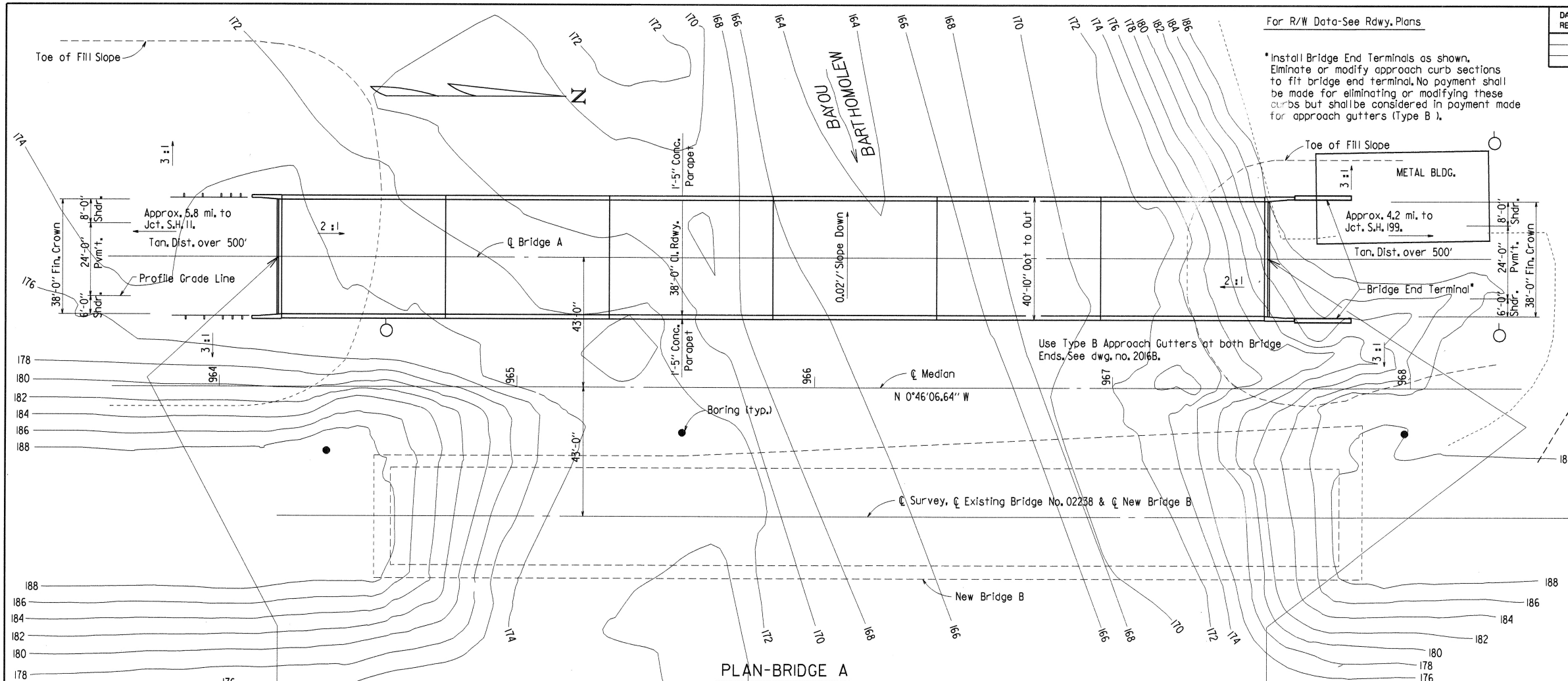


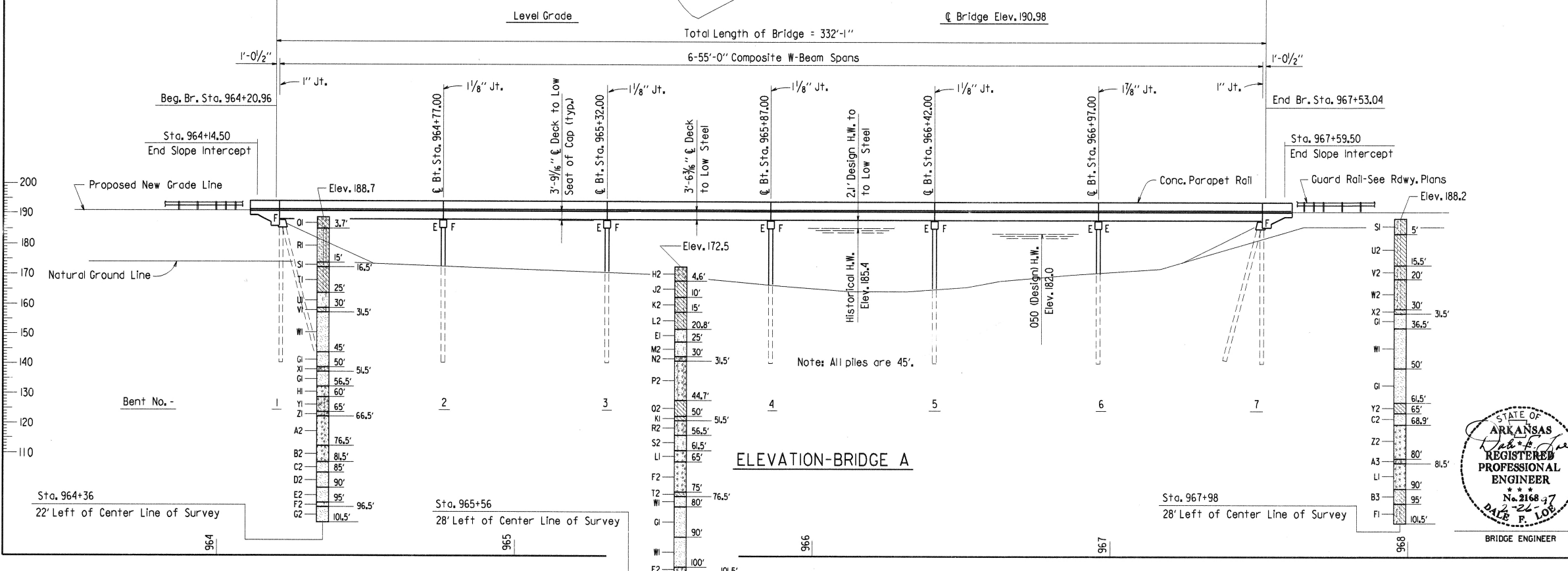
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		020112	53	139
				A6681		LAYOUT		38046

For R/W Data-See Rdwy. Plans

*Install Bridge End Terminals as shown. Eliminate or modify approach curb sections to fit bridge end terminal. No payment shall be made for eliminating or modifying these curbs but shall be considered in payment made for approach gutters (Type B).



PLAN-BRIDGE A



ELEVATION-BRIDGE A

"N" VALUES

Sta. 964+36 - 22' Left of Center Line of Survey

4.2- 5.2, N=12
9.2- 10.2, N=9
15.5- 16.5, N=11
20.5- 21.5, N=6
25.5- 26.5, N=17
30.5- 31.5, N=20
35.5- 36.5, N=25
40.5- 41.5, N=26
45.5- 46.5, N=46
50.5- 51.5, N=32
55.5- 56.5, N=32
60.5- 61.5, N=10
65.5- 66.5, N=14
70.5- 71.5, N=28
75.5- 76.5, N=22
80.5- 81.5, N=20
85.5- 86.5, N=68
90.5- 91.5, N=21
95.5- 96.5, N=31
100.5- 101.5, N=22

Sta. 965+56 - 28' Left of Center Line of Survey

5.1- 6.1, N=4
10.5- 11.5, N=5
15.5- 16.5, N=2
20.5- 21.5, N=6
25.5- 26.5, N=14
30.5- 31.5, N=20
35.5- 36.5, N=20
40.5- 41.5, N=28
45.5- 46.5, N=5
50.5- 51.5, N=14
55.5- 56.5, N=19
60.5- 61.5, N=18
65.5- 66.5, N=31
70.5- 71.5, N=53
75.5- 76.5, N=19
80.5- 81.5, N=33
85.5- 86.5, N=42
90.5- 91.5, N=25
95.5- 96.5, N=22
100.5- 101.5, N=32

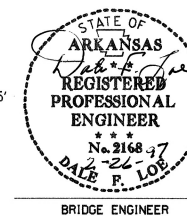
Sta. 967+98 - 28' Left of Center Line of Survey

4.0- 5.0, N=12
9.0- 10.0, N=8
16.0- 17.0, N=7
20.5- 21.5, N=7
25.5- 26.5, N=6
30.5- 31.5, N=37
35.5- 36.5, N=33
40.5- 41.5, N=19
45.5- 46.5, N=20
50.5- 51.5, N=37
55.5- 56.5, N=51
60.5- 61.5, N=34
65.5- 66.5, N=27
70.5- 71.5, N=20
75.5- 76.5, N=12
80.5- 81.5, N=31
85.5- 86.5, N=15
90.5- 91.5, N=45
95.5- 96.5, N=30
100.5- 101.5, N=21

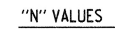
SHEET 1 OF 3

LAYOUT OF BRIDGES OVER
BAYOU BARTHOLOMEW
CANE CR. & BAYOU BARTHOLOMEW
STRS. & APPRS. (F)
LINCOLN COUNTY
ROUTE 425 SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: WMAJ DATE: 1-3-96
CHECKED BY: GYA DATE: 6-3-96
DESIGNED BY: ARW DATE: Dec. 95
BRIDGE NO. A6681 DRAWING NO. 38046



* Install Bridge End Terminals as shown. Eliminate or modify approach curb sections to fit bridge end terminal. No payment shall be made for eliminating or modifying these curbs but shall be considered in payment made for approach gutters (Type B).



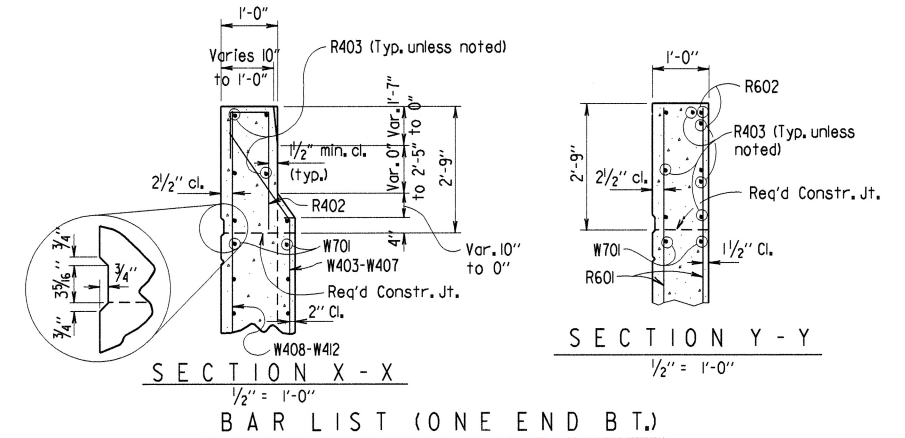
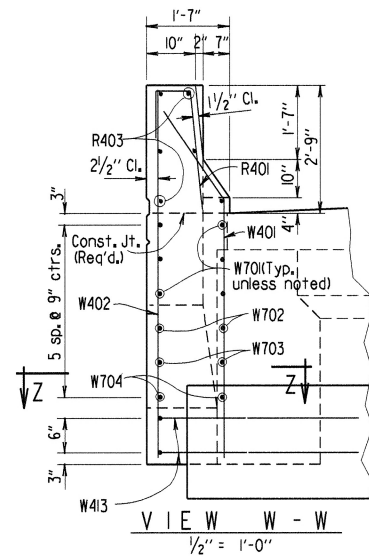
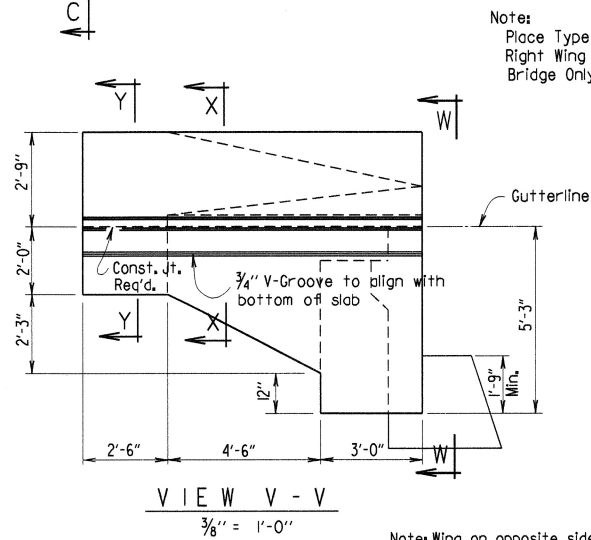
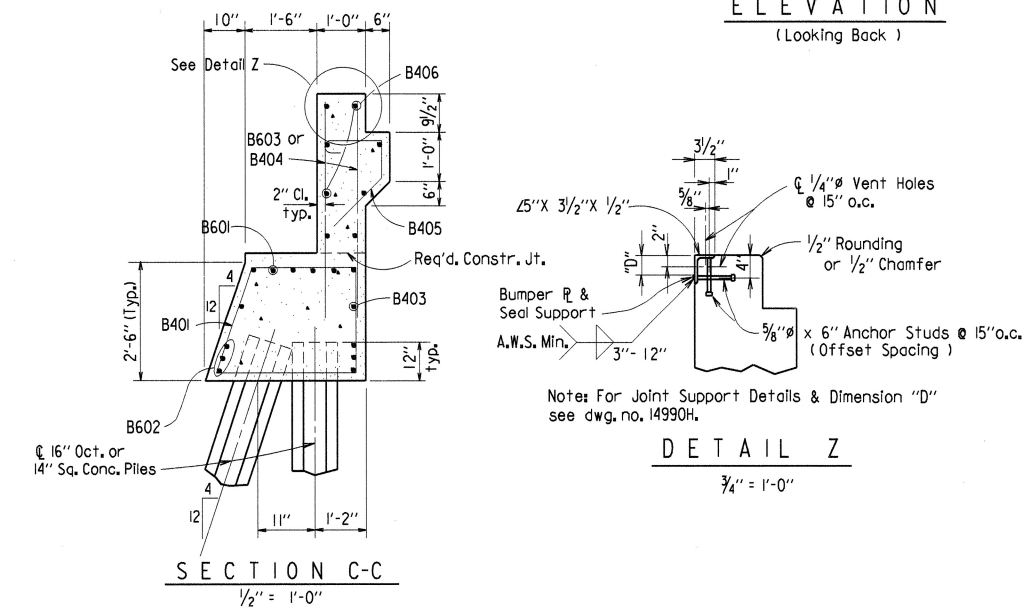
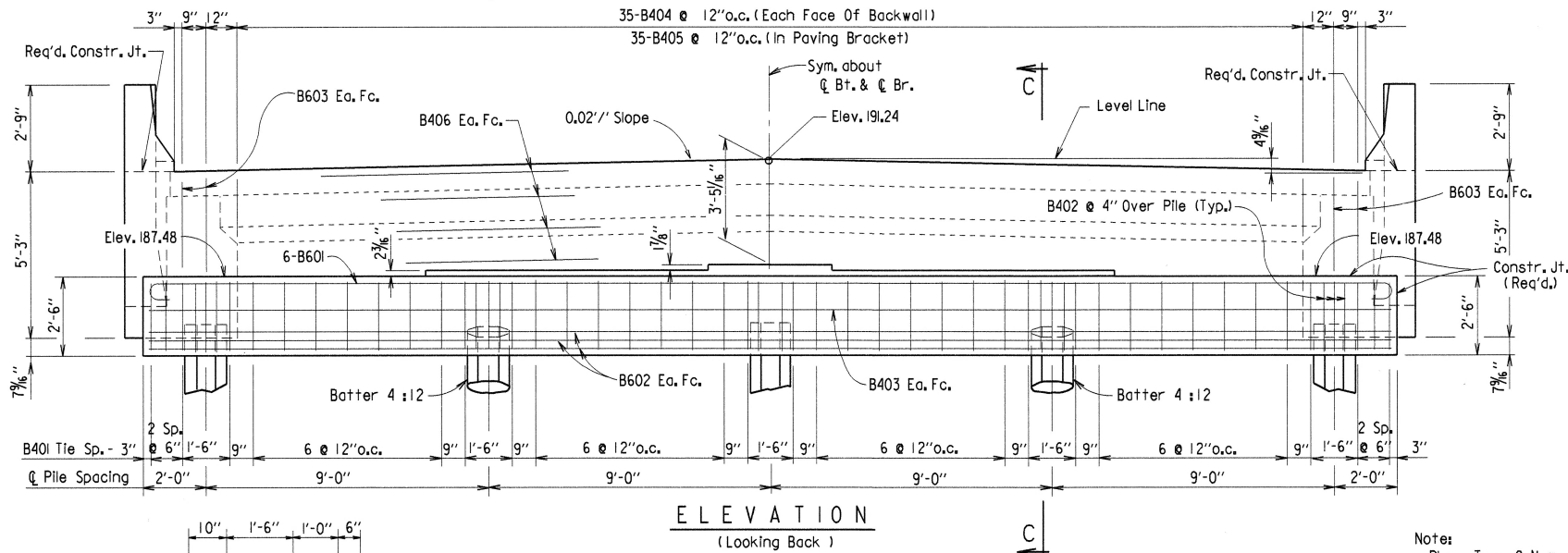
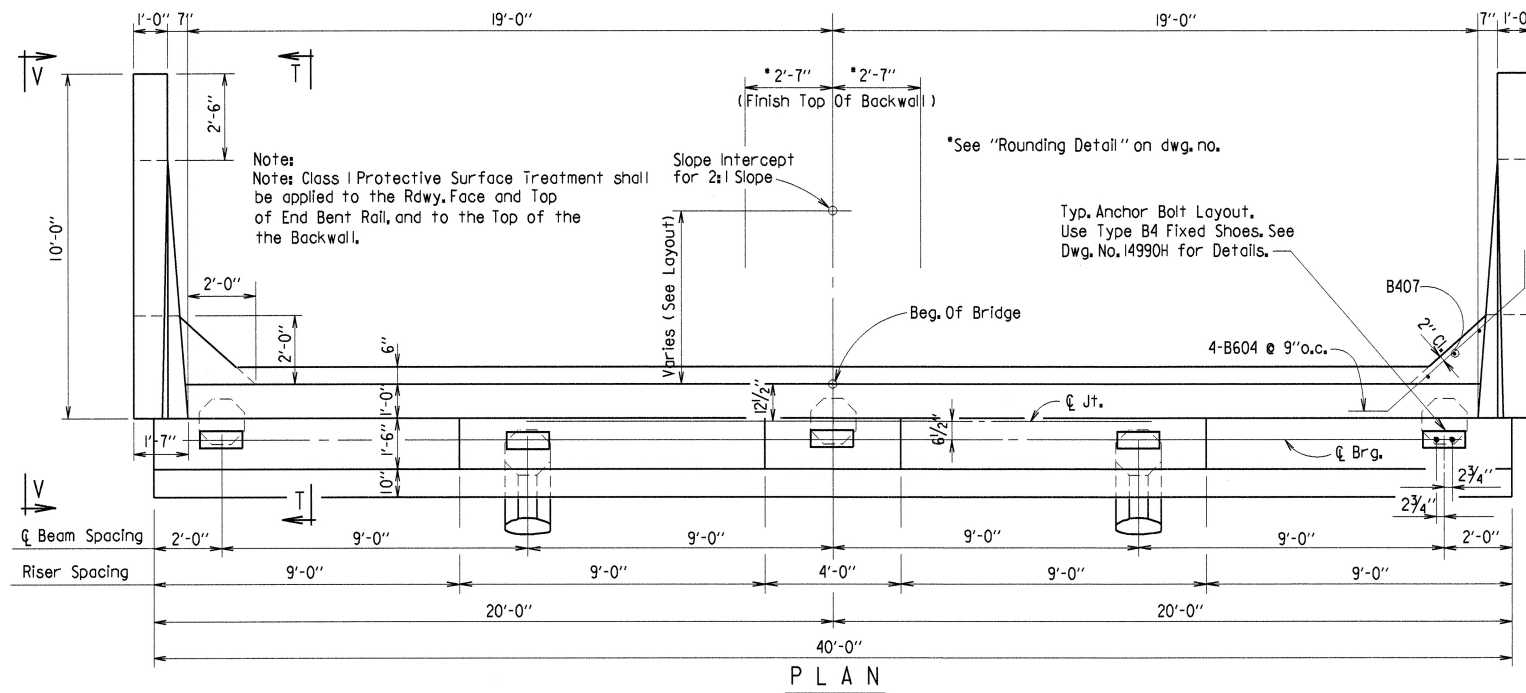
Sta. 968+00 20' Right of Center Line of Survey

3. 7 -	4. 7, N=16
8. 7 -	9. 7, N=3
13. 7 -	14. 7, N=8
20. 5 -	21. 5, N=3
25. 5 -	26. 5, N=8
30. 5 -	31. 5, N=35
35. 5 -	36. 5, N=36
40. 5 -	41. 5, N=35
45. 5 -	46. 5, N=32
50. 5 -	51. 5, N=37
55. 5 -	56. 5, N=23
60. 5 -	61. 5, N=23
65. 5 -	66. 5, N=22
70. 5 -	71. 5, N=19
75. 5 -	76. 5, N=25
80. 5 -	81. 5, N=20
85. 5 -	86. 5, N=31
90. 5 -	91. 5, N=26
95. 5 -	96. 5, N=38
100. 5 -	101. 5, N=40



DRAWN BY: WMAJ DATE: 1-3-96
CHECKED BY: GVA DATE: 6-3-96 SCALE: 1" = 20'
DESIGNED BY: ARW DATE: Dec. 95
BRIDGE NO. B6681 DRAWING NO. 38047

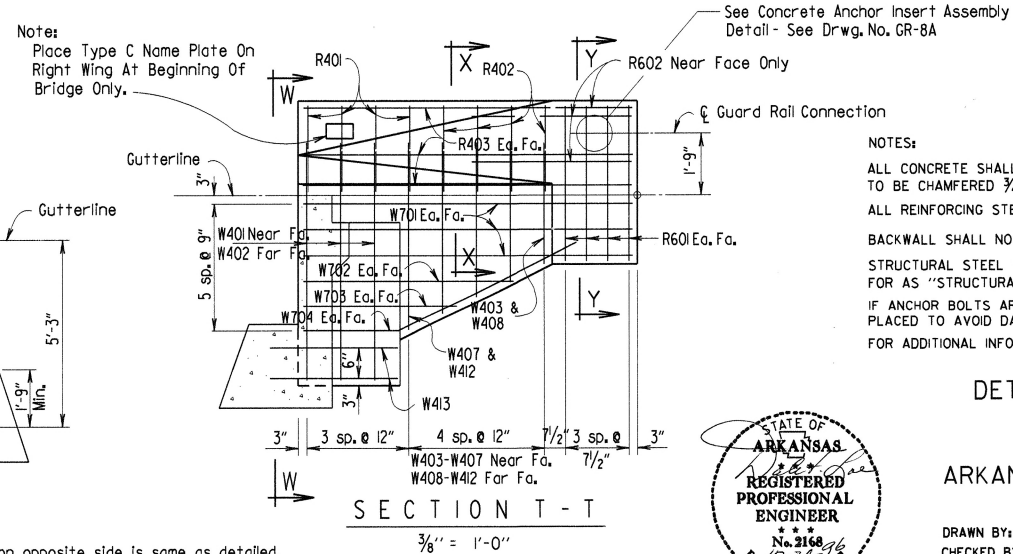
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				00. NO.		02012	61	139
				① B6681	BENT	38054		



Mark	No. Req'd.	Length	A	B	Pin Dia.
B401	42	9'-11"	2'-2"	2'-11"	2"
B402	15	6'-6"	2'-2"	2'-11"	2"
B403	2	39'-8"			Str.
B404	70	4'-11"			Str.
B405	35	3'-11"	1'-2"	4 1/2"	2"
B406	16	2'-3"			Str.
B407	6	4'-1"			Str.
B601	6	4'-0"	39'-8"	6"	4 1/2"
B602	6	39'-8"			Str.
B603	8	4'-11"			Str.
B604	8	7'-3"	5'-3"	1'-0"	4 1/2"
R401	8	3'-11"			2"
R402	8	4'-0"			2"
R403	12	9'-8"			Str.
R601	16	4'-5"			Str.
R602	6	5'-0"			Str.
W401	6	6'-6"	5'-4"	1'-2"	2"
W402	6	7'-8"			Str.
W403-W407	2 Ea.	Var. 3'-5" to 5'-5"	Var. 2'-3" to 4'-3"	1'-2"	2"
W408-W412	2 Ea.	Var. 4'-6" to 6'-6"			Str.
W413	4	7'-11"	1'-1"	4'-3"	2"
W701	12	9'-8"			Str.
W702	4	6'-0"			Str.
W703	4	4'-6"			Str.
W704	4	8'-4"			5 1/4"

Bending Diagrams

(Dimensions are out to out of bars.)



NOTES:

ALL CONCRETE SHALL BE CLASS "S" AND BE POURED IN THE DRY. ALL EXPOSED CORNERS TO BE CHAMFERED $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M53, GRADE 60.

BACKWALL SHALL NOT BE POURED BEFORE BEAMS ARE IN PLACE.

STRUCTURAL STEEL IN END BENTS SHALL BE AASHTO M270, GR. 50W AND SHALL BE PAID FOR AS "STRUCTURAL STEEL IN BEAM SPANS (M270, GR. 50W)".

IF ANCHOR BOLTS ARE DRILLED INTO CAP, TOP REINFORCING BARS SHALL BE PROPERLY PLACED TO AVOID DAMAGE.

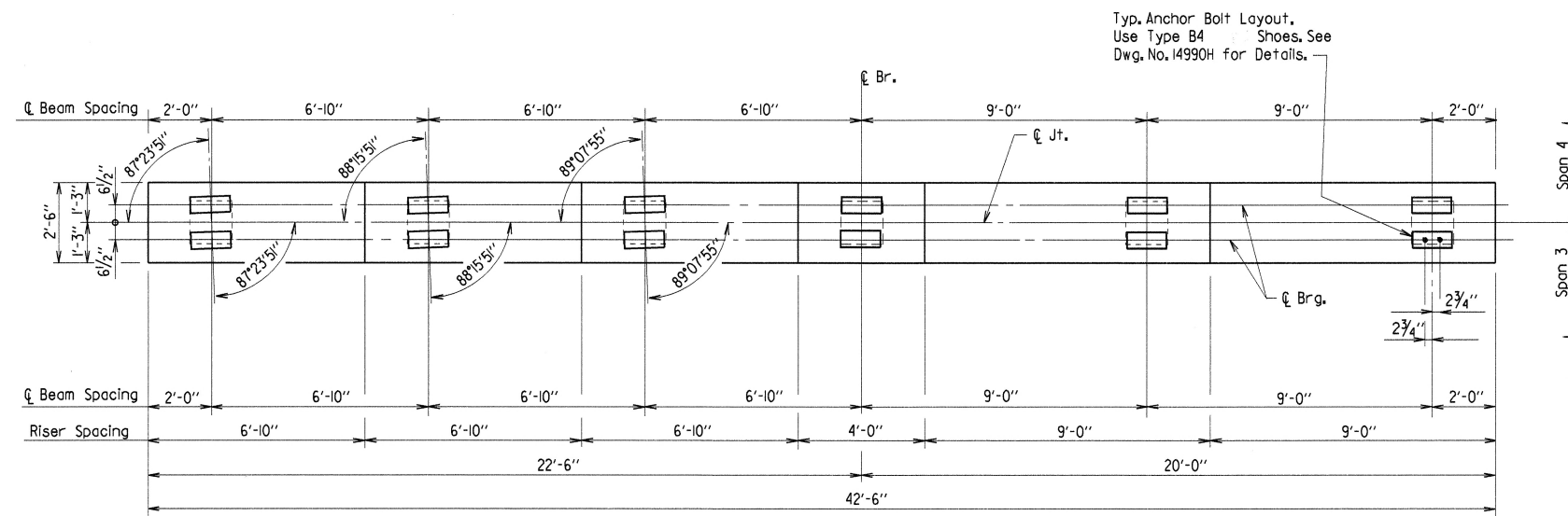
FOR ADDITIONAL INFORMATION, SEE LAYOUT.

DETAILS OF BENT 1 FOR BRIDGE B
BAYOU BARTHOLOMEW
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

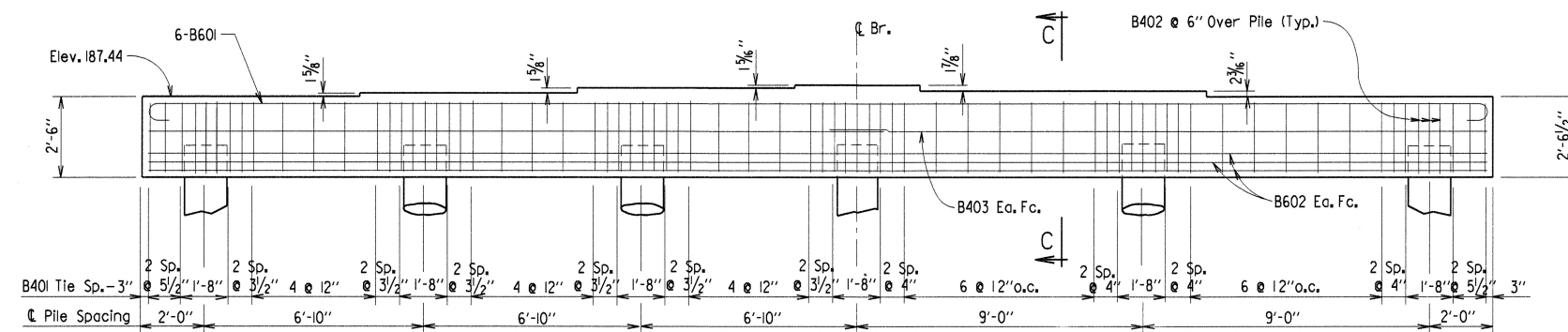
DRAWN BY: WMA DATE: 7-2-96
 CHECKED BY: ARW DATE: 10-14-96 SCALE: $\frac{3}{8}" = 1'-0"$ Or As Shown
 DESIGNED BY: ARW DATE: Jan-96
 BRIDGE NO. B668! DRAWING NO. 38054

I, 550, 300I, 20I | 2, RWME548, B20I | 2X2B.BI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02012	64	139
			(1)	B6681		BENT		38057

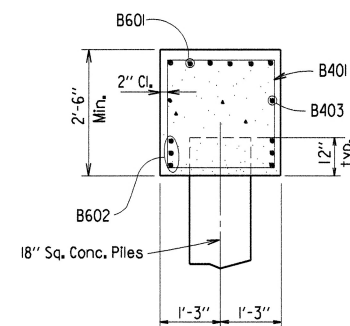


PLAN



ELEVATION

(Looking Fwd.)



S E C T I O N C-C

$$\frac{1}{2}'' = 1'-0''$$

NOTES:

ALL CONCRETE SHALL BE CLASS "S" AND BE POURED IN THE DRY. ALL EXPOSED CORNERS TO BE CHAMFERED $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M53, GRADE 60.

IF ANCHOR BOLTS ARE DRILLED INTO CAP, TOP REINFORCING BARS SHALL BE PROPERLY PLACED TO AVOID DAMAGE.

FOR ADDITIONAL INFORMATION, SEE LAYOUT.



DETAILS OF BENT 4 FOR BRIDGE B
BAYOU BARTHOLOMEW
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: WMAJ DATE: 7-8-96
 CHECKED BY: ALW DATE: 10-11-96 SCALE: 3/8" = 1'-0" Or As Shown
 DESIGNED BY: ALW DATE: Jan-96
 BRIDGE NO. B668I DRAWING NO. 38057

○



(Looking Fwd.)

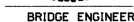

$$\frac{1}{2}'' = 1'-0''$$

FOR ADDITIONAL INFORMATION, SEE LAYOUT.

Span 4 | Span 5 |

[illegible]

BRIDGE NO. B668I DRAWING NO. 38058



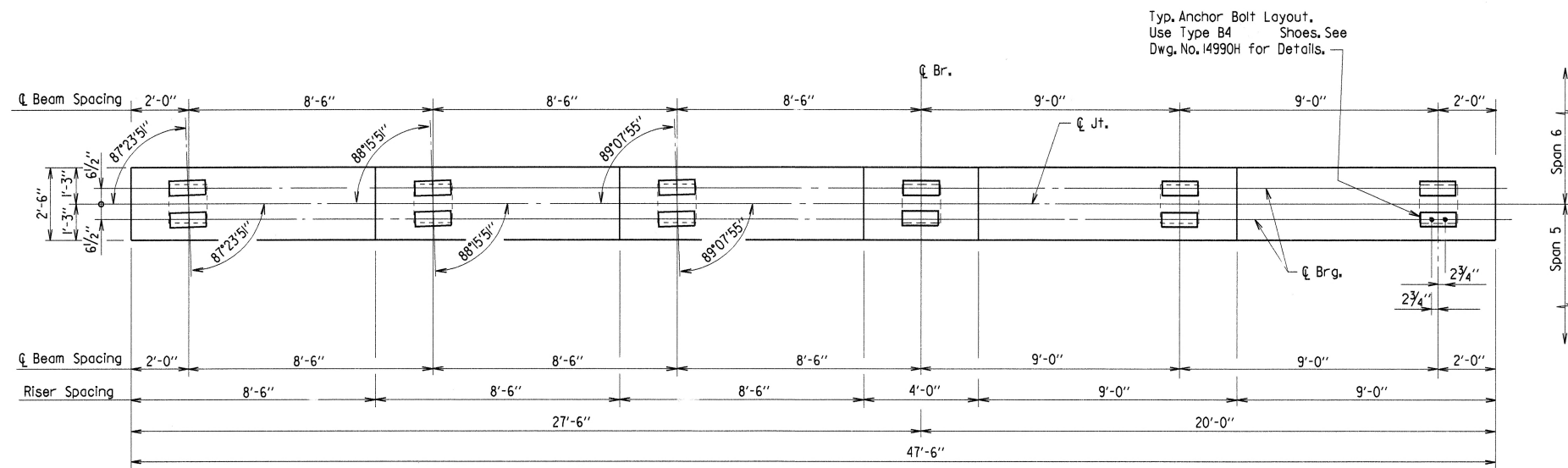
SCALE: $\frac{3}{8}" = 1'-0"$ Or As Shown

DRAWING NO. 38058

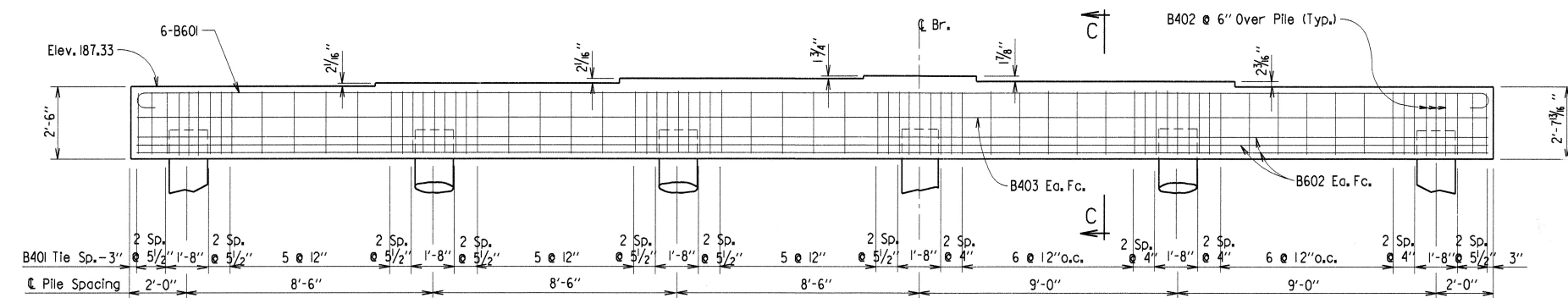
I, 550, 300I, 20112, RWME548, B20112X2B.B5

MICROFILMED
MAY 14 1997

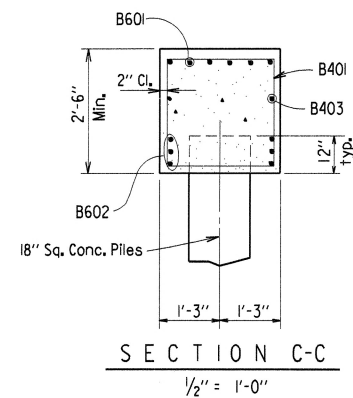
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				6	ARK.			
				JOB NO.		020112	66	139
				① B6681		BENT		38059



PLAN



E L E V A T I O N
(Looking Fwd.)



NOTES:

ALL CONCRETE SHALL BE CLASS "S" AND BE POURED IN THE DRY. ALL EXPOSED CORNERS TO BE CHAMFERED $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M53, GRADE 60.

IF ANCHOR BOLTS ARE DRILLED INTO CAP, TOP REINFORCING BARS SHALL BE PROPERLY PLACED TO AVOID DAMAGE.

FOR ADDITIONAL INFORMATION, SEE LAYOUT.

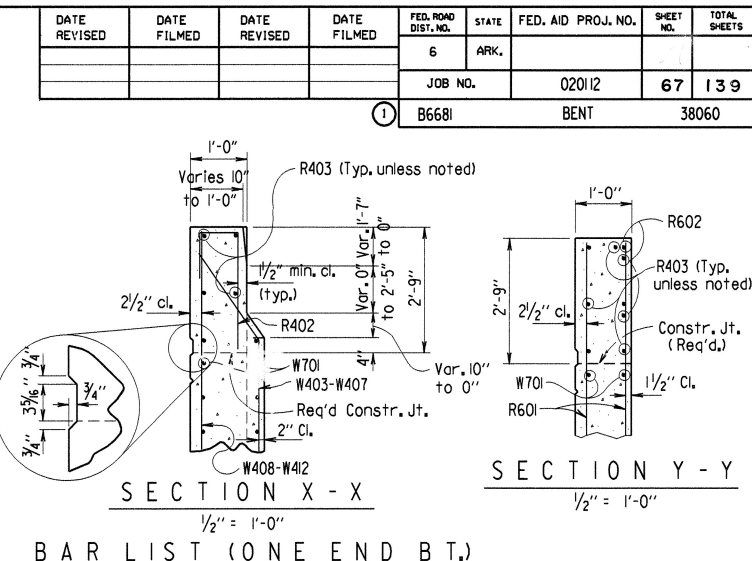
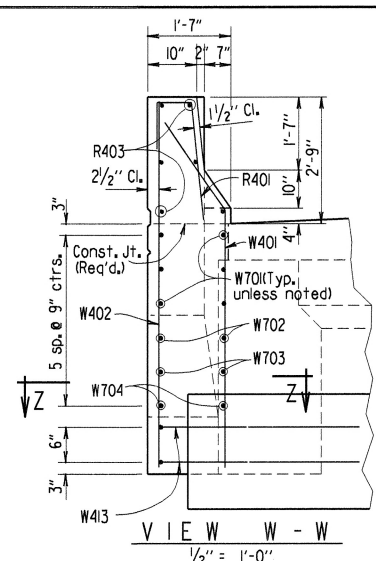
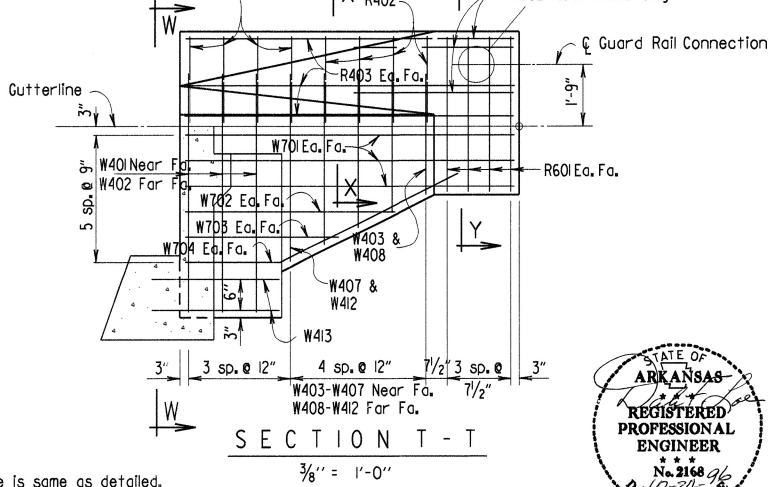
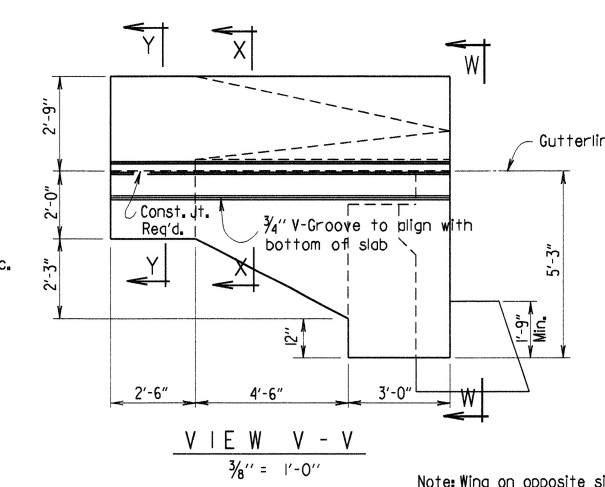
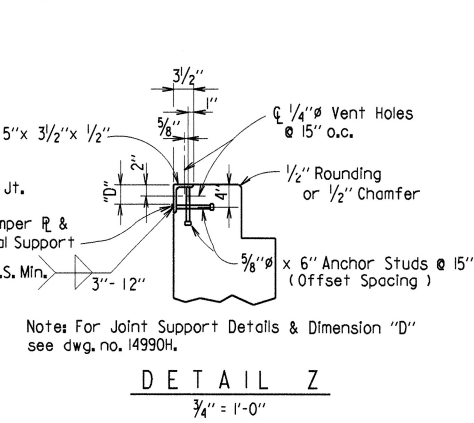
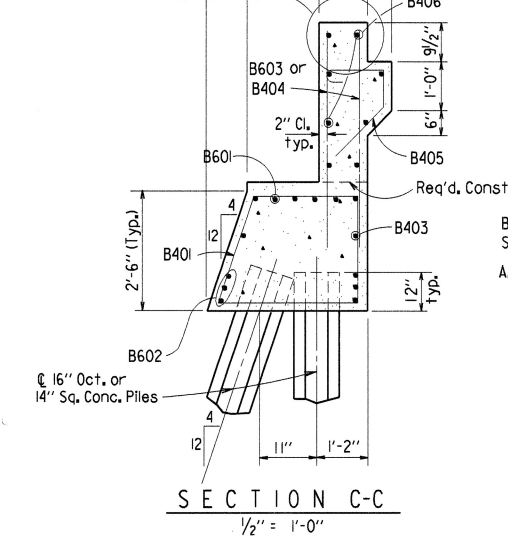
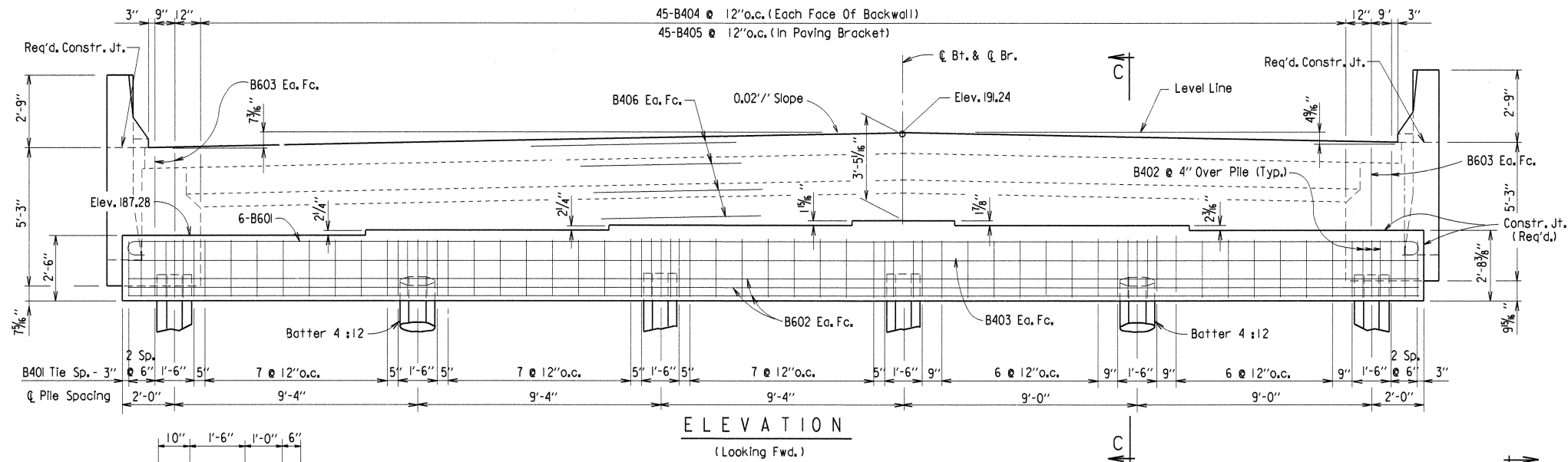
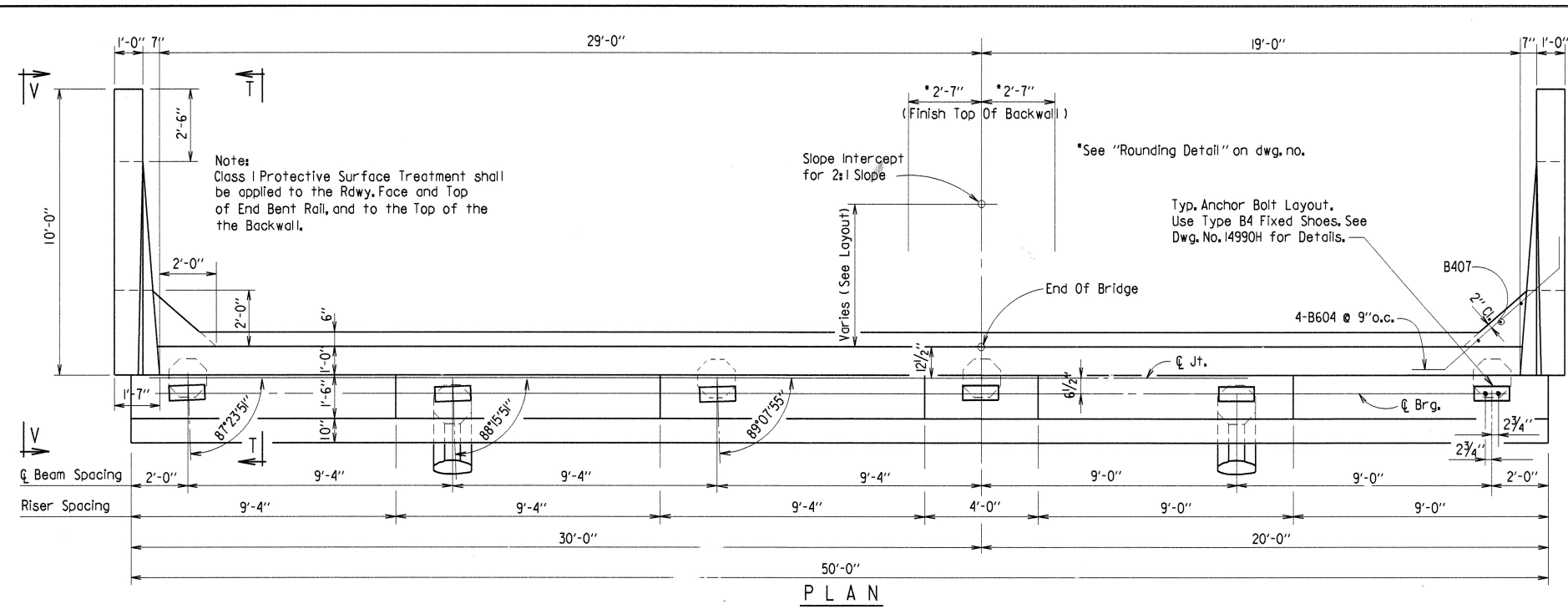
BAR LIST (ONE INT. BENT)[illegible]

DETAILS OF BENT 6 FOR BRIDGE B
BAYOU BARTHOLOMEW
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

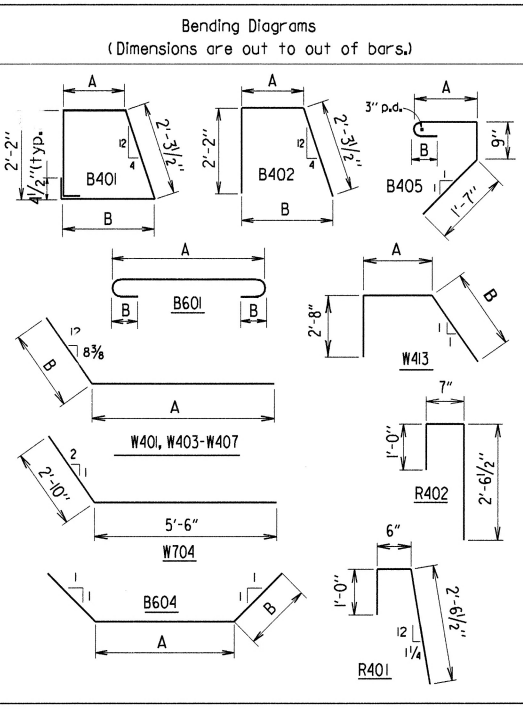
DRAWN BY: WMAJ DATE: 7-8-96
 CHECKED BY: ARW DATE: 10-11-96 SCALE: 3/8" = 1'-0" Or As Shown
 DESIGNED BY: ARW DATE: Jan-96
 BRIDGE NO. B668I DRAWING NO. 38059



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		020112	67	139
				B6681	BENT		38060	



Mark	No. Req'd.	Length	A	B	Pin Dia.
B401	54	9'-11"	2'-2"	2'-11"	2"
B402	18	6'-6"	2'-2"	2'-11"	2"
B403	4	25'-8"			Str.
B404	90	4'-11"			Str.
B405	45	3'-11"	1'-2"	4 1/2"	2"
B406	16	26'-3"			Str.
B407	6	4'-1"			Str.
B601	6	51'-0"	49'-8"	6"	4 1/2"
B602	6	49'-8"			Str.
B603	8	4'-11"			Str.
B604	8	7'-3"	5' 3"	1'-0"	4 1/2"
R401	8	3'-11"			2"
R402	8	4'-0"			2"
R403	12	9'-8"			Str.
R601	16	4'-5"			Str.
R602	6	5'-0"			Str.
W401	6	6'-6"	5'-4"	1'-2"	2"
W402	6	7'-8"			Str.
W403-W407	2 Ea.	Var. 3'-5" to 5'-5"	Var. 2'-3" to 4'-3"	1'-2"	2"
W408-W412	2 Ea.	Var. 4'-6" to 6'-6"			Str.
W413	4	7'-11"	1'-1"	4'-3"	2"
W701	12	9'-8"			Str.
W702	4	6'-0"			Str.
W703	4	4'-6"			Str.
W704	4	8'-4"			5 1/4"

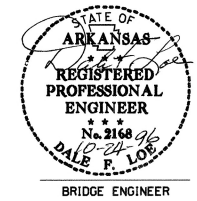


See dwg. no. 38054 for additional notes.

DETAILS OF BENT 7 FOR BRIDGE B
BAYOU BARTHOLOMEW
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

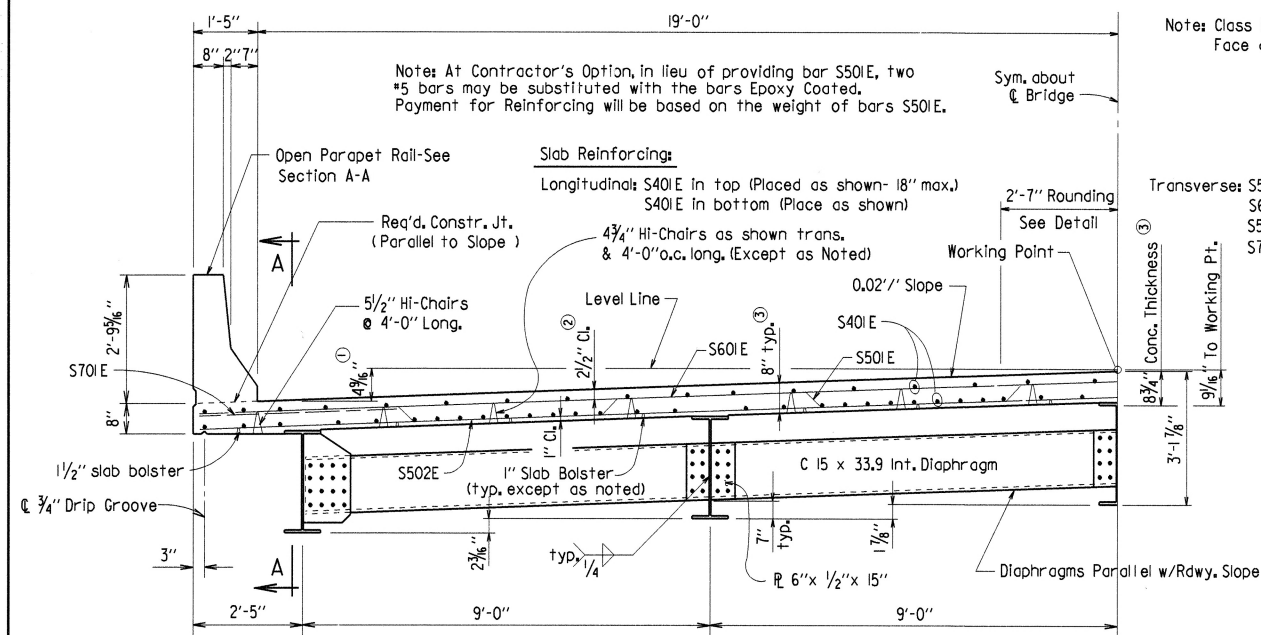
DRAWN BY: WMAJ DATE: 7-2-96
CHECKED BY: JRE DATE: 10-11-96
DESIGNED BY: JRE DATE: Jan-96

BRIDGE NO. B6681 DRAWING NO. 38060

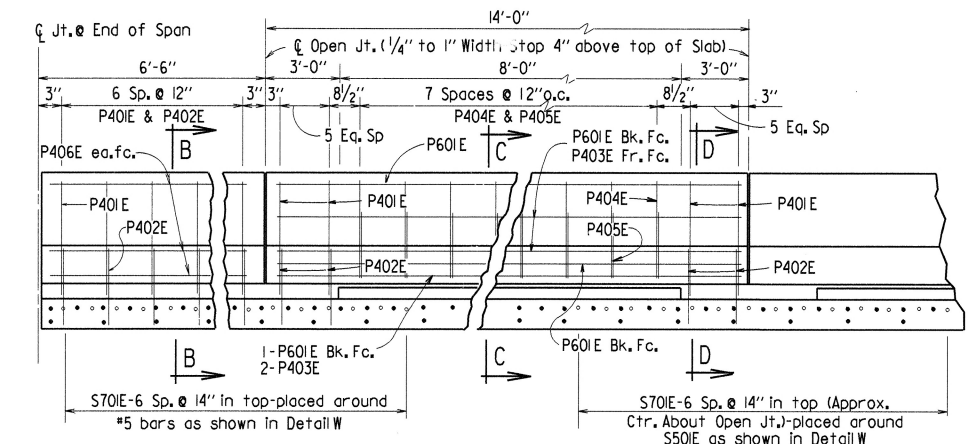
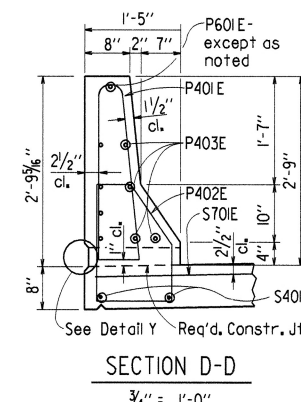
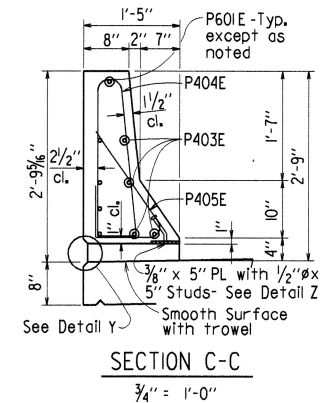
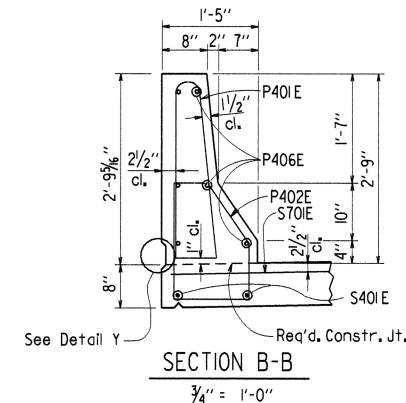
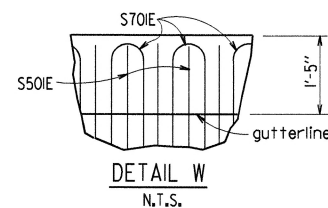


MICROFILMED
MAY 14 1997

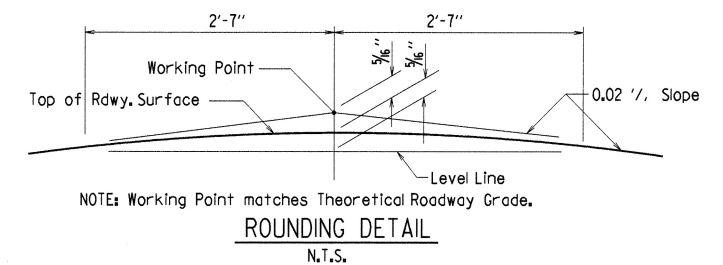
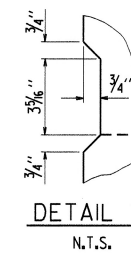
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02012	68	139
				(1) B668		W-BEAM SPAN		3806



Note: Class I Protective Surface Treatment shall be applied to the Roadway Surface, Face and Top of Parapet.



SECTION A-A (FOR OPEN PARAPET RAIL)
N.T.S.



BAR LIST (PER SPAN)

MK	No. Req'd.	Length	Pin Dia.
S40I E	184	28'-4"	Str.
S50I E	46	4'-0"	3"
S502E	47	40'-6"	Str.
S60I E	47	40'-6"	Str.
S70IE	56	10'-9"	5 1/4"
P40IE	100	6'-4"	2"
P402E	100	5'-7"	2"
P403E	24	13'-8"	Str.
P404E	48	5'-10"	2"
P405E	48	3'-2"	2"
P406E	24	6'-2"	Str.
P60I E	30	13'-8"	Str.

Bending Diagrams

(Dimensions are out to out of bars.)

** 1/2" Overtolerance, No Undertolerance.

Sym. abt. C Bridge

P40IE

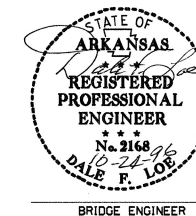
P402E

P404E

P405E

P406E

Note:
For General Notes see dwg. no. 38053
For additional details see dwg. no. 14990H.



DETAILS OF SPANS 1 & 2 FOR BRIDGE B
BAYOU BARTHOLOMEW
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.M.A. DATE: 6-12-96
 CHECKED BY: ARW DATE: 10-14-96 SCALE: 1/2" = 1'-0" or as shown
 DESIGNED BY: ARW DATE: Jan-96
 BRIDGE NO. B668I DRAWING NO. 3806I

① Working Pt. to Gutter Line

③ See "Adjustment For Slab Thickness Tolerance-Detail" see dwg. no. 14990H.

HALF-SECTION NEAR MIDSPAN

$\frac{1}{2}'' = 1'-0''$
(Looking Fwd.-Bridge B)

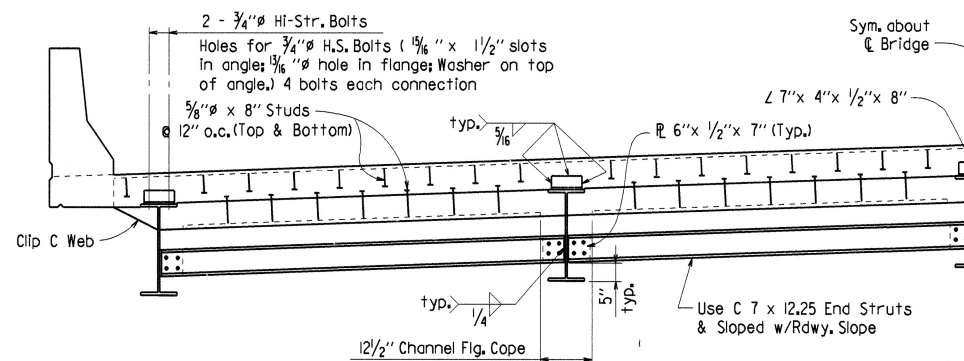
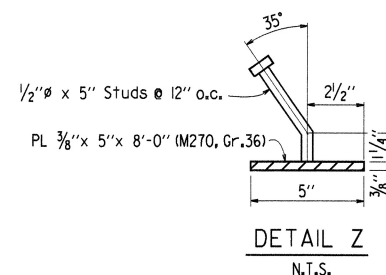
② Tolerance: Minus = $\frac{1}{4}''$

Plus: Equal to amount of slab thickening used to meet slab thickness tolerance-See "Adjustment For Slab Thickness Tolerance".

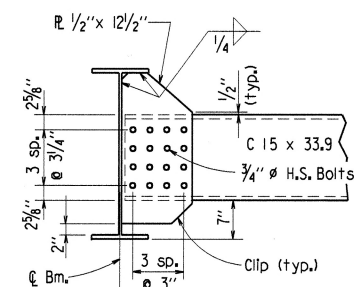
Expansion Device:

Rdwy. C 15 x 33.9
Conn. L's 7"x 4"x 1/2"x 8"
Detail Device 1/8" high & provide 1/4" Shims
using 2- 1/16" & 1- 1/8" R's

5/8"ø x 8" Studs @ 12"o.c. (Top & Bottom)
For Details of Bumper & Seal Support
see dwg. no. 14990H.

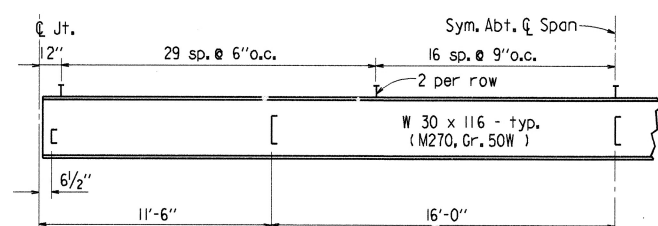
VIEW AT C JOINT
$$\frac{1}{2}'' = 1'-0''$$


Note:
The surfaces of the $\frac{3}{8}$ " Plates which will not be in contact with concrete shall be painted in accordance with Section 638 or as approved by the Engineer. Only one prime coat is required where multiple coats are specified. All coats shall be applied in the fabricator's shop. Painting will not be paid for directly, but will be considered subsidiary to Structural Steel or Class S(AE) Concrete.



Note: Bolts in Diaphragm Connections shall be properly installed and Subsection 807.71 of the Standard Specifications.

DIAPHRAGM CONNECTIONS AT
EXTERIOR BEAMS
N.T.S.



SPACING FOR 7/8" STUD SHEAR
CONNECTORS & DIAPHRAGMS

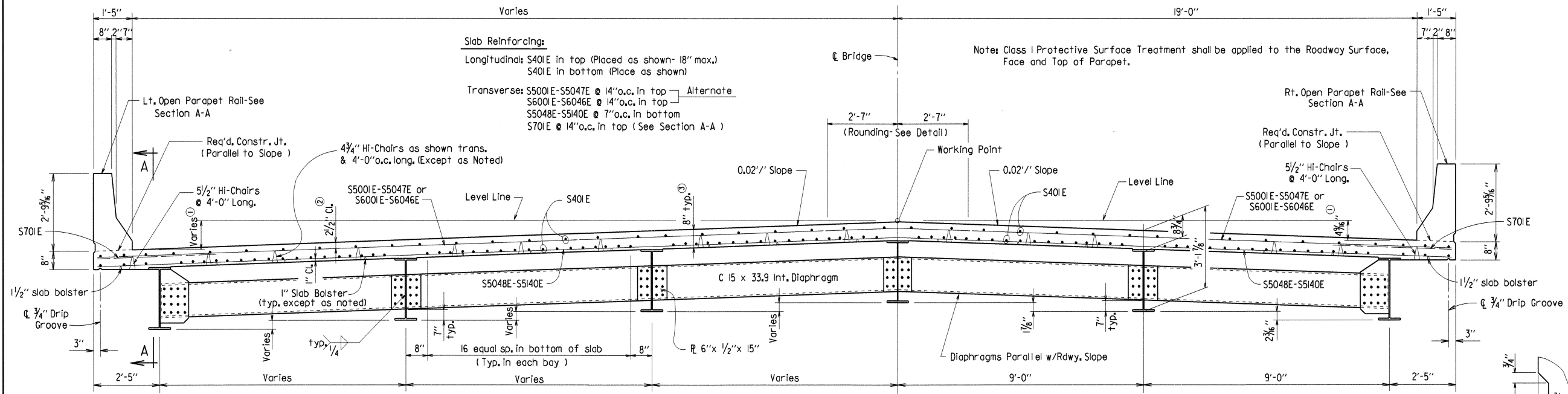
N.T.S.

Note: Stud Shear Connectors shall be 4" long. $\frac{3}{4}$ " ϕ Studs may be used in place of the $\frac{1}{8}$ " ϕ Studs shown, at the ratio of 1.361- $\frac{3}{4}$ " ϕ Studs in place of one $\frac{1}{8}$ " ϕ Stud. $\frac{1}{8}$ " ϕ Studs will be used as basis for measurement of structural steel in shear connectors. Maximum Stud spacing = 24".

DEAD LOAD DEFLECTIONS

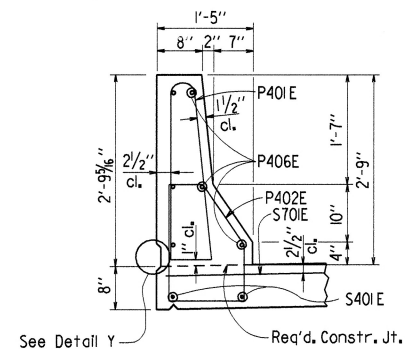
Span Length	Load No.	Loading	Location			
			Int. Beam		Ext. Beam	
			1/4 Pt.	1/2 Pt.	1/4 Pt.	1/2 Pt.
55'	1	Bm. & Diaph.	1/8"	3/8"	1/8"	3/8"
	2	1 & Slab	1/8"	1 3/8"	3/4"	1 1/8"
	3	2 & Parapet	1"	1 1/2"	1 3/4"	1 3/4"

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		020112	69	139
				1	B6681	W-BEAM SPAN		38062

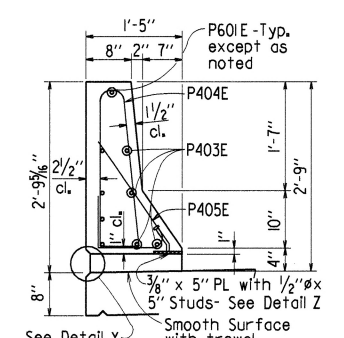


② Tolerance: Minus = 1/4"
Plus: Equal to amount of slab thickening used to meet slab thickness tolerance-See "Adjustment For Slab Thickness Tolerance".

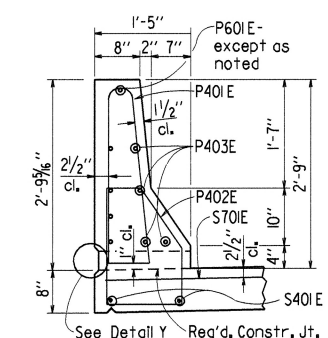
SECTION NEAR MIDSPAN
1/2" = 1'-0"
(Looking Fwd.-Bridge B)



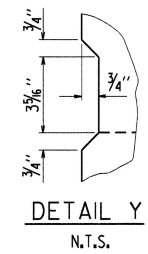
SECTION B-B
3/4" = 1'-0"



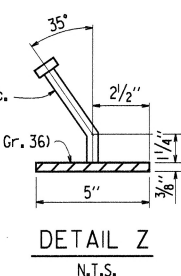
SECTION C-C
3/4" = 1'-0"



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

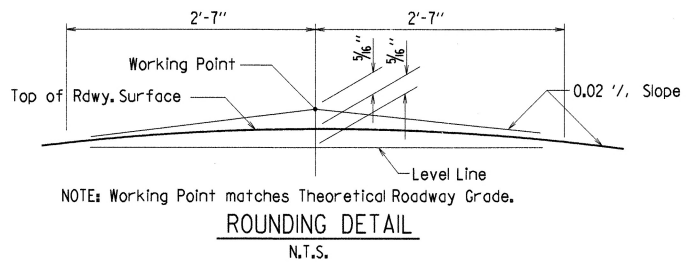


DETAIL Y
N.T.S.

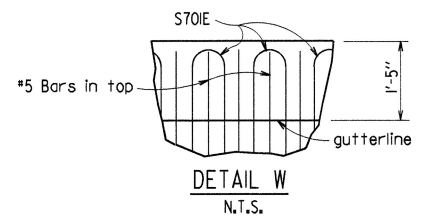


DETAIL Z
N.T.S.

Notes:
The surfaces of the 3/8" Plates which will not be in contact with concrete shall be painted in accordance with Section 638 or as approved by the Engineer. Only one prime coat is required where multiple coats are specified. All coats shall be applied in the fabricator's shop. Painting will not be paid for directly, but will be considered subsidiary to Structural Steel or Class (S)AE Concrete.



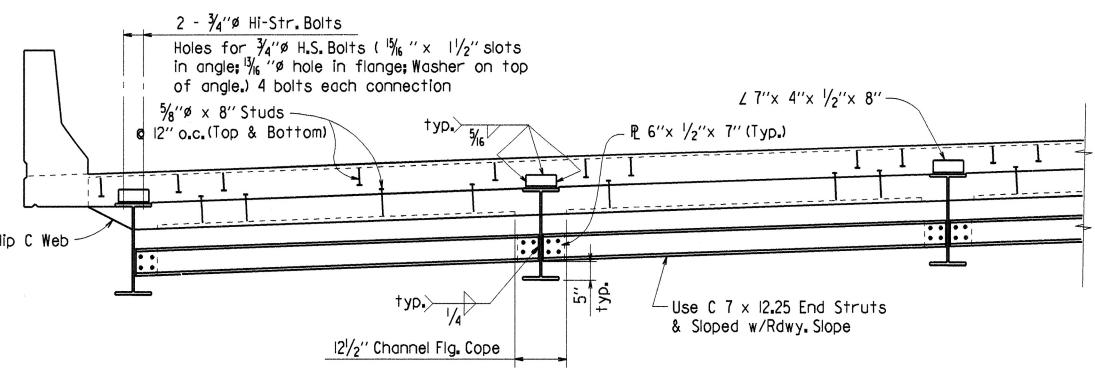
ROUNDING DETAIL
N.T.S.



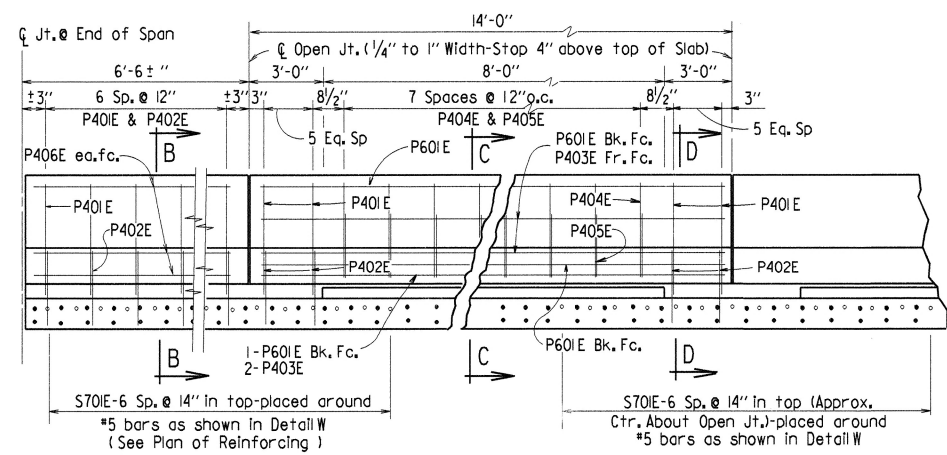
DETAIL W
N.T.S.

DIAPHRAGM CONNECTIONS AT EXTERIOR BEAMS
N.T.S.

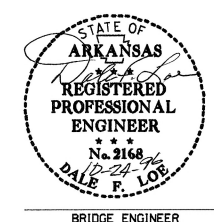
Expansion Device:
Rdwy. C 15 x 33.9
Conn. L's 7"x 4"x 1/2"x 8"
Detail Device 1/8" high & provide 1/4" Shims using 2- 1/16" & 1- 1/8" R's



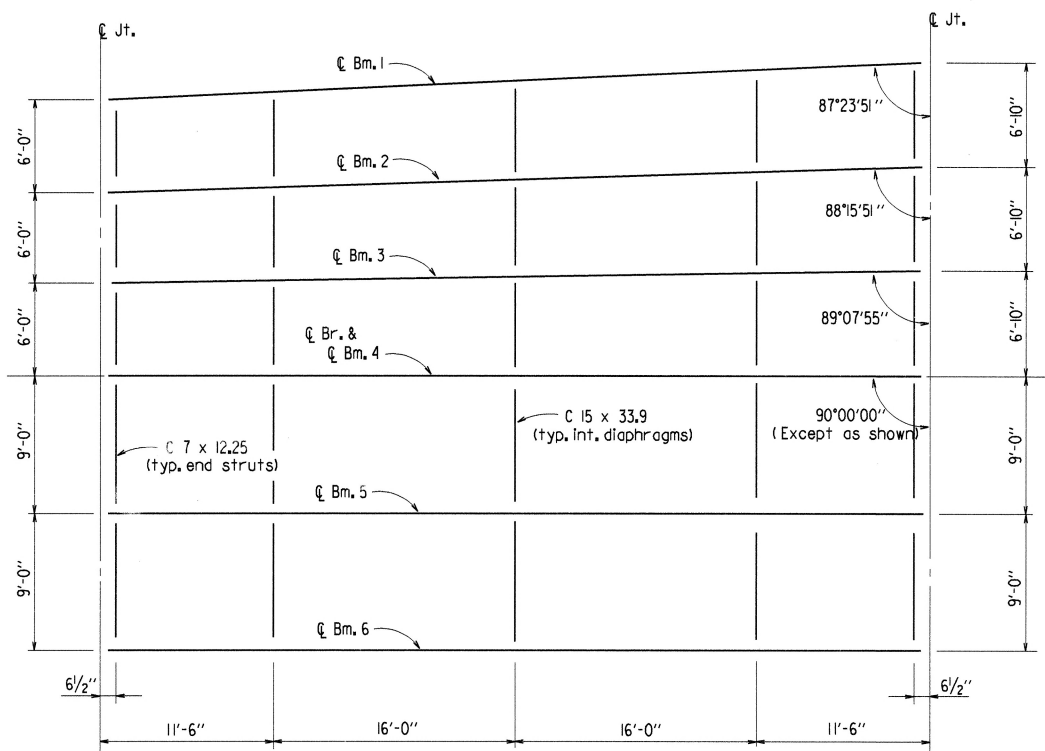
VIEW AT JOINT (TYP.)
1/2" = 1'-0"



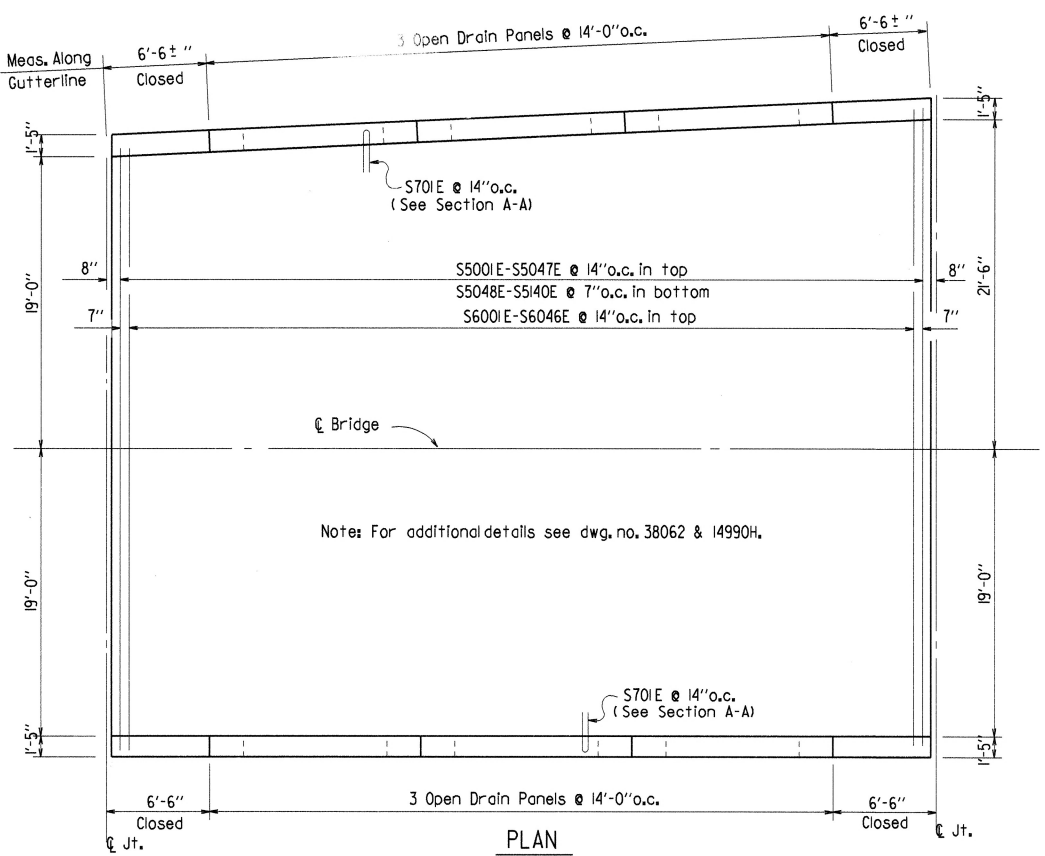
SECTION A-A (FOR OPEN PARAPET RAIL)
N.T.S.



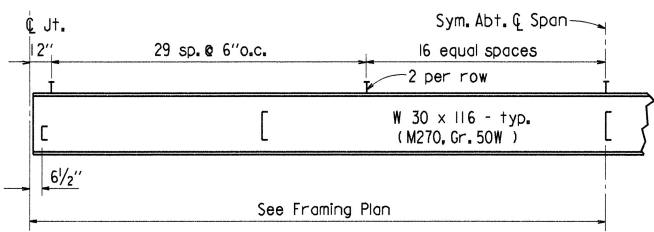
COMMON DETAILS OF SPANS 3-6 FOR BRIDGE B
BAYOU BARTHOLOMEW
ROUTE SEC.
ARIZONA STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: W.M.A. DATE: 6-12-96
CHECKED BY: J.R.L. DATE: 10-14-96
DESIGNED BY: J.R.L. DATE: 10-14-96
BRIDGE NO. B6681 DRAWING NO. 38062



FRAMING PLAN
N.T.S.



PLAN
N.T.S.



SPACING FOR 7/8" STUD SHEAR CONNECTORS & DIAPHRAGMS
N.T.S.

Notes: Stud Shear Connectors shall be 4" long. 3/4" Studs may be used in place of the 7/8" Studs shown, at the ratio of 1.361 - 3/4" Studs in place of one 7/8" Stud. 7/8" Studs will be used as basis for measurement of structural steel in shear connectors. Maximum Stud spacing = 24".

* Beam Lengths
Bm. 1 = 55'-0 1/8"
Bm. 2 = 55'-0 1/8"
Bm. 3 = 55'-0 1/8"
Bm. 4, 5 & 6 = 55'-0"
* Jt. to Jt.

BAR LIST (PER SPAN)

MK	No. Req'd.	Length	Pin Dia.	Bending Diagrams (Dimensions are out to out of bars.)
S401E	264	28'-4"	Str.	
S5001E-S5047E	1 Ea.	40'-4" to 42'-10"	Str.	
S5048E-S5140E	1 Ea.	40'-6" to 43'-0"	Str.	
S6001E-S6046E	1 Ea.	40'-6" to 43'-0"	Str.	
S701E	56	10'-9"	5/4"	
P401E	100	6'-4"	2"	
P402E	100	6'-7"	2"	
P403E	24	13'-8"	Str.	
P404E	48	5'-10"	2"	
P405E	48	3'-2"	2"	
P406E	24	6'-2"	Str.	
P601E	30	13'-8"	Str.	

GENERAL NOTES

The superstructure details shown are for use when removable deck forming is used and are the basis for measurement of Class S(AE) Concrete. See Standard Drawing No. 14991 for allowable modifications and for tolerances when permanent steel bridge deck forms are used.

All Structural Steel shall be AASHTO designation M270, Gr. 50W unless otherwise noted and shall be paid for at the unit price per pound bid for "Structural Steel in Beam Spans (M270, Gr. 50W)". M270, Gr. 50W steel shall not be painted. All exposed surfaces to be cleaned in accordance with subsection 807.84(e) of the Standard Specifications. Structural steel completely embedded in concrete may be AASHTO M270, Gr. 36.

Beams are considered main load carrying members and shall meet the Longitudinal Charpy V-Notch Test specified in Section 807.05.

Design Specifications: AASHTO 1996 with current Interim specifications

Live loading: HS20

Method of Design: Load Factor

Material Strength:
Class S(AE) Concrete (N=8)
Reinforcing Steel (M31 or M53)
Structural Steel (M270, Gr. 36)
Structural Steel (M270, Gr. 50W)

f'_c = 4,000 p.s.i.
 f_y = 60,000 p.s.i.
 F_y = 36,000 p.s.i.
 F_y = 50,000 p.s.i.

Dead Loads:

	Bm. 1	Bms. 2 & 3	Bm. 4	Bm. 5	Bm. 6
A. To W-Beam	563 plf + 1.3 (Wt./Ft. of W-Bm.)	642 plf + 1.3 (Wt./Ft. of W-Bm.)	771 plf + 1.3 (Wt./Ft. of W-Bm.)	900 plf + 1.3 (Wt./Ft. of W-Bm.)	706 plf + 1.3 (Wt./Ft. of W-Bm.)
B. To Composite Beam	318 plf *	318 plf *	318 plf *	318 plf *	318 plf *

Live Load: To each composite beam
1,145 wheels+impact 1,167 wheels+impact 1,402 wheels+impact 1,636 wheels+impact 1,440 wheels+impact

* Includes 188 plf future wearing surface

DEAD LOAD DEFLECTIONS

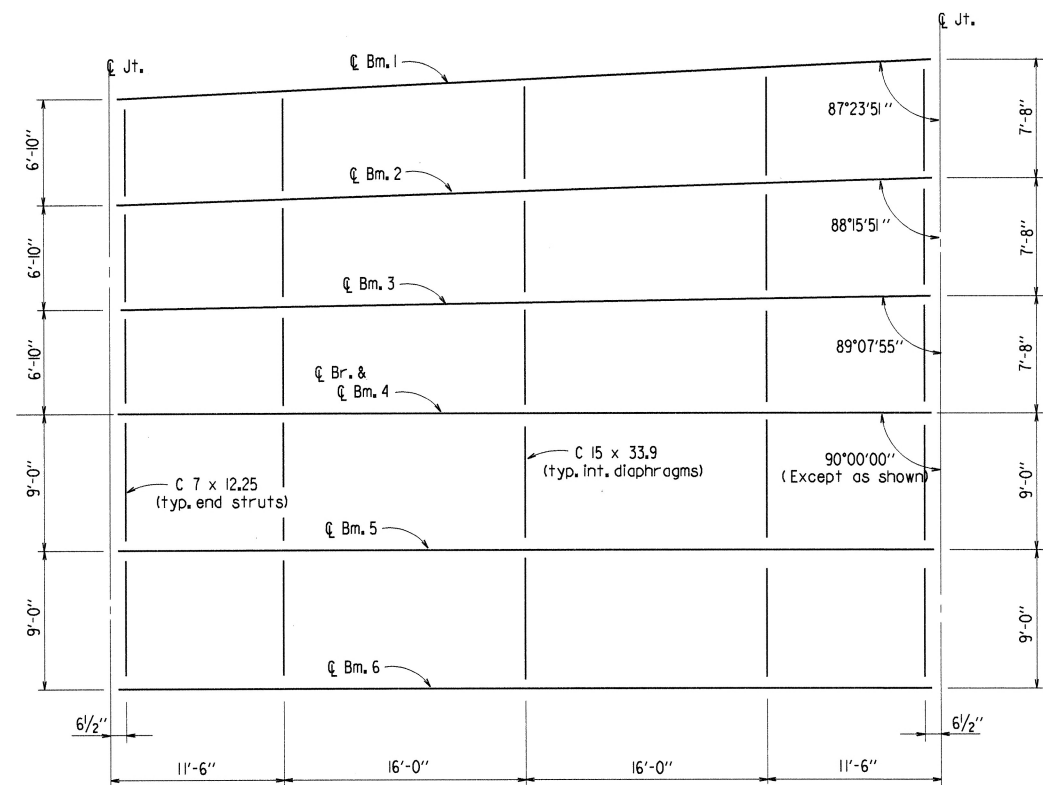
Load No.	Loading	Location											
		Bm. 1			Bms. 2 & 3			Bm. 4			Bm. 5		
		1/4 Pt.	1/2 Pt.	3/4 Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.
1	Bm. & Diaph.	1/8"	3/16"	1/8"	1/8"	3/16"	1/8"	1/8"	3/16"	1/8"	1/8"	3/16"	1/8"
2	1 & Slab	5/8"	1 1/8"	5/8"	3/4"	1 1/8"	3/4"	7/8"	1 1/4"	7/8"	1 1/8"	1 1/4"	7/8"
3	2 & Parapet	3/4"	1"	3/4"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1"	1 1/8"	1 1/8"	1 1/8"



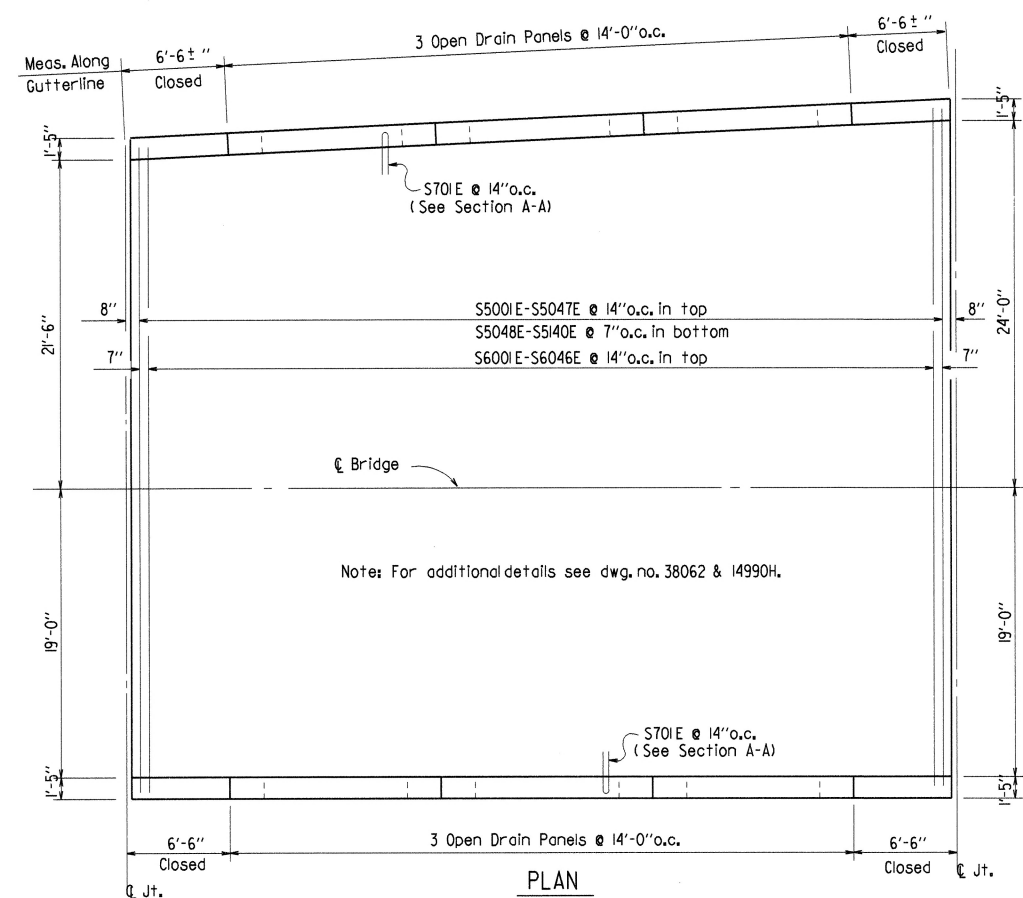
DETAILS OF SPAN 3 FOR BRIDGE B
BAYOU BARTHOLOMEW
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.MAJ. DATE: 6-12-96
CHECKED BY: [Signature] DATE: 10-14-96
DESIGNED BY: [Signature] DATE: 10-24-96
BRIDGE NO. B6681 DRAWING NO. 38063

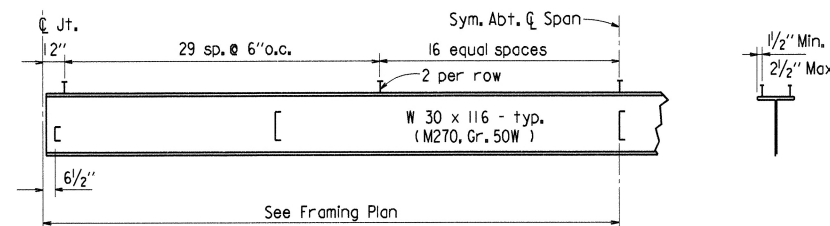
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02012	71	139
				B6681		W-BEAM SPAN		38064



FRAMING PLAN
N.T.S.



PLAN
N.T.S.



SPACING FOR 7/8" STUD SHEAR CONNECTORS & DIAPHRAGMS

N.T.S.
Note: Stud Shear Connectors shall be 4" long. 3/4" Studs may be used in place of the 7/8" Studs shown, at the ratio of 1.361 - 3/4" Studs in place of one 7/8" Stud. 7/8" Studs will be used as basis for measurement of structural steel in shear connectors. Maximum Stud spacing = 24".

GENERAL NOTES

The superstructure details shown are for use when removable deck forming is used and are the basis for measurement of Class S(AE) Concrete. See Standard Drawing No. I499I for allowable modifications and for tolerances when permanent steel bridge deck forms are used.

All Structural Steel shall be AASHTO designation M270, Gr. 50W unless otherwise noted and shall be paid for at the unit price per pound bid for "Structural Steel in Beam Spans (M270, Gr. 50W)". M270, Gr. 50W steel shall not be painted. All exposed surfaces to be cleaned in accordance with subsection 807.84(e) of the Standard Specifications. Structural steel completely embedded in concrete may be AASHTO M270, Gr. 36.

Beams are considered main load carrying members and shall meet the Longitudinal Charpy V-Notch Test specified in Section 807.05.

Design Specifications: AASHTO 1996 with current interim specifications

Live loadings: HS20

Method of Design: Load Factor

Material Strengths:

Class S(AE) Concrete (N=8)

Reinforcing Steel (M31 or M53)

Structural Steel (M270, Gr. 36)

Structural Steel (M270, Gr. 50W)

$f'_c = 4,000$ p.s.i.

$f_y = 60,000$ p.s.i.

$f_y = 36,000$ p.s.i.

$f_y = 50,000$ p.s.i.

Dead Loads:

A. To W-Beam

604 plf + 1.3 (Wt./Ft. of W-Bm.) 725 plf + 1.3 (Wt./Ft. of W-Bm.) 812 plf + 1.3 (Wt./Ft. of W-Bm.) 900 plf + 1.3 (Wt./Ft. of W-Bm.) 706 plf + 1.3 (Wt./Ft. of W-Bm.)

B. To Composite Beam

330 plf* 330 plf* 330 plf* 330 plf* 330 plf*

Live Load: To each composite beam

1,247 wheels+impact 1,318 wheels+impact 1,477 wheels+impact 1,636 wheels+impact 1,440 wheels+impact

* Includes 200 plf future wearing surface

DEAD LOAD DEFLECTIONS

Load No.	Loading	Location											
		Bm. 1			Bms. 2 & 3			Bm. 4			Bm. 5		
		1/4 Pt.	1/2 Pt.	3/4 Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.
1	Bm. & Diaph.	1/8"	3/8"	1/8"	1/8"	3/8"	1/8"	1/8"	3/8"	1/8"	1/8"	3/8"	1/8"
2	1 & Slab	1/16"	1"	1/16"	1/16"	1"	1/16"	1/16"	1"	1/16"	1/16"	1"	1/16"
3	2 & Parapet	3/4"	1 1/16"	3/4"	3/8"	1 1/4"	3/8"	1/2"	1 3/8"	1/2"	1 1/16"	1/2"	1 1/16"

BAR LIST (PER SPAN)

MK	No. Req'd.	Length	Pin Dia.	Bending Diagrams (Dimensions are out to out of bars.)
S401E	264	28'-4"	Str.	
S5001E-S5047E	1 Ea.	42'-10" to 45'-4"	Str.	
S5048E-S5140E	1 Ea.	43'-0" to 45'-6"	Str.	
S6001E-S6046E	1 Ea.	43'-0" to 45'-6"	Str.	
S701E	56	10'-9"	5/4"	
P401E	100	6'-4"	2"	
P402E	100	5'-7"	2"	
P403E	24	13'-8"	Str.	
P404E	48	5'-10"	2"	
P405E	48	3'-2"	2"	
P406E	24	6'-2"	Str.	
P601E	30	13'-8"	Str.	

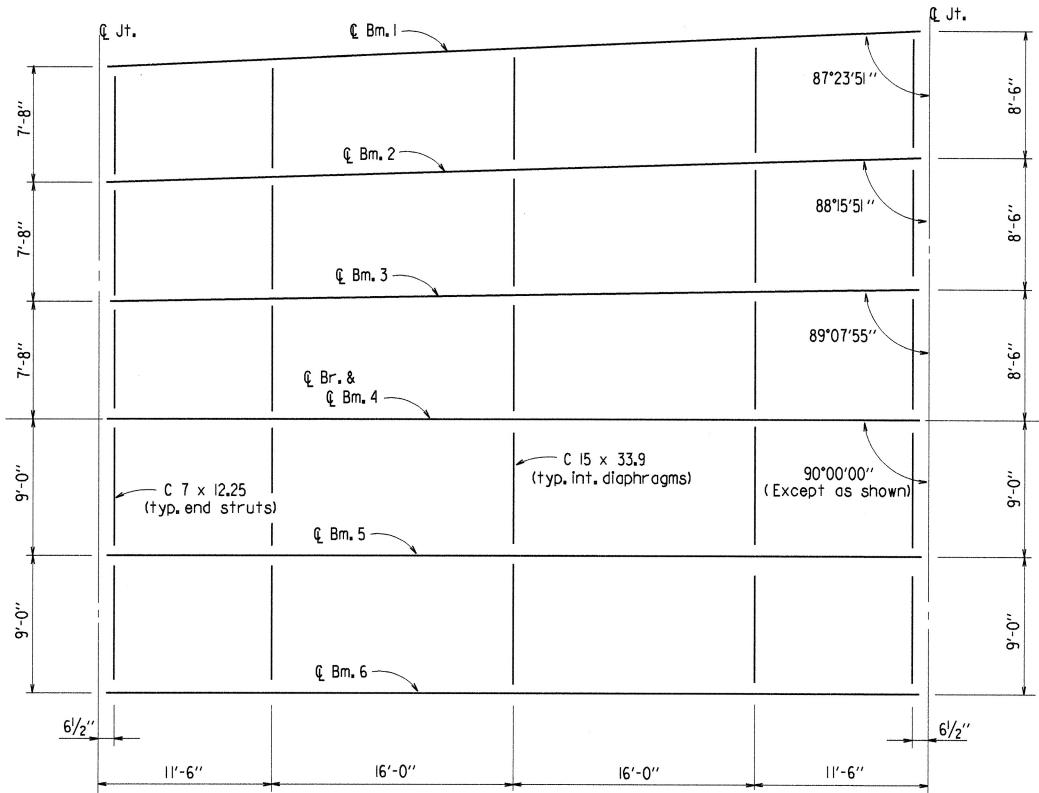
DETAILS OF SPAN 4 FOR BRIDGE B
BAYOU BARTHOLOMEW
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.M.A.J. DATE: 6-12-96
CHECKED BY: ARW DATE: 10-14-96 SCALE: As Shown
DESIGNED BY: ARW DATE: Jan-96
BRIDGE NO. B6681 DRAWING NO. 38064



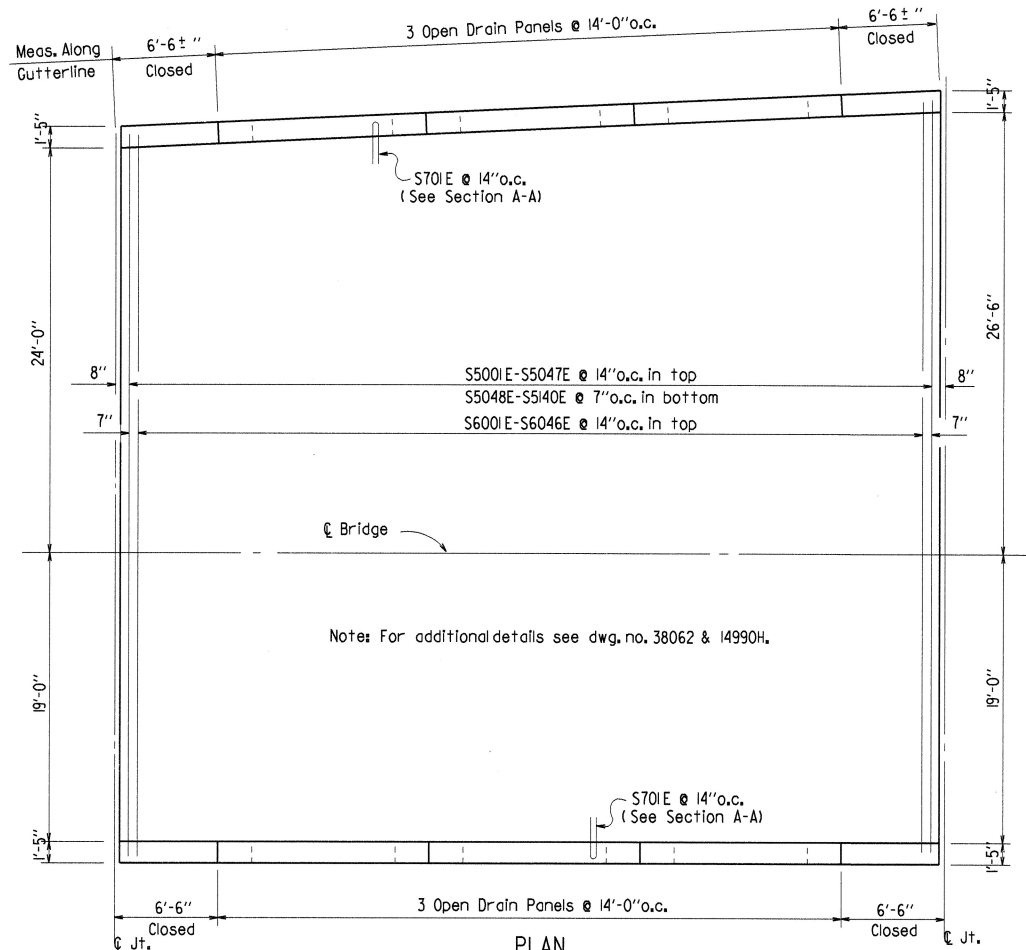
BRIDGE ENGINEER

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		020112	72	139
				B6681	W-BEAM SPAN			38065



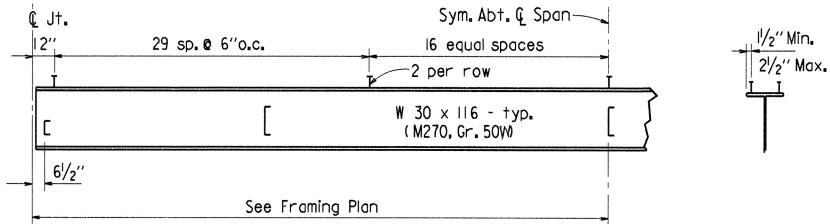
FRAMING PLAN

N.T.S.



PLAN

N.T.S.



SPACING FOR 7/8" STUD SHEAR CONNECTORS & DIAPHRAGMS

N.T.S.

Note: Stud Shear Connectors shall be 4" long. 3/4" Studs may be used in place of the 7/8" Studs shown, at the ratio of 1.361 - 3/4" Studs in place of one 7/8" Stud. 7/8" Studs will be used as basis for measurement of structural steel in shear connectors. Maximum Stud spacing = 24".

*Beam Lengths

Bm. 1 = 55'-0 1/8"
Bm. 2 = 55'-0 7/8"
Bm. 3 = 55'-0 1/8"
Bm. 4, 5 & 6 = 55'-0"

* CL Jt. to CL Jt.

GENERAL NOTES

The superstructure details shown are for use when removable deck forming is used and are the basis for measurement of Class S(AE) Concrete. See Standard Drawing No. 1499I for allowable modifications and for tolerances when permanent steel bridge deck forms are used.

All Structural Steel shall be AASHTO designation M270, Gr. 50W unless otherwise noted and shall be paid for at the unit price per pound bid for "Structural Steel in Beam Spans (M270, Gr. 50W)". M270, Gr. 50W steel shall not be painted. All exposed surfaces to be cleaned in accordance with subsection 807.84(e) of the Standard Specifications. Structural steel completely embedded in concrete may be AASHTO M270, Gr. 36.

Beams are considered main load carrying members and shall meet the Longitudinal Charpy V-Notch Test specified in Section 807.05.

Design Specifications: AASHTO 1996 with current interim specifications

Live loading: HS20

Method of Design: Load Factor

Material Strengths:

Class S(AE) Concrete (N=8)
Reinforcing Steel (M31 or M53)
Structural Steel (M270, Gr. 36)
Structural Steel (M270, Gr. 50W)

f'c = 4,000 p.s.i.
fy = 60,000 p.s.i.
fy = 36,000 p.s.i.
fy = 50,000 p.s.i.

Dead Loads:

A. To W-Beam

B. To Composite Beam

	Bm. 1	Bms. 2 & 3	Bm. 4	Bm. 5	Bm. 6
A. To W-Beam	671 plf + 1.3 (Wt./Ft. of W-Bm.)	858 plf + 1.3 (Wt./Ft. of W-Bm.)	879 plf + 1.3 (Wt./Ft. of W-Bm.)	900 plf + 1.3 (Wt./Ft. of W-Bm.)	706 plf + 1.3 (Wt./Ft. of W-Bm.)
B. To Composite Beam	342 plf*	342 plf*	342 plf*	342 plf*	342 plf*

Live Loads To each composite beam

1,397 wheels+impact 1,561 wheels+impact 1,598 wheels+impact 1,636 wheels+impact 1,440 wheels+impact

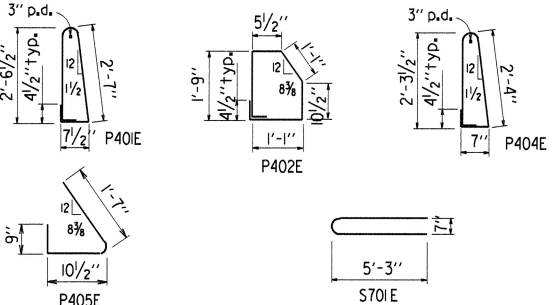
* Includes 212 plf future wearing surface

DEAD LOAD DEFLECTIONS

Load No.	Loading	Location											
		Bm. 1			Bms. 2 & 3			Bm. 4			Bm. 5		
		1/4 Pt.	1/2 Pt.	3/4 Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.
1	Bm. & Diaph.	1/8"	3/16"	1/8"	1/8"	3/16"	1/8"	1/8"	3/16"	1/8"	1/8"	3/16"	1/8"
2	1 & Slab	3/4"	1 1/16"	3/4"	1 1/16"	1 1/16"	1 1/16"	1 1/16"	1 1/16"	1 1/16"	1 1/16"	1 1/16"	1 1/16"
3	2 & Parapet	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"

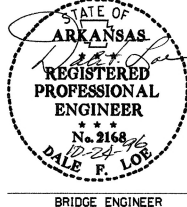
BAR LIST (PER SPAN)

MK	No. Req'd.	Length	Pin Dia.	Bending Diagrams (Dimensions are out to out of bars.)
S401E	264	28'-4"	Str.	
S5001E-S5047E	1 Ea.	45'-4" to 47'-10"	Str.	
S5048E-S5140E	1 Ea.	45'-6" to 48'-0"	Str.	
S6001E-S6046E	1 Ea.	45'-6" to 48'-0"	Str.	
S701E	56	10'-9"	5/4"	
P401E	100	6'-4"	2"	
P402E	100	5'-7"	2"	
P403E	24	13'-8"	Str.	
P404E	48	5'-10"	2"	
P405E	48	3'-2"	2"	
P406E	24	6'-2"	Str.	
P601E	30	13'-8"	Str.	

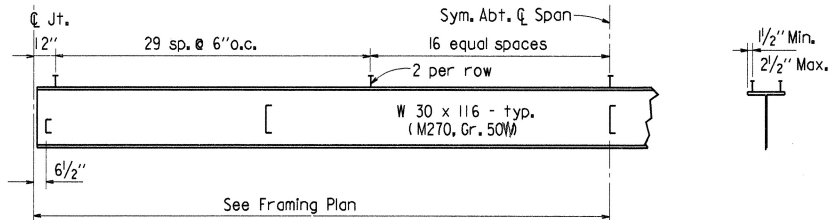
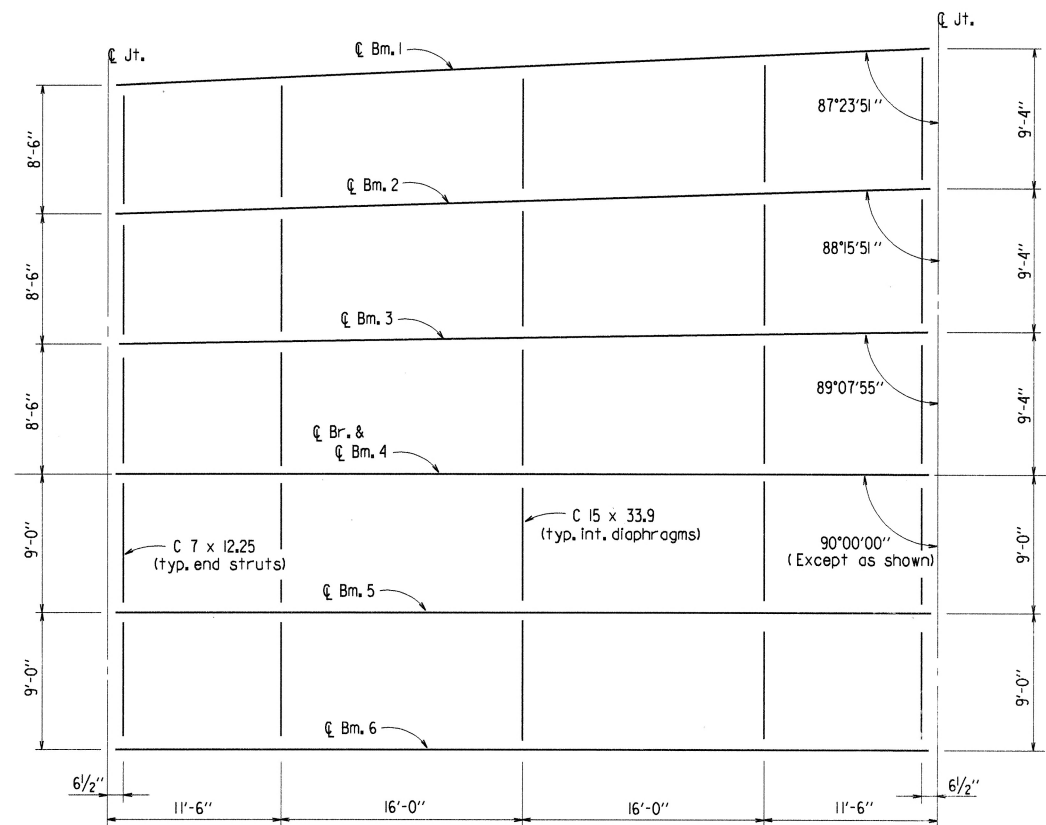


DETAILS OF SPAN 5 FOR BRIDGE B BAYOU BARTHOLOMEW ROUTE SEC. ARKANSAS STATE HIGHWAY COMMISSION LITTLE ROCK, ARK.

DRAWN BY: W.M.A.J. DATE: 6-12-96
CHECKED BY: J.R.W. DATE: 10-14-96 SCALE: As Shown
DESIGNED BY: J.R.W. DATE: 5-21-96
BRIDGE NO. B6681 DRAWING NO. 38065



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		020112	73	139
				1 B6681		W-BEAM SPAN		38066



GENERAL NOTES

The superstructure details shown are for use when removable deck forming is used and are the basis for measurement of Class S(AE) Concrete. See Standard Drawing No. 14991 for allowable modifications and for tolerances when permanent steel bridge deck forms are used.

All Structural Steel shall be AASHTO designation M270, Gr. 50W unless otherwise noted and shall be paid for at the unit price per pound bid for "Structural Steel in Beam Spans (M270, Gr. 50W)". M270, Gr. 50W steel shall not be painted. All exposed surfaces to be cleaned in accordance with subsection 807.84(e) of the Standard Specifications. Structural steel completely embedded in concrete may be AASHTO M270, Gr. 36.

Beams are considered main load carrying members and shall meet the Longitudinal Charpy V-Notch Test specified in Section 807.05.

Design Specifications: AASHTO 1996 with current interim specifications

Live loading: HS20

Method of Design: Load Factor

Material Strengths:
 Class S(AE) Concrete (N=8)
 Reinforcing Steel (M3 or M53)
 Structural Steel (M270, Gr. 36)
 Structural Steel (M270, Gr. 50W)

f'_c = 4,000 p.s.i.
 f_y = 60,000 p.s.i.
 F_y = 36,000 p.s.i.
 F_y = 50,000 p.s.i.

Dead Loads:

	Bm. 1	Bms. 2 & 3	Bm. 4	Bm. 5	Bm. 6
A. To W-Beam	687 plf + 1.3 (Wt./Ft. of W-Bm.)	892 plf + 1.3 (Wt./Ft. of W-Bm.)	896 plf + 1.3 (Wt./Ft. of W-Bm.)	900 plf + 1.3 (Wt./Ft. of W-Bm.)	706 plf + 1.3 (Wt./Ft. of W-Bm.)
B. To Composite Beam	354 plf *	354 plf *	354 plf *	354 plf *	354 plf *

Live Load: To each composite beam
 1,431 wheels+impact 1,621 wheels+impact 1,629 wheels+impact 1,636 wheels+impact 1,440 wheels+impact

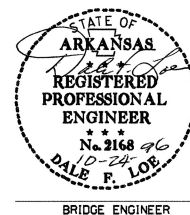
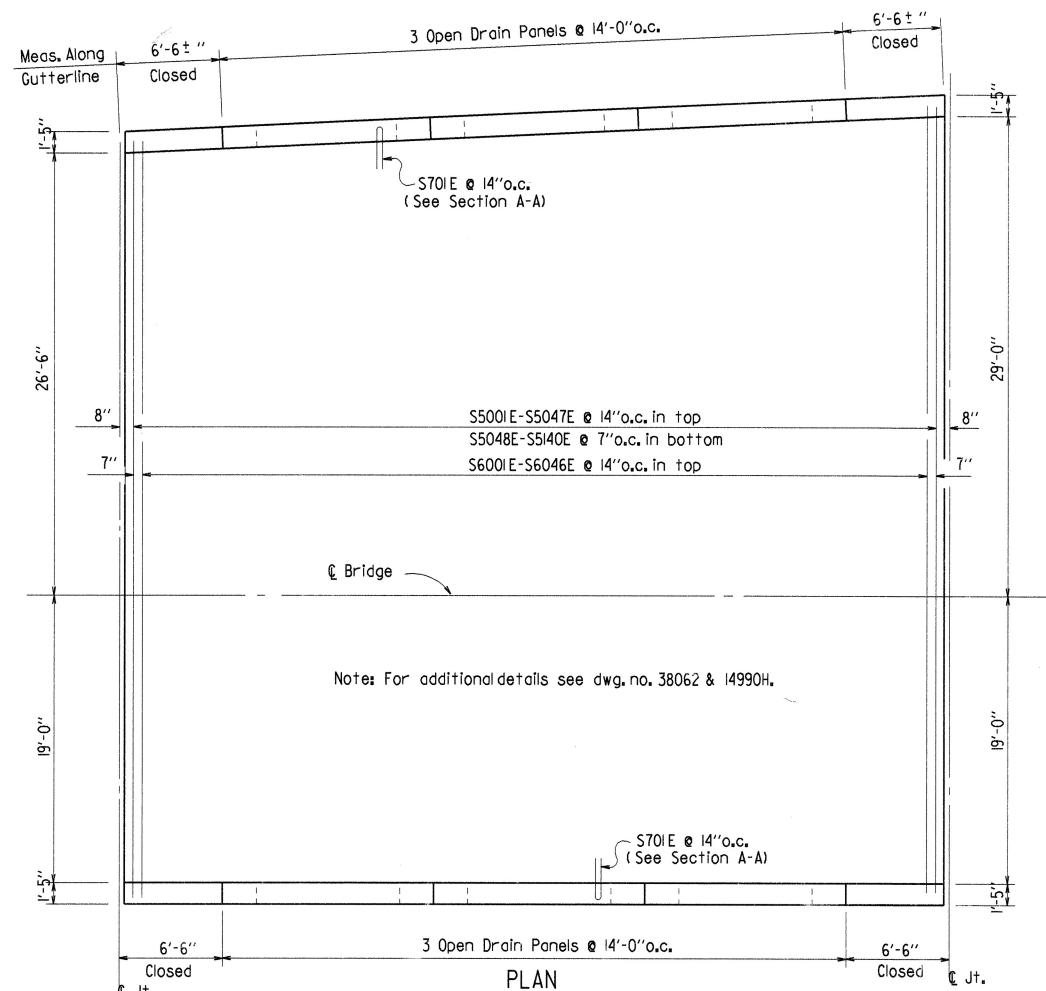
* Includes 224 plf future wearing surface

DEAD LOAD DEFLECTIONS

Load No.	Loading	Location											
		Bm. 1			Bms. 2 & 3			Bm. 4			Bm. 5		
		$\frac{1}{4}$ Pt.	$\frac{1}{2}$ Pt.	$\frac{3}{4}$ Pt.	$\frac{1}{4}$ Pt.	$\frac{1}{2}$ Pt.	$\frac{3}{4}$ Pt.	$\frac{1}{4}$ Pt.	$\frac{1}{2}$ Pt.	$\frac{3}{4}$ Pt.	$\frac{1}{4}$ Pt.	$\frac{1}{2}$ Pt.	$\frac{3}{4}$ Pt.
1	Bm. & Diaph.	$\frac{1}{8}''$	$\frac{3}{16}''$	$\frac{1}{8}''$	$\frac{1}{8}''$	$\frac{3}{16}''$	$\frac{1}{8}''$	$\frac{1}{8}''$	$\frac{3}{16}''$	$\frac{1}{8}''$	$\frac{1}{8}''$	$\frac{3}{16}''$	$\frac{1}{8}''$
2	1 & Slab	$\frac{3}{4}''$	$\frac{1}{16}''$	$\frac{3}{4}''$	1"	$\frac{1}{16}''$	1"	$\frac{1}{16}''$	$\frac{1}{16}''$	1"	$\frac{1}{16}''$	$\frac{1}{16}''$	$\frac{3}{4}''$
3	2 & Parapet	$\frac{1}{16}''$	$\frac{1}{16}''$	$\frac{1}{16}''$	$\frac{1}{16}''$	$\frac{1}{16}''$	$\frac{1}{16}''$	$\frac{1}{16}''$	$\frac{1}{16}''$	1"	$\frac{1}{16}''$	1"	$\frac{1}{16}''$

BAR LIST (PER SPAN)

MK	No. Req'd.	Length	Pin Dia.	Bending Diagrams (Dimensions are out to out of bars.)
S401E	264	28'-4"	Str.	
S5001E-S5047E	1 Ea.	47'-10" to 50'-4"	Str.	
S5048E-S5140E	1 Ea.	48'-0" to 50'-6"	Str.	
S6001E-S6046E	1 Ea.	48'-0" to 50'-6"	Str.	
S701E	56	10'-9"	5/4"	
P401E	100	6'-4"	2"	
P402E	100	5'-7"	2"	
P403E	24	13'-8"	Str.	
P404E	48	5'-10"	2"	
P405E	48	3'-2"	2"	
P406E	24	6'-2"	Str.	
P601E	30	13'-8"	Str.	



DETAILS OF SPAN 6 FOR BRIDGE B
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 ROUTE SEC.
 ARKANSAS STATE HIGHWAY COMMISSION
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