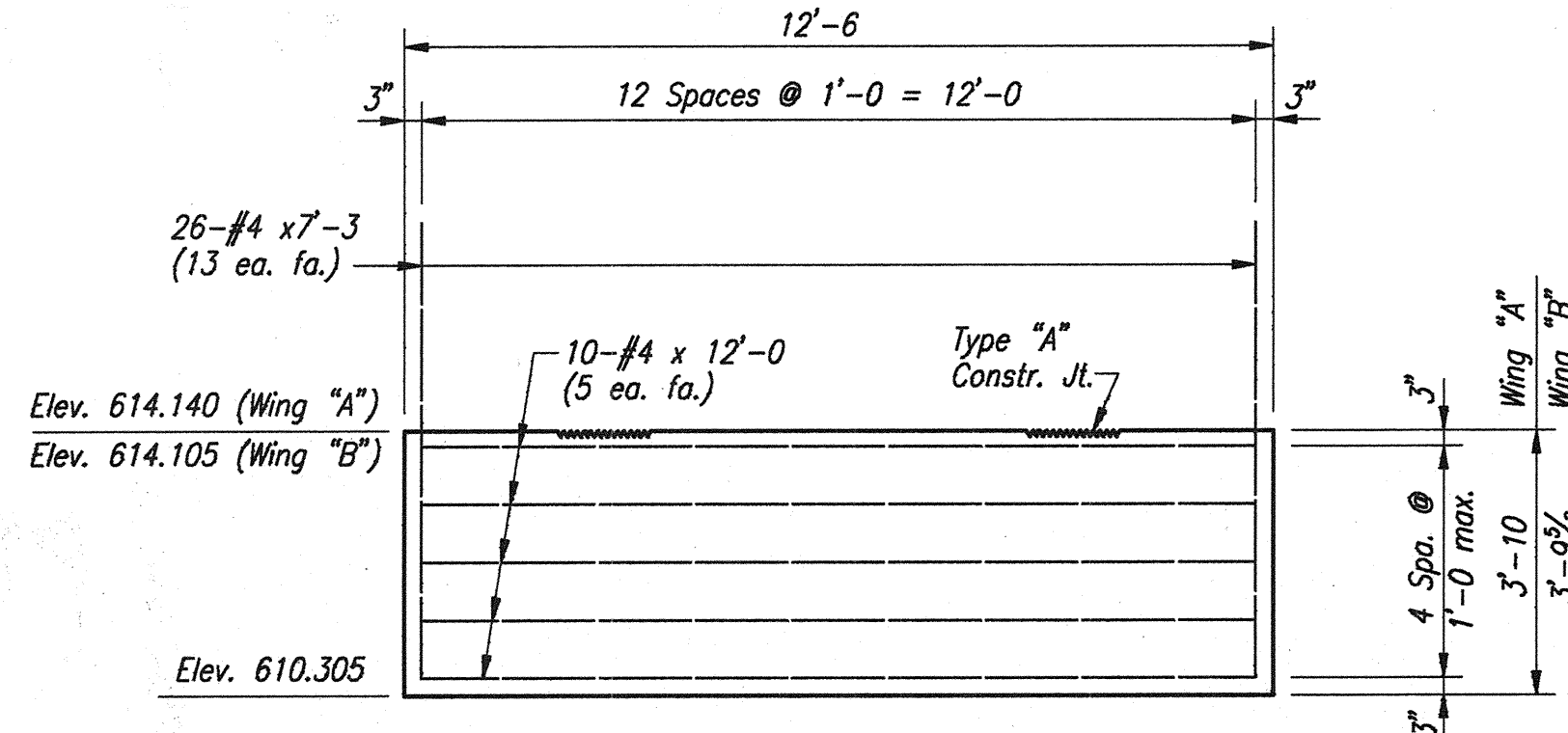
BEARING ASSEMBLY
Scale: 1"=1'-0"



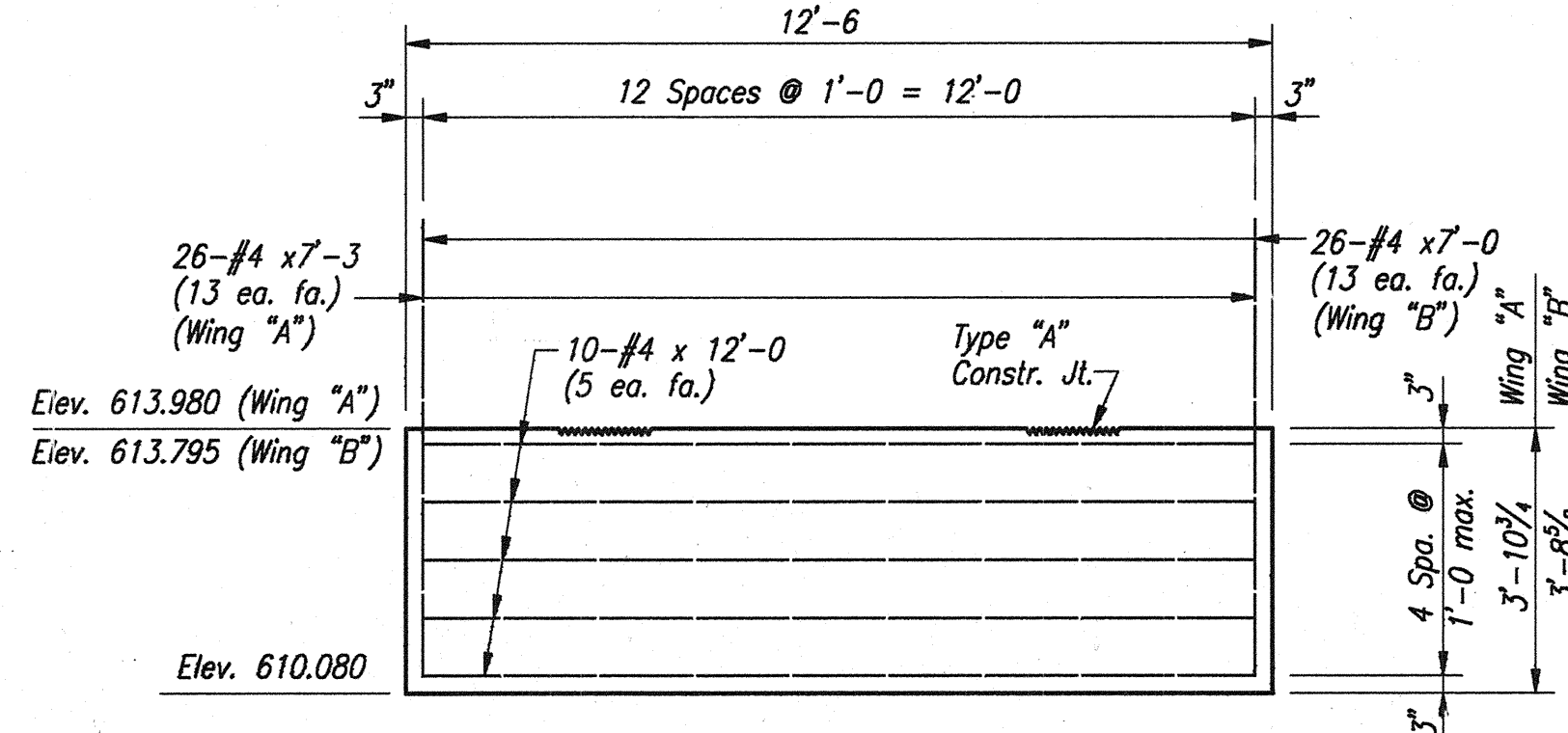
BAR BENDING DETAILS
No Scale

BILL OF MATERIALS BENT NO. 1 - WESTBOUND			
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
#7	26	26'-6"	
Total #7			1,408
620	10	17'-2"	
621	6	17'-4"	
622	10	17'-6"	
623	5	17'-8"	
624	9	17'-0"	
626	2	13'-8"	
627	1	13'-10"	
628	2	14'-0"	
629	1	14'-1"	
630	2	13'-6"	
Total #6			1,205
420	124	3'-8"	
421	4	4'-0"	
422	4	5'-9"	
423	4	8'-0"	
424	4	8'-11"	
425	24	8'-0"	
#4	20	12'-0"	
#4	52	7'-3"	
Total #4			915
Total Epoxy Coated Reinforcing			3,528
CONCRETE			
Class "A" Concrete			
In Substructure			25.7 Cys.
MISCELLANEOUS			
Anchor Plate Mk. AP1			16 Ea.
14" Steel Encased Concrete			
Pile (0.203"): 4 @ 40'-0"			160 Lft.
6" Perf. C.P. Pipe			88 Lft.
"B" Borrow For Str. Backfill			26 Cys.
Oversized Predrilled Pile Holes			32 Lft.

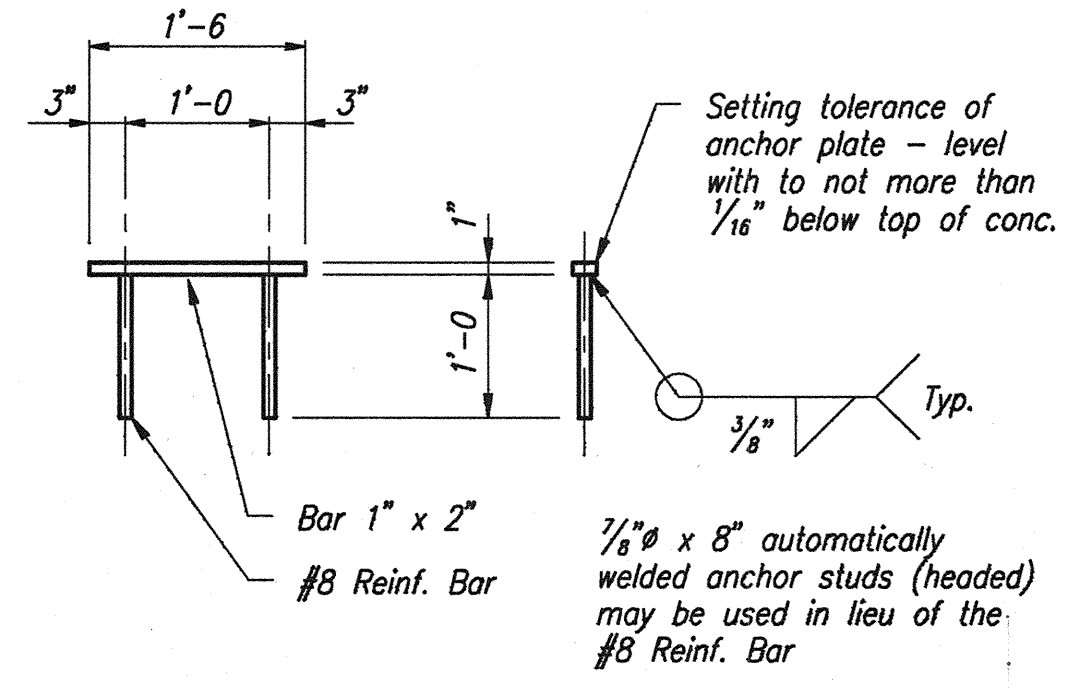
BILL OF MATERIALS BENT NO. 1 - EASTBOUND			
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
#7	26	26'-6"	
Total #7			1,408
620	9	17'-2"	
621	5	17'-4"	
622	11	17'-6"	
623	5	17'-8"	
624	5	17'-0"	
625	5	16'-10"	
626	2	13'-8"	
627	1	13'-10"	
628	2	14'-0"	
629	1	14'-1"	
630	1	13'-6"	
631	1	13'-5"	
Total #6			1,204
420	125	3'-8"	
421	4	4'-0"	
422	4	5'-9"	
423	4	8'-0"	
424	4	8'-11"	
425	24	8'-0"	
#4	20	12'-0"	
#4	26	7'-3"	
#4	26	7'-0"	
Total #4			913
Total Epoxy Coated Reinforcing			3,525
CONCRETE			
Class "A" Concrete			
In Substructure			25.7 Cys.
MISCELLANEOUS			
Anchor Plate Mk. AP1			16 Ea.
14" Steel Encased Concrete			
Pile (0.203"): 4 @ 40'-0"			160 Lft.
6" Perf. C.P. Pipe			88 Lft.
"B" Borrow For Str. Backfill			26 Cys.
Oversized Predrilled Pile Holes			32 Lft.



WINGWALL DETAILS - WESTBOUND
Scale: 3/8"=1'-0"



WINGWALL DETAILS - EASTBOUND
Scale: 3/8"=1'-0"



ANCHOR PLATE MK-AP1 DETAILS
Scale: 3/4"=1'-0"

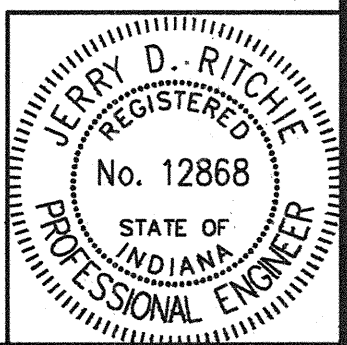
NOTES:
For Reinforcing Bar Notes, see Br. Std. C1.
For Type "A" Constr. Jt., see Br. Std. C3.
For Additional End Bent Details, see Dwg. Nos. W5 & W6.

BENT NO. 1 EASTBOUND & WESTBOUND DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

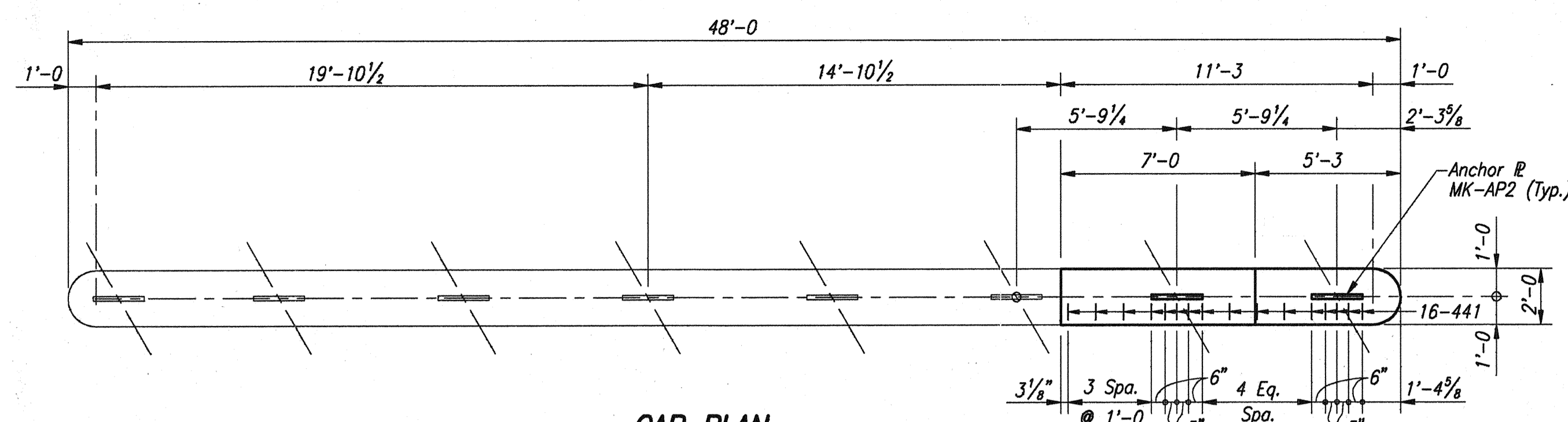
SCALE: As Noted DATE: OCTOBER 17, 1995

Jerry D. Ritchie

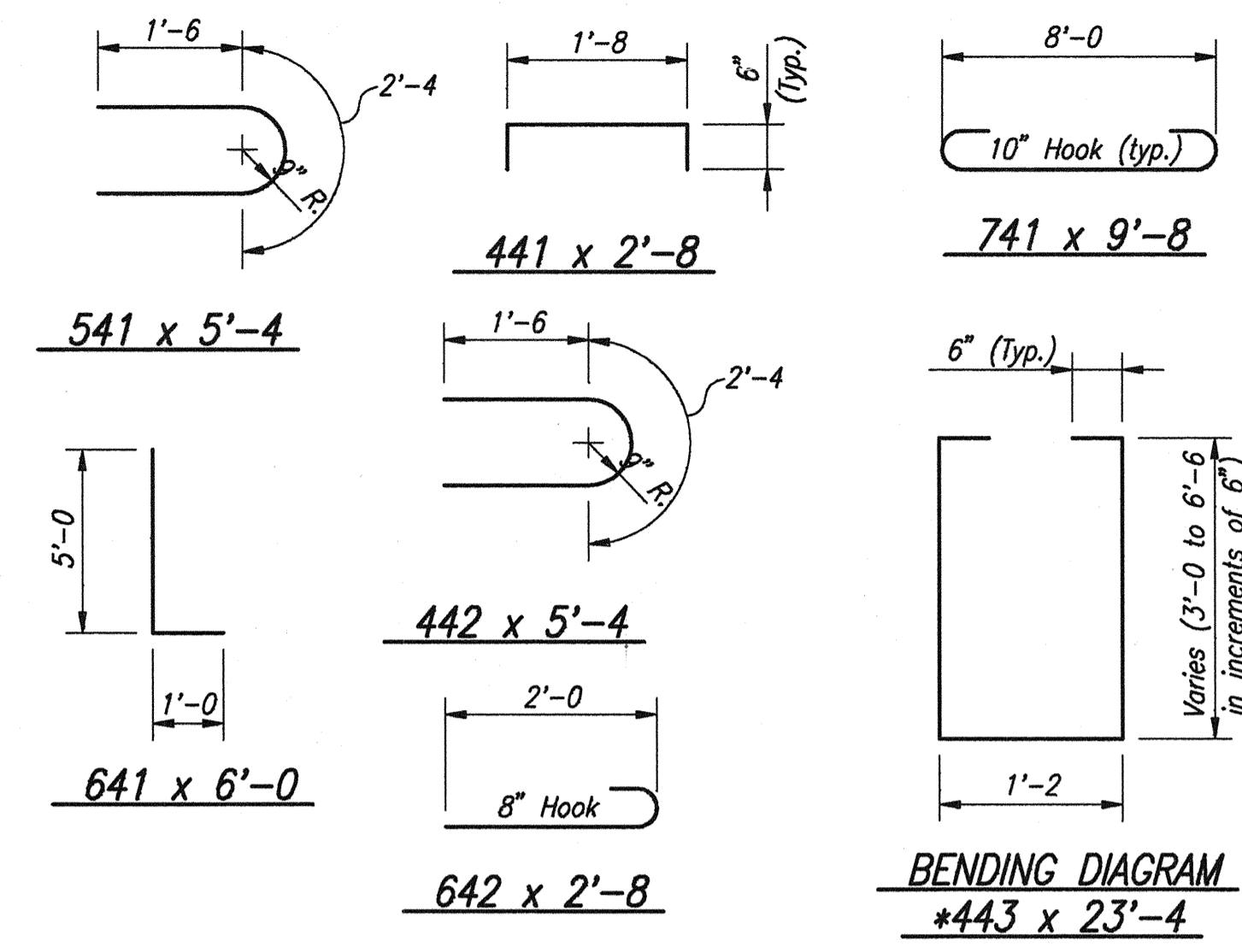
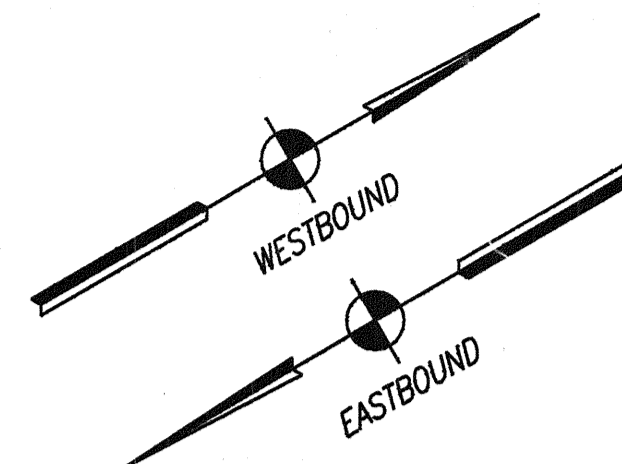
DRAWING: W7 OF W26 SHEET: 8 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: I-74-14-2333D



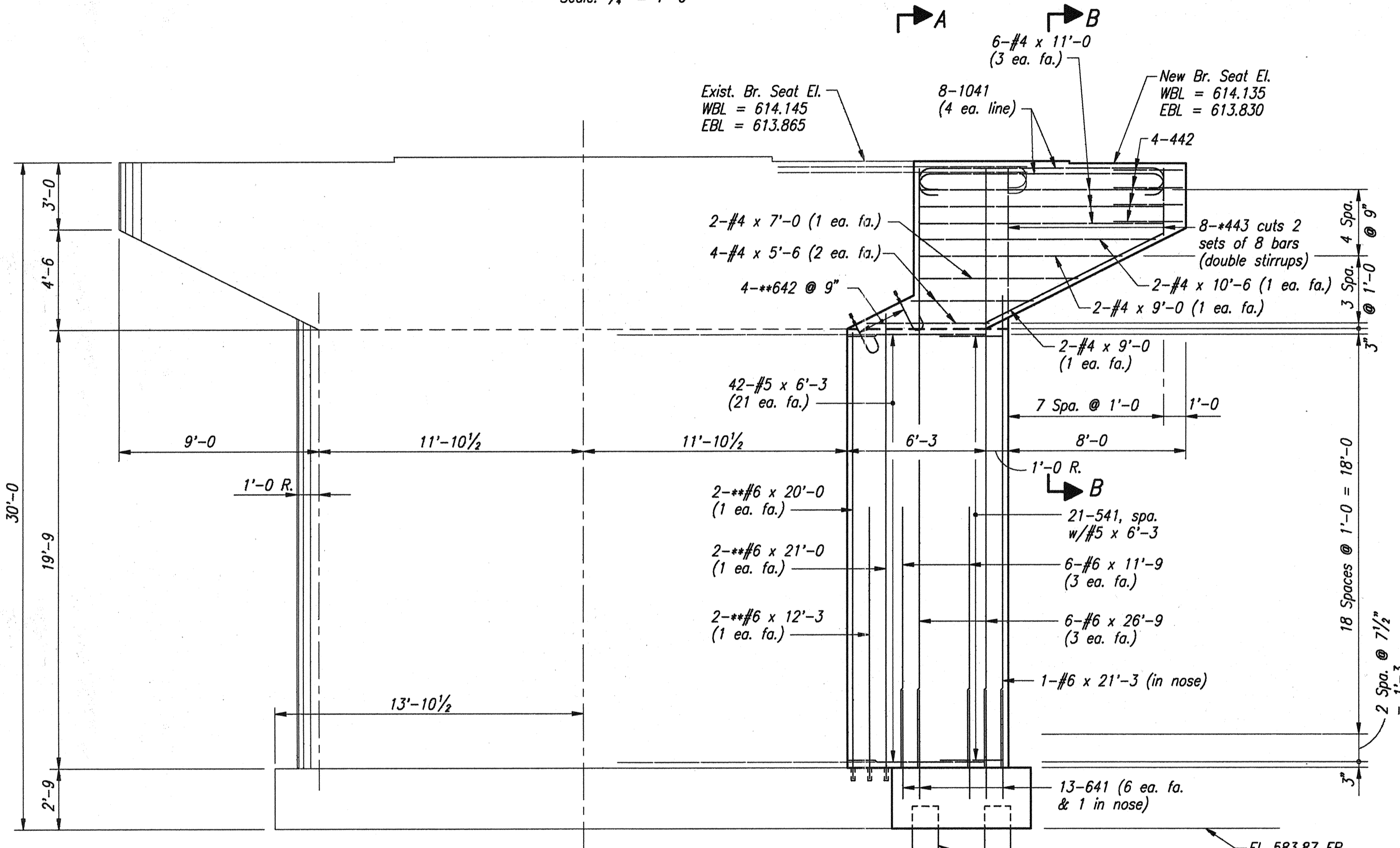
DESIGNED: D.W.B. CIVIL
DRAWN: J.D.R. CIVIL
CHECKED: CIVIL



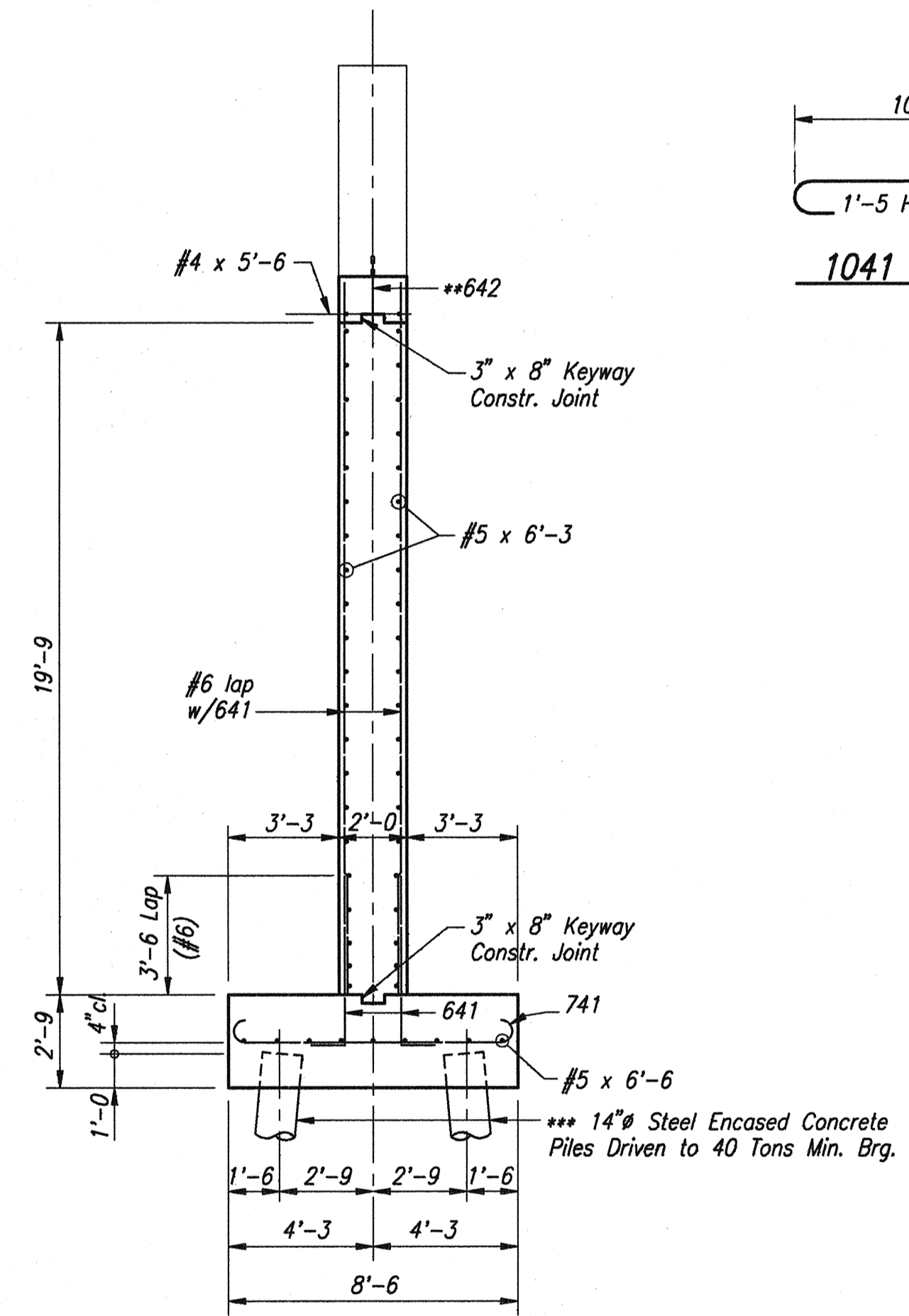
CAP PLAN
Scale: 1/4" = 1'-0"



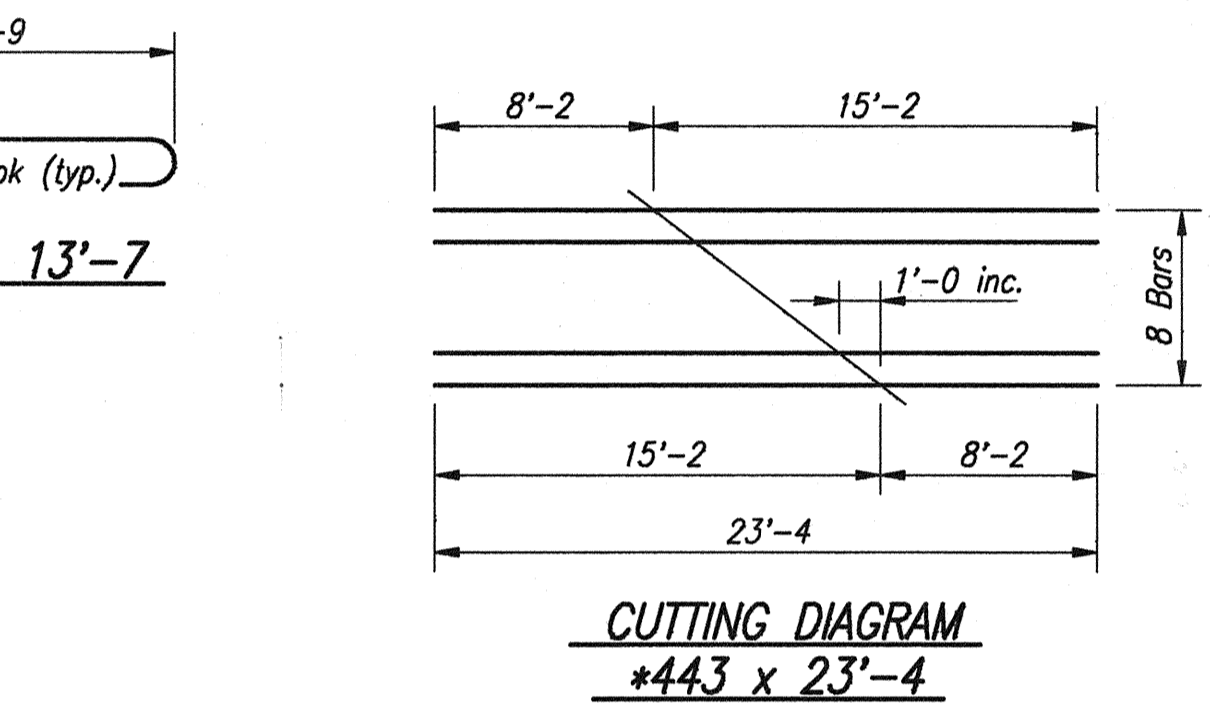
BENDING DIAGRAM
*443 x 23'-4"



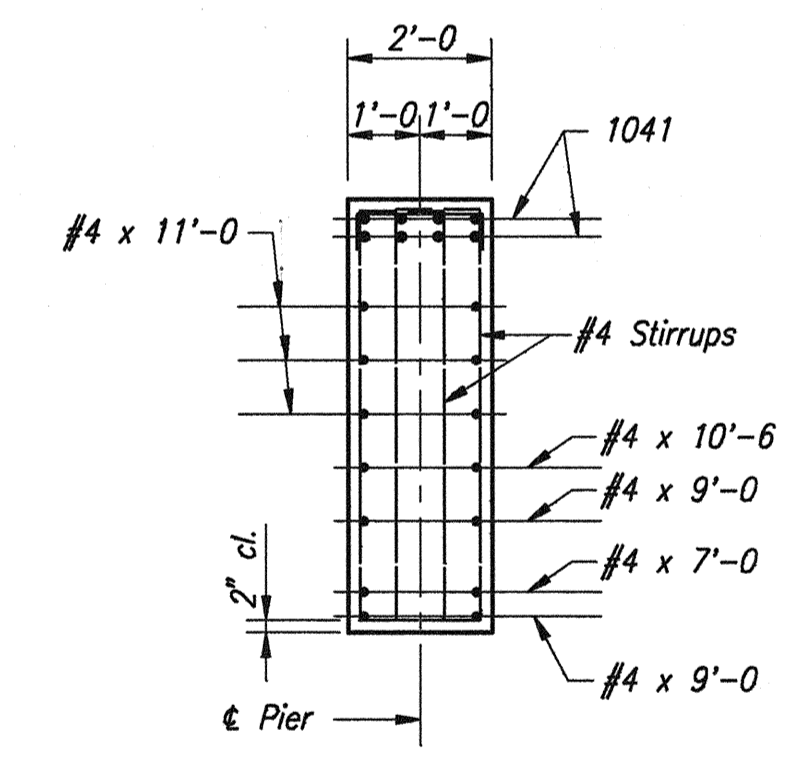
ELEVATION
Scale: 1/4" = 1'-0"



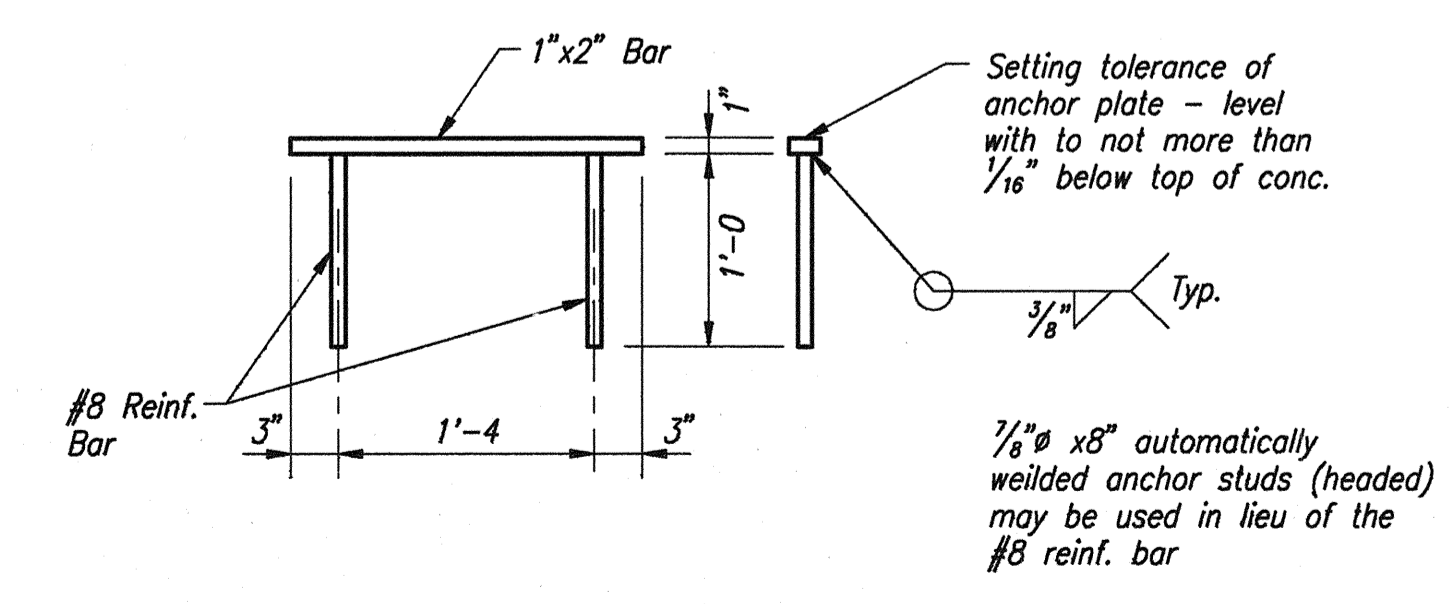
SECTION "A-A"
Scale: 1/4" = 1'-0"



CUTTING DIAGRAM
*443 x 23'-4"



SECTION "B-B"
Scale: 3/8" = 1'-0"



ANCHOR PLATE MK-AP2 DETAILS
Scale: 1" = 1'-0"

BILL OF MATERIALS
WB SHOWN; EB SAME

EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
1041	8	13'-7"	468
Total #10			
741	13	9'-8"	257
Total #7			
641	13	6'-0"	672
642	4	2'-8"	
#6	6	26'-9"	
#6	1	21'-3"	
#6	2	21'-0"	
#6	2	20'-0"	
#6	2	12'-3"	
#6	6	11'-9"	
Total #6			
541	21	5'-4"	
#5	9	6'-6"	
#5	42	6'-3"	
Total #5			
441	16	2'-8"	274
442	4	5'-4"	
*443	8	23'-4"	
#4	6	11'-0"	
#4	2	10'-6"	
#4	4	9'-0"	
#4	2	7'-0"	
#4	4	5'-6"	
Total #4			
Total Epoxy Coated Reinforcing			
CONCRETE			
Class "B" In Footing			5.4 Cys.
Class "A" In Substructure			15.7 Cys.
MISCELLANEOUS			
Field Drilled Holes In Concrete			19 Each
Anchor B MK-AP2			2 Each
14" Steel Encased Concrete Piles 4 @ 25 Lft.			100 Lft.

NOTES:
For Reinforcing Bar Notes, see Bridge Standard C1.
*- Indicates cutting diagram required.
** - Indicates Field Drilled Holes In Concrete, embed bars 6" with an approved anchor system. System must be capable of retaining anchoring material in a horizontal or inclined hole
Minimum Pullout:
#6 = 26,400 Lbs.
#5 = 18,600 Lbs.
For Removal Details, see Dwg. W3.
*** - Piles may be battered 1:10 max. in any direction, if necessary, to permit pile driving.

PIER NO. 2 DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

SCALE: As Noted
DATE: OCTOBER 17, 1995

Jerry D. Ritchie
REGISTERED PROFESSIONAL ENGINEER
No. 12868
STATE OF INDIANA

DRAWING: W8 OF W26 SHEET: 9 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: 1-74-14-2333D



DESIGNED:	M.W.C.	CHECKED:	J.D.R.
DRAWN:	D.W.B.	CHECKED:	J.D.R.
TRACED:		CHECKED:	

FOOTING PLAN
Scale: 1/4" = 1'-0"

REVISION 11/7/95 NOTE

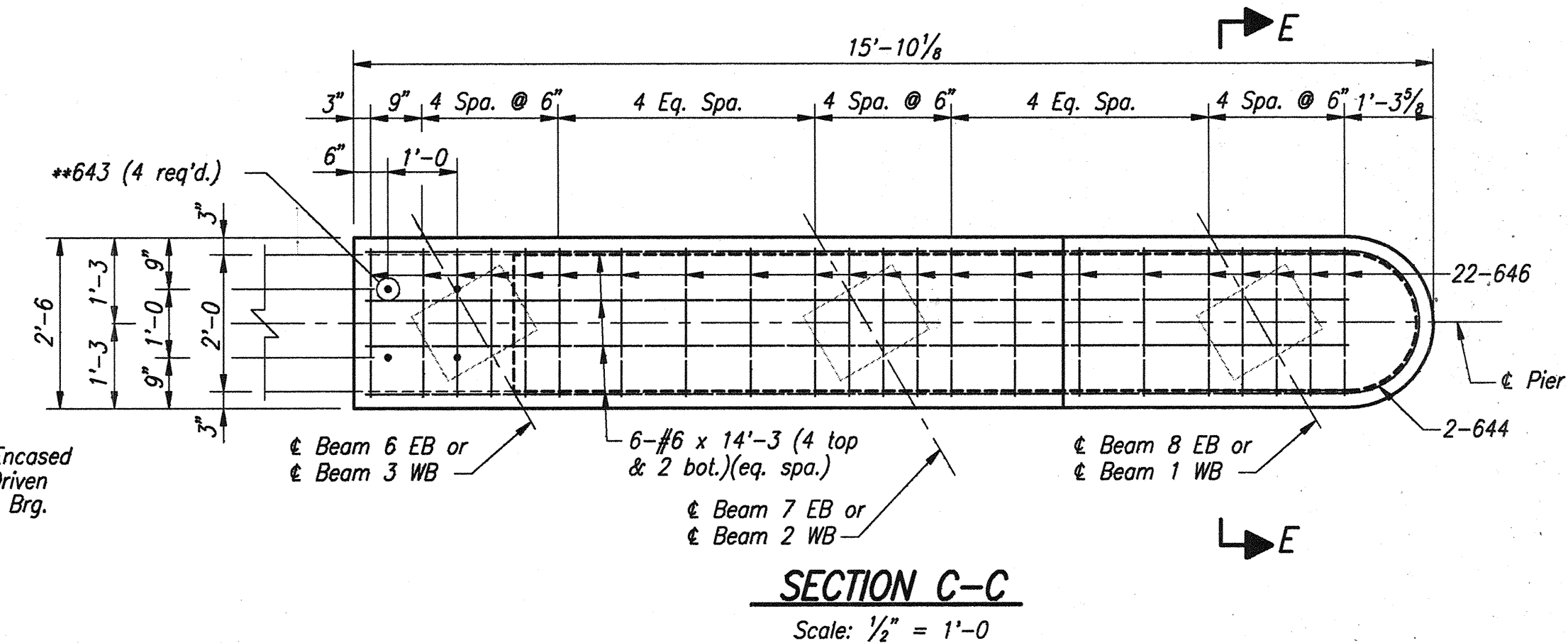
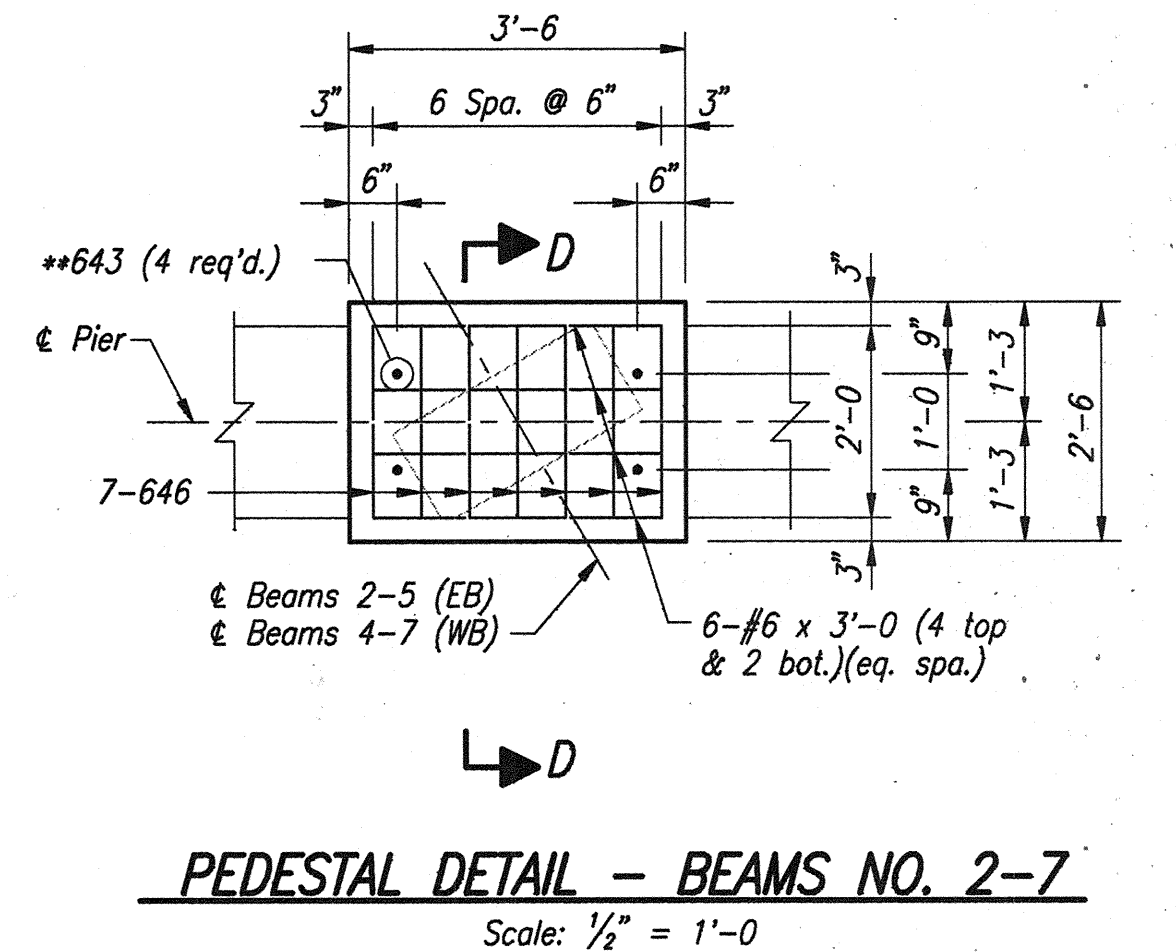
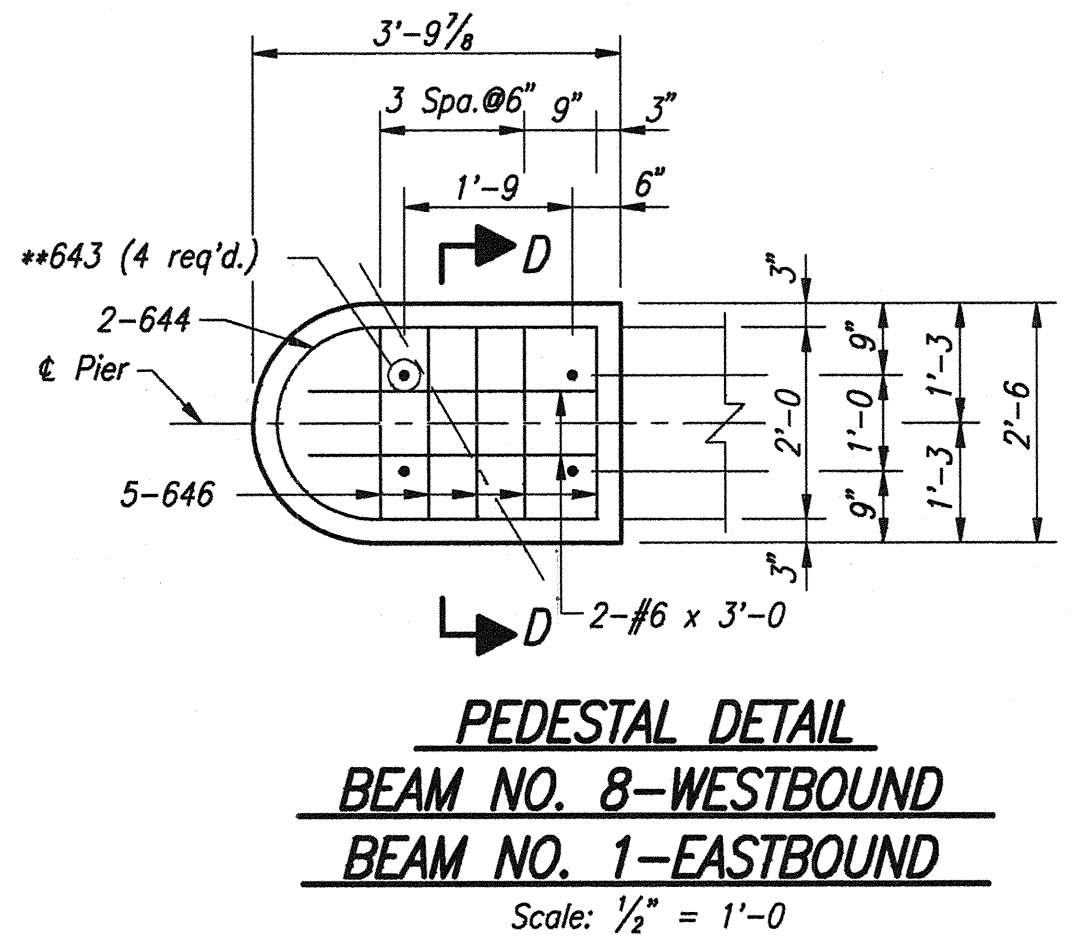
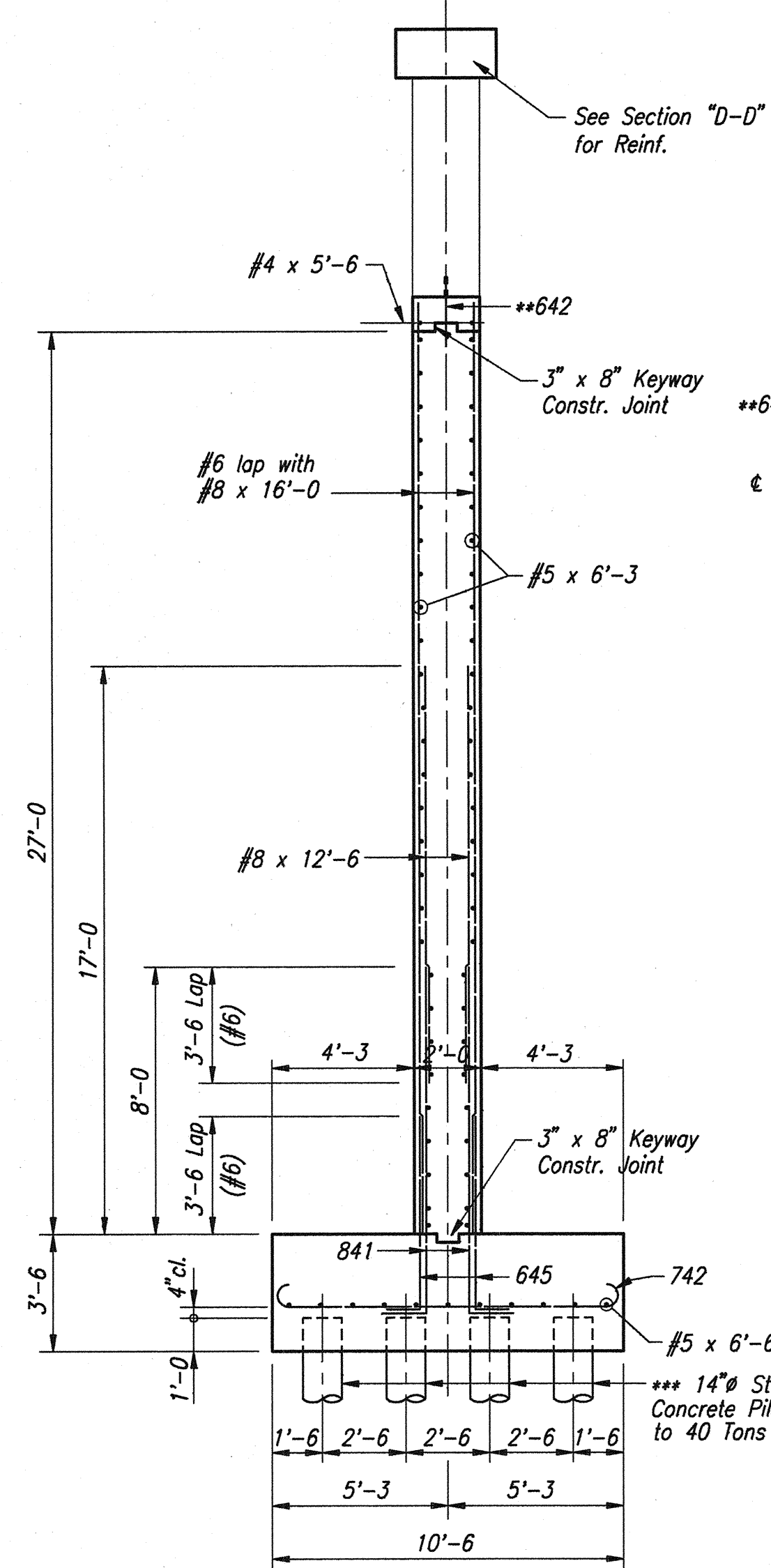
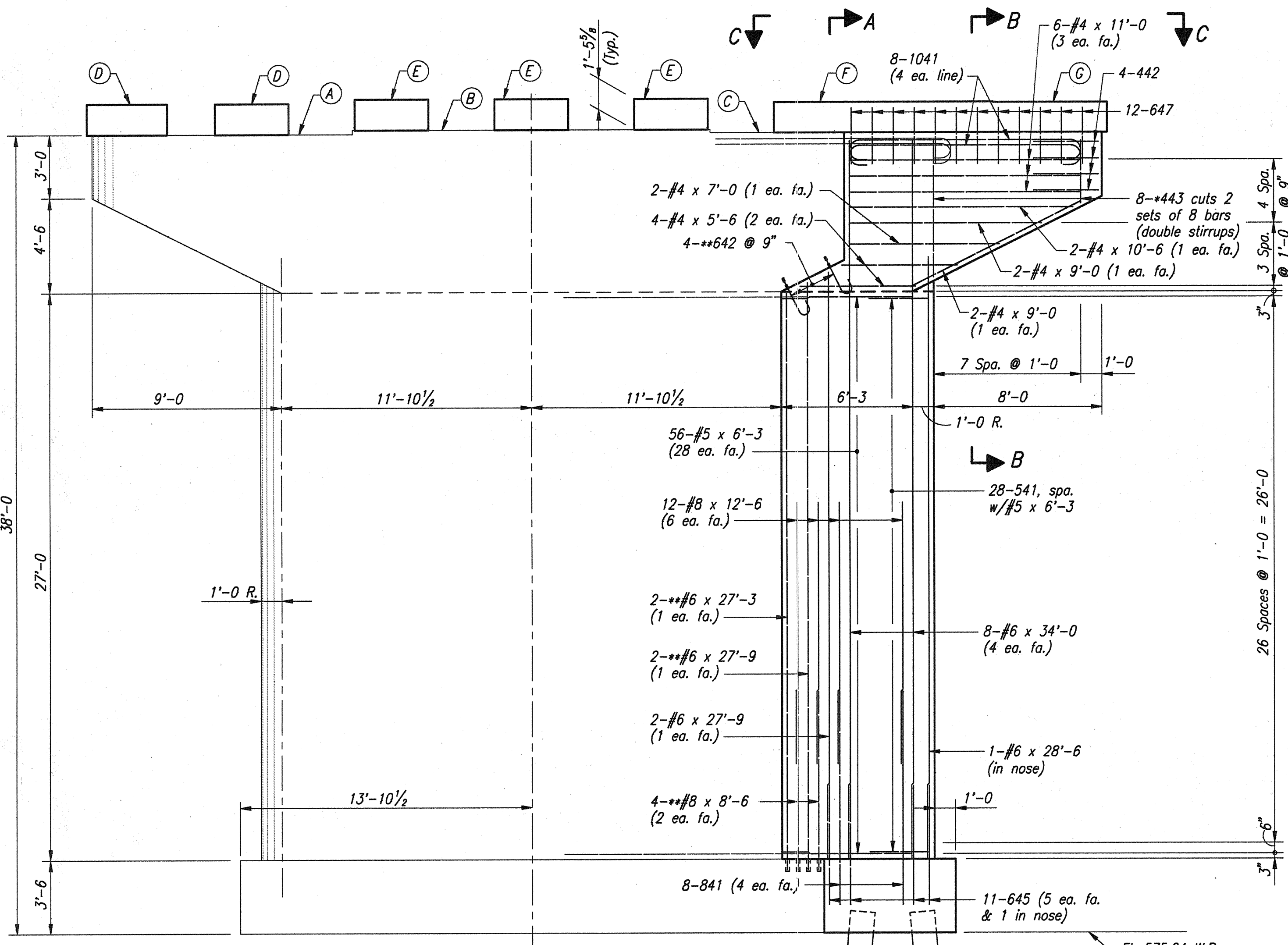
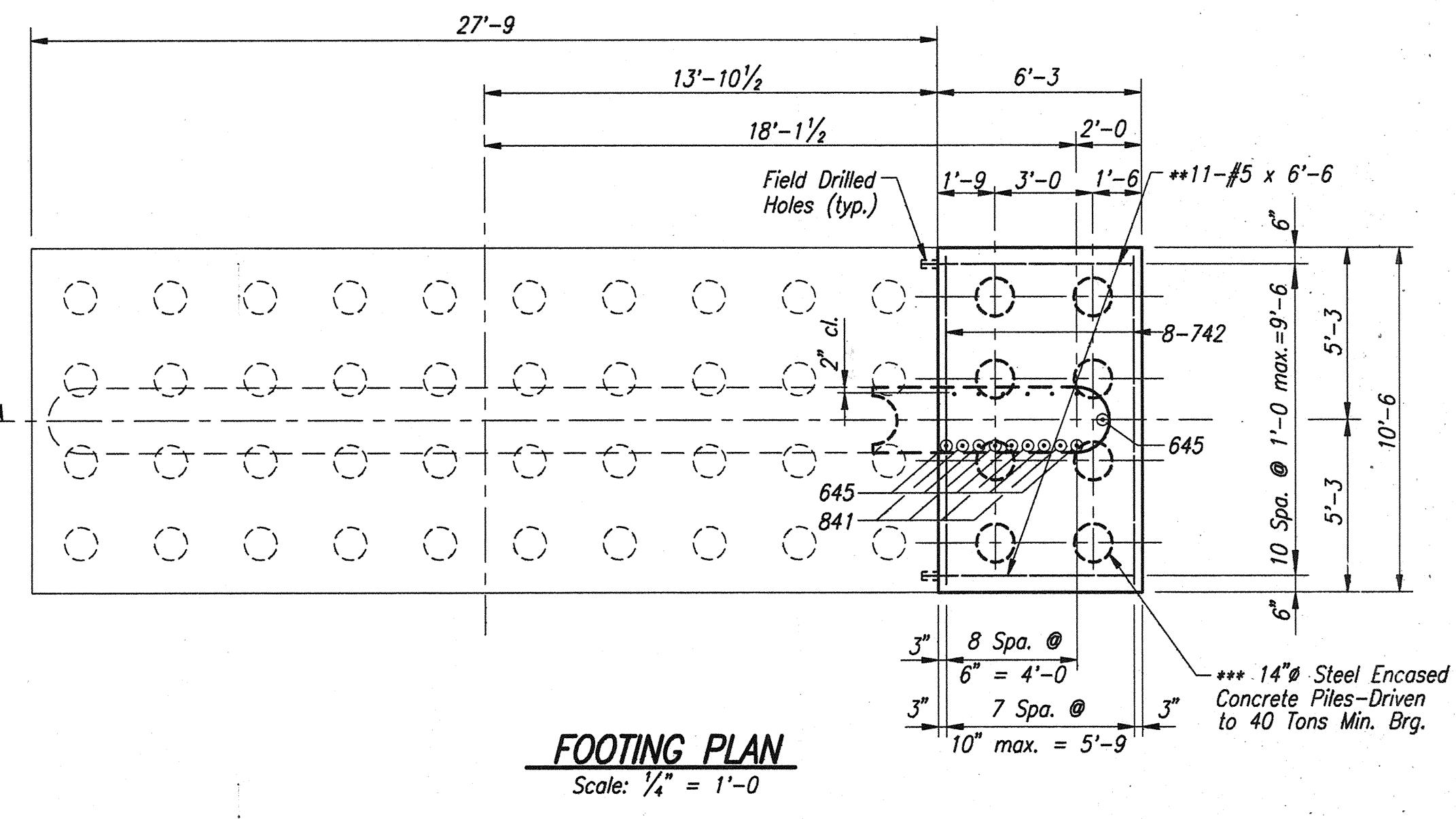
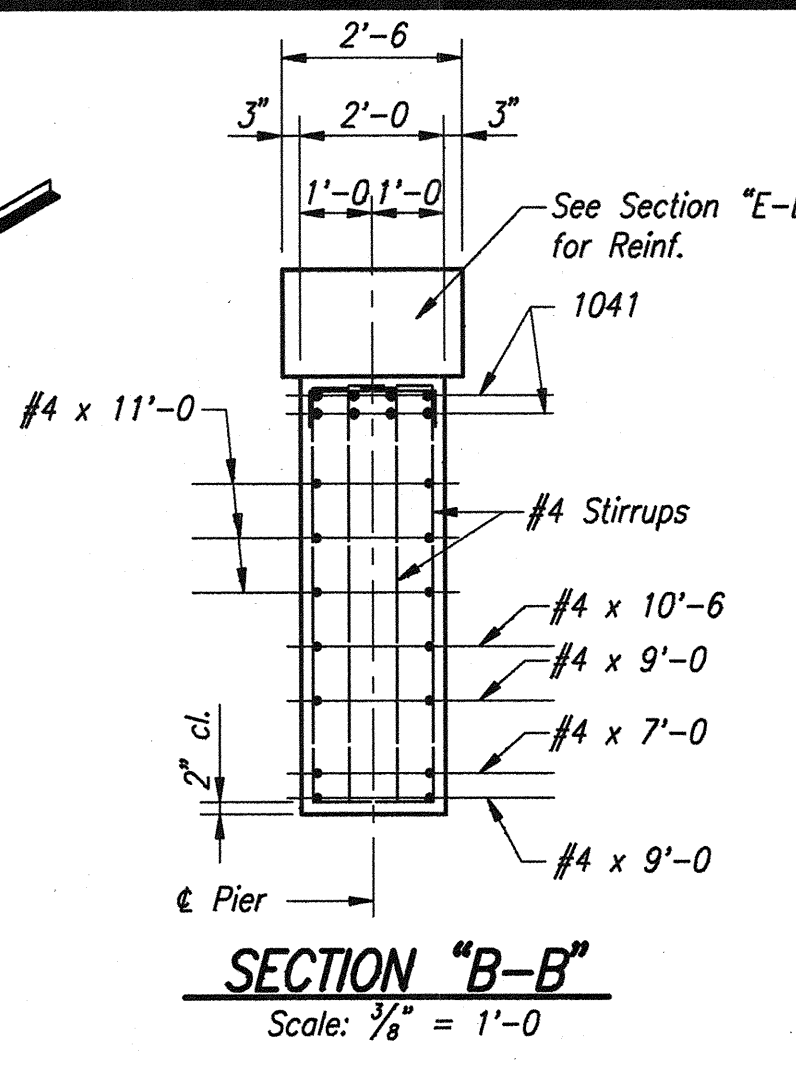
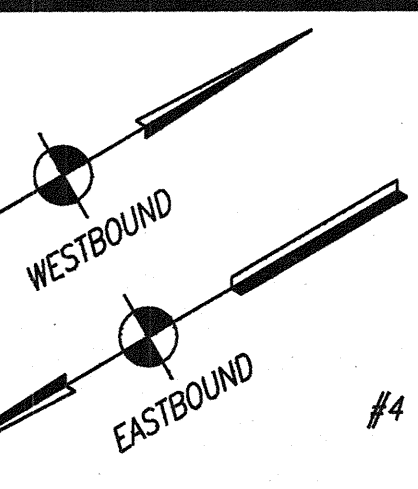
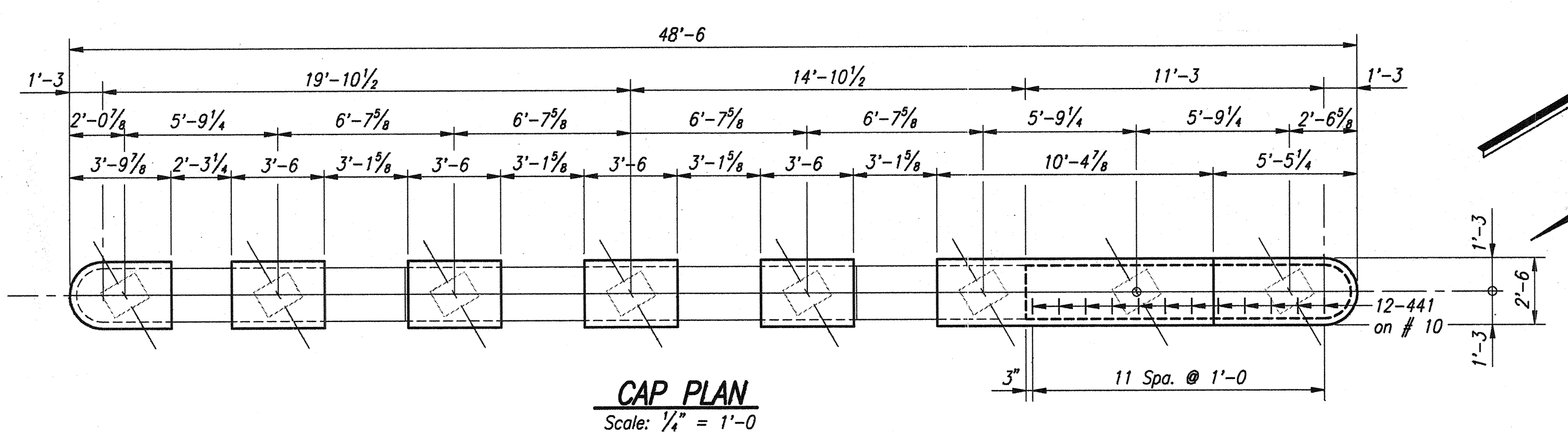
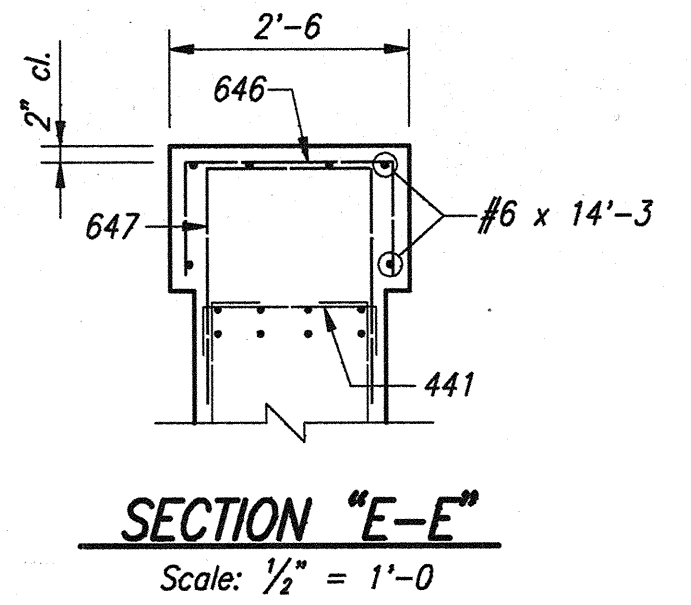
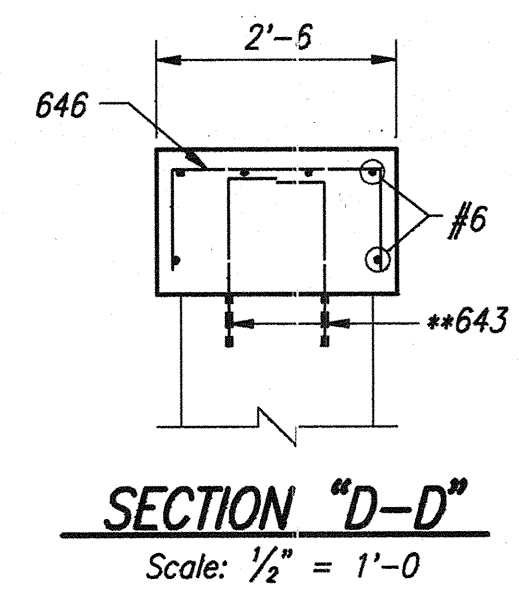


TABLE OF ELEVATIONS		
Point	Pier 3 WBL	Pier 3 EBL
A	613.240	613.140
B	613.420	613.265
C	613.295	613.080
D	614.700	614.600
E	614.875	614.720
F	614.750	614.540
G	614.750	614.505



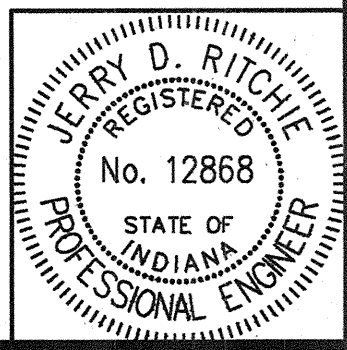
NOTES:
For Reinforcing Bar Notes, see Bridge Standard C1.
- Indicates cutting diagram required.
- - - Indicates Field Drilled Holes In Concrete, embed bars 6" min. with an approved anchor system. System must be capable of retaining anchoring material in a horizontal or inclined hole
Minimum Pullout:
#8 = 47,400 Lbs.
#6 = 26,400 Lbs.
#5 = 18,600 Lbs.
- - - Piles may be battered 1:10 max. in any direction, if necessary, to permit pile driving.
For Removal Details, see Dwg. W3.
For Bar Bending Details & Bill of Materials, see Dwg. W11.

PIER NO. 3 DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

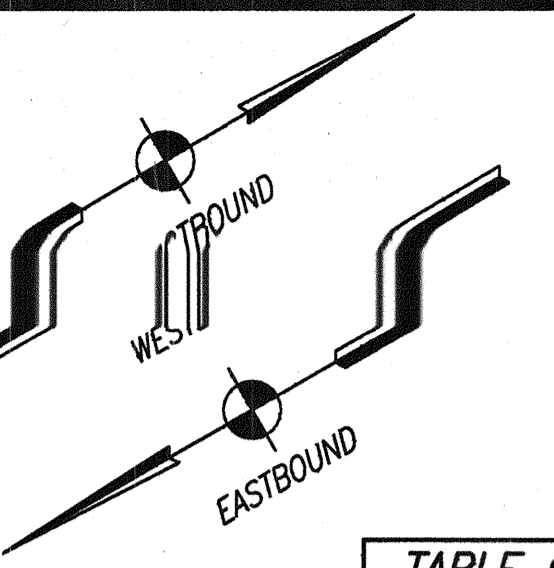
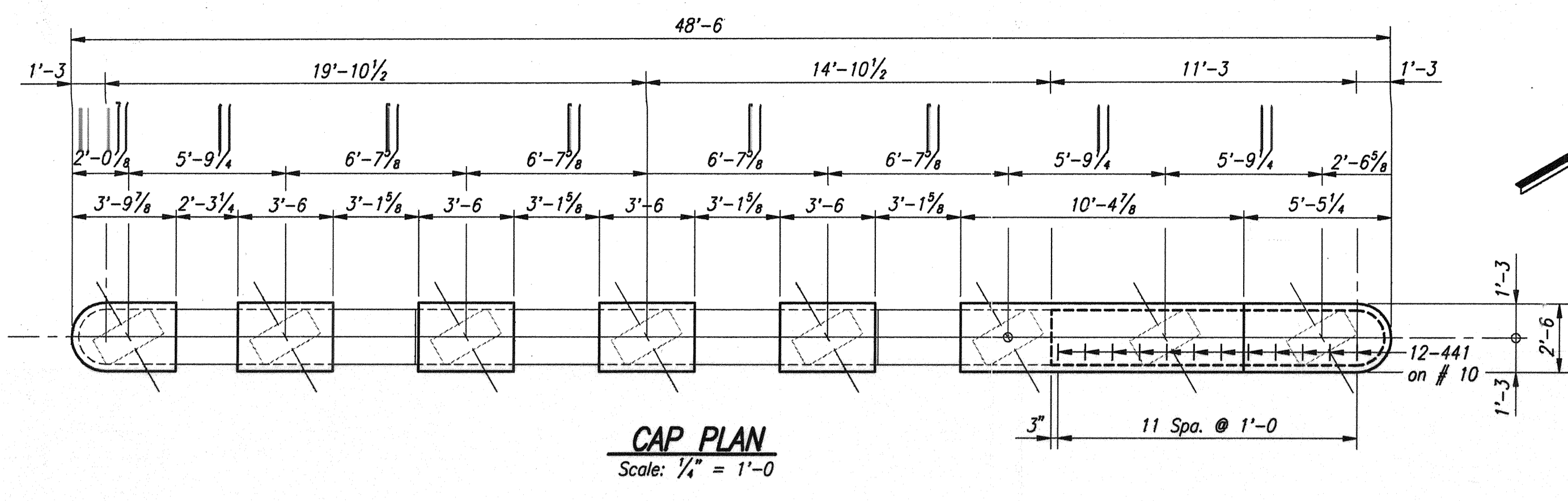
SCALE: As Noted
DATE: OCTOBER 17, 1995

Jerry D. Ritchie

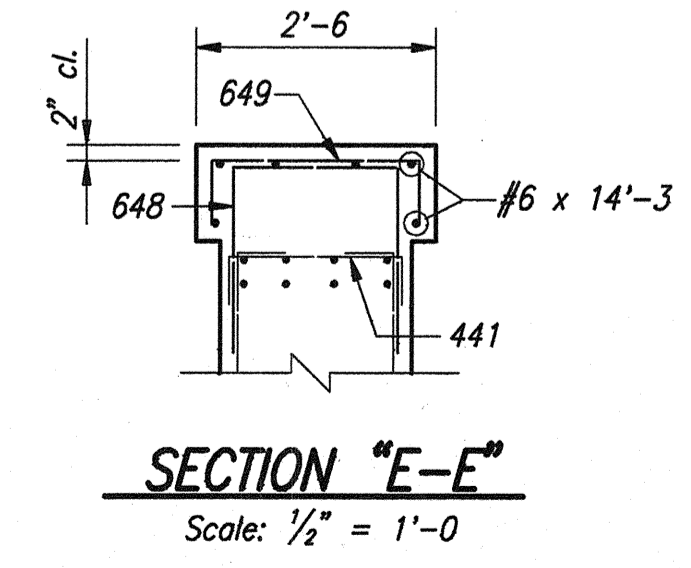
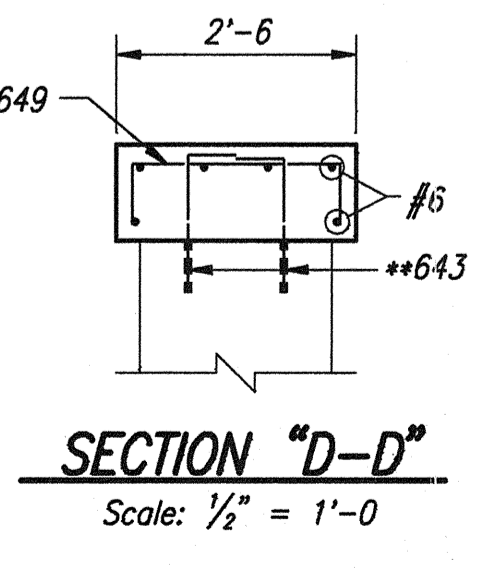
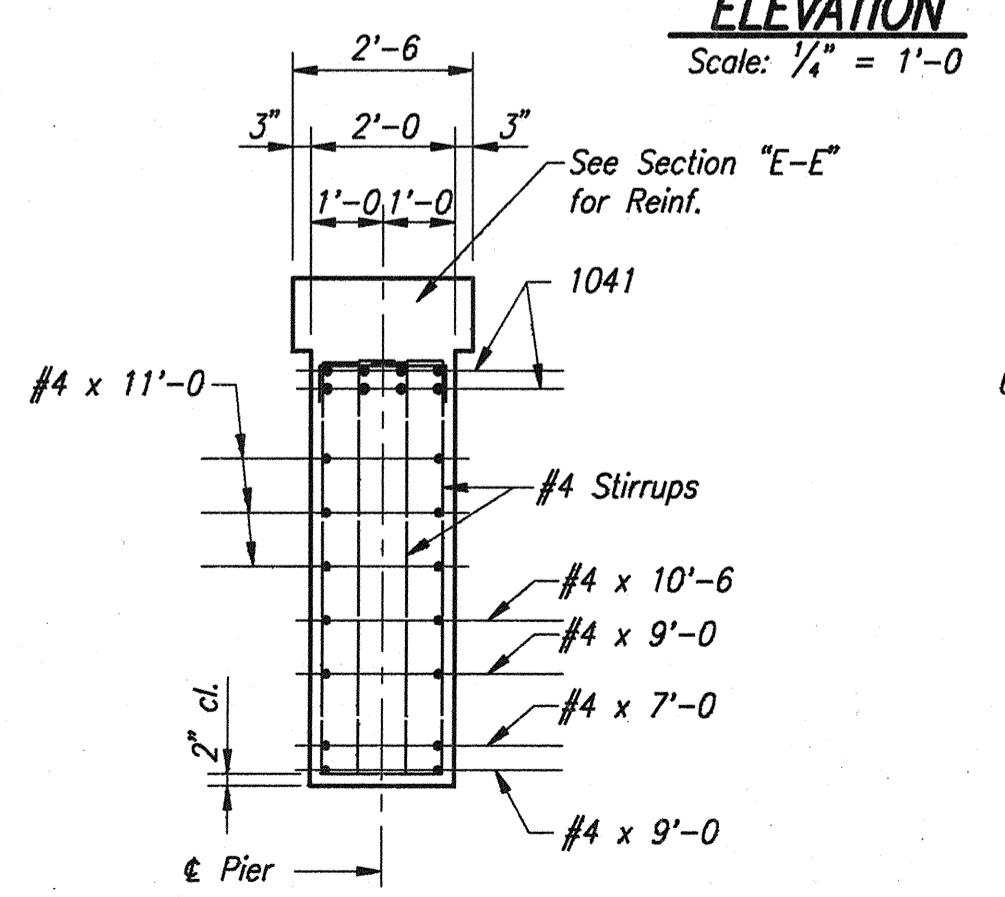
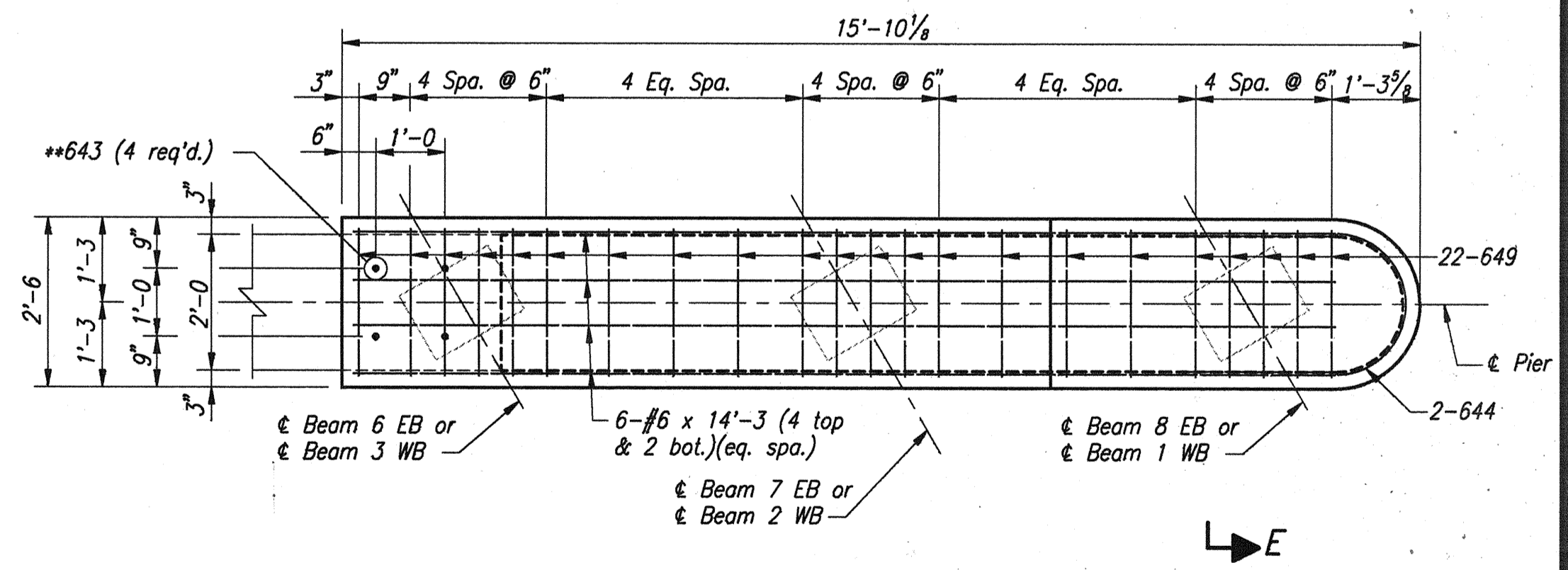
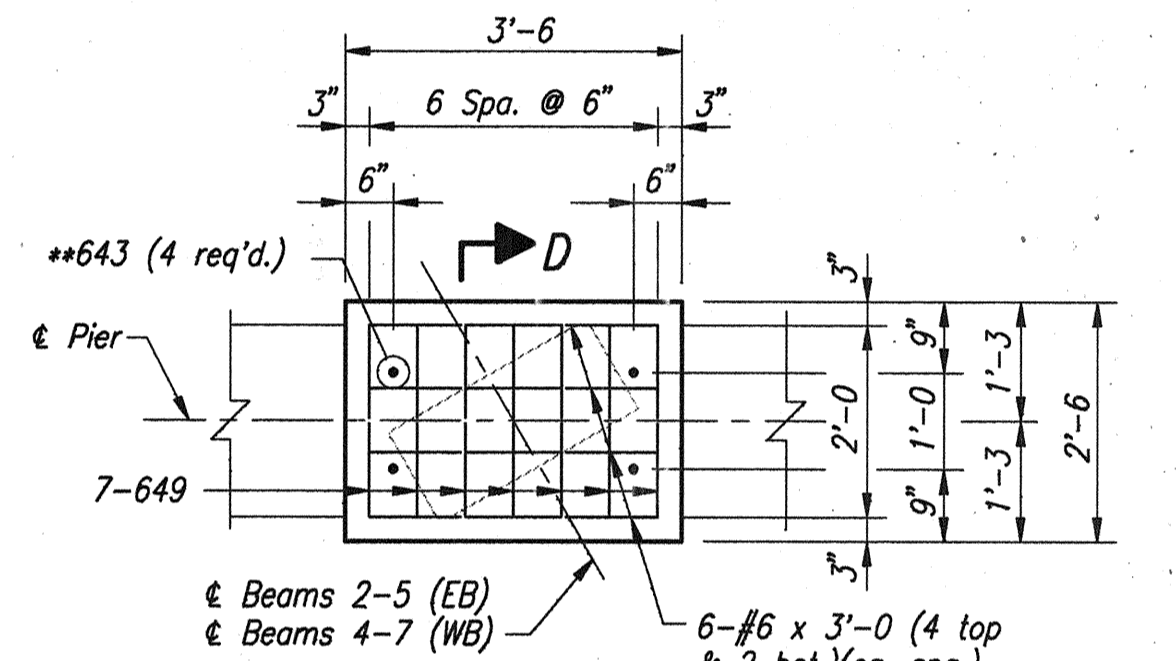
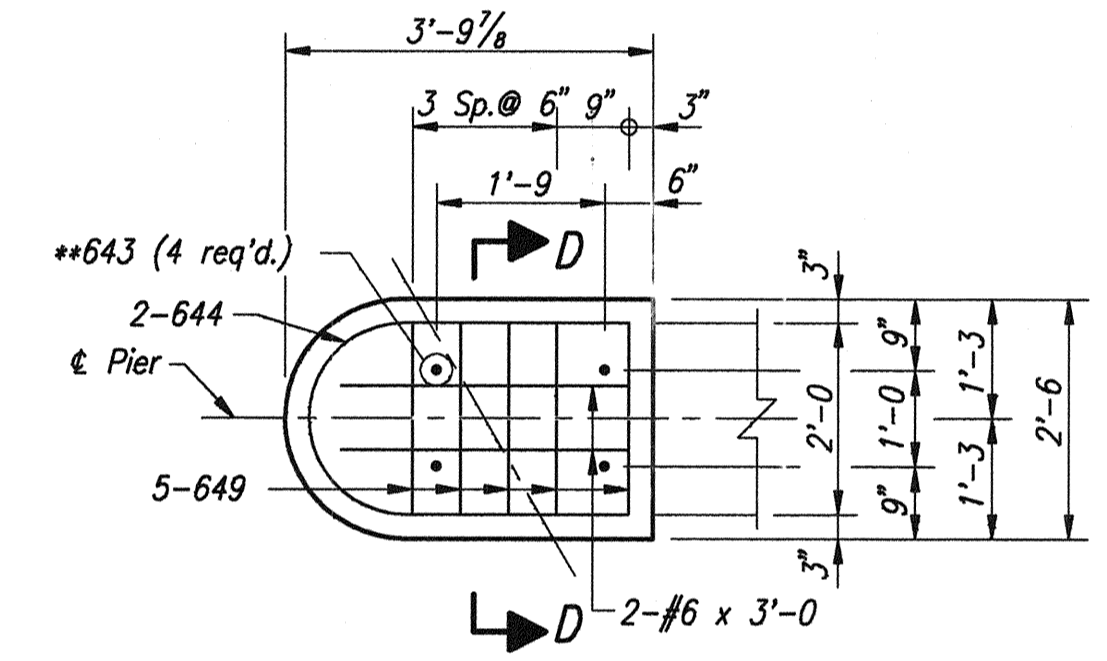
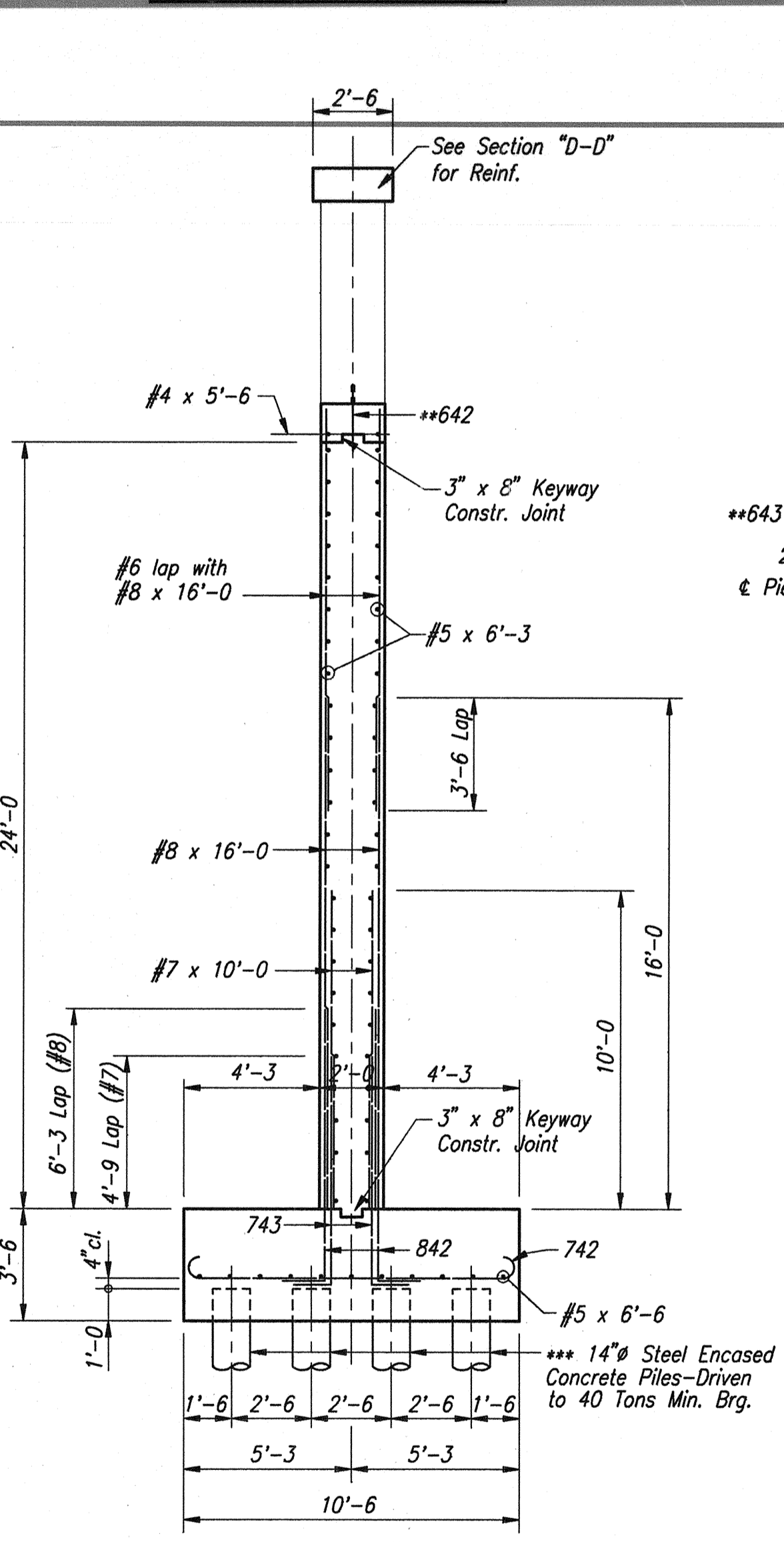
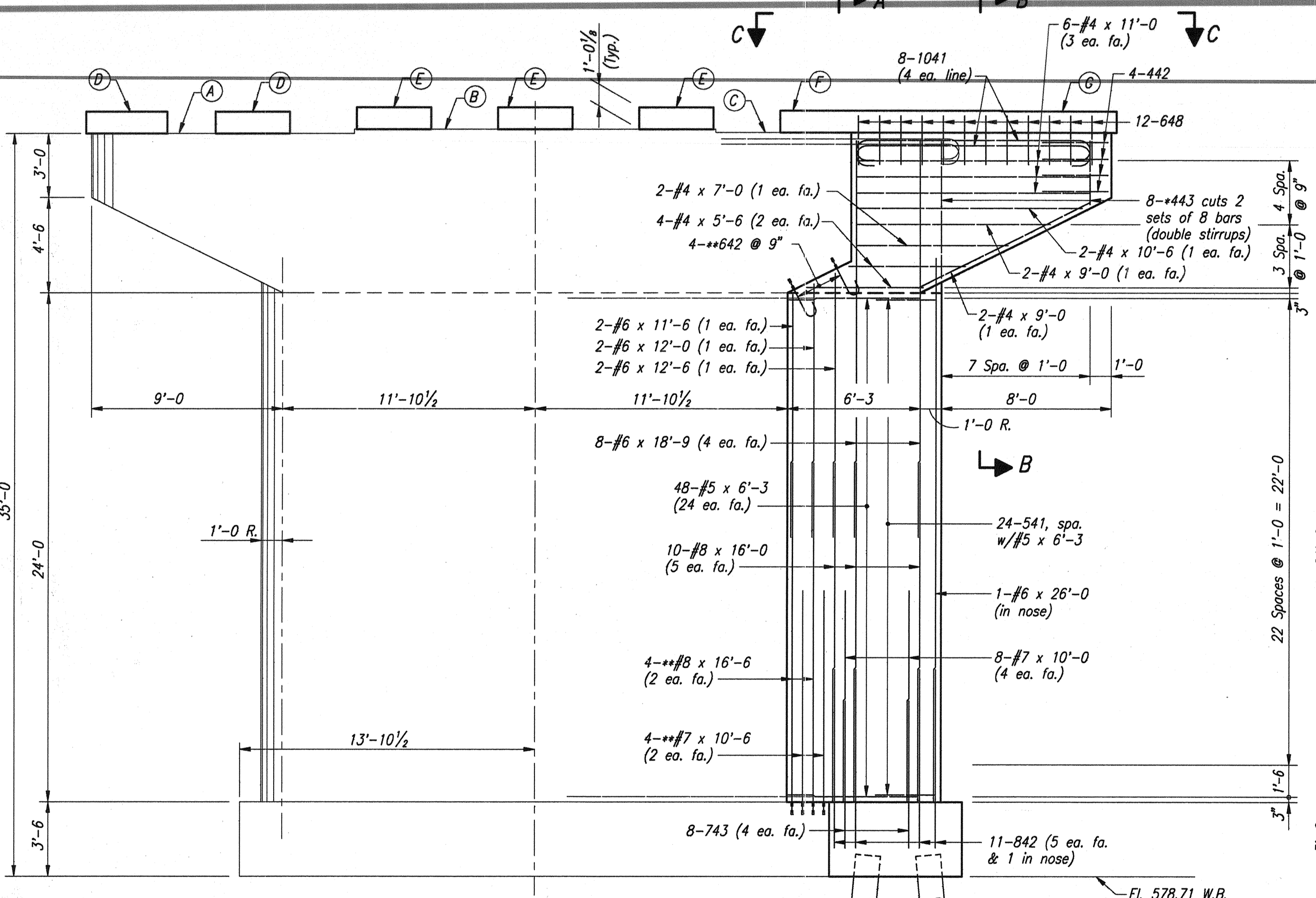
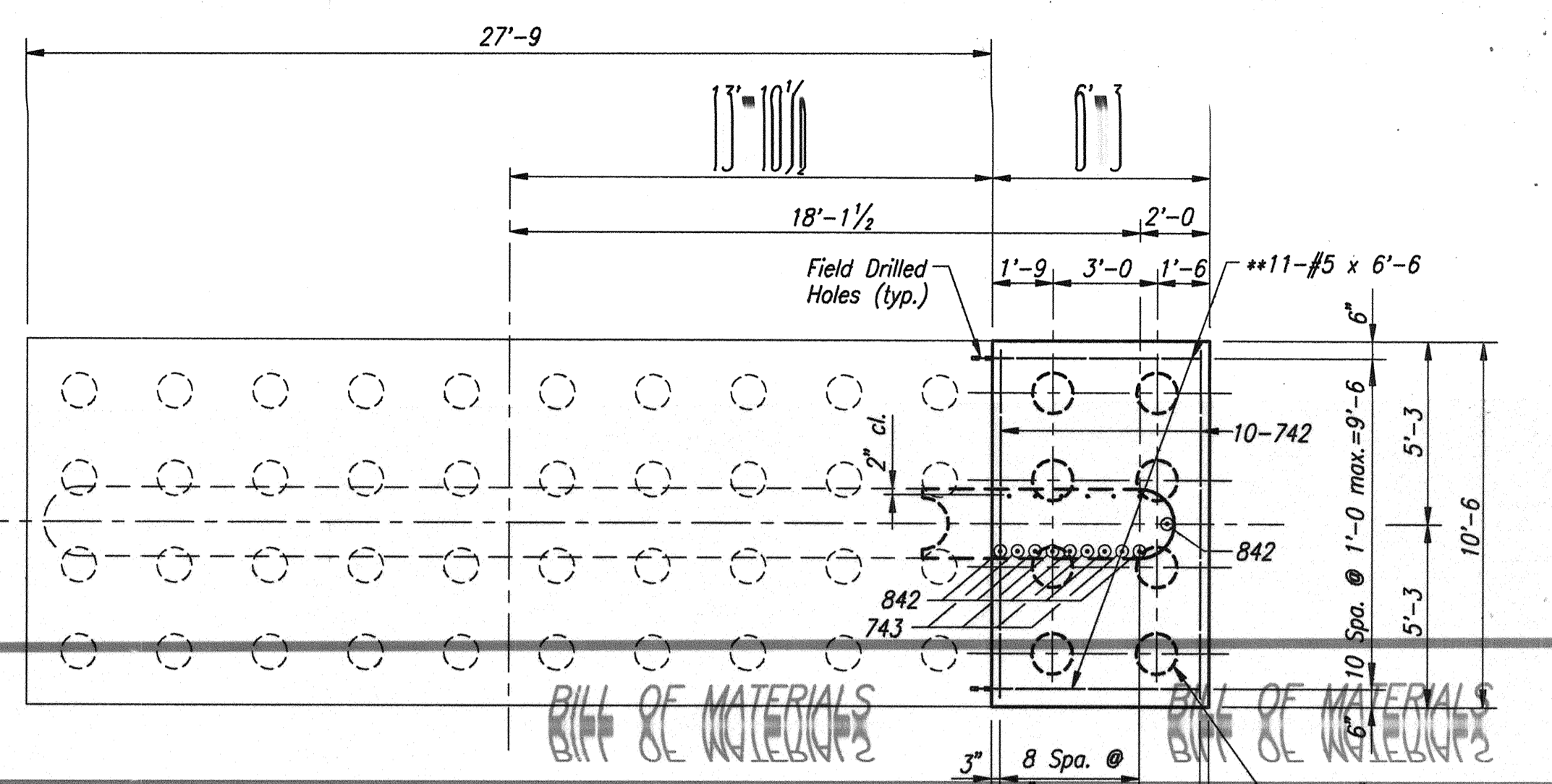
DRAWING: W9 OF W26 SHEET: 10 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: 1-74-14-2333D



REVISION 11/7/95 NOTE

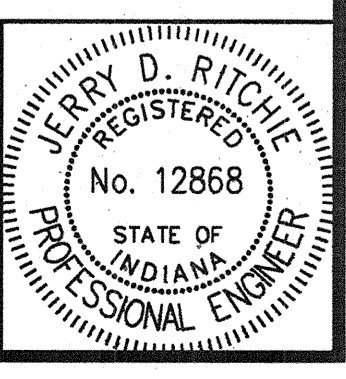


Point	Pier 4 WBL	Pier 4 EBL
A	613.710	613.650
B	613.915	613.800
C	613.760	613.595
D	614.730	614.670
E	614.940	614.820
F	614.780	614.615
G	614.755	614.570

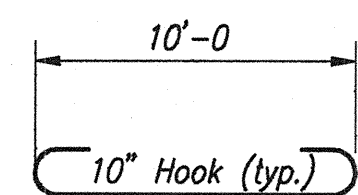


NOTES:
For Reinforcing Bar Notes, see Bridge Standard C1.
-- Indicates cutting diagram required.
-- Indicates Field Drilled Holes In Concrete, embed bars 6" min. with an approved anchor system. System must be capable of retaining anchoring material in a horizontal or inclined hole
Minimum Pullout:
#8 = 47,400 Lbs.
#7 = 36,000 Lbs.
#6 = 26,400 Lbs.
#5 = 18,600 Lbs.
--- Piles may be battered 1:10 max. in any direction, if necessary, to permit pile driving.
For Removal Details, see Dwg. W3.
For Bar Bending Details & Bill of Materials, see Dwg. W11.

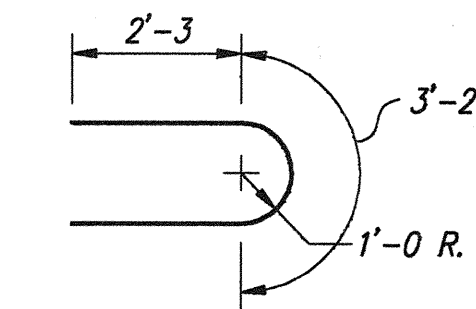
PIER NO. 4 DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY
SCALE: As Noted
DATE: OCTOBER 17, 1995
DRAWING: W10 OF W26 SHEET: 11 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: I-74-14-2333D



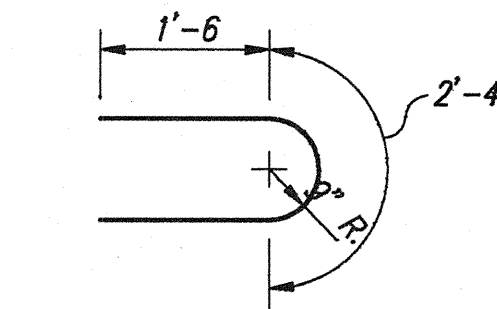
DESIGNED	M.W.C.	CHKD	J.D.R.
DRAWN	D.W.B.	CHKD	J.D.R.
TRACED		CHKD	



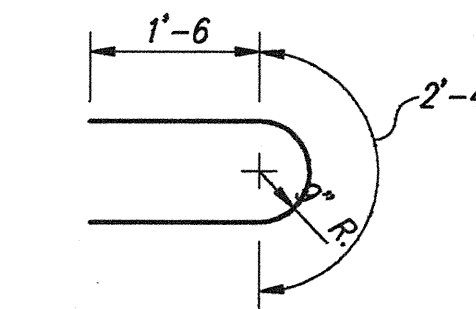
742 x 11'-8



644 x 7'-8

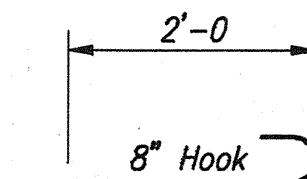


541 x 5'-4

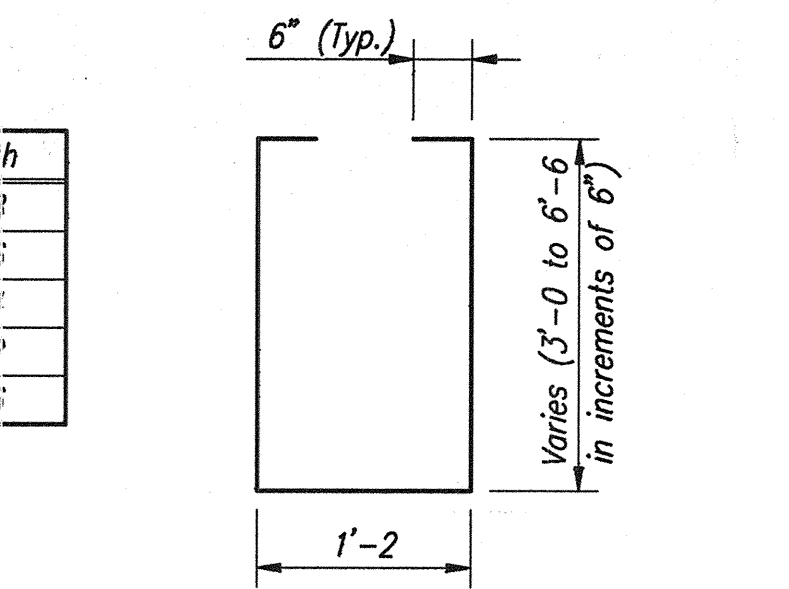


442 x 5'-4

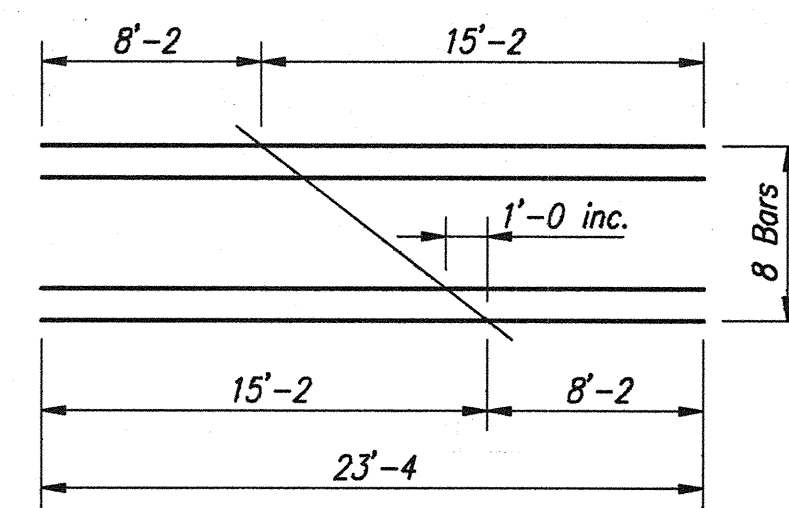
Mark	"a"	"b"	Length
441	1'-8	6"	2'-8
646	2'-2	1'-2	4'-6
647	1'-8	2'-10	7'-4
648	1'-8	2'-3	6'-2
649	2'-2	8"	3'-6



642 x 2'-8

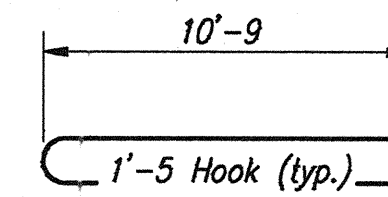
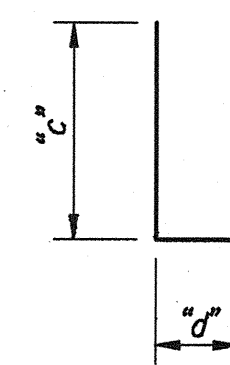


BENDING DIAGRAM
*443 x 23'-4



CUTTING DIAGRAM
*443 x 23'-4

Mark	"c"	"d"	Length
643	1'-9	1'-0	2'-9
645	5'-8	1'-0	6'-8
743	6'-11	1'-2	8'-1
841	10'-2	1'-4	11'-6
842	8'-5	1'-4	9'-9



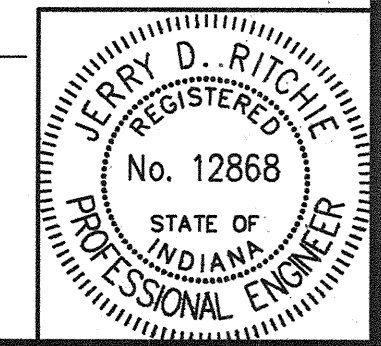
1041 x 13'-7

BILL OF MATERIALS PIER NO. 3 (WBL Shown; EBL Same)			
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
1041	8	13'-7	
Total #10			468
841	8	11'-6	
#8	12	12'-6	
#8	4	8'-6	
Total #8			737
742	8	11'-8	
Total #7			191
642	4	2'-8	
643	24	2'-9	
644	4	7'-8	
645	11	6'-8	
646	55	4'-6	
647	12	7'-4	
#6	8	34'-0	
#6	1	28'-6	
#6	4	27'-9	
#6	2	27'-3	
#6	6	14'-3	
#6	26	3'-0	
Total #6			1,721
541	28	5'-4	
#5	11	6'-6	
#5	56	6'-3	
Total #5			595
441	12	2'-8	
442	4	5'-4	
*443	8	23'-4	
#4	6	11'-0	
#4	2	10'-6	
#4	4	9'-0	
#4	2	7'-0	
#4	4	5'-6	
Total #4			267
Total Epoxy Coated Reinforcing			3,979
CONCRETE			
Class "B" In Footing		8.5 Cys.	
Class "A" In Substructure		24.0 Cys.	
MISCELLANEOUS			
Field Drilled Holes In Concrete		47 Each	
14"Ø Steel Encased Concrete Piles 8 @ 25 Lft.		200 Lft.	

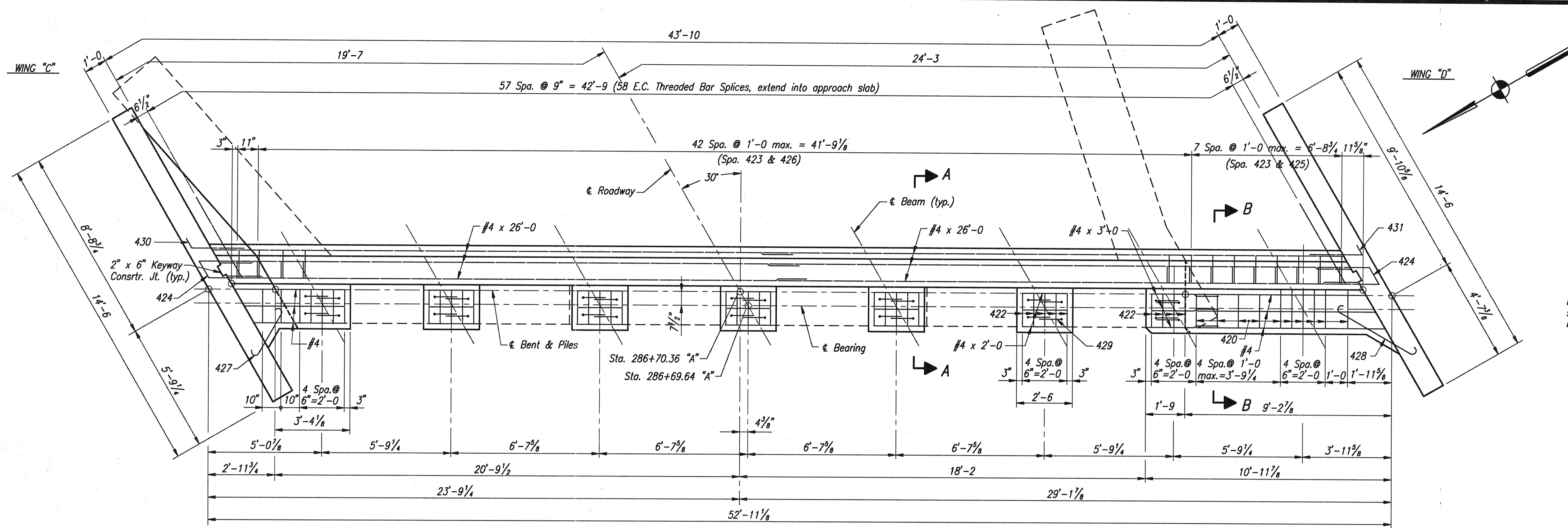
BILL OF MATERIALS PIER NO. 4 (WBL Shown; EBL Same)			
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
1041	8	13'-7	
Total #10			468
842	11	9'-9	
#8	4	16'-6	
#8	10	16'-0	
Total #8			890
742	10	11'-8	
743	8	8'-1	
#7	4	10'-6	
#7	8	10'-0	
Total #7			620
642	4	2'-8	
643	24	2'-9	
644	4	7'-8	
648	12	6'-2	
649	55	3'-6	
#6	1	26'-0	
#6	8	18'-9	
#6	6	14'-3	
#6	2	12'-6	
#6	2	12'-0	
#6	2	11'-6	
#6	26	3'-0	
Total #6			1,180
541	24	5'-4	
#5	11	6'-6	
#5	48	6'-3	
Total #5			521
441	12	2'-8	
442	4	5'-4	
*443	16	23'-4	
#4	6	11'-0	
#4	2	10'-6	
#4	4	9'-0	
#4	2	7'-0	
#4	4	5'-6	
Total #4			391
Total Epoxy Coated Reinforcing			4,070
CONCRETE			
Class "B" In Footing		8.5 Cys.	
Class "A" In Substructure		21.1 Cys.	
MISCELLANEOUS			
Field Drilled Holes In Concrete		47 Each	
14"Ø Steel Encased Concrete Piles 8 @ 25 Lft.		200 Lft.	

NOTES:
For Reinforcing Bar Notes, see Bridge Standard C1.
* - Indicates cutting diagram required.

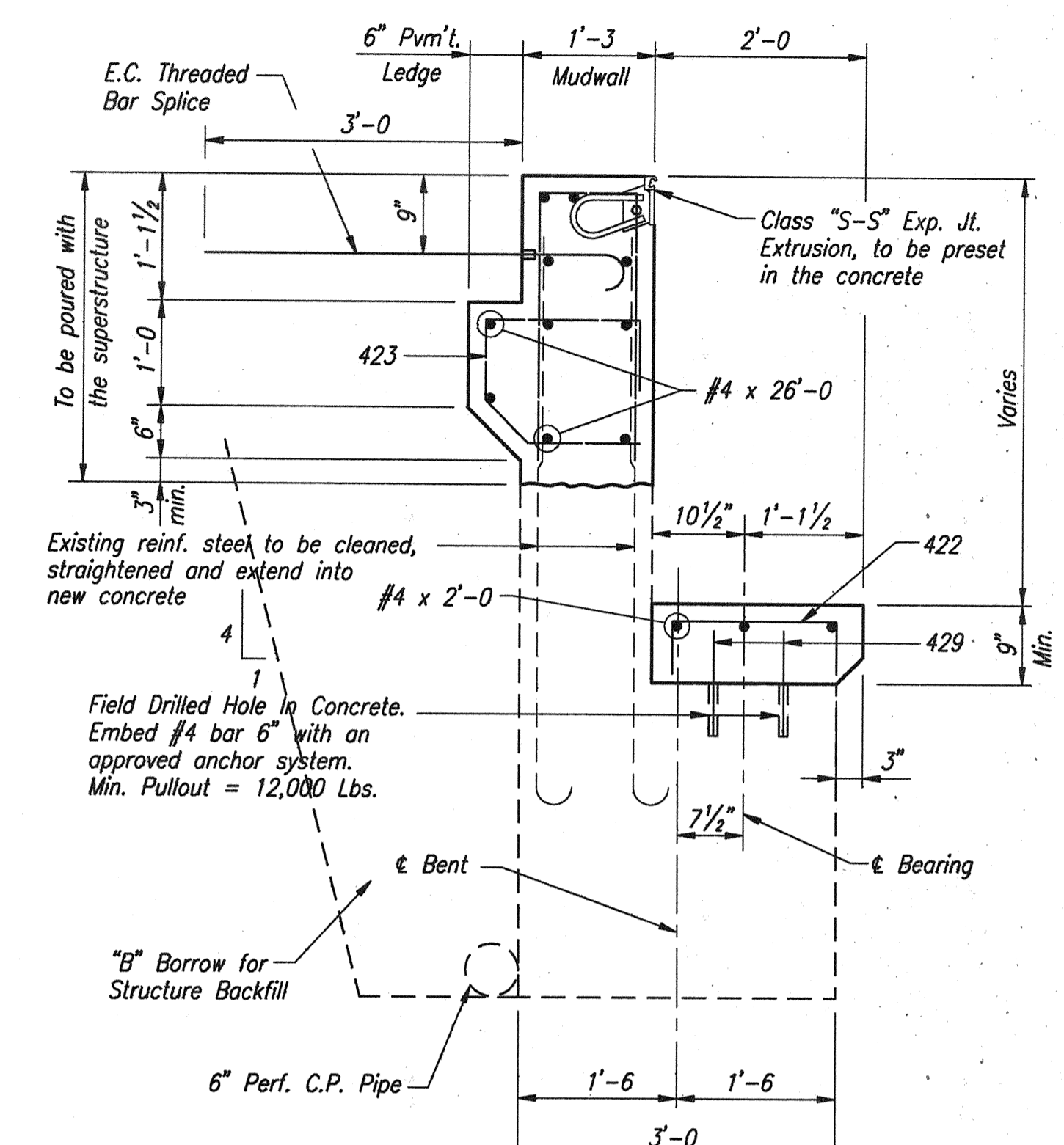
PIER NOS. 3 & 4 BILL OF MATERIALS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY
SCALE: As Noted
DATE: OCTOBER 17, 1995
Jerry D. Ritchie
DRAWING: W11 OF W26 SHEET: 12 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: 1-74-14-2333D



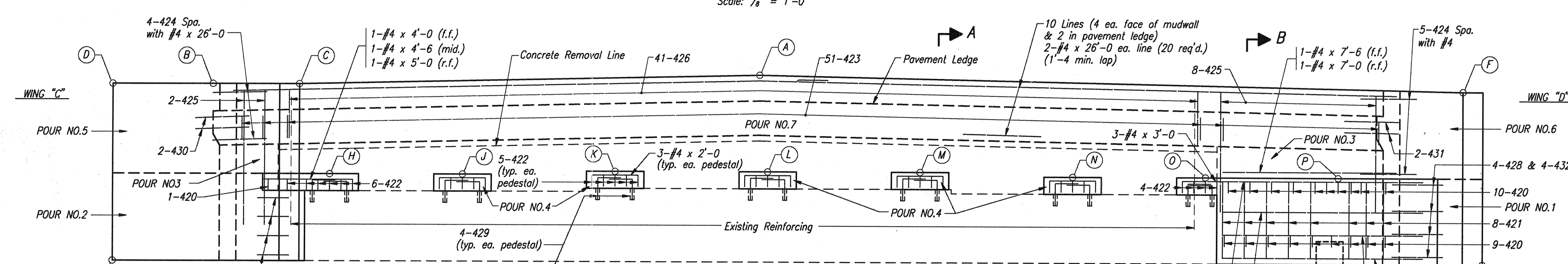
DESIGNED	M.W.C.	CHKD.	
DRAWN	D.W.B.	CHKD.	J.D.R.
TRACED		CHKD.	



PLAN
Scale: 3/8" = 1'-0"

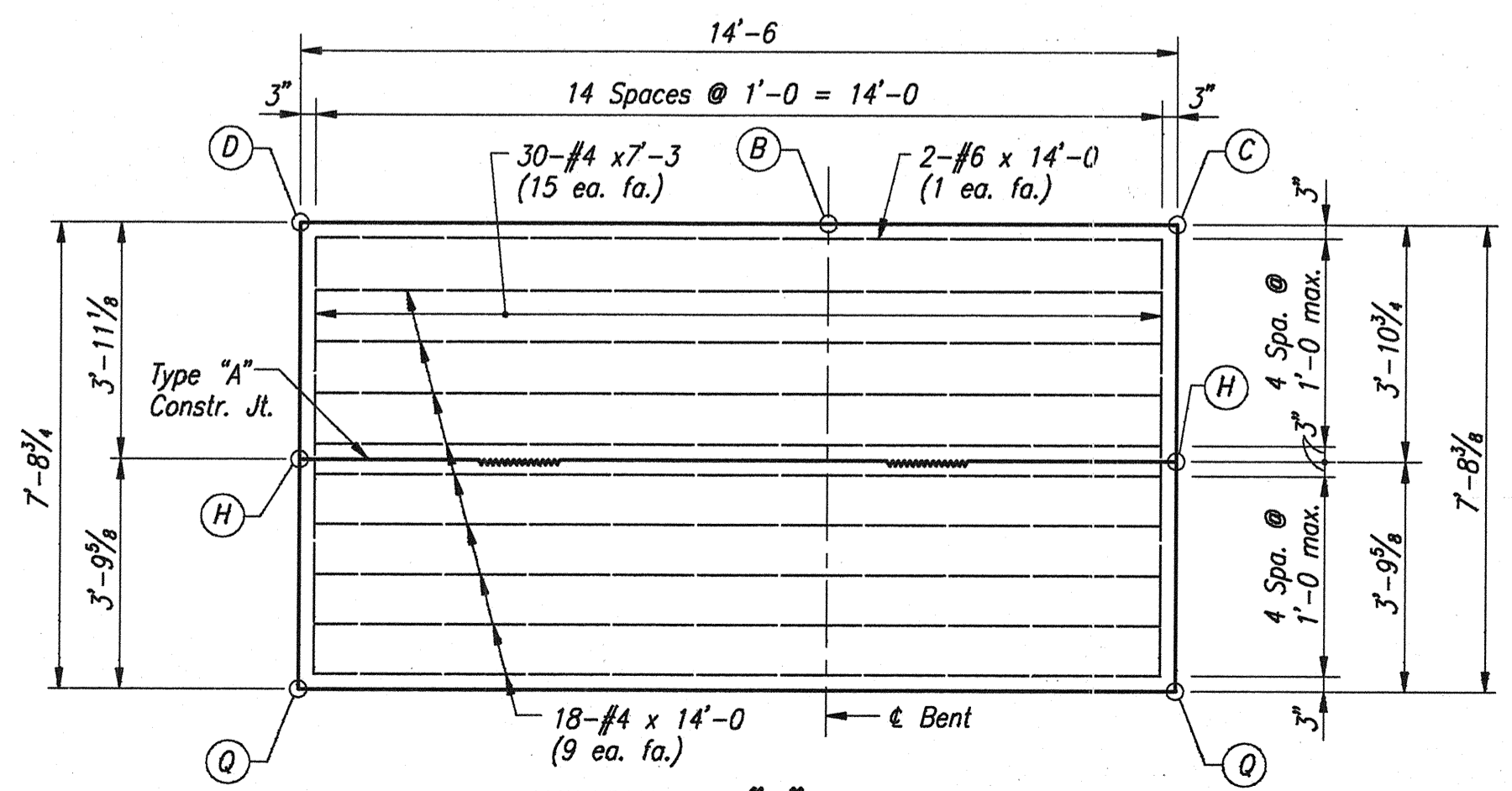


SECTION "A-A"
Scale: 3/4" = 1'-0"

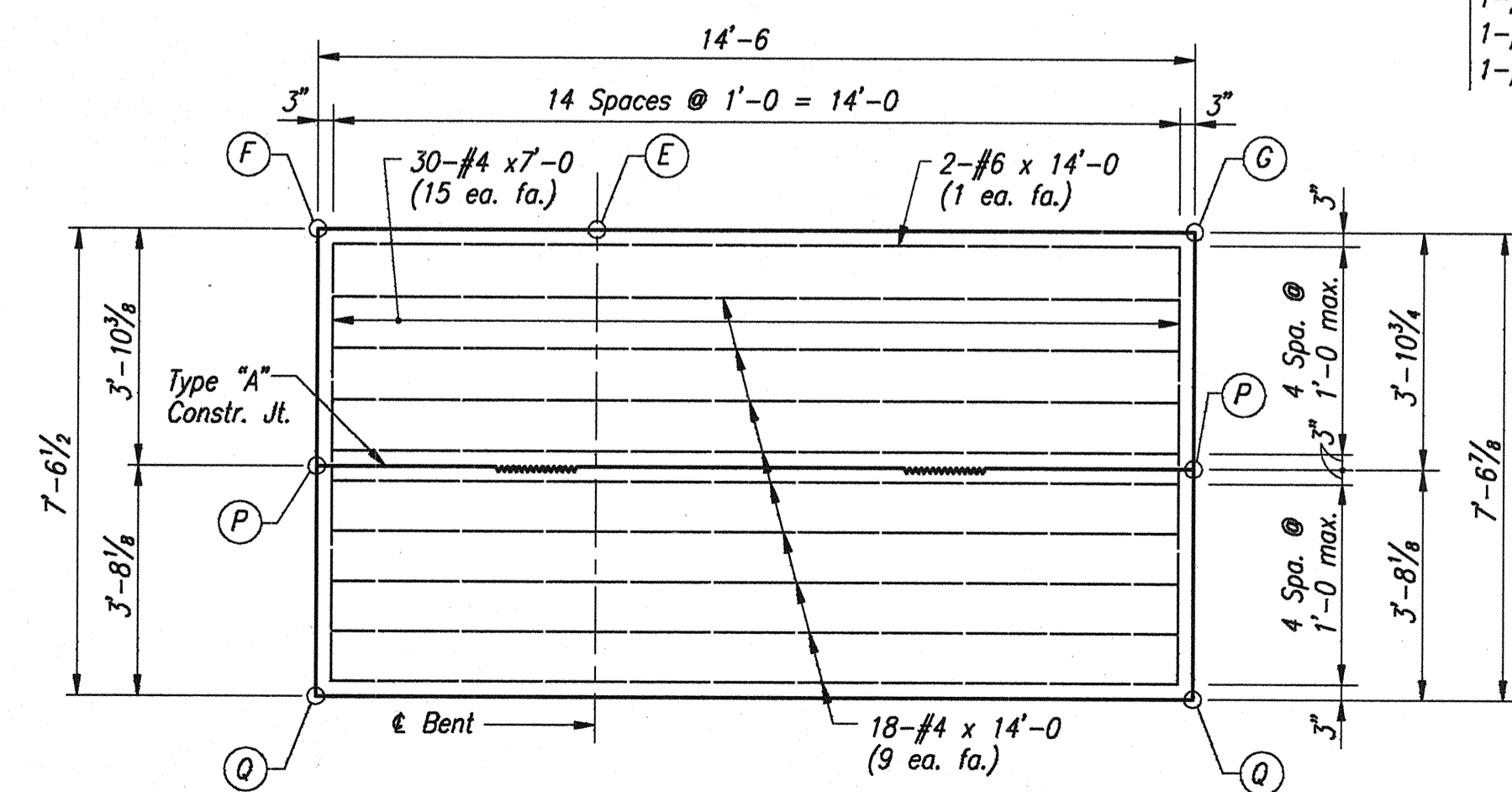


ELEVATION
Scale: 3/8" = 1'-0"

TABLE OF ELEVATIONS			
POINT	ELEVATION	POINT	ELEVATION
A	619.385	K	615.260
B	619.015	L	615.295
C	619.005	M	615.245
D	619.035	N	615.160
E	618.865	O	615.065
F	618.855	P	614.990
G	618.885	Q	611.310
H	615.110	Top of Pile	612.310
J	615.190		



WINGWALL "C" DETAILS
Scale: 3/8" = 1'-0"



WINGWALL "D" DETAILS
Scale: 3/8" = 1'-0"

NOTES:
For Reinforcing Bar Notes, see Br. Std. C1.
For Type "A" Constr. Jt., see Br. Std. C3.
For Additional End Bent Details, see Dwg. W12.

BENT NO. 5 EASTBOUND DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

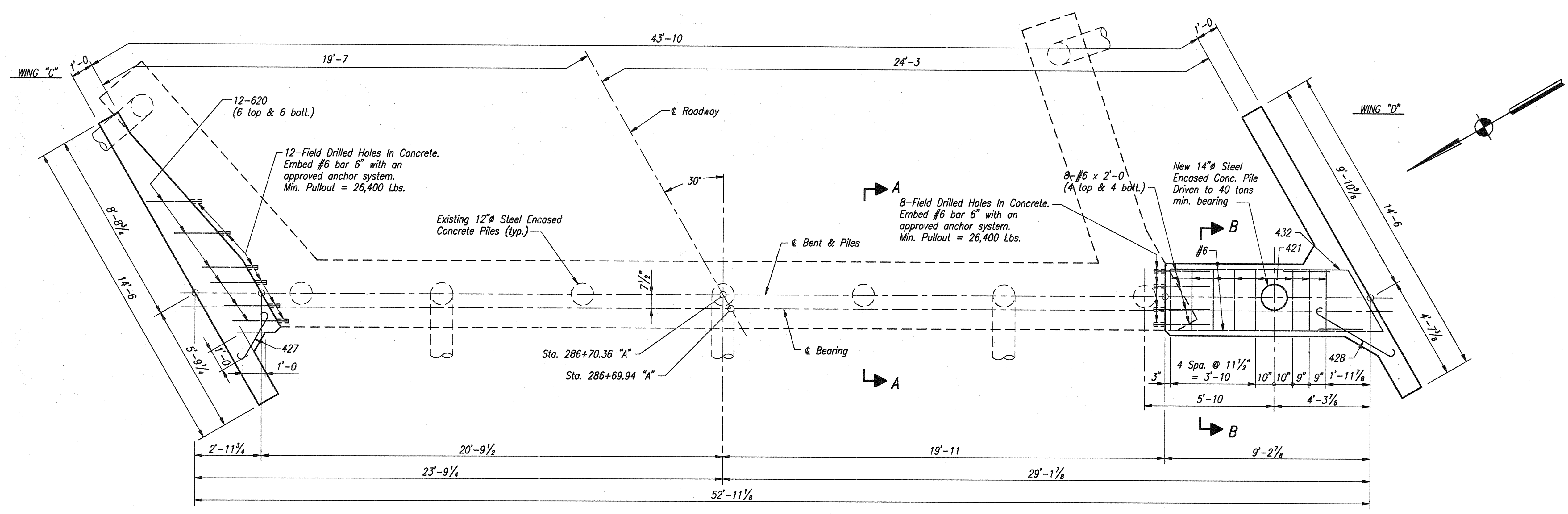
SCALE: As Noted
DATE: OCTOBER 17, 1995

Jerry D. Ritchie

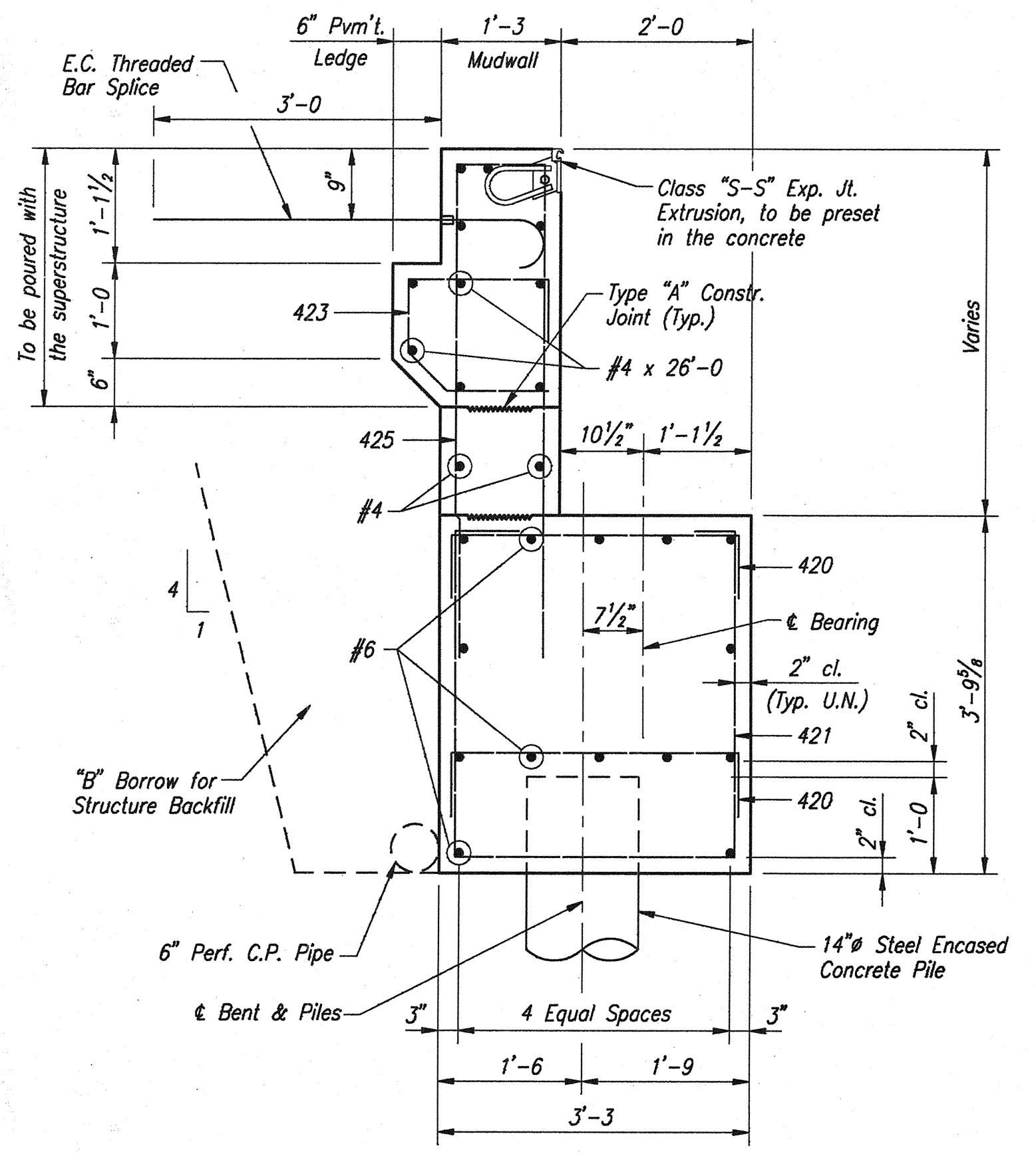
DRAWING: W12 OF W26 SHEET: 13 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: 1-74-14-2333D



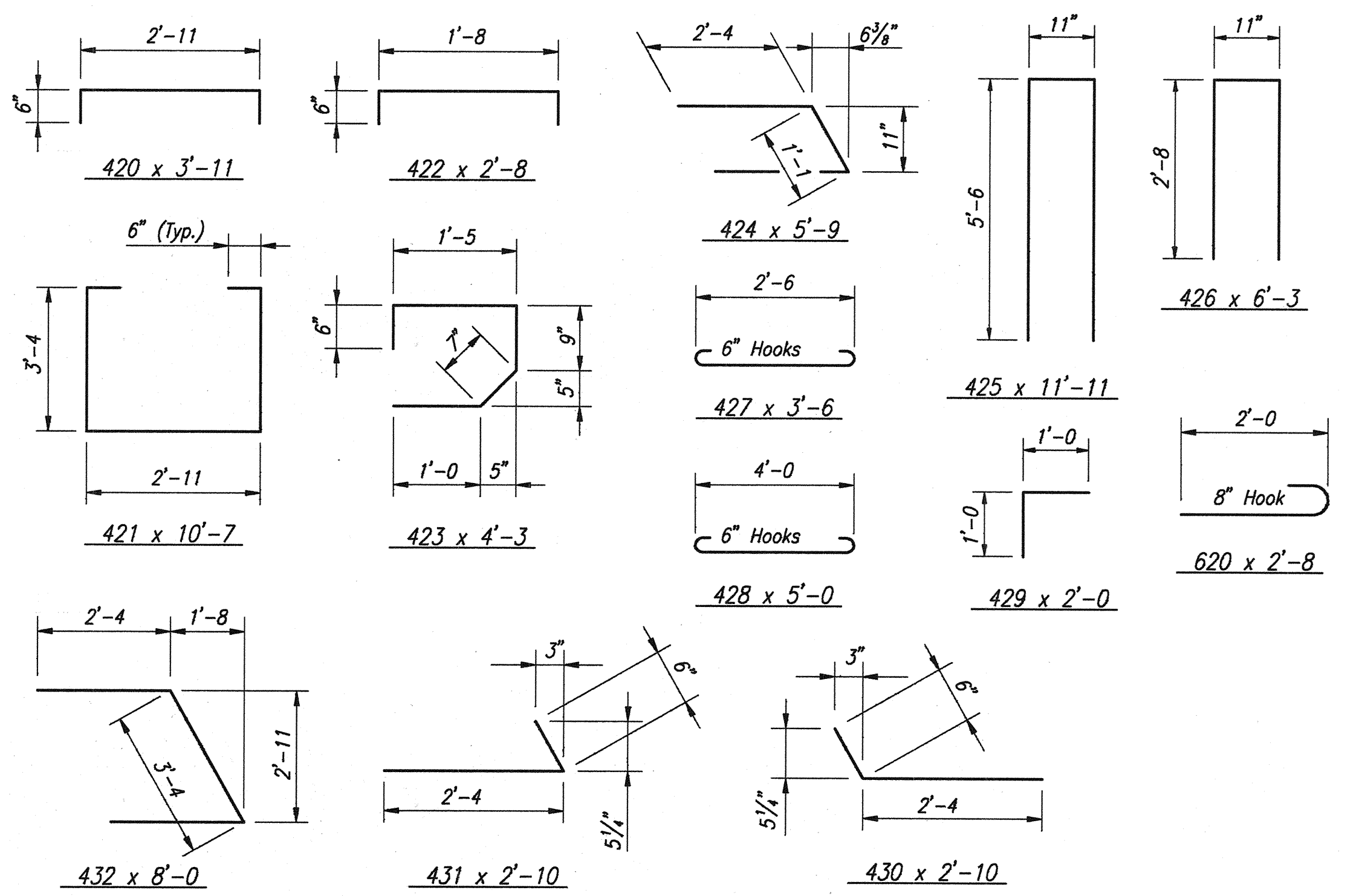
DESIGNED: M.W.C.
DRAWN: D.W.B.
TRACED: J.D.R.



PILING PLAN
Scale: 1/8" = 1'-0"



SECTION "B-B"
Scale: 1/4" = 1'-0"



BAR BENDING DETAILS
No Scale

**BILL OF MATERIALS
BENT NO.5-EASTBOUND**

EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
620	12	2'-8	
#6	4	14'-0	
#6	4	8'-9	
#6	2	8'-3	
#6	2	8'-0	
#6	2	7'-6	
#6	4	7'-3	
#6	8	2'-0	
Total #6			324
420	20	3'-11	
421	8	10'-7	
422	35	2'-8	
423	51	4'-3	
424	9	5'-9	
425	10	11'-11	
426	41	6'-3	
427	4	3'-6	
428	4	5'-0	
429	28	2'-0	
430	2	2'-10	
431	2	2'-10	
432	4	8'-0	
#4	20	26'-0	
#4	36	14'-0	
#4	1	7'-6	
#4	30	7'-3	
#4	31	7'-0	
#4	1	5'-0	
#4	1	4'-6	
#4	1	4'-0	
#4	3	3'-0	
#4	15	2'-0	
Total #4			1,705
Total Epoxy Coated Reinforcing			2,029

CONCRETE	
Class "A" Conc. in Substructure	
Pour No.1	5.8 Cys.
Pour No.2	3.8 Cys.
Pour No.3	0.6 Cys.
Pour No.4	0.7 Cys.
Pour No.5	2.1 Cys.
Pour No.6	2.1 Cys.
Total Class "A"	15.1 Cys.
Class "C" Conc.	7.6 Cys.

MISCELLANEOUS		
14" Steel Encased Concrete Pile (0.203")	1 @ 50'-0	50 Lft.
6" Perf. C.P. Pipe		65 Lft.
"B" Borrow For Str. Backfill		25 Cys.
Field Drilled Holes in Concrete		48 Each

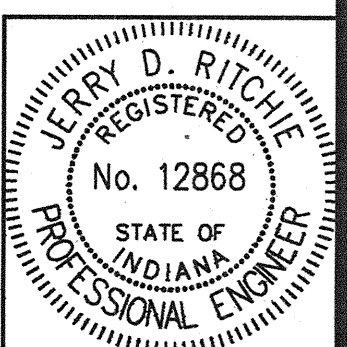
NOTES:
For Reinforcing Bar Notes, see Br. Std. C1.
For Type "A" Constr. Jt., see Br. Std. C3.
For Additional End Bent Details, see Dwg. W12.

BENT NO. 5 EASTBOUND DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

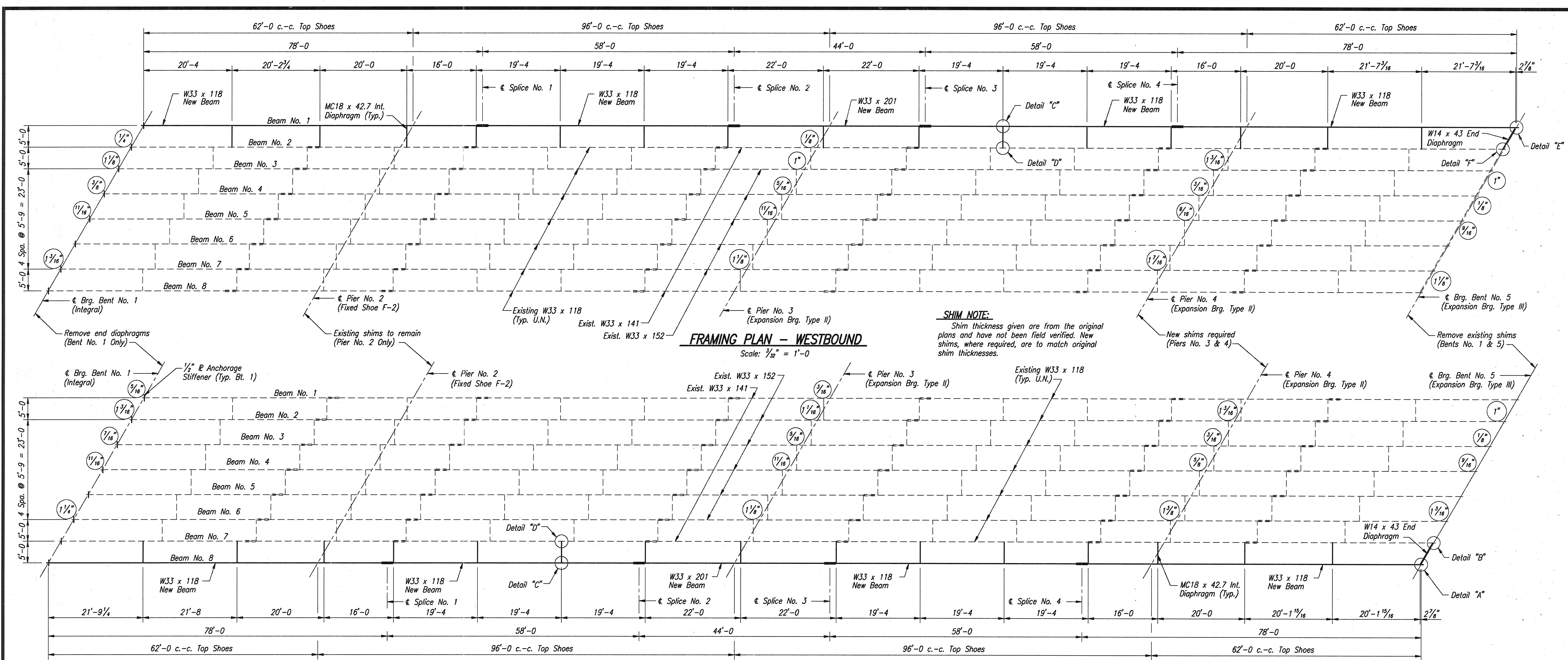
SCALE: As Noted DATE: OCTOBER 17, 1995

Jerry D. Ritchie

DRAWING: W13 OF W26 SHEET: 14 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: I-74-14-2333D



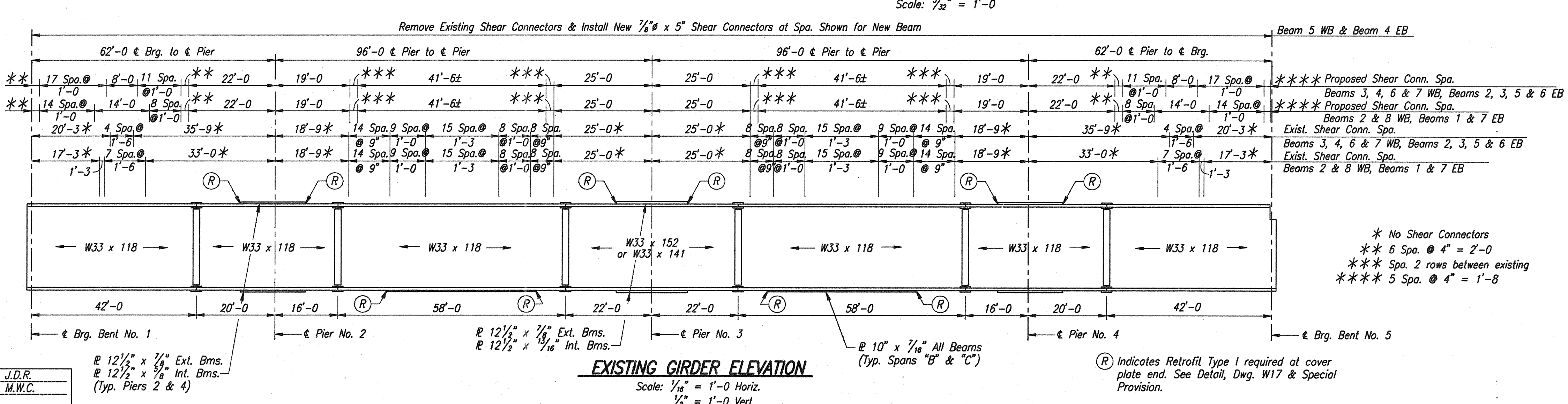
DESIGNED	M.W.C.	CHKD	
DRAWN	D.W.B.	CHKD	J.D.R.
TRACED		CHKD	



FRAMING PLAN - WESTBOUND
Scale: 1/32" = 1'-0"

FRAMING PLAN - EASTBOUND
Scale: 1/32" = 1'-0"

SHIM NOTE:
Shim thickness given are from the original plans and have not been field verified. New shims, where required, are to match original shim thicknesses.

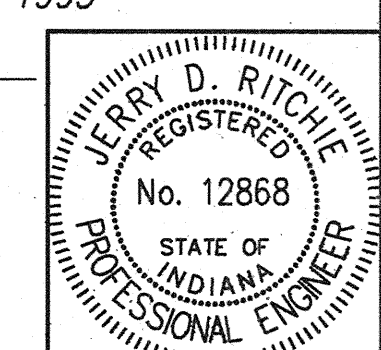


EXISTING GIRDER ELEVATION
Scale: 1/16" = 1'-0" Horiz.
1/2" = 1'-0" Vert.

NOTES:
For Structural Steel Fabrication Notes, see the Special Provisions.
Estimated weight of structural steel is approximately 96,600 Lbs. (48,300 Lbs. each bridge).
All structural steel shall conform to ASTM A709-50.
For General Notes, see Dwg. W2.
Estimated quantity of "Shear Connectors, 7/8" Stud, is 4,548 Ea. (2,274 each bridge).
Contractor shall replace any damaged shear connectors from deck removal. Contractor has option to remove all existing shear connectors and replace with new connectors. Spacing of connectors shall be the same as proposed beam line.
For existing cover @ repairs, see Dwg. W17.

STRUCTURAL STEEL DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

SCALE: As Noted
DATE: OCTOBER 17, 1995
DRAWING: W16 OF W26
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: I-74-14-2333D

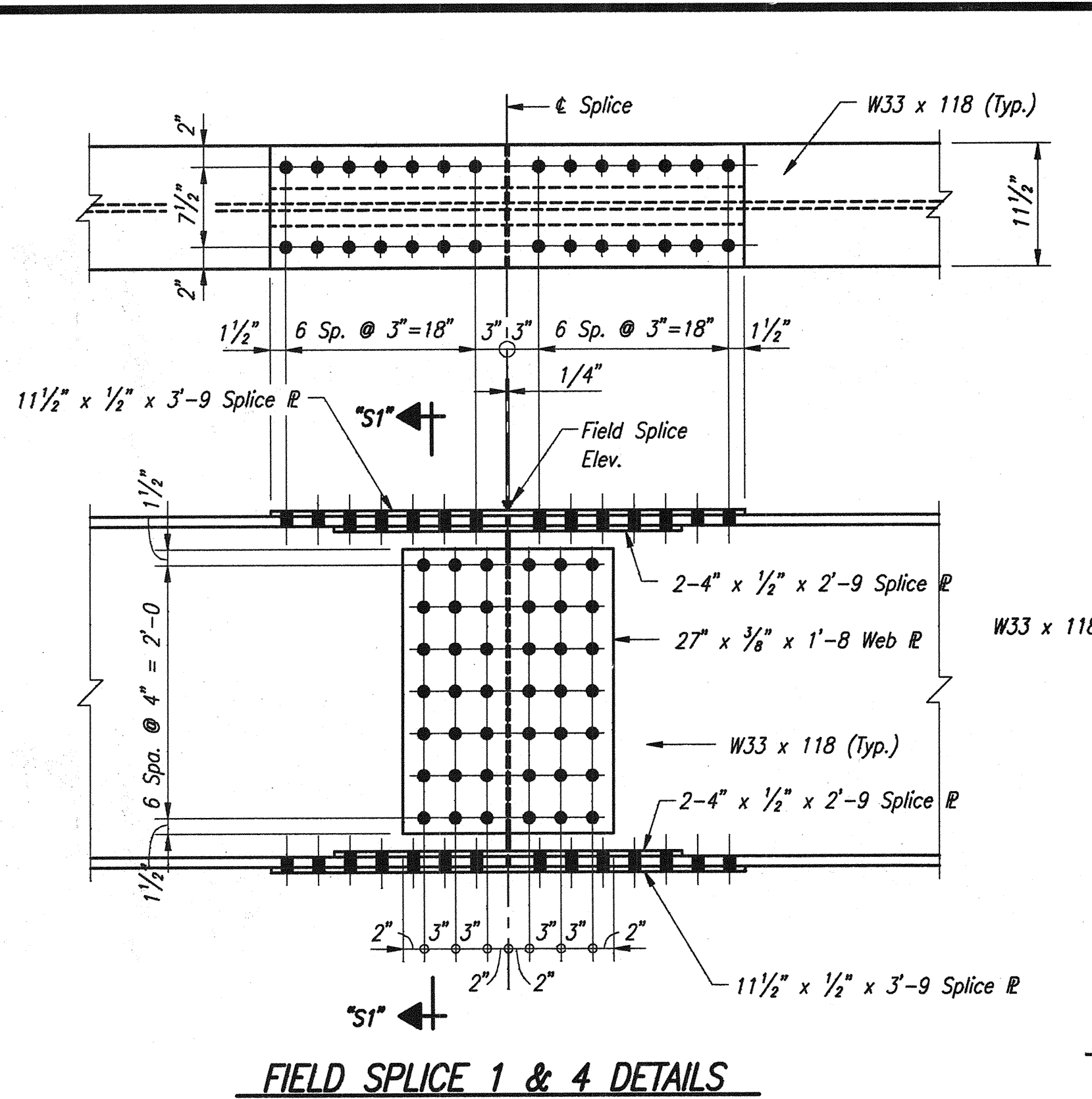


DESIGNED: M.W.C. c/c J.D.R.
DRAWN: D.W.B. c/c M.W.C.
CHECKED: c/c

R 12 1/2" x 7/8" Ext. Bms.
R 12 1/2" x 3/4" Int. Bms.
(Typ. Piers 2 & 4)

* No Shear Connectors
** 6 Spa. @ 4" = 2'-0"
*** Spa. 2 rows between existing
**** 5 Spa. @ 4" = 1'-8"

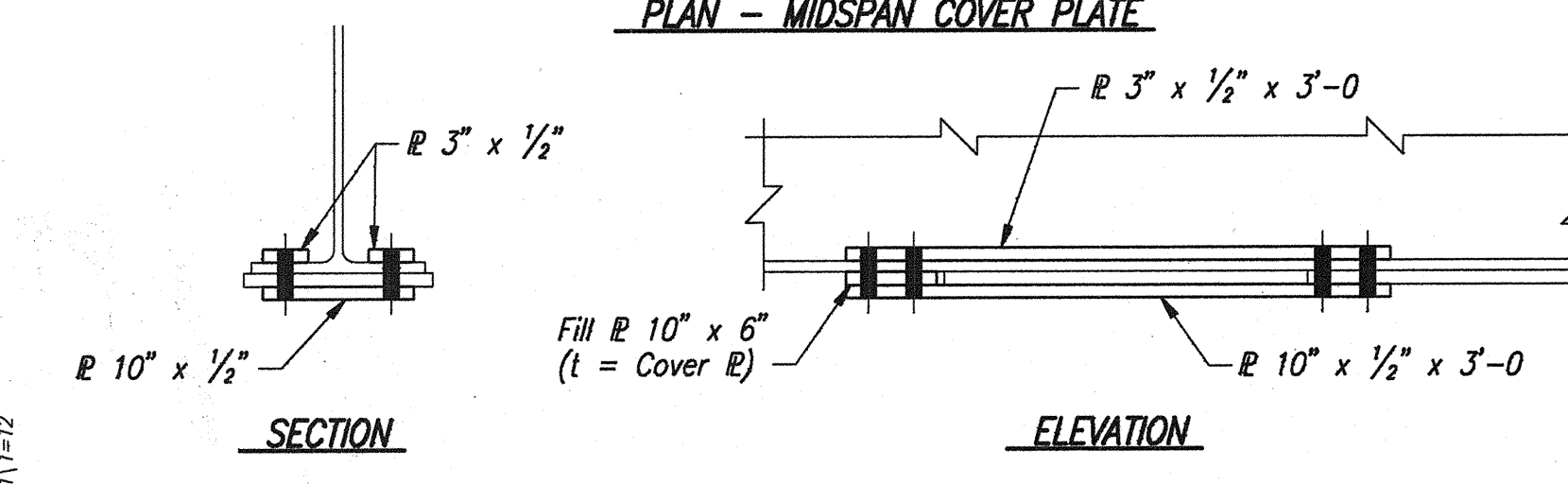
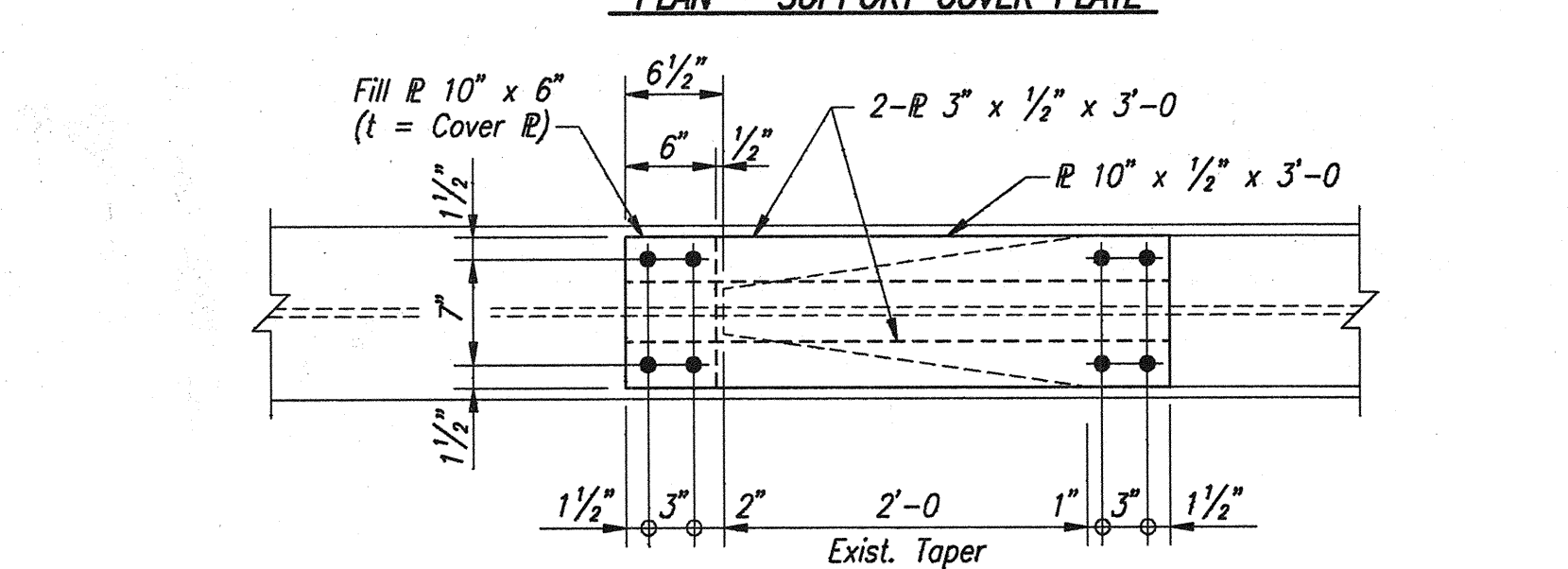
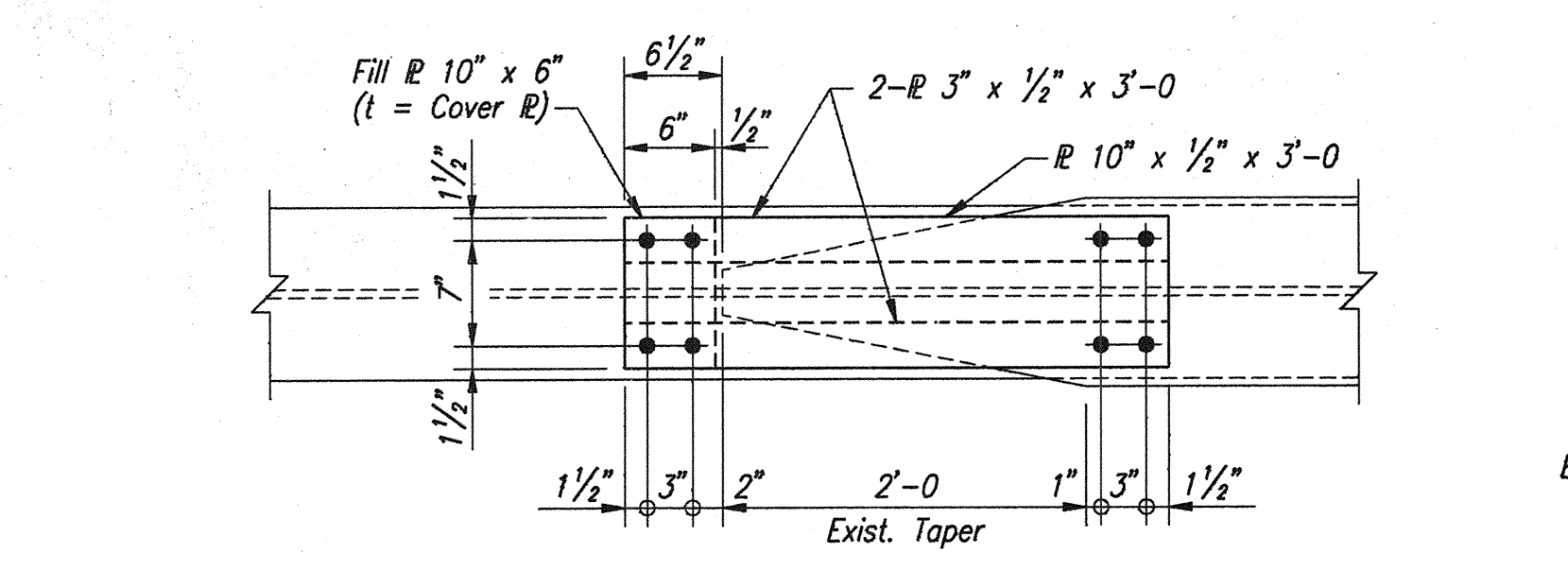
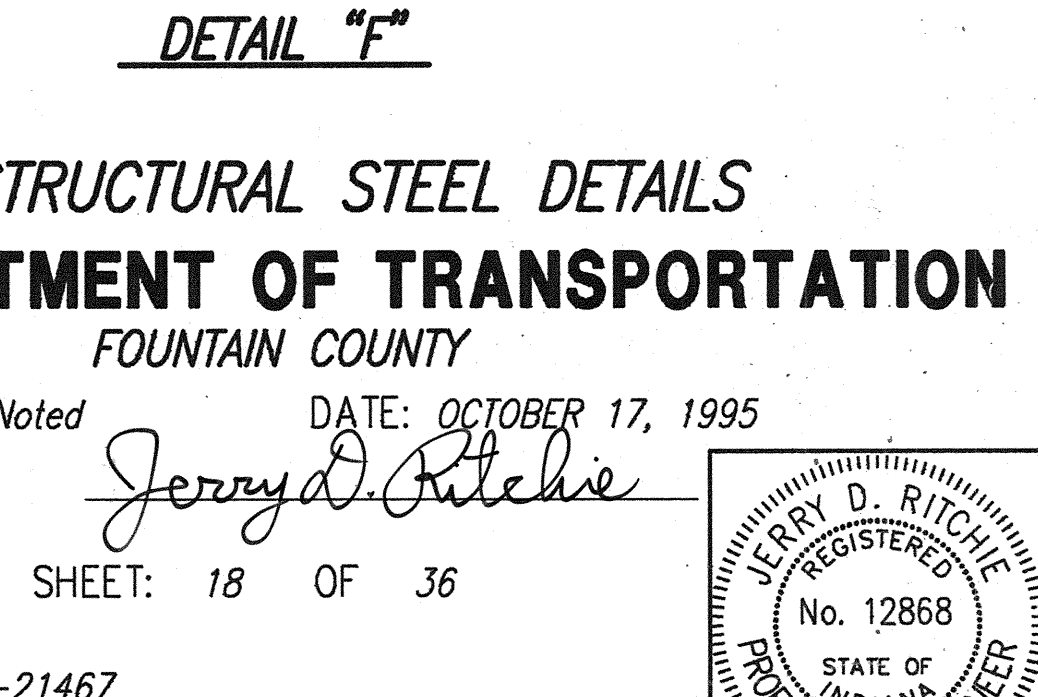
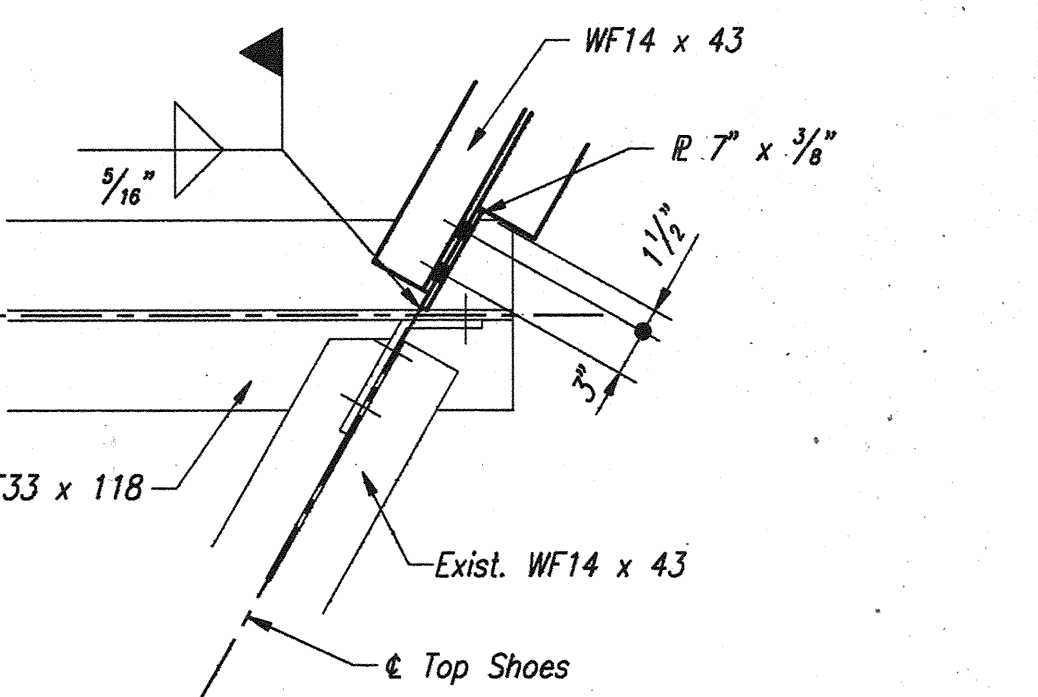
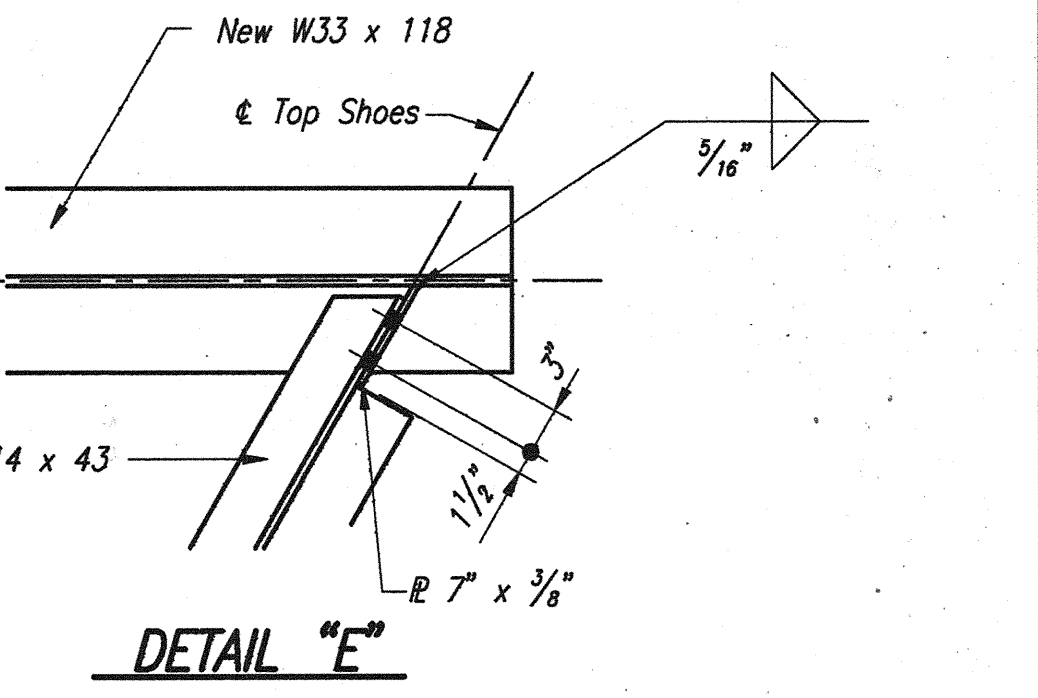
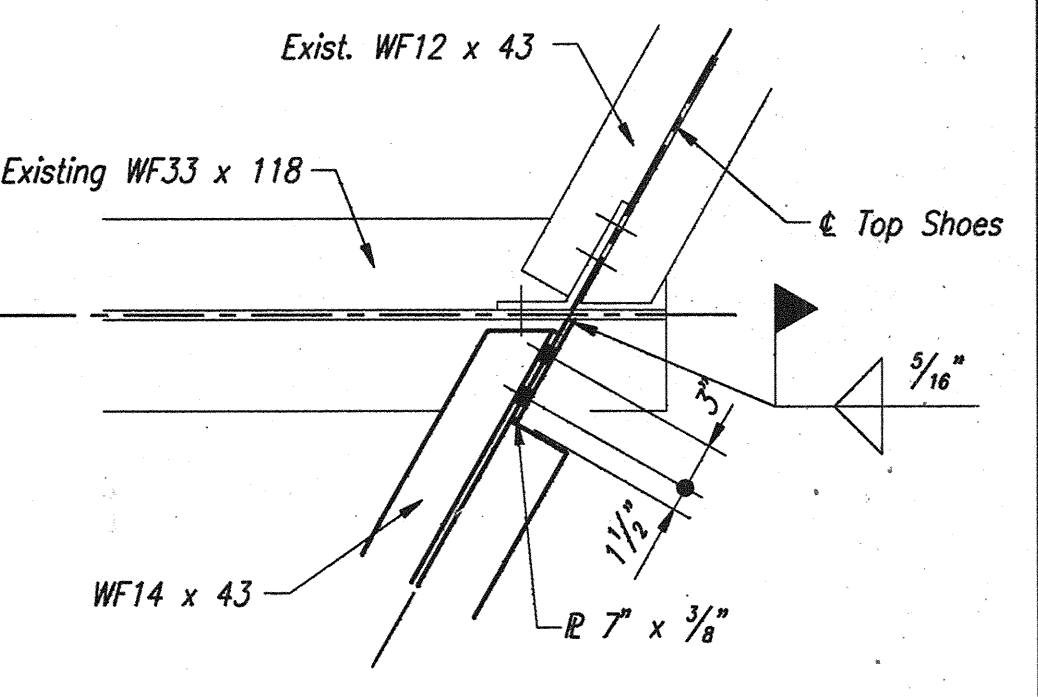
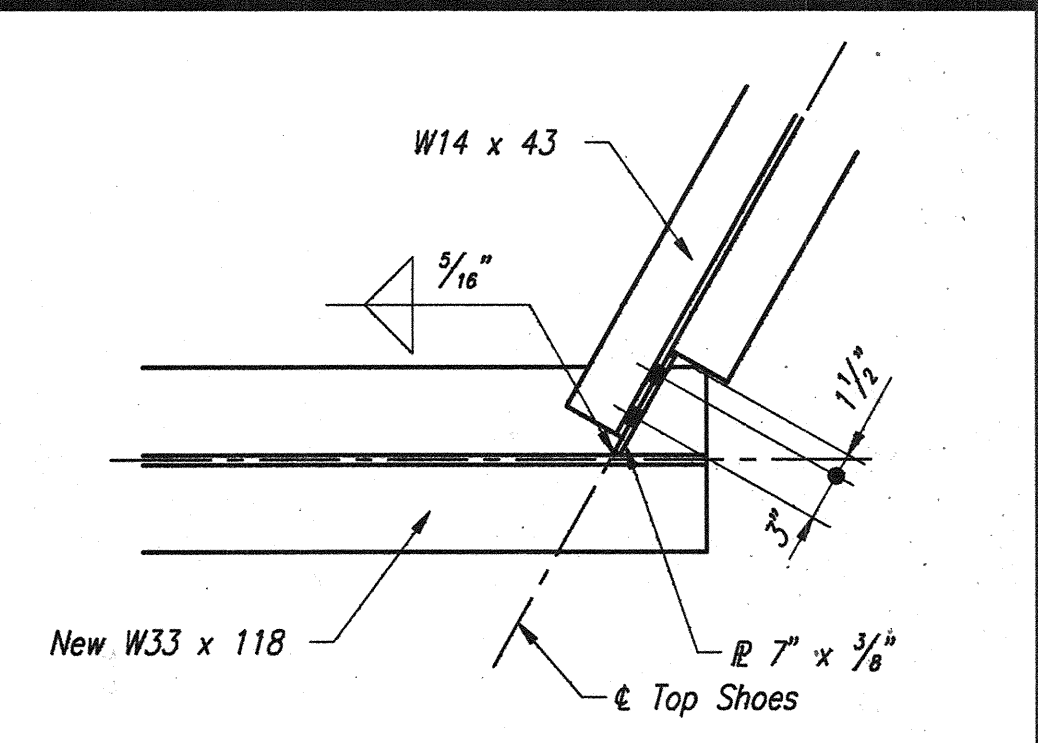
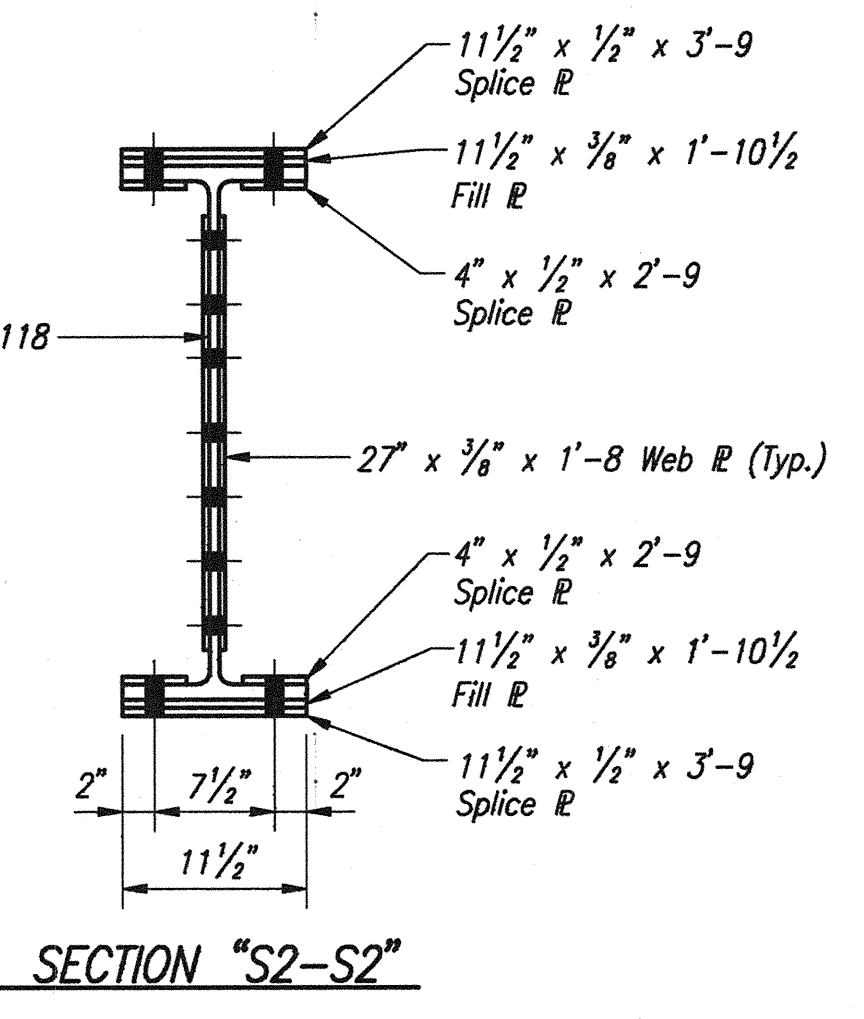
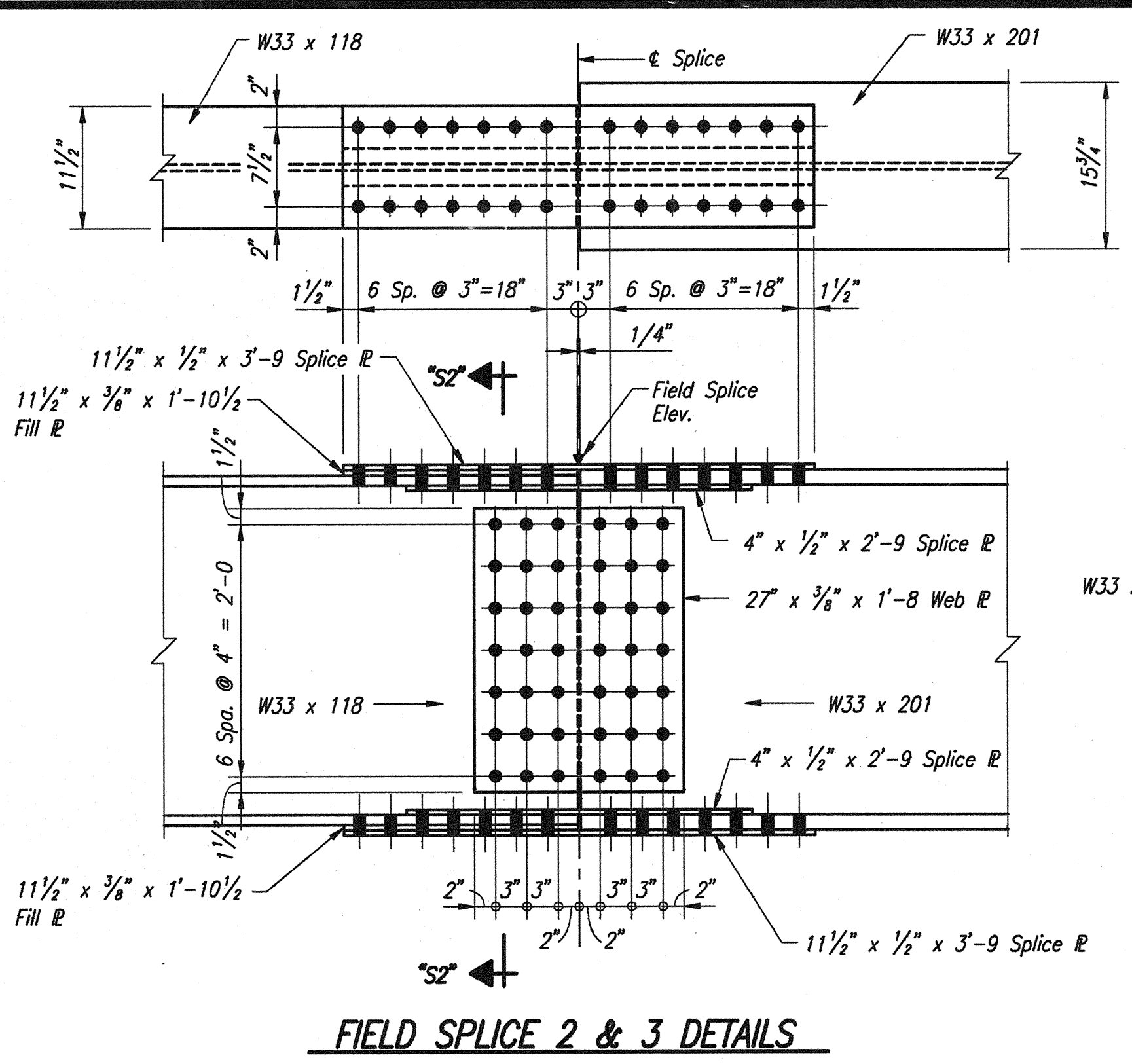
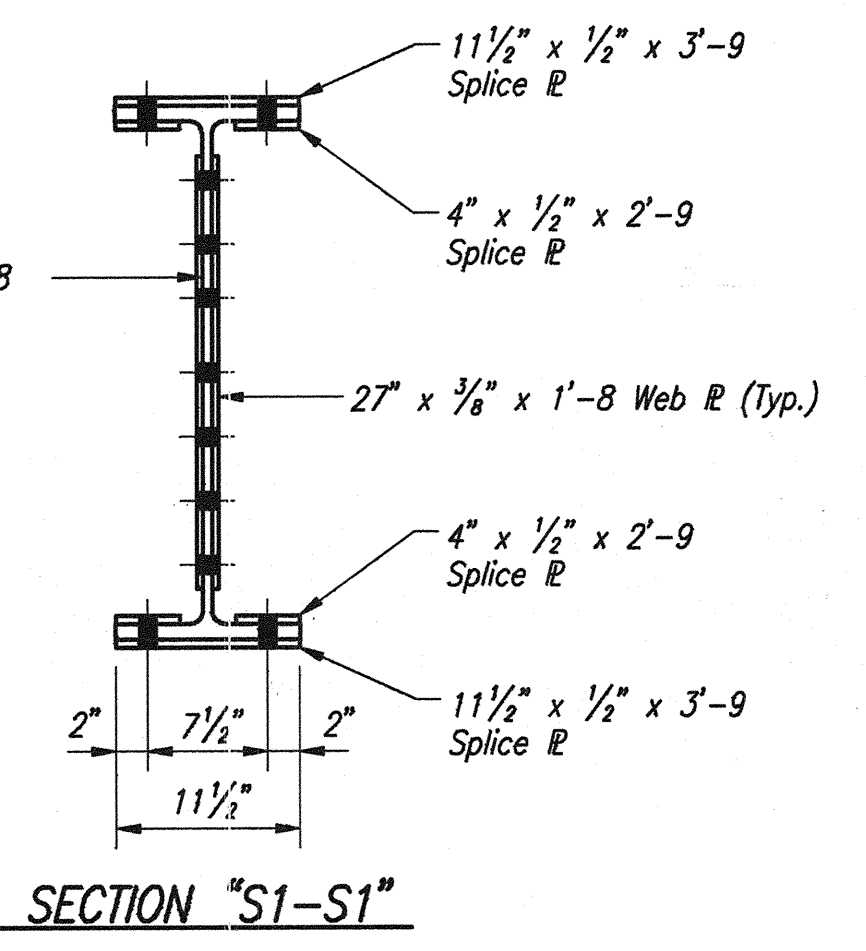
(R) Indicates Retrofit Type I required at cover plate end. See Detail, Dwg. W17 & Special Provision.



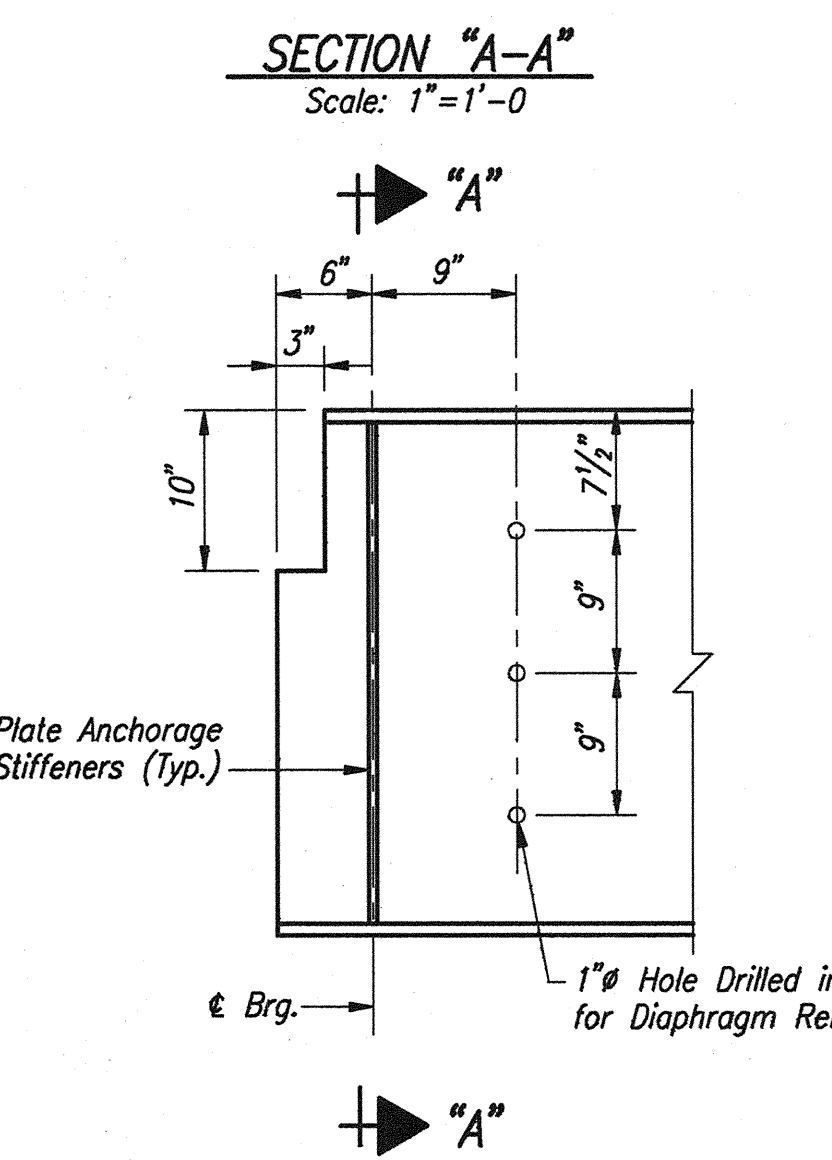
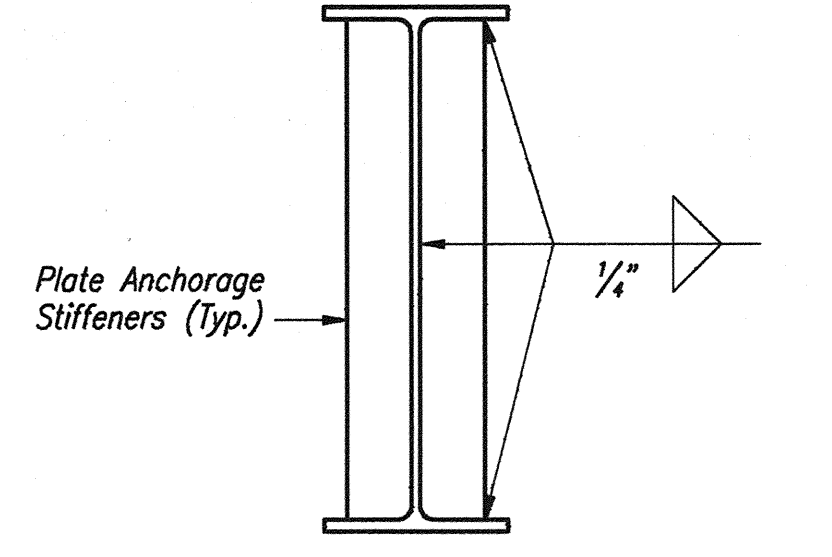
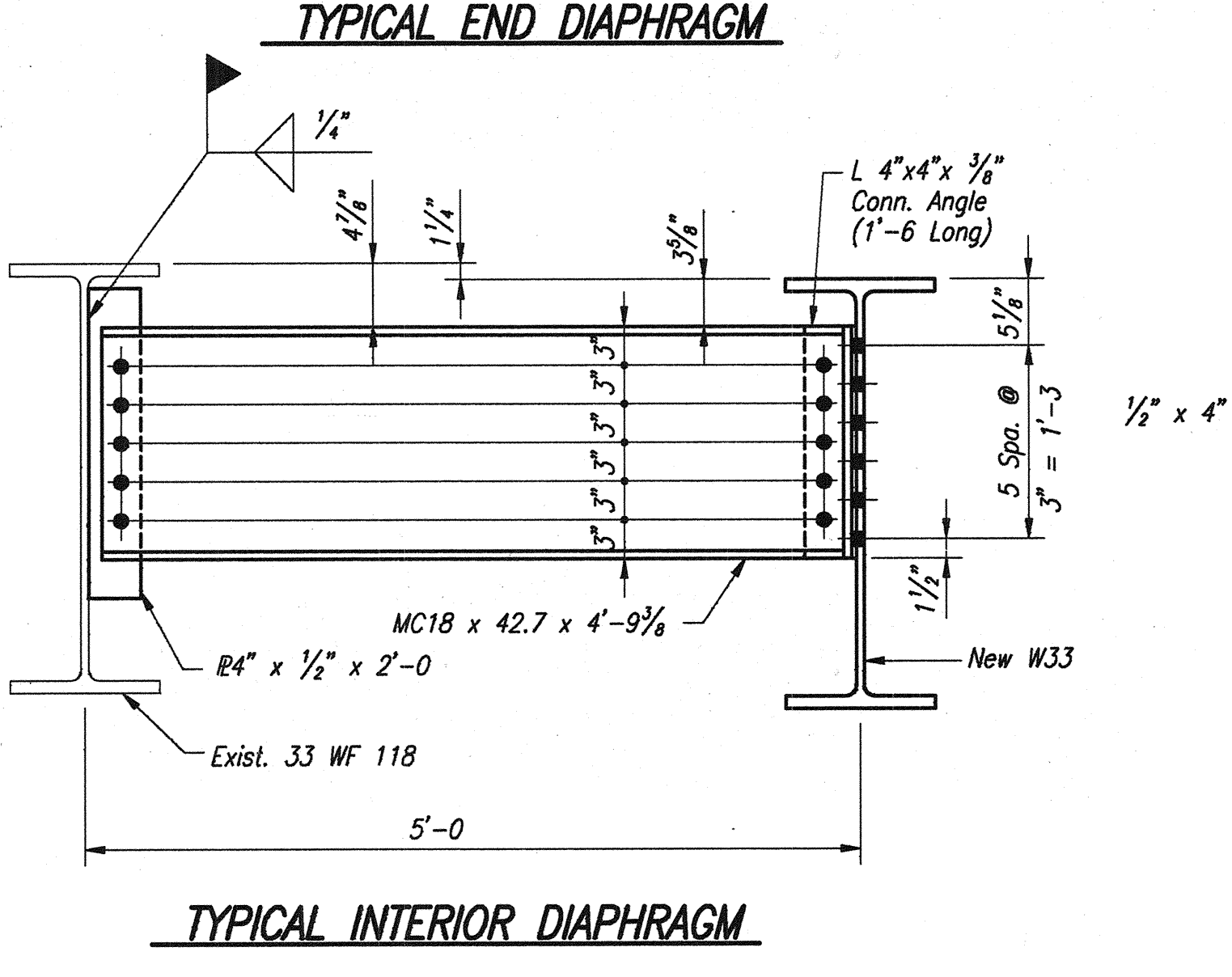
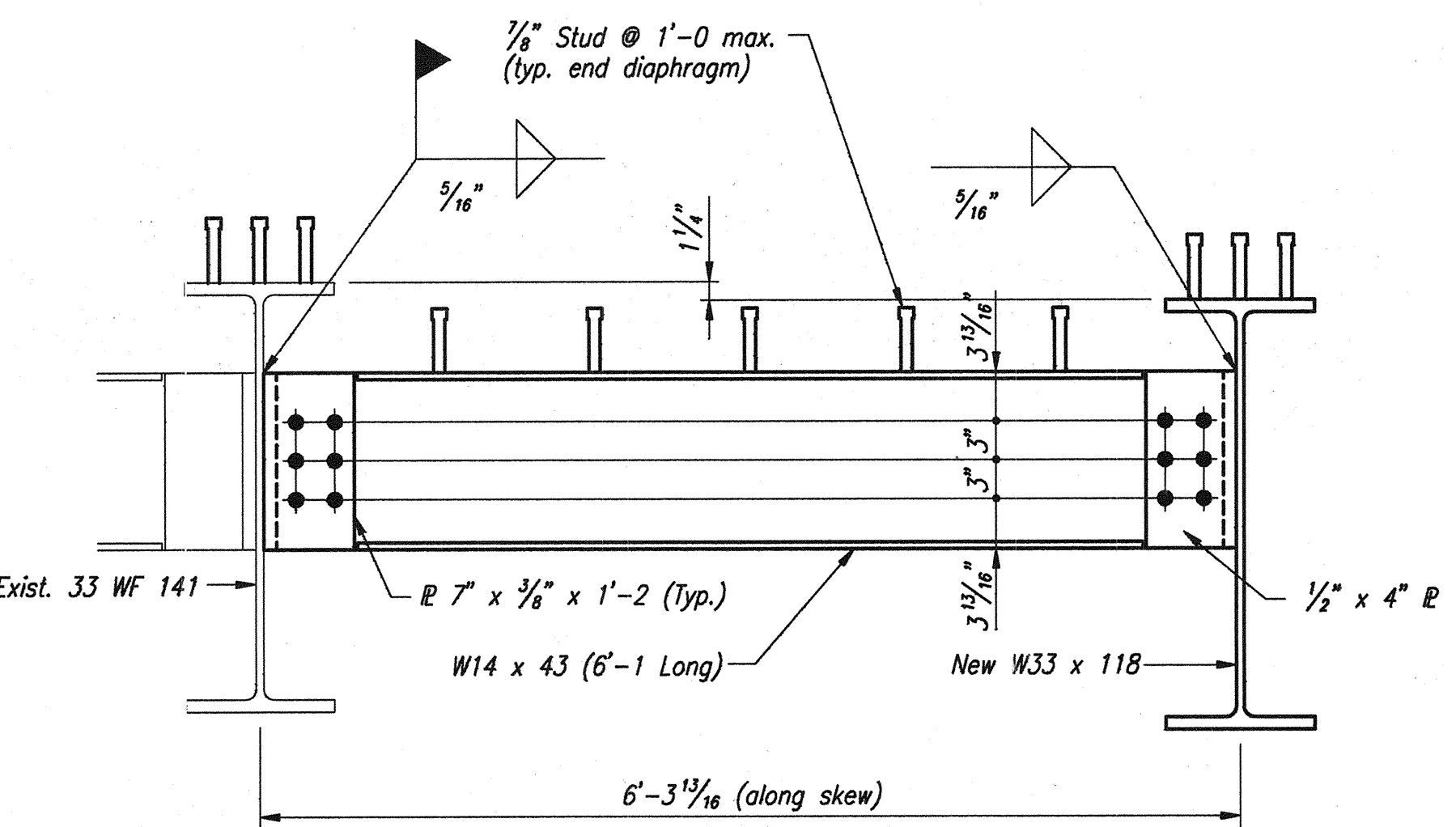
TOP OF SPLICE ELEVATIONS

Splice No.	EBL	WBL
1	617.435	617.730
2	617.690	617.950
3	617.865	618.095
4	618.060	618.250

Splice elevations are with falsework removed and carrying steel dead load only. Top of beam splice plates shall be adjusted to the above elevations before bolting field splices.



RETROFIT - TYPE I DETAILS

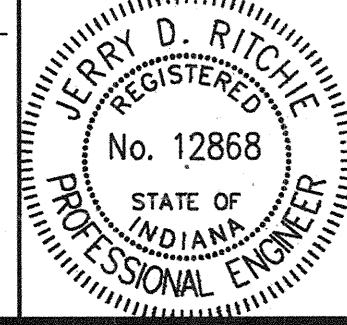


TYPICAL GIRDER END ELEVATION - BENT NO. 1

STRUCTURAL STEEL DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

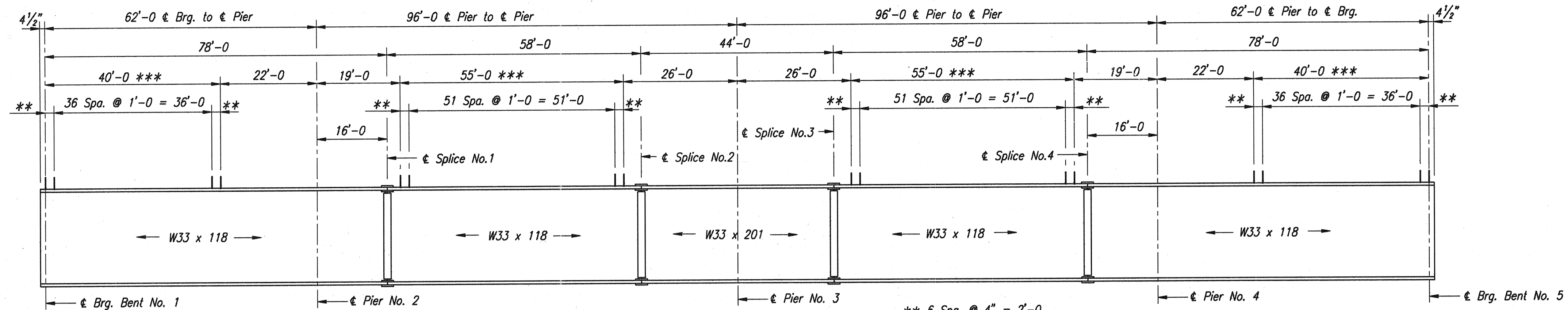
SCALE: 1" = 1'-0 Unless Noted DATE: OCTOBER 17, 1995

Jerry D. Ritchie
DRAWING: W17 OF W26 SHEET: 18 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: I-74-14-2333D



DESIGNED	M.W.C.	CHKD	J.D.R.
DRAWN	D.W.B.	CHKD	M.W.C.
INCHES		CHKD	

NOTE:
For General Notes, see Dwg. W2.



GIRDER ELEVATION

Scale: $\frac{1}{16}'' = 1'-0''$ Horiz.
 $\frac{1}{2}'' = 1'-0''$ Vert.

** 6 Spa. @ 4" = 2'-0"
 *** No paint on the top flange or shear connectors in these areas.

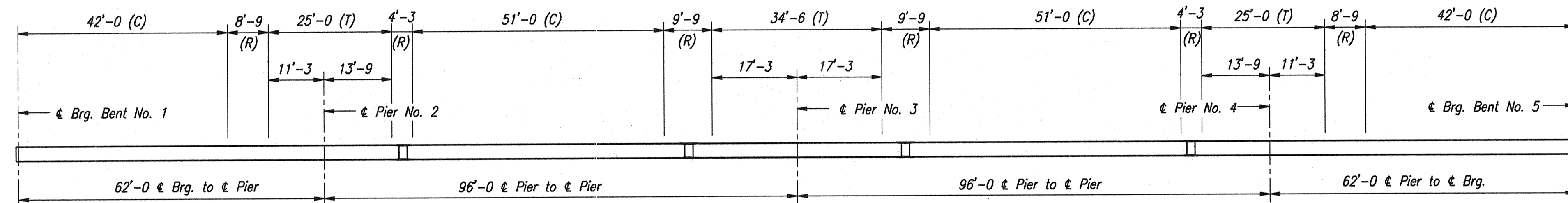
DESIGN DATA

LIVE LOADS: HS20-44 loading with impact and distribution of loads in accordance with 1992 A.A.S.H.T.O. Standard Specifications.

DEAD LOADS: Actual weight plus 35 psf (composite) for future wearing surface and 15 psf (non-composite) for permanent metal deck forms.

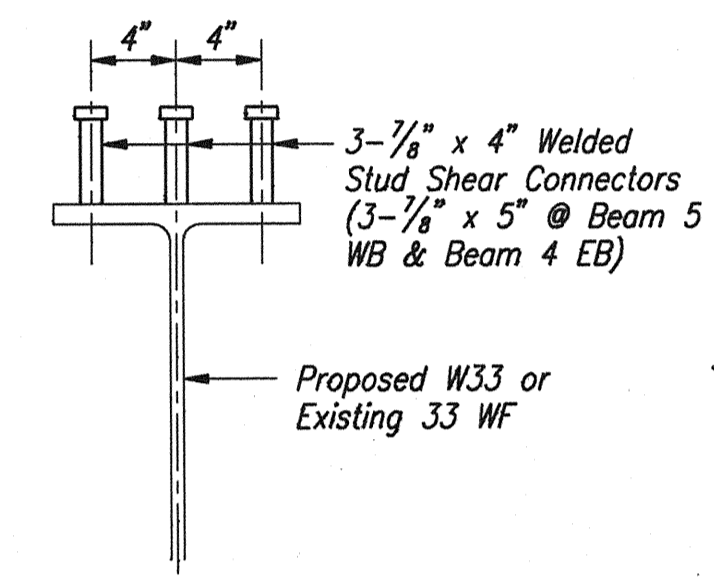
SLAB: Designed for 16,000 lbs. wheel plus impact.

Slab designed with a structural depth of $6\frac{1}{2}''$.



TENSION - COMPRESSION DIAGRAM

No Scale

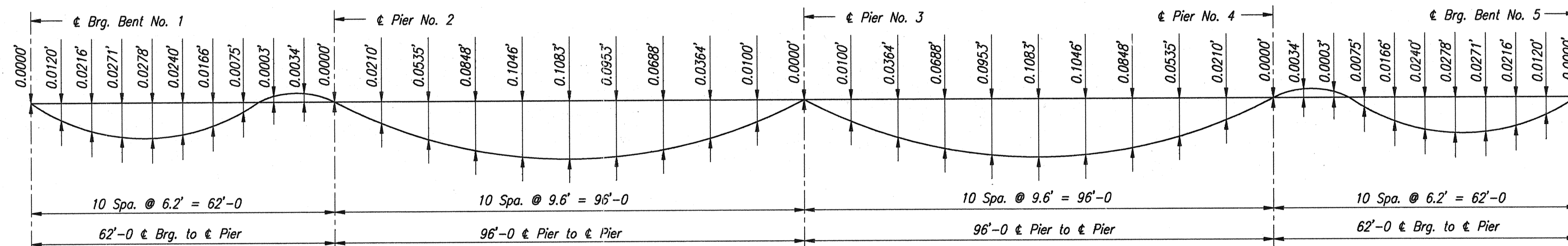


NOTES:

The Contractor may use $\frac{3}{4}''$ welded studs or welded channels as an alternate shear connectors. If used, they shall have equivalent shear value and the proposed size and spacing shall be submitted for approval.

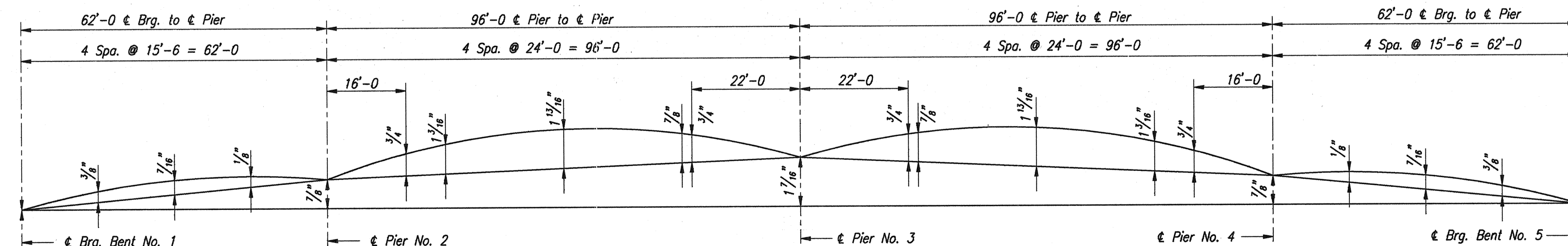
SHEAR CONNECTOR DETAIL

No Scale



CONCRETE DEAD LOAD DEFLECTIONS

No Scale



CAMBER DIAGRAM

No Scale

NOTE:

For General Notes, see Dwg. W2.

STRUCTURAL STEEL DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
 FOUNTAIN COUNTY

SCALE: As Noted

DATE: OCTOBER 17, 1995

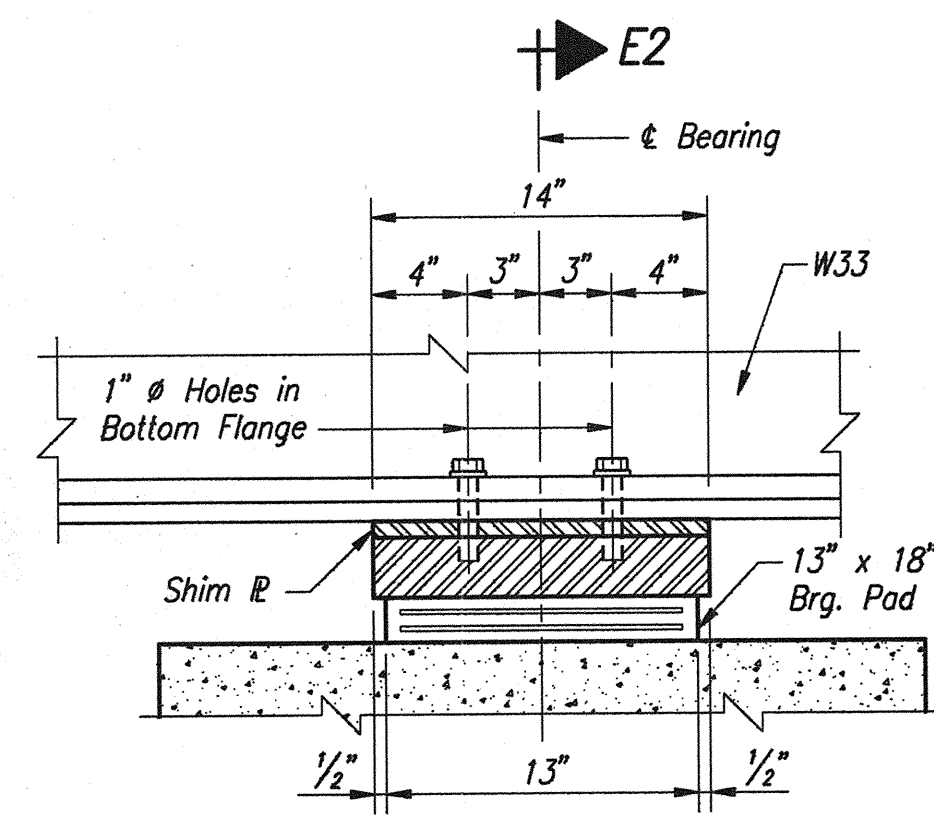
Jerry D. Ritchie

DRAWING: W18 OF W26 SHEET: 19 OF 36
 PROJECT: IM-74-1(115)0
 BRIDGE CONTRACT NO. R-21467
 BRIDGE FILE: I-74-14-2333D

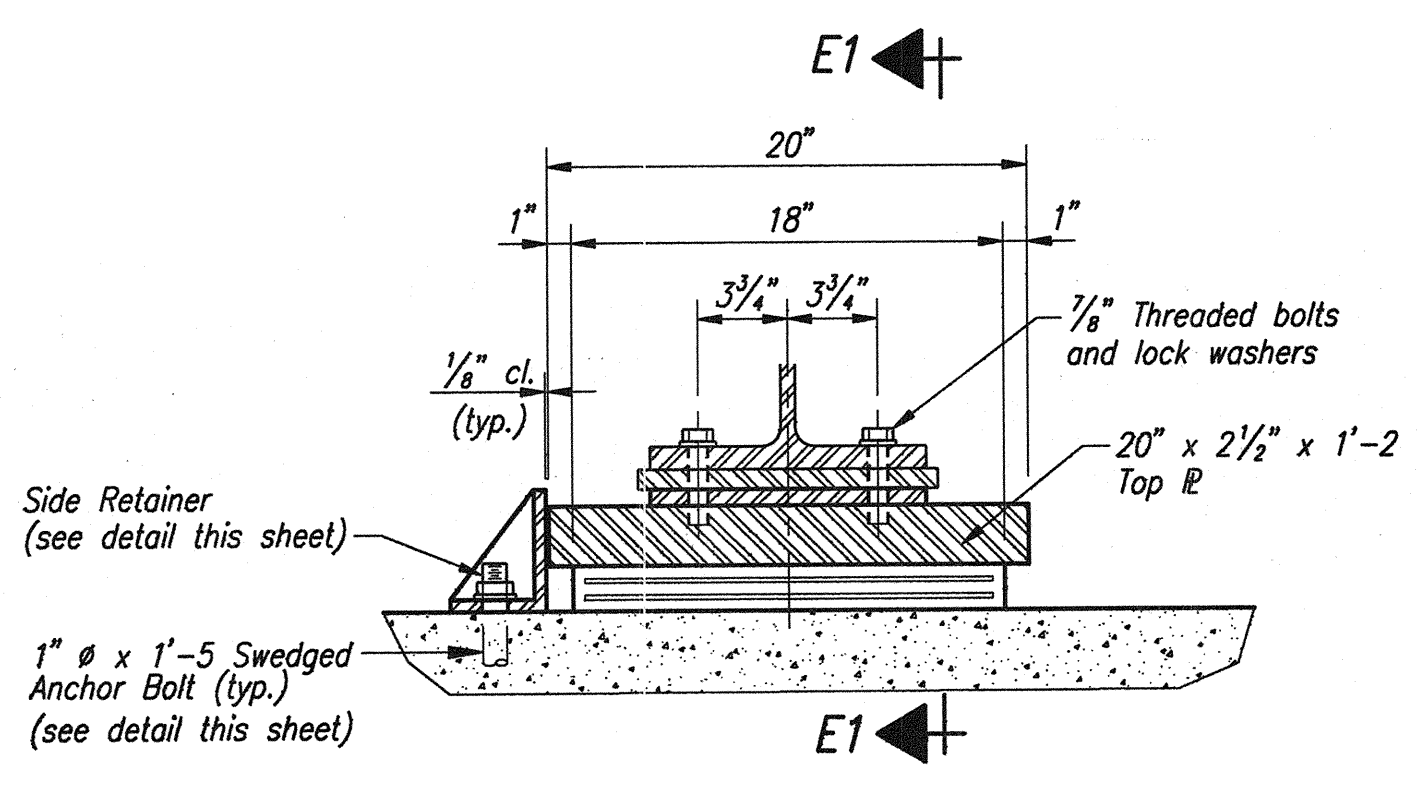


95176890 (08/25/21) 11-102

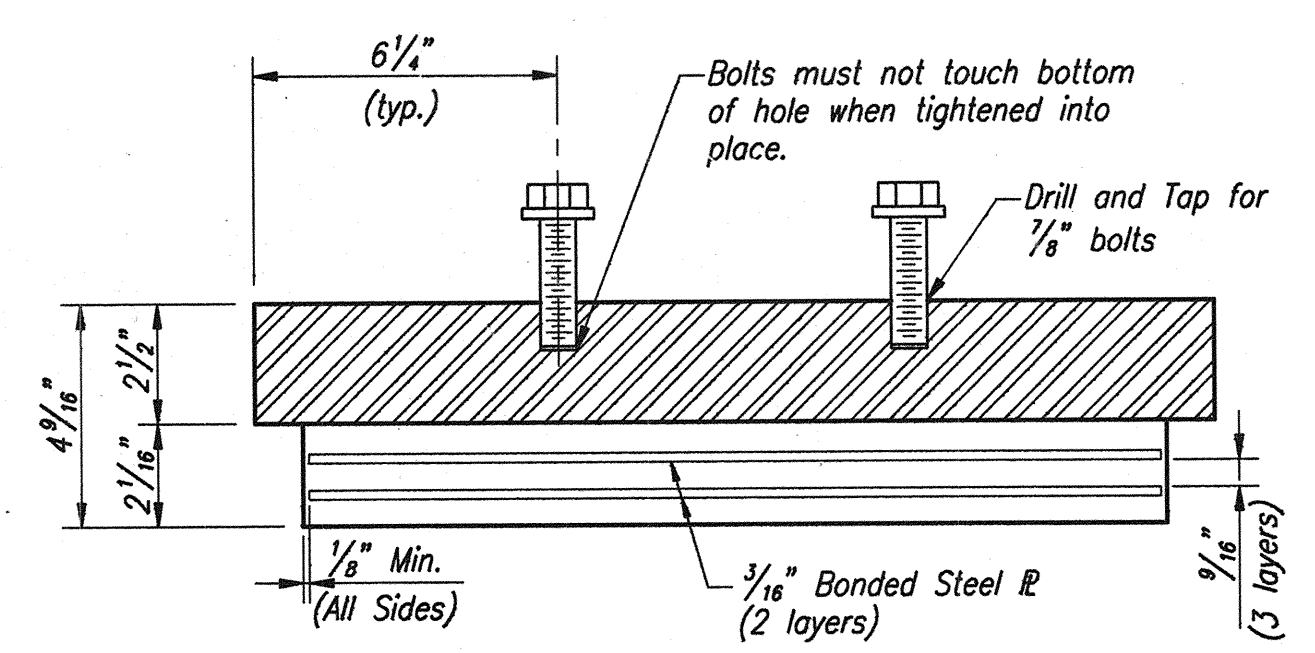
DESIGNED	M.W.C.	CHECKED	J.D.R.
DRAWN	D.W.B.	CHECKED	M.W.C.
TRACED		CHECKED	



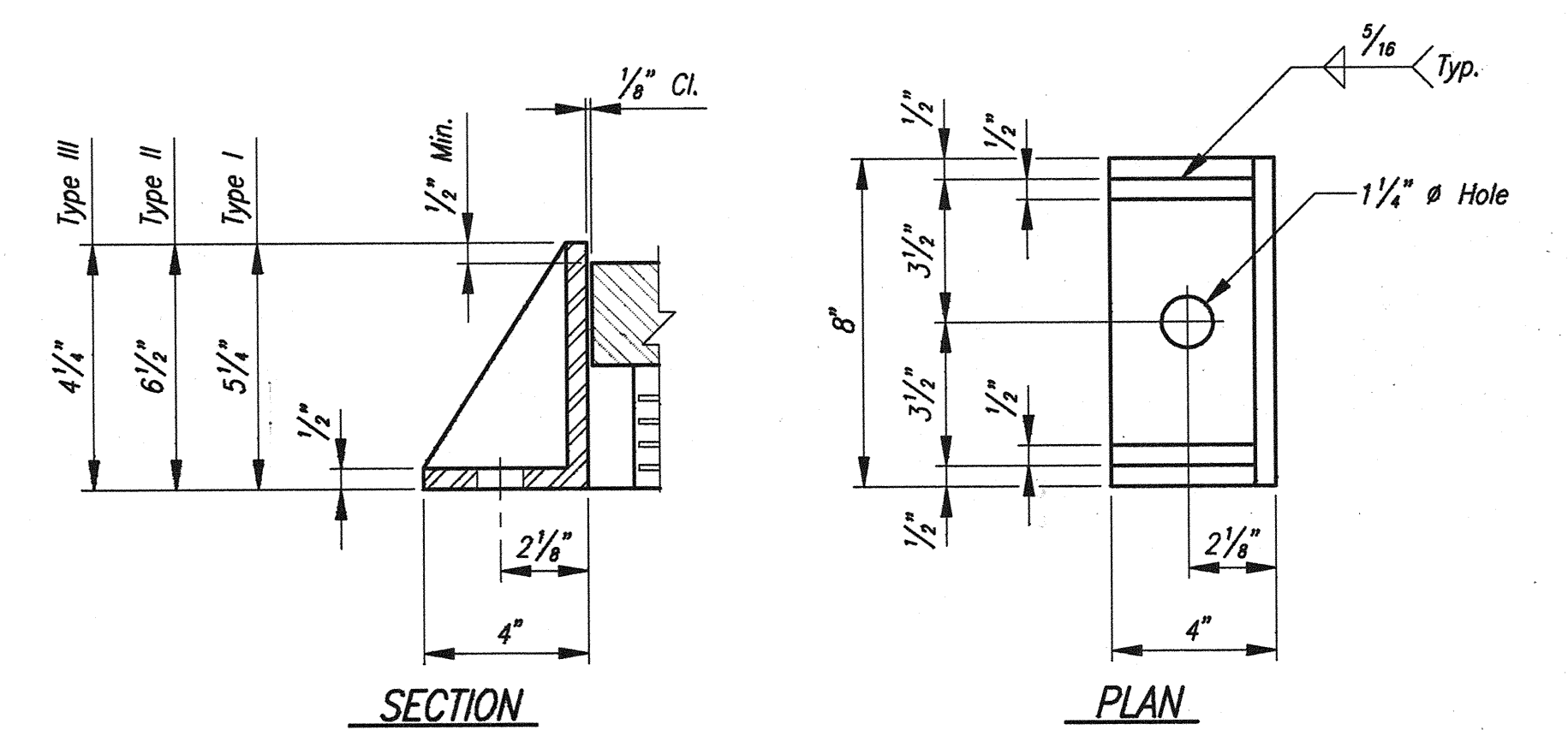
SECTION E1-E1



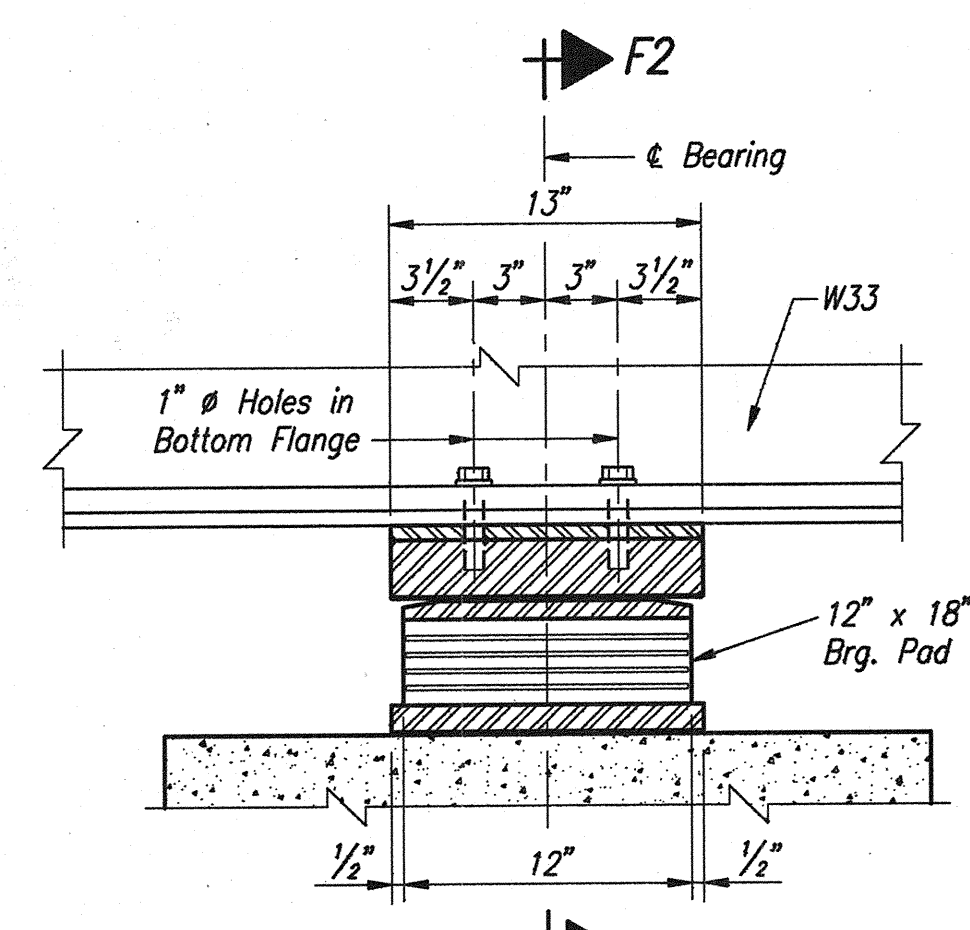
SECTION E2-E2
PIER NO. 3 - BEARING ASSEMBLY II
No Scale



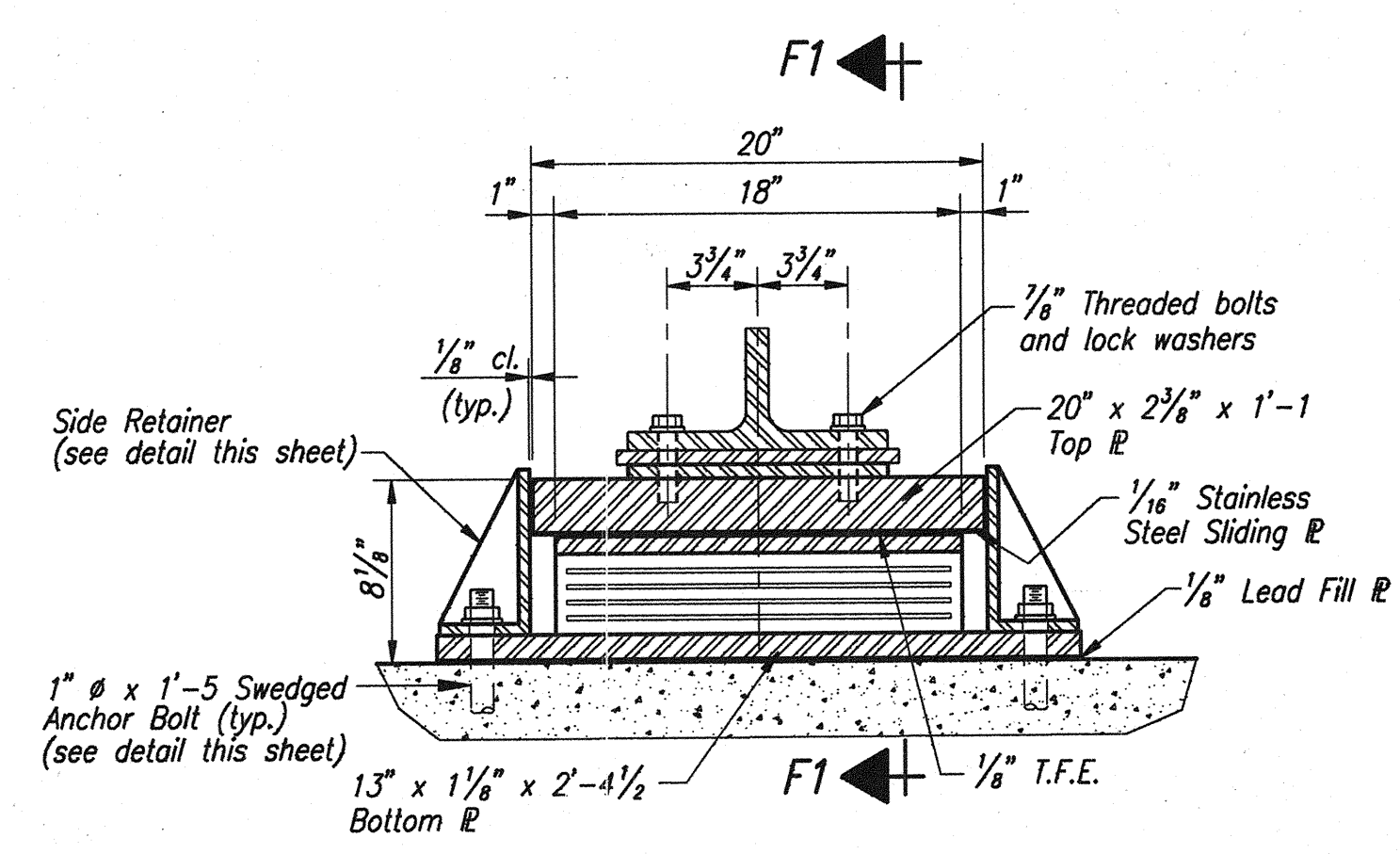
BEARING ASSEMBLY



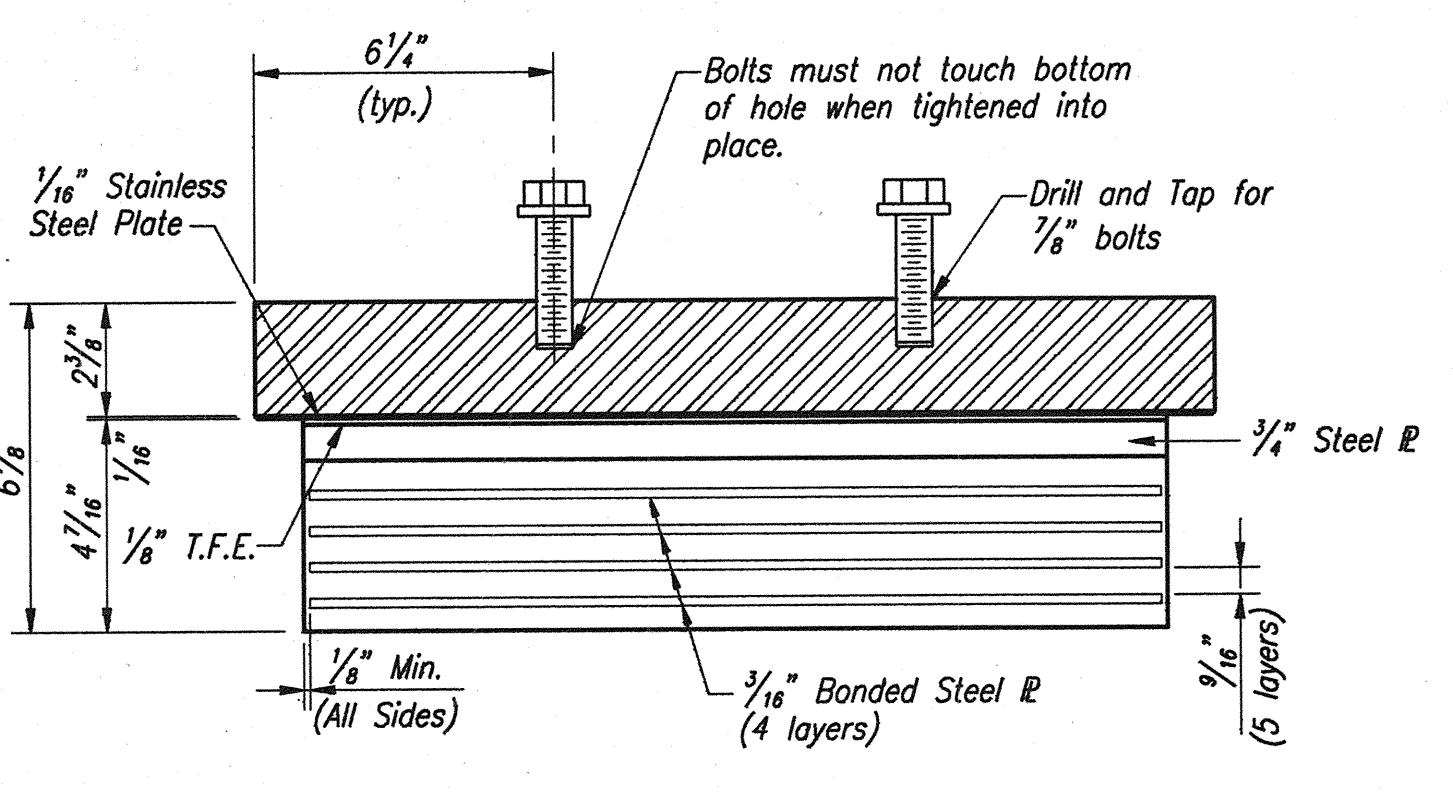
SIDE RETAINER
No Scale



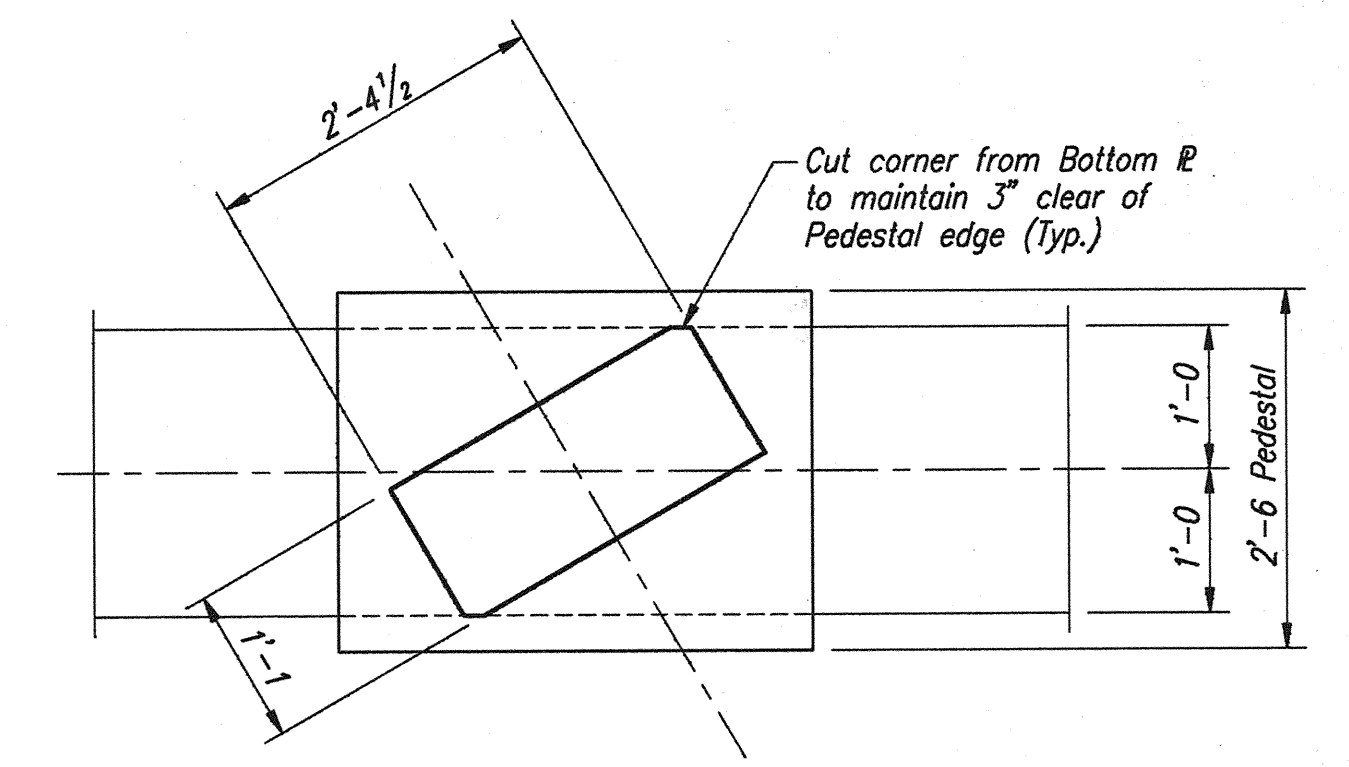
SECTION F1-F1



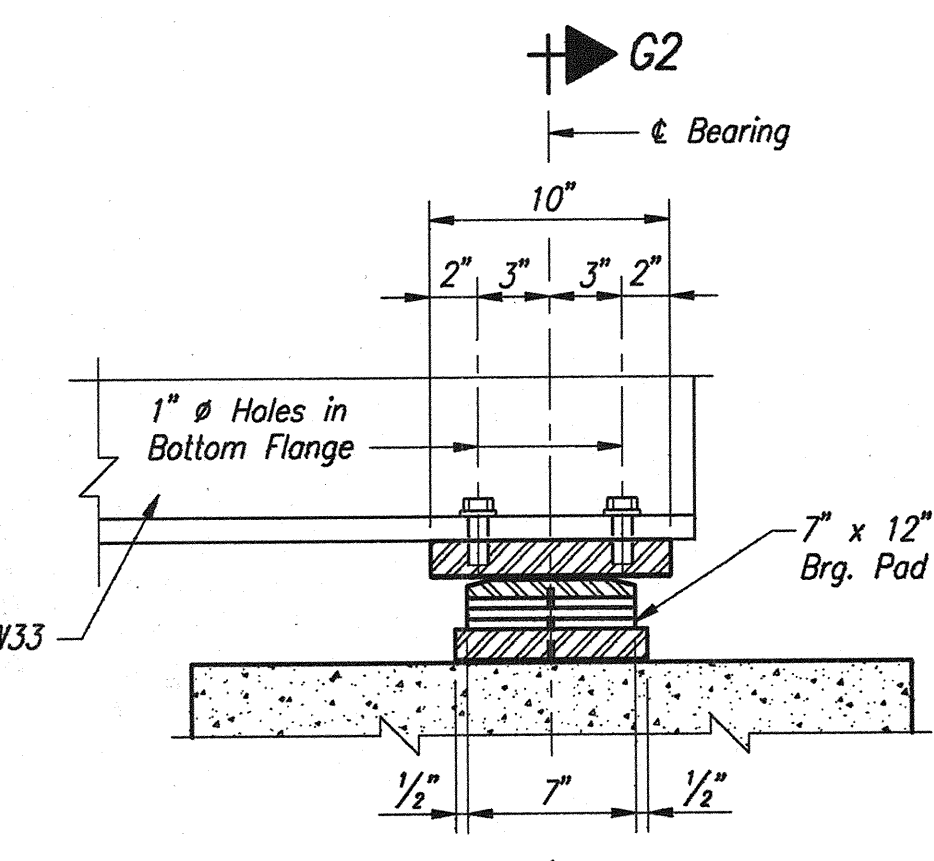
SECTION F2-F2
PIER NO. 4 - BEARING ASSEMBLY III
No Scale



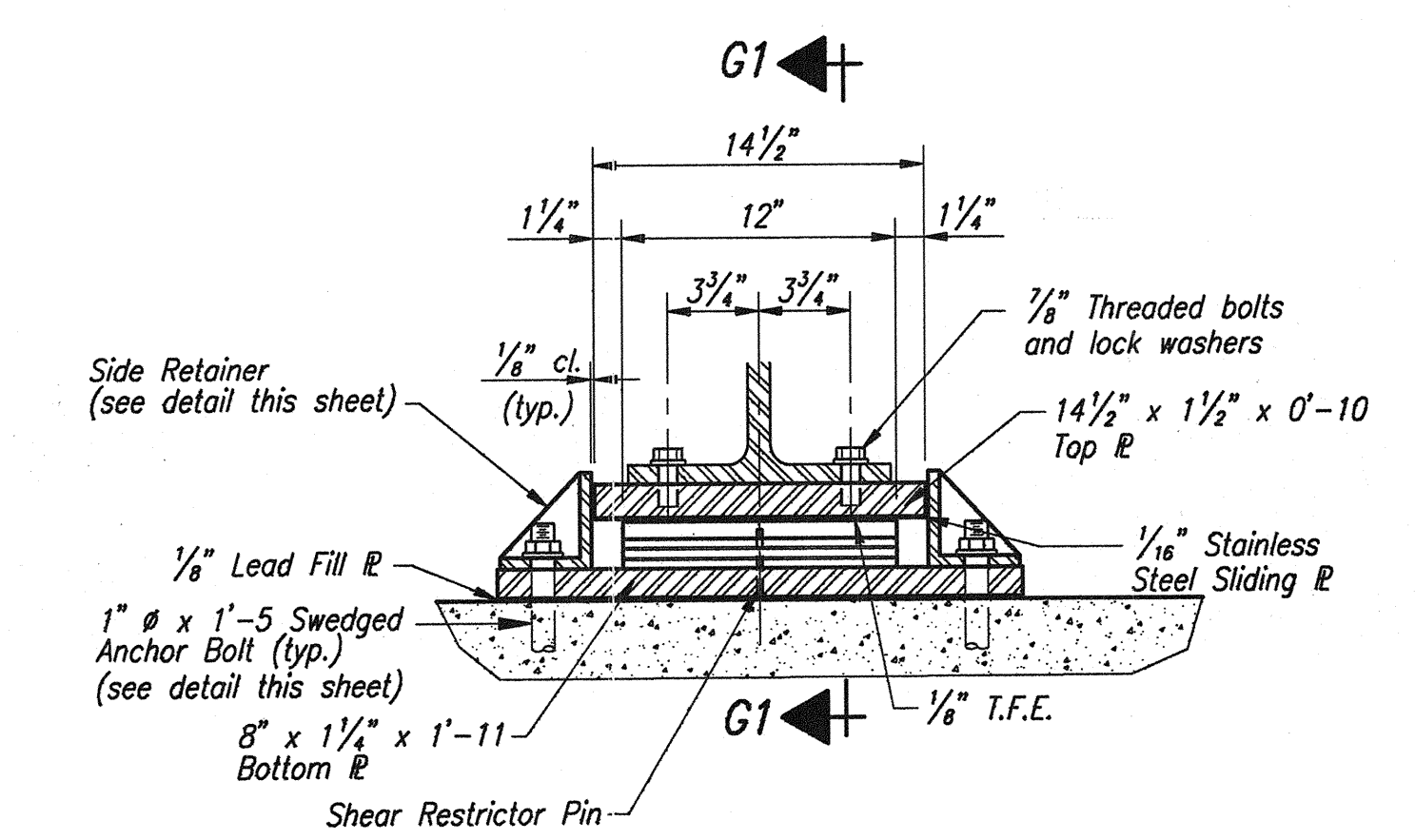
BEARING ASSEMBLY



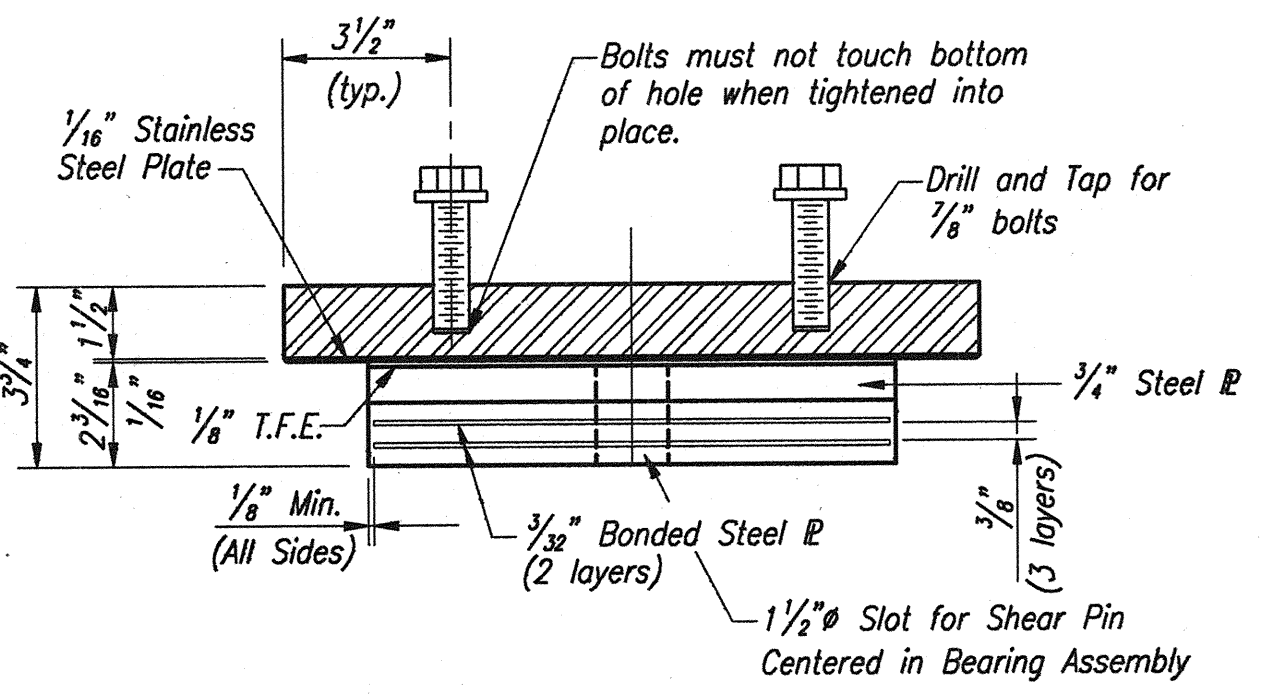
TYPICAL BEARING AREA - PIER NO. 4
Scale: 3/4" = 1'-0"



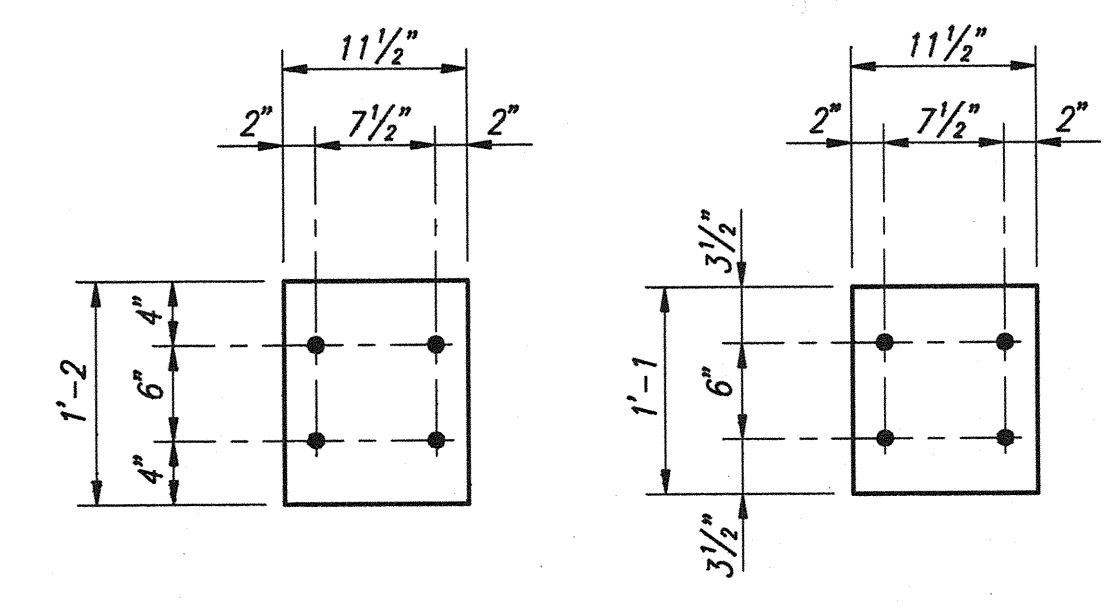
SECTION G1-G1



SECTION G2-G2
BENT NO. 5 - BEARING ASSEMBLY IV
No Scale

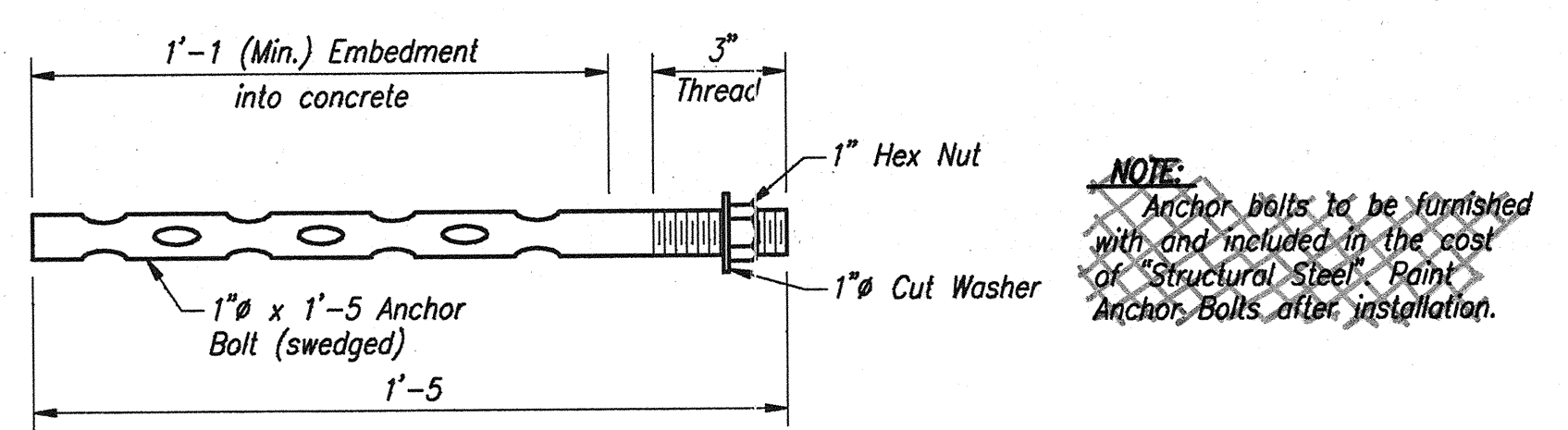


BEARING ASSEMBLY



SHIM PLATE DETAILS
Scale: 1" = 1'-0"

NOTE: Shim thickness to match existing shim thickness.



SWEDGED ANCHOR BOLT DETAIL
No Scale

NOTE: Anchor bolts to be furnished with and included in the cost of Structural Steel. Paint Anchor Bolts after installation.

NOTES:
Elastomeric expansion bearing assembly, anchor bolts, and side retainers are to be included in the cost of "Structural Steel - Bearing Assemblies".

Elastomeric bearing pads to be bonded to top plate - typical at all locations.

All dimensions of elastomeric portion of bearing assemblies shown are for the unloaded condition (non-compressed).

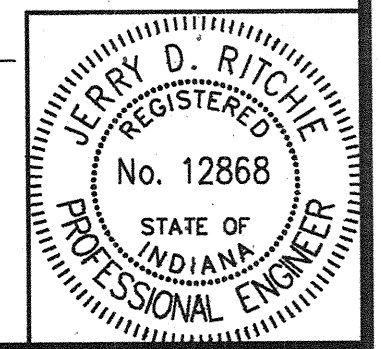
STRUCTURAL STEEL DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

SCALE: As Noted

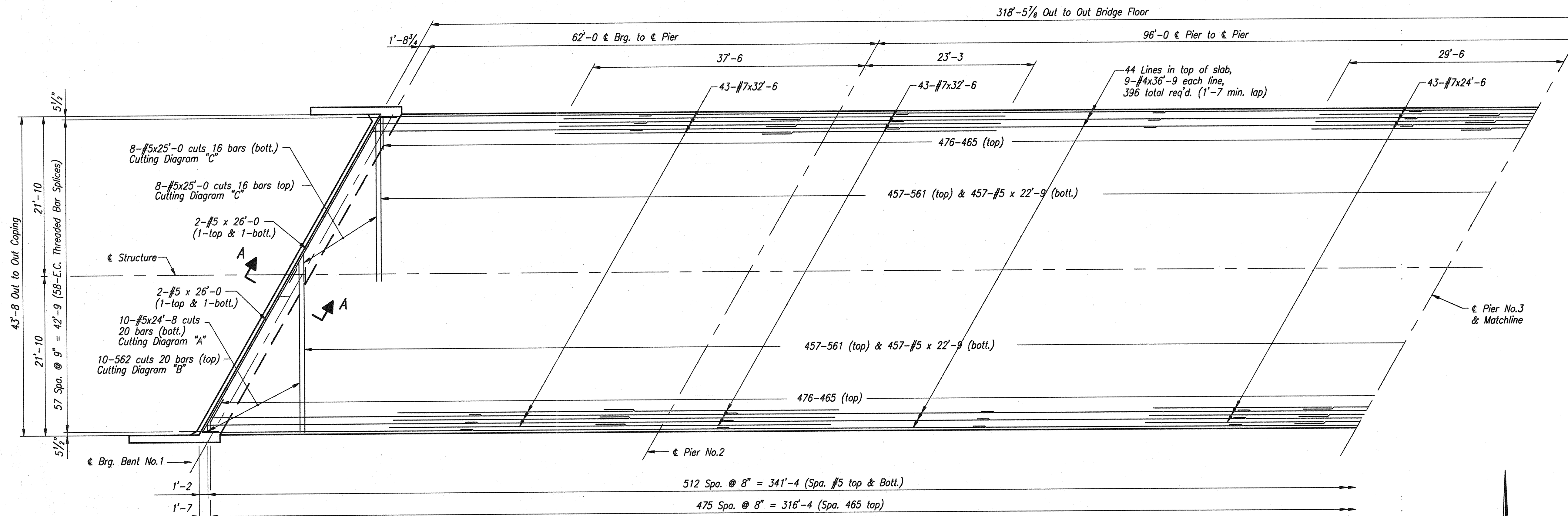
DATE: OCTOBER 17, 1995

Jerry D. Ritchie

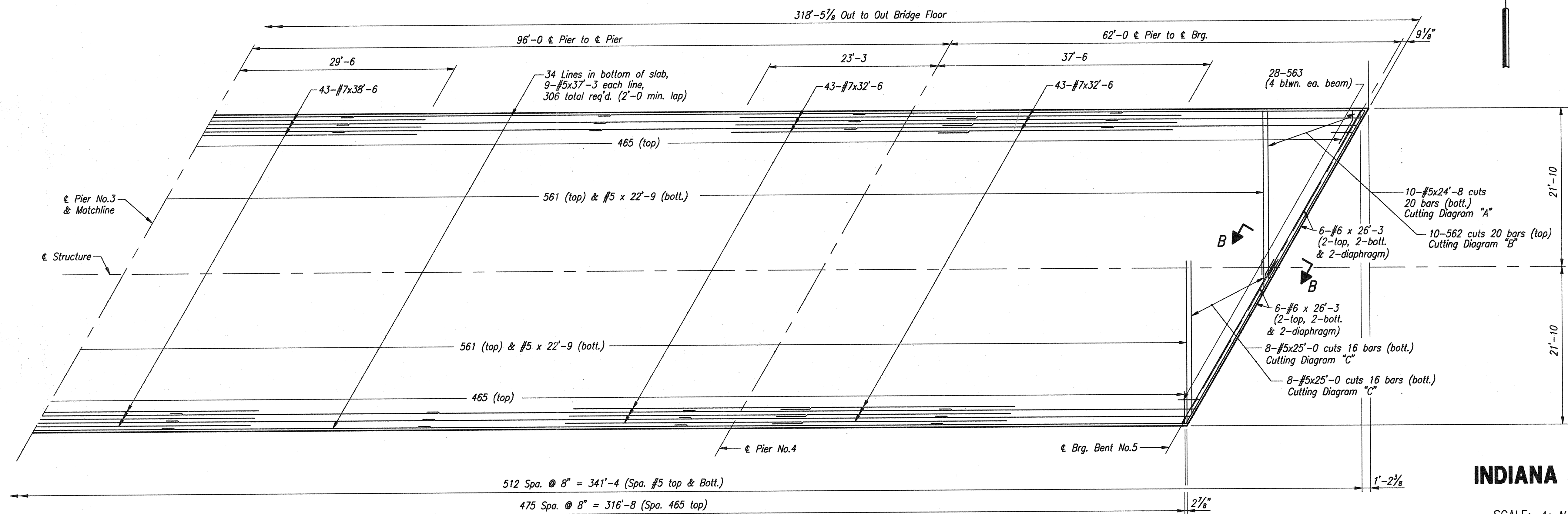
DRAWING: W19 OF W26 SHEET: 20 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: 1-74-14-2333D



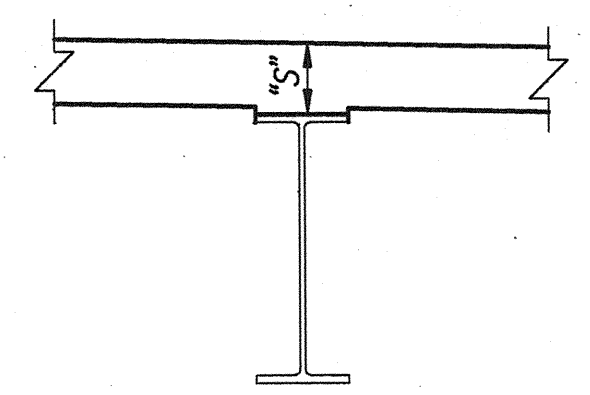
DESIGNED: M.W.C.	CHECKED: J.D.R.
DRAWN: D.W.B.	CHECKED: M.W.C.
TRACED:	CHECKED:



HALF PLAN
Scale: 1/8" = 1'-0"



HALF PLAN
Scale: 1/8" = 1'-0"



FILLET DETAIL
No Scale

Westbound	"S" @ Pier	Eastbound
Beam No. 1	8 1/4"	Beam No. 8
Beam No. 2	9"	Beam No. 7
Beam No. 3	9 1/8"	Beam No. 6
Beam No. 4	9 1/8"	Beam No. 5
Beam No. 5	10 1/2"	Beam No. 4
Beam No. 6	9 7/8"	Beam No. 3
Beam No. 7	9 1/4"	Beam No. 2
Beam No. 8	9"	Beam No. 1

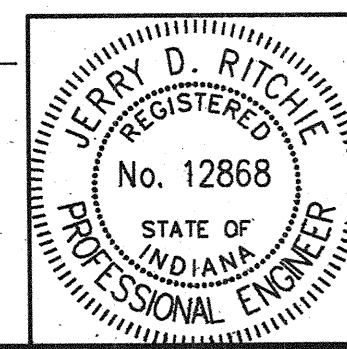
NOTES:
 For Reinforcing Bar Notes, see Bridge Standard C1.
 For Type "A" Construction Joint, see Bridge Standard C3.
 For Typical Section, Bill Of Materials, & additional superstructure details, see Dwg. W22.
 After structural steel has been erected, concrete forms shall not be blocked against the expansion end of steel in making any pours adjacent to steel spans.
 For Concrete Barrier Railing Details, see Dwg. W23-W26.
 Screenshot data will be furnished upon request.
 For Section "A-A", see Dwg. W21.
 For Section "B-B", see Dwg. W21.

SUPERSTRUCTURE DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
 FOUNTAIN COUNTY

SCALE: As Noted
 DATE: OCTOBER 17, 1995

Jerry D. Ritchie

DRAWING: W20 OF W26 SHEET: 21 OF 36
 PROJECT: IM-74-1(115)0
 BRIDGE CONTRACT NO. R-21467
 BRIDGE FILE: I-74-14-2333D



DESIGNED	M.W.C.	CHECKED	J.D.R.
DRAWN	D.W.B.	CHECKED	J.D.R.
TRACED		CHECKED	

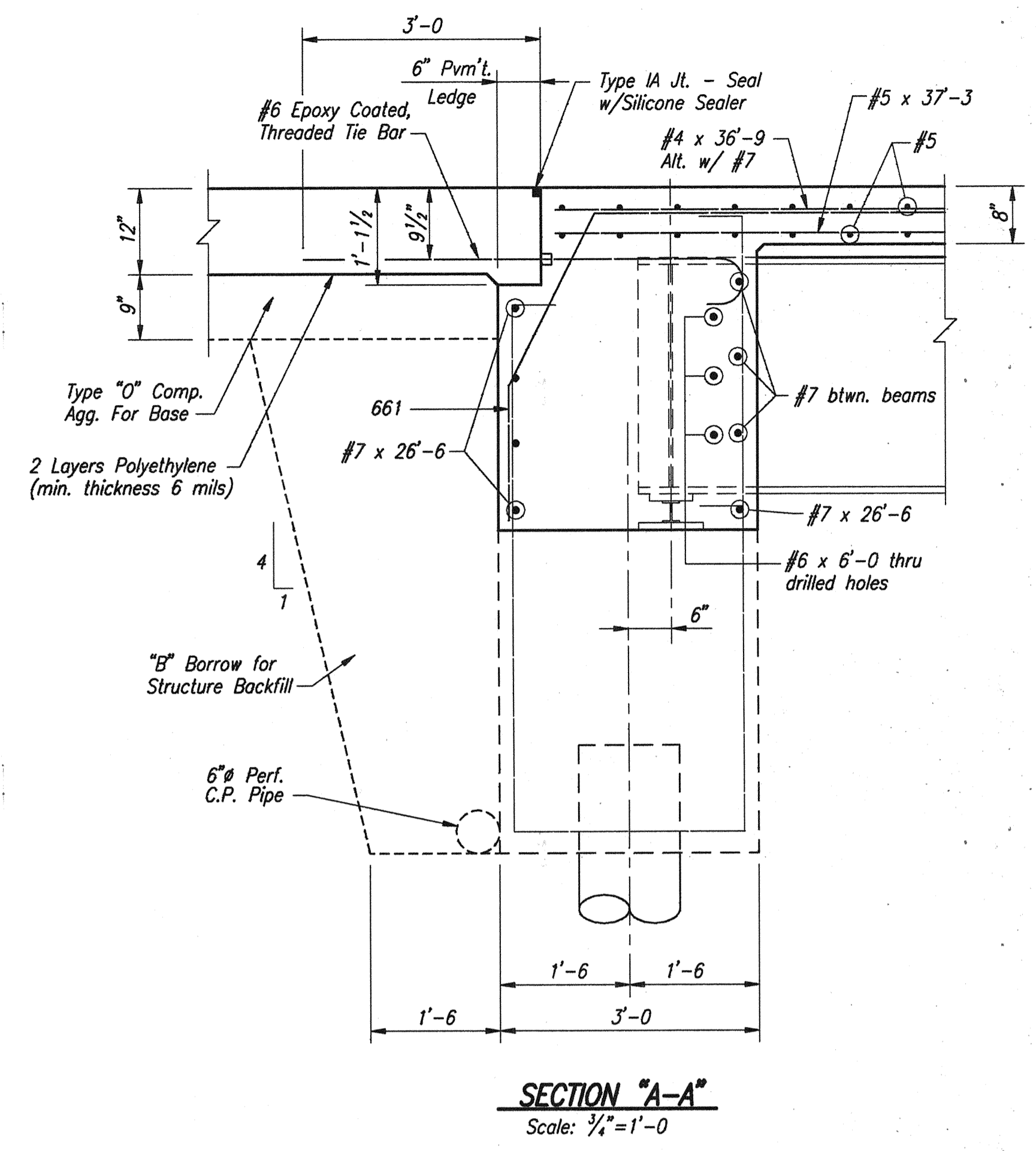
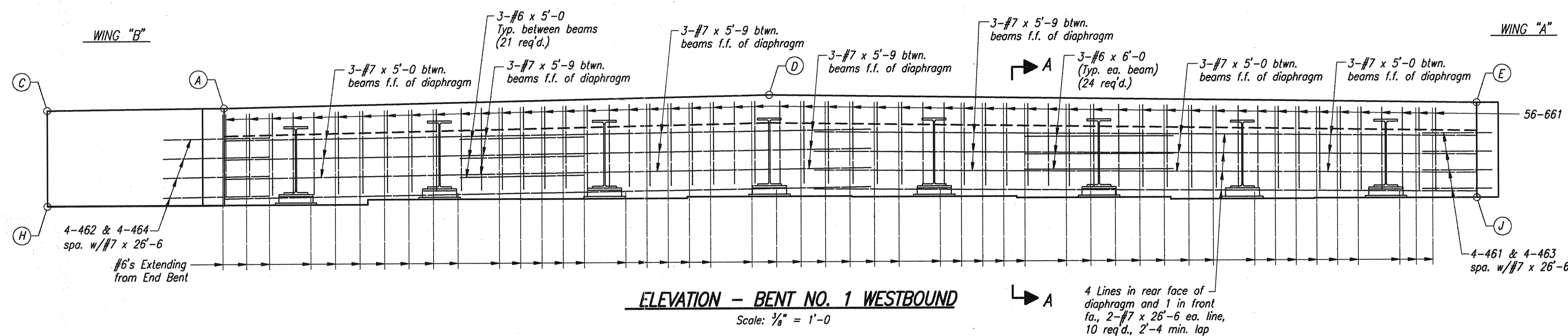
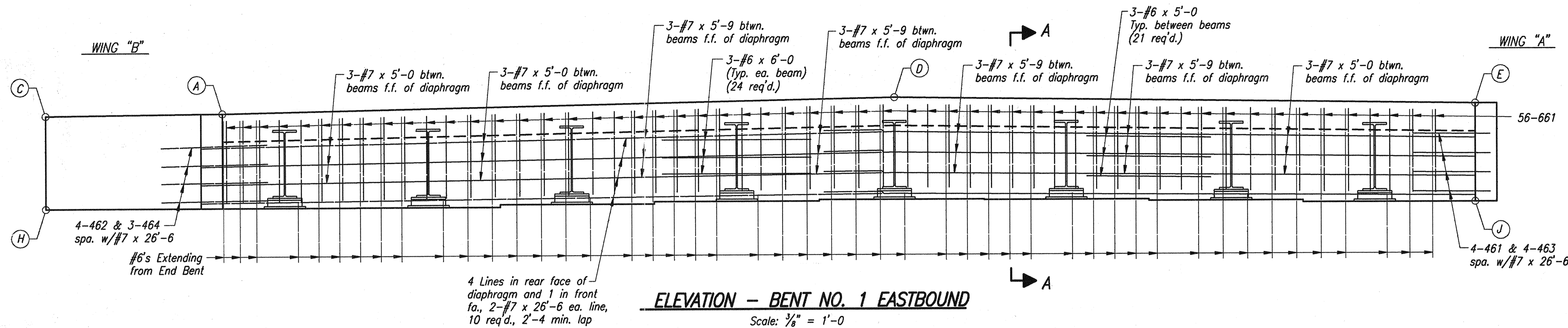
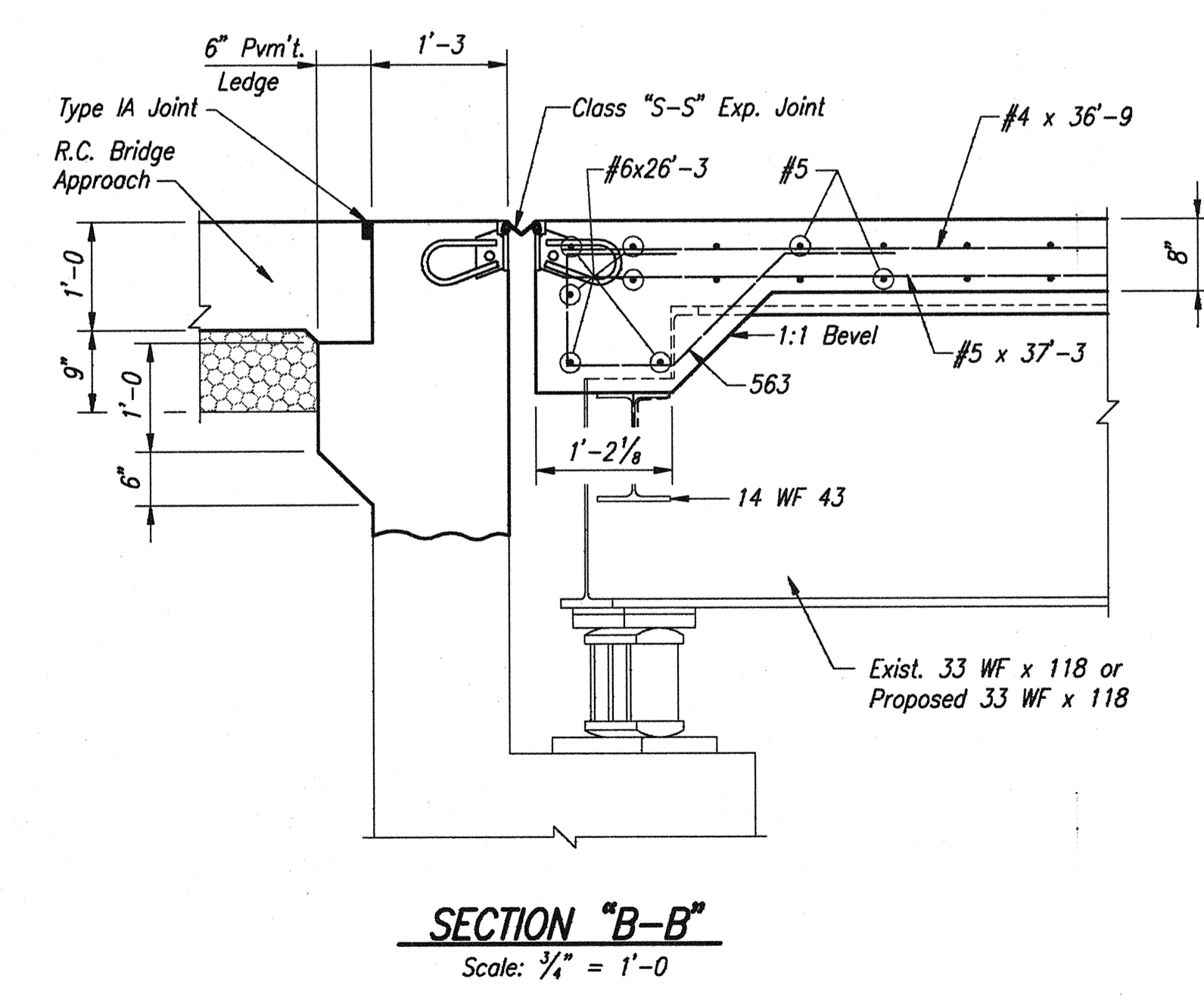
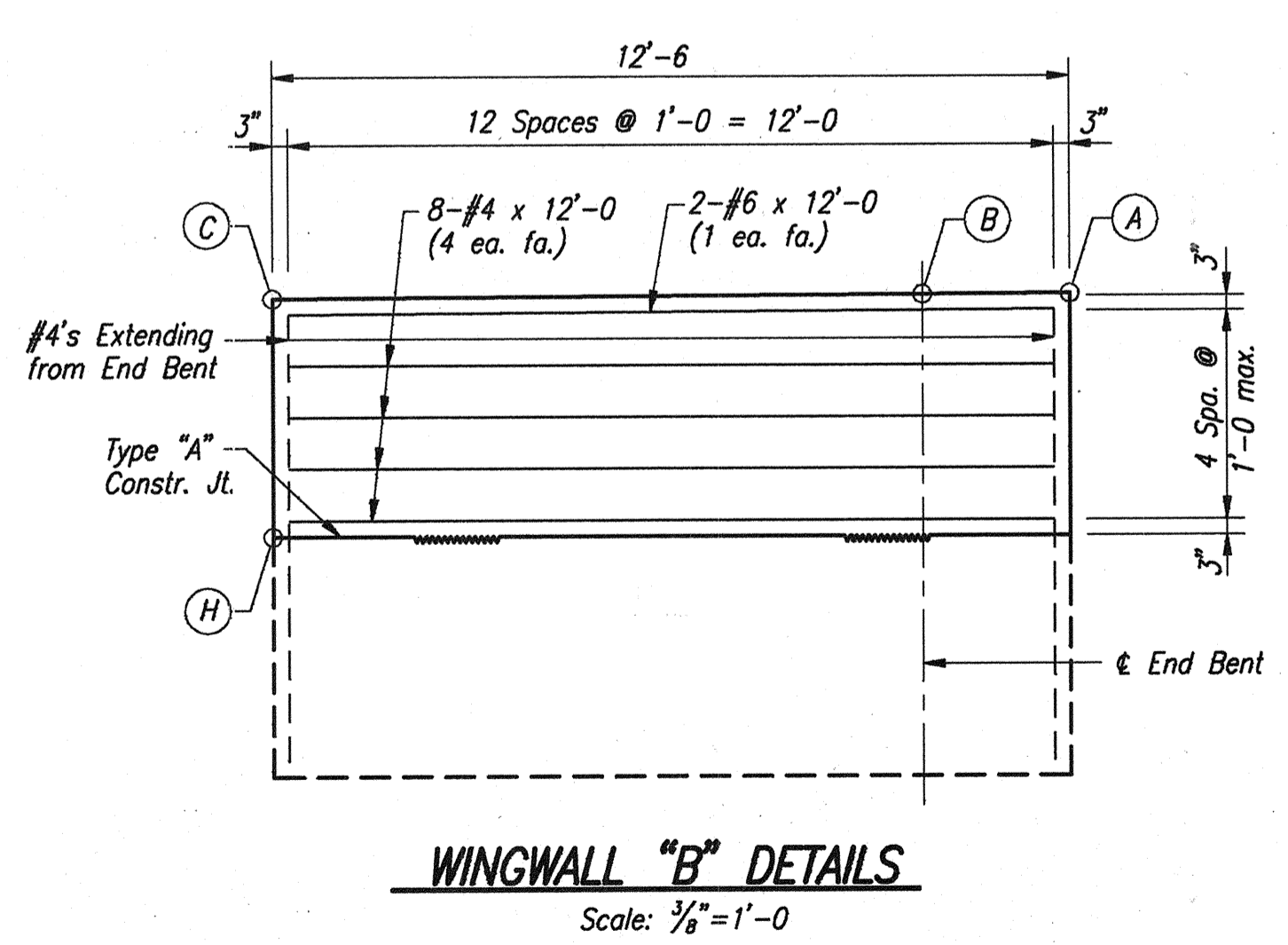
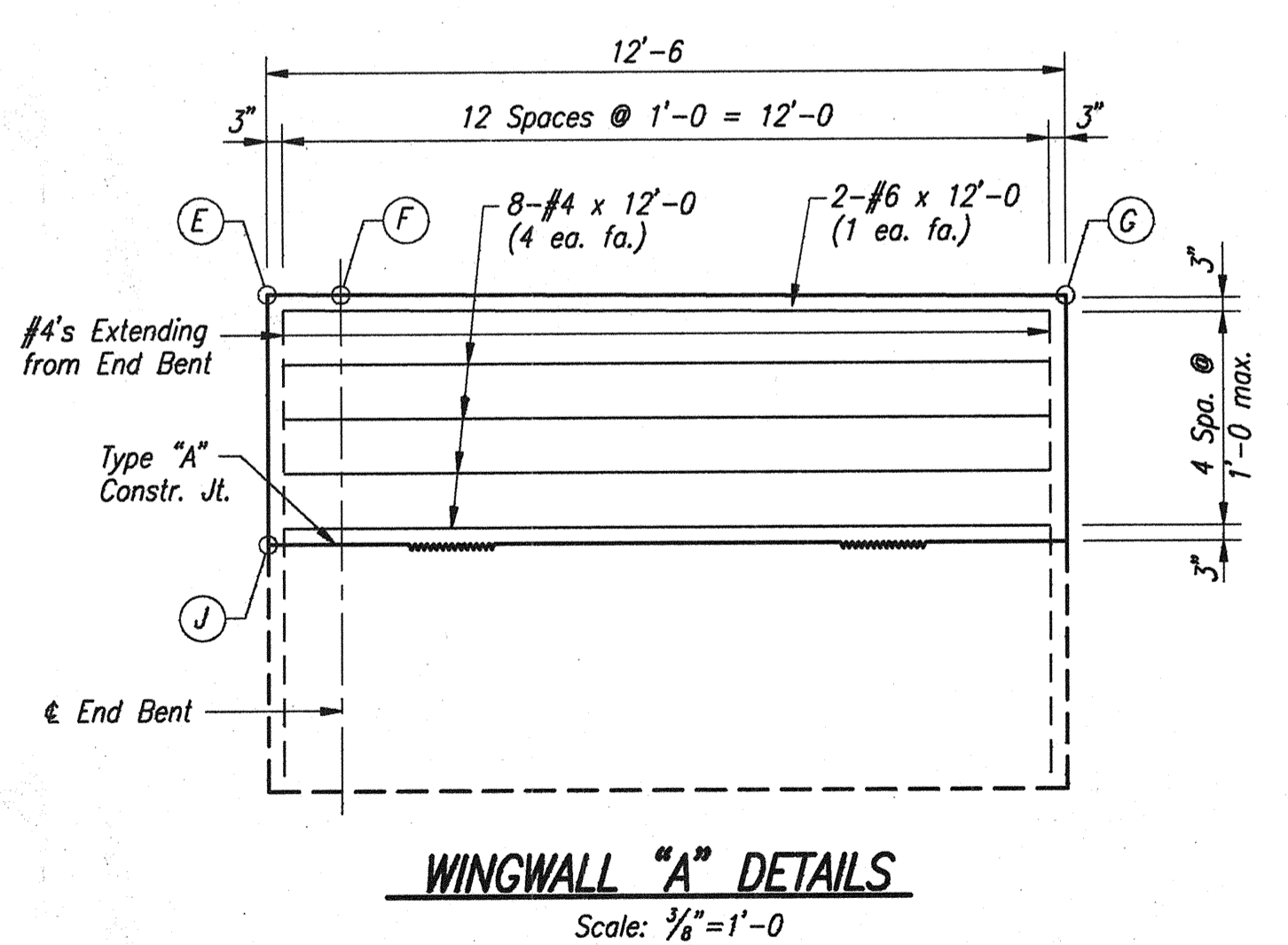


TABLE OF ELEVATIONS		
POINT	EASTBOUND	WESTBOUND
A	617.640	617.970
B	617.635	617.960
C	617.575	617.910
D	618.190	618.410
E	617.870	618.000
F	617.860	617.990
G	617.805	617.940
H	613.795	614.105
J	613.980	613.140



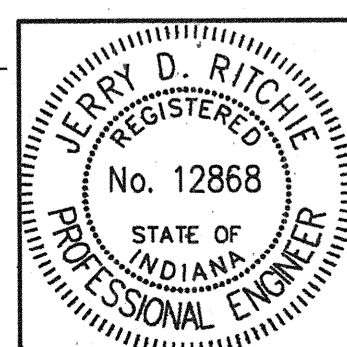
NOTES:
 For Reinforcing Bar Notes, see Br. Std. C1.
 For Type "A" Constr. Jt., see Br. Std. C3.
 For Additional Superstructure Details, see Dwg. Nos. W20 & W22

SUPERSTRUCTURE DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
 FOUNTAIN COUNTY

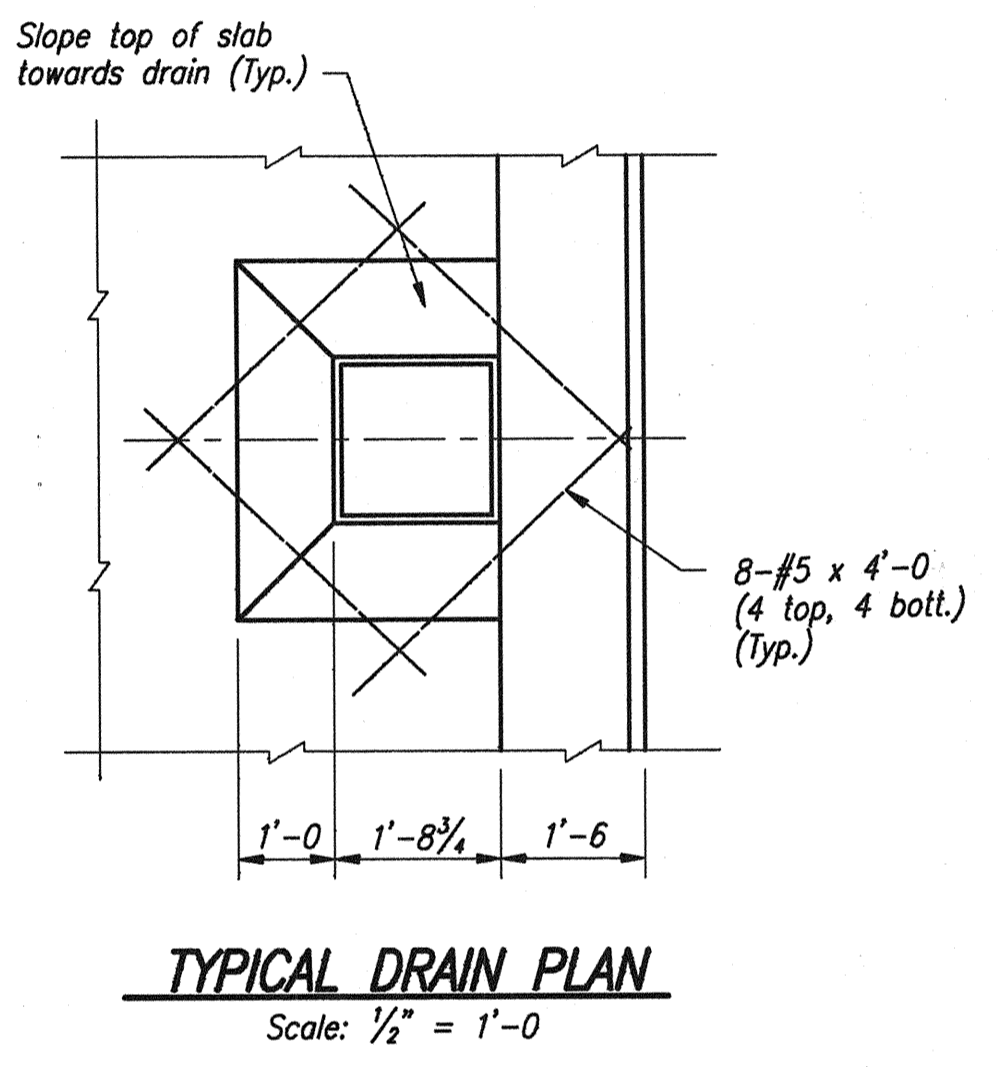
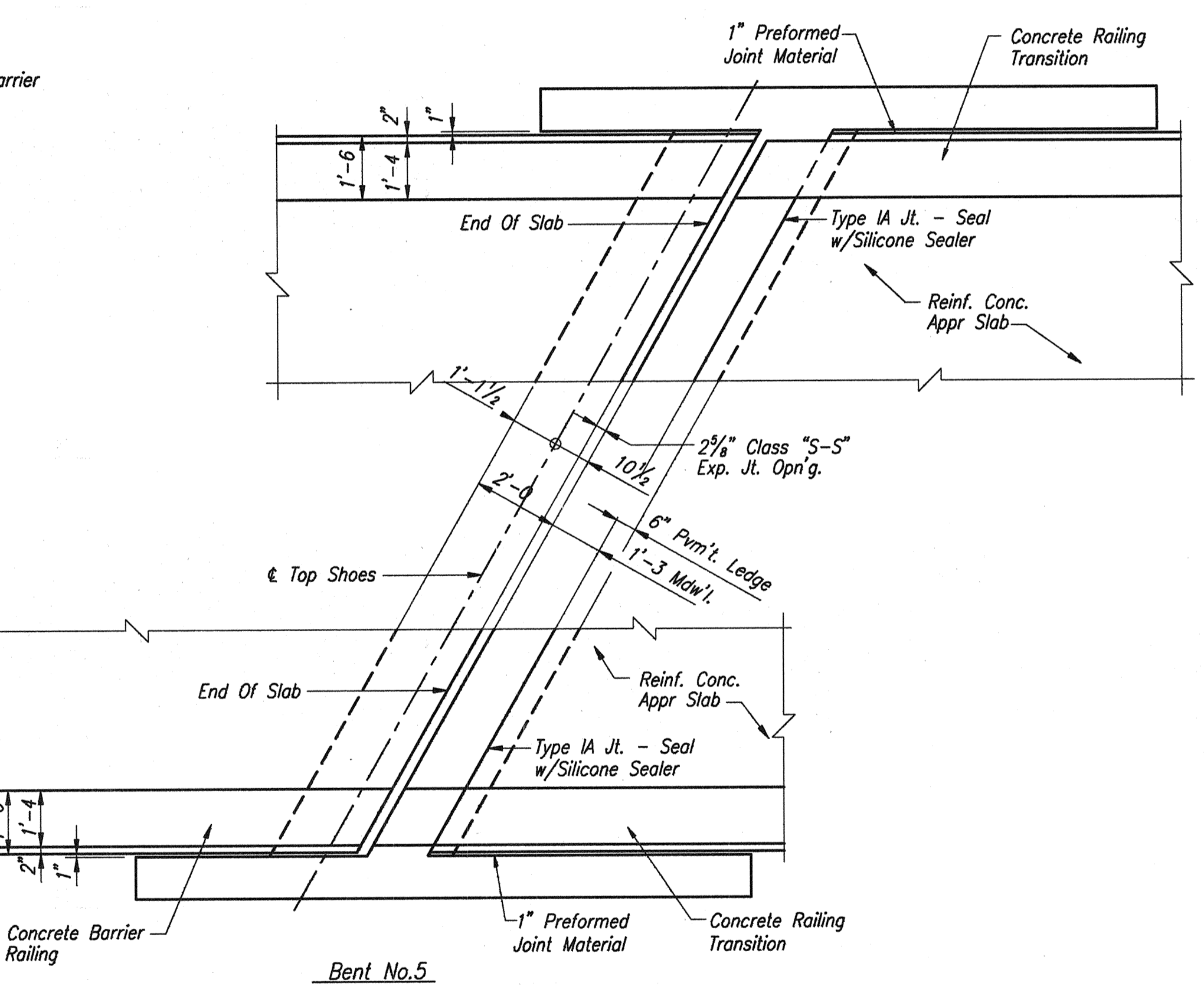
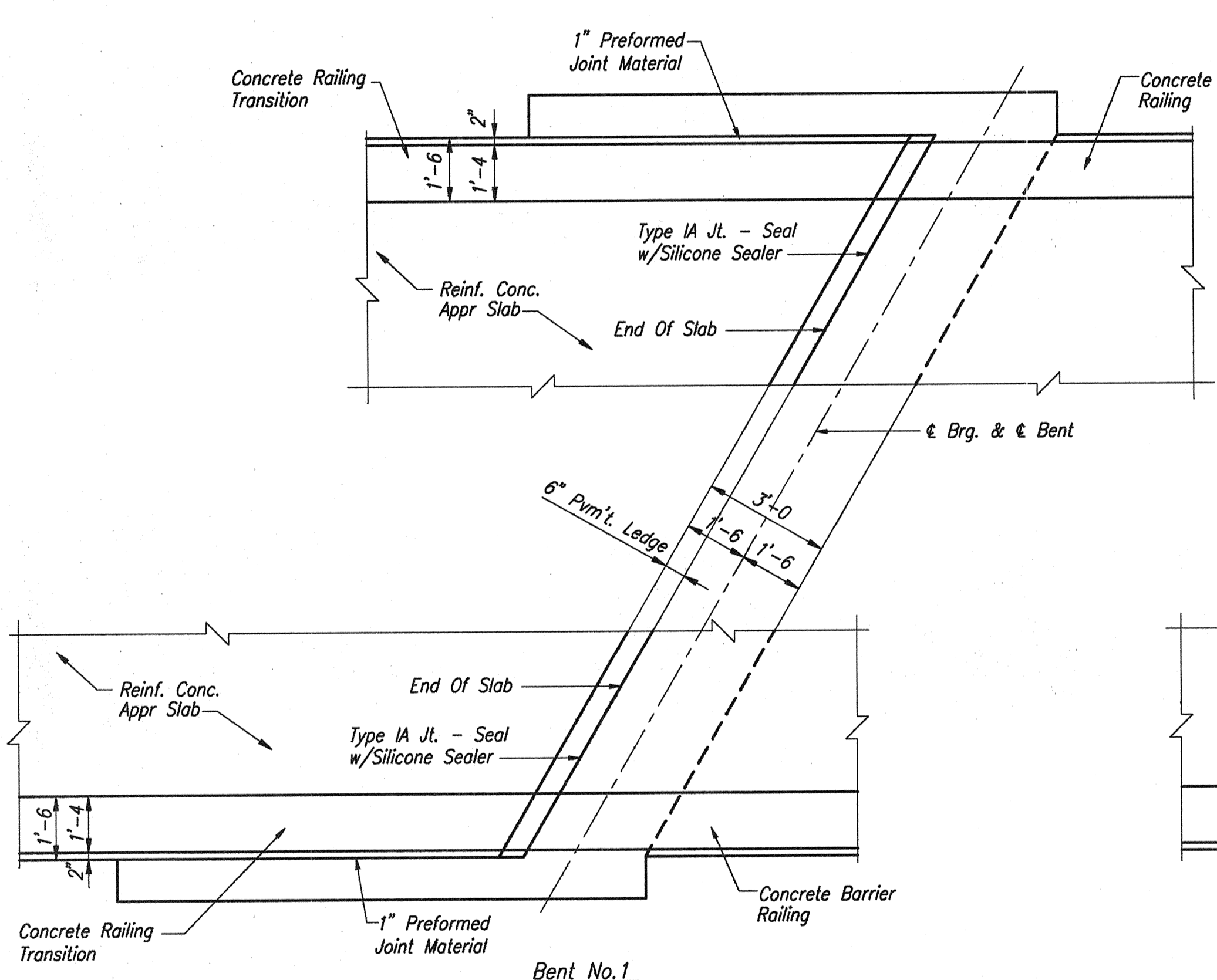
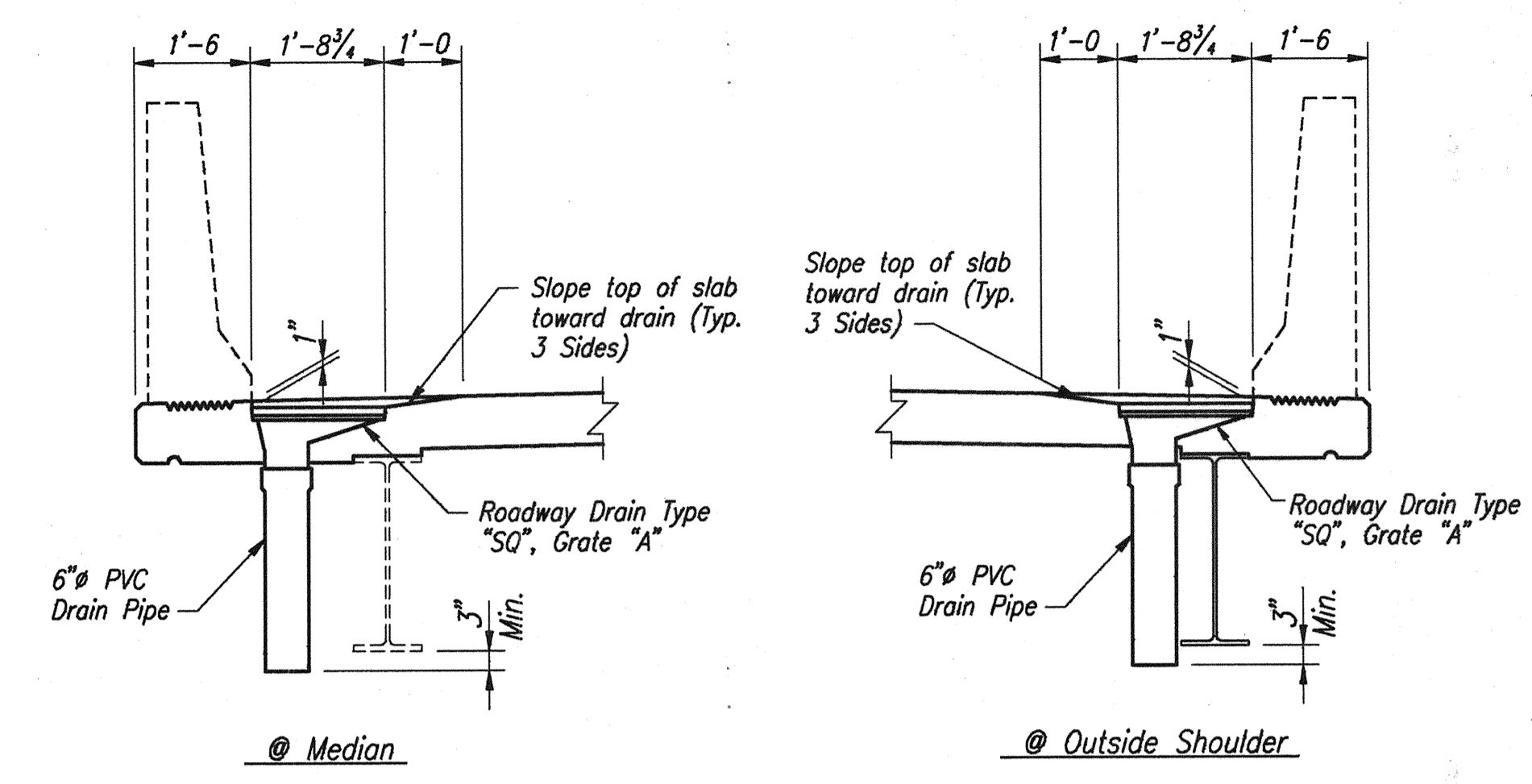
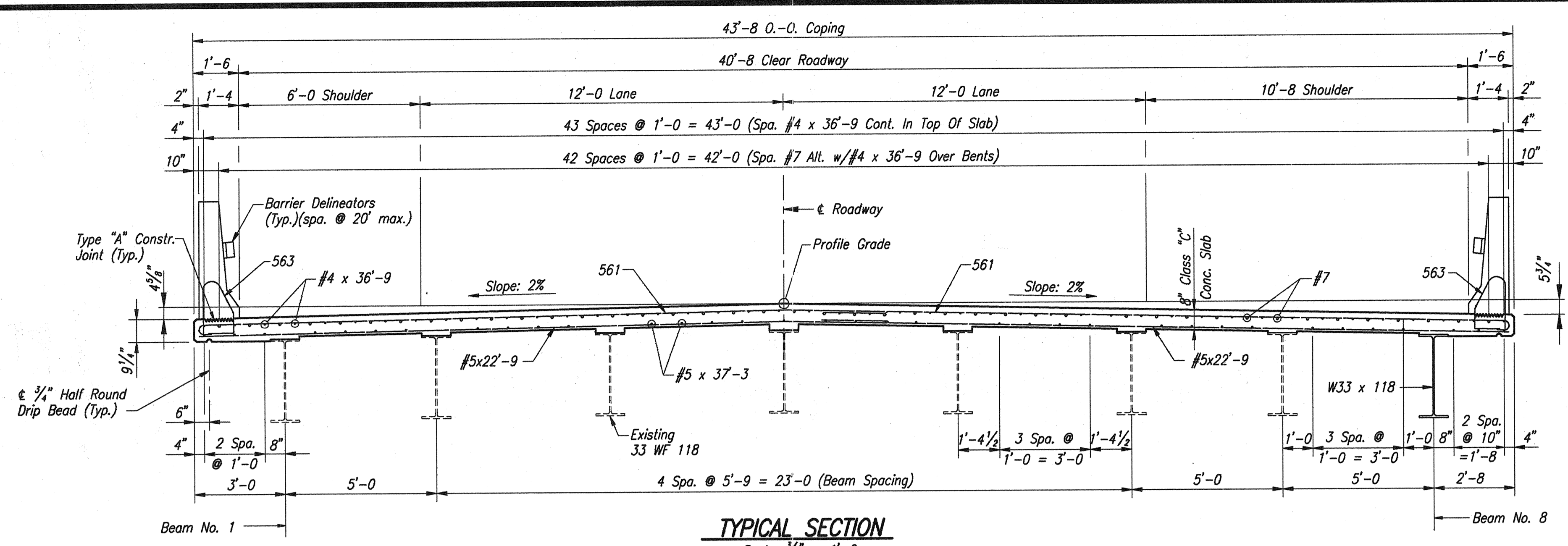
SCALE: As Noted DATE: OCTOBER 17, 1995

Jerry D. Ritchie

DRAWING: W21 OF W26 SHEET: 22 OF 36
 PROJECT: IM-74-1(115)0
 BRIDGE CONTRACT NO. R-21467
 BRIDGE FILE: I-74-14-2333D

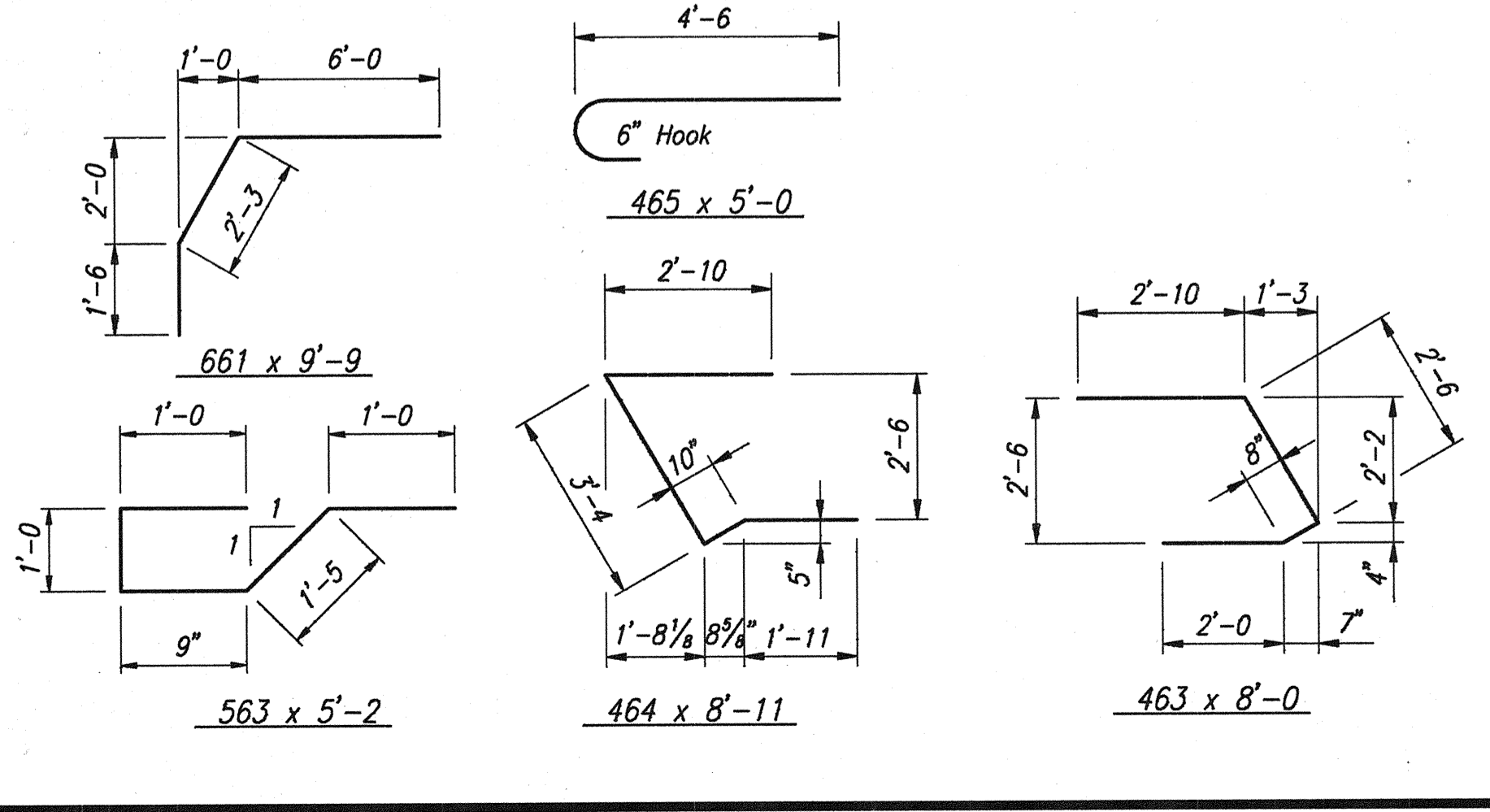
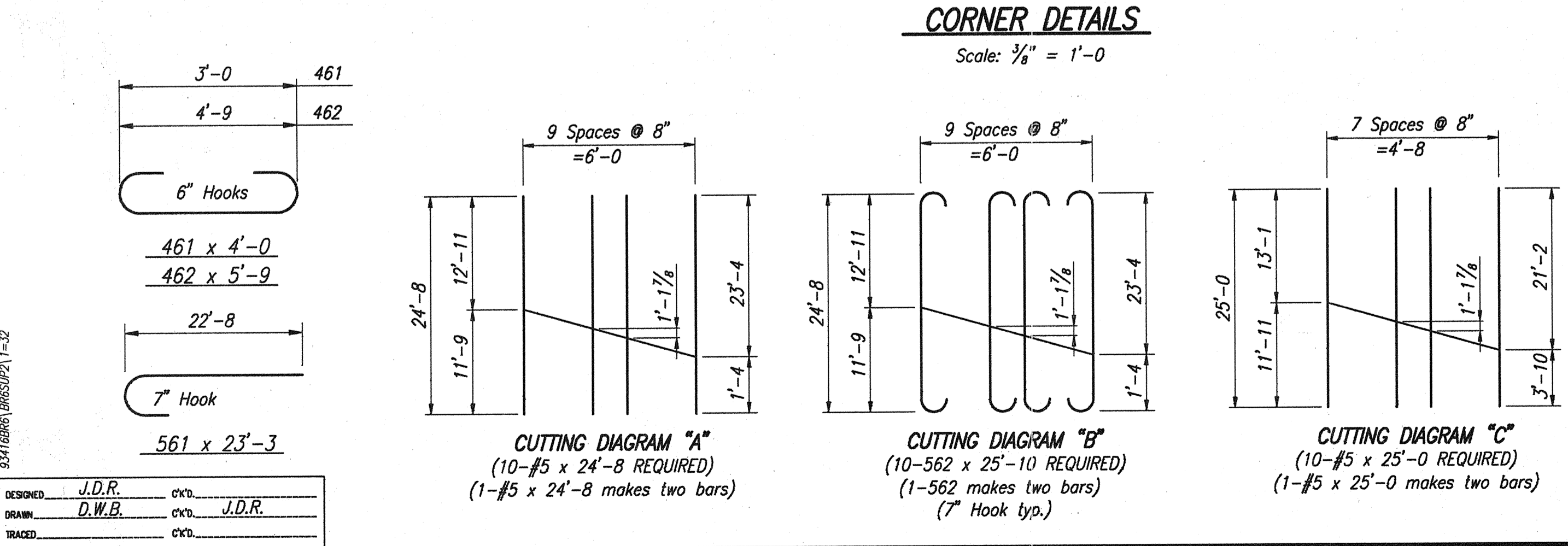


DESIGNED: D.W.B. CHKD: J.D.R.
 DRAWN: D.W.B. CHKD: J.D.R.



BILL OF MATERIALS
SUPERSTRUCTURE—WESTBOUND
(EASTBOUND SAME)

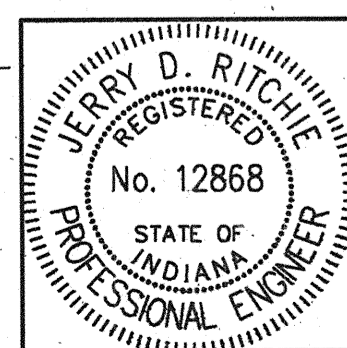
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
#7	43	38'-6"	
#7	172	32'-6"	
#7	10	26'-6"	
#7	43	24'-6"	
#7	12	5'-9"	
#7	9	5'-0"	
Total #7			17,738
661	56	9'-9"	
#6	12	26'-3"	
#6	4	12'-0"	
#6	24	6'-0"	
#6	21	5'-0"	
Total #6			1,739
561	914	23'-3"	
562	20	25'-10"	
563	28	5'-2"	
#5	306	37'-3"	
#5	4	26'-0"	
#5	32	25'-0"	
#5	20	24'-8"	
#5	914	22'-9"	
#5	96	4'-0"	
Total #5			58,288
461	4	4'-0"	
462	4	5'-9"	
463	4	8'-0"	
464	4	8'-11"	
465	952	5'-0"	
#4	396	36'-9"	
#4	16	12'-0"	
Total #4			13,101
Total Epoxy Coated Reinforcing			90,866
CONCRETE			
Class "C" Concrete In Superstructure			376.6 Cys.
MISCELLANEOUS			
E.C. Threaded Bar Splices			58 Ea.
Field Drilled Holes			21 Ea.
Standard Roadway Drains, Type "SQ-A" 12 @ 192			2304 Lbs.
6" P.V.C. Drain Pipe			36 Lft.



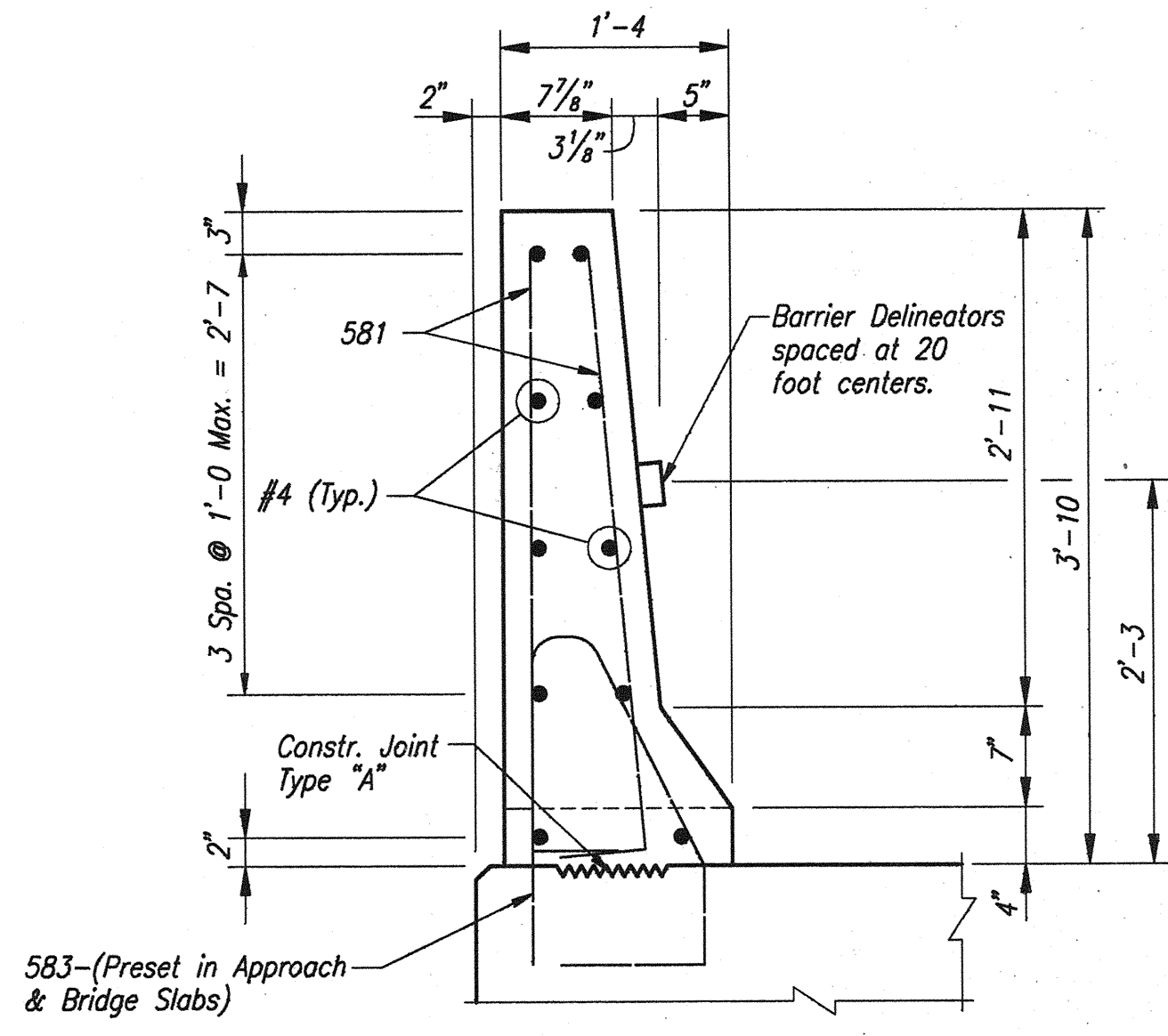
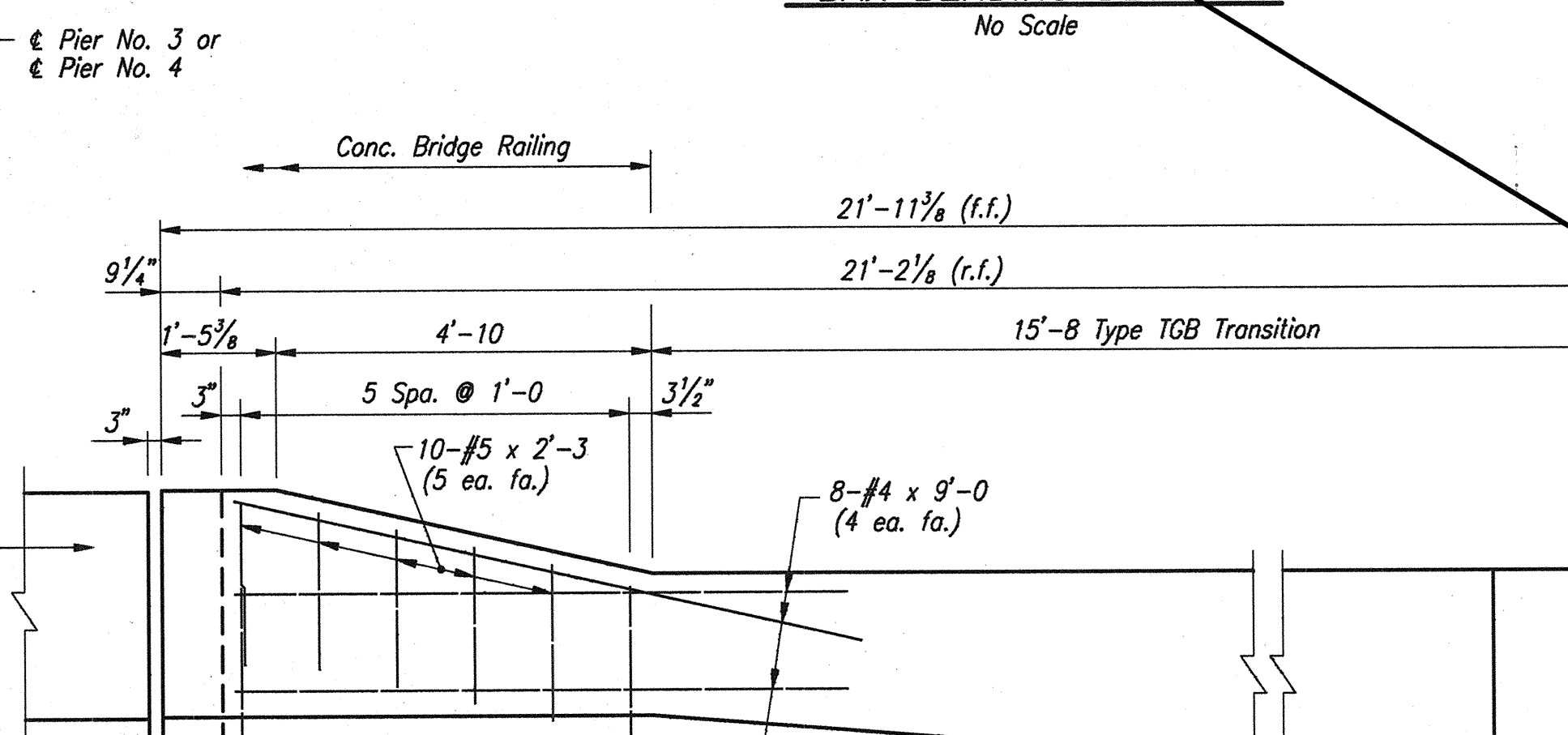
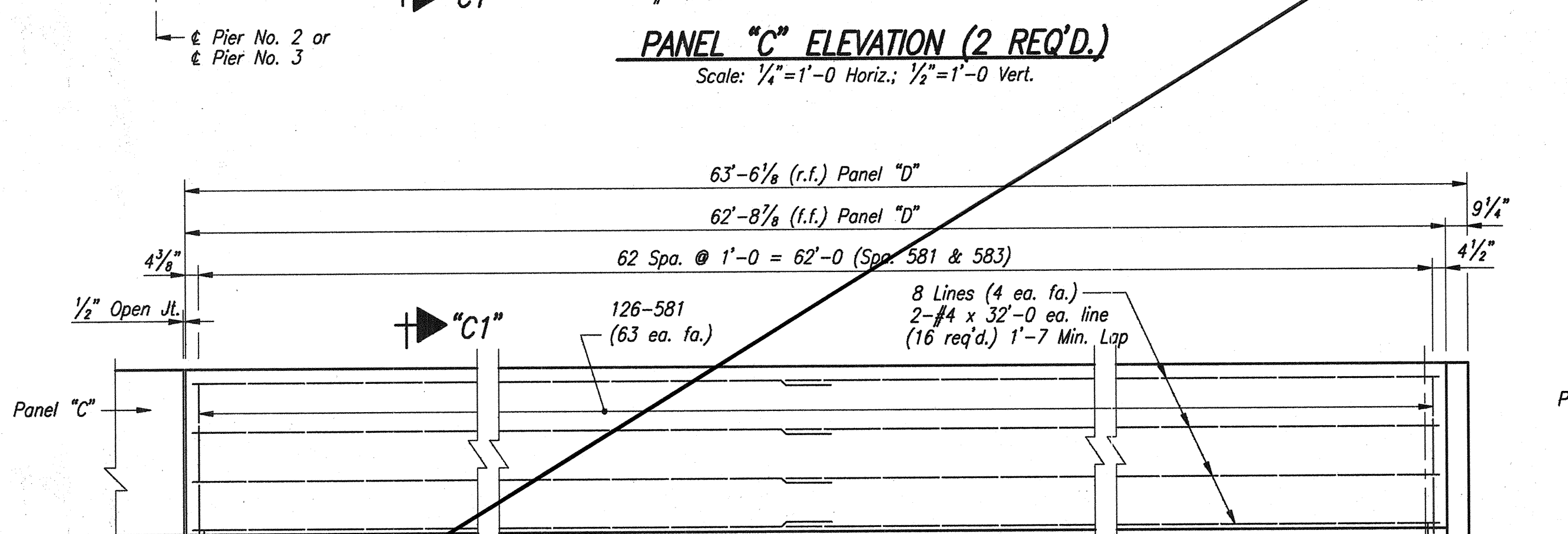
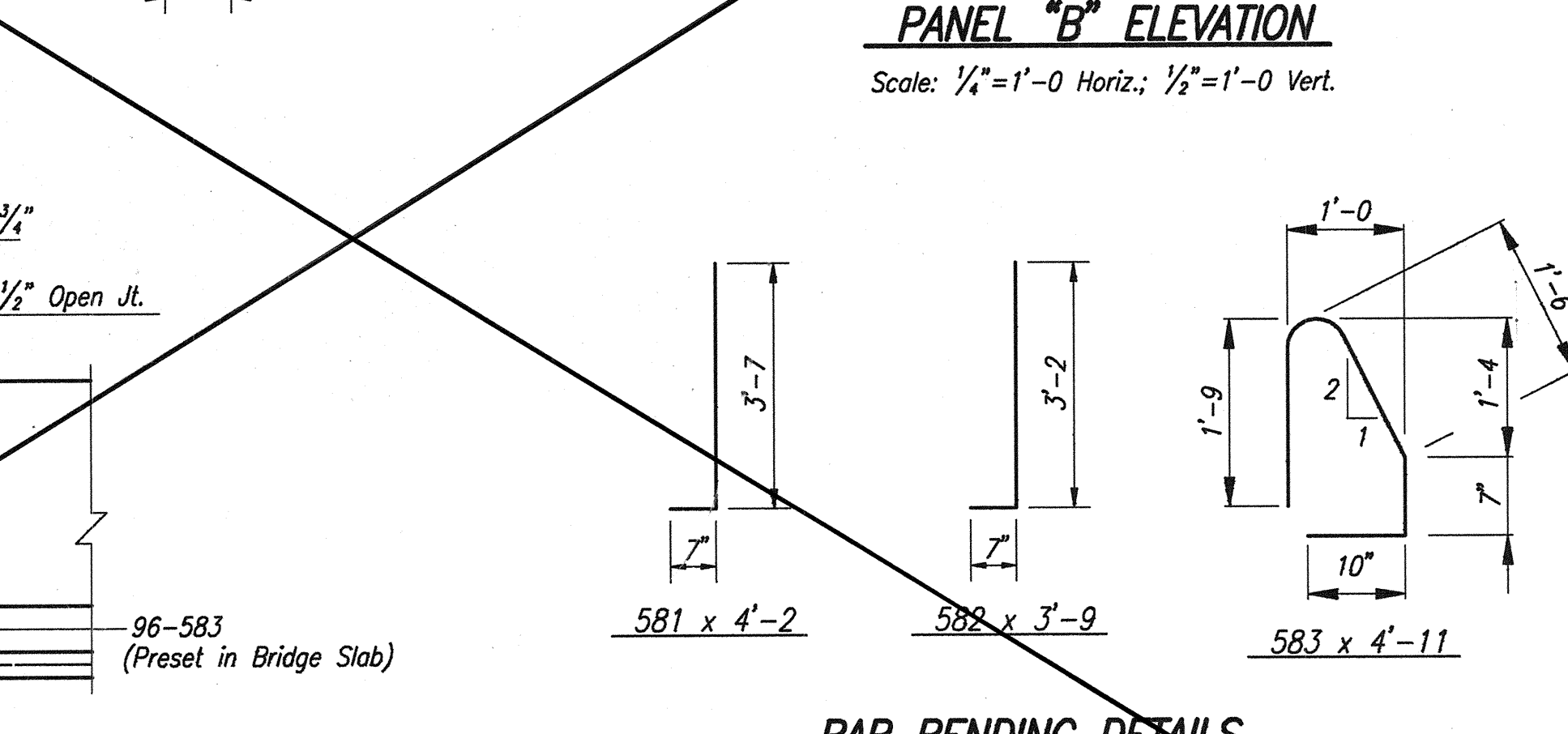
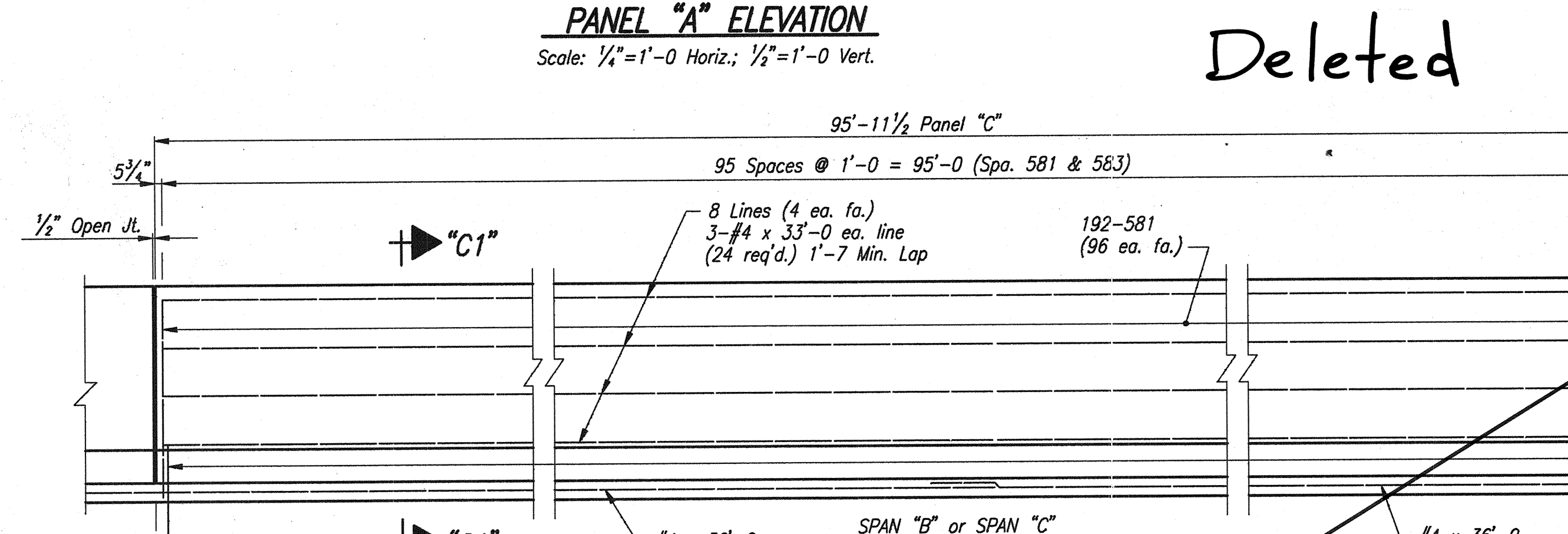
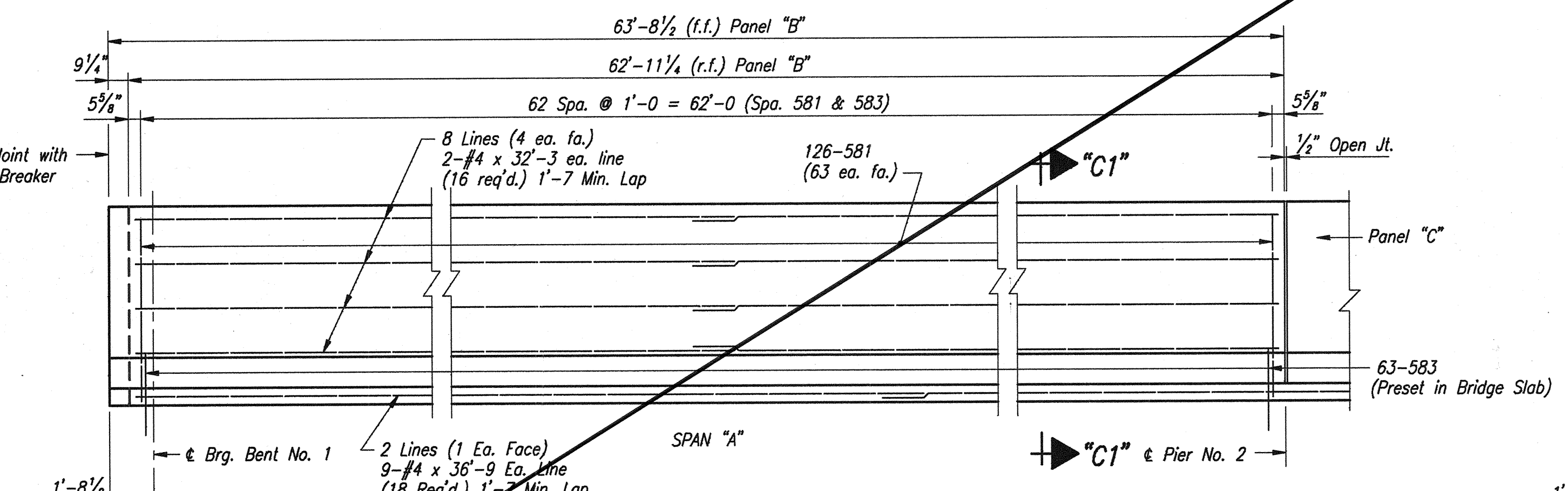
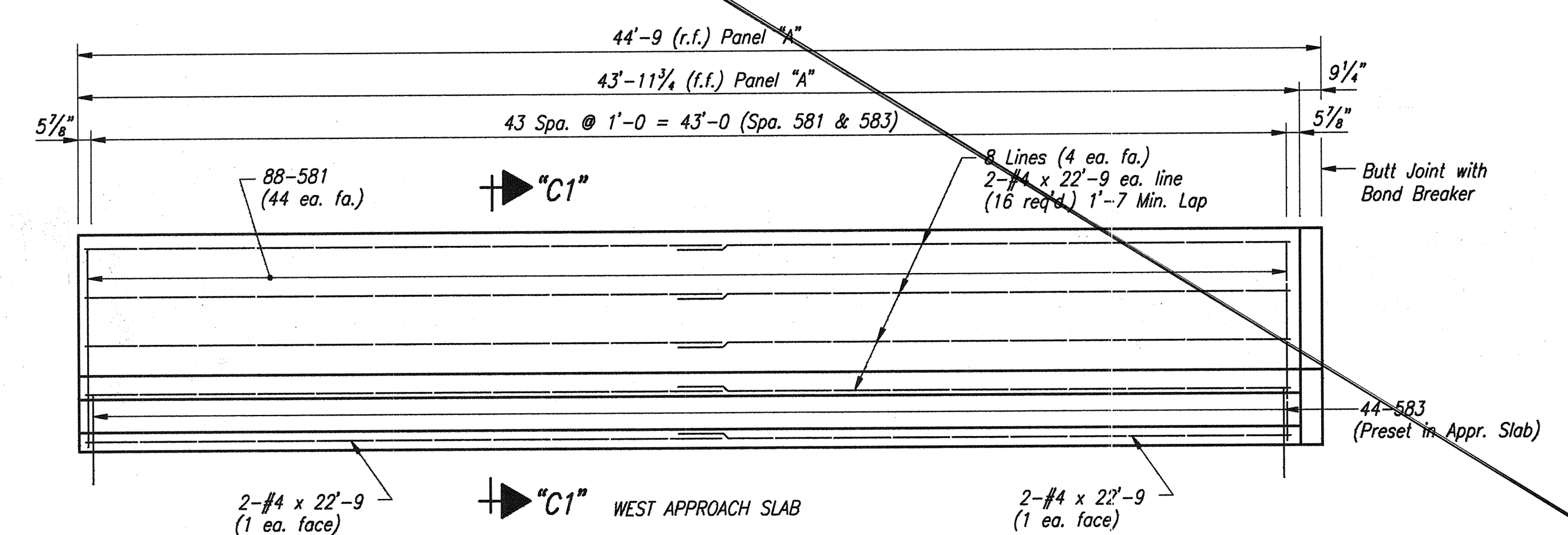
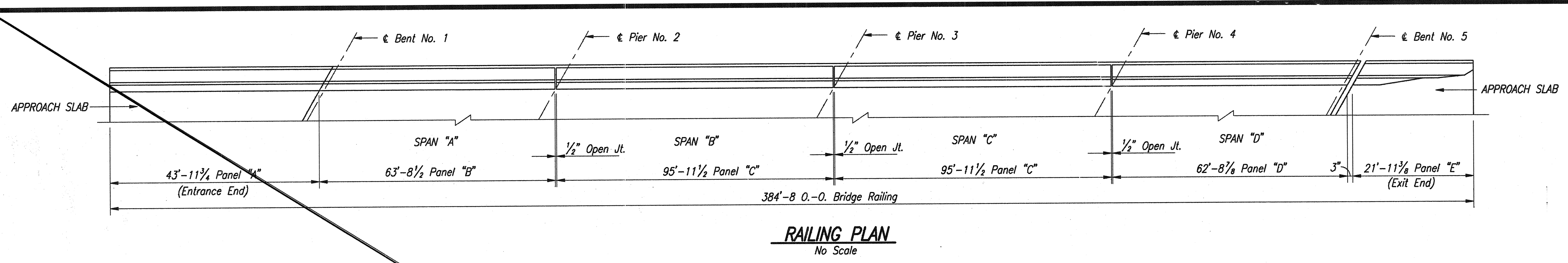
SUPERSTRUCTURE DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

SCALE: As Noted
DATE: OCTOBER 17, 1995
DRAWING: W22 OF W26 SHEET: 23 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: I-74-14-2333D

Jerry D. Ritchie



DESIGNED: J.D.R. ckb.
DRAWN: D.W.B. ckb. J.D.R.
CHECKED: ckb.



BILL OF MATERIALS			
CONCRETE BARRIER RAILING			
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
581	774	4'-2"	
582	12	3'-9"	
583	362	4'-11"	
#5	10	2'-3"	
Total #5			5,073
#4	18	36'-9"	
#4	48	33'-0"	
#4	16	32'-3"	
#4	16	32'-0"	
#4	20	22'-9"	
#4	8	9'-0"	
Total #4			2,539
Total Epoxy Coated Reinforcing			7,612
CONCRETE			
Class "C" Concrete In Railing			46.2 Cys.
MISCELLANEOUS			
Concrete Bridge Rail Transition, Type TGB			1 Each
Barrier Delineators			19 Each

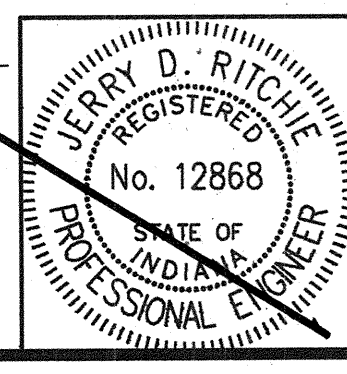
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NOTES:
For Reinforcing Bar Notes, see Bridge Standard Sheet C1.
For TGB Transition Details, see Bridge Standard BR-1.

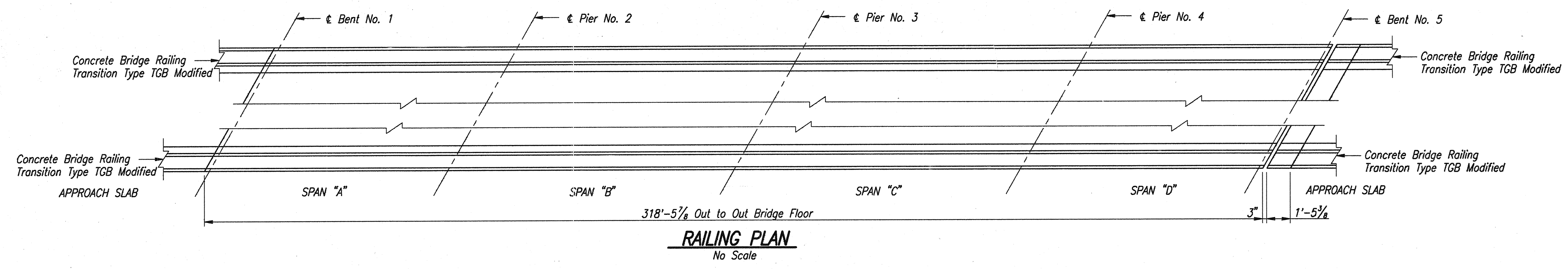
CONCRETE BARRIER RAILING
EASTBOUND-NORTH COPING
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

SCALE: As Noted DATE: OCTOBER 17, 1995

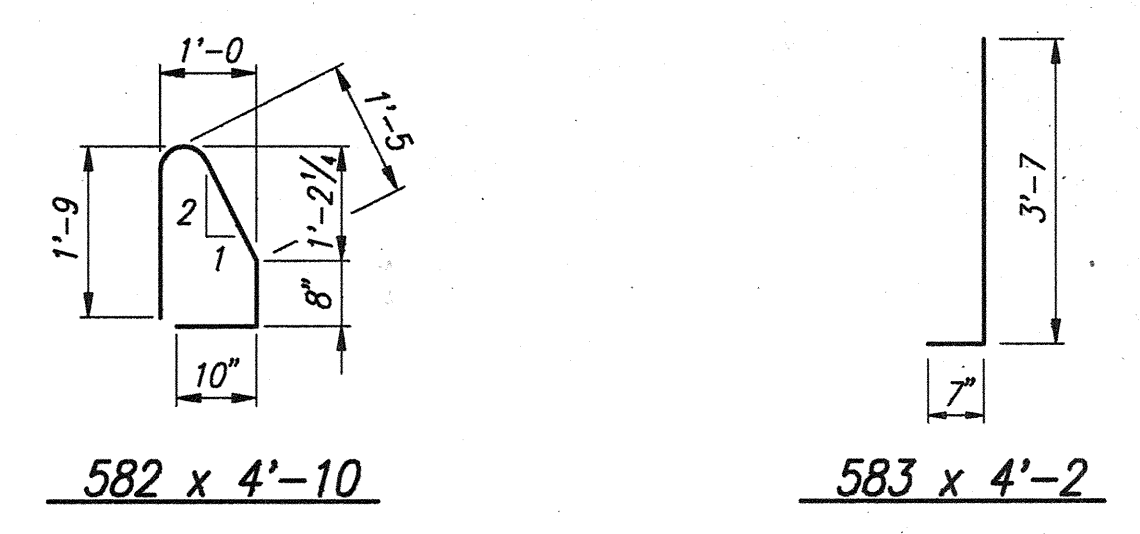
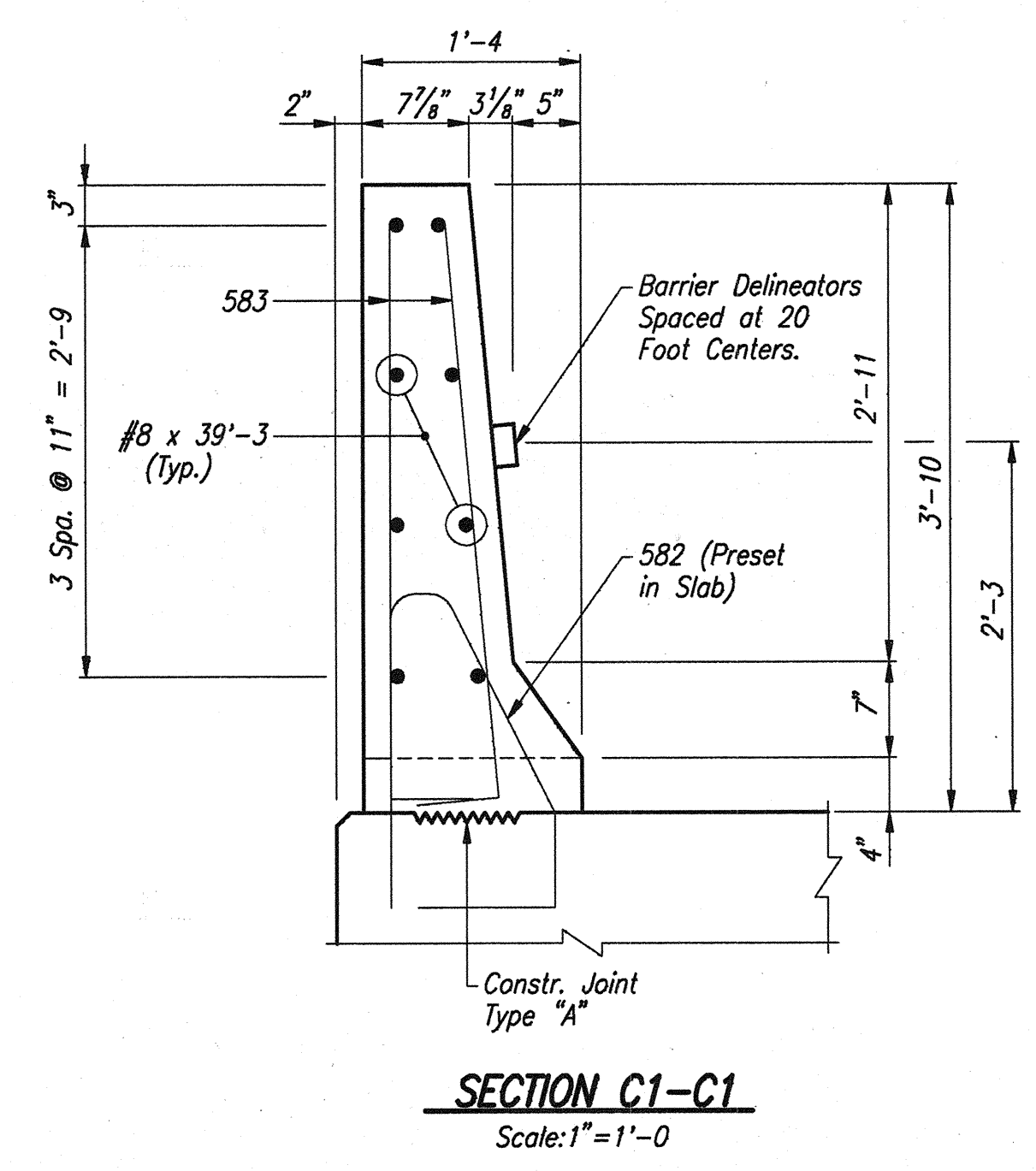
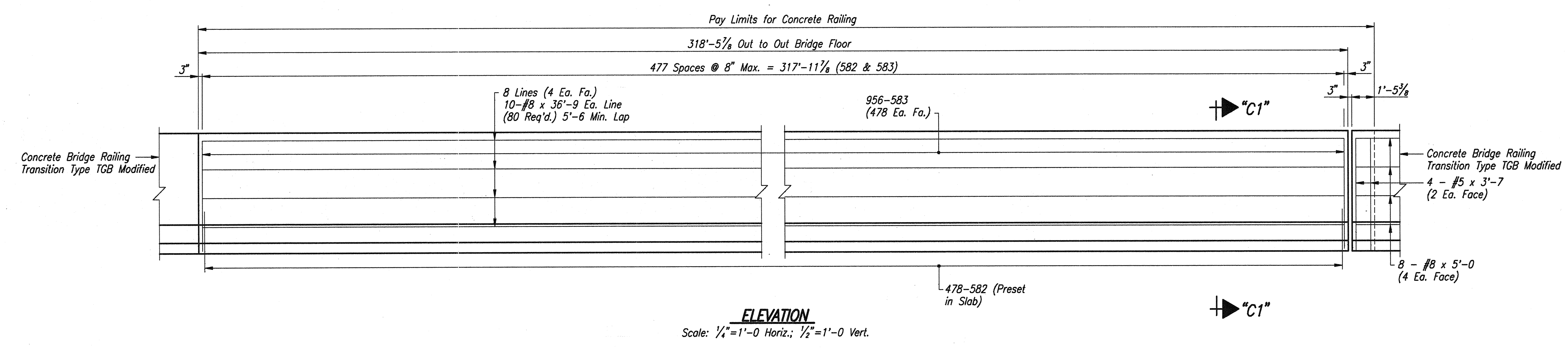
DRAWING: W23 OF W26 SHEET: 24 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: 1-74-14-2333D



DESIGNED: M.W.C. CVD.
DRAWN: M.W.C. CVD.



BILL OF MATERIALS			
CONCRETE BARRIER RAILING			
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
#8	80	36'-9"	
#8	8	5'-0"	
Total #5			7,957
582	478	4'-10"	
583	956	4'-2"	
#5	4	3'-7"	
Total #5			6,579
Total Epoxy Coated Reinforcing			14,536
CONCRETE			
Class "C" Concrete In Railing			40.0 Cys.
MISCELLANEOUS			
Concrete Bridge Rail Transition, Type TGB			2 Each
Barrier Delineators			17 Each

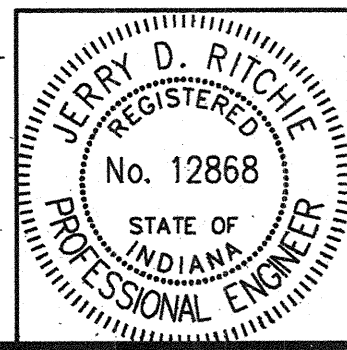


NOTES:
For Reinforcing Bar Notes, see Bridge Standard Sheet C1.
For TGB Transition Details, see Sheet 25A

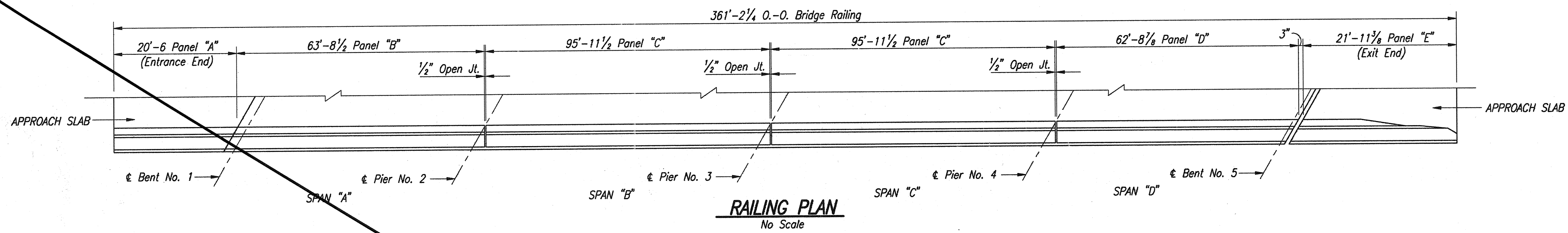
CONCRETE BARRIER RAILING
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

SCALE: As Noted DATE: November 7, 1995

Jerry D. Ritchie
DRAWING: W23 OF W26 SHEET: 24A OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: 1-74-14-2333D

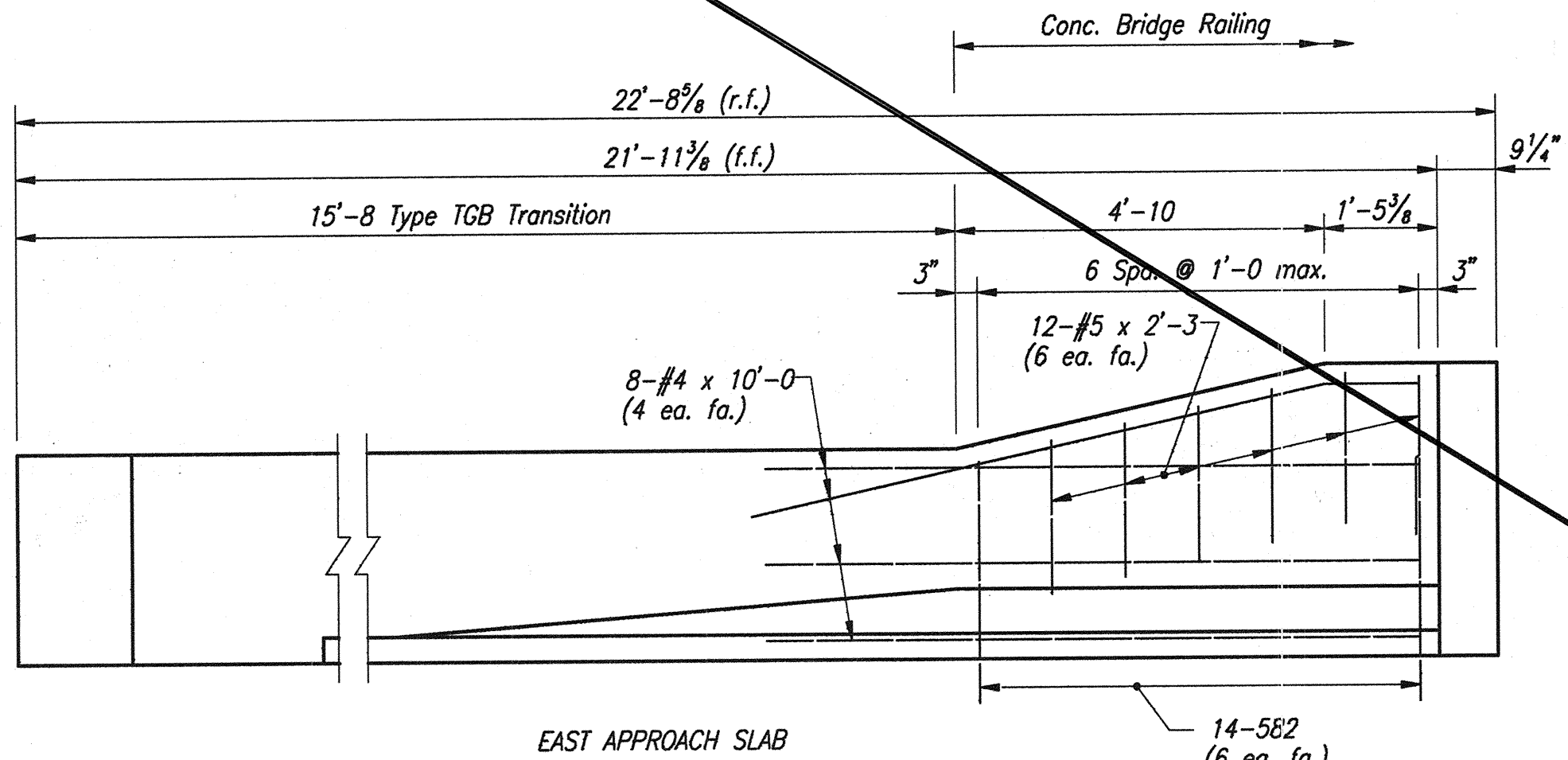


DESIGNED	M.W.C.	CHECKED	J.D.R.
DRAWN	D.W.B.	CHECKED	J.D.R.
TRACED		CHECKED	

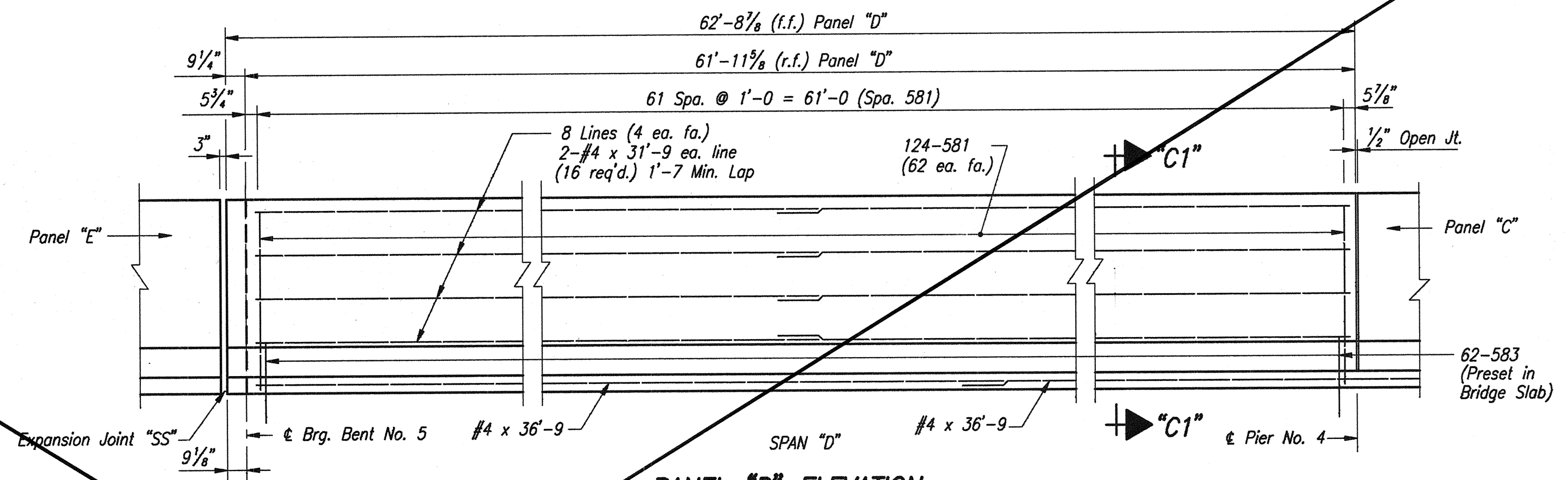


RAILING PLAN
No Scale

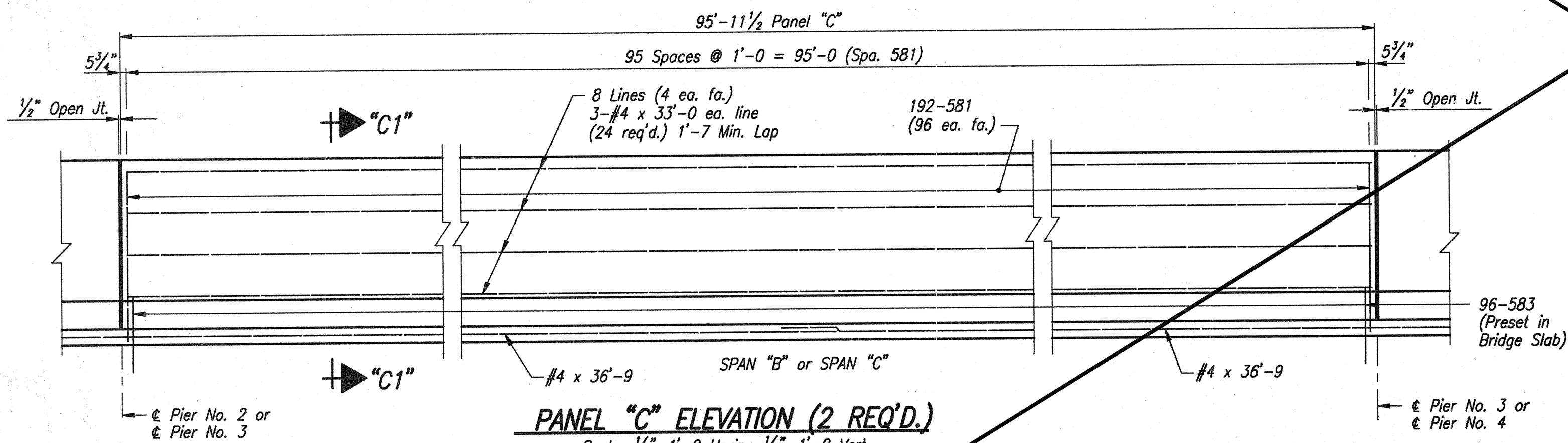
BILL OF MATERIALS CONCRETE BARRIER RAILING			
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
581	676	4'-2"	
582	14	3'-9"	
583	338	4'-11"	
#5	12	2'-3"	
Total #5			4,754
#4	18	36'-9"	
#4	48	33'-0"	
#4	16	32'-9"	
#4	16	31'-9"	
#4	10	19'-3"	
#4	8	10'-0"	
Total #4			2,371
Total Epoxy Coated Reinforcing			7,125
CONCRETE			
Class "C" Concrete In Railing			43.2 Cys.
MISCELLANEOUS			
Concrete Bridge Rail Transition, Type TGB			1 Each
Barrier Delineators			18 Each



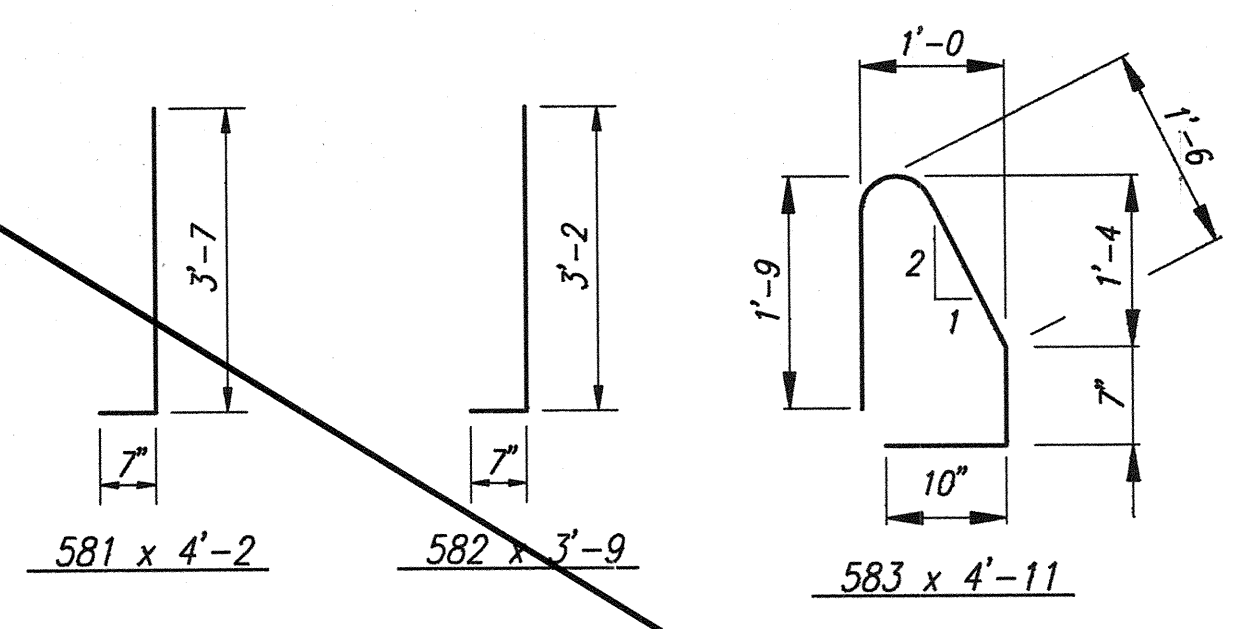
PANEL "E" ELEVATION
Scale: 1/2" = 1'-0"



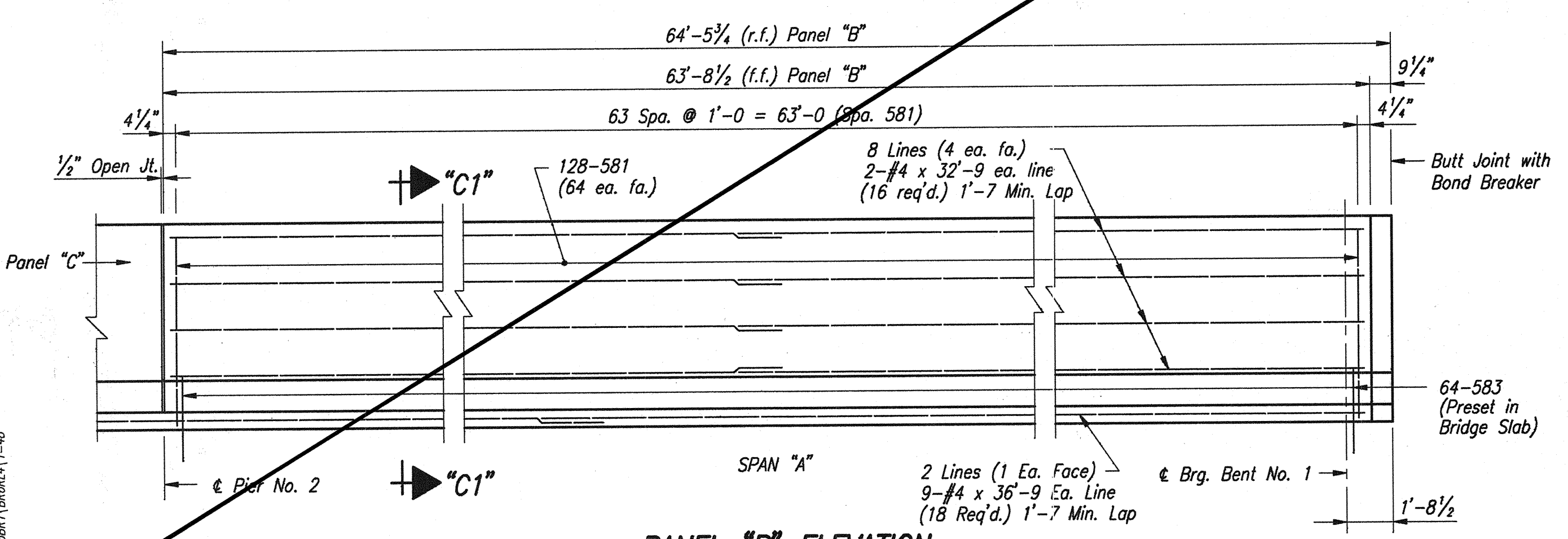
PANEL "D" ELEVATION
Scale: 1/4" = 1'-0" Horiz.; 1/2" = 1'-0" Vert.



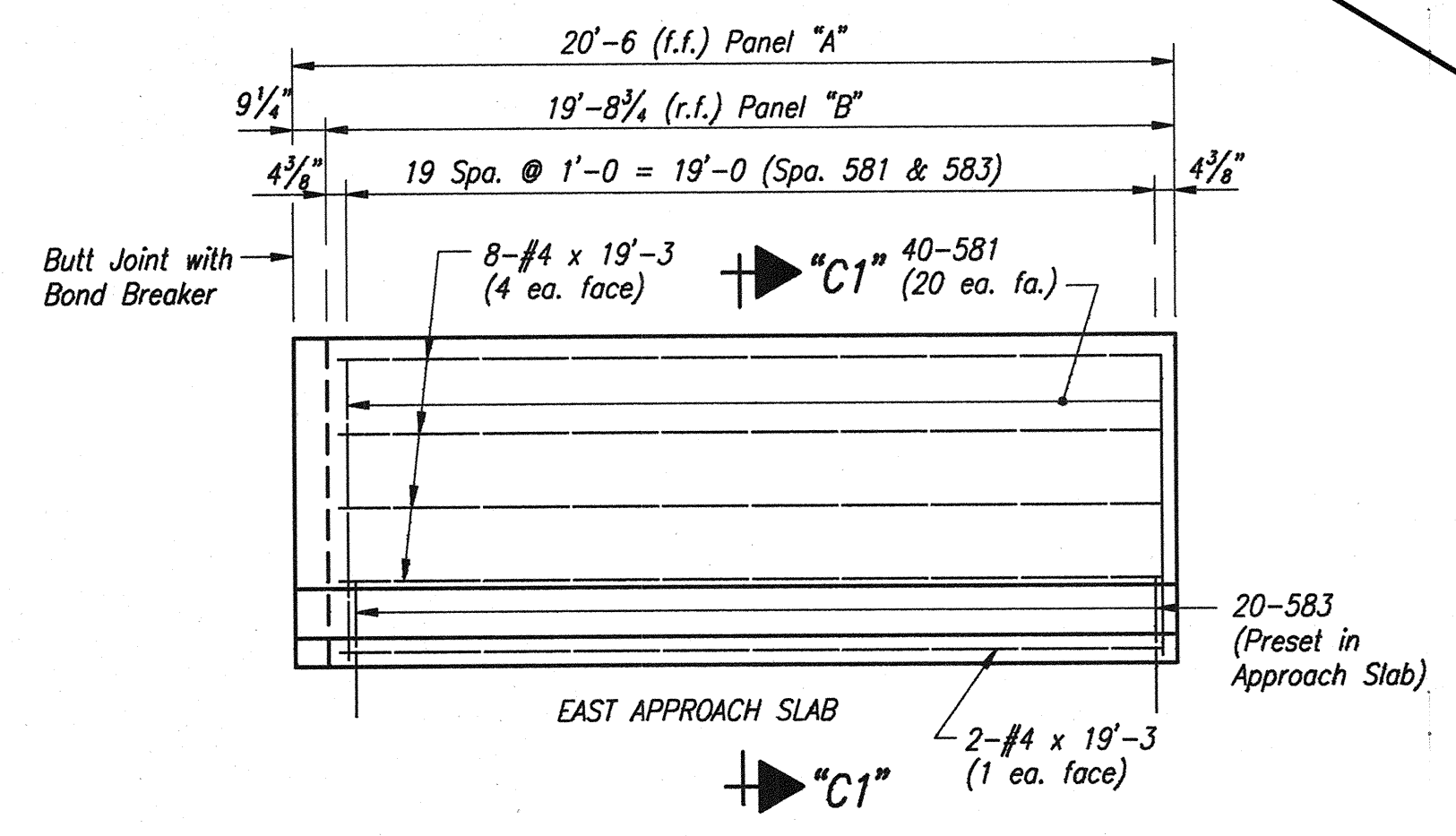
PANEL "C" ELEVATION (2 REQ'D.)
Scale: 1/4" = 1'-0" Horiz.; 1/2" = 1'-0" Vert.



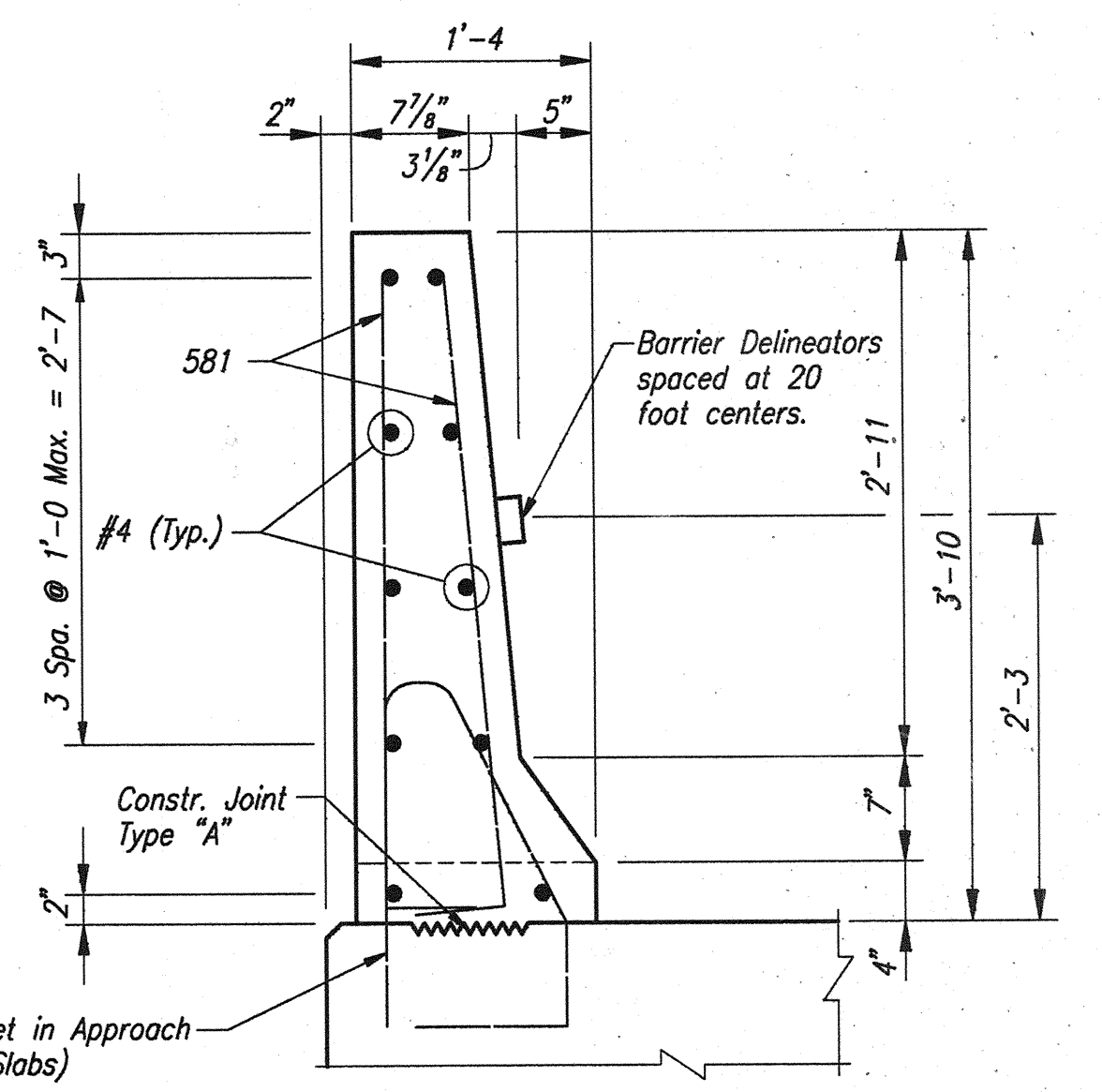
BAR BENDING DETAILS
No Scale



PANEL "B" ELEVATION
Scale: 1/4" = 1'-0" Horiz.; 1/2" = 1'-0" Vert.



PANEL "A" ELEVATION
Scale: 1/4" = 1'-0" Horiz.; 1/2" = 1'-0" Vert.



SECTION C1-C1
Scale: 1" = 1'-0"

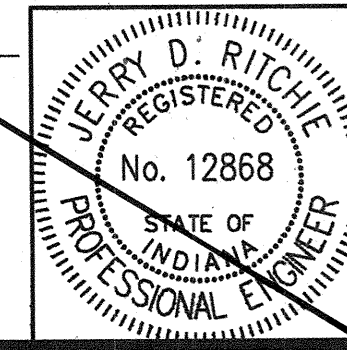
NOTES:
For Reinforcing Bar Notes, see Bridge Standard Sheet C1.
For TGB Transition Details, see Bridge Standard BR-1.

**CONCRETE BARRIER RAILING
EASTBOUND-SOUTH COPING**
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

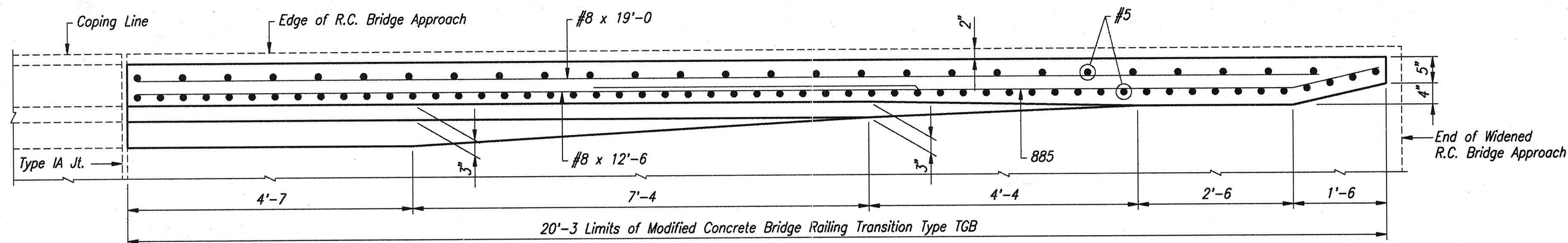
SCALE: As Noted

DATE: OCTOBER 17, 1995

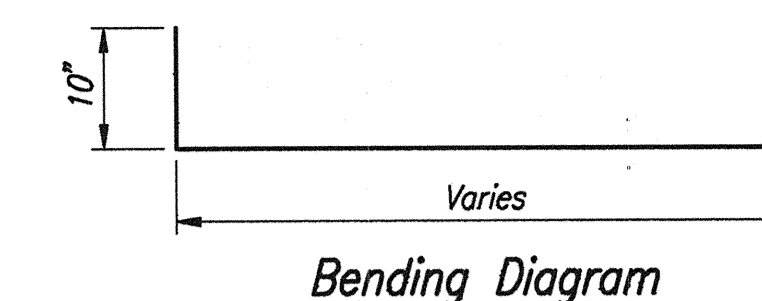
DRAWING: W24 OF W26 SHEET: 25 OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: I-74-14-2333D



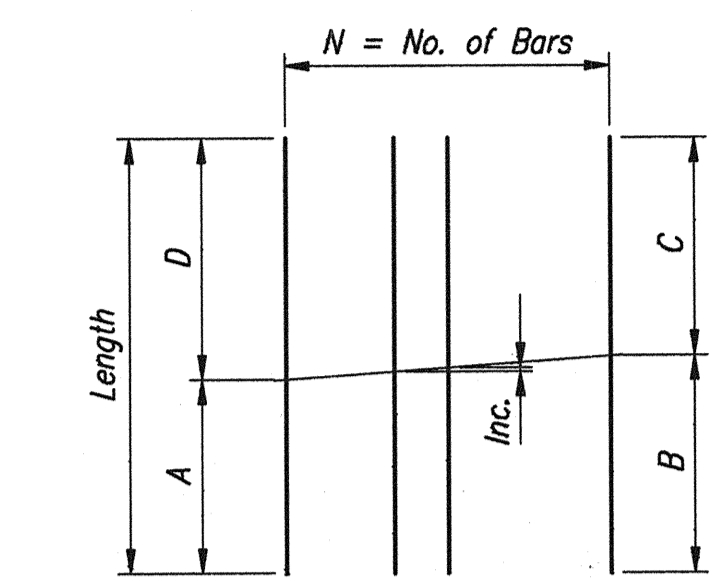
DESIGNED: M.W.C.	CHECKED: M.W.C.
DRAWN: B.W.B.	CHECKED: M.W.C.
DATE: 10/17/95	



PLAN
Scale: 3/4" = 1'-0"



Bending Diagram

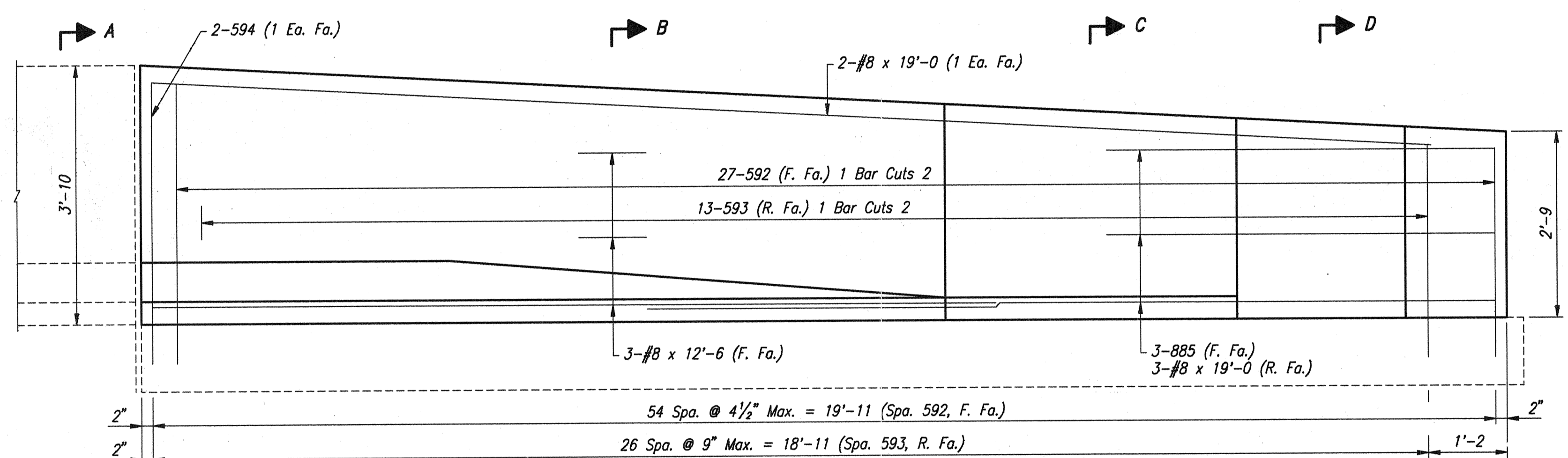


Cutting Diagram
(1 Bar Cuts 2)

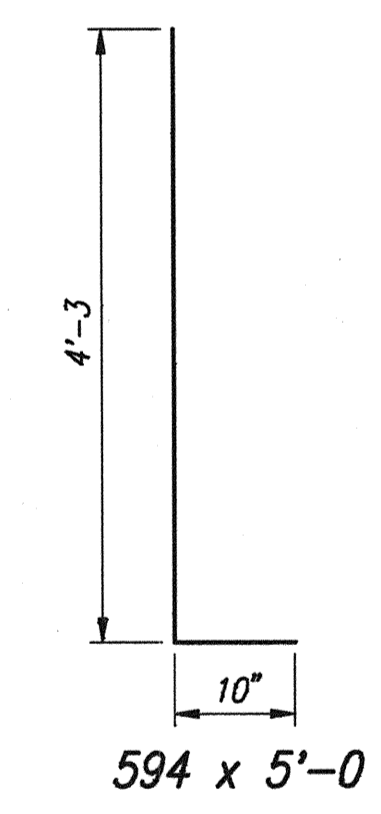
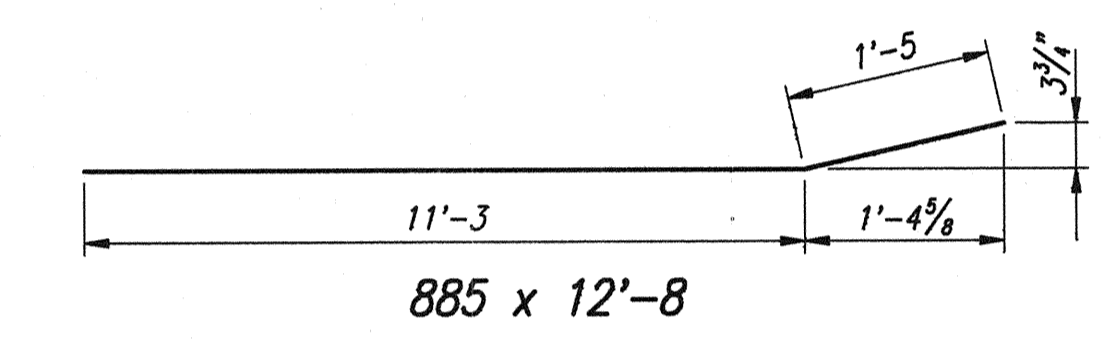
Mark	Length	A	B	C	D	N	Inc.
592	9'-0"	4'-0"	4'-5 7/8"	4'-6 1/8"	5'-0"	27	1/4" ±
593	9'-0"	4'-0"	4'-5 7/8"	4'-6 1/8"	5'-0"	13	1/2" ±

BILL OF MATERIALS RAILING TRANSITION			
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
885	3	12'-8"	
#8	5	19'-0"	
#8	3	12'-6"	
Total #8			455
592	27	9'-0"	
593	13	9'-0"	
594	2	5'-0"	
Total #5			386
Total Epoxy Coated Reinforcing			841
MISCELLANEOUS			
Class "C" Concrete			2.2 Cys.
Surface Seal			150 Sft.

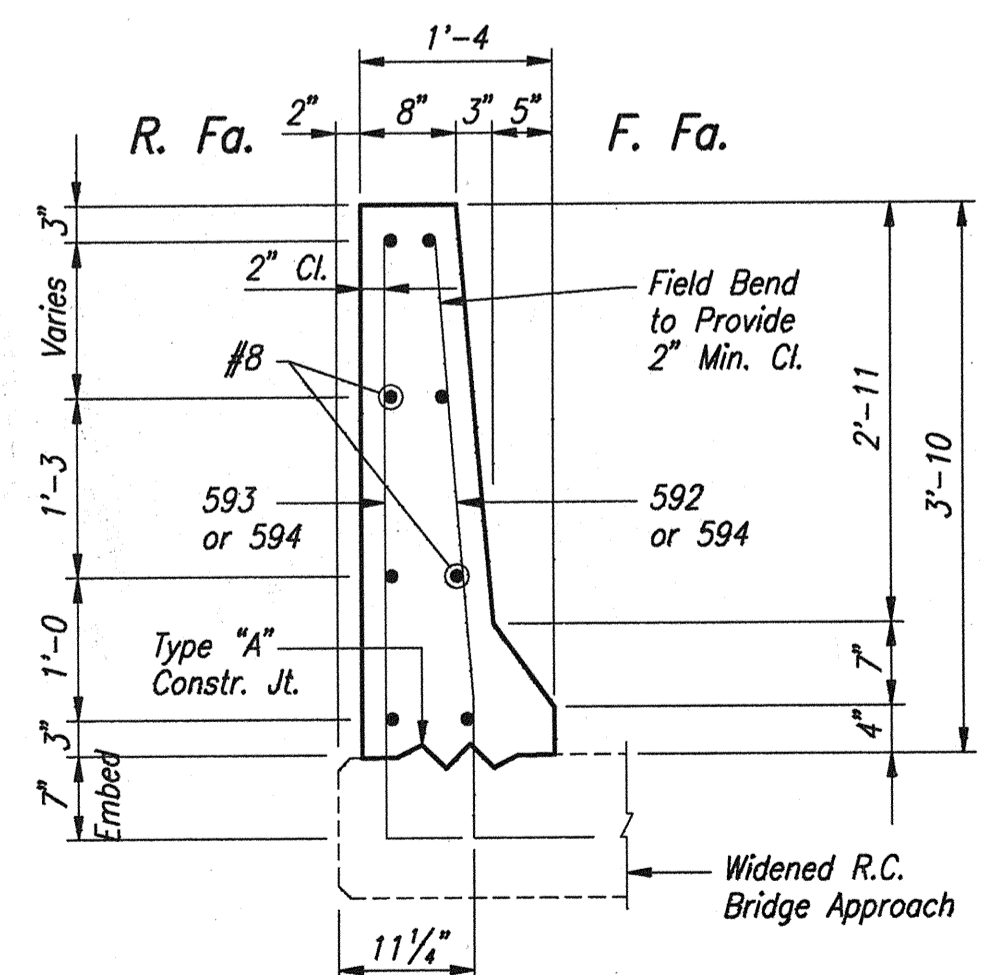
NOTE:
These Quantities are for One Concrete Bridge Railing Transition Type TGB, Modified.



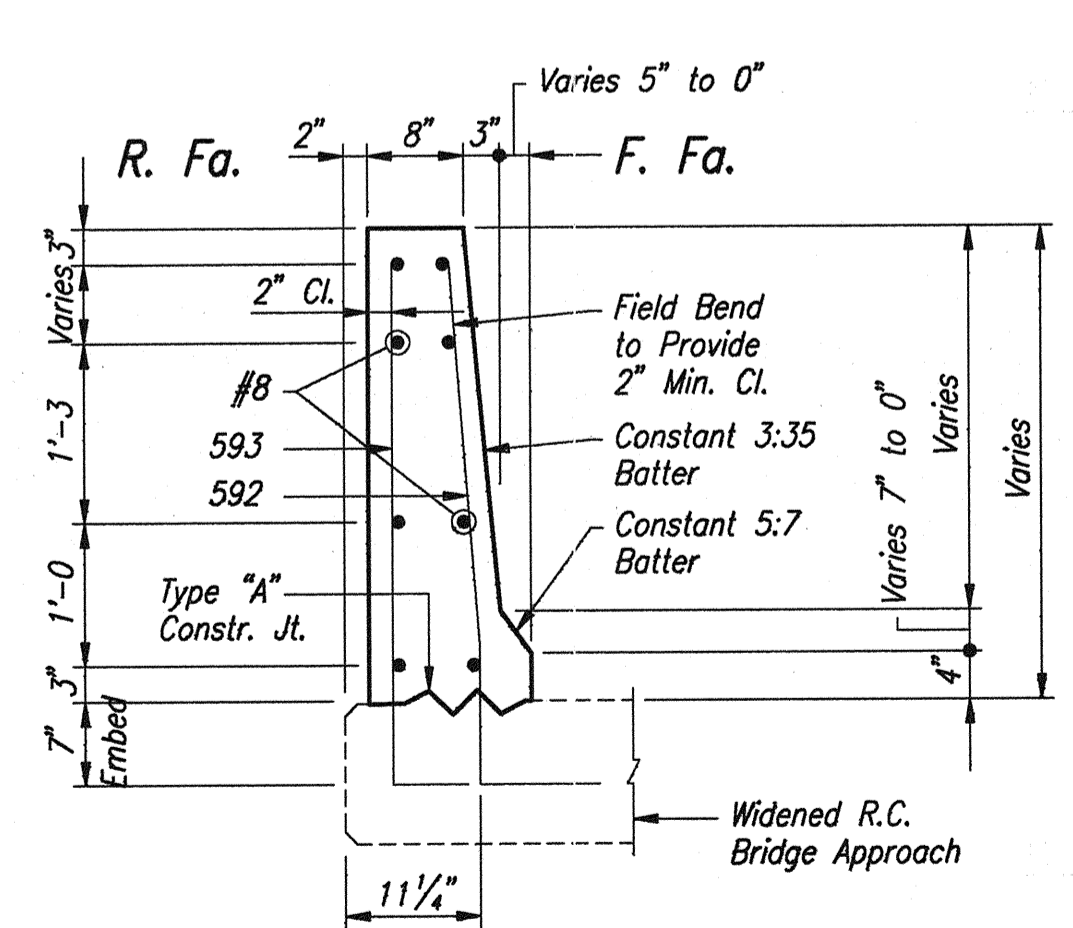
ELEVATION
Scale: 3/4" = 1'-0"



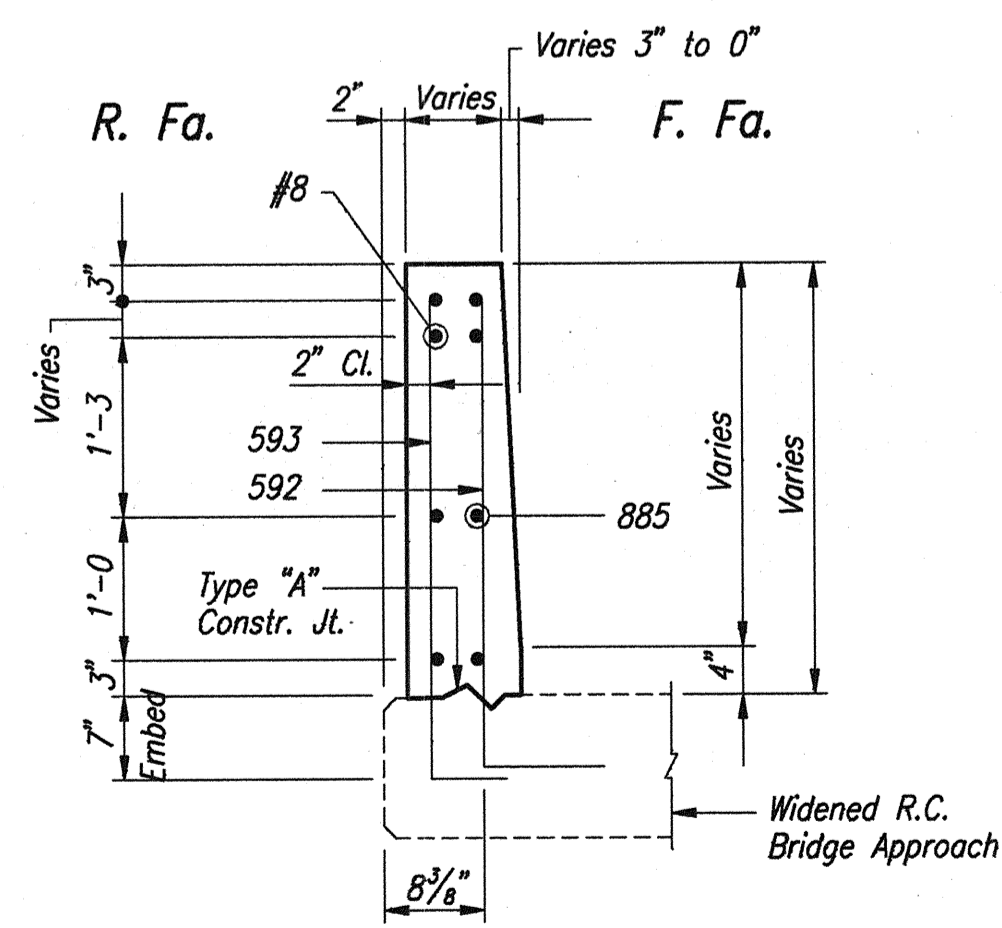
Min. Bar Lap	
#5	2'-0"
#8	5'-2"



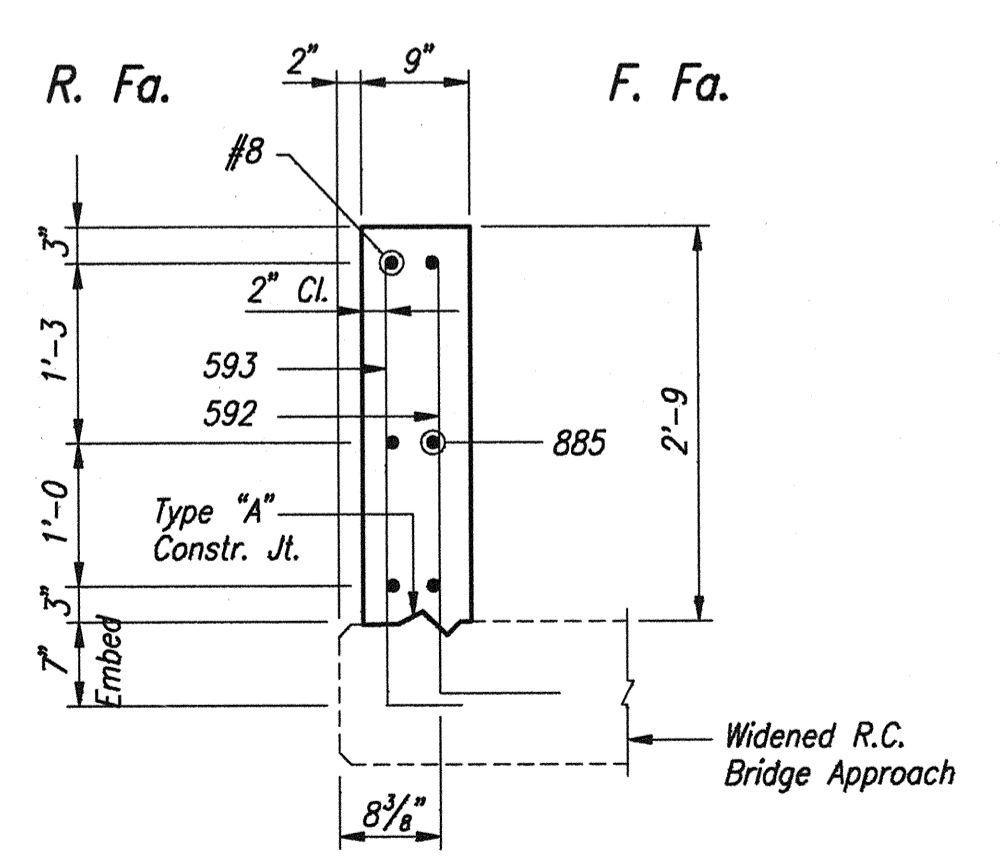
SECTION "A-A"
Scale: 3/4" = 1'-0"



SECTION "B-B"
Scale: 3/4" = 1'-0"



SECTION "C-C"
Scale: 3/4" = 1'-0"



SECTION "D-D"
Scale: 3/4" = 1'-0"

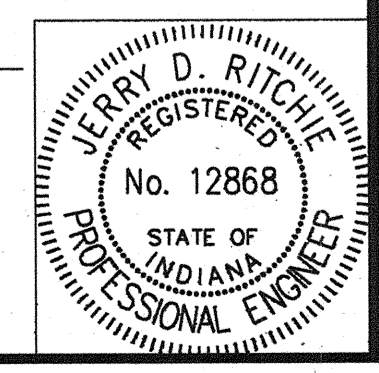
NOTES:
All Reinforcing Steel to be Epoxy Coated.
For Reinforcing Bar Notes, See Bridge Standard C1.
Quantities Shown for Information Only. Cost Shall be Included in the Pay Item "Concrete Bridge Railing Transition Type TGB, Modified", Each.

**CONCRETE BRIDGE RAILING
TRANSITION TYPE TGB, MODIFIED**
INDIANA DEPARTMENT OF TRANSPORTATION
FOUNTAIN COUNTY

SCALE: As Noted DATE: November 7, 1995

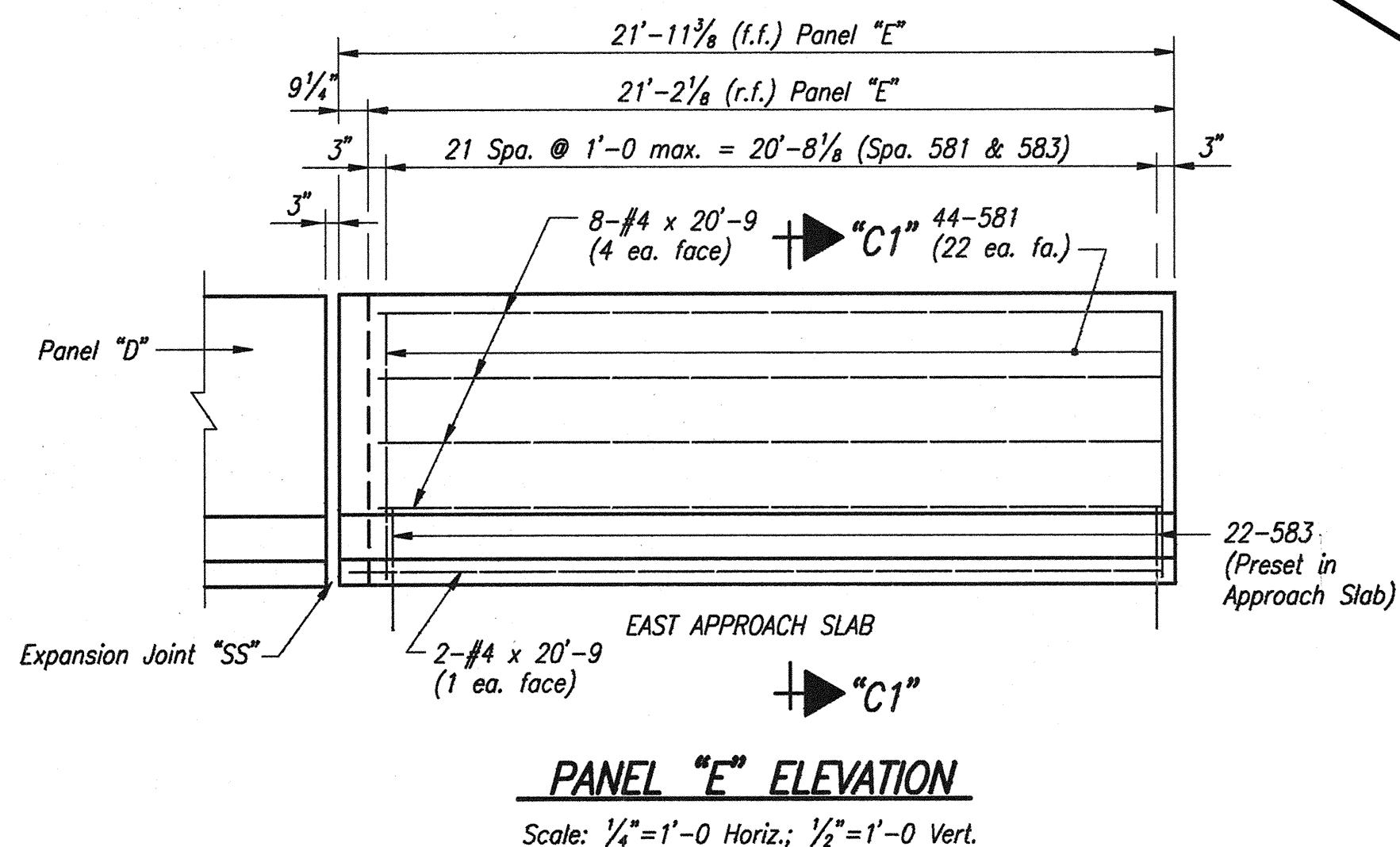
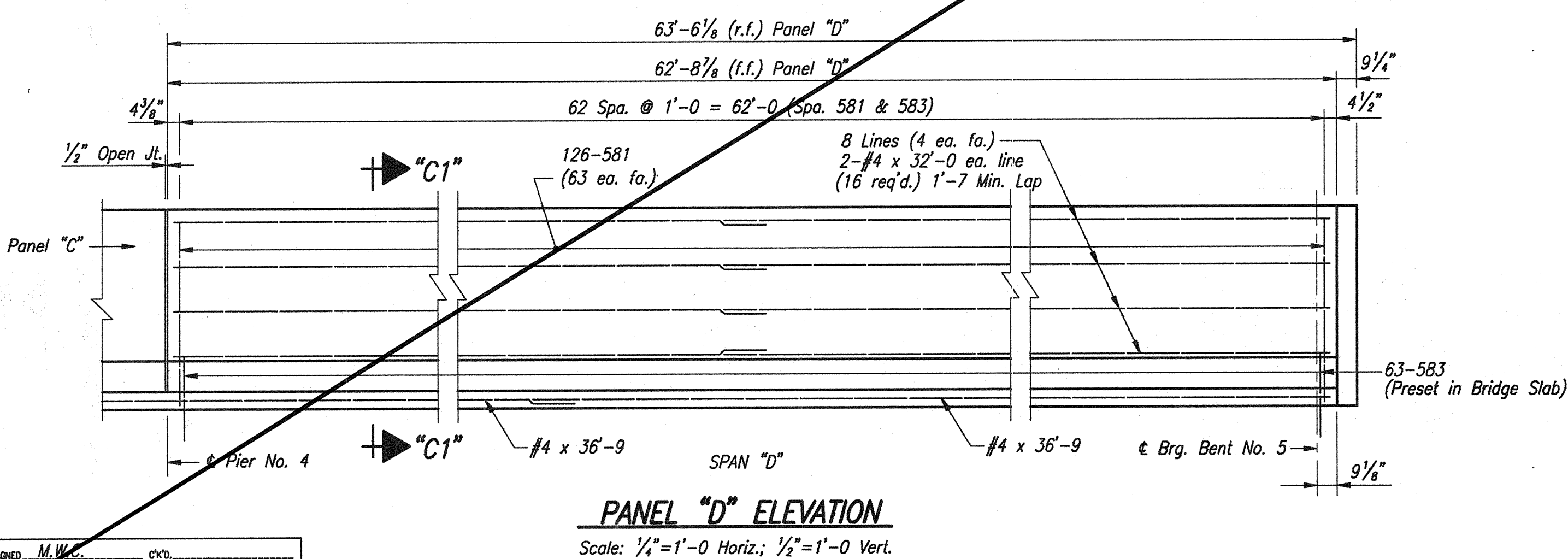
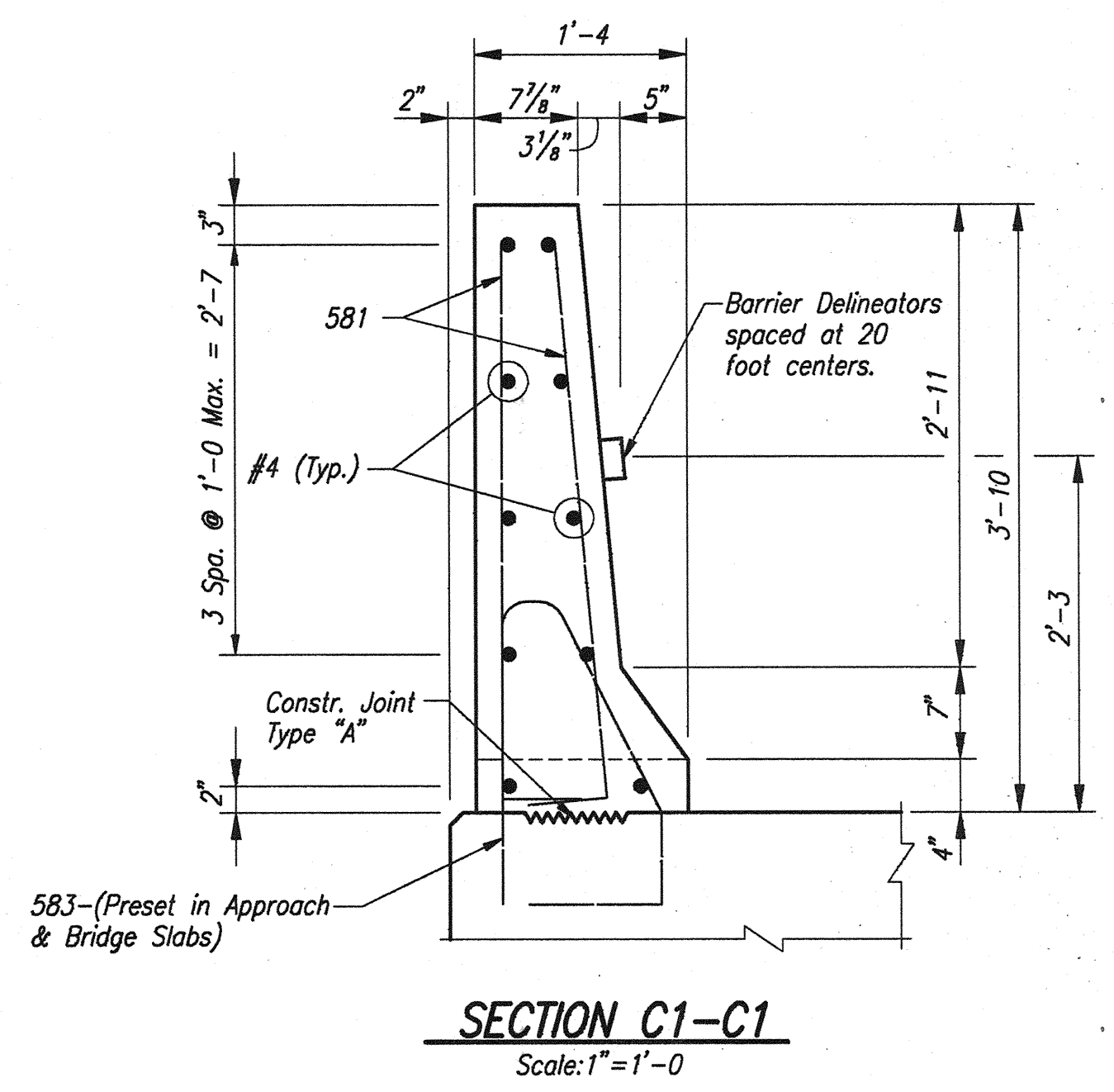
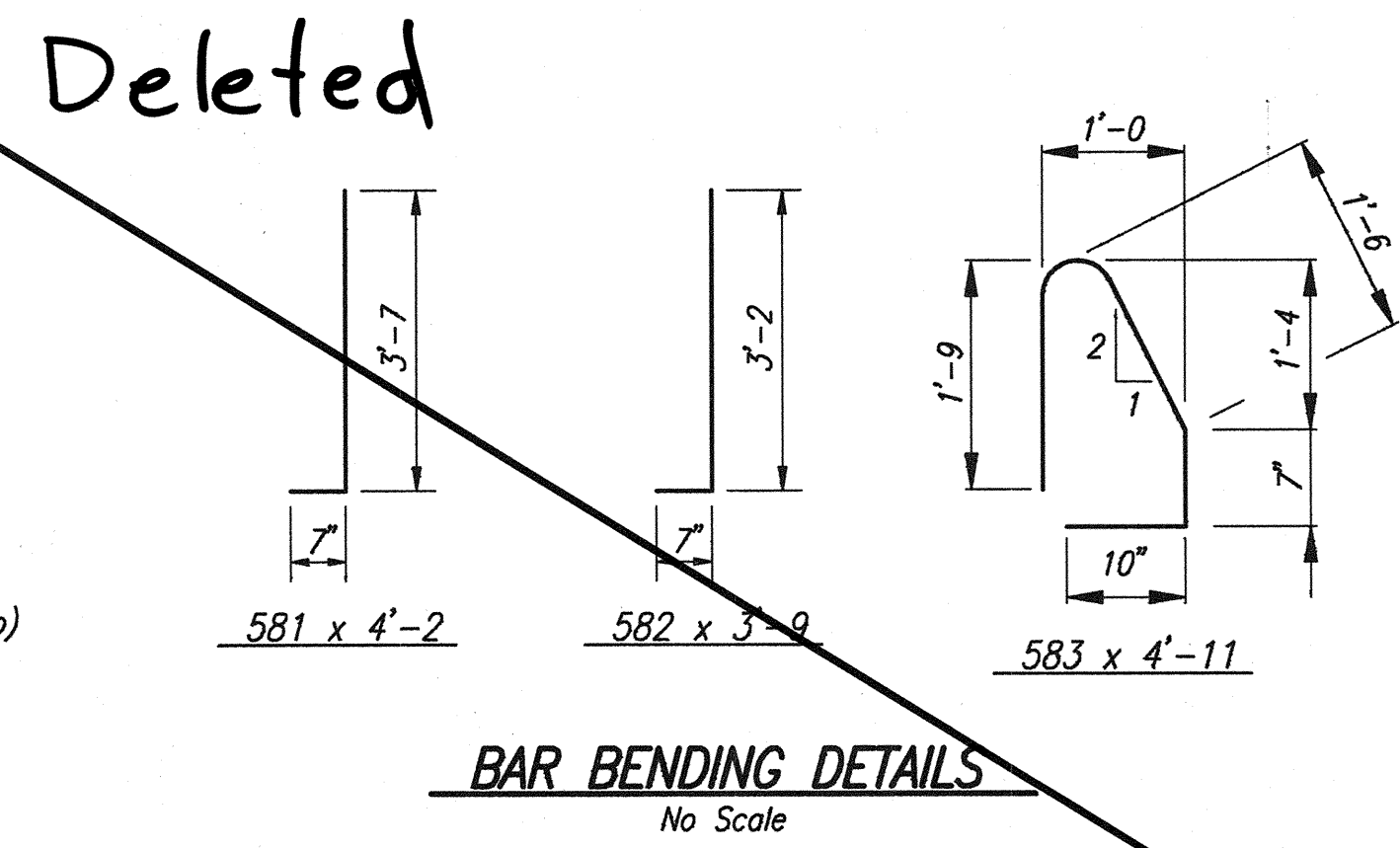
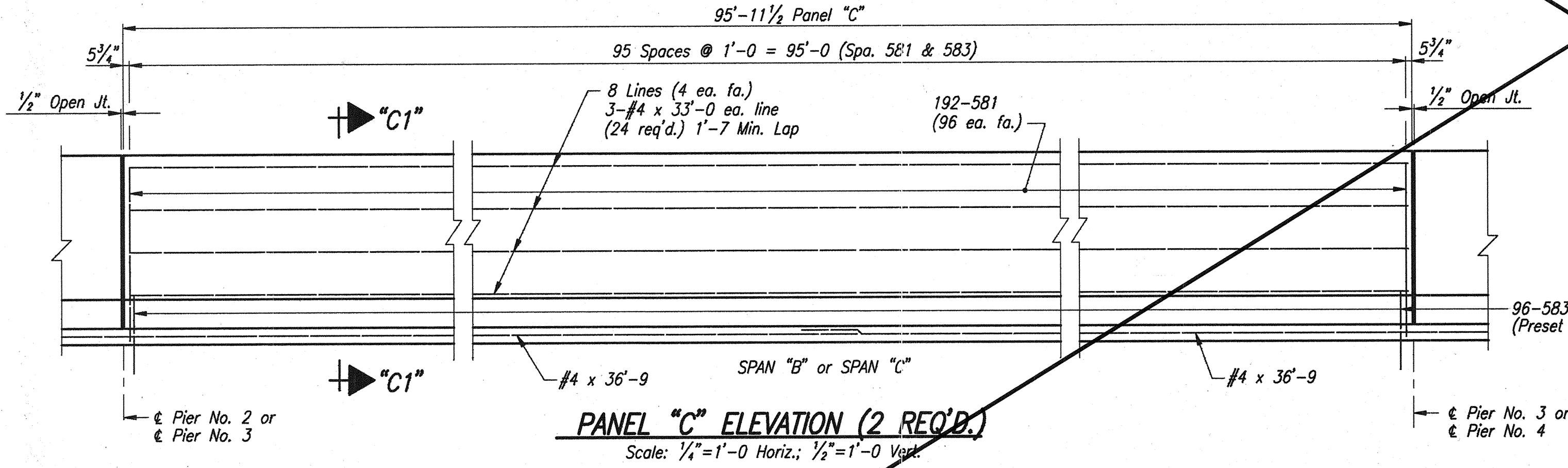
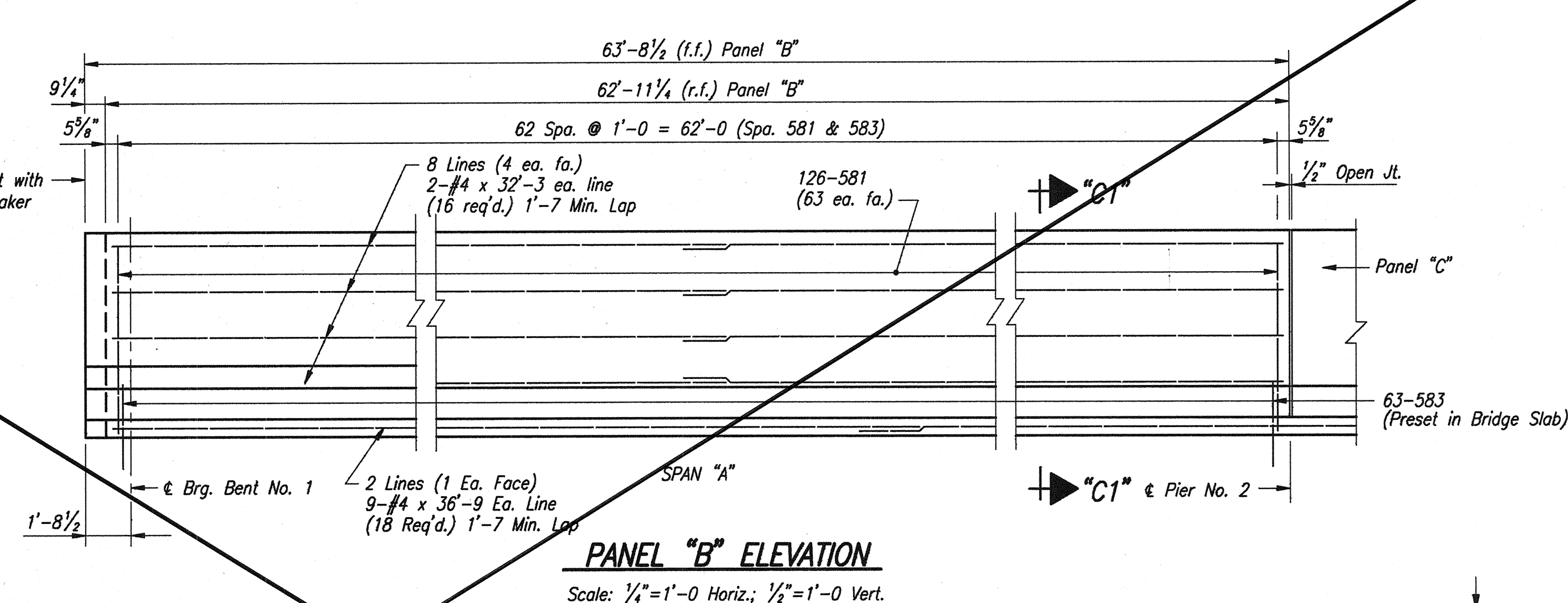
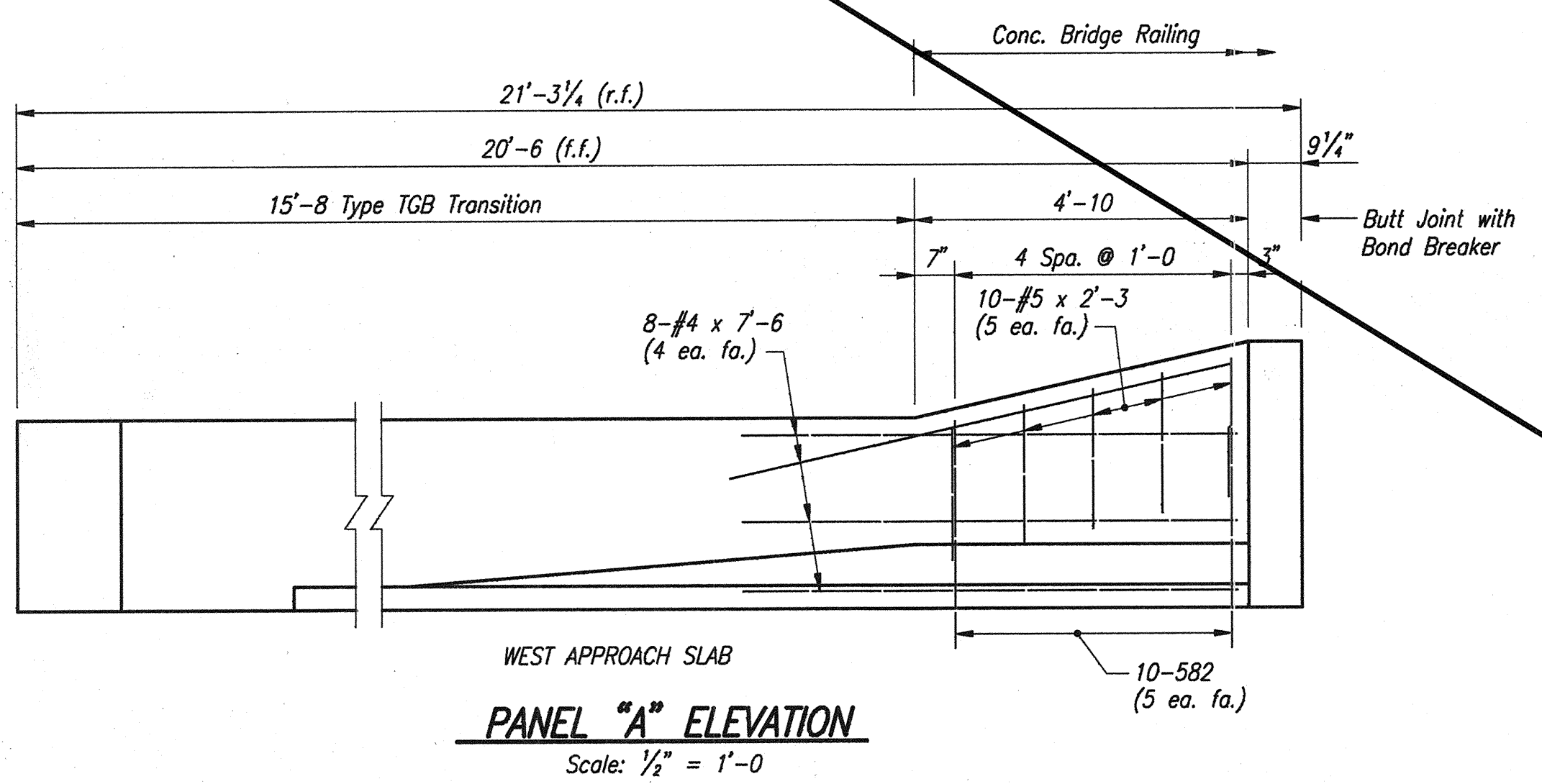
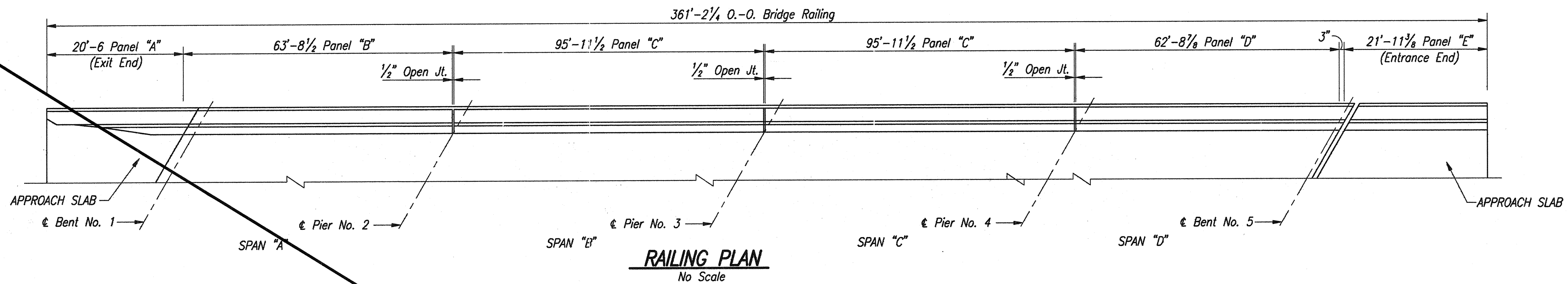
Jerry D. Ritchie

DRAWING: W24 OF W26 SHEET: 25A OF 36
PROJECT: IM-74-1(115)0
BRIDGE CONTRACT NO. R-21467
BRIDGE FILE: I-74-14-2333D



DESIGNED: J.D.R.	CHKD: W.K.S.
DRAWN: W.K.S.	CHKD: J.D.R.
TRACED:	CHKD:

BILL OF MATERIALS			
CONCRETE BARRIER RAILING			
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
581	680	4'-2"	
582	10	3'-9"	
583	340	4'-11"	
#5	10	2'-3"	
Total #5			4,761
#4	18	36'-9"	
#4	48	33'-0"	
#4	16	32'-3"	
#4	16	32'-0"	
#4	10	20'-9"	
#4	8	7'-6"	
Total #4			2,365
Total Epoxy Coated Reinforcing			7,126
CONCRETE			
Class "C" Concrete In Railing			43.2 Cys.
MISCELLANEOUS			
Concrete Bridge Rail Transition, Type TGB			1 Each
Barrier Delineators			18 Each

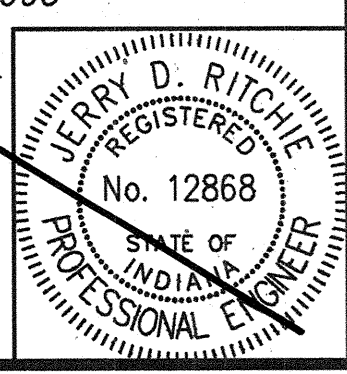


NOTES:
 For Reinforcing Bar Notes, see Bridge Standard Sheet C1.
 For TGB Transition Details, see Bridge Standard BR-1.

**CONCRETE BARRIER RAILING
 WESTBOUND-NORTH COPING**
INDIANA DEPARTMENT OF TRANSPORTATION
 FOUNTAIN COUNTY

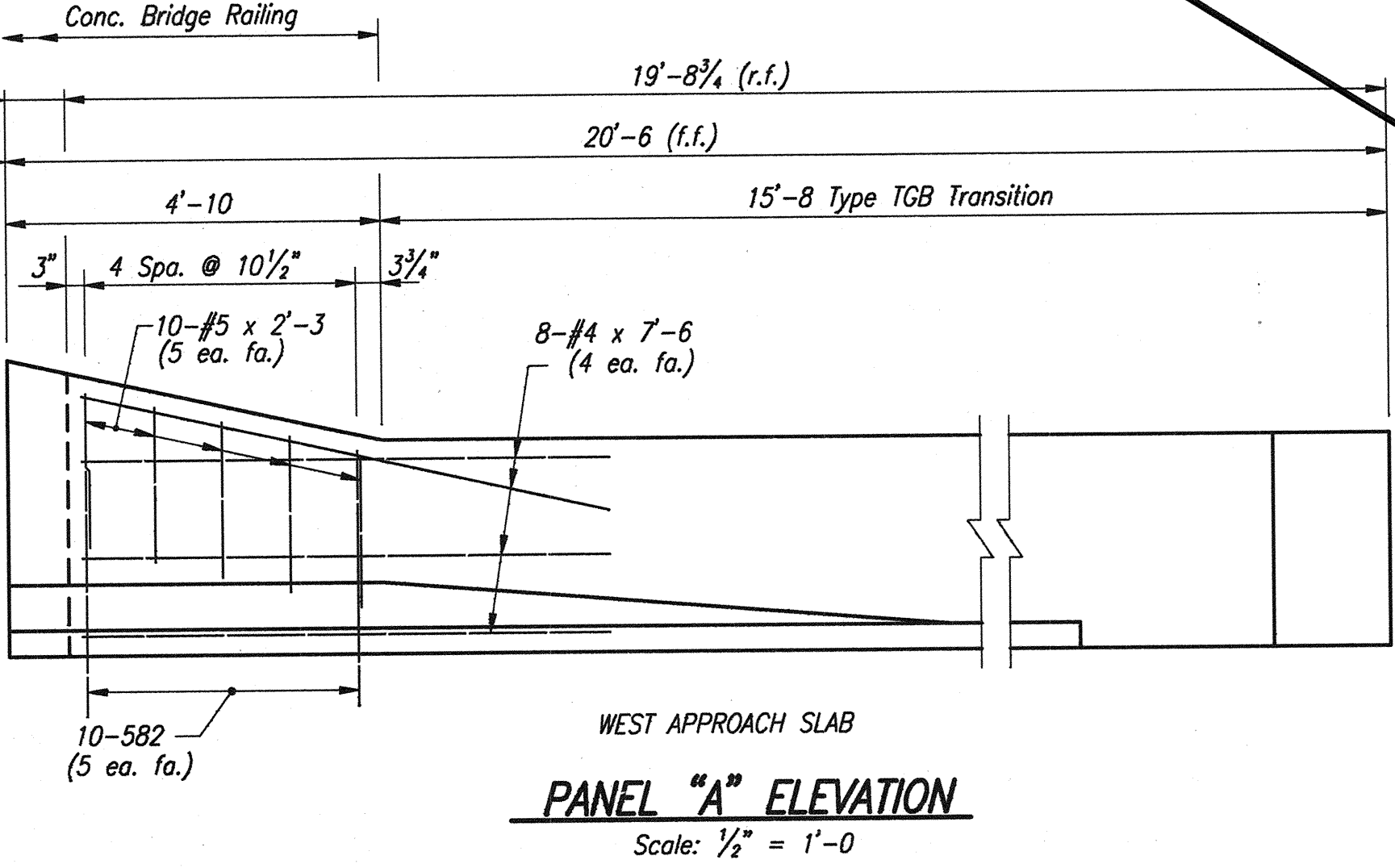
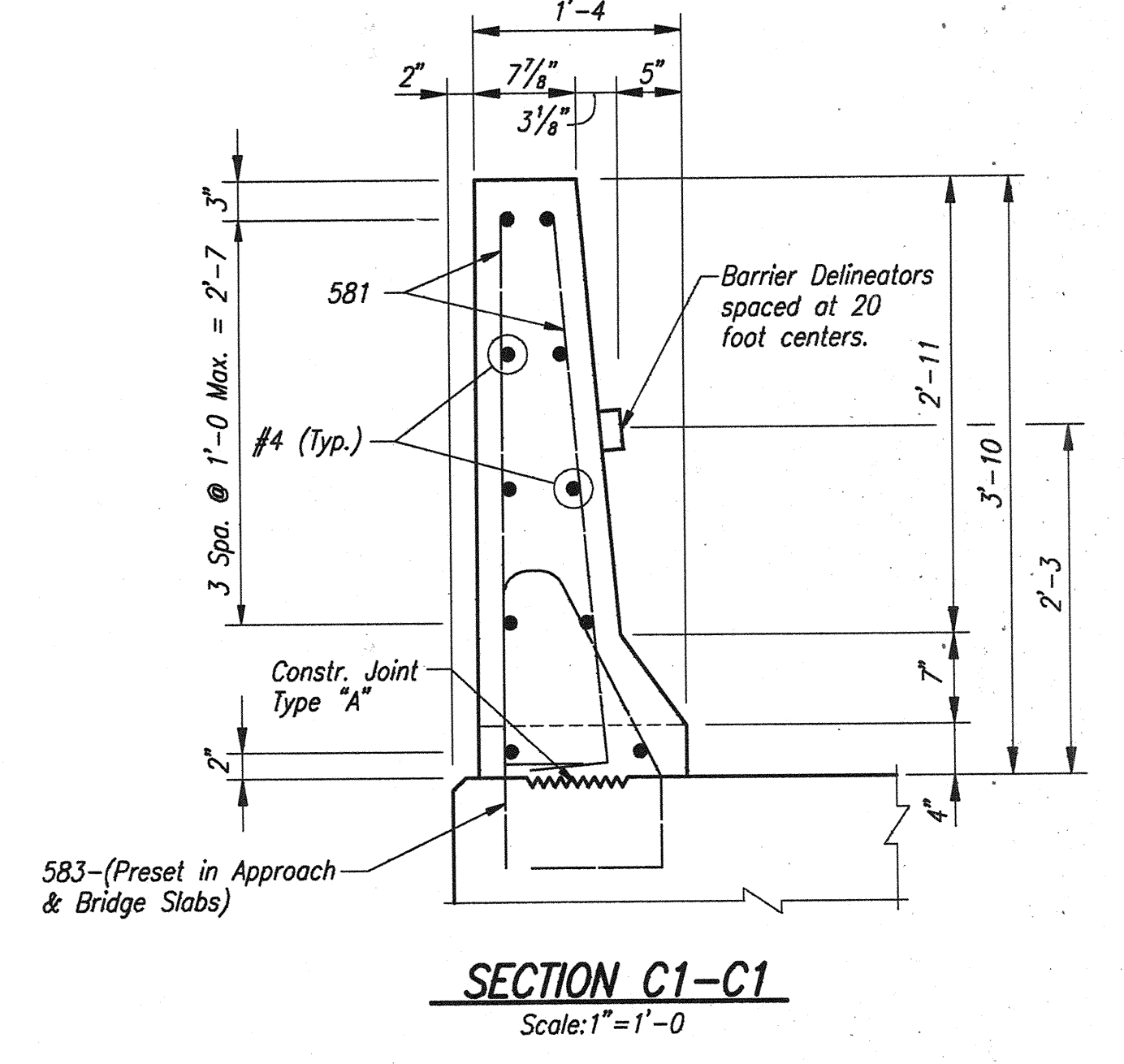
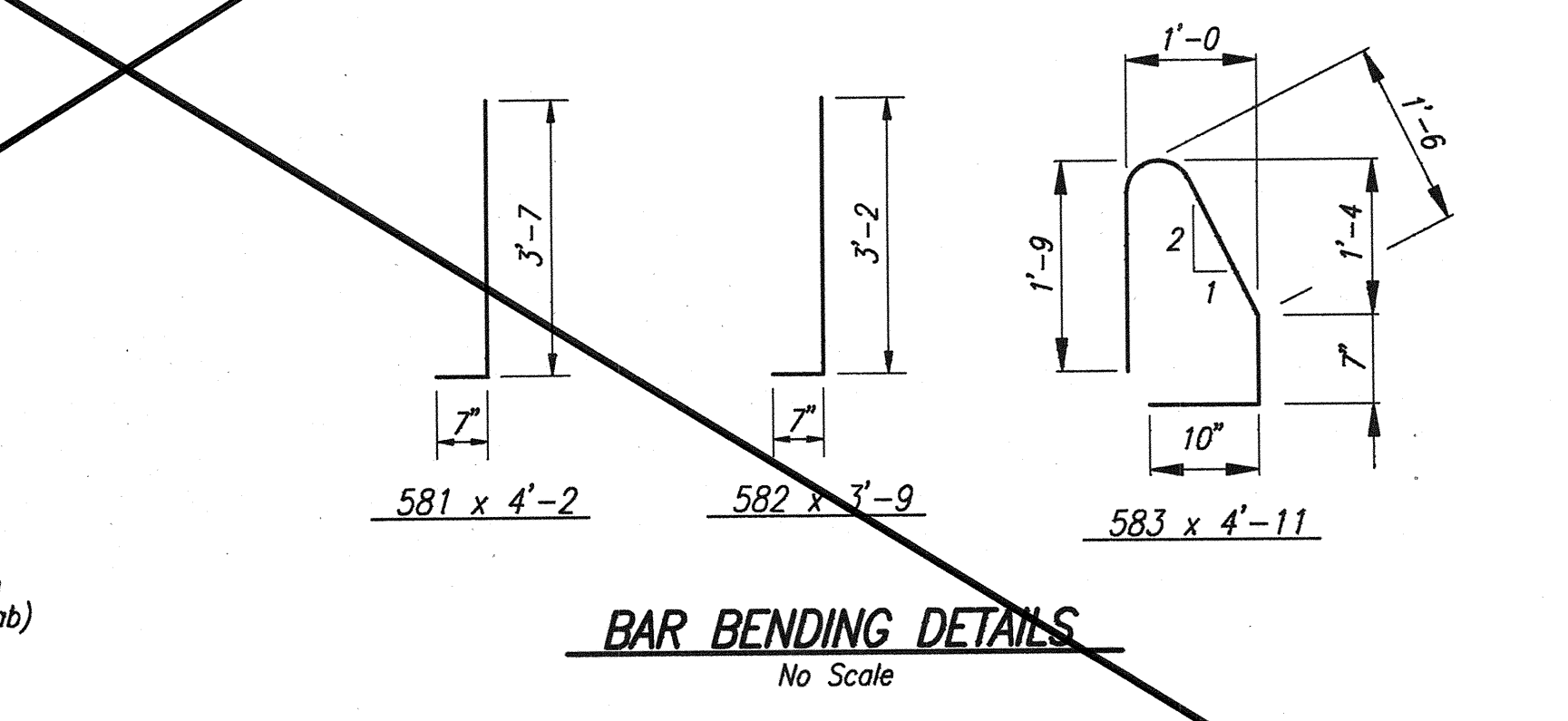
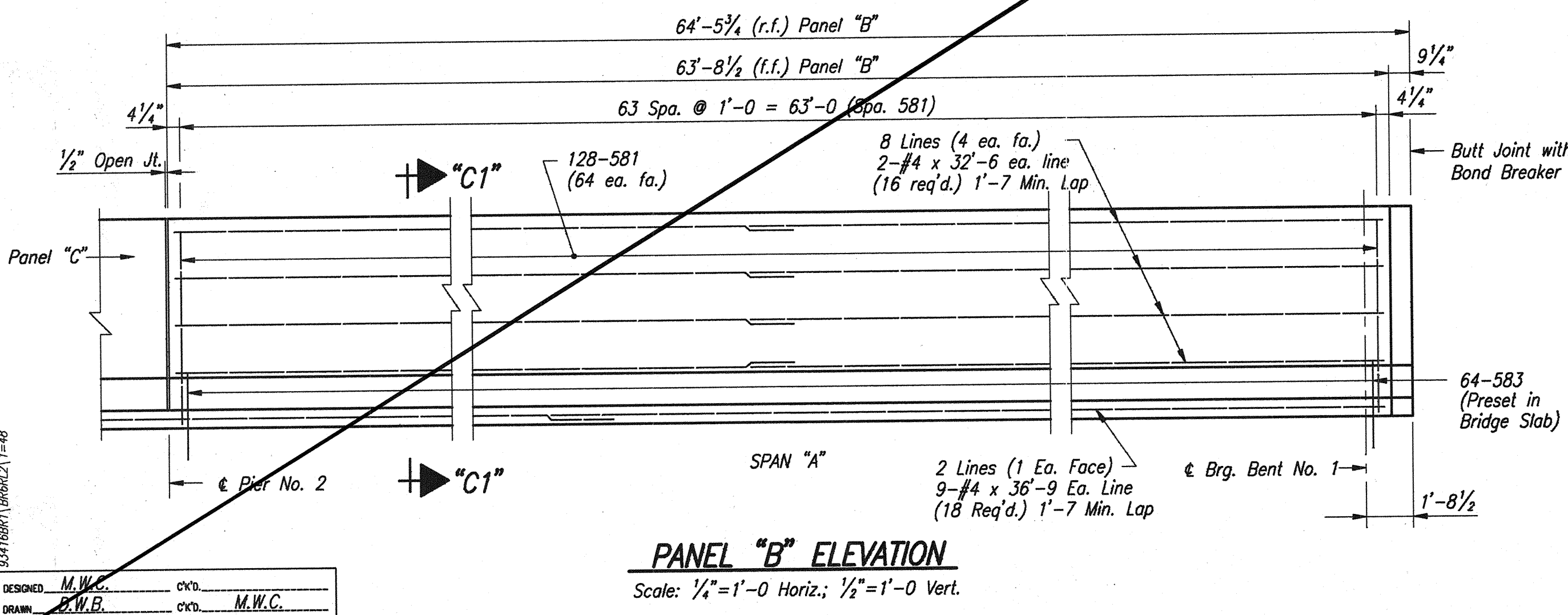
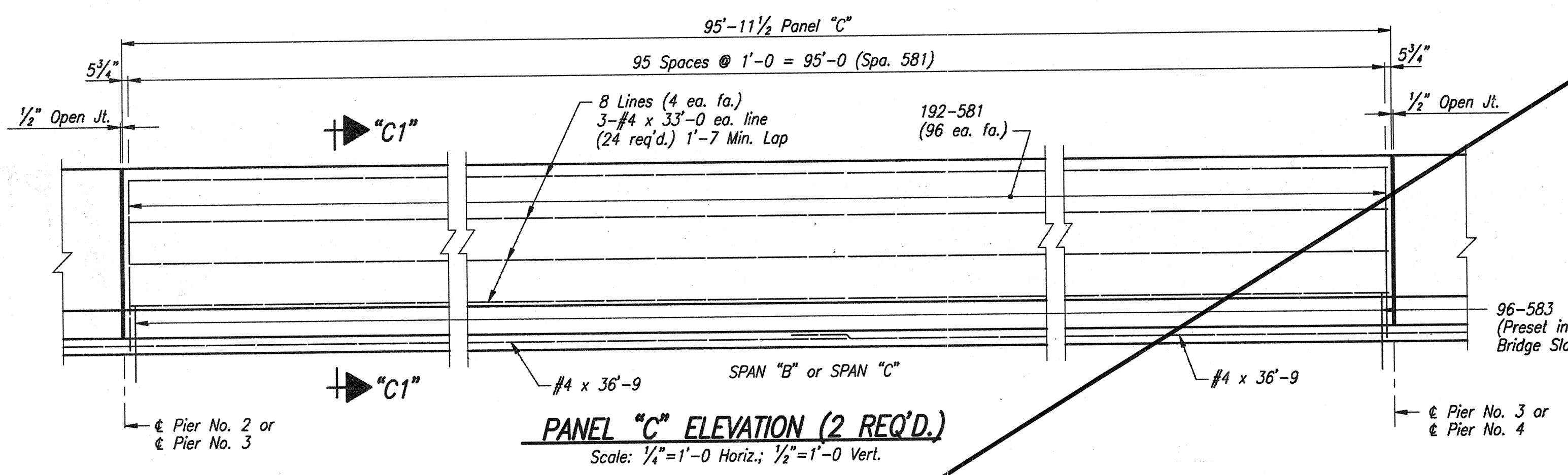
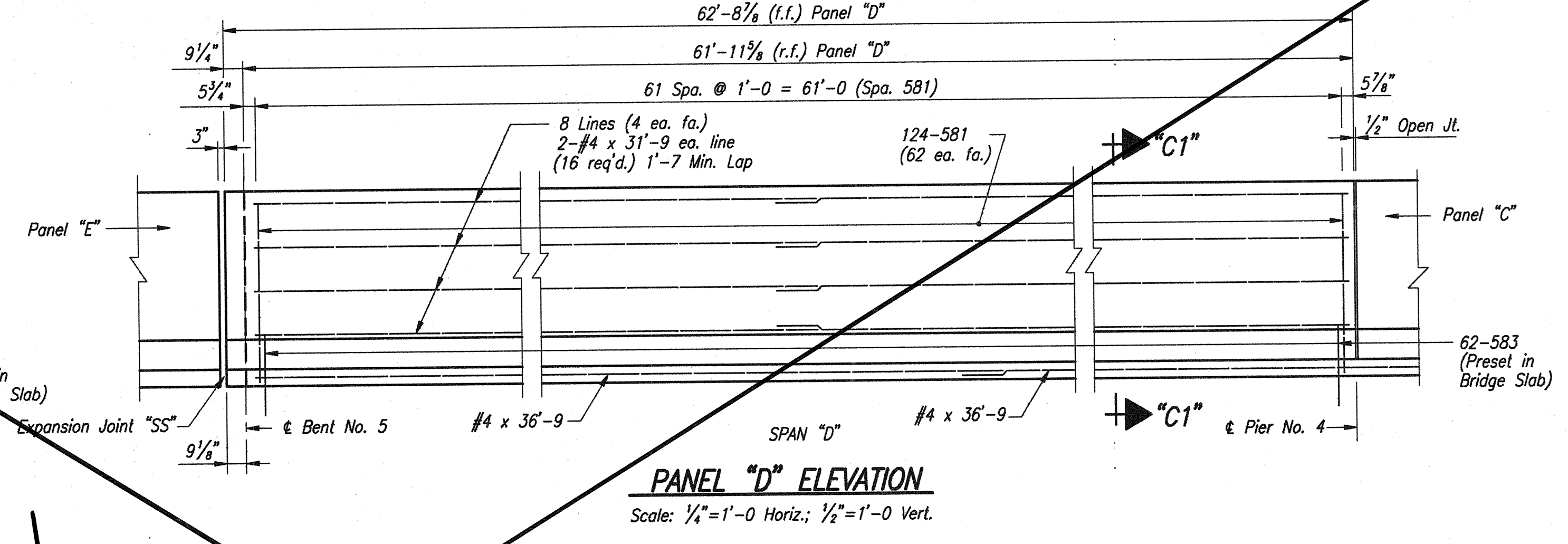
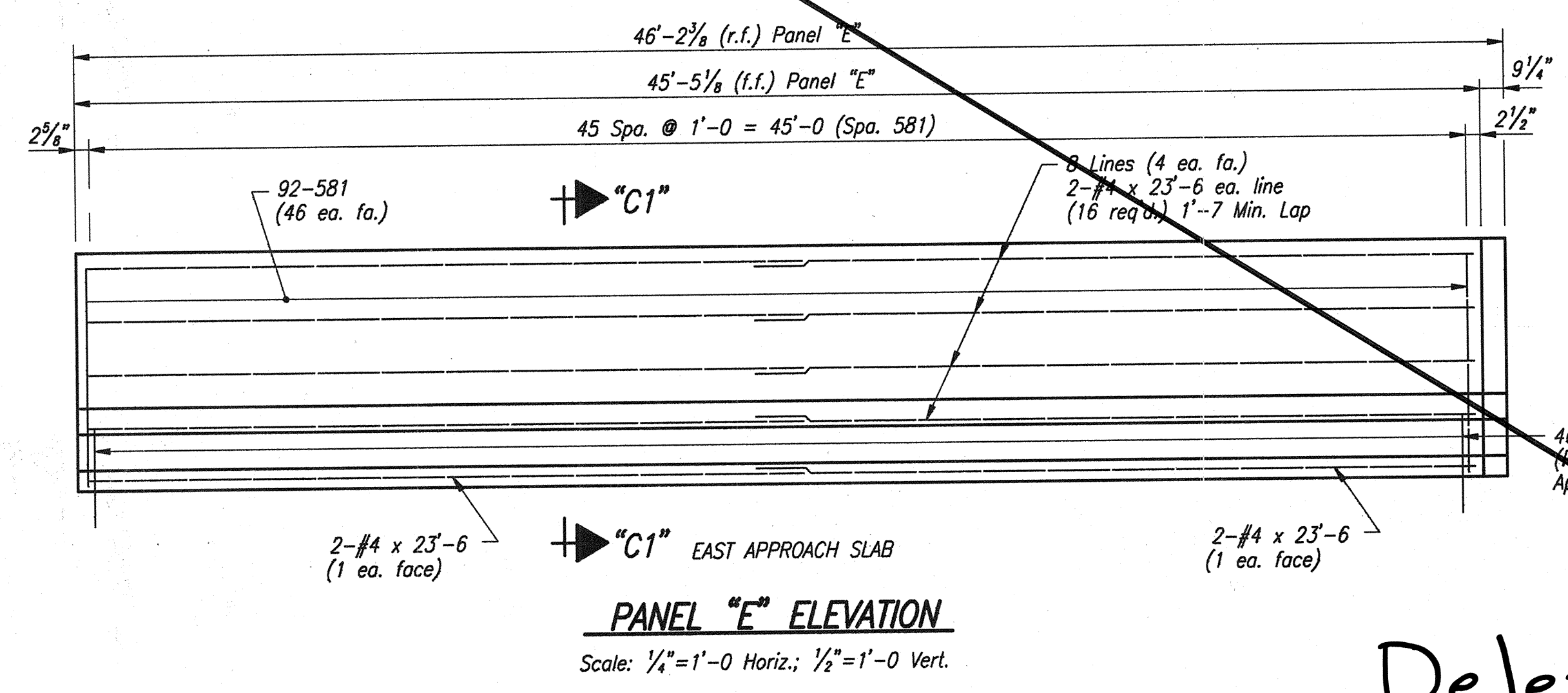
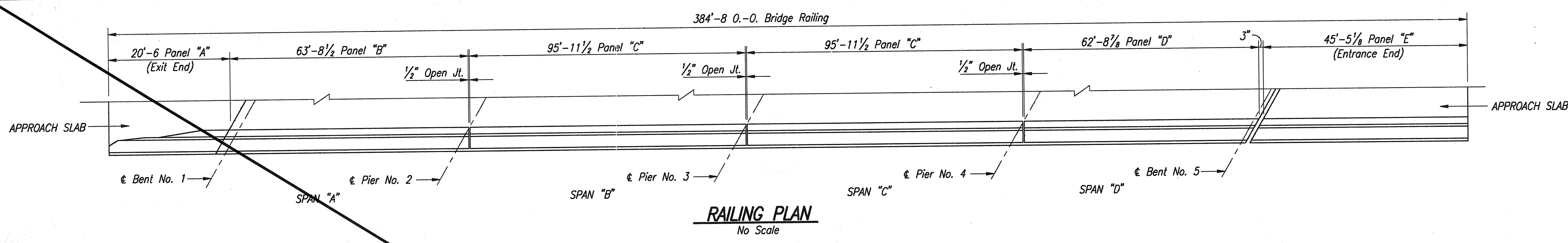
SCALE: As Noted DATE: OCTOBER 17, 1995

DRAWING: W25 OF W26 SHEET: 26 OF 36
 PROJECT: IM-74-1(115)0
 BRIDGE CONTRACT NO. R-21467
 BRIDGE FILE: I-74-14-2333D



DESIGNED: M.W.C. ckw
 DRAWN: M.W.C. ckw
 CHECKED: M.W.C. ckw

BILL OF MATERIALS			
CONCRETE BARRIER RAILING			
EPOXY COATED REINFORCING STEEL			
Size or Mark	No. of Bars	Length	Weight (lbs.)
581	725	4'-2"	
582	10	3'-9"	
583	364	4'-11"	
#5	10	2'-3"	
Total #5			5,093
#4	18	36'-9"	
#4	48	33'-0"	
#4	16	32'-6"	
#4	16	31'-9"	
#4	20	23'-6"	
#4	8	7'-6"	
Total #4			2,541
Total Epoxy Coated Reinforcing			7,634
CONCRETE			
Class "C" Concrete In Railing			45.9 Cys.
MISCELLANEOUS			
Concrete Bridge Rail Transition, Type TGB			1 Each
Barrier Delineators			19 Each



Deleted

NOTES:
 For Reinforcing Bar Notes, see Bridge Standard Sheet C1.
 For TGB Transition Details, see Bridge Standard BR-1.

CONCRETE BARRIER RAILING
WESTBOUND-SOUTH COPING
INDIANA DEPARTMENT OF TRANSPORTATION
 FOUNTAIN COUNTY

SCALE: As Noted
 DATE: OCTOBER 17, 1995

DRAWING: W26 OF W26 SHEET: 27 OF 36
 PROJECT: M-74-1(115)0
 BRIDGE CONTRACT NO. R-21467
 BRIDGE FILE: I-74-14-2333D

DESIGNED: M.W.C.	CHECKED: M.W.C.
DRAWN: M.W.C.	CHECKED: M.W.C.
DATE: 10/17/95	

