

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.		060616	72	113
				3245AR	LAYOUT		34401	

GENERAL NOTES

BENCH MARK: Chiseled Square 29.849' Lt. of Sta. 5687+42.218, Elev. 377.32.
 CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 1993 edition, with applicable supplemental specifications and special provisions.
 DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 1992 with current interim specifications.

LIVE LOADING: HS20 METHOD OF DESIGN: Load Factor
 SEISMIC PERFORMANCE CATEGORY: A

MATERIALS AND STRENGTHS:
 Superstructure Concrete (see span drws.) $f'c = 4,000$ psi
 Substructure Concrete (Class 5) $f'c = 3,500$ psi
 Reinforcing Steel (A615 or A617, GR. 60) $f_y = 60,000$ psi

STEEL PILING: Piling in End Bents 1 and 6 shall be HP 10x42 and shall be driven with an approved air, steam, or diesel hammer to a minimum safe bearing capacity of 55 tons per pile. Lengths of piling shown are for estimating quantities and for use in determining payment for cut-off and build-up in accordance with the standard specifications. Piles in end bents to be driven after embankment to bottom of cap is in place.

FOOTINGS: Footings shall be set a minimum of 1'-6" into material designated as hard, blue shale on the boring legend of the existing bridge layout and shall have a minimum cover above top of footings of 2'-0". Foundations for footings shall be prepared in accordance with section 801.04 of the Standard Specifications. Rock excavations shall be made to neat lines of the concrete footings. Care shall be exercised to avoid shattering of rock faces by excessive blasting. Concrete in footings shall be poured directly against excavated surfaces of rock.

BRIDGE DECK: The new concrete bridge deck shall be given a fine finish as specified for final finishing in subsection 802.20 for class 5 Bridge Roadway Surface Finish.

BOILED LINSEED OIL: Boiled linseed oil treatment shall be applied to the new concrete deck and to the face and top of the concrete parapet rail.

DETAIL DRAWINGS:

DRAWING NO.

End Bents 34403
 Interior Bents 34404, 34439
 30' R.C. Slab Spans 34405, 34405A
 Approach Slabs and Gutters 2016E & 2017

EXISTING BRIDGE: The existing Bridge No. 3245A is 28' wide and 150' long. The superstructure consists of 5 - 30'-0" R.C. Sonovoid Slab Spans. The substructure consists of concrete end bents with steel piling and concrete column interior bents with spread footings.

THE WORK CONTEMPLATED CONSISTS OF: Removing the existing slab, curb, and rail; repairing and widening the existing substructure; and constructing a new slab and concrete parapet rail. For requirements in conducting the work, see section 821 of the standard specifications.

Remove existing approach slabs and gutters.

All dimensions relating to the existing bridge are to be verified in the field and the contractor shall be responsible for adjusting widening to the existing structure.

Plans of the existing structure will be made available to the Contractor upon request to the Programs and Contracts Division. Existing dwg. nos. 10023, 5421A, 5421B, 5422E.

All material from the existing bridge shall become the property of the contractor except the guard rail and the guard rail posts and spacers which shall remain the property of the state.

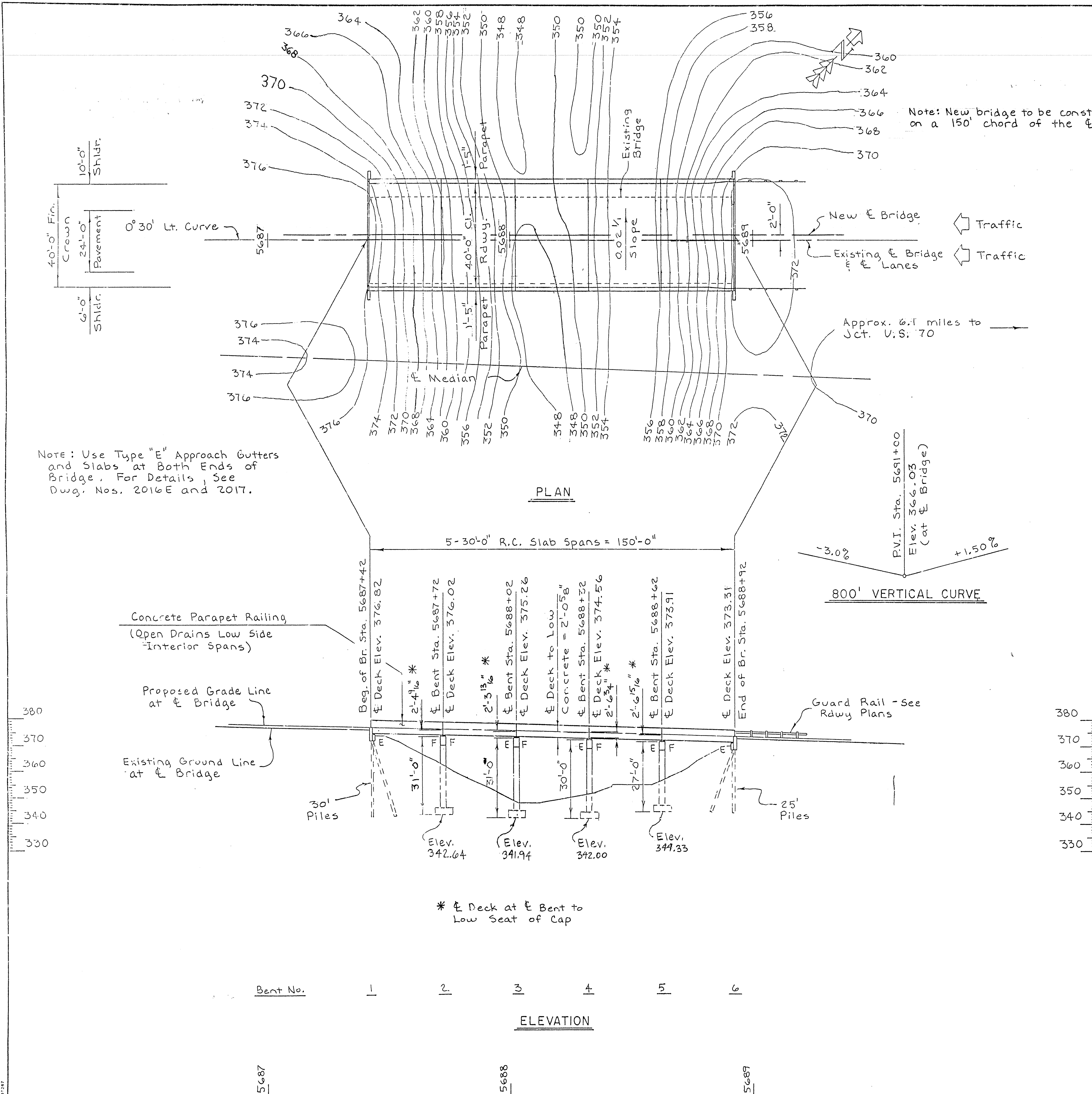
MAINTENANCE OF TRAFFIC: During widening of one bridge, Interstate traffic will be detoured to opposite bridge. See Roadway Plans for detour alignment and grade.

Note: Use Type "E" Approach Gutters and Slabs at Both Ends of Bridge. For Details, See Dwg. Nos. 2016E and 2017.

Note: New bridge to be constructed on a 150' chord of the $\frac{1}{2}$ Lanes.

PLAN

800' VERTICAL CURVE

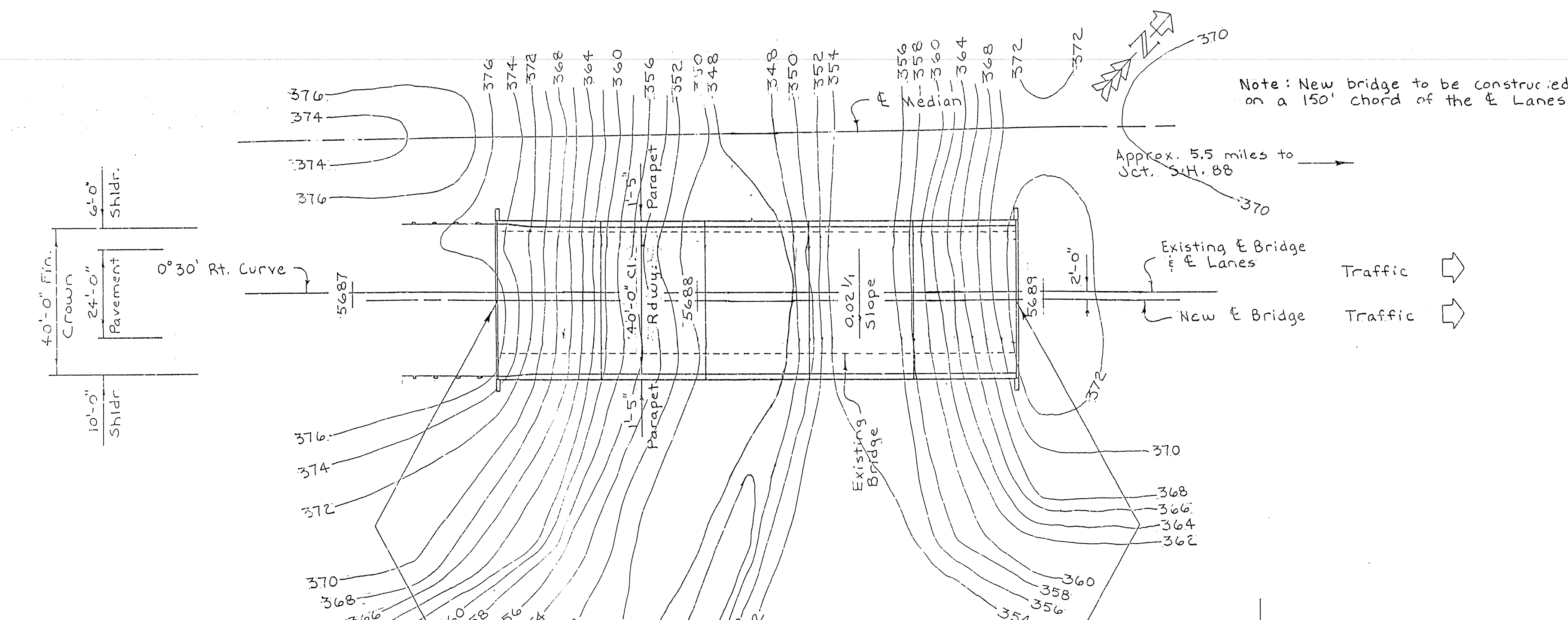


ALTERNATE NO. 1
 LAYOUT OF BRIDGE
 OVER TEN MILE CREEK
 NINE MILE CREEK - HWY. 70 (F)
 HOT SPRING COUNTY
 ROUTE I-30 SEC. 21
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 DRAWN BY: GEC DATE: 11-22-93
 CHECKED BY: CAB DATE: 11-30-93
 DESIGNED BY: GEC DATE: 11-22-93
 SCALE: 1" = 20'-0"
 BRIDGE ENGINEER BRIDGE NO. 3245AR DRAWING NO. 34401

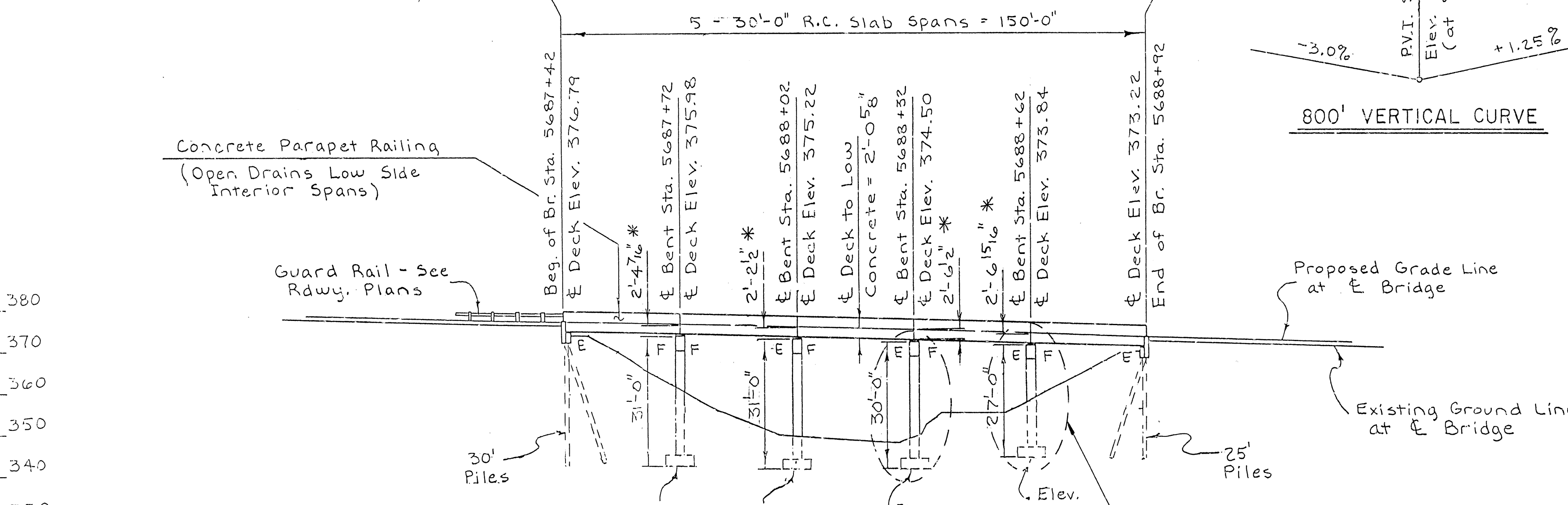
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	F.D. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8-21-96	2-22-96			6	ARK.			
						JOB NO. D60616	73	113
						3245BR LAYOUT	34401A	

Notes: Use Type "E" Approach Gutters and Slabs at Both Ends of Bridge. For Details, See Dwg. Nos. 2016E and 2017.

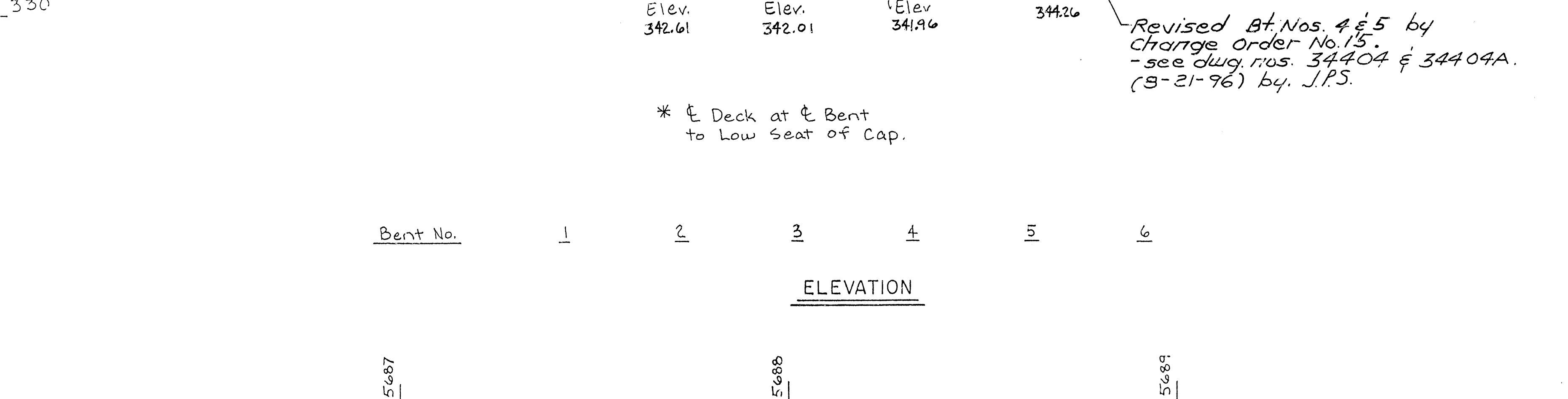
PLAN



800' VERTICAL CURVE



ELEVATION



GENERAL NOTES

BENCH MARK: Chiseled Square 29.849' Lt. of Sta. 5687+42.218, Elev. 377.32.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 1993 edition, with applicable supplemental specifications and special provisions.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 1992 with current interim specifications.

LIVE LOADING: HS20 METHOD OF DESIGN: Load Factor

SEISMIC PERFORMANCE CATEGORY: A

MATERIALS AND STRENGTHS:

- Superstructure Concrete (see span drws.) $f'c = 4,000$ psi
- Substructure Concrete (Class S) $f'c = 3,500$ psi
- Reinforcing Steel (A615 or A617, GR. 60) $f_y = 60,000$ psi

STEEL PILING: Piling in End Bents 1 and 6 shall be HP 10x42 and shall be driven with an approved air, steam, or diesel hammer to a minimum safe bearing capacity of 55 tons per pile. Lengths of piling shown are for estimating quantities and for use in determining payment for cut-off and build-up in accordance with the standard specifications. Piles in end bents to be driven after embankment to bottom of cap is in place.

FOOTINGS: Footings shall be set a minimum of 1'-6" into material designated as hard, blue shale on the boring legend of the existing bridge layout and shall have a minimum cover above top of footings of 2'-0". Foundations for footings shall be prepared in accordance with section 801.04 of the Standard Specifications. Rock excavations shall be made to neat lines of the concrete footings. Care shall be exercised to avoid shattering of rock faces by excessive blasting. Concrete in footings shall be poured directly against excavated surfaces of rock.

BRIDGE DECK: The new concrete bridge deck shall be given a trow finish as specified for final finishing in subsection 802.20 for class 5 Bridge Roadway Surface Finish.

BOILED LINSEED OIL: Boiled linseed oil treatment shall be applied to the new concrete deck and in the face and top of the concrete parapet rail.

DETAIL DRAWINGS:

DRAWING NO.

End Bents 34403

Interior Bents 34404, 34399 & 34404A

30' R.C. Slab Spans 34405, 34405A

Approach Slabs and Gutters 2016E & 2017

EXISTING BRIDGE: The existing Bridge No. 3245B is 28' wide and 150' long. The superstructure consists of 5 - 30'-0" R.C. Sonovoid Slab Spans. The substructure consists of concrete end bents with steel piling and concrete column interior bents with spread footings.

THE WORK CONTEMPLATED CONSISTS OF: Removing the existing slab, curb, and rail; repairing and widening the existing substructure; and constructing a new slab and concrete parapet rail. For requirements in conducting the work, see section 821 of the standard specifications.

Remove existing approach slabs and gutters.

All dimensions relating to the existing bridge are to be verified in the field and the contractor shall be responsible for adjusting widening to the existing structure.

Plans of the existing structure will be made available to the Contractor upon request to the Programs and Contracts Division, Existing dwg. nos. 10223, 5421A, 5421B, 5422E.

All material from the existing bridge shall become the property of the contractor except the guard rail and guard rail posts and spacers which shall remain the property of the state.

MAINTENANCE OF TRAFFIC: During widening of one bridge, Interstate Traffic will be detoured to opposite bridge. See Roadway Plans for detour alignment and grade.



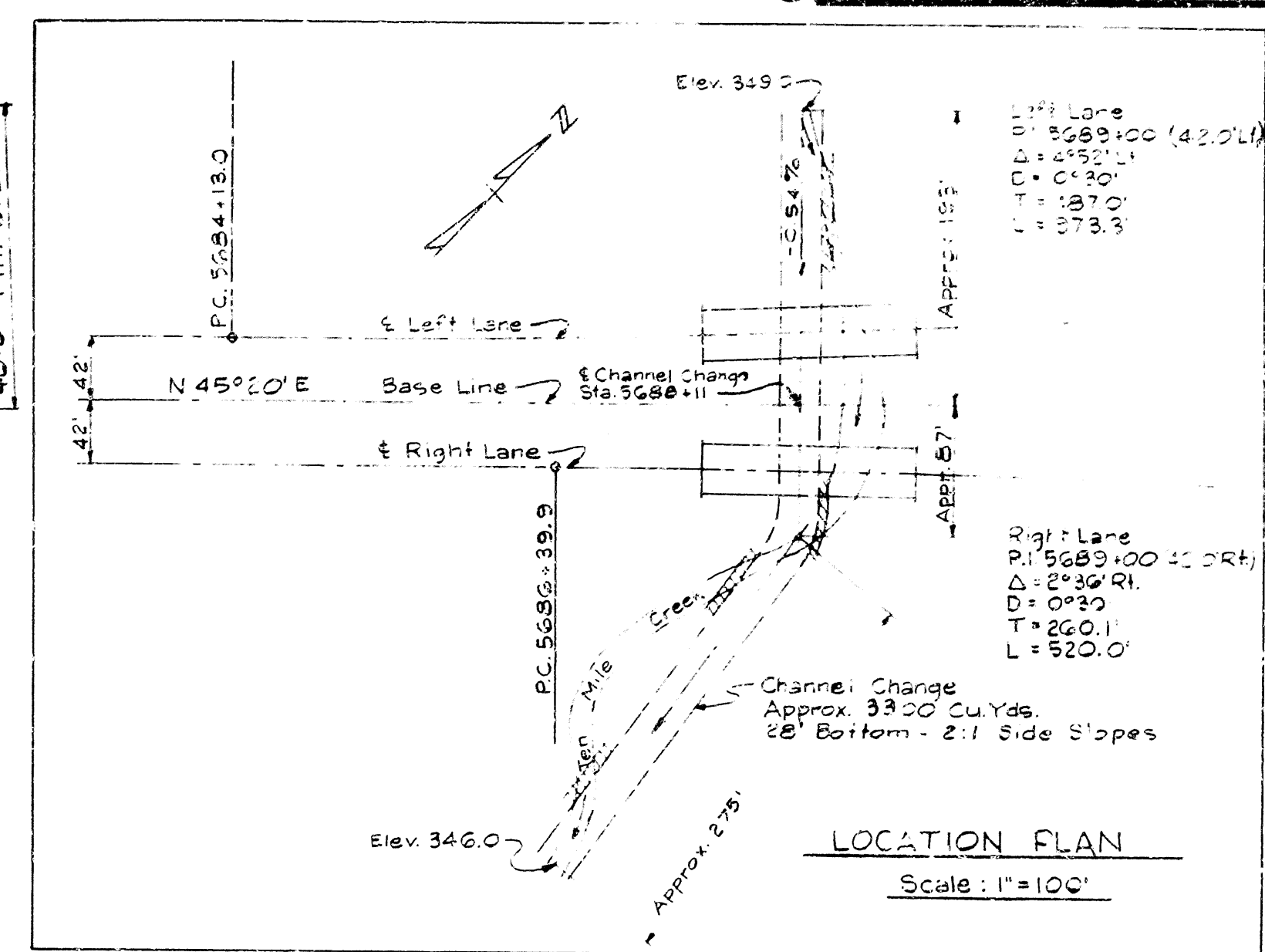
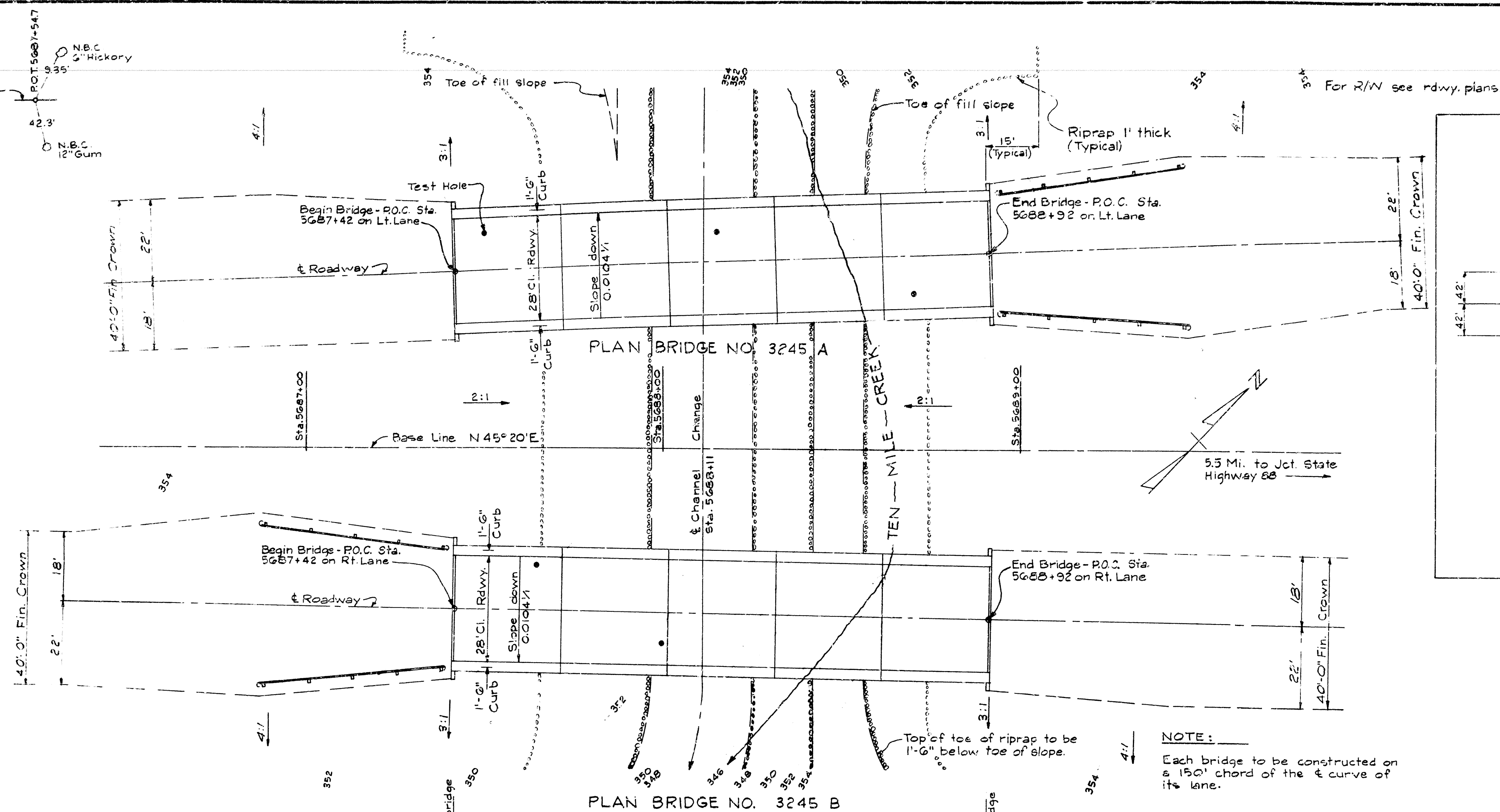
ALTERNATE NO. 1
LAYOUT OF BRIDGE
OVER TEN MILE CREEK
NINE MILE CREEK - HWY. 70 (F)
HOT SPRING COUNTY
ROUTE I-30 SEC. 21
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: GEC DATE: 11-22-93
CHECKED BY: CAG DATE: 11-30-93
DESIGNED BY: GEC DATE: 11-22-93

SCALE: 1" = 20'-0"

BRIDGE NO. 3245BR DRAWING NO. 34401A

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.	060616		74	113
				3245A-B	LAYOUT		34402	



GENERAL NOTES

B.M. Nail in side 18" Gum & Sta. 5685+33. Elev. 352.29'

All piling shall be 12 BP53* steel bearing piles, driven to refusal or to a minimum depth of two feet into the material designated as hard blue shale on the boring logs with a minimum bearing capacity of 35 tons per pile.

Lengths of piling shown are assumed for estimating quantities only. Actual lengths to be determined in the field. Order lengths shown cut-off or build-up, if necessary, to be paid for in accordance with Section 804 of the Specifications. All piling to be driven after embankment is in place.

For details of superstructure see Drawing No. 5421B.

For details of substructure see Drawing No. 5421A & 5422A.

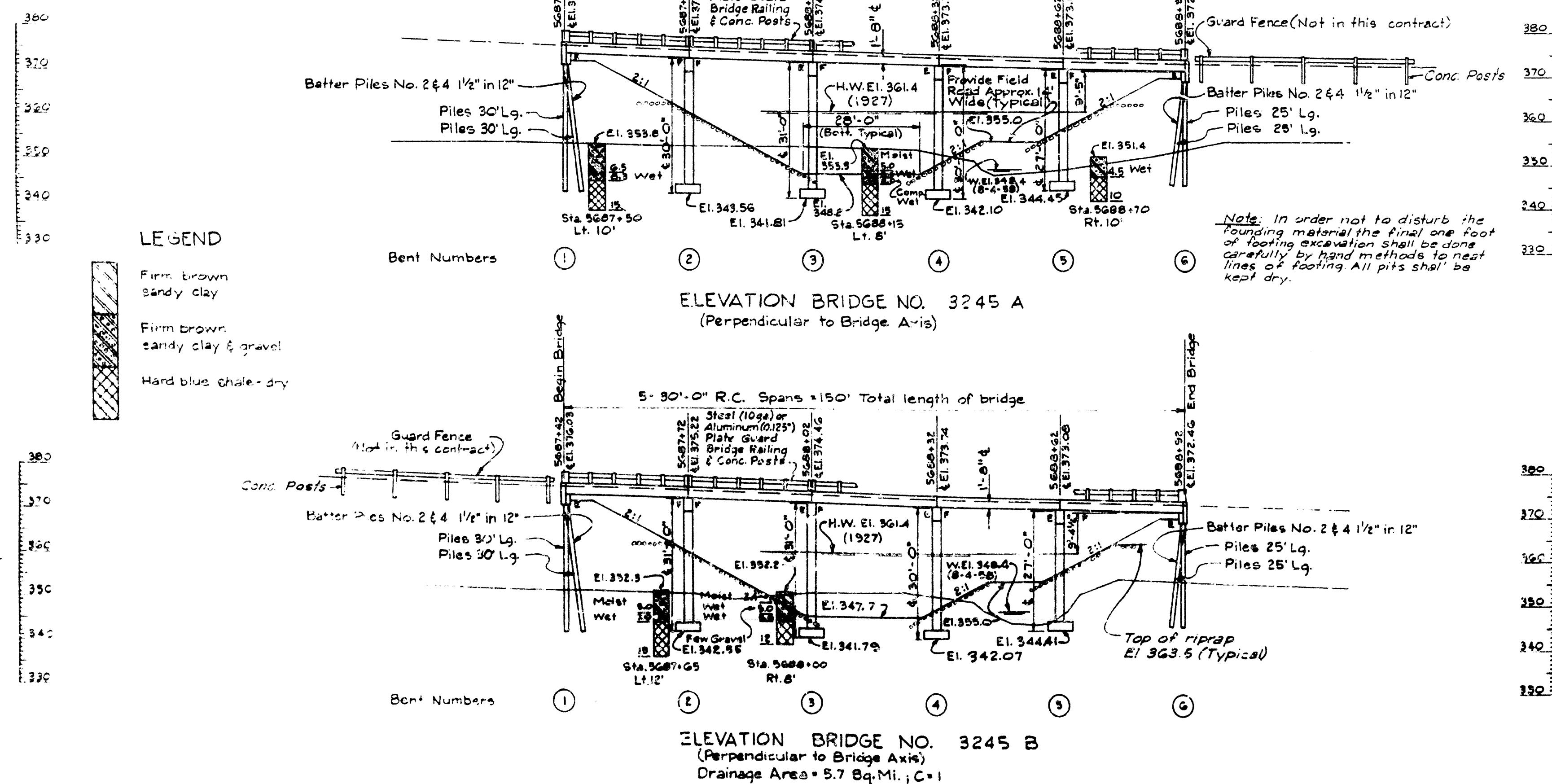
Specifications: Arkansas State Highway Commission Standard Specifications for Highway Construction, adopted December 8, 1972.

Loading - H-20-S16 AASHTO 1957 and Special Interstate Loading of 2-24,000* Axles, 4' on centers.

Stresses -

Class A Concrete (n=10)	3400 psi
Class S Concrete (n=10)	1800 psi
Reinforcing Steel	20,000 psi

Foundation Pressure: 3700 p.s.f. 24' x 24' Centers



ALT. NO. 182 FOR INFORMATION ONLY

LAYOUT OF BRIDGES
OVER TEN MILE CREEK
NINE MILE CREEK - HWY. 70 INTERCHANGE
SALINE COUNTY
INT. ROUTE 30 SEC. 21

ARKANSAS STATE HIGHWAY COMMISSION

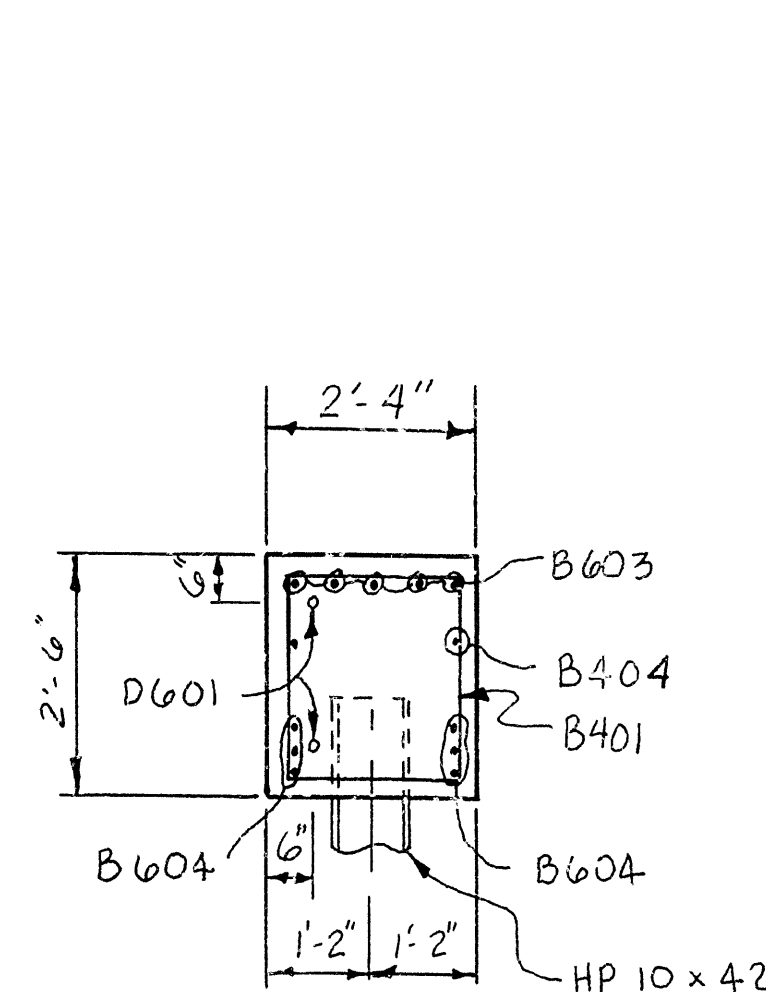
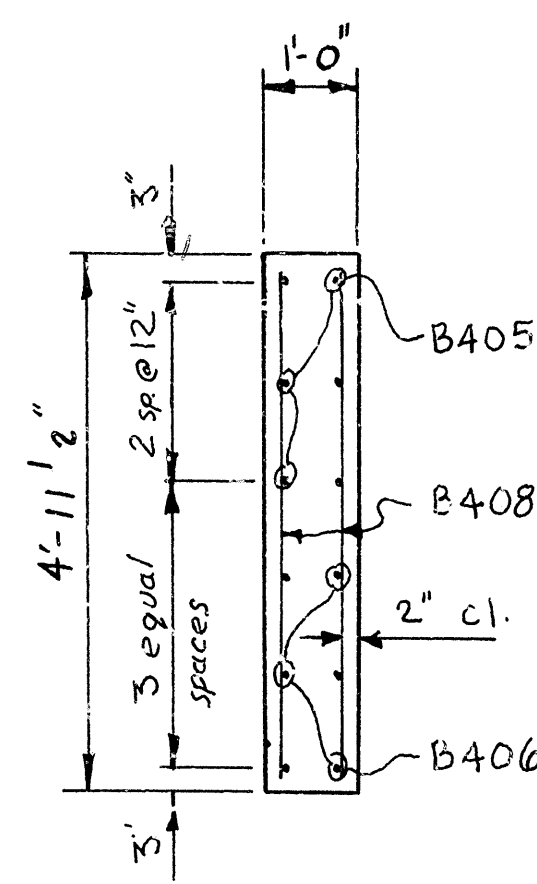
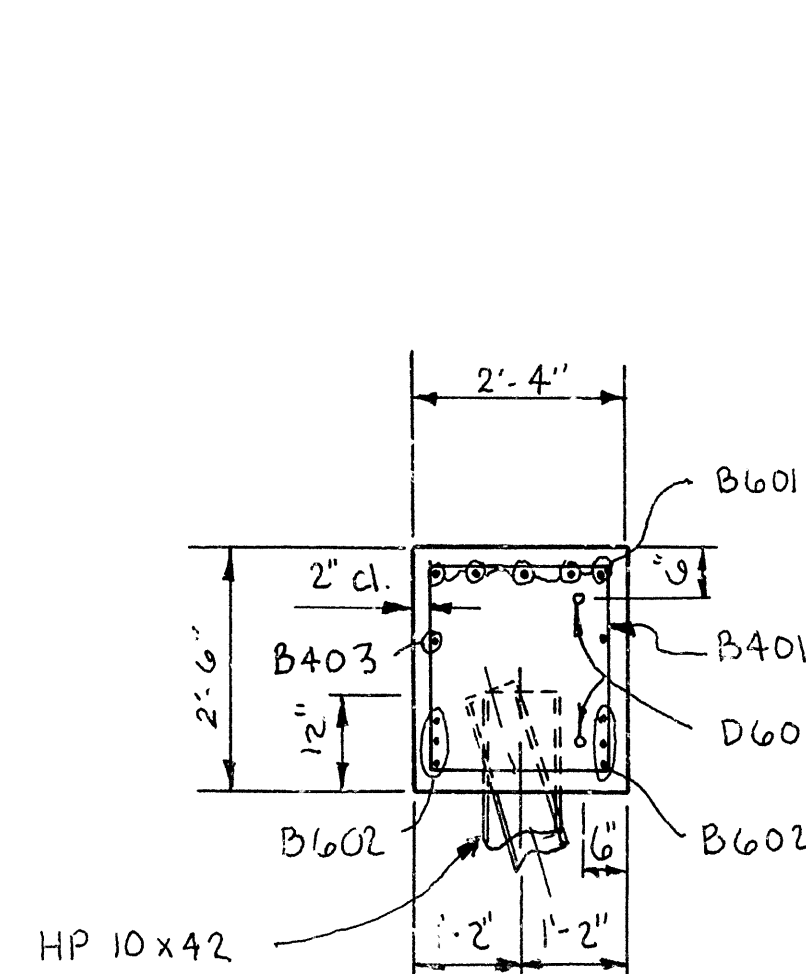
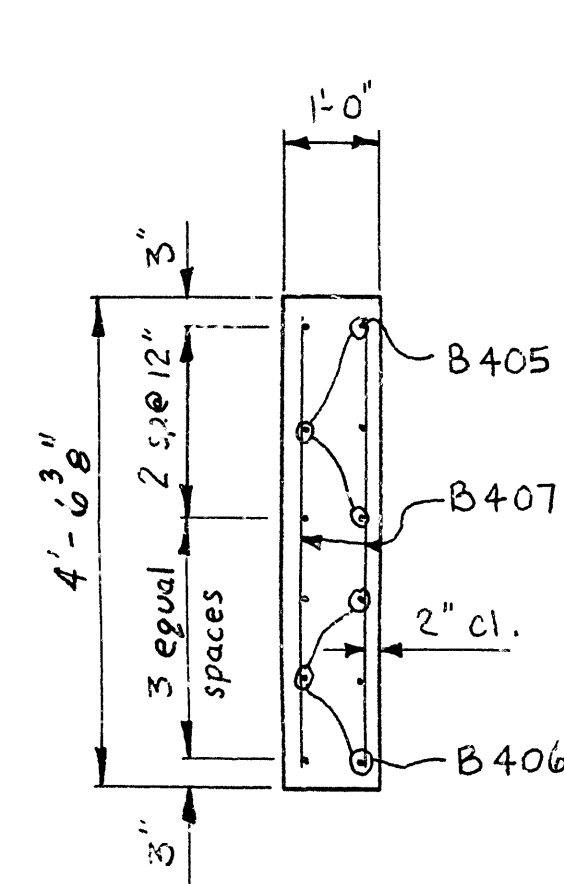
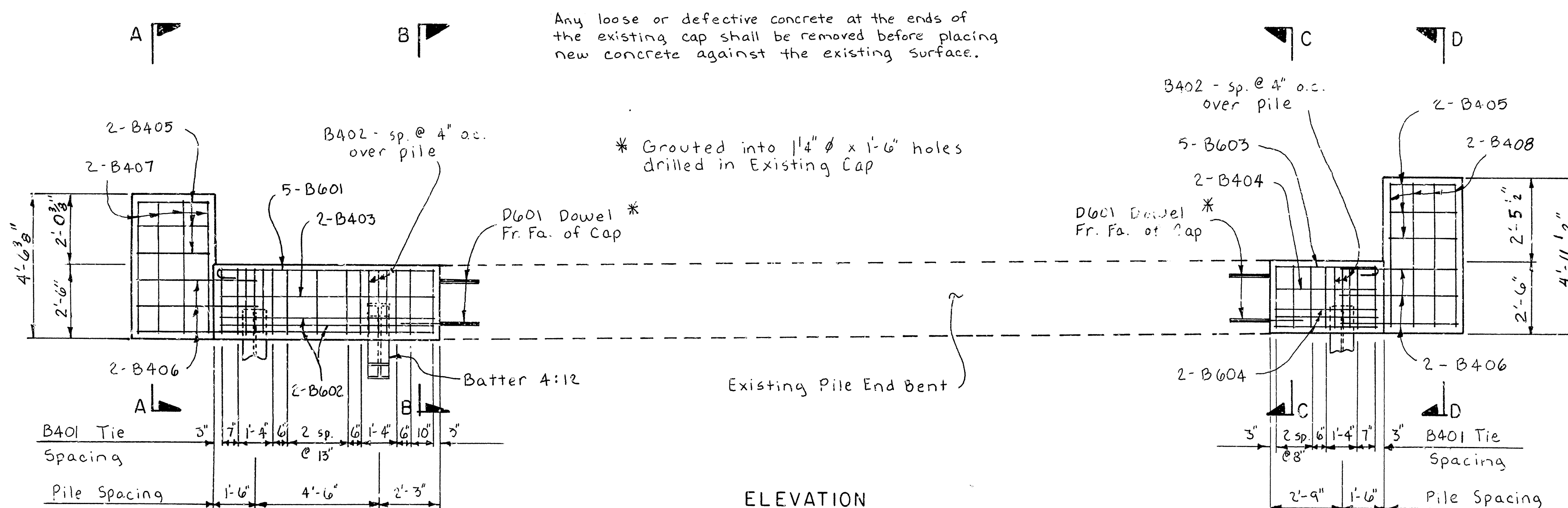
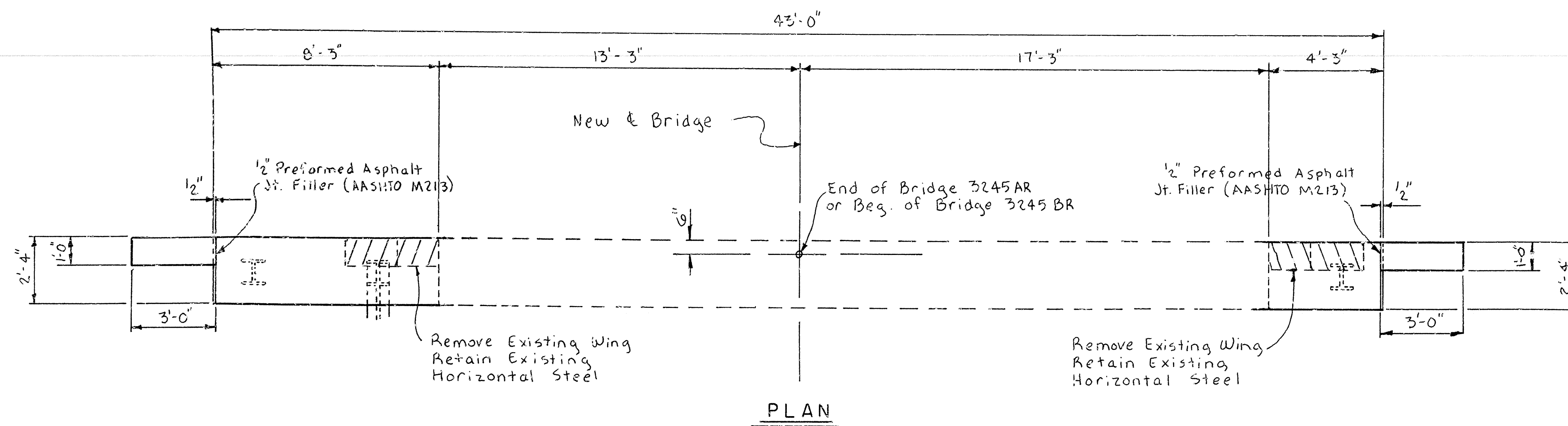
LITTLE ROCK, ARK.

DRAWN BY: R.L.C. DATE: 9-5-59
CHECKED BY: DATE: 5-5-60
SCALE: 1"=20'

BRIDGE NO. 3245-A & 3245-B DRAWING NO. 34402

Revised 4-21-60 - Guard Fence - R.L.C.

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.	060616	75	113	
				3245 AR BR END BENTS 34403				



BAR LIST - PER BENT

MARK	NO. REQD.	LENGTH	A	B	PIN DIA.	BENDING DIAGRAMS
B401	16	8'-8"	2'-0"	2'-2"	2"	
B402	9	6'-2"	2'-0"	2'-2"	2"	
B403	2	8'-0"			Str.	
B404	2	4'-0"			Str.	
B405	12	2'-8"			Str.	
B406	12	4'-6"			Str.	
B407	8	4'-2"			Str.	
B408	8	4'-7"			Str.	
B601	5	8'-8"	8'-0"	6"	4 1/2"	
B602	6	8'-0"			Str.	
B603	5	4'-8"	4'-0"	6"	4 1/2"	
B604	6	4'-0"			Str.	
D601	4	3'-0"			Str.	

Dimensions are out to out of bars.

GENERAL NOTES

All Concrete shall be Class "S" with a minimum 28 day compressive strength $f'_c = 3500$ psi. and shall be poured in the dry. All exposed corners to be chamfered 3/4" unless otherwise noted.

All Reinforcing Steel shall conform to ASTM A615 or A617, Grade 60 (yield strength = 60,000 psi).

All piling shall be driven to a minimum bearing capacity of 55 tons per pile.

For additional information, see Layout.



ALTERNATE NO. 1
DETAILS OF WIDENING
END BENTS
TEN MILE CREEK
HOT SPRING COUNTY
ROUTE 1-30 SEC. 21
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CAB DATE: 1-13-94
CHECKED BY: GEC DATE: 1-31-94
DESIGNED BY: GEC DATE: 3-25-93

3/8" = 1'-0" or as noted

BRIDGE NO. 3245 AR BR DRAWING NO. 34403

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8-21-96	8-23-96			6	ARK.			
				JOB NO.	060616		76	113
				3245 AR 18R BENT DETAILS 34404				

BAR LIST - PER BENT

MARK	NO.	REQD.	LENGTH	A	B	PIN DIA.	BENDING DIAGRAMS
B401	11	9'-6"	1'-11"	2'-8"	2"		
B402	6	7'-1"	1'-11"	2'-8"	2"		
B403	6	8'-0"			Str.		
B404	6	4'-0"			Str.		
B601	5	8'-8"	3'-0"	6"	4'-2"		
B602	4	8'-0"			Str.		
B603	5	4'-8"	4'-0"	6"	4'-2"		
B604	4	4'-0"			Str.		
C401	"H"	7'-8"	1'-10"	1'-10"	2"		
C901	8	"J"			Str.		
C902	8	"K"			Str.		
S401	15	6'-8"	1'-7"	1'-7"	2"		
S402	2	10'-1"			Str.		
S403	2	7'-1"			Str.		
S601	6	10'-1"			Str.		
S602	6	7'-1"			Str.		
F601	44	5'-6"			Str.		
F901	16	9'-1"	7'-9"	1'-7 1/4"	9"		
D401	"L"	2'-6"			Str.		
D601	20	3'-0"			Str.		

GENERAL NOTES

All Concrete shall be Class "S" with a minimum 28 day compressive strength $f'_c = 3500$ psi. and shall be poured in the dry. All exposed corners to be chamfered 3/4" unless otherwise noted.

All Reinforcing Steel shall conform to ASTM A615 or A617, Grade 60 (yield strength = 60,000 psi.)

For additional information, see layout.

ALTERNATE NO. 1 DETAILS OF WIDENING BENT NOS. 2 THRU 5 TEN MILE CREEK HOT SPRING COUNTY

ROUTE 1-30 SEC. 21

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: CAB DATE: 1-20-94
CHECKED BY: GEC DATE: 1-31-94
DESIGNED BY: GEC DATE: 3-25-93

BRIDGE NO. 3245AR & BR DRAWING NO. 34404



Revised Bt Nos. 4 & 5 by
Change Order No. 15
(8-21-96) by J.P.S.

see Dwg. No. 34404A

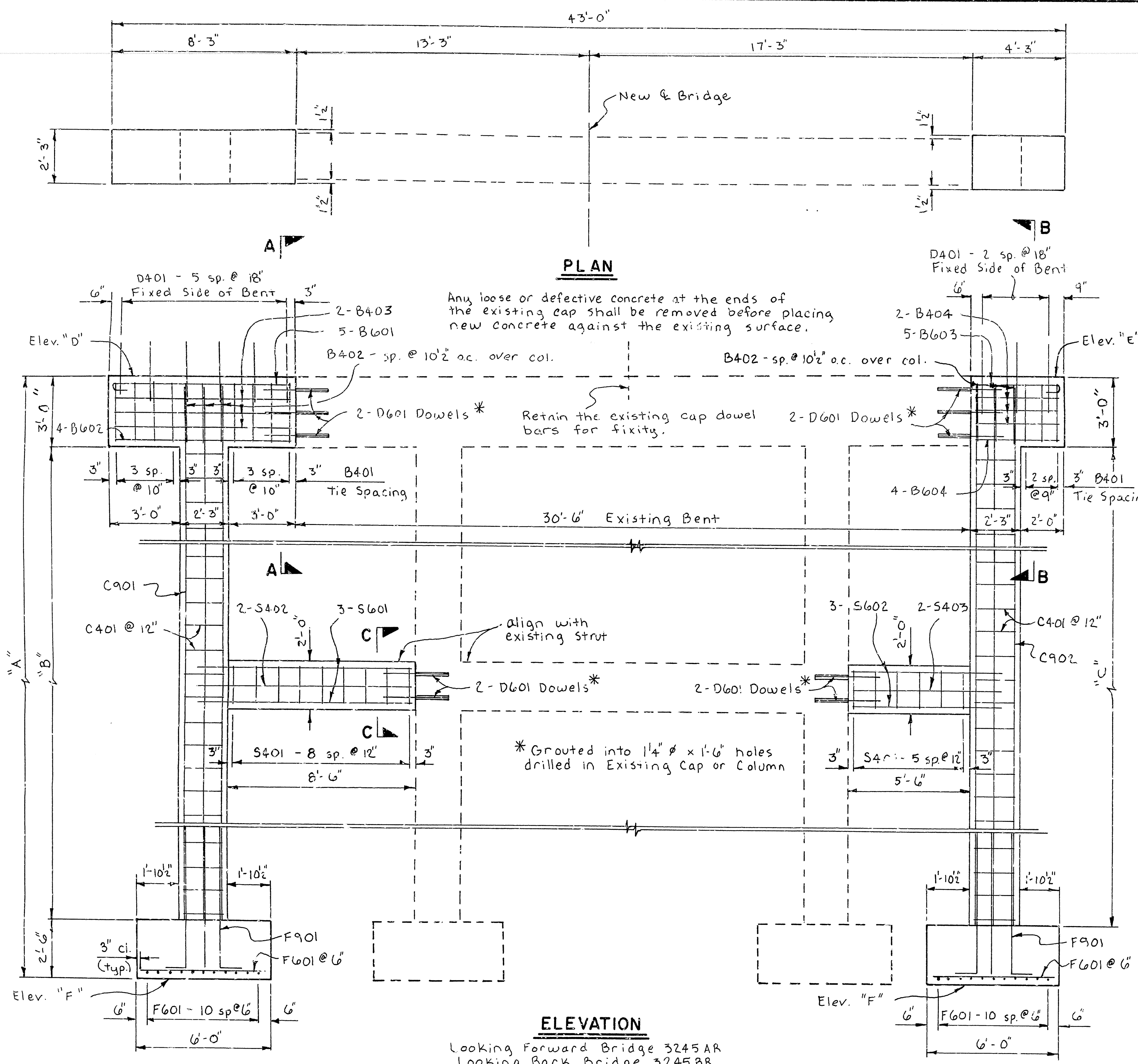


TABLE OF VARIABLES

BR. NO.	BENT NO.	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"	"L"
3245 AR	2	31'-0"	25'-6"	25'-9 3/4"	373.64	373.92	342.64	27	56	28'-0"	28'-3"	18
	3	31'-0"	25'-6"	25'-8 3/4"	372.94	373.18	341.94	27	56	28'-0"	28'-3"	9
	4	30'-0"	24'-6"	24'-10 3/4"	372.00	372.35	341.00	26	54	27'-0"	27'-4"	9
	5	27'-0"	21'-6"	21'-11 1/4"	371.33	371.75	344.33	23	48	24'-0"	24'-5"	9
3245 BR	2	31'-0"	25'-6"	25'-8 3/4"	373.61	373.84	342.61	27	56	28'-0"	28'-3"	18
	3	31'-0"	25'-6"	25'-8 3/4"	373.01	373.09	342.01	27	56	28'-0"	28'-1"	9
	4	30'-0"	24'-6"	24'-11 1/4"	371.96	372.40	341.96	26	54	27'-0"	27'-5"	9
	5	27'-0"	21'-6"	22'-0"	371.26	371.76	344.26	23	48	24'-0"	24'-6"	9

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.		06061G	77	113
						3245AR&BR	SPAN DTLS.	34405

BAR LIST (PER SPAN)

MARK	NUMBER REQUIRED		LENGTH	P.D.	BENDING DIAGRAMS
	*	**			
S401E	29	29	29'-8"	Str.	<p>All Bars designated with an "E" suffix are to be Epoxy Coated.</p> <p>42'-6"</p> <p>5"</p> <p>S501E</p> <p>5"</p> <p>2'-11"</p> <p>4 1/2"</p> <p>S403E</p> <p>1'-6"</p> <p>1'-6"</p> <p>7 1/4"</p> <p>S404</p> <p>S405</p>
S402	40	40	22'-1"	Str.	
S403E	4	8	3'-5"	3"	
S404	39	▲ 39	4'-4"	2"	
S405	39	▲▲ 76	3'-5"	2"	
S501E	24	24	43'-8"	3 3/4"	
S502	4	4	42'-6"	Str.	
S801	74	74	29'-8"	Str.	
S901	6	6	29'-8"	Str.	
P401E	8		7'-8"	2"	
P402E	15		3'-9"	2"	
P403E	8		7'-8"	2"	
P404E	32	30	9'-8"	Str.	
P405E	46	69	6'-4"	2"	
P406E	46	69	7'-3"	2"	
P407E	10	15	5'-10"	2"	
P408E	10	15	3'-2"	2"	
P601E	14		8'-2"	4 1/2"	
P602E	6		5'-0"	Str.	
P603E	10	15	9'-8"	Str.	

Dimensions are out to out of bars.

For Bending Diagrams of parapet bars, see drwg. no. 34405A

* Span 1 - Br. B & Span 5 - Br. A
 ** Spans 2-5 Br. B & Spans 1-4 Br. A
 ▲ Span 5 Br. B & Span 1 Br. A only
 ▲▲ Only 39 required for Span 5 Br. B & Span 1 Br. A

General Notes

All concrete to be Class S(AE). Exposed corners to be chamfered 3/4" unless otherwise noted.

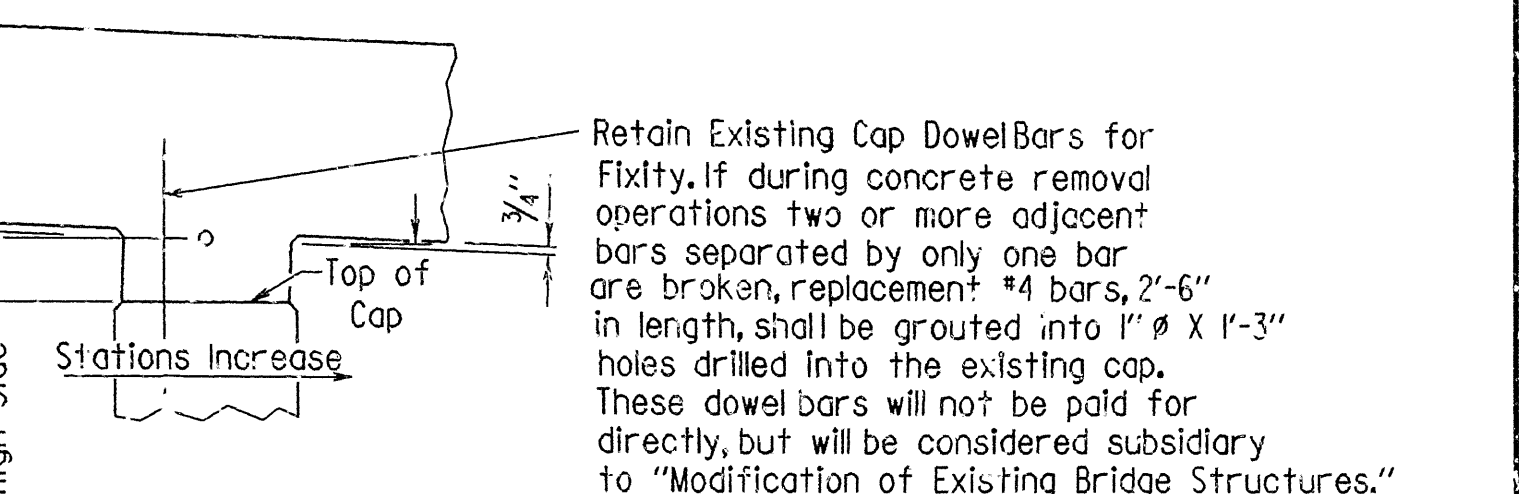
Bar supports for reinforcing steel will not be paid for directly, but will be considered subsidiary to the item "Reinforcing Steel".

Neoprene or Nylon Reinforced Neoprene Pad, Preformed Joint Filler, Structural Steel, and Type 6 Poured Synthetic Polymer Joints shall be measured and paid for as "Class S(AE) Concrete".

Design Live Load: HS 20-44

Load Distribution to Slab:
 Dead Load: 283 psf (includes 22 psf future wearing surface)
 Live Load: 0.174 wheels/ft. of width plus 30% Impact

For additional information, see Layout.

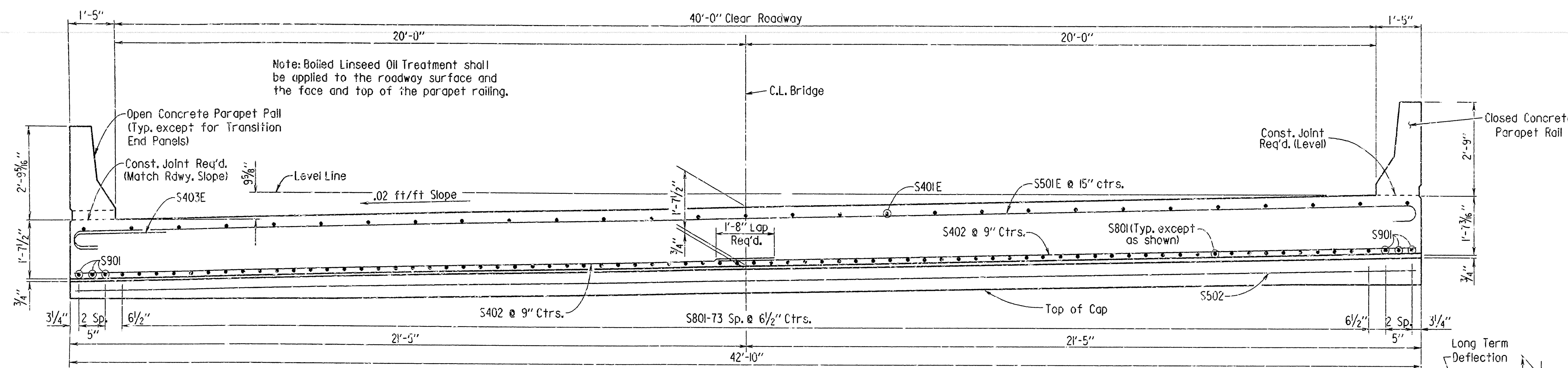


RISER DETAIL
 (INT. BENT)
 No Scale

ALT. NO. 1
 (SHEET 1 OF 2)
 DETAILS OF
 30'-0" R.C. SLAB SPANS
 TEN MILE CREEK
 HOT SPRING COUNTY
 ROUTE 1-30 SEC. 21
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

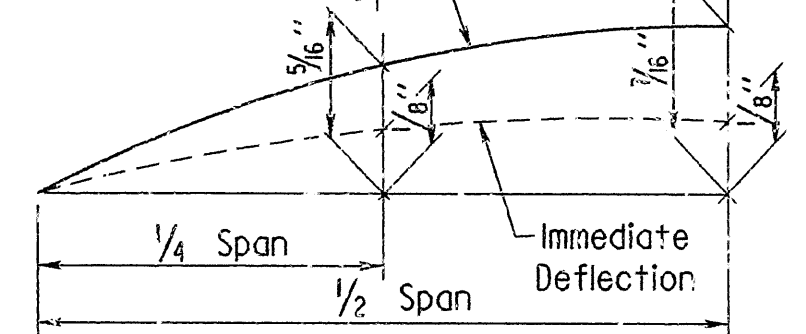
DRAWN BY: MJT DATE: 6-15-93
 CHECKED BY: GEC DATE: 1-24-94
 DESIGNED BY: GEC DATE: 3-25-93

BRIDGE NO. 3245AR&3245BR DRAWING NO. 34405

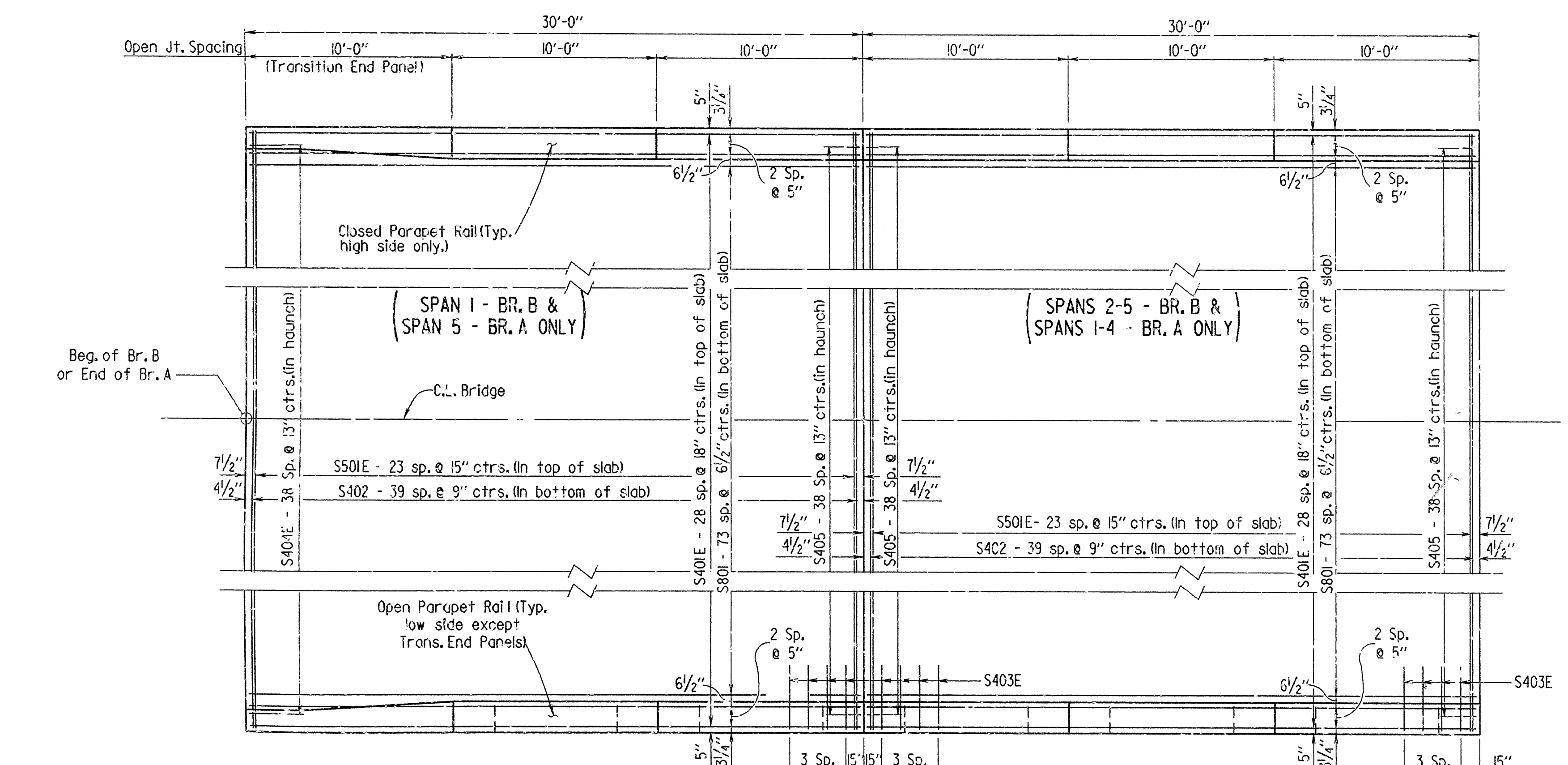


TYPICAL SECTION THRU ROADWAY
 Scale: 1/2" = 1'-0"

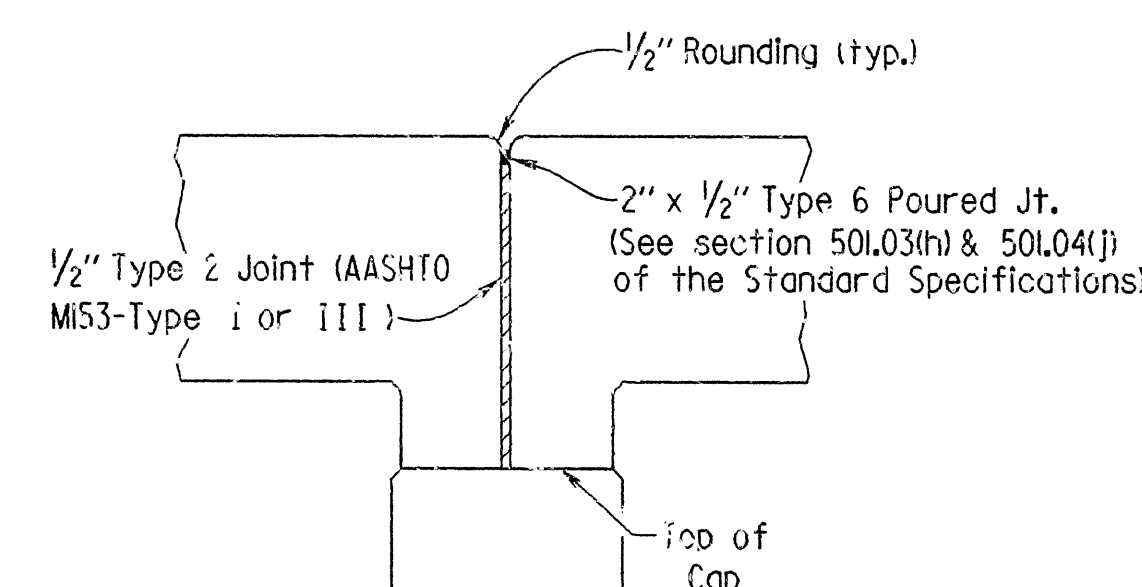
Note: For details of concrete parapet rail, see drwg. no. 34405A



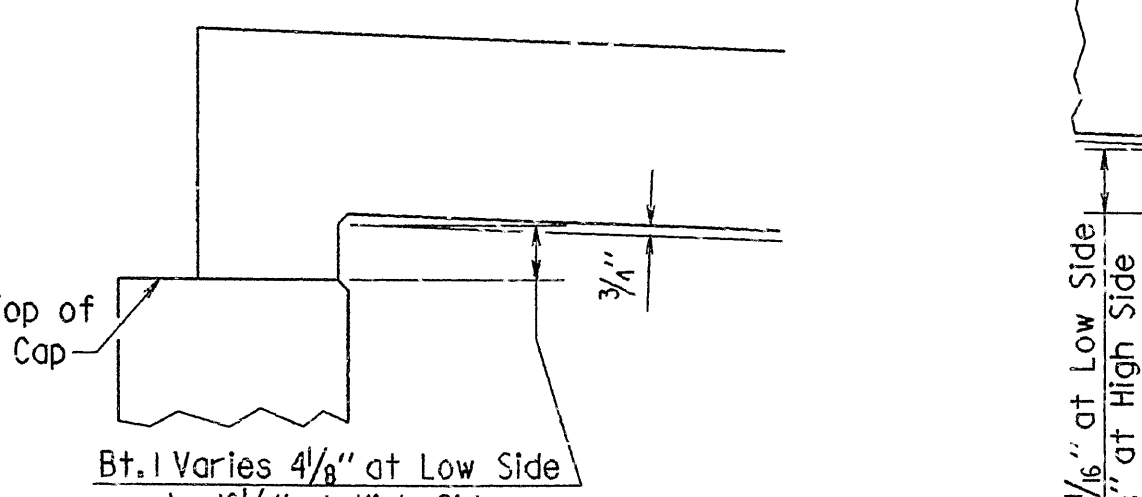
DEAD LOAD CAMBER DIAGRAM
 No Scale
 Note: Vertical curve corrections not included.



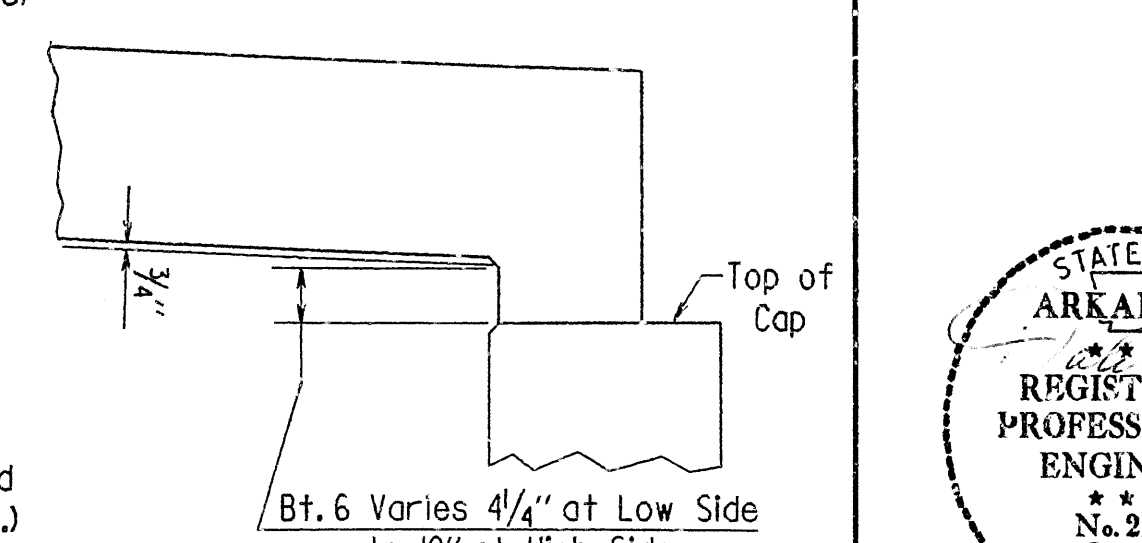
REINFORCING PLAN
 Scale: 1/4" = 1'-0"



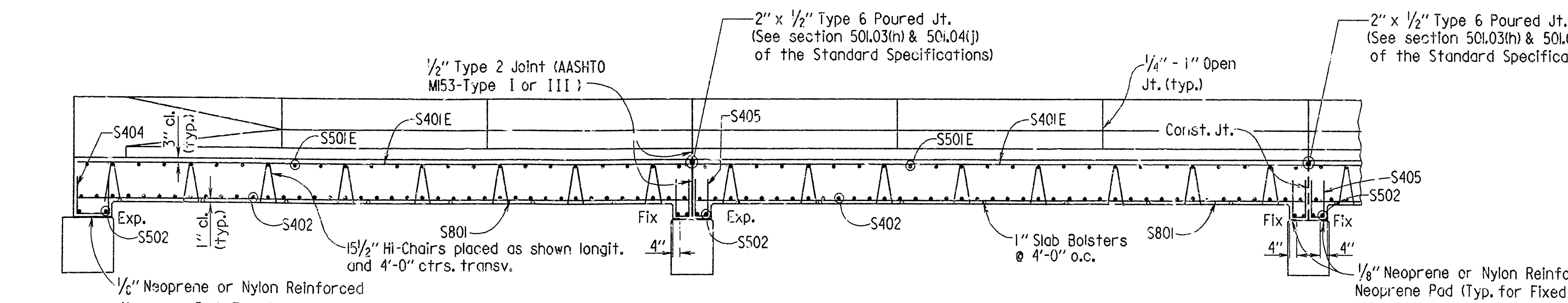
TYPICAL SECTION THRU JOINT
 No Scale



RISER DETAIL (END BENT)
 No Scale

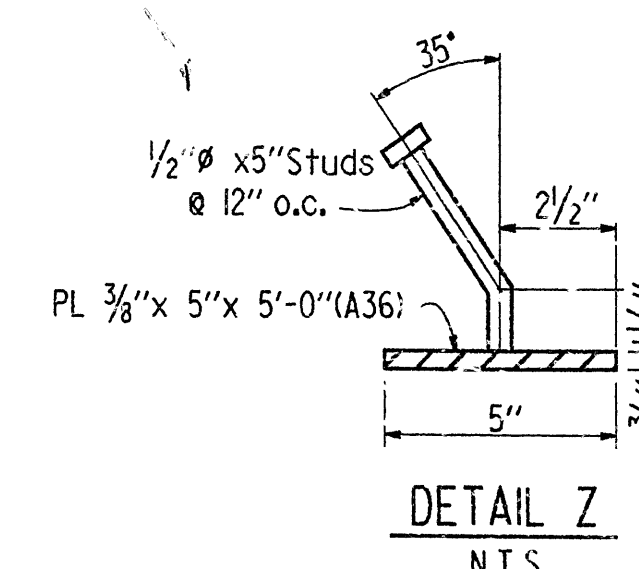
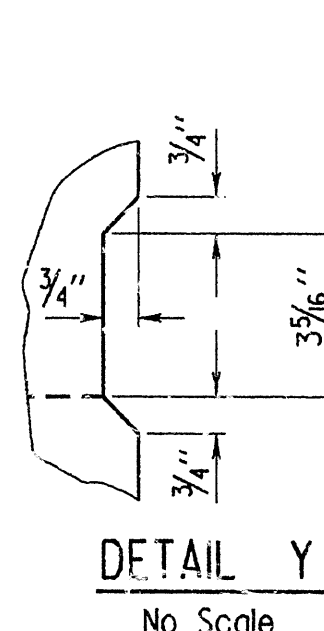
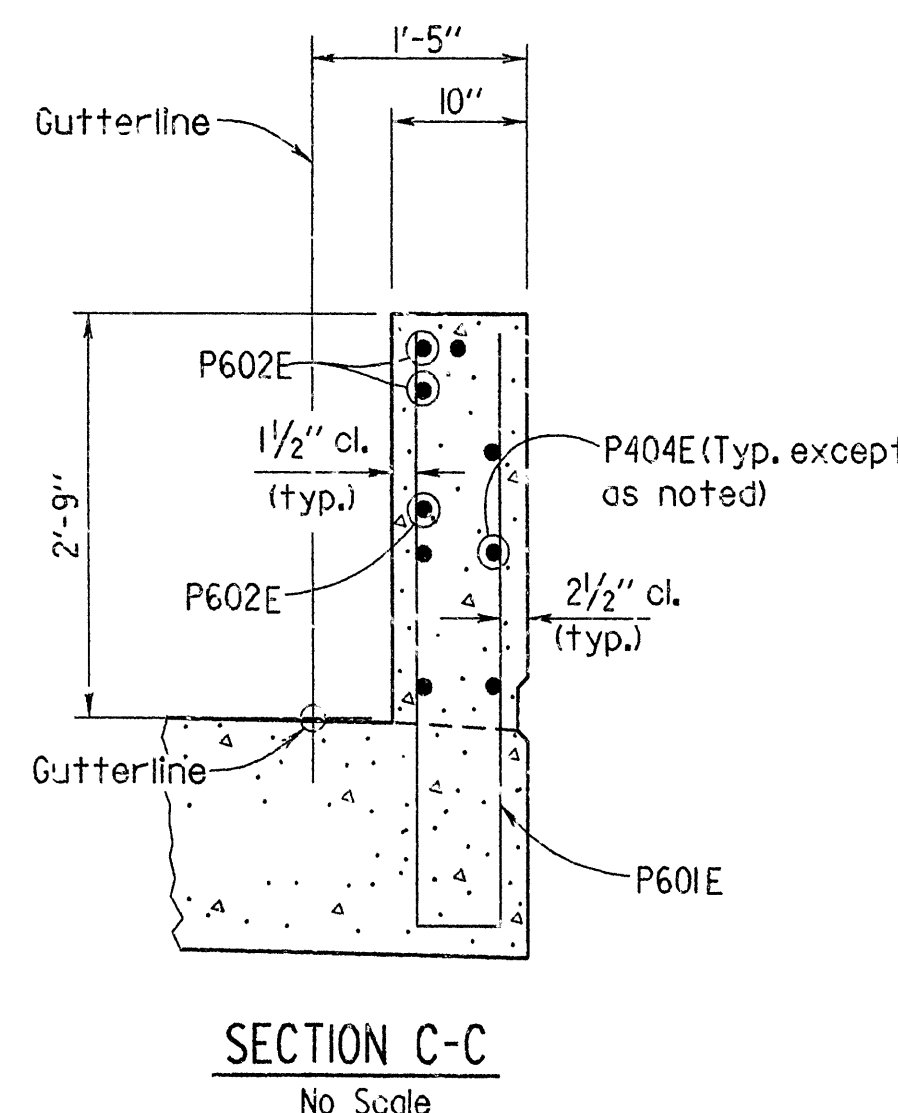
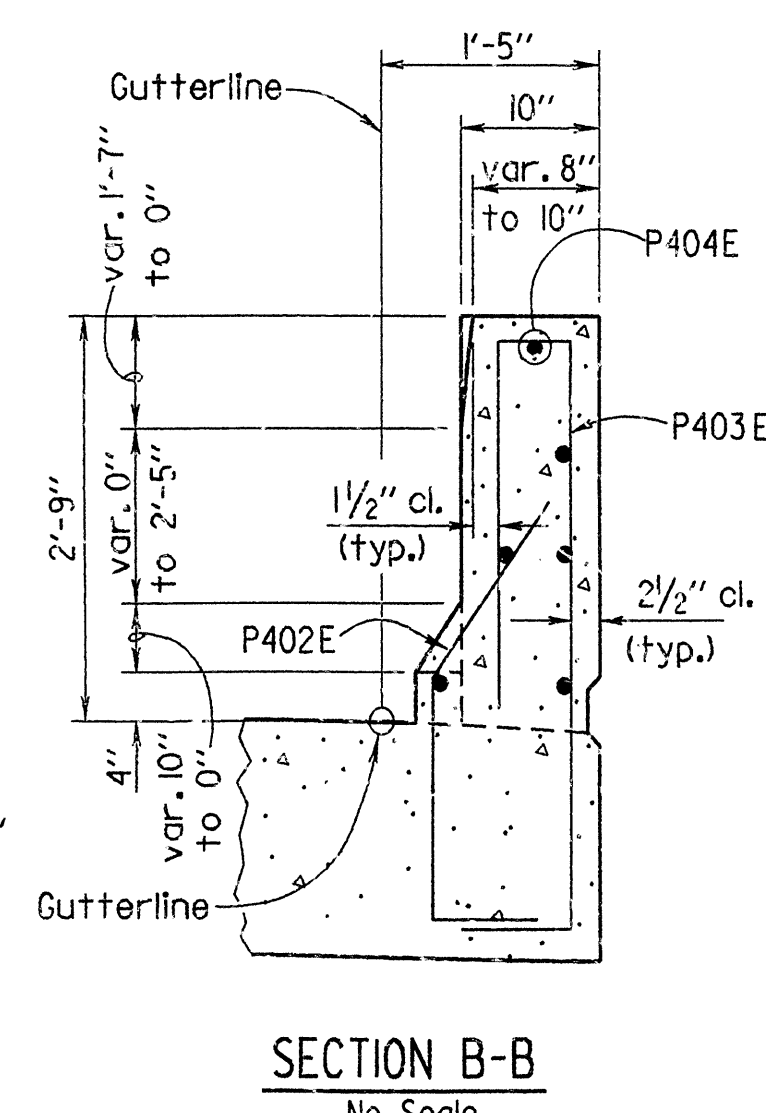
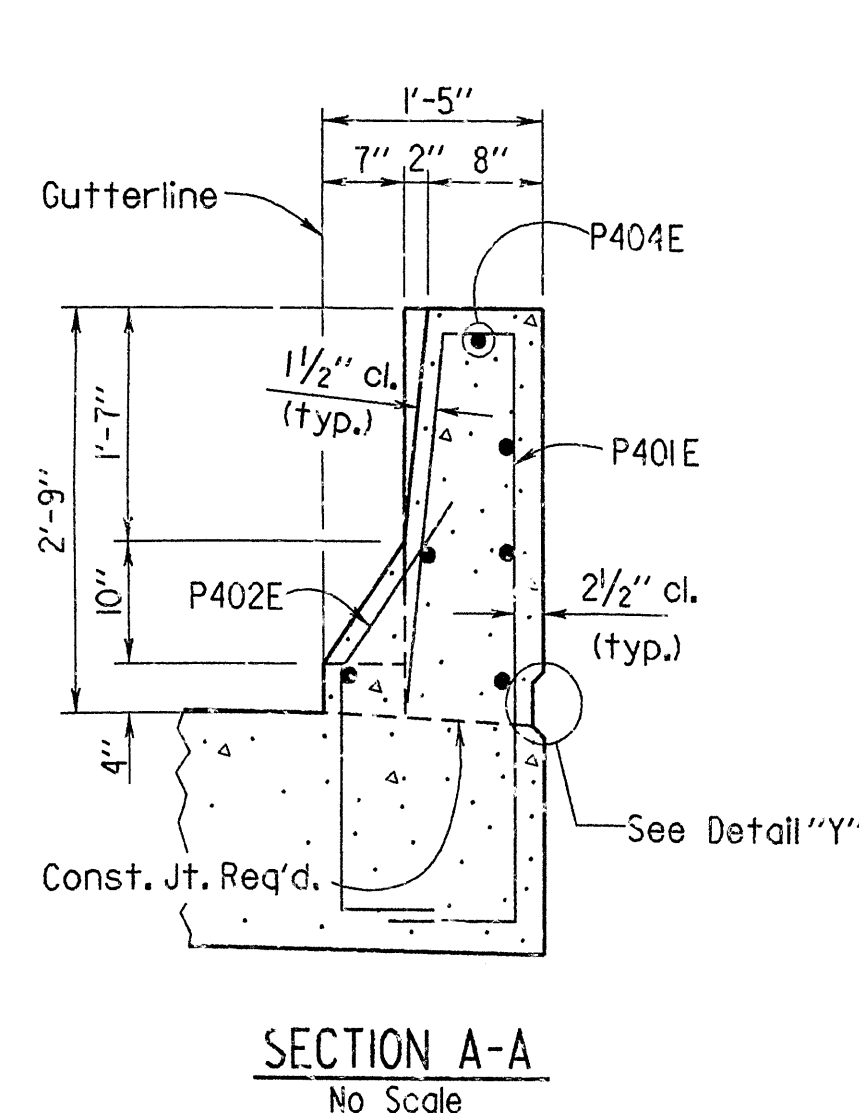
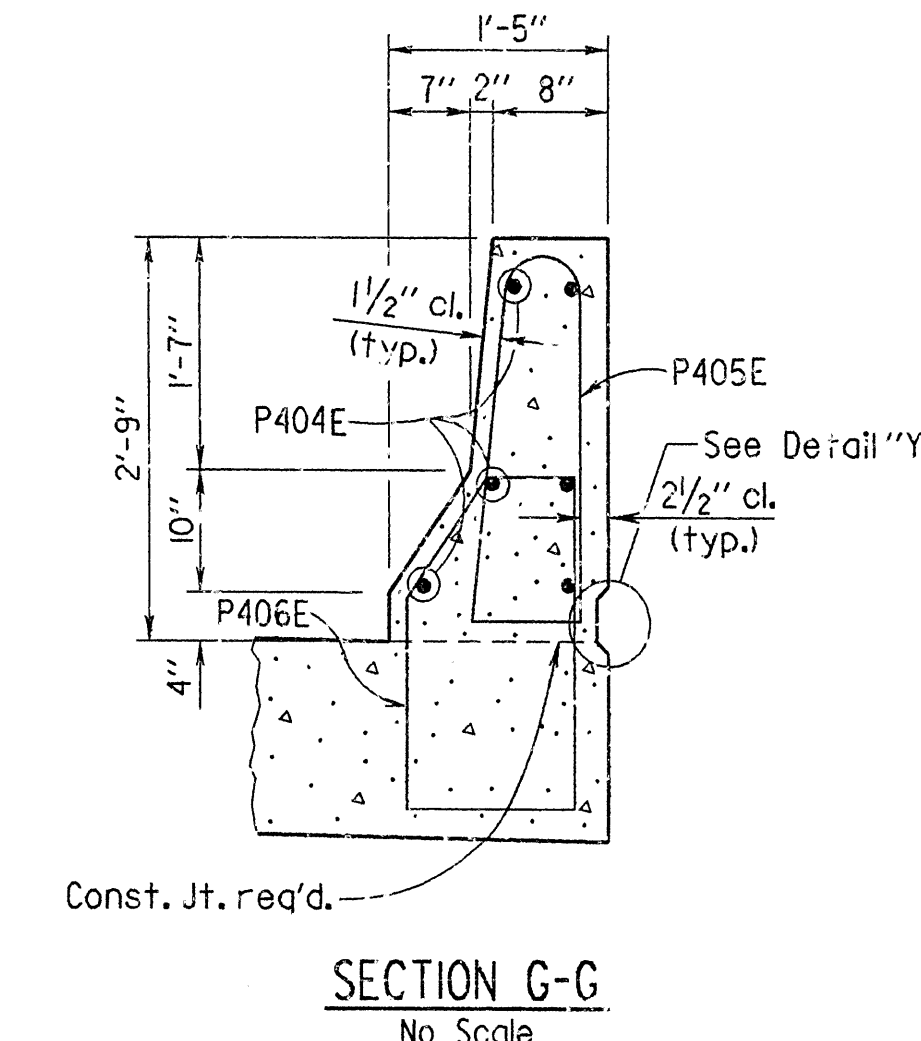
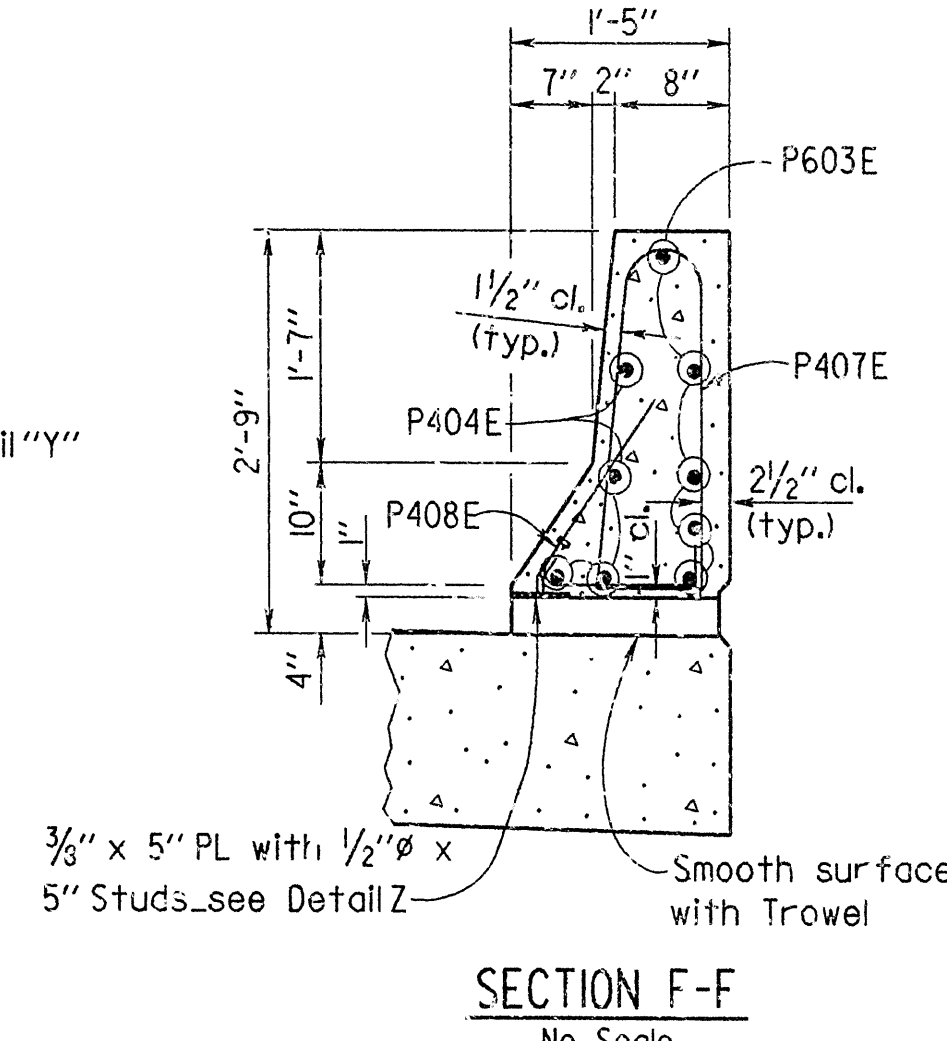
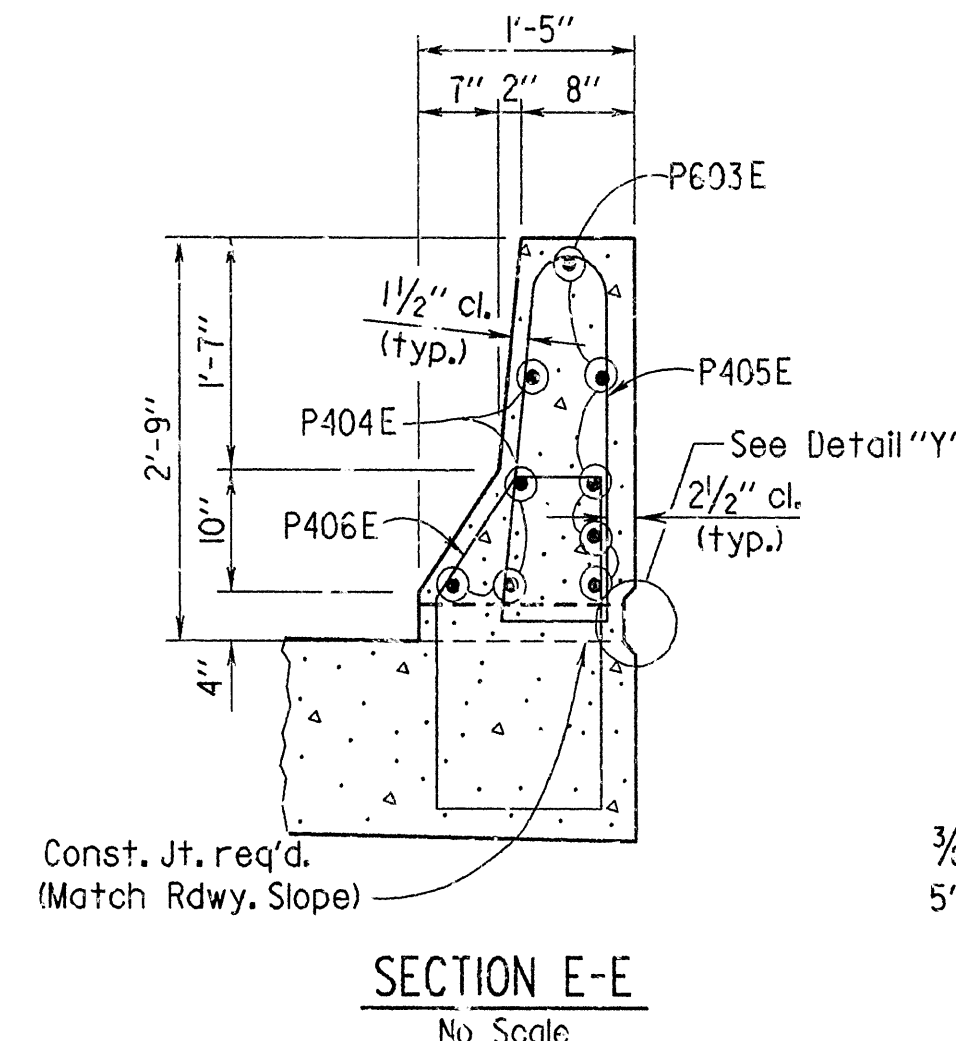
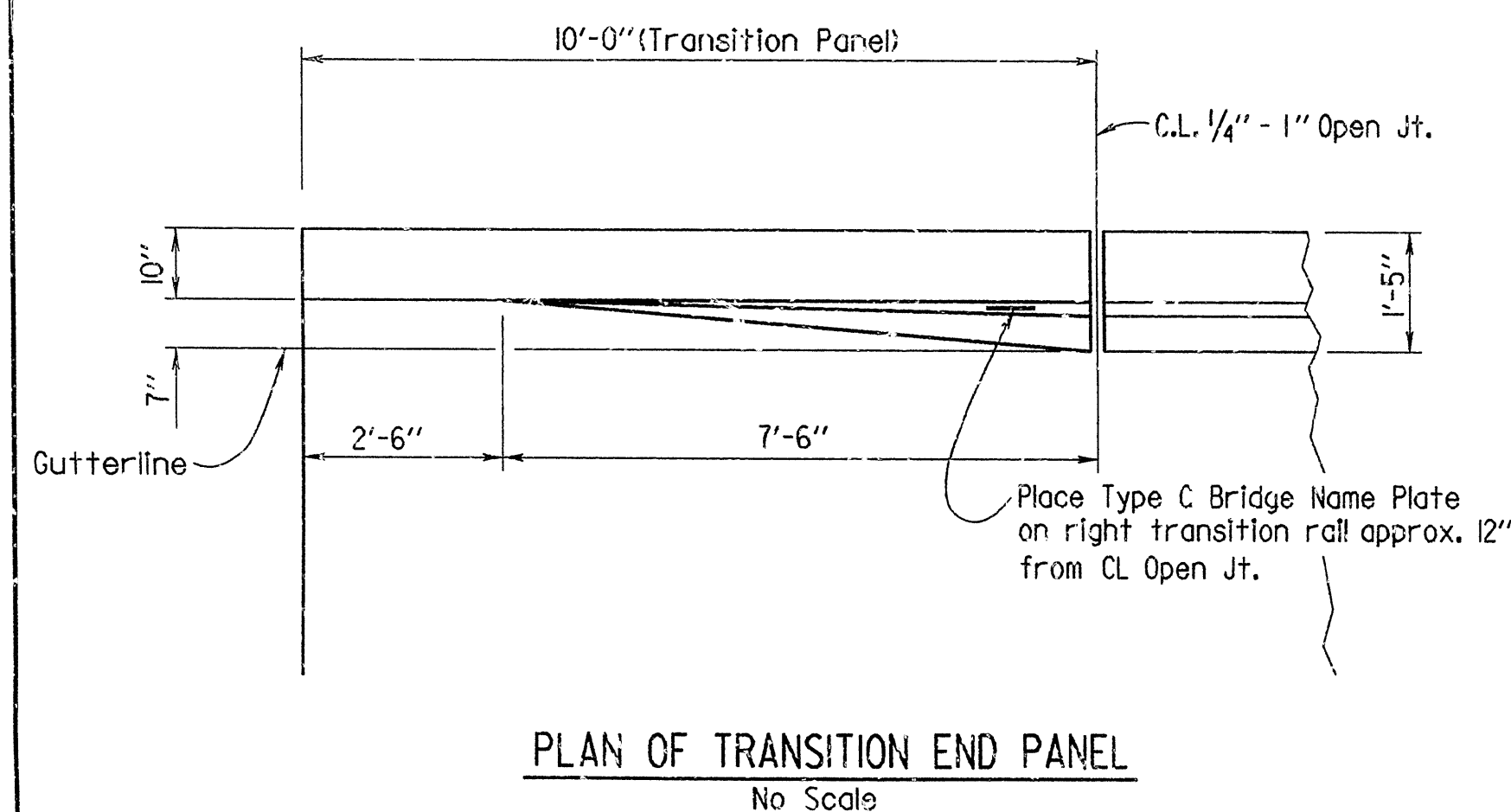
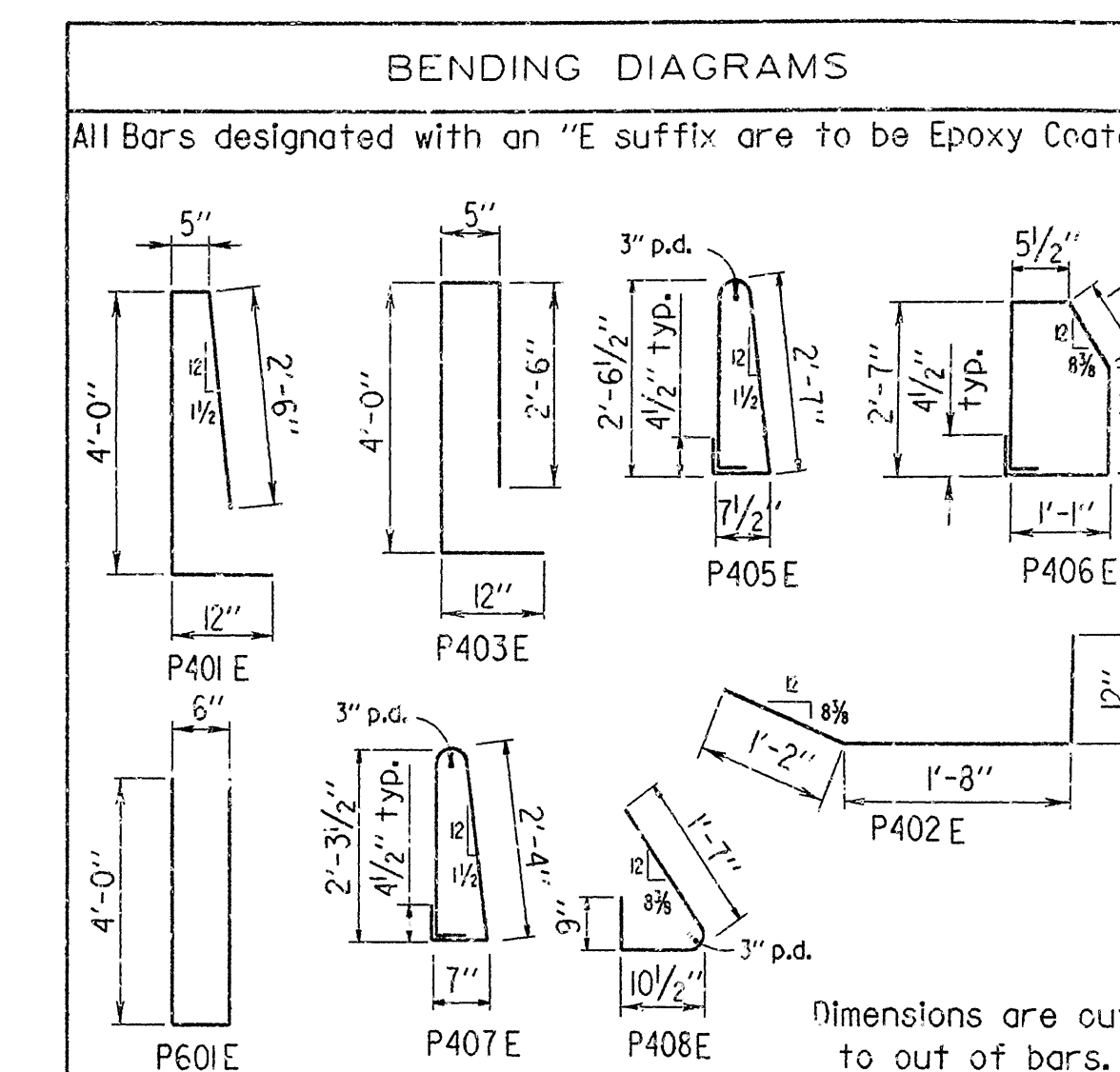
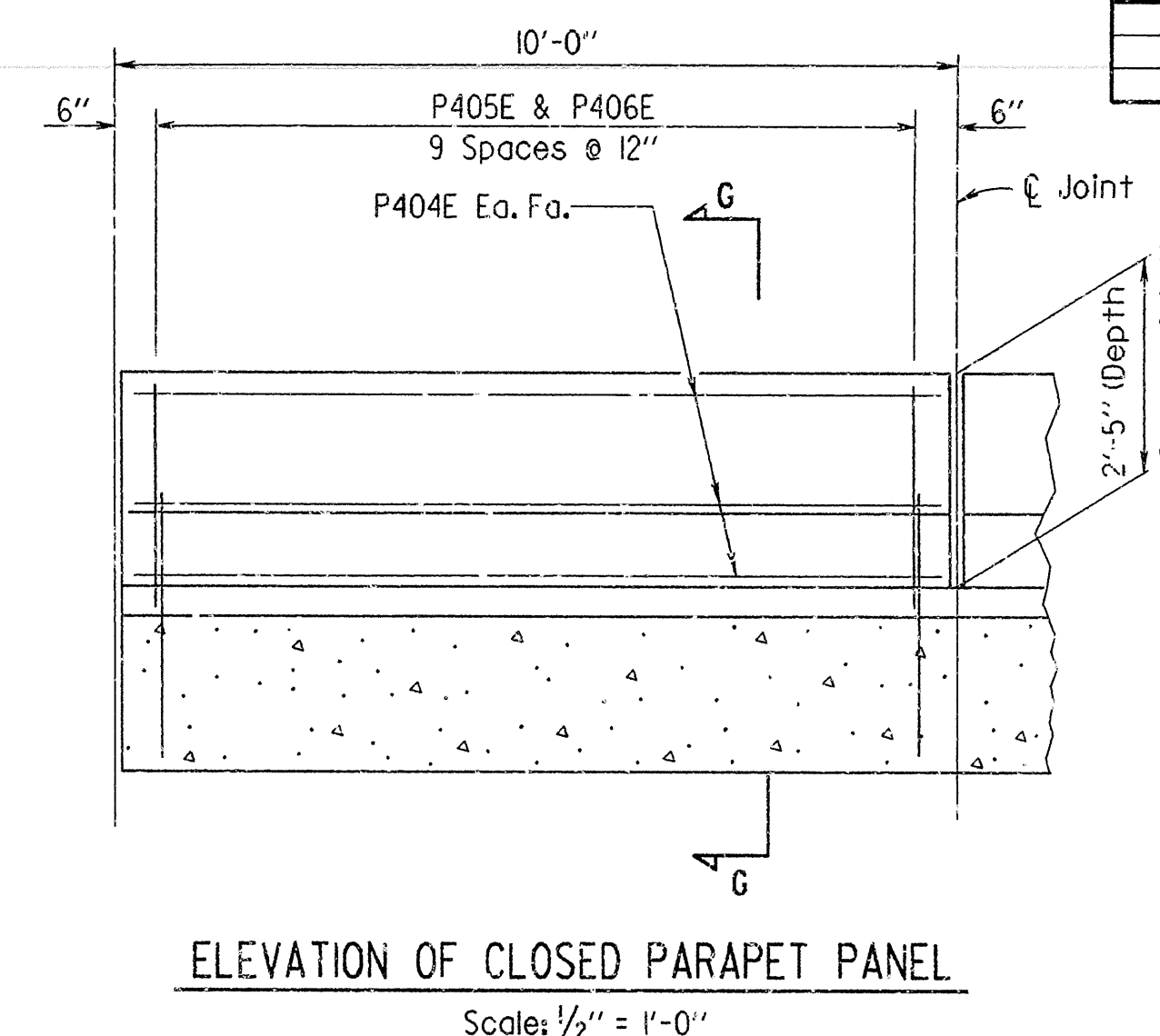
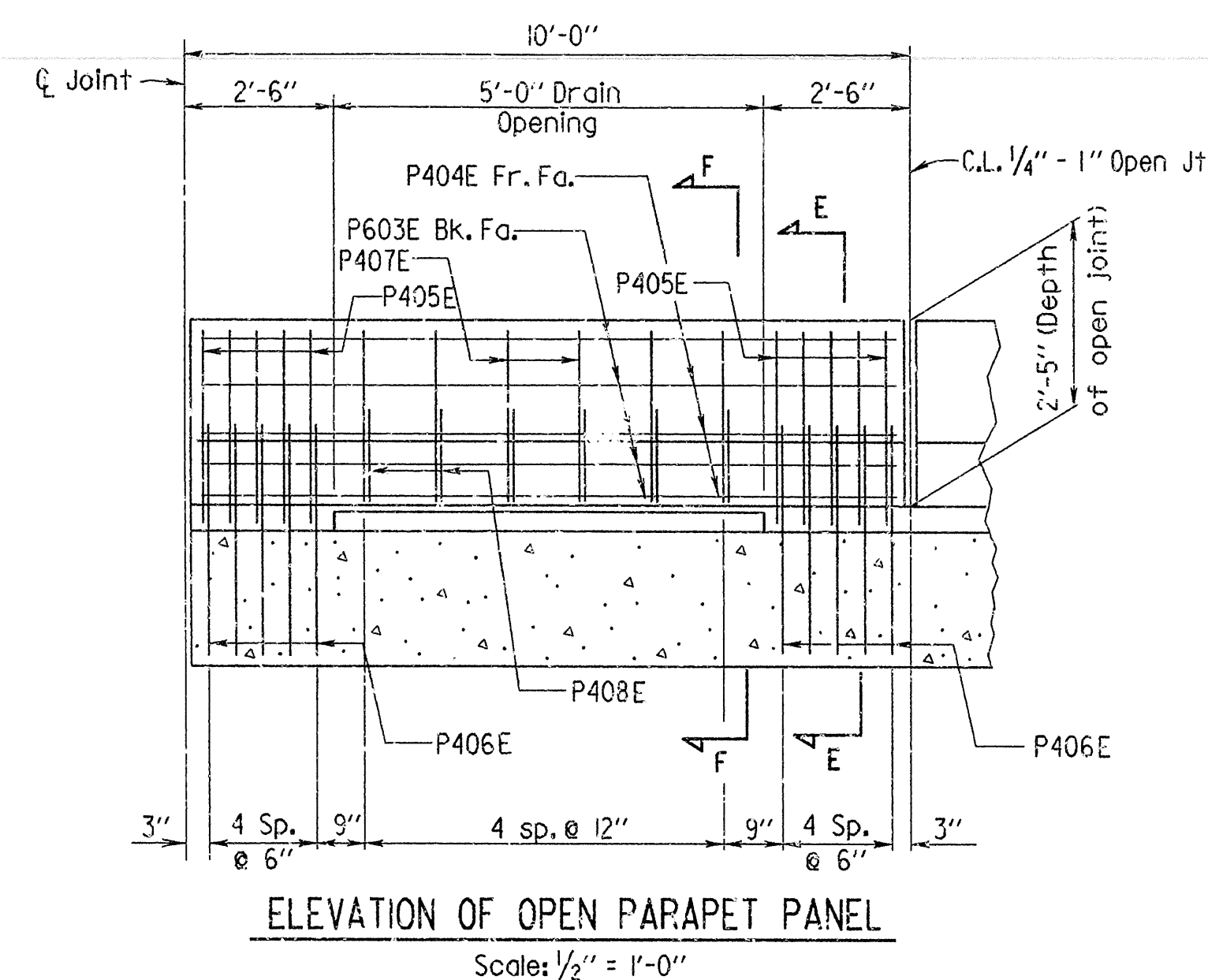
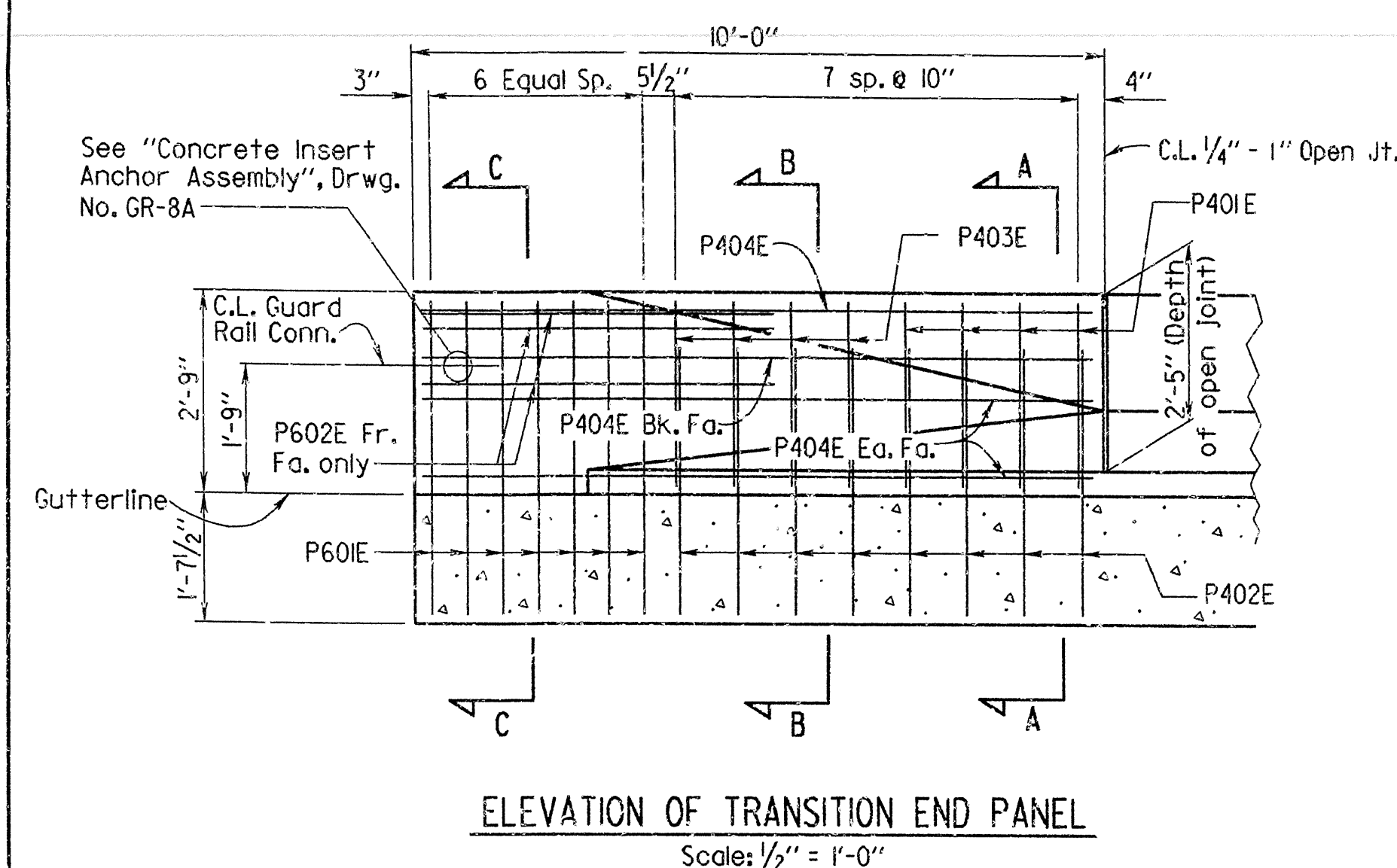


RISER DETAIL (END BENT)
 No Scale



LONGITUDINAL SECTION ALONG C.L. BRIDGE
 Scale: 1/4" = 1'-0"

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.		060616	78	113
						3245AR&BR SPAN DTLS.	34405A	



Note:
Parapet Studs shall be 5' long, granular flux filled, solid fluxed, or equal, and automatically end welded to the plate. Studs and plate shall meet the requirements of Section 807. Studs and plate shall be measured and paid for as Class S(AE) Concrete.
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, except that 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 Class S(AE) Concrete.



ALT. NO. 1
(SHEET 2 OF 2)
DETAILS OF
30' R.C. SLAB SPANS
TEN MILE CREEK
HOT SPRING COUNTY
ROUTE 1-30 SEC. 21
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: MJT DATE: 6-16-93
CHECKED BY: GEC DATE: 1-24-94 SCALE: As Shown
DESIGNED BY: GEC DATE: 3-25-93
BRIDGE NO. 3245AR&3245BR DRAWING NO. 34405A

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.	060616	79	113	
				3245AR	LAYOUT	34406		

GENERAL NOTES

BENCH MARK: Chiseled Square 29.849' Lt. of Sta. 5687+42.218, Elev. 377.32.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 1993 edition, with applicable supplemental specifications and special provisions.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 1992 with current interim specifications.

LIVE LOADING: HS20 METHOD OF DESIGN: Load Factor
SEISMIC PERFORMANCE CATEGORY: A

MATERIALS AND STRENGTHS:
Superstructure Concrete (see span drws.) f'c = 4,000 psi
Substructure Concrete (Class S) f'c = 3,500 psi
Reinforcing Steel (A615 or A617, GR. 60) fy = 60,000 psi

STEEL PILING: Piling in End Bents 1 and 6 shall be HP 10x42 and shall be driven with an approved air, steam, or diesel hammer to a minimum safe bearing capacity of 55 tons per pile. Lengths of piling shown are for estimating quantities and for use in determining payment for cut-off and build-up in accordance with the standard specifications. Piles in end bents to be driven after embankment to bottom of cap is in place.

FOOTINGS: Footings shall be set a minimum of 1'-6" into material designated as hard, blue shale on the boring legend of the existing bridge layout and shall have a minimum cover above top of footings of 2.0'. Foundations for footings shall be prepared in accordance with section 801.04 of the Standard Specifications. Rock excavations shall be made to neat lines of the concrete footings. Care shall be exercised to avoid shattering of rock faces by excessive blasting. Concrete in footings shall be poured directly against excavated surfaces of rock.

BRIDGE DECK: The new concrete bridge deck and the concrete bridge deck overlay shall be given a fine finish as specified for final finishing in subsection 802.20 for Class 5 Bridge Roadway Surface Finish.

BOILED LINSEED OIL: Boiled linseed oil treatment shall be applied to the new concrete deck, concrete overlay and to the face and top of the concrete parapet rail.

DETAIL DRAWINGS: DRAWING NO.

End Bents 34407
Interior Bents 34408, 34409
30' R.C. Slab Spans 34409, 34409A
Approach Slabs and Gutters 2016E & 2017

EXISTING BRIDGE: The existing bridge Nos. 3245A is 28' wide and 150' long. The superstructure consists of 5 - 30'-0" R.C. Sonovoid Slab Spans. The substructure consists of concrete end bents with steel piling and concrete column interior bents with spread footings.

THE WORK CONTEMPLATED CONSISTS OF: Removing the existing curb and rail at the existing gutter, repairing and widening the existing substructure, repairing the existing slabs, overlaying the existing deck, widening the existing slab, and constructing new concrete parapet railing. For requirements in conducting the work, see section 821 of the standard specifications. Remove existing approach slabs and gutters.

All dimensions relating to the existing bridge are to be verified in the field and the contractor shall be responsible for adjusting widening to the existing structure.

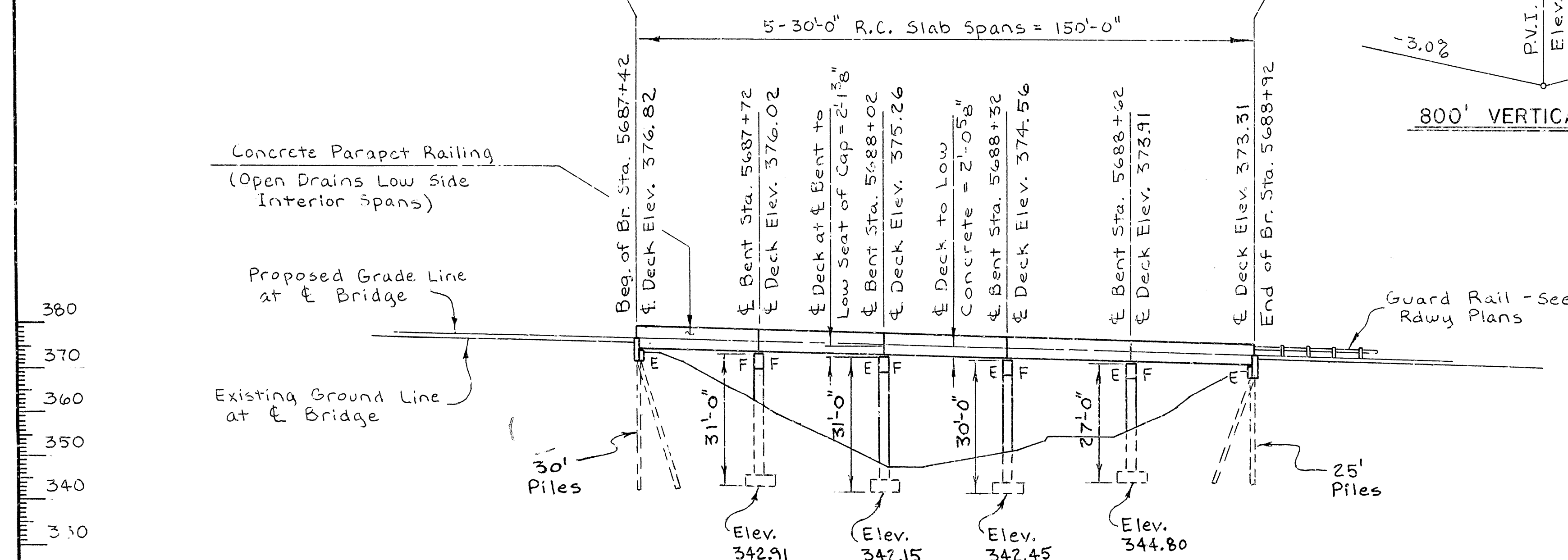
Plans of the existing structure will be made available to the Contractor upon request to the Programs and Contracts Division. Existing dwg. nos. 10023, 5421A, 5421B, 5422E.

All material from the existing bridge shall become the property of the contractor except the guard rail and the guard rail posts and spacers which shall remain the property of the state.

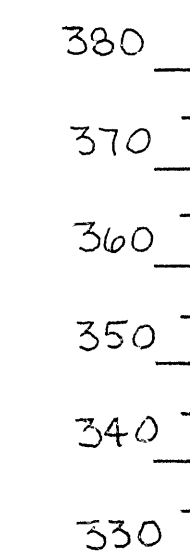
MAINTENANCE OF TRAFFIC: During widening of one bridge, Interstate Traffic will be detoured to opposite bridge. See Roadway Plans for detour alignment and grade.

Note: Use Type "E" Approach Gutters and Slabs at Both Ends of Bridge. For Details, See Dwg. Nos. 2016E and 2017.

PLAN

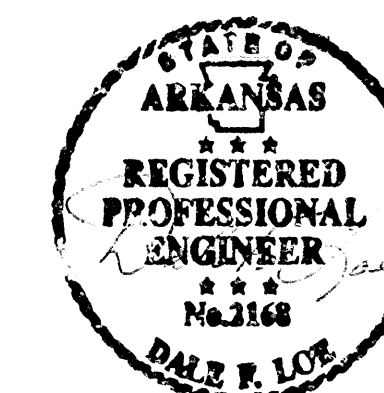
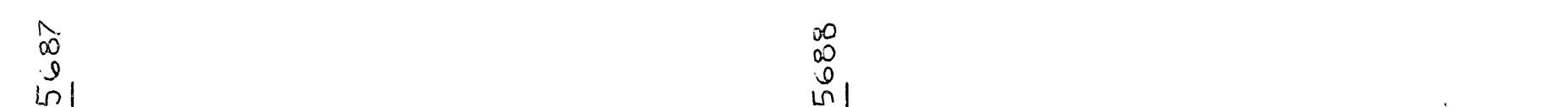


800' VERTICAL CURVE



Bent No. 1 2 3 4 5 6

ELEVATION



ALT. NO. 2
LAYOUT OF BRIDGE
OVER TEN MILE CREEK
NINE MILE CREEK - HWY. 70
HOT SPRING COUNTY
ROUTE I-30 SEC. 21
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: GEC DATE: 3-19-93
CHECKED BY: CAB DATE: 5-18-93
DESIGNED BY: GEC DATE: 2-3-93
BRIDGE NO. 3245AR DRAWING NO. 34406

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.	060616		80	113
				3245BR	LAYOUT		34406A	

GENERAL NOTES

BENCH MARK: Chiseled Square 29.849' Lt. of Sta. 5687+42.218, Elev. 377.32.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 1993 edition, with applicable supplemental specifications and special provisions.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 1992 with current interim specifications.

LIVE LOADING: HS20 METHOD OF DESIGN: Load Factor
SEISMIC PERFORMANCE CATEGORY: A

MATERIALS AND STRENGTHS:
Superstructure Concrete (see span drws.) f'c = 4,000 psi
Substructure Concrete (Class S) f'c = 3,500 psi
Reinforcing Steel (A615 or A617, GR. 60) fy = 60,000 psi

STEEL PILING: Piling in End Bents 1 and 6 shall be HP 10x42 and shall be driven with an approved air, steam, or diesel hammer to a minimum safe bearing capacity of 55 tons per pile. Lengths of piling shown are for estimating quantities and for use in determining payment for cut-off and build-up in accordance with the standard specifications. Piles in end bents to be driven after embankment to bottom of cap is in place.

FOOTINGS: Footings shall be set a minimum of 1'-6" into material designated as hard, blue shale on the boring legend of the existing bridge layout and shall have a minimum cover above top of footings of 2'-0". Foundations for footings shall be prepared in accordance with section 801.04 of the Standard Specifications. Rock excavations shall be made to neat lines of the concrete footings. Care shall be exercised to avoid shattering of rock faces by excessive blasting. Concrete in footings shall be poured directly against excavated surfaces of rock.

BRIDGE DECK: The new concrete bridge deck and the concrete bridge deck overlay shall be given a fine finish as specified for final finishing in subsection 802.20 for Class 5 Bridge Roadway Surface Finish.

BOILED LINSEED OIL: Boiled linseed oil treatment shall be applied to the new concrete deck, concrete overlay and to the face and top of the concrete parapet rail.

DETAIL DRAWINGS: DRAWING NO.

End Bents 34407
Interior Bents 34408, 34409
30' R.C. Slab Spans 34409, 34409A
Approach Slabs and Gutters 2016E & 2017

EXISTING BRIDGE: The existing bridge Nos. 3245B is 28' wide and 150' long. The superstructure consists of 5 - 30'-0" R.C. Sonovoid Slab Spans. The substructure consists of concrete end bents with steel piling and concrete column interior bents with spread footings.

THE WORK CONTEMPLATED CONSISTS OF: Removing the existing curb and rail at the existing gutter, repairing and widening the existing substructure, repairing the existing slabs, overlaying the existing deck, widening the existing slab, and constructing new concrete parapet railing. For requirements in conducting the work, see section 821 of the standard specifications. Remove existing approach slabs and gutters.

All dimensions relating to the existing bridge are to be verified in the field and the contractor shall be responsible for adjusting widening to the existing structure.

Plans of the existing structure will be made available to the Contractor upon request to the Programs and Contracts Division. Existing dwg. nos. 10023, 5421A, 5421B, 5422E.

All material from the existing bridge shall become the property of the contractor except the guard rail and guard rail posts and spacers which shall remain the property of the state.

MAINTENANCE OF TRAFFIC: During widening of one bridge, Interstate Traffic will be detoured to opposite bridge. See Roadway Plans for detour alignment and grade.

ALTERNATE NO. 2 LAYOUT OF BRIDGE

OVER TEN MILE CREEK
NINE MILE CREEK - HWY. 70
HOT SPRING COUNTY

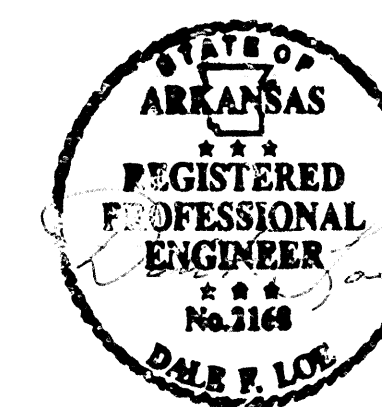
ROUTE I-30 SEC. 21

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: GEC DATE: 3-19-93
CHECKED BY: CAB DATE: 5-19-93
DESIGNED BY: GEC DATE: 2-3-93

SCALE: 1" = 20'-0"



BRIDGE ENGINEER

BRIDGE NO. 3245BR DRAWING NO. 34406A

NOTE: Existing bridge constructed on a 150' chord of the E Lanes. Widen bridge about the existing bridge.

Approx. 5.5 miles to
Jct. S.H. 88

Traffic
New & Bridge Traffic

PLAN

800' VERTICAL CURVE

ELEVATION

Bent No. 1 2 3 4 5 6

Concrete Parapet Railing
(Open Drains Low Side
Interior Spans)

Guard Rail - See
Rdwy. Plans

Proposed Grade Line
at Bridge

Existing Ground Line
at Bridge

30' Piles

25' Piles

Elev. 342.87

Elev. 342.11

Elev. 342.39

Elev. 344.73

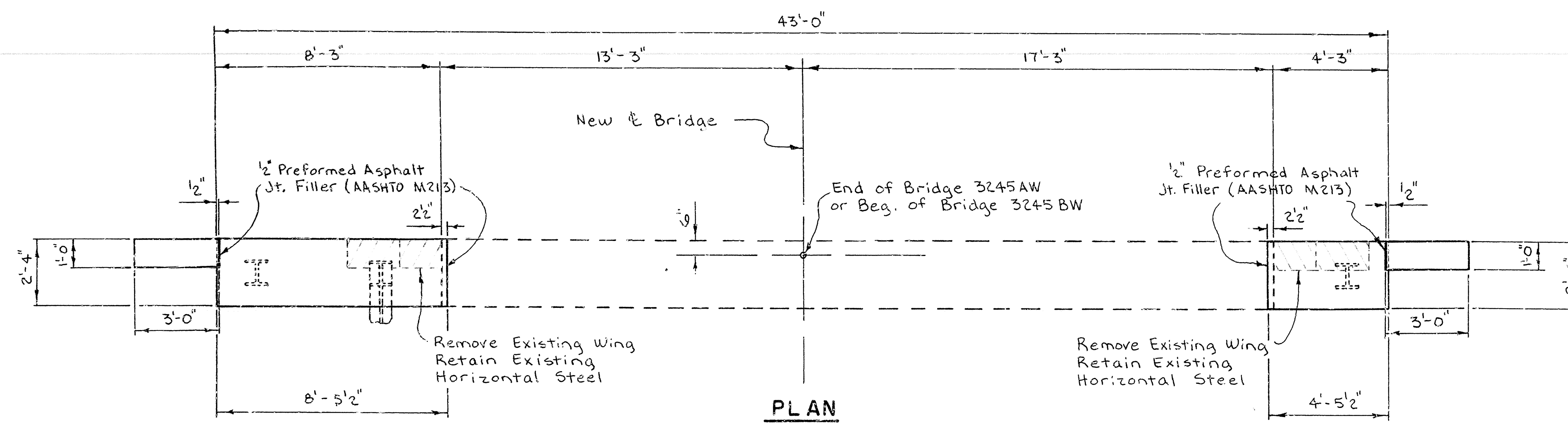
5687

5688

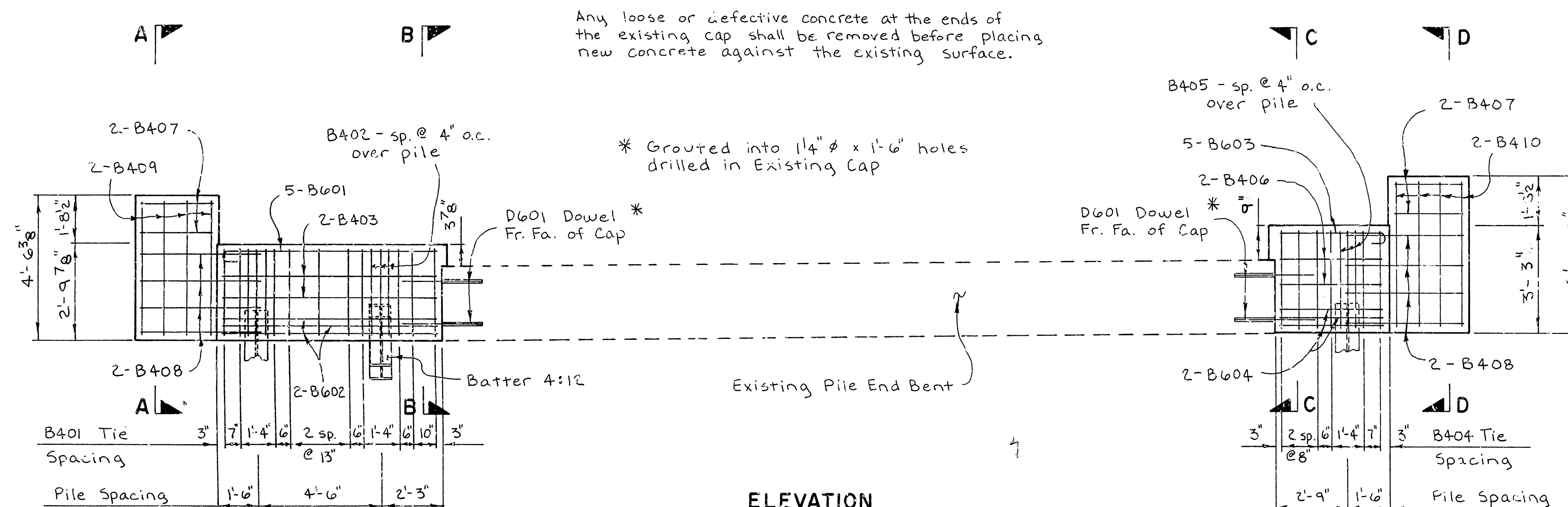
5689

307267

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.	060616	81	113	
				① 3245 AR & BR	END BENTS	34407		

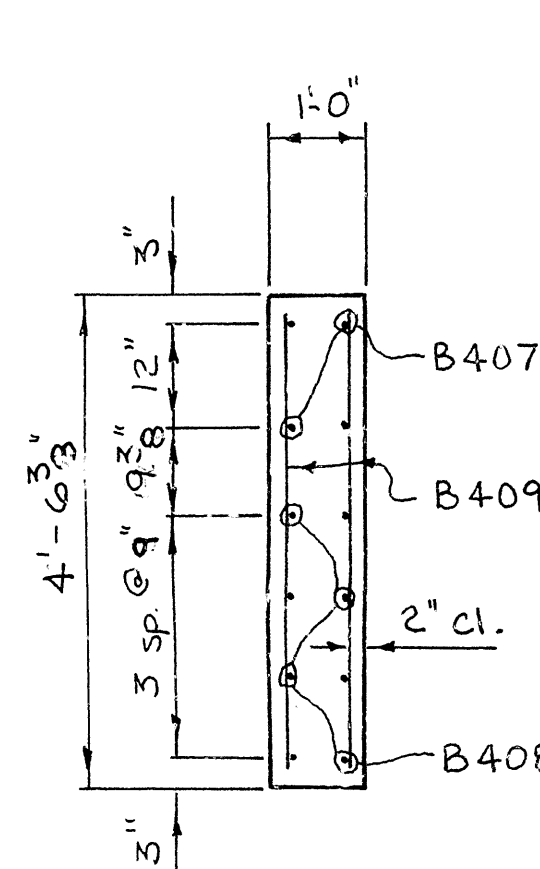


PLAN

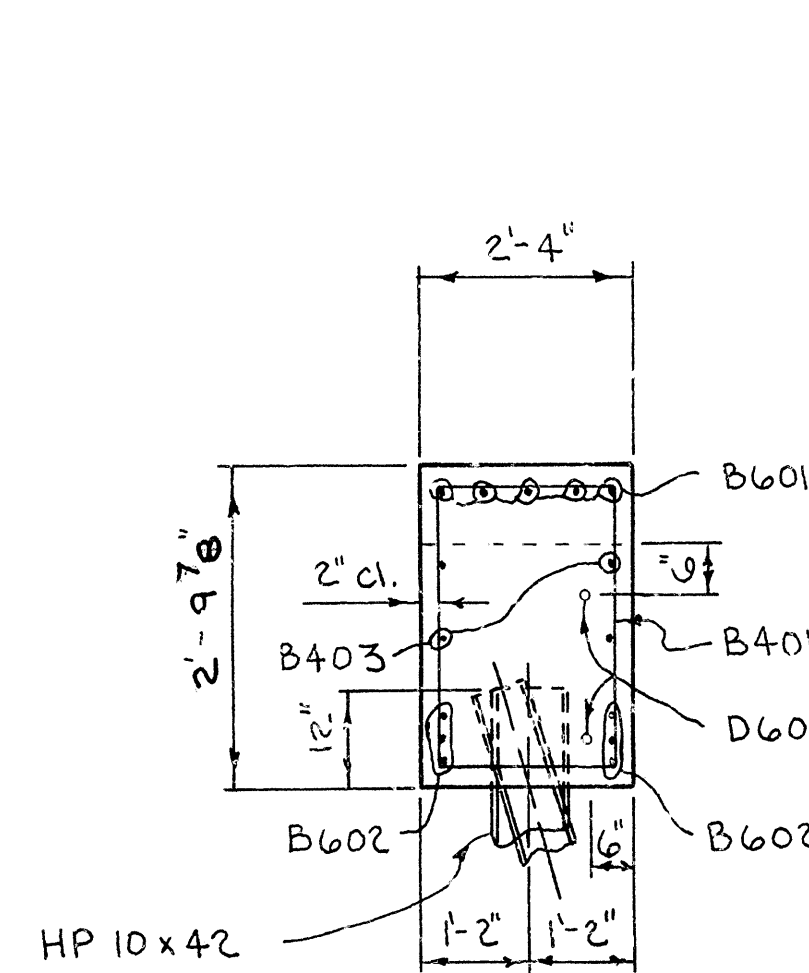


ELEVATION

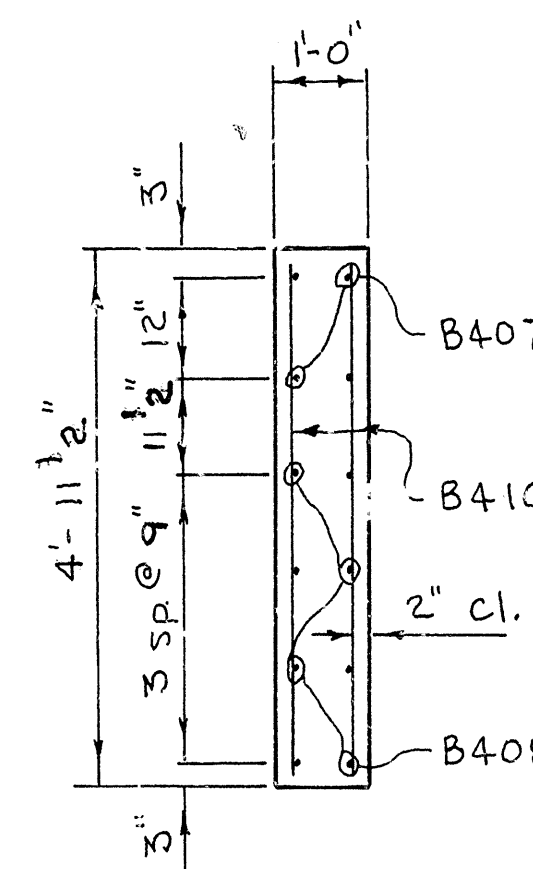
Looking Forward Bent 6 Bridge 3245 AR
Looking Back Bent 1 Bridge 3245 BR
Other End Bents are similar.



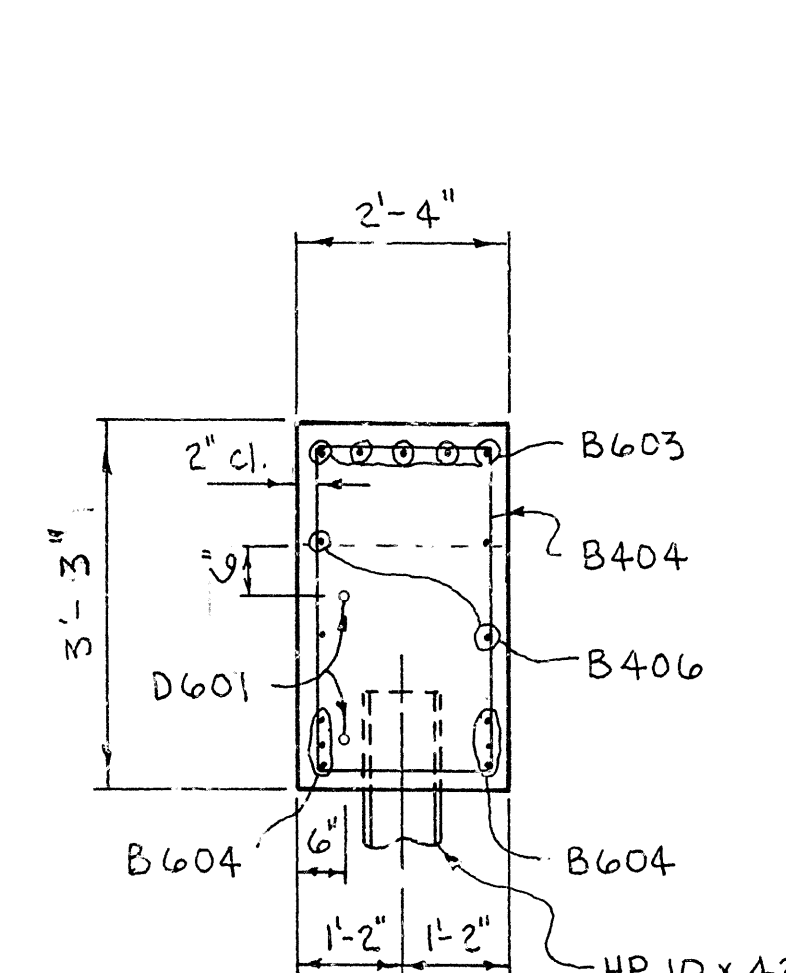
SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"



SECTION D-D
SCALE: 1/2" = 1'-0"



SECTION C-C
SCALE: 1/2" = 1'-0"

BAR LIST - PER BENT

MARK	NO. REQD	LENGTH	A	B	PIN DIA.	BENDING DIAGRAMS
B401	10	9'-2"	2'-0"	2'-5"	2"	
B402	6	6'-8"	2'-0"	2'-5"	2"	
B403	4	8'-0"			Str.	
B404	6	10'-2"	2'-0"	2'-11"	2"	
B405	3	7'-8"	2'-0"	2'-11"	2"	
B406	4	4'-0"			Str.	
B407	8	2'-8"			Str.	
B408	16	4'-6"			Str.	
B409	8	4'-2"			Str.	
B410	8	4'-7"			Str.	
B601	5	8'-8"	8'-0"	6"	4 1/2"	
B602	6	8'-0"			Str.	
B603	5	4'-8"	4'-0"	6"	4 1/2"	
B604	6	4'-0"			Str.	
D601	4	3'-0"			Str.	

Dimensions are out to out of bars.

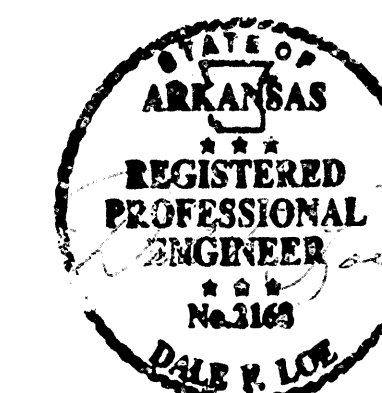
GENERAL NOTES

All Concrete shall be Class "S" with a minimum 28 day compressive strength $f'_c = 3500$ psi, and shall be poured in the dry. All exposed corners to be chamfered $3/4$ " unless otherwise noted.

All Reinforcing Steel shall conform to ASTM A615 or A617, Grade 60 (yield strength = 60,000 psi).

All piling shall be driven to a minimum bearing capacity of 55 tons per pile.

For additional information, see Layout.



ALTERNATE NO. 2
DETAILS OF WIDENING
END BENTS
TEN MILE CREEK
HOT SPRING COUNTY

ROUTE 1-30 SEC. 21

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: GEC DATE: 6-2-93
CHECKED BY: CAB DATE: 6-4-93
DESIGNED BY: GEC DATE: 3-25-93

BRIDGE NO. 3245 AR & BR DRAWING NO. 34407

① 3245 AR: BR BENT DETAILS 34408



TABLE OF VARIABLES



BAR LIST - PER BENT

GENERAL NOTES

All Concrete shall be Class "S" with a minimum 28 day compressive strength $f'_c = 3500$ psi. and shall be poured in the dry. All exposed corners to be chamfered $3/4$ " unless otherwise noted.

All Reinforcing Steel shall conform to ASTM A615 or A617,
Grade 60 (yield strength = 60,000 psi.)

For additional information, see layout.

ALTERNATE NO. 2
DETAILS OF WIDENING
BENT NOS. 2 THRU 5
TEN MILE CREEK
HOT SPRING COUNTY

ROUTE I-30 SEC. 21

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: GEC DATE: 5-27-93

CHECKED BY: CAB DATE: 6-3-93 SCALE: 3/8" = 1'-0" or as noted

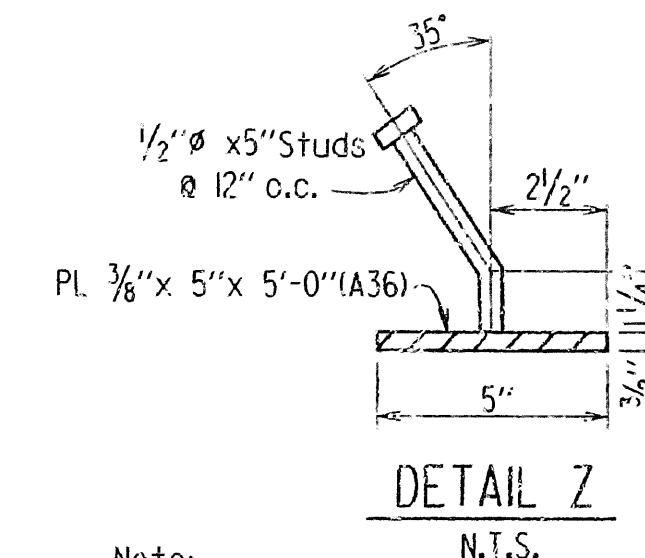
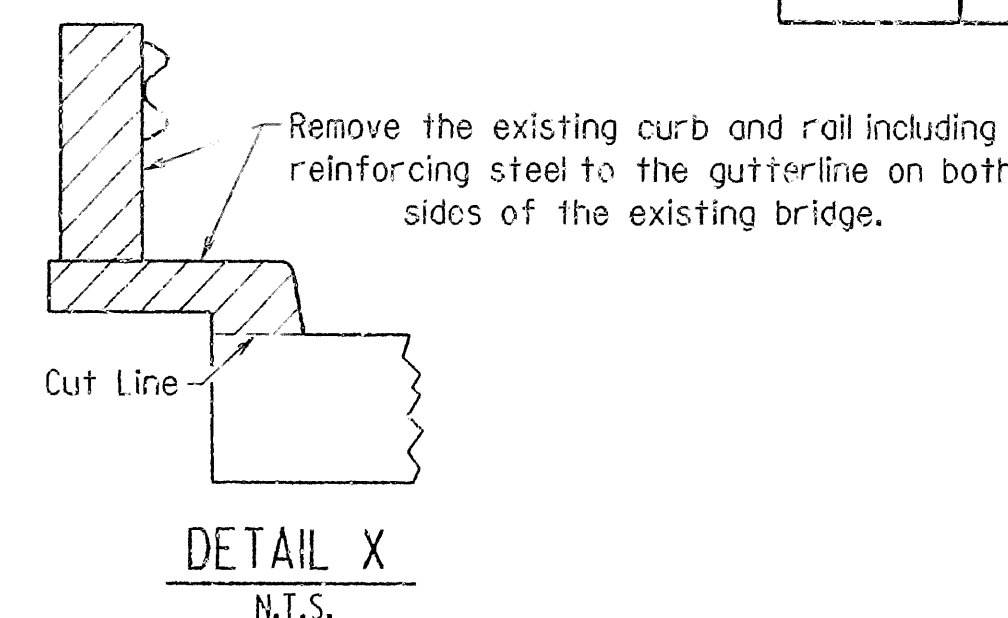
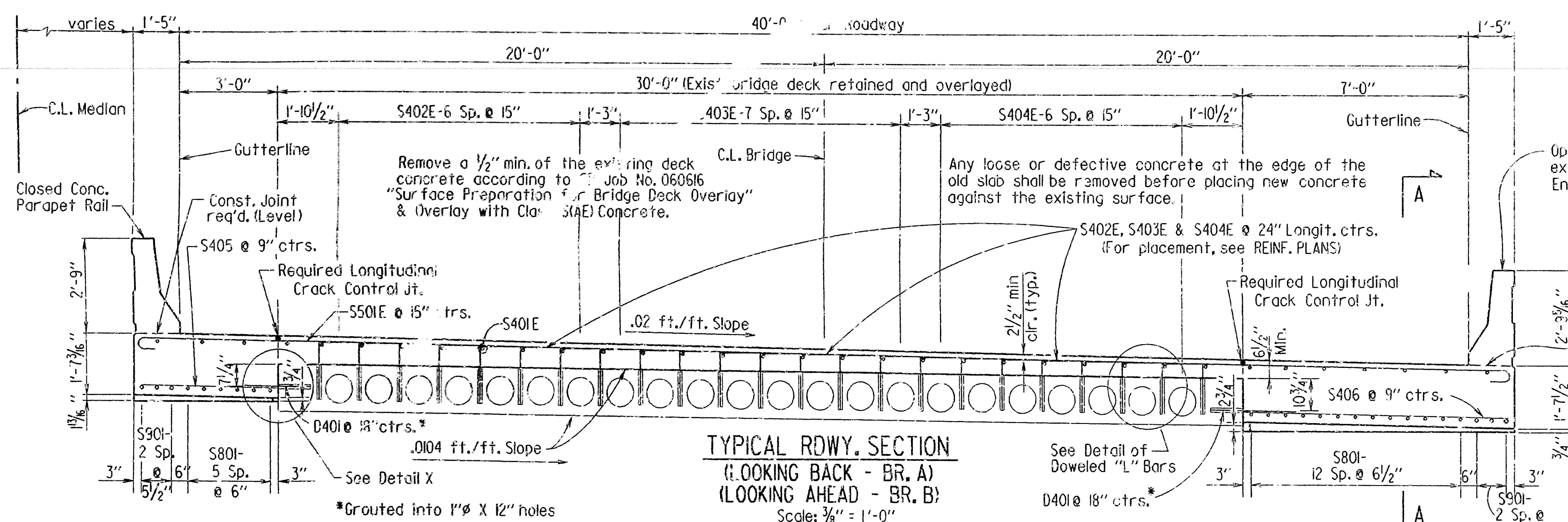
DESIGNED BY: GEC DATE: 3-24-93

BRIDGE NO. 3245 AR 1 BR DRAWING NO. 34408



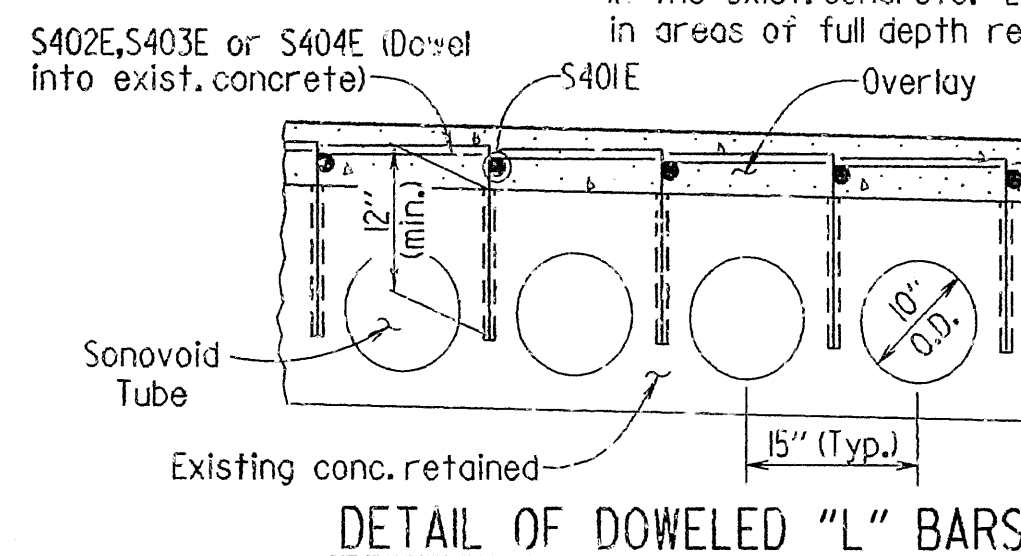
BRIDGE ENGINEER

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.		060616	83	113
						3245AR&BR	SPAN DETAILS	34409

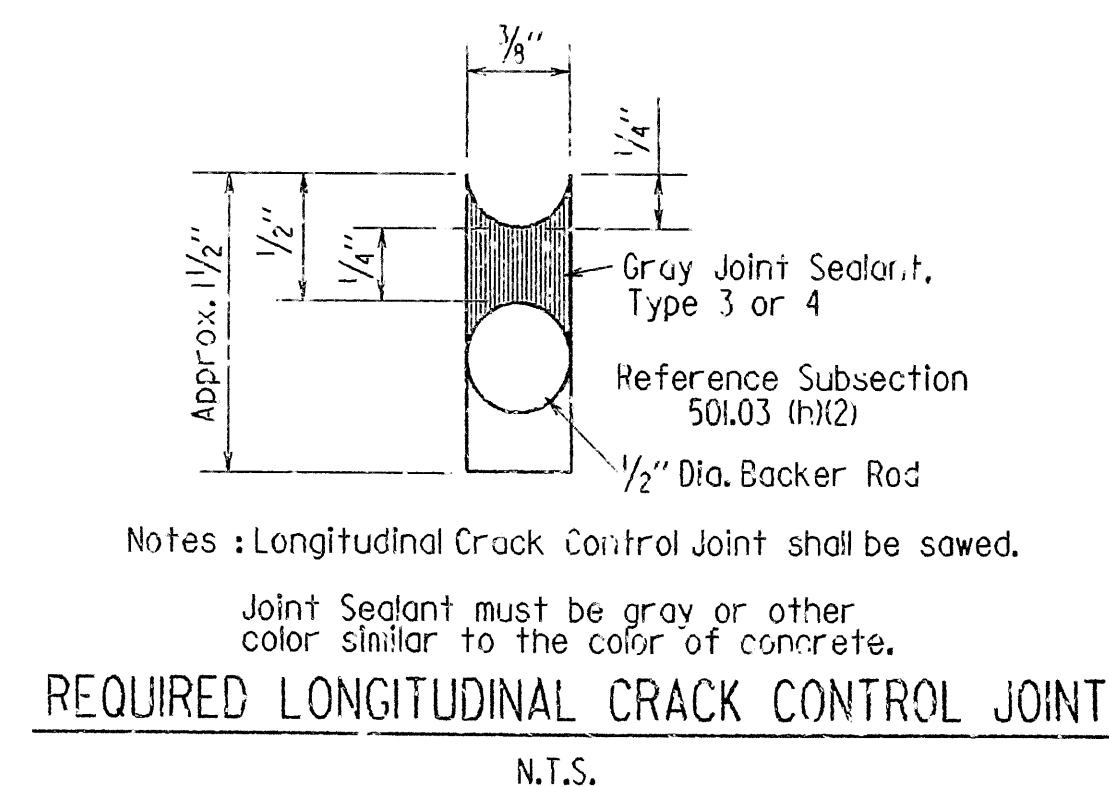
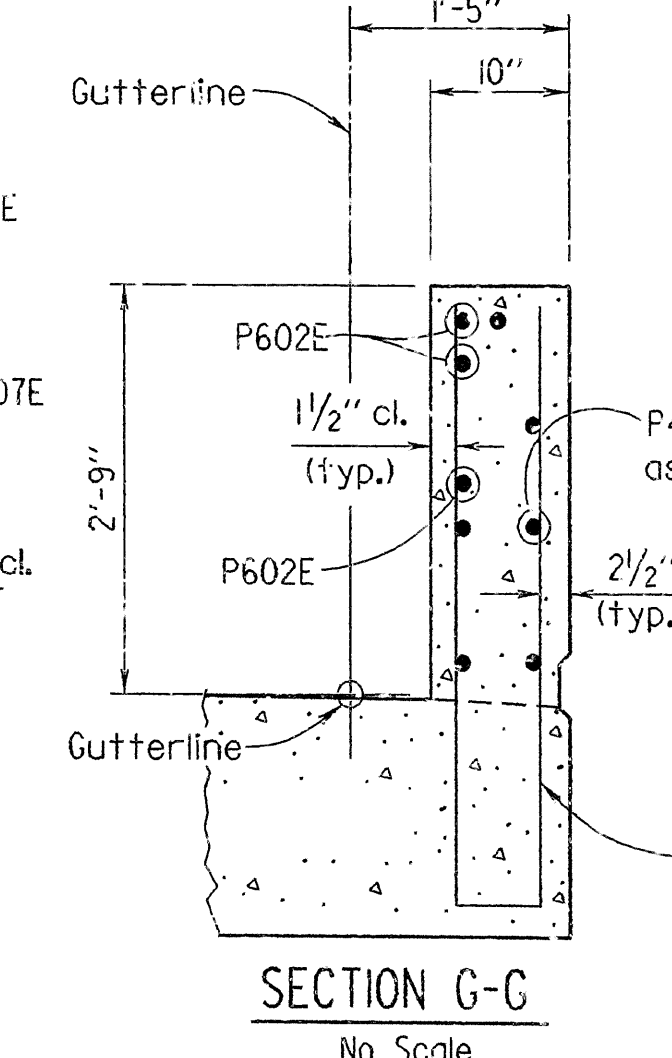
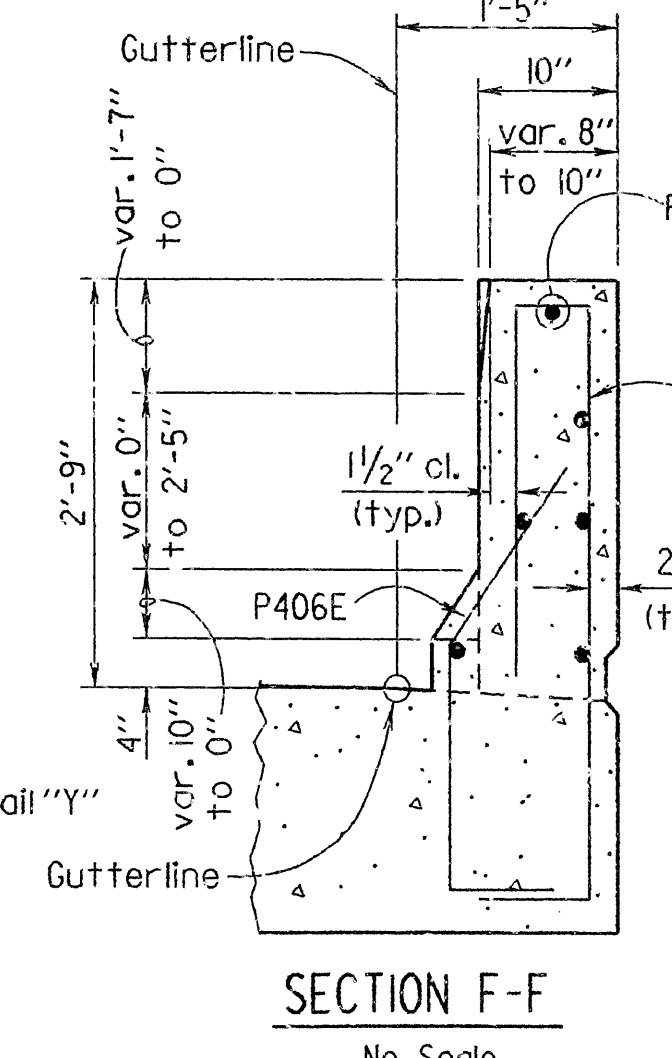
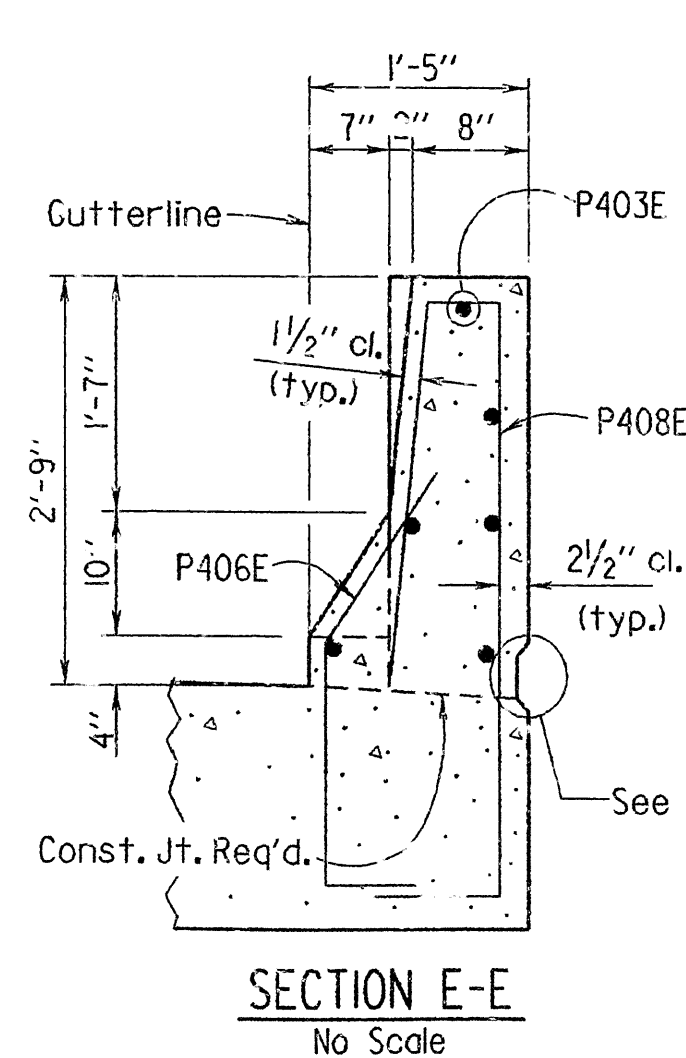
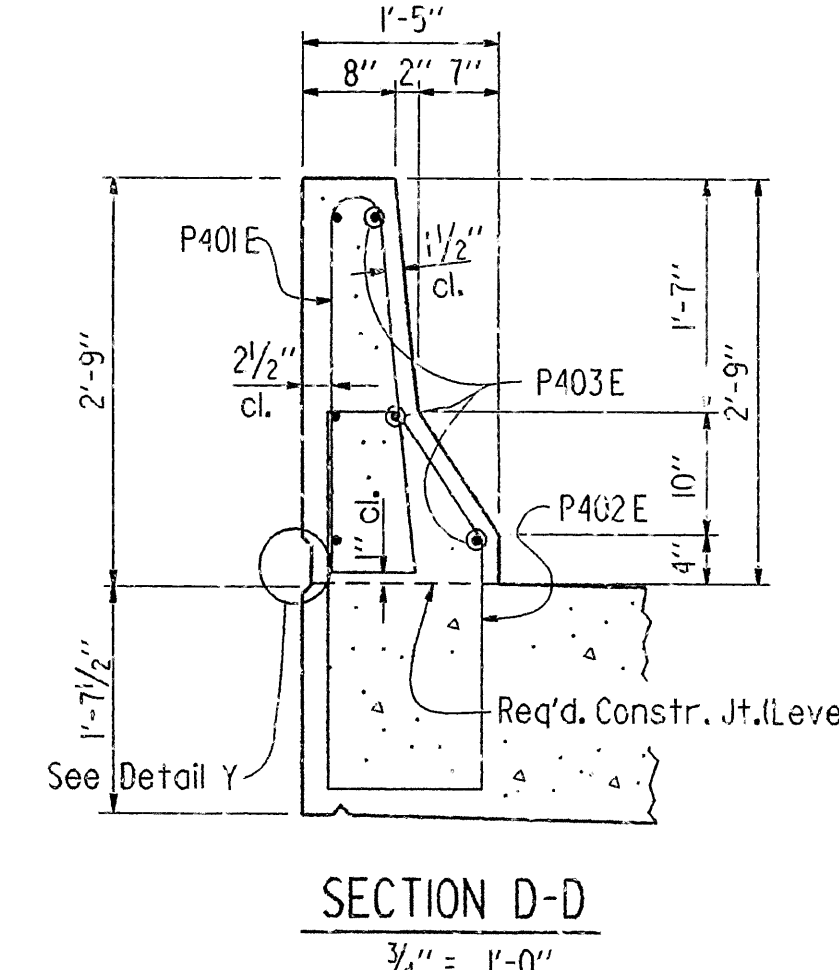
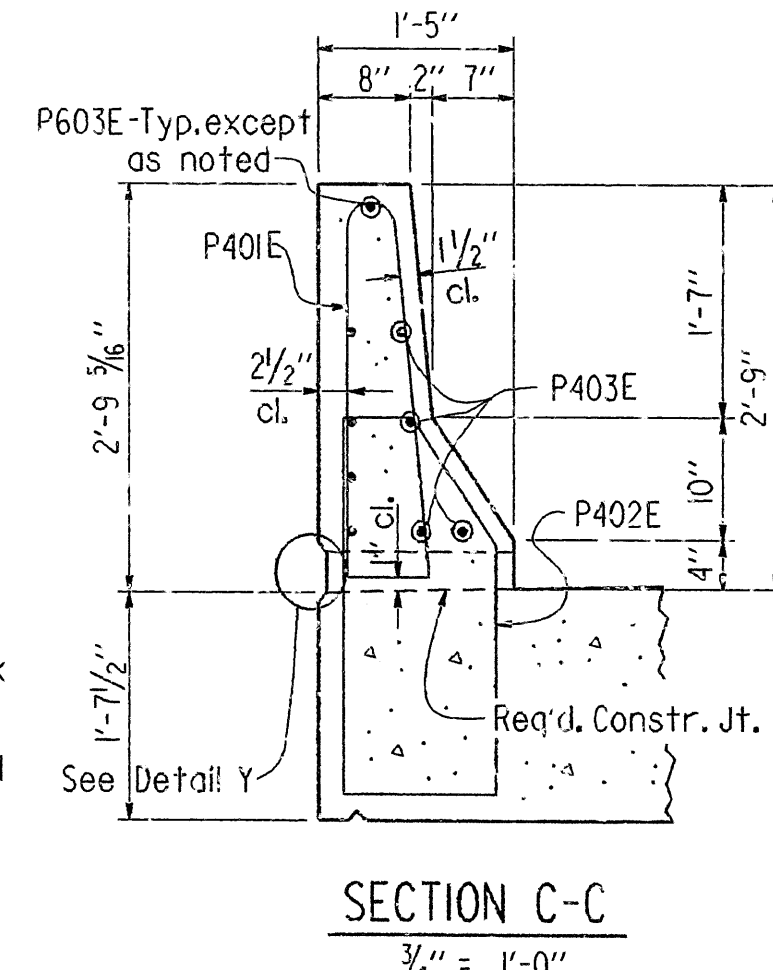
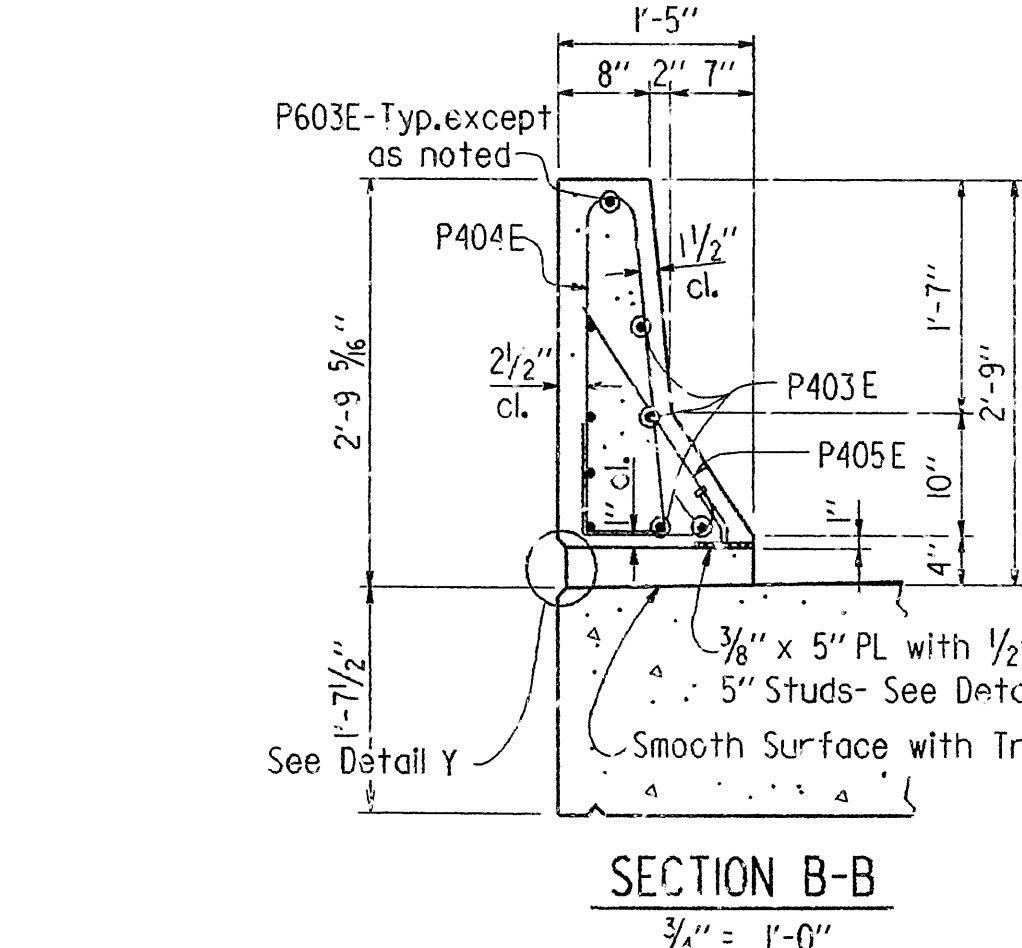
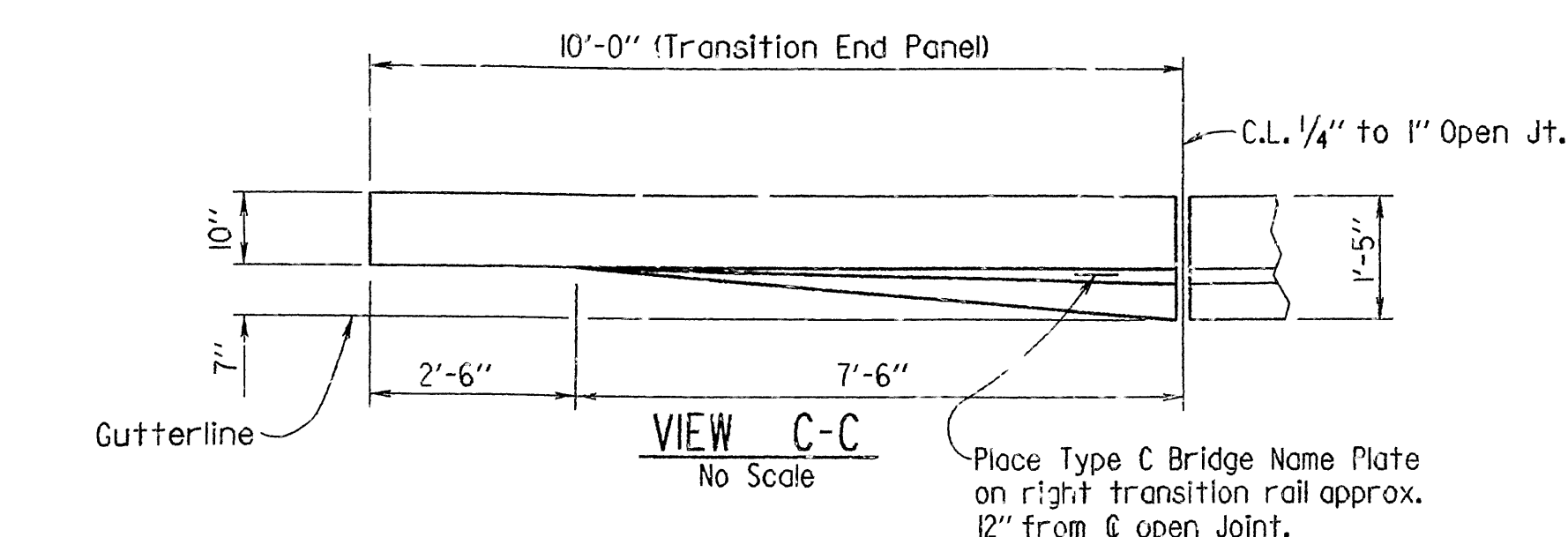
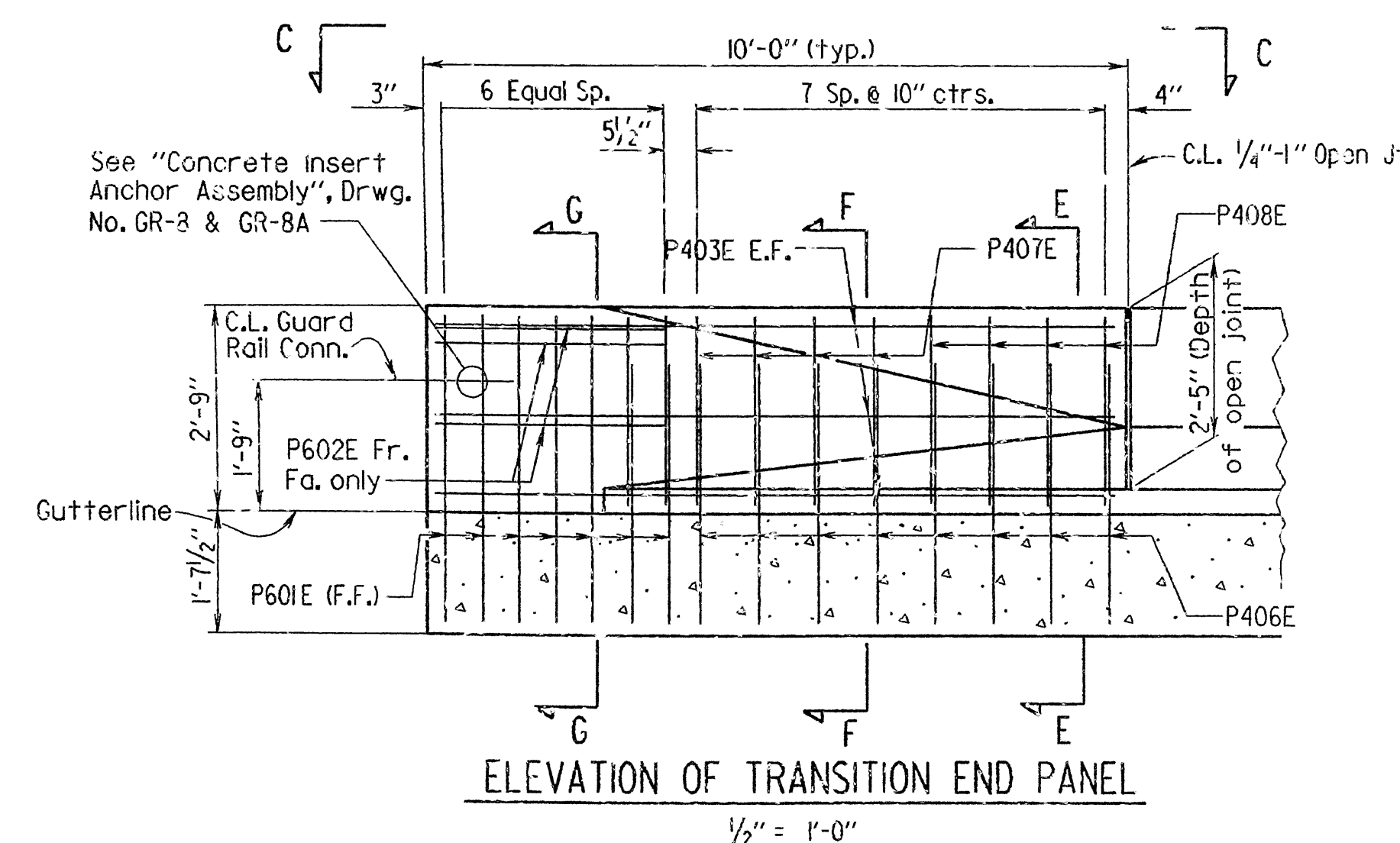
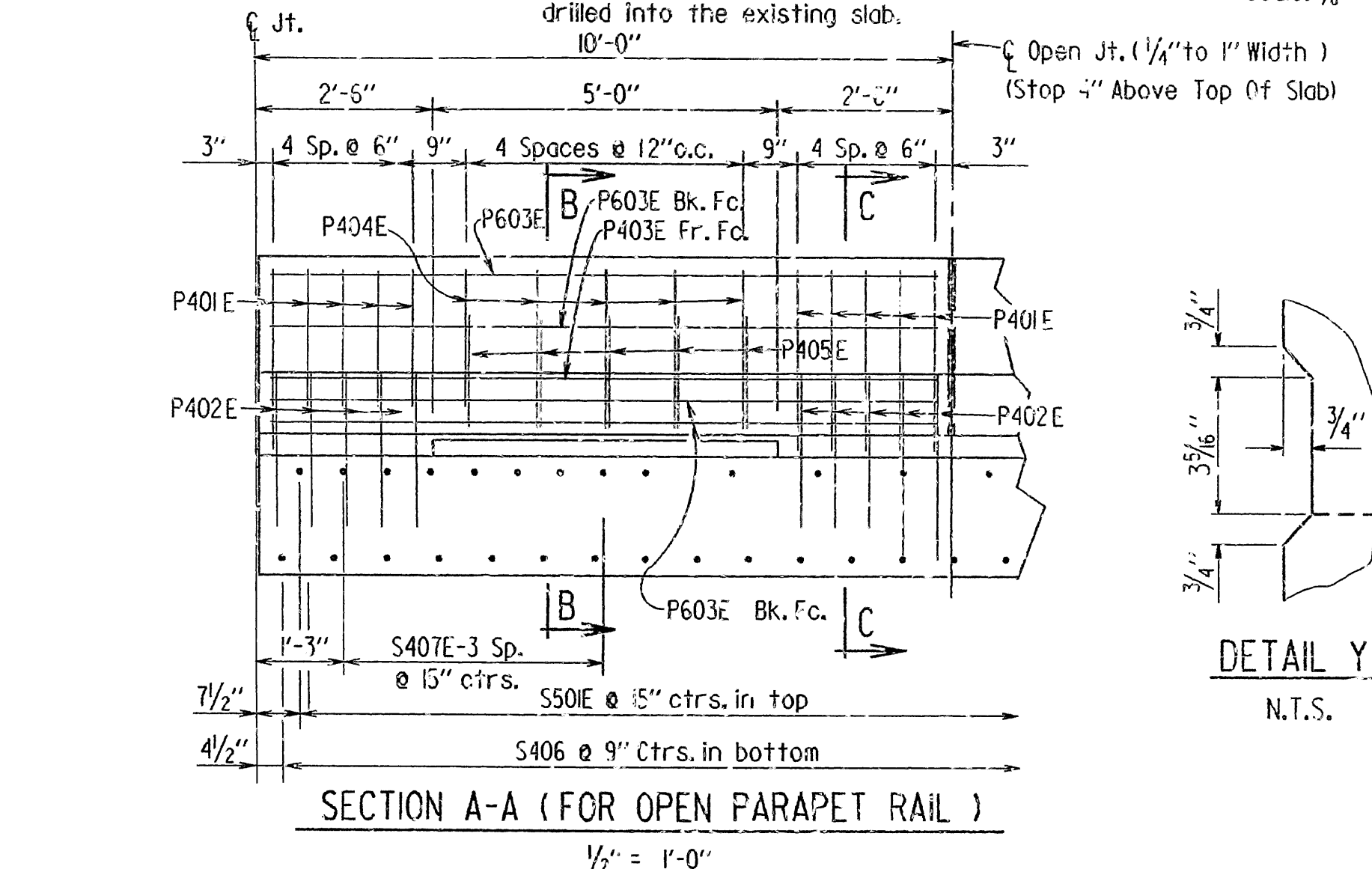
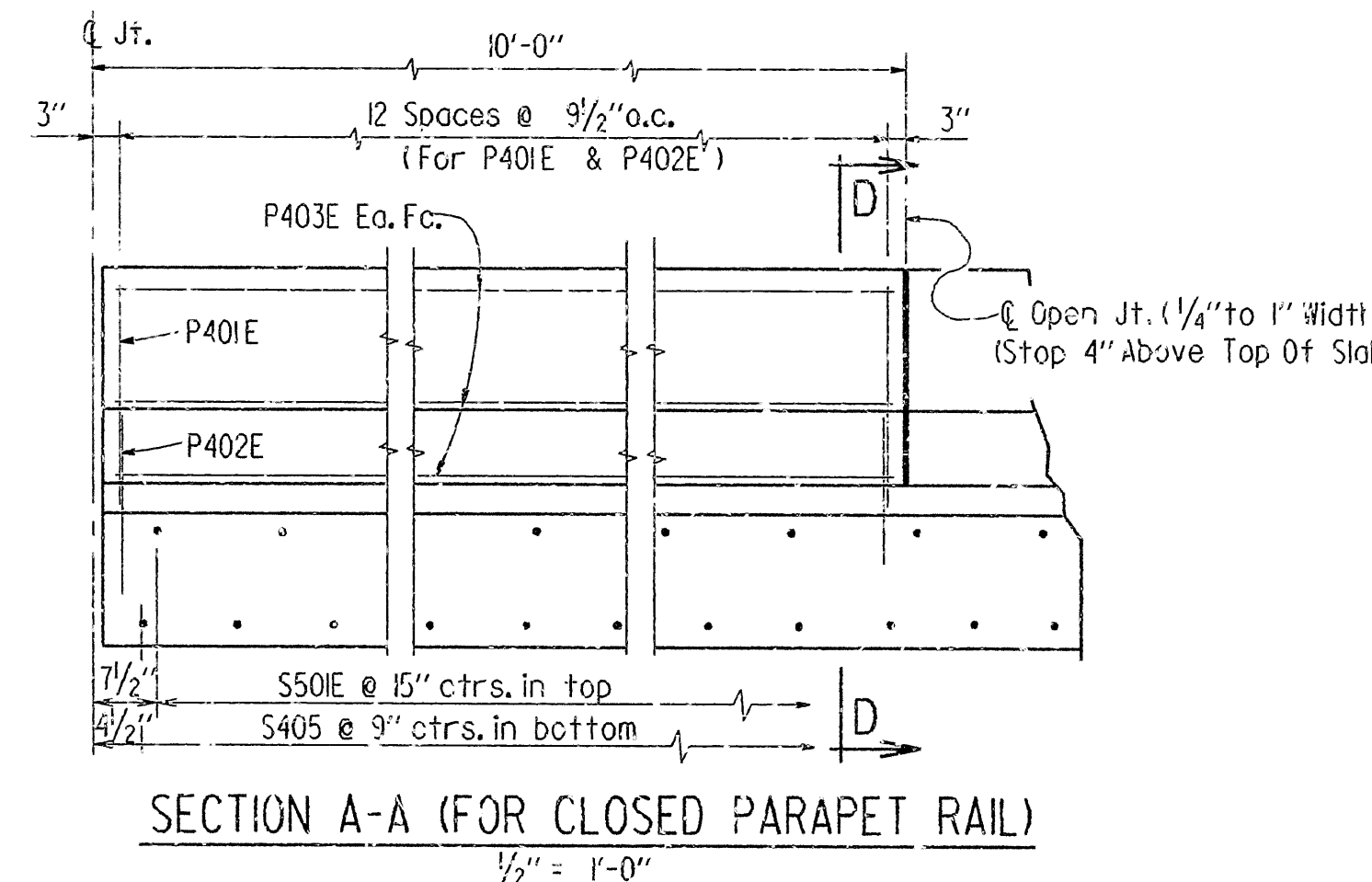


Note: The surfaces of the 3/8" plates which will not be in contact with concrete shall be painted in accordance with Section 538, or as approved by the Engineer. Only one coat is required and shall be applied in the fabricator's shop. Painting will not be paid for directly, but will be considered subsidiary to Class (S)AE Concrete-Bridge. Parapet studs shall be 5" long, granular flux-filled, solid fluxed, or equal and automatically end welded to the plate. Studs and plate shall meet the requirements of Section 807. Studs and plates shall be measured and paid for as Class (S)AE Concrete.

Note: All doweled "L" bars shall be grouted 12" min. into 1" holes drilled in the exist. concrete. "L" bars may be omitted in areas of full depth repair.



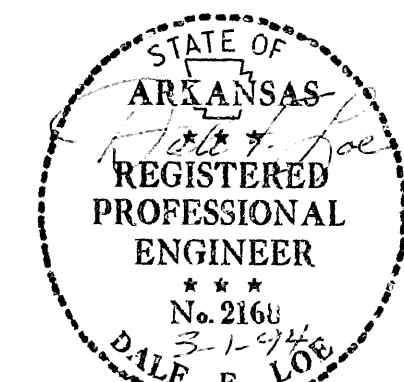
Note: Contractor to adjust drill pattern as needed to miss Sonovoid Tubes. Fill or plug abandoned holes.



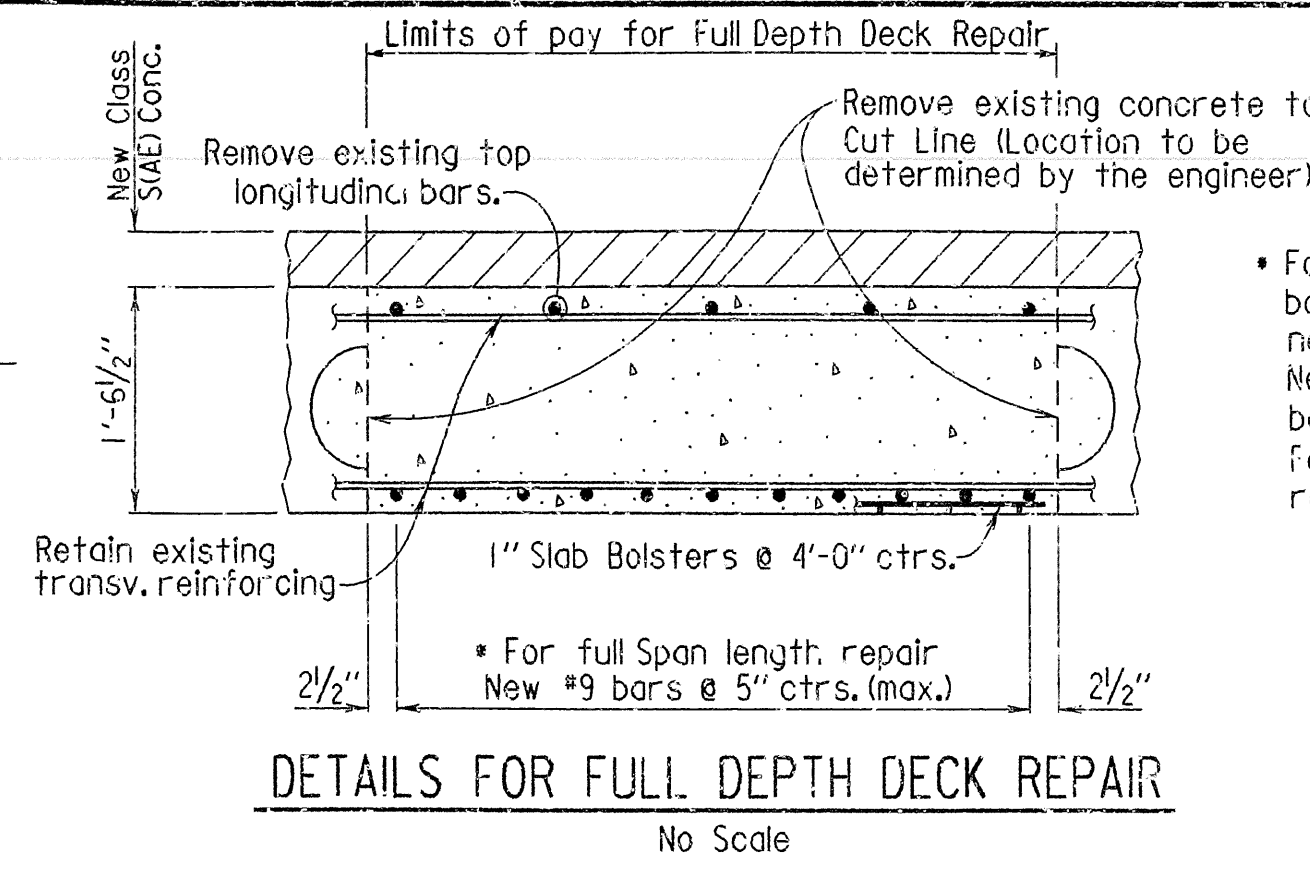
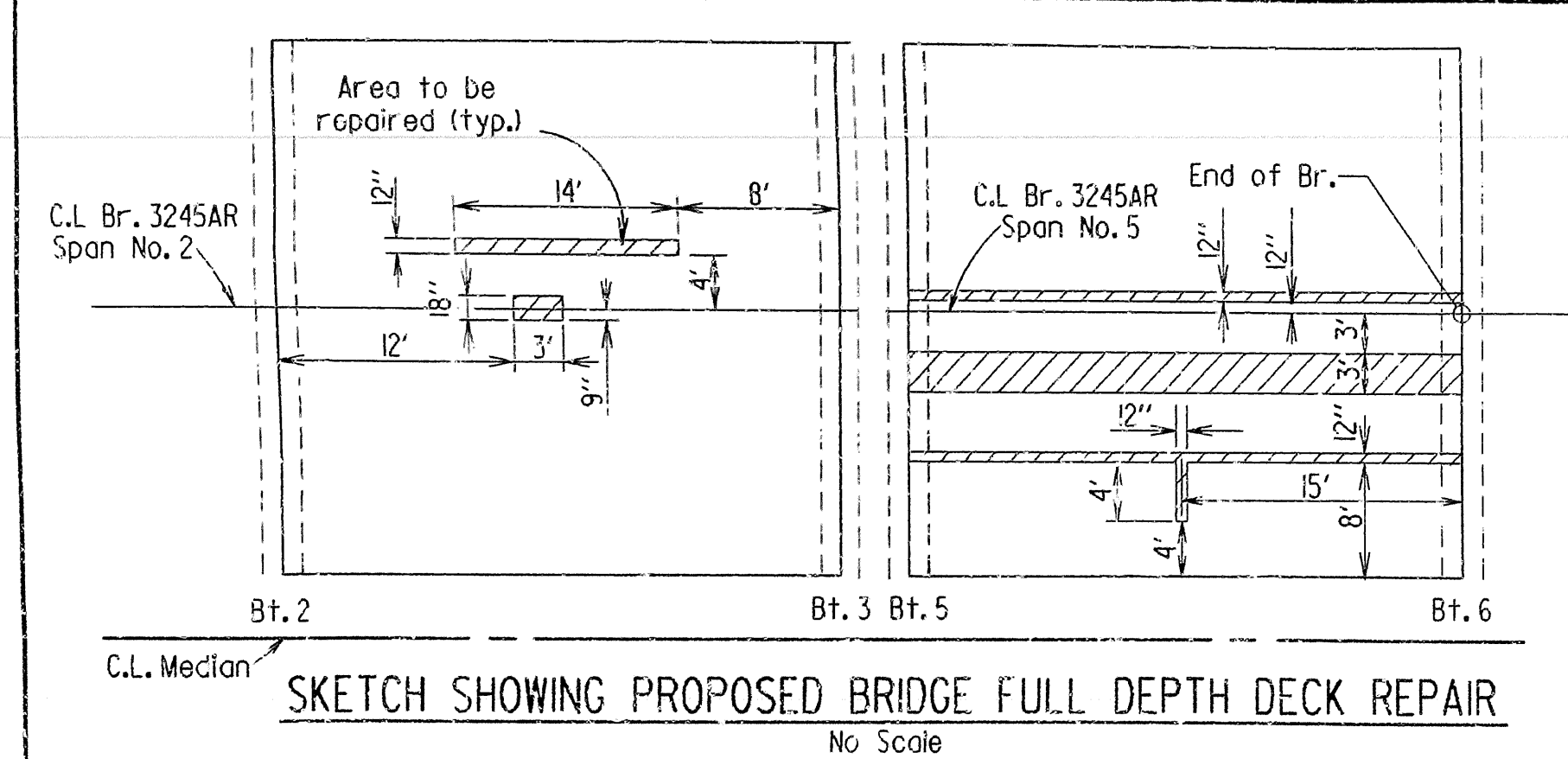
Notes: Longitudinal Crack Control Joint shall be sawed.

Joint Sealant must be gray or other color similar to the color of concrete.

REQUIRED LONGITUDINAL CRACK CONTROL JOINT



ALTERNATE NO. 2
(SHEET 1 OF 2)
DETAILS FOR WIDENING
30' R.C. SLAB SPANS
TEN MILE CREEK
HOT SPRING COUNTY
ROUTE 1-30 SEC. 21
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: MJT DATE: 5/27/93
CHECKED BY: GEC DATE: 7/26/93
DESIGNED BY: GEC DATE: 3/25/93
BRIDGE NO. 3245AR&3245BR DRAWING NO. 34409



* For full span length repair remove existing bottom longitudinal bars and replace with new bars meeting ASTM A615 or 617, Grade 60. New bars will not be paid for directly, but will be considered subsidiary to "Full Depth Deck Repair". For partial span length repair, strip clean and retain existing bottom longitudinal bars.

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.		060616	84	113

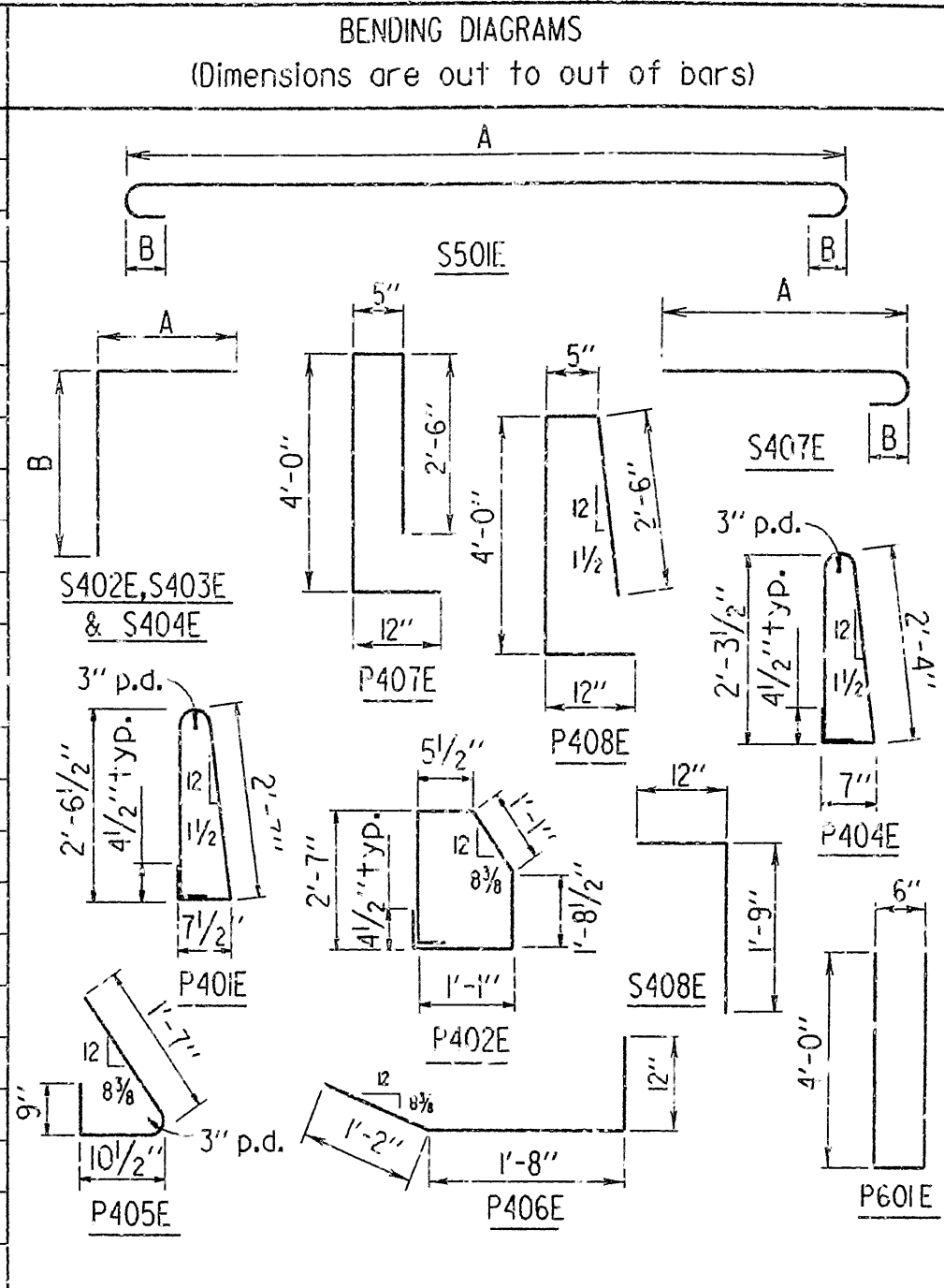
3245AR&BR SPAN DTLS. 34409A

• Spans 1- Br. B & Span 5- Br. A
• Spans 2-5 Br. B & Spans 1-4 Br. A

Note: All bars designated with an "E" suffix are to be Epoxy Coated.

BAR LIST (PER SPAN)

MARK	NUMBER REQUIRED	LENGTH	A	B	P.D.
S401E	34	29'-8"			Str.
S402E	218	2'-10"	1'-3"	1'-8"	2"
S403E	203	2'-9"	1'-3"	1'-7"	2"
S404E	217	2'-8"	1'-3"	1'-6"	2"
S405	40	4'-3"			Str.
S406	40	8'-3"			Str.
S407E	4	3'-5"	2'-11"	4 1/2"	3"
S408E	4	2'-8"			2"
S501E	24	43'-8"	42'-6"	5"	3 3/4"
S801	19	29'-8"			Str.
S901	6	29'-8"			Str.
P401E	46	6'-4"			2"
P402E	46	7'-3"			2"
P403E	32	3'-8"			Str.
P404E	10	5'-10"			2"
P405E	10	3'-2"			2"
P406E	16	3'-9"			2"
P407E	8	7'-8"			2"
P408E	8	7'-8"			2"
P601E	14	8'-2"			4 1/2"
P602E	6	5'-0"			Str.
P603E	10	9'-8"			Str.
D401	40	2'-8"			Str.



Δ 24 - End Spans
48 - Int. Spans

General Notes

All concrete shall be Class (SIAE). All exposed corners to be chamfered 1/4" unless otherwise noted. 28 day compressive strength of Class (SIAE) Concrete = 4000 psi.

Reinforcing Steel to be ASTM A615 or A617, Grade 60.

Neoprene or Nylon Reinforced Neoprene Pad, Preformed Joint Filler, Structural Steel, and Type 6 Poured Synthetic Polymer Joints shall be measured and paid for as "Class (SIAE) Concrete".

Specifications: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 1993 edition, with applicable supplemental specifications.

Design Specifications: AASHTO Standard for Highway Bridges, 1992 edition, with current interim specifications.

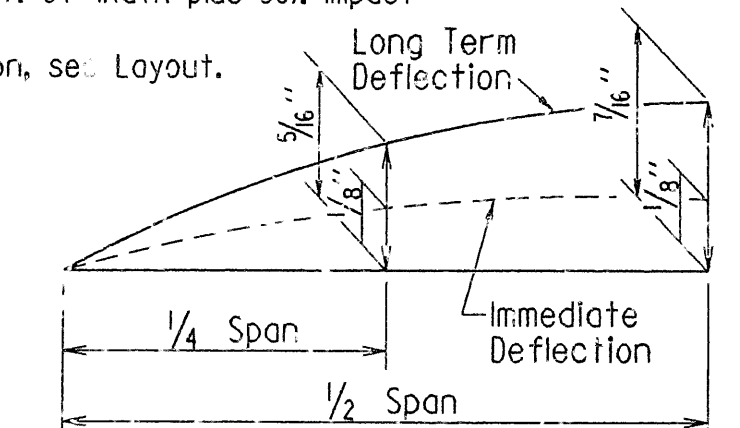
Design Live Loading: HS 20 Method of Design: Load Factor

Load Distribution to Slab: Long Term Deflection

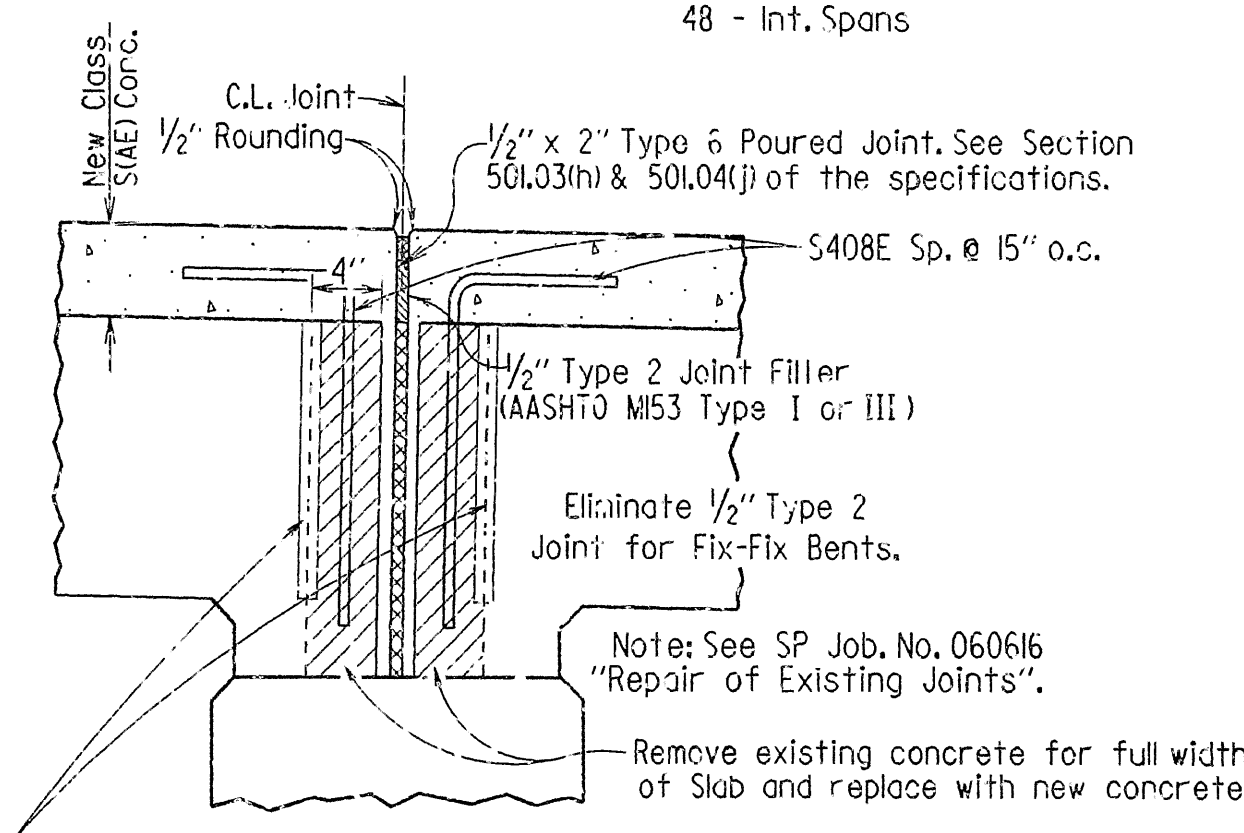
Dead Load: 283 psf (includes 22 psf future wearing surface)

Live Load: 0.174 Wheels/Ft. of width plus 30% Impact

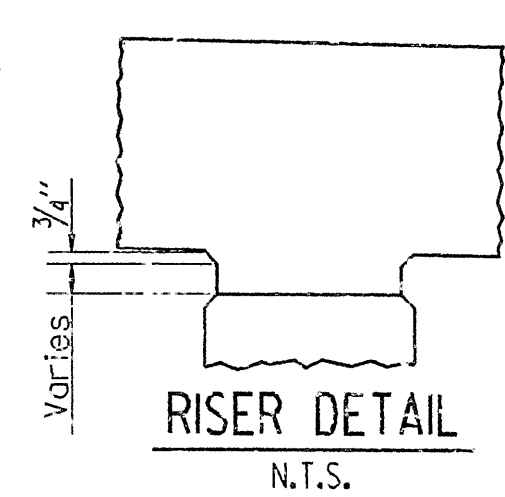
For additional information, see: Layout.



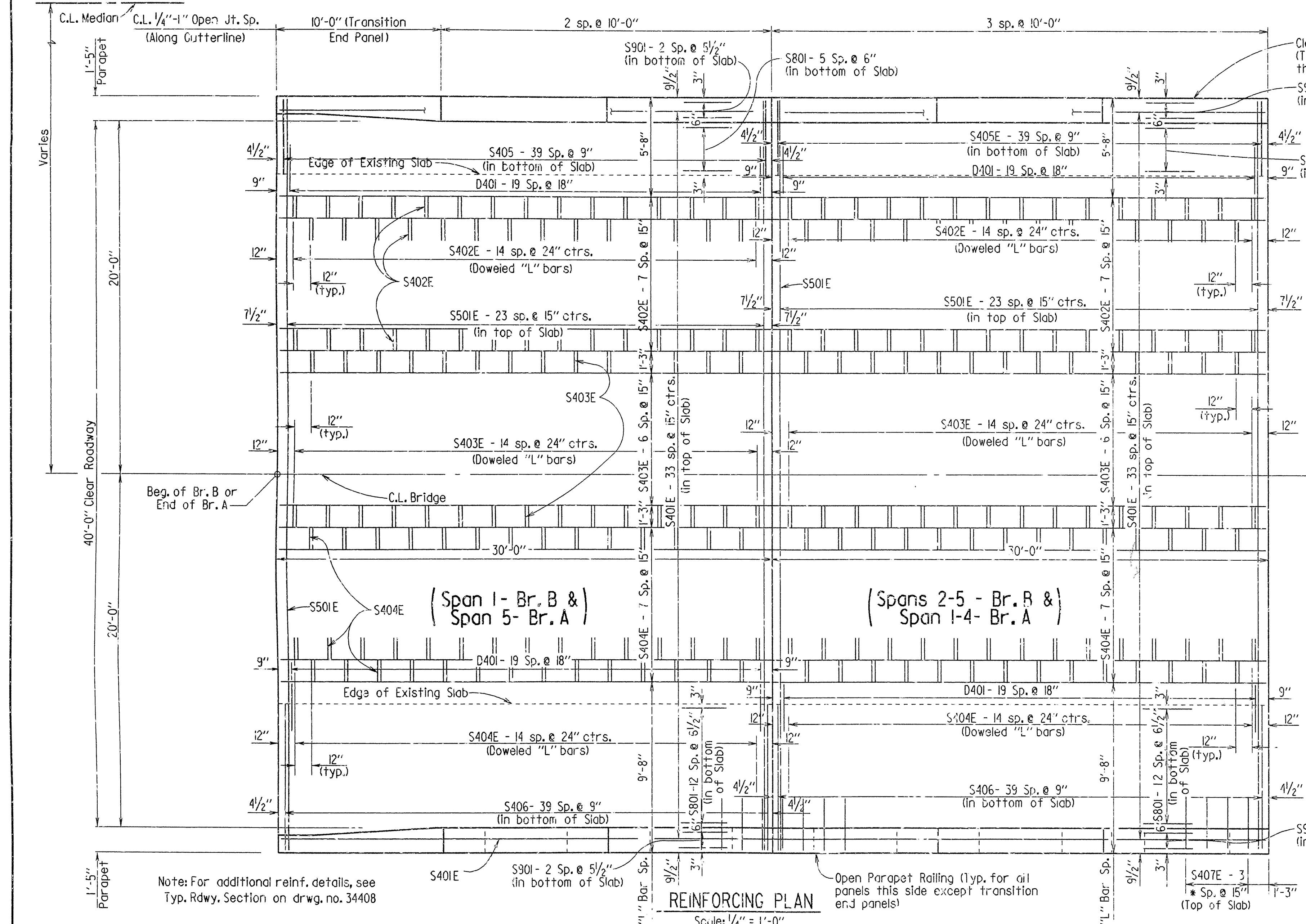
Note: Vertical curve corrections not included.

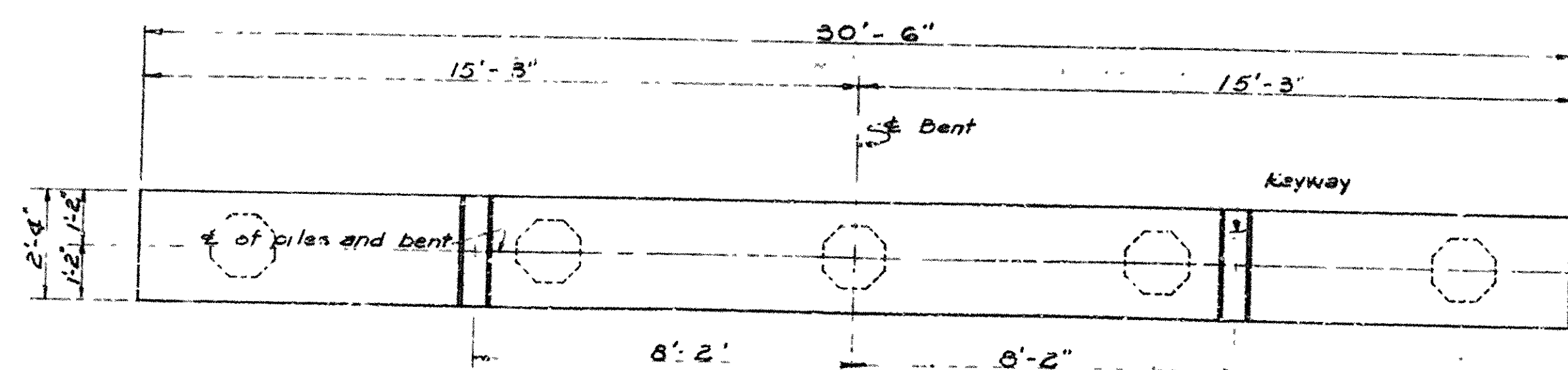


Drill holes of sufficient size and number for expansive grout to break out portion as shown. A jack hammer may be used to remove the portion after it has been broken by the expansive grout from the slab.

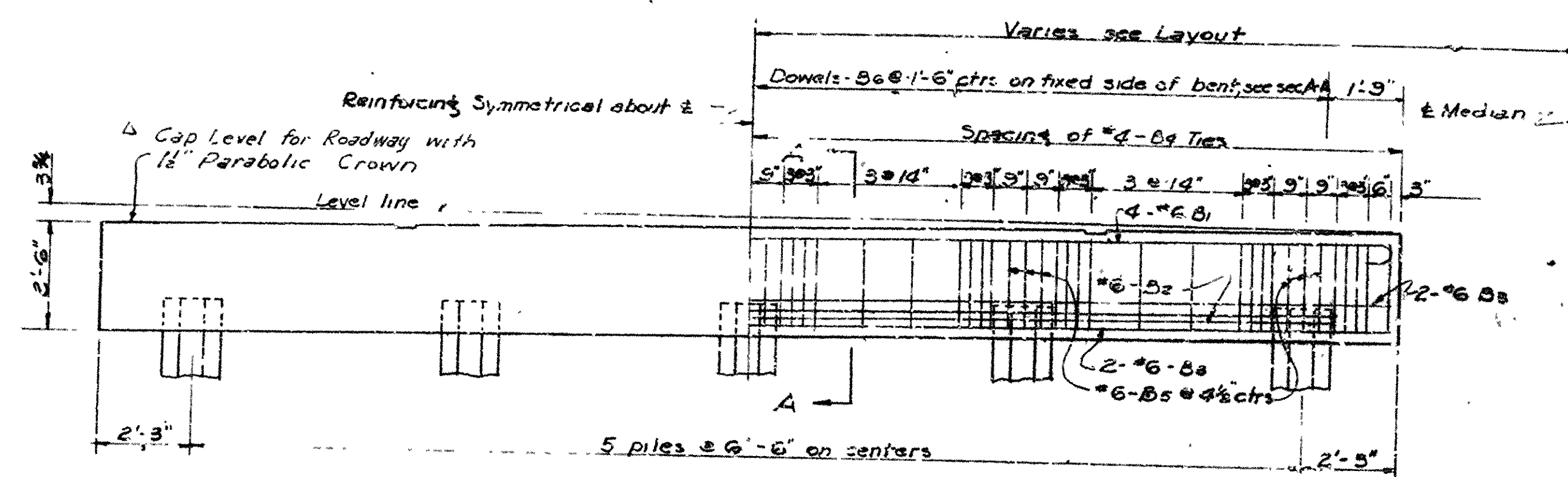


*Typ. each end of span open parapet only.

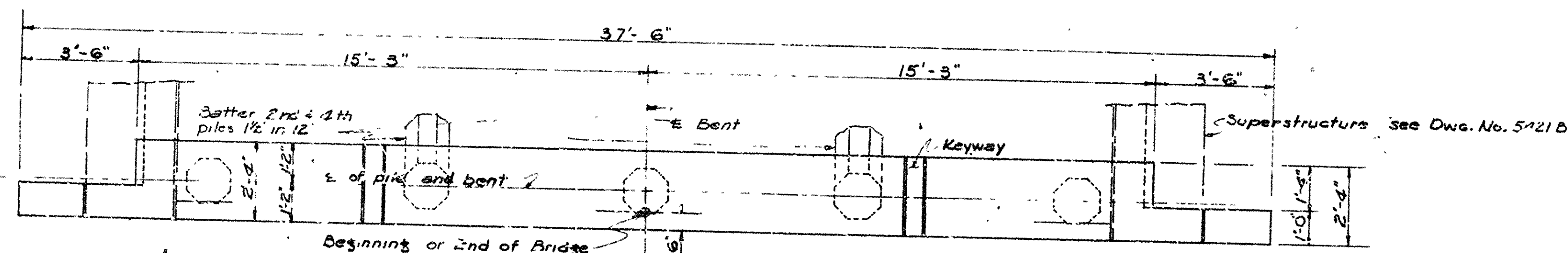




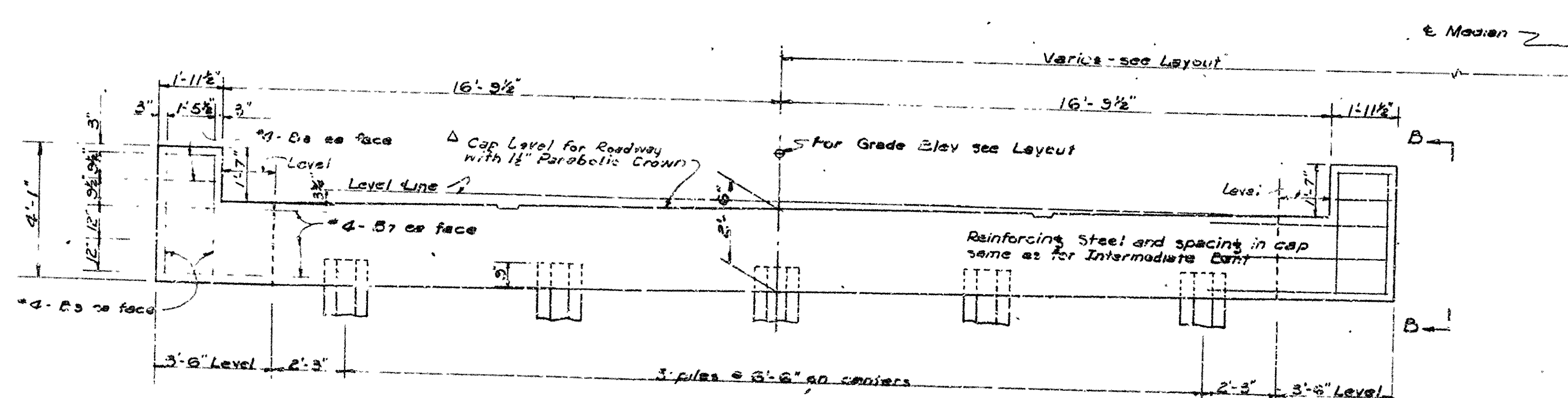
PLAN OF INTERMEDIATE SENT



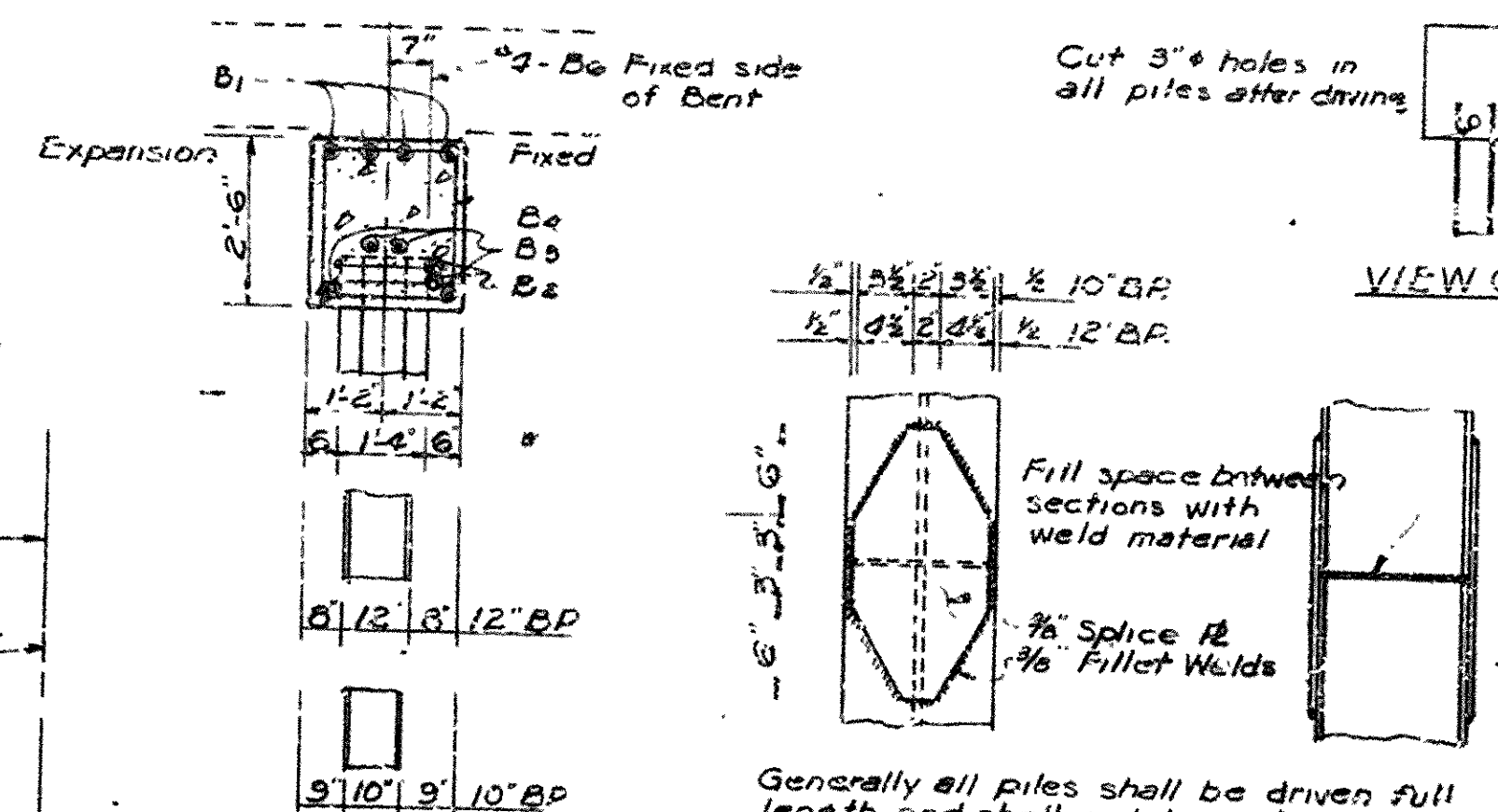
ELEVATION OF INTERMEDIATE BENT



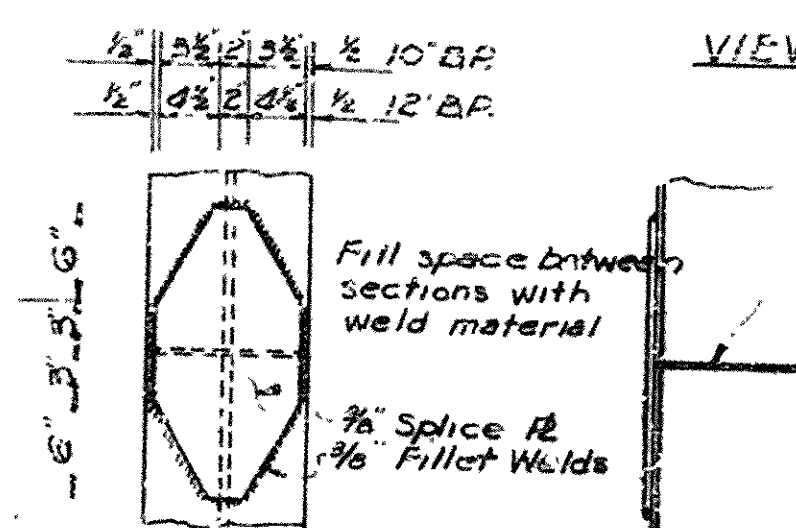
PLAN OF END BENT

ELEVATION OF END BENT (BACK FACE)

NOTE: Reverse crown when the median is on the left.

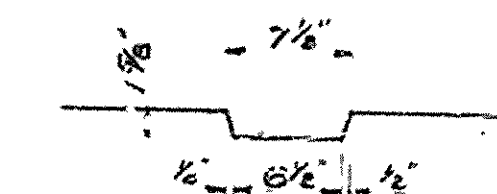


SECTION A-A



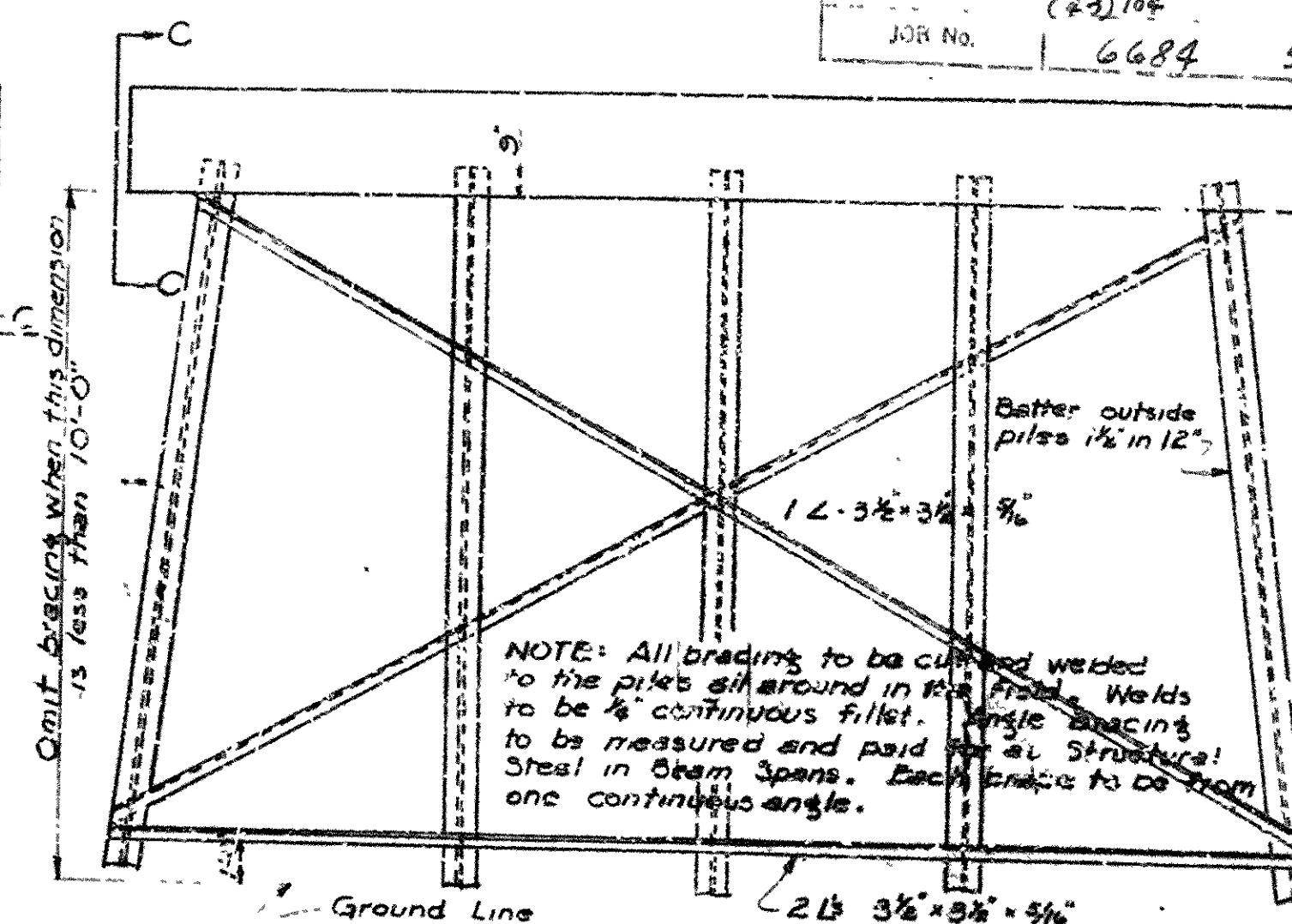
STEEL SPLICE DETAILS

Scale 1" = 1'-0"



DETAIL OF KEYWAY

Scale: 1" = 1'-0"



TYPICAL INTERMEDIATE BENT - STEEL PILES

No Scale

GENERAL NOTES

All concrete to be Class S and shall be poured in the dry. All exposed corners to be chamfered $\frac{3}{8}$ " unless otherwise noted.
Reinforcing steel to be deformed bars of intermediate grade unless otherwise noted by Special Provisions. Shop lists and bending diagrams are to be submitted for approval before fabrication is begun.
All piling shall be driven to a minimum capacity of 55 tons per pile.
Piling shall be either 10" H-42, 12" H-55 steel bearing piles or $\frac{1}{2}$ " octagonal precast concrete piles as shown on the layout.
Volume occupied by embedded pile heads will not be included in the pay quantities of concrete caps.
For Details of Standard 30'-0" RC. Slab Spans see Drawing No. SDZ16
SPECIFICATIONS: Arkansas State Highway Commission Standard
Specifications for Highway Construction, Edition of 1959.

BAR LIST PER BENT

MARK	SIZE	NO. PER BENT		LENGTH		BENDING DIAGRAM
		END	INT			
B1	"6	4	4	3'-6"	3ft	
B2	"6	4	4	3'-6"		
B3	"6	4	4	30'-1"		
B4	"4	50	50	8'-11"		
B5	"6	15	15	6'-8"	Straight	
B6	"4	-	30 Pcs. Ho 18 Pcs. Bar	2'-6"		
B7	"4	12	-	3'-0"		
B8	"4	8	-	1'-8"		
B9	"4	8	-	3'-9"		

Dimensions are to centers of bars

DETAILS OF
STANDARD PILE BENTS
FOR STD. 30'-0" R.C. SLAB SPANS

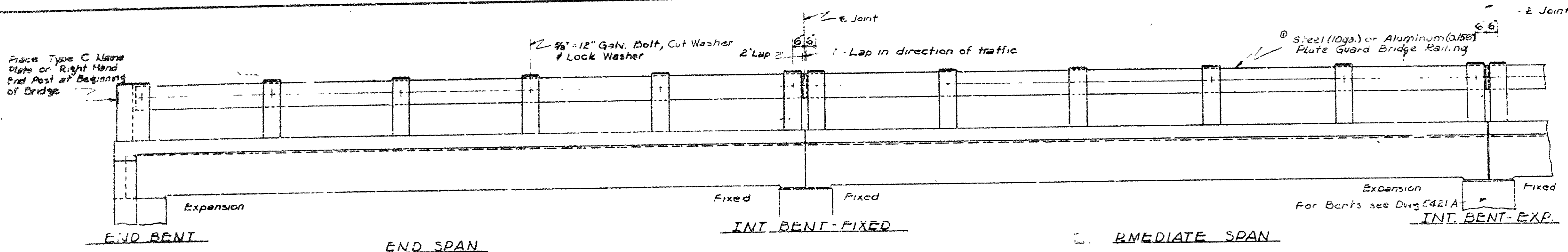
28'-0" CLEAR ROADWAY 2 CURBS @ 1'-6"

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

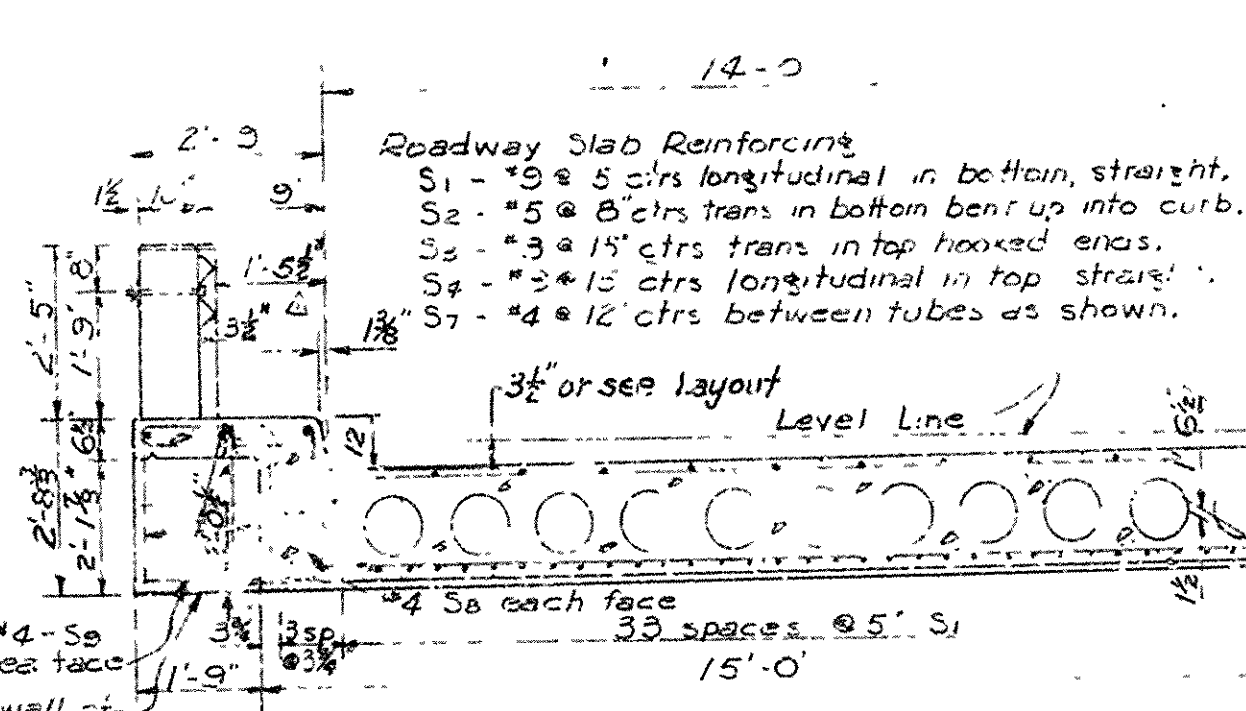
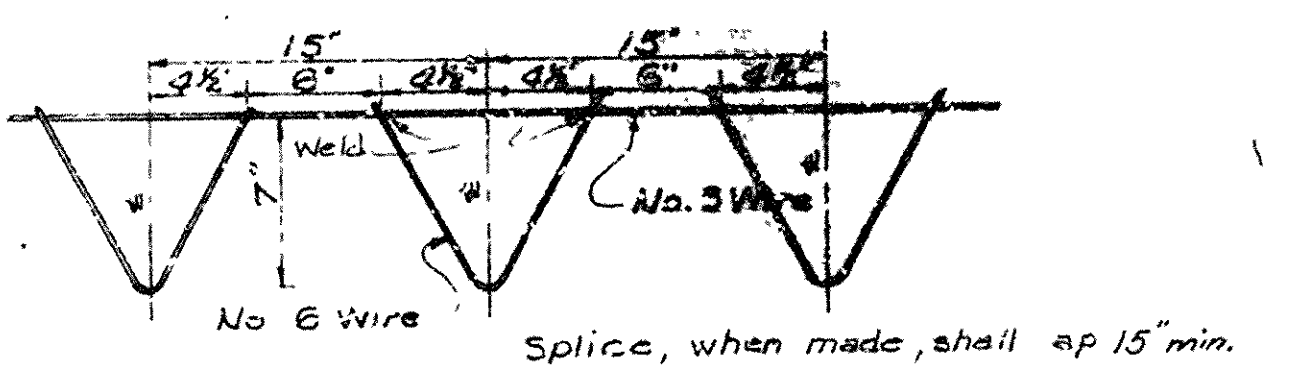
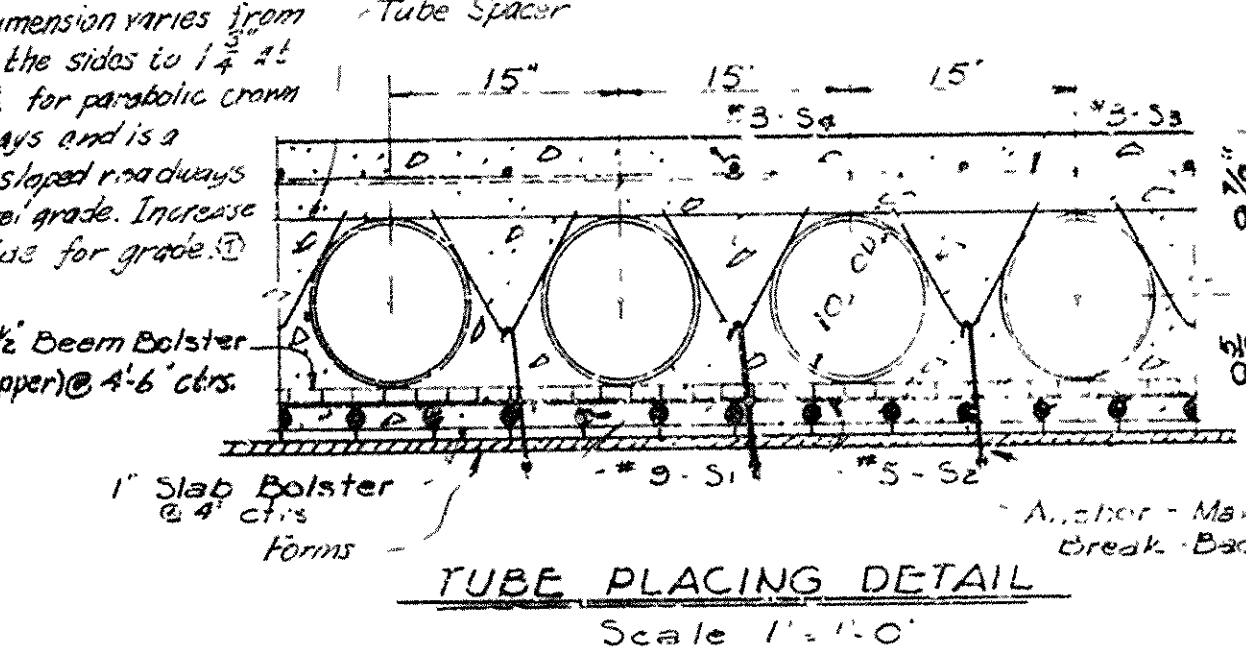
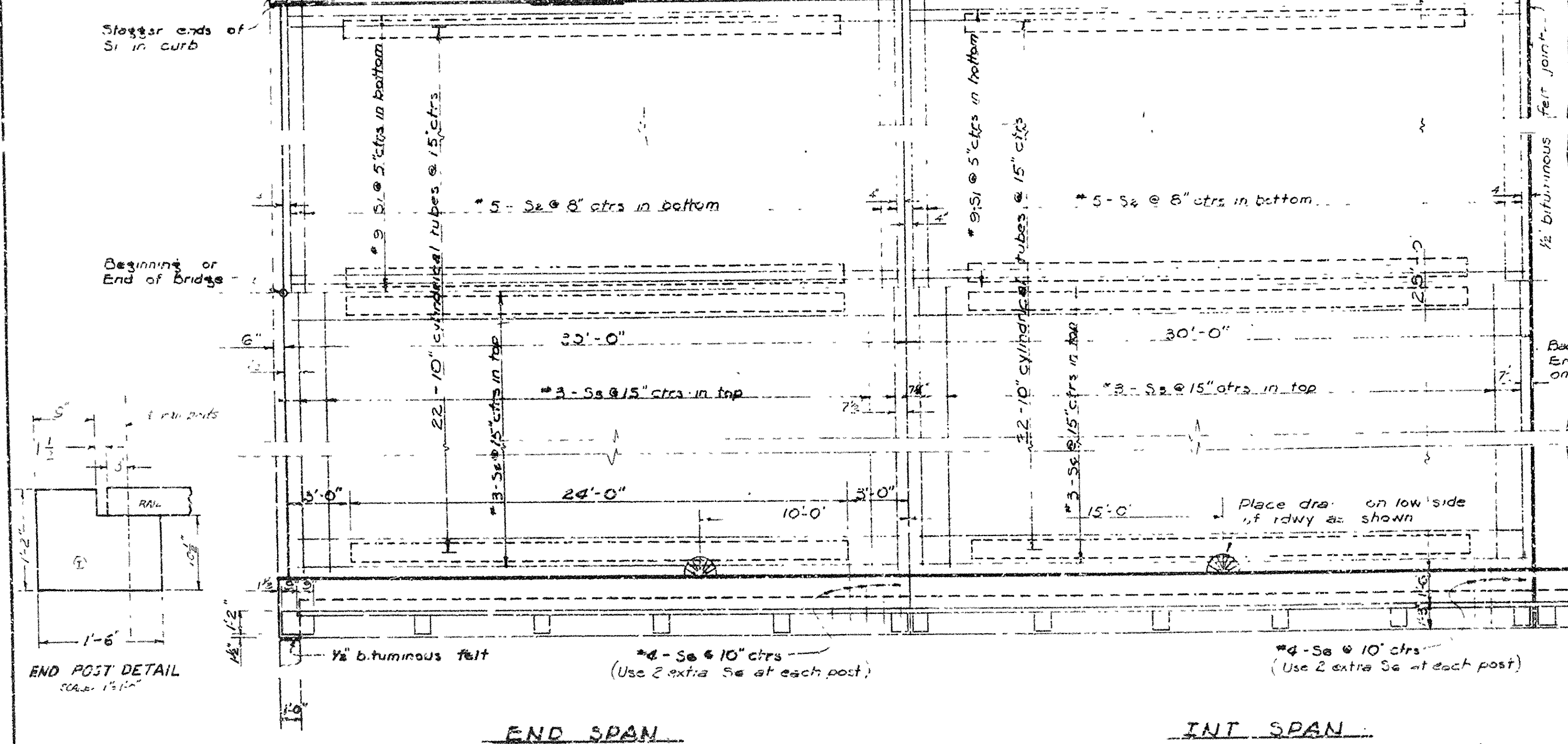
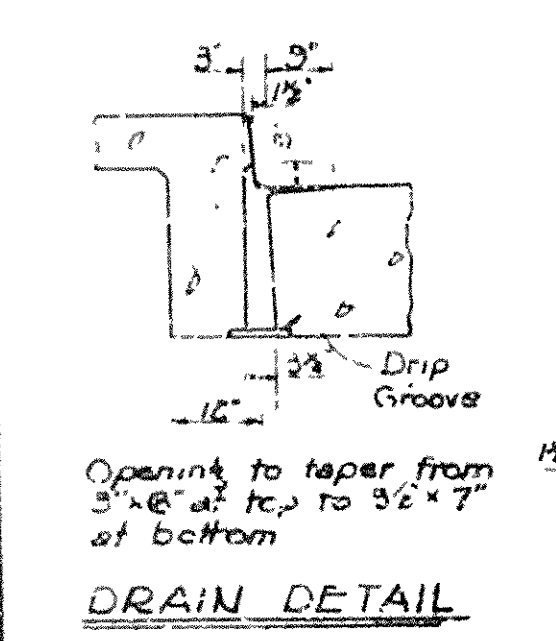
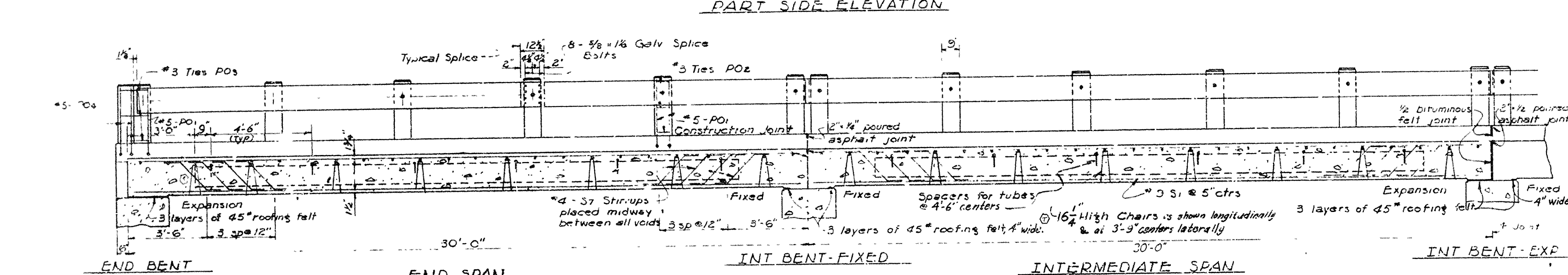
DRAWN BY: hus DATE: 7-16-57
 TRACED BY: _____ DATE: _____ SCALE: 3/8" = 1'-0"
 CHECKED BY: GM DATED: 4-16-59 Except as noted
 BRIDGE NO. _____ DRAWING NO. 5421A
 FILE # 5421A 10023A

NO.	DATE	BY	REVISION	YEAR	SHEET	TOTAL SHEETS
1	10/1/63	J. H. B.		1963	1	1



DESIGN SPECIFICATIONS
Design Live Loading: HS-20 and Special
Load distribution to steel: 182 ft. wheel
Unit Stresses: Class S Concrete 1200 psi
Reinforcing Steel: 27,000 psi

GENERAL NOTES
All concrete to be Class S. All reinforcement to be channeled 1/2 inch unless otherwise noted.
Reinforcing steel to be deformed bars. Bending diagrams must be submitted and approved before fabrication is begun.
All cylindrical tubes used to form voids shall be moisture protected, laminated type construction, minimum thickness 0.225, and shall be furnished complete with end closures.
All reinforcing steel and filler tubes shall be accurately located in the forms and firmly held in place by means of steel wire supports and spacers for tubes of sufficient size and number to prevent displacement during the course of construction, but in no case of lesser design than that shown.
Wire supports for reinforcing bars will be paid for directly but will be considered subsidiary to the item of Reinforcing Steel.
Tubes for forming voids and wire supports and spacers for tubes will not be paid for directly but will be considered subsidiary to the item of Class S Concrete.
Shop lists and diagrams of wire supports and spacers for tubes shall be submitted for approval before fabrication is begun.
Roofing felt, bituminous felt and asphalt joints shall be measured and paid for as Class S Concrete.
Steel or Aluminum Plate Guard Bridge Railing shall be the type shown or an equivalent rigid type as approved by the Engineer. The full including posts and fastenings shall be paid for at the unit price bid per linear foot for "Steel" or "Aluminum" Plate Guard Bridge Railing.
SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1953.

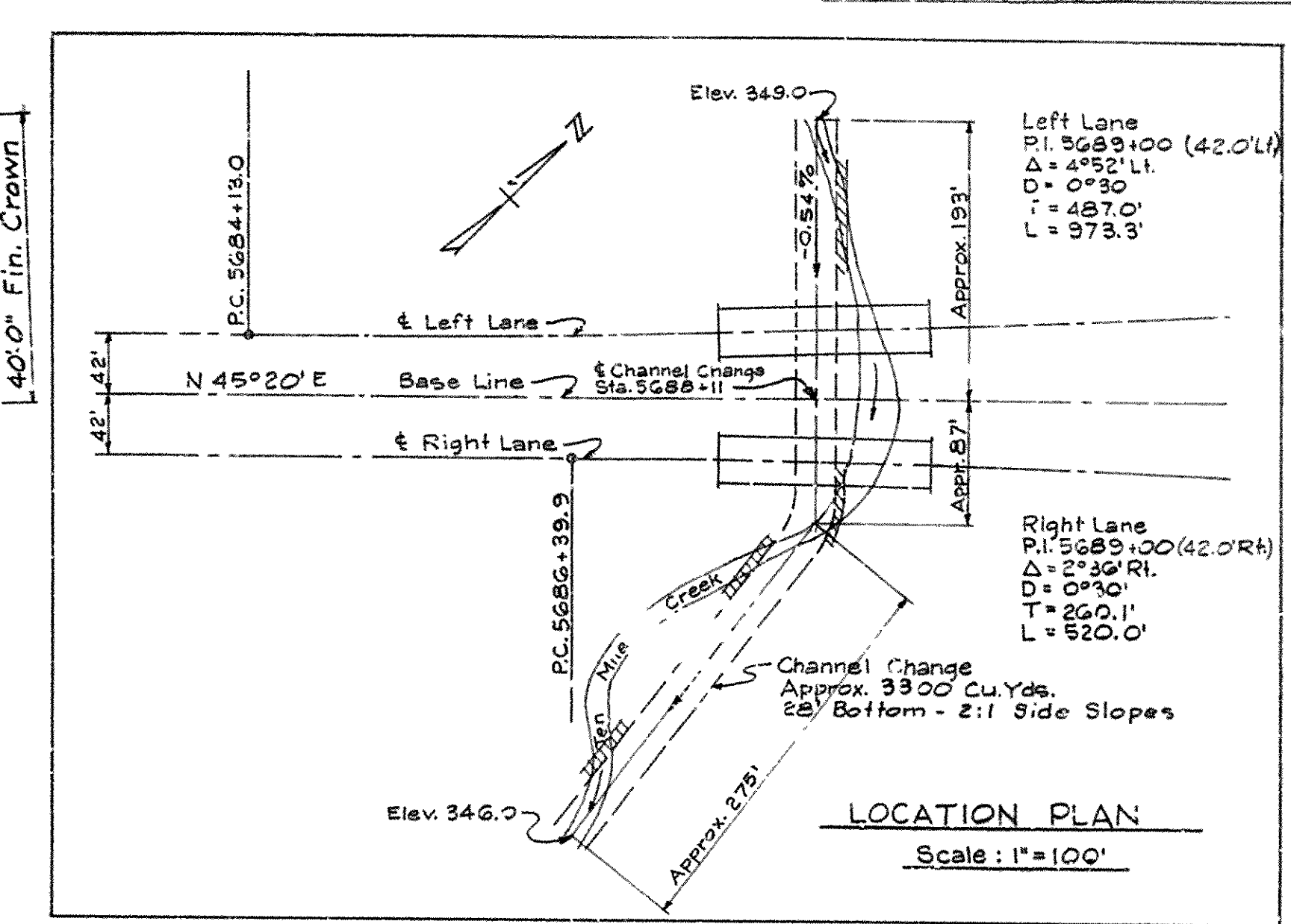
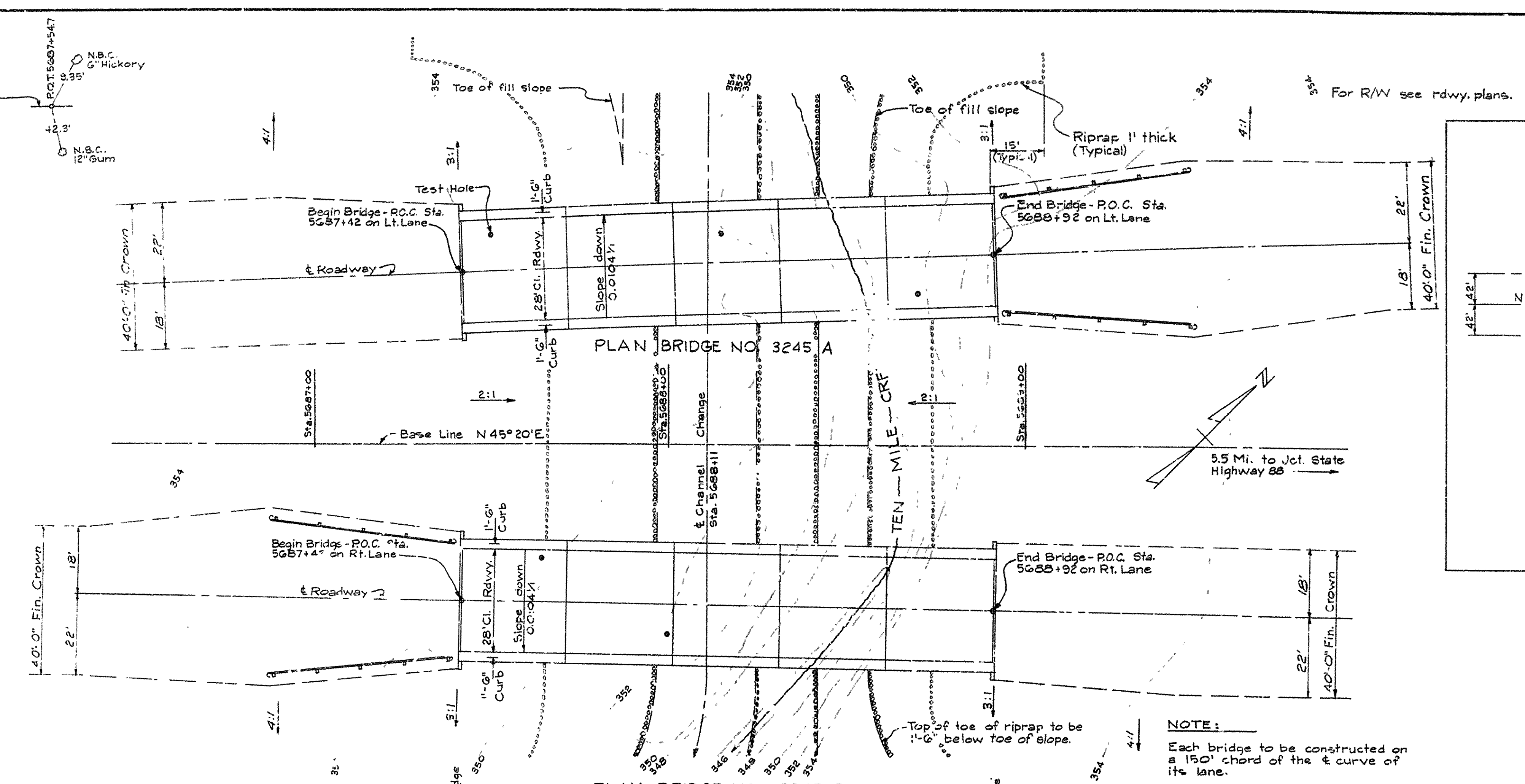


BAR LIST PER SPAN

Mark	Size	No. Bars	Length	Notes
S1	#9	72	29'-7"	Str
S2	#5	45	33'-9"	Str
S3	#3	24	30'-7"	Str
S4	#3	23	29'-7"	Str
S5	#4	8	30'-1"	Str
S6	#4	8	29'-7"	Str
S7	#4	94	7'-8"	Str
S8	#4	160	3'-1"	Str
S9	#4	12	2'-5"	Str
S10	#4	12	2'-5"	Str
PO1	#5	22	5'-10"	Str
PO2	#3	30	96	Str
PO3	#3	6	4'-7"	Str
PO4	#5	4	6'-1"	Str

DETAILS OF STANDARD 30'-0" R.C. SLAB SPANS (WITH VOIDS)
8'-0" CLEAR SPAN CURBS 1'-6"
ARKANSAS STATE HIGHWAY COMMISSION
BRIDGE NO. 5421A
DRAWING NO. 5421A

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	1-32-2(43)104		36	271
JOB No.	6684	36			



GENERAL NOTES

B.M. Nail in side 18" Gum & Sta. 5685+33. Elev. 352.29'

All piling shall be 12 BP 53# steel bearing piles, driven to refusal or to a minimum depth of two feet into the material designated as hard blue shale on the boring logs with a minimum bearing capacity of 35 tons per pile.

Lengths of piling shown are assumed for estimating quantities only. Actual lengths to be determined in the field. Order lengths shown. Cut-off or build-up, if necessary, to be paid for in accordance with Section 804 of the Specifications. All piling to be driven after embankment is in place.

For details of superstructure see Drawing No. 5421 B. For details of substructure see Drawing No. 5421 A & 5422 E.

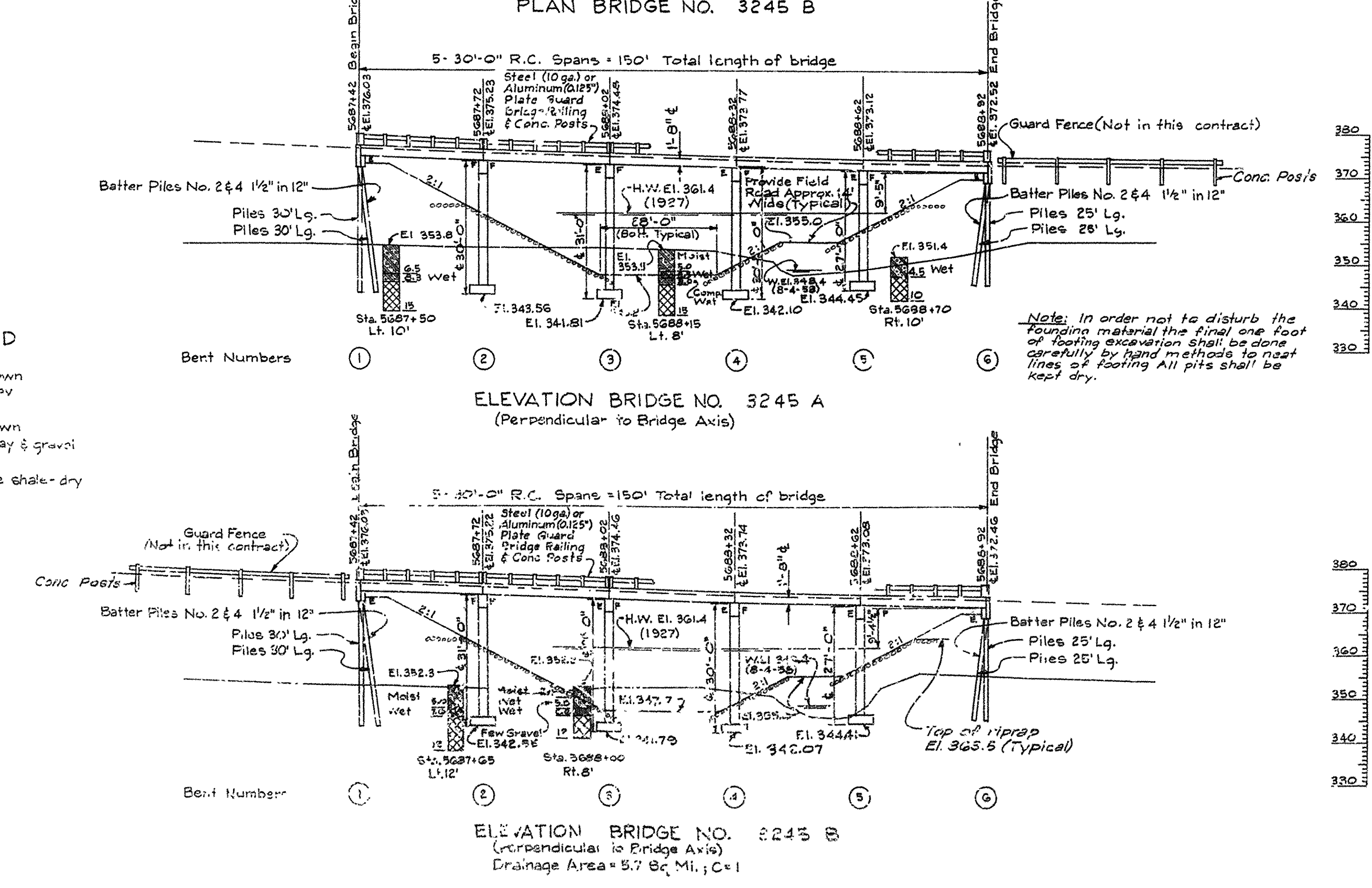
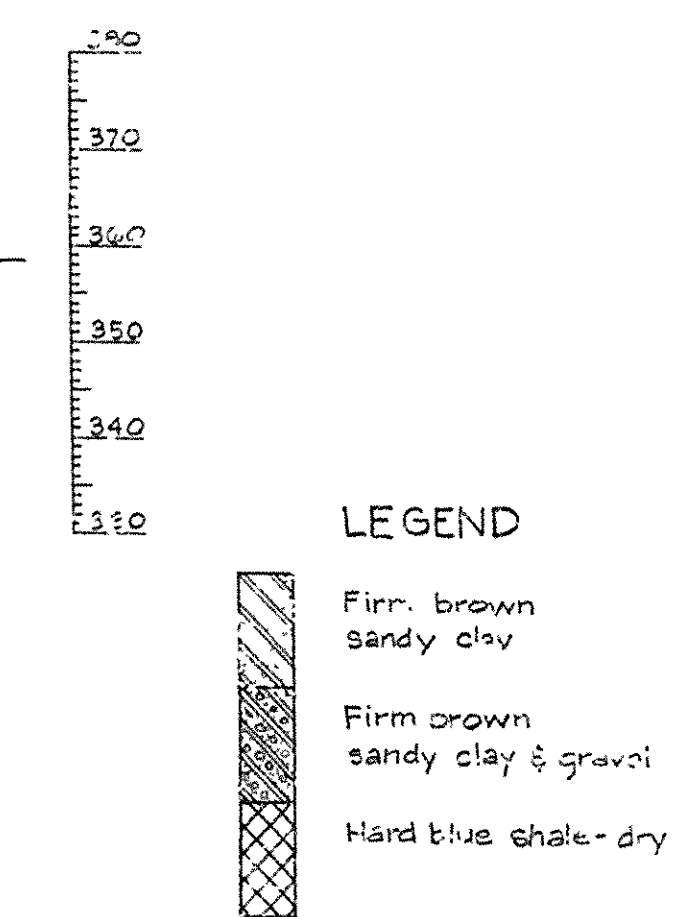
Specifications - Arkansas State Highway Commission Standard Specifications for Highway Construction, adopted December 9, 1957.

Loading - H20-S16 AASHTO 1957 and Special Interstate Loading of 2-24,000# axles, 4' centers.

Stresses -

Class A Concrete (n=15)	840 p.s.i.
Class B Concrete (n=10)	1200 p.s.i.
Reinforcing Steel	20,000 p.s.i.

Foundation Pressure: 5100 p.s.f. DL+LL+Earth



LAYOUT OF BRIDGES
OVER TEN MILE CREEK
NINE MILE CREEK HWY. 70 INTERCHANGE
SALINE COUNTY
INT. ROUTE 30 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DATE: 9-5-58
SCALE: 1" = 20'

Revised 4-21-60 - Guard Fence - R.L.C.

BRIDGE NO. 3245-A & 3245-B DRAWING NO. 10023