

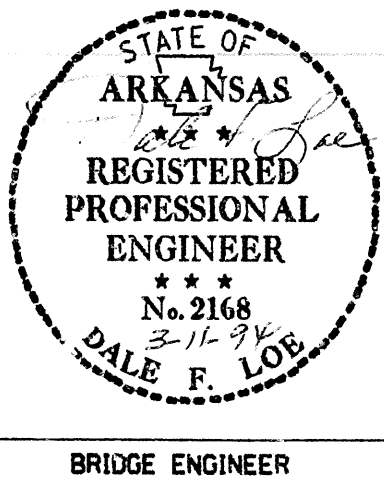
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3-11-94	3-11-94			6	ARK.			
				JOB NO.		004985	16	84
				① 6557, 6558, 6559 QUANTITIES				34128

SCHEDULE OF BRIDGE QUANTITIES FOR JOB NO. 004985

BRIDGE NO.	CODE NO.	NAME	PLATE TITLE	UNIT OF STRUCTURE	ITEM NO.	205	205	205	603	801	802	SP & 802	803	SS & 804	812	816	816
					ITEM	REMOVAL OF EXISTING BRIDGE STRUCTURE (SITE NO. 1)	REMOVAL OF EXISTING BRIDGE STRUCTURE (SITE NO. 2)	REMOVAL OF EXISTING BRIDGE STRUCTURE (SITE NO. 3)	TEMPORARY BRIDGE STRUCTURE (20' ROADWAY WIDTH)	UNCLASSIFIED EXCAVATION FOR STRUCTURES-BRIDGE	CLASS S CONCRETE-BRIDGE	CLASS S(AE) CONCRETE-BRIDGE	BOILED LINSEED OIL	REINFORCING STEEL-BRIDGE (GRADE 60)	BRIDGE NAME PLATE (TYPE C)	FILTER BLANKET	DUMPED RIPRAP
					UNIT	LUMP SUM	LUMP SUM	LUMP SUM	LIN. FT.	CU. YD.	CU. YD.	CU. YD.	GAL.	LB.	EACH	SQ. YD.	CU. YD.
6557	X020	VACHE GRASSE CREEK															
			END BENT NOS. 1 & 4					182	47.23			6934	1	285	143		
			INT. BENT NOS. 2 & 3					105	38.27			6711					
			THREE 35' R.C. SLAB SPANS							303.40	9.2	32095					
			TOTAL FOR BRIDGE NO. 6557	1.0				287	85.50	303.40	9.2	45740	1	285	143		
6558	X020	VACHE GRASSE CREEK															
			END BENT NOS. 1 & 5					160	40.20			6012	1	177	88		
			INT. BENT NOS. 2 THRU 4					100	52.10			9297					
			FOUR 30' R.C. SLAB SPANS							275.90	10.4	35591					
			TOTAL FOR BRIDGE NO. 6558		1.0		62	260	92.30	275.90	10.4	50900	1	177	88		
6559	X021	FLAT ROCK CREEK															
			END BENT NOS. 1 & 5					245	51.30			6948	1	304	152		
			INT. BENT NOS. 2 THRU 4					152	66.60			10333					
			FOUR 35' R.C. DECK GIRDER SPANS							277.70	12.3	56779					
			TOTAL FOR BRIDGE NO. 6559			1.0	75	397	117.90	277.70	12.3	74060	1	304	152		
TOTALS FOR JOB NO. 004985					1.0	1.0	1.0	137	944	295.70	857.00	31.9	170700	3	766	383	

John Sage
DESIGN SECTION SUPERVISOR

△ Revised excavation quantities 3-11-94.KMG



SCHEDULE OF BRIDGE QUANTITIES
GREENWOOD - HWY. 22 BRS. & APPRS.
SEBASTIAN COUNTY
ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: RLW DATE: 3-31-93
CHECKED BY: JAC & JLB DATE: 3-11-94 SCALE: NONE
DESIGNED BY: DATE:
BRIDGE NO. 6557, 6558, 6559 DRAWING NO. 34128

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. REG. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		004985	22	84
				① 6557		LAYOUT		34125

BENCH MARK: Chiseled Square on S.W. Abutment 47' Right of C.L. Survey Sta. 79+18.00. Elev. 485.83.

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

FOOTINGS: Footings shall be set a minimum of 1'-6" into material designated as medium hard shale on the boring legend. 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 concrete bridge deck shall be given a tine finish as specified for final finishing in subsection 802.20 for Class 5 Bridge Roadway Surface Finish.

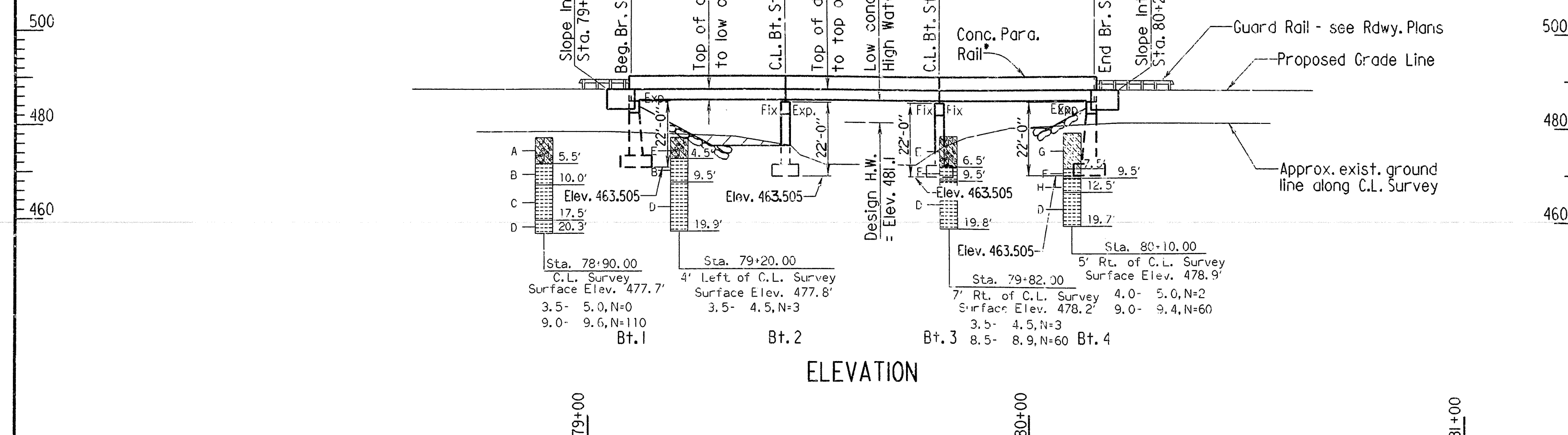
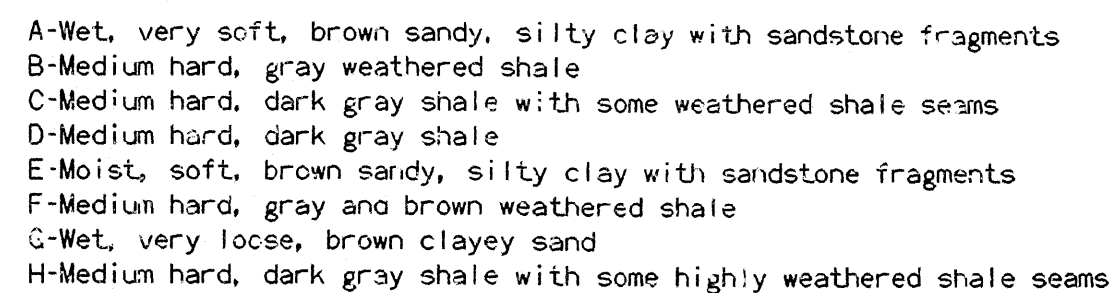
BOILED LINSEED OIL: Boiled linseed oil treatment shall be applied to the roadway surface and to the face and top of the concrete parapet rail.

DETAIL DRAWINGS: _____ DRAWING NO. _____

End Bents	34130	
Int. Bents	34131	
35' R.C.Slab Spans	34132 &	34133
Type C Bridge Name Plate	2389A	
Embankment Construction	1888A	
Dumped Riprap and Filter Blanket	1891F	
Computing Excavation for Structures	1891F	
Type F Approach Gutters	2016F	& 2017

EXISTING BRIDGE: Existing bridge No. M1701 (log mile 1.50) is 22' wide and 62' long and consists of a steel superstructure supported by a rubble masonry substructure. The existing bridge is located approximately 35 feet upstream from the proposed new bridge.

REMOVAL AND SALVAGE: After the new bridge is opened to traffic, the existing bridge (M1701) shall be removed in accordance with section 205 of the Standard Specifications. All material from the existing bridge shall become the property of the contractor.



Drainage Area = 6.5 sq. mi.

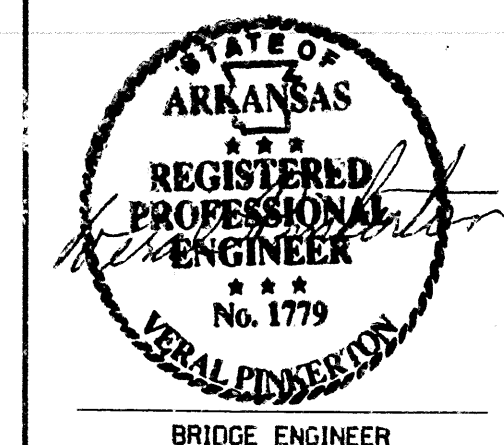
Drainage Area = 6.5 sq. mi.			NATURAL SURFACE ELEV.*	WATER SURFACE ELEV. WITH BACKWATER
FLOOD DESCRIPTION	FREQUENCY YEARS	DISCHARGE CFS	FEET	FEET
DESIGN	50	4690	481.1	483.8
BASE	100	5720	481.5	485.2
OVERTOPPING	400	8610	482.6	487.8
EXTREME	500	9100	482.8	

Remarks

^a Historical Highwater Elev. = 483.4

• Low Bridge Member Elev. = 485.5

* Unconstricted water surface elev. at proposed bridge location.

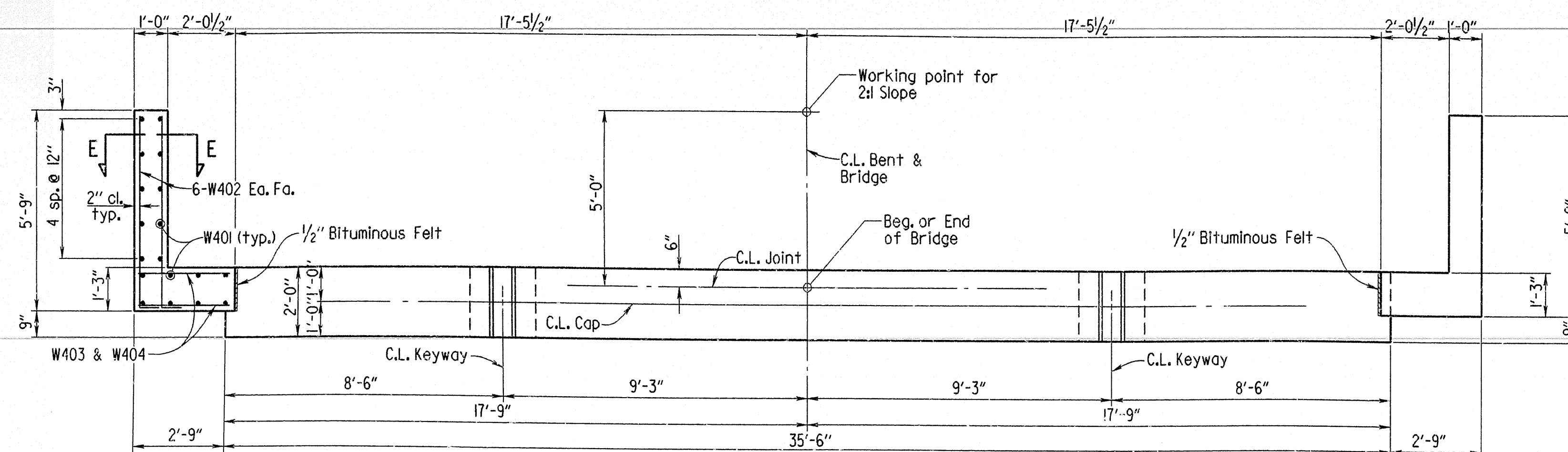


LAYOUT OF BRIDGE
(LOG MILE 1.50)
GREENWOOD - HWY. 22 BRS. & APPRS.
SEBASTIAN COUNTY

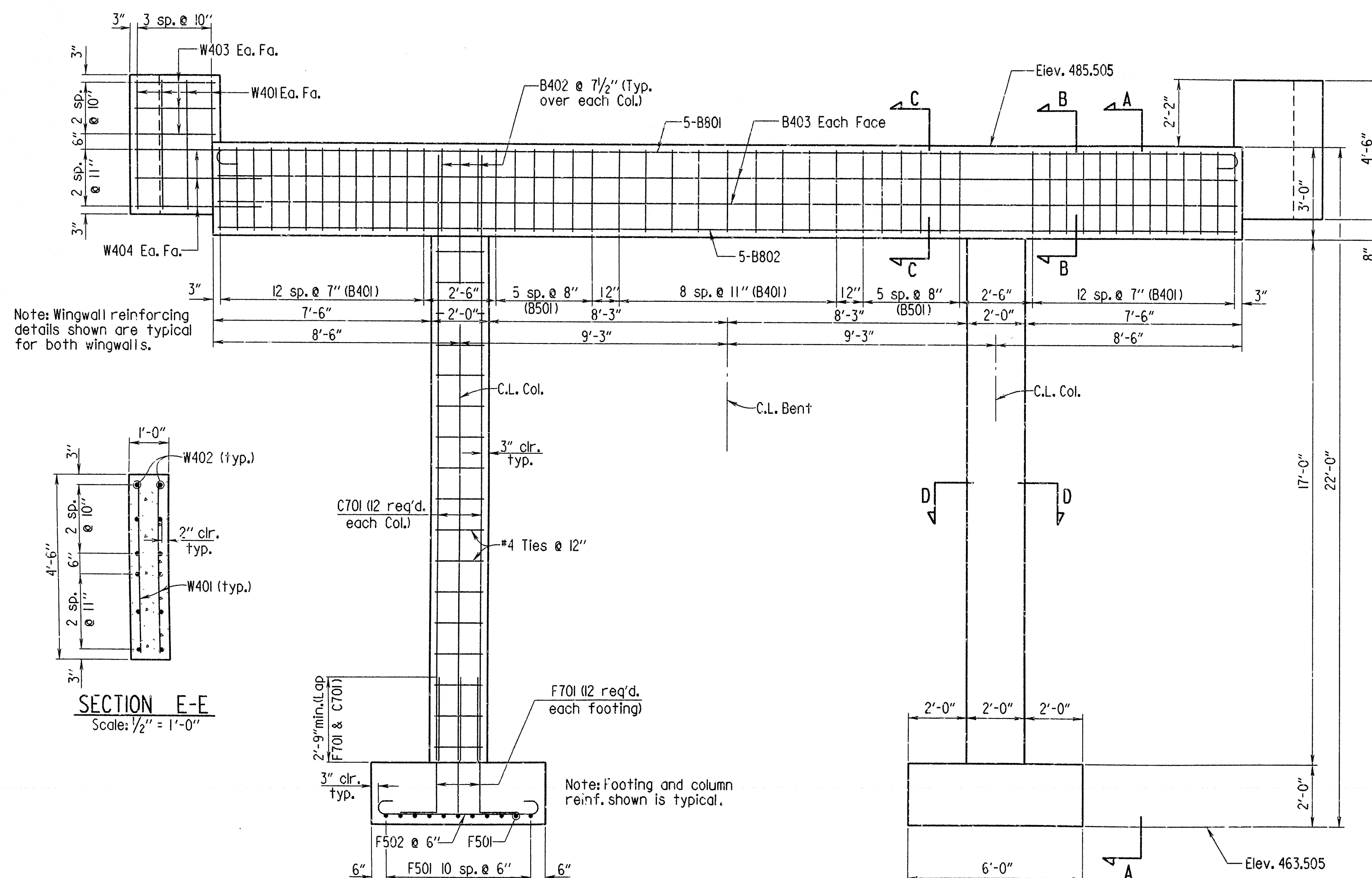
ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: 17 Aug 92
CHECKED BY: RJW DATE: 23 Jun 93 SCALE: 1" = 20'
DESIGNED BY: RLM DATE: 8-92
BRIDGE NO. 6557 DRAWING NO. 34129

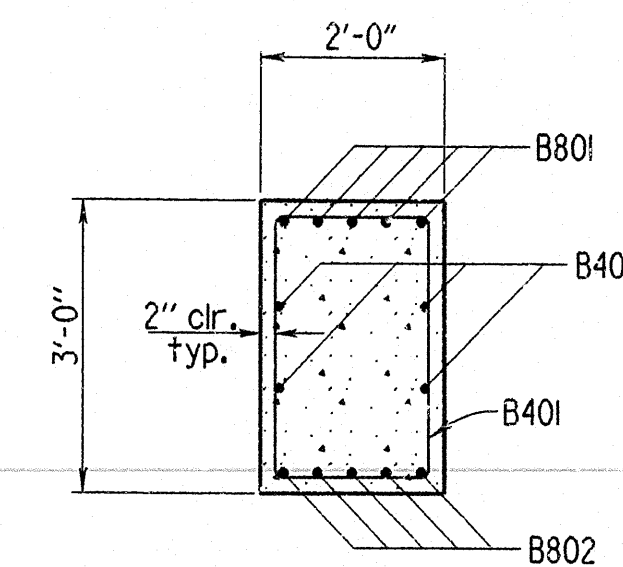
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				6	ARK.			
				JOB NO.		004985	23	84
				6557		BENT DTLS.		34130



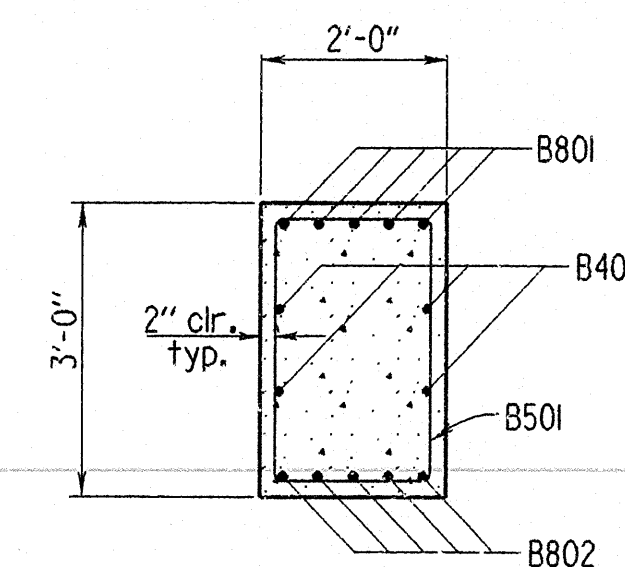
PLAN
Scale: 3/8" = 1'-0"



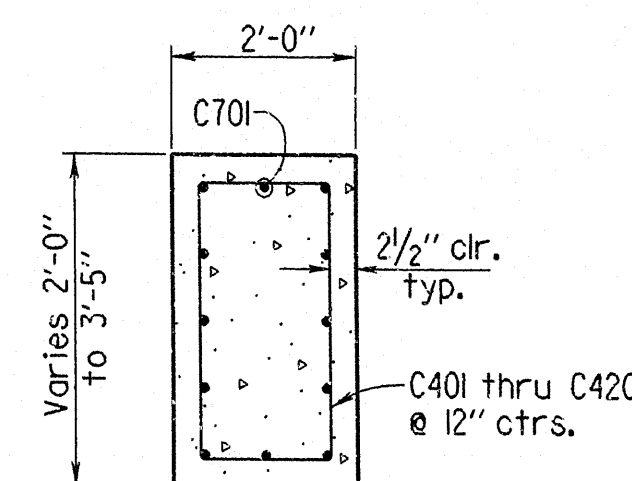
ELEVATION
Scale: 3/8" = 1'-0"
Note: View is looking back at Bent 1 and looking ahead at Bent 4.



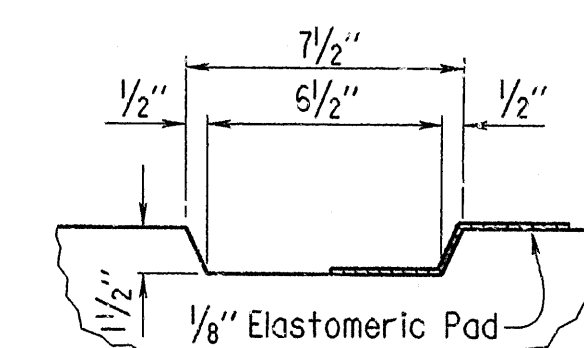
SECTION B-B
Scale: 1/2" = 1'-0"



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



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



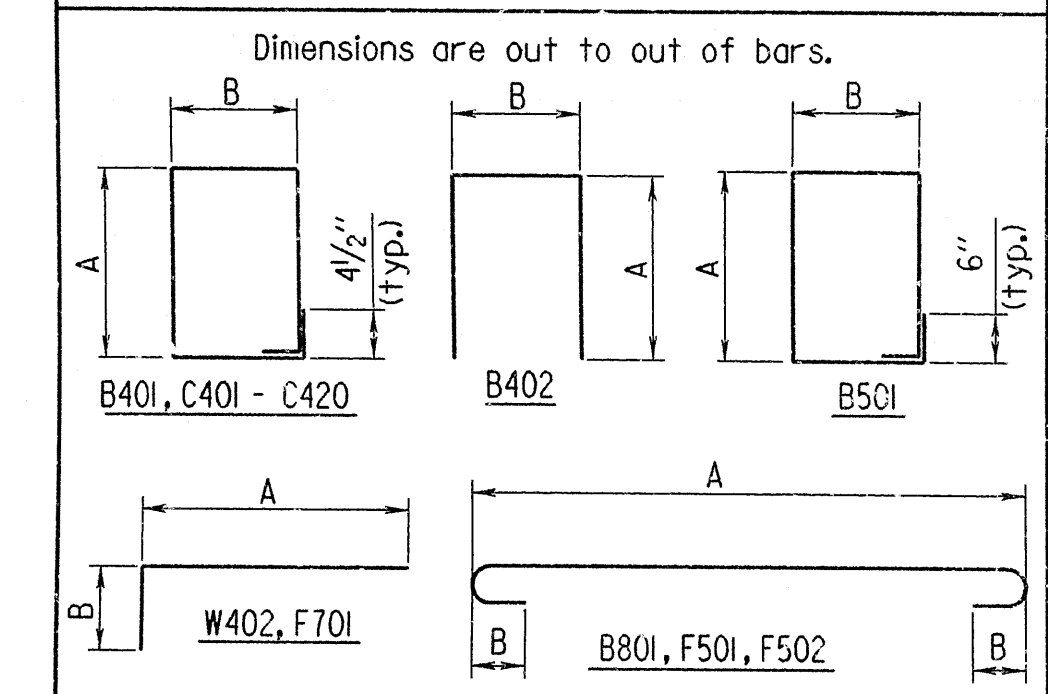
TYPICAL KEYWAY DETAIL
No Scale

Note:
1/8" Elastomeric Pad to be in full contact with Bent Cap surfaces when placing superstructure concrete.

BAR LIST (EACH BENT)

MARK	NO.	REQ'D.	LENGTH	'A'	'B'	P.D.
B401	35	9'-0"	2'-8"	1'-8"	2"	
B402	6	6'-10"	2'-8"	1'-8"	2"	
B403	4	35'-2"				Str.
B501	12	9'-2"	2'-8"	1'-8"	2 1/2"	
B801	5	37'-0"	35'-2"	8"	6"	
B802	5	35'-2"				Str.
W401	36	4'-2"				Str.
W402	24	6'-4"	5'-5"	1'-0"	3"	
W403	12	2'-8"				Str.
W404	12	4'-3"				Str.
C401 - C420	2 of each	Var. 9'-5" to 6'-3"	Var. 2'-11 1/2" to 1'-4 1/2"	1'-7"	2"	
C701	24	19'-8"				Str.
F501	22	7'-8"	6'-6"	5"	3 3/4"	
F502	26	6'-8"	5'-6"	5"	3 3/4"	
F701	24	5'-6"	4'-6"	1'-2"	5 1/4"	

BENDING DIAGRAMS



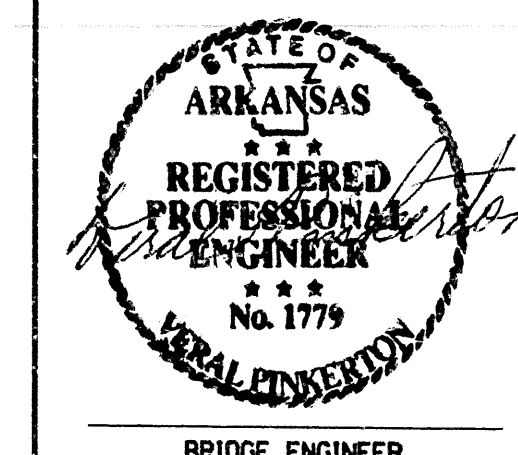
END BENT NOTES

All concrete shall be Class 'S' with a minimum 28 day compressive strength $f'_c = 3,500$ psi. Concrete shall be poured in the dry and 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.).

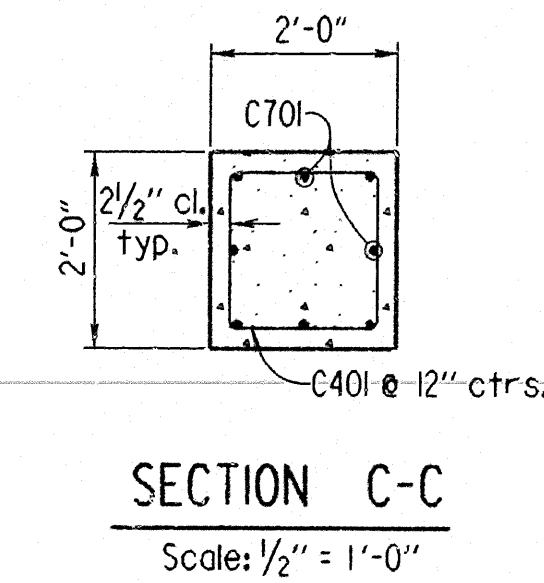
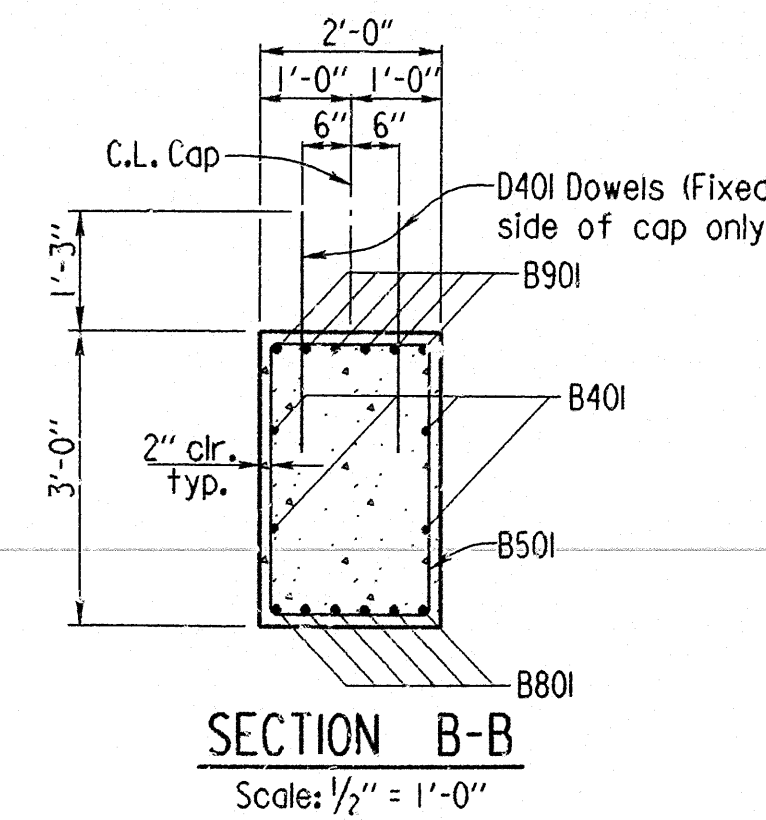
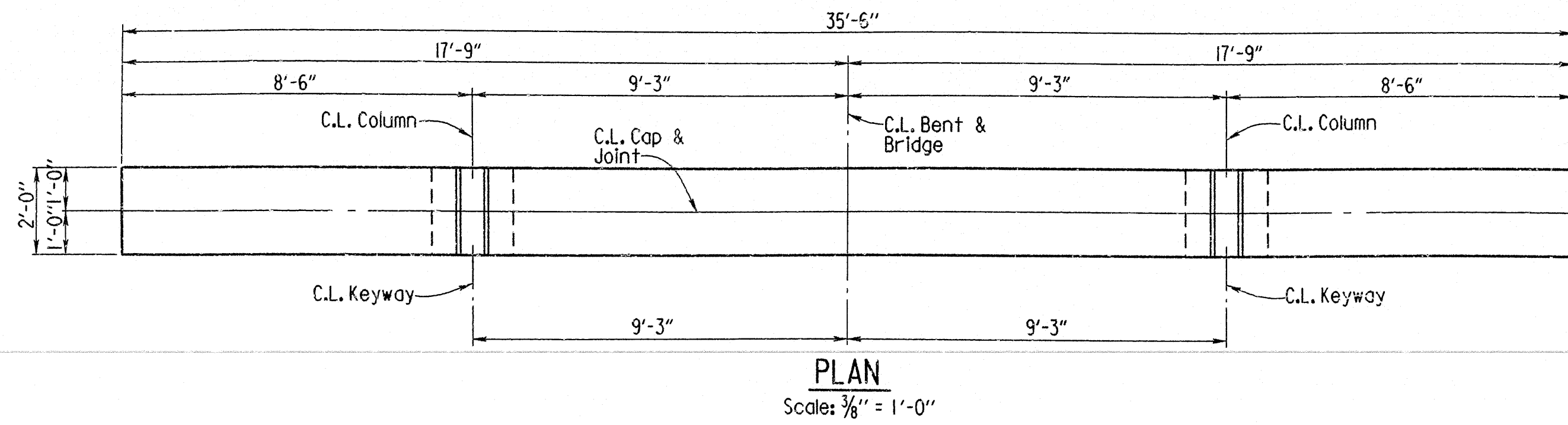
For additional information see layout.

DETAILS OF END BENT NOS. 1 AND 4

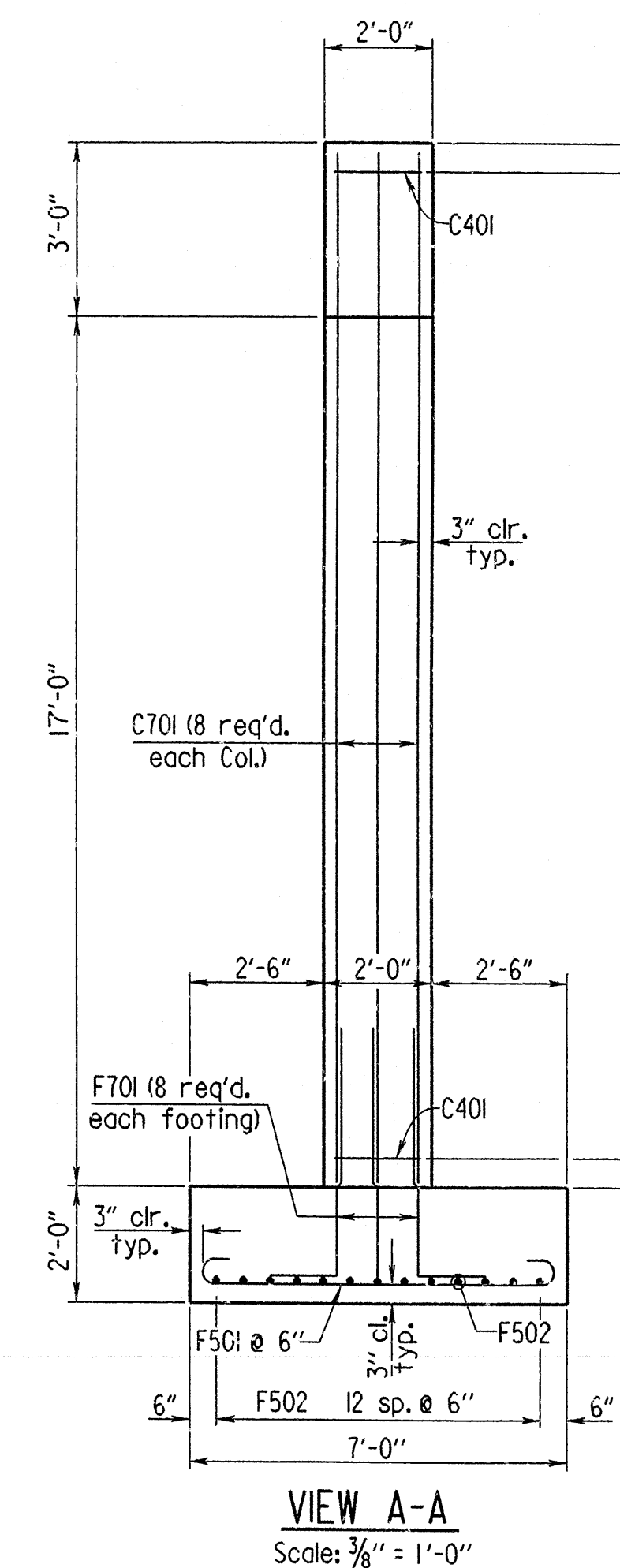
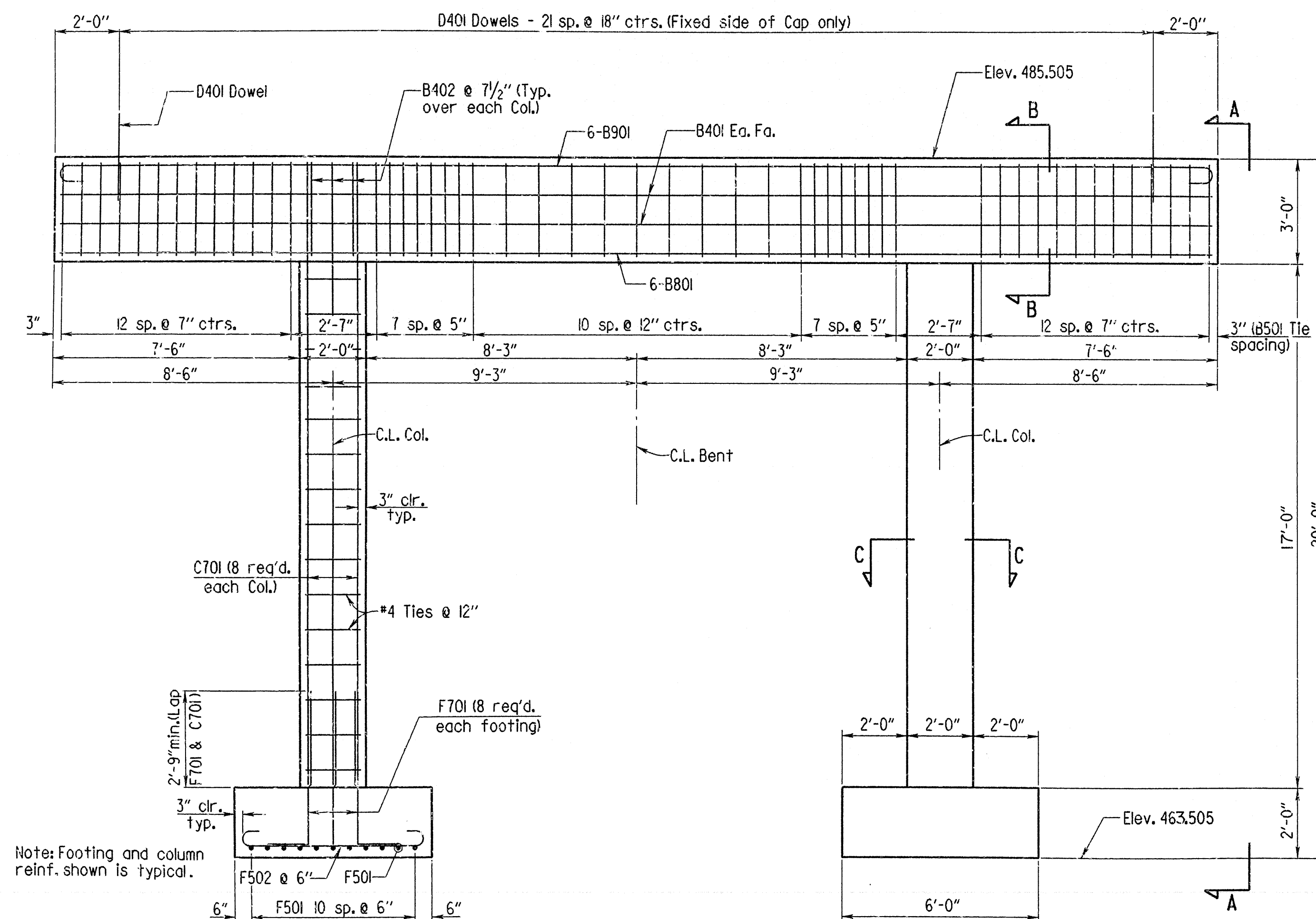


ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: KMG DATE: 30 Nov 92
CHECKED BY: RLV DATE: 12 Apr 93
DESIGNED BY: SB DATE: Sept 92
BRIDGE NO. 6557
DRAWING NO. 34130

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.		004985	24	84
				6557		BENT DTLS.		34131



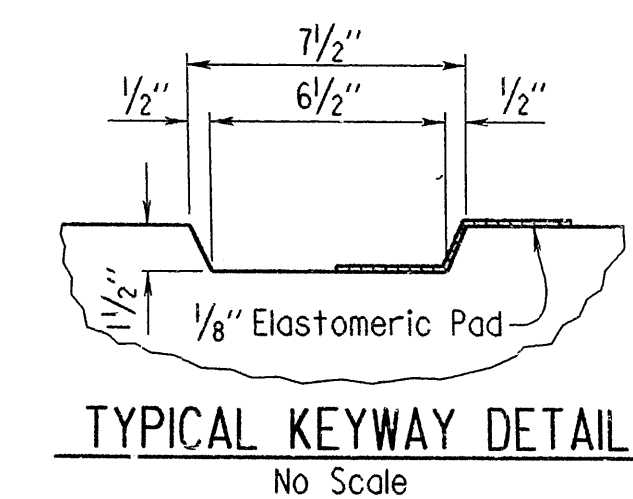
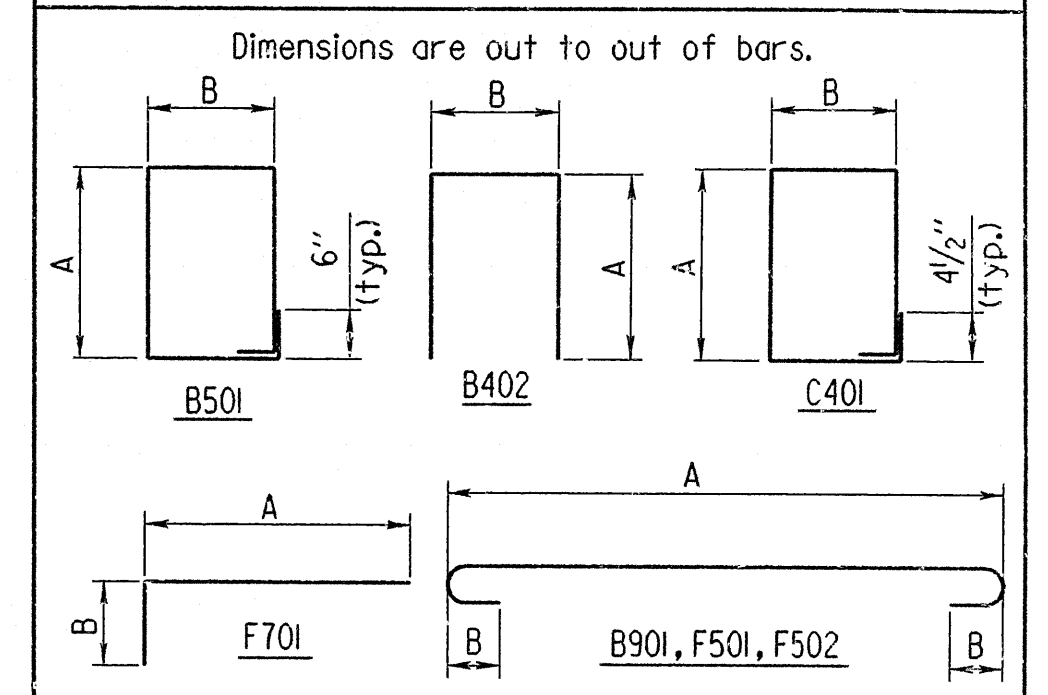
* 22 Req'd. for Fix-Exp. Bent
44 Req'd. for Fix-Fix Bent



BAR LIST (EACH BENT)

MARK	NO. REQ'D.	LENGTH	'A'	'B'	P.D.
B40I	4	35'-2"			Str.
B402	6	6'-10"	2'-8"	1'-8"	2"
B50I	51	9'-2"	2'-8"	1'-8"	2 1/2"
B80I	6	35'-2"			Str.
B90I	6	37'-8"	35'-2"	10"	9"
D40I	*	2'-6"			Str.
C40I	40	6'-8"	1'-7"	1'-7"	2"
C70I	16	19'-8"			Str.
F50I	22	7'-8"	6'-6"	5"	3 3/4"
F502	26	6'-8"	5'-6"	5"	3 3/4"
F70I	16	5'-6"	4'-6"	1'-2"	5 1/4"

BENDING DIAGRAMS



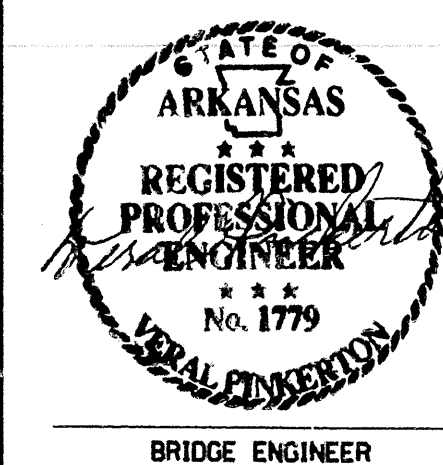
Note:
1/8" Elastomeric Pad to be in full contact with Bent Cap surfaces when placing superstructure concrete.

All concrete shall be Class "S" with a minimum 28 day compressive strength $f'_c = 3,500$ psi. Concrete shall be poured in the dry and 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.).

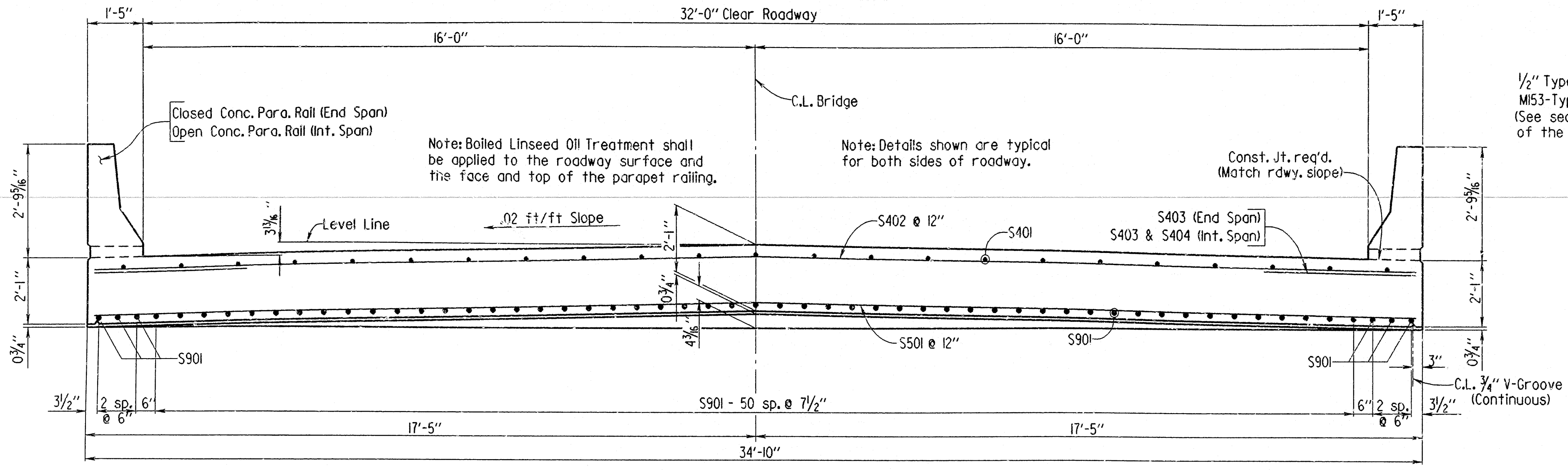
For additional information see layout.

DETAILS OF INT. BENT NOS. 2 AND 3

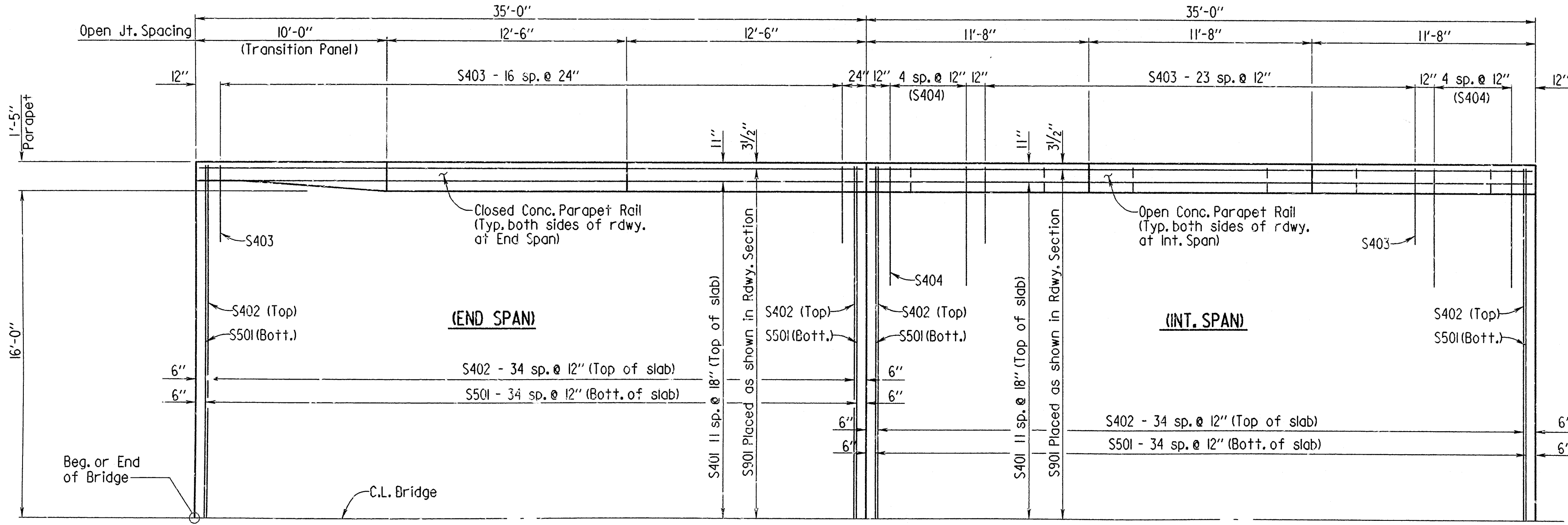


ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: KMG DATE: 19 Jan 93
CHECKED BY: RJW DATE: 12 Apr 93
DESIGNED BY: JLB DATE: Sept. 92
BRIDGE NO. 6557 DRAWING NO. 34131

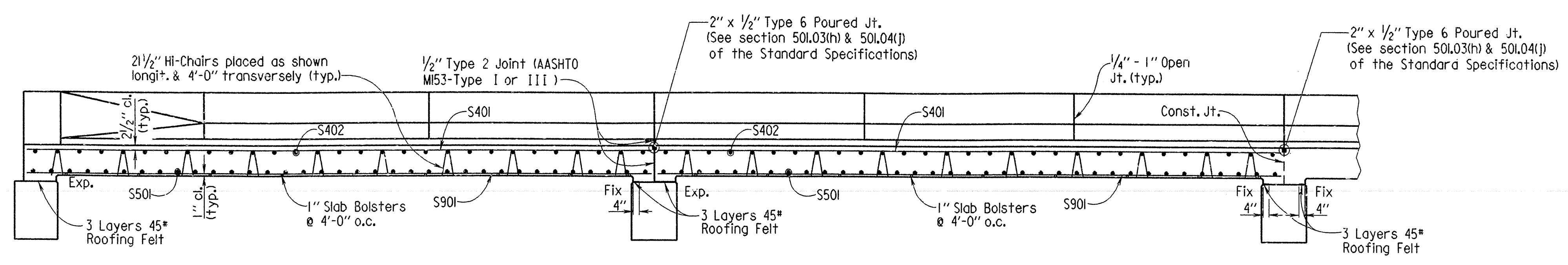
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				6	ARK.			
				JOB NO.		004985	25	84
				6557		SPAN DTLS.		34132



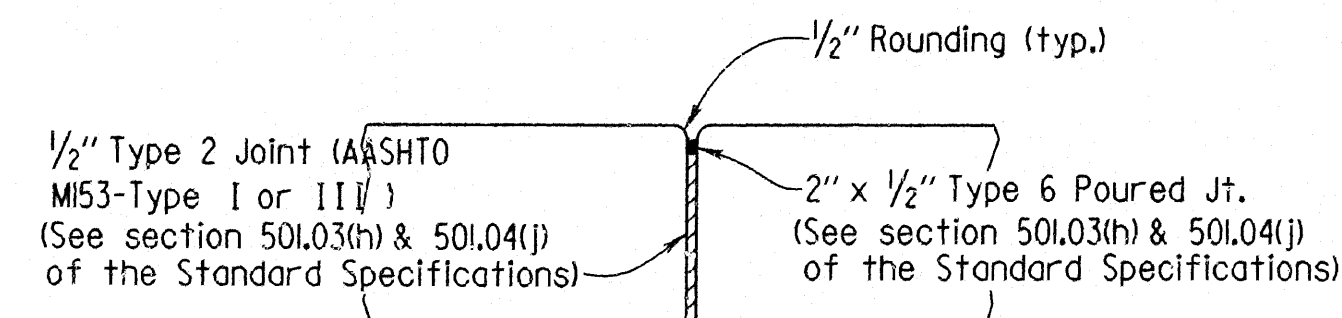
TYPICAL SECTION THRU ROADWAY
Scale: 1/2" = 1'-0"



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

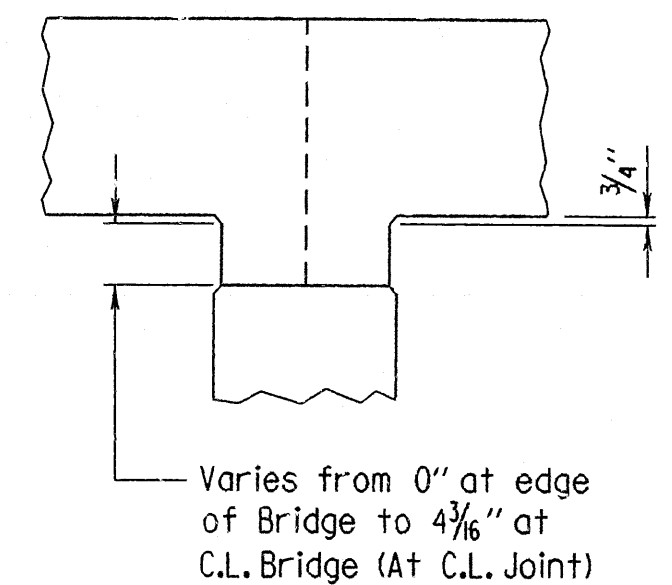


LONGITUDINAL SECTION ALONG C.L. BRIDGE
Scale: 1/4" = 1'-0"

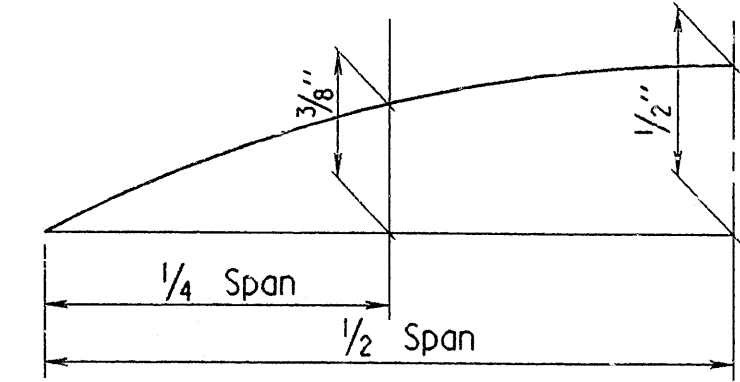


Note: All joints to be cleaned by sand blasting or other approved methods before pouring joint. Joint details shown are for expansion joints. Fixed joints are same except eliminate 1/2" Type 2 Joint.

TYPICAL SECTION THRU JOINT
No Scale



RISER DETAIL
No Scale



DEAD LOAD CAMBER DIAGRAM
No Scale

BAR LIST (PER SPAN)

MARK	NUMBER REQUIRED		LENGTH	P.D.
	END	INT.		
S401	23	23	34'-8"	Str.
S402	35	35	34'-6"	Str.
S403	34	48	3'-4"	Str.
S404	0	20	5'-0"	Str.
S501	35	35	34'-6"	Str.
S901	57	57	34'-8"	Str.
R401	8	0	8'-2"	2" *
R402	16	0	4'-4"	2" *
R403	8	0	8'-2"	2" *
R404	12	0	9'-8"	2" *
R405	52	60	6'-4"	2" *
R406	52	60	8'-2"	2" *
R407	0	42	5'-10"	2" *
R408	0	42	3'-2"	2" *
R409	24	0	12'-2"	Str.
R410	0	24	11'-4"	Str.
R601	14	0	9'-2"	4 1/2" *
R602	6	0	4'-10"	Str.
R603	0	30	11'-4"	Str.

*For Bending Diagrams, see drwg. no. 34133.

General Notes

All concrete to be Class (SAC). 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".

Roofing Felt, Bituminous Felt, Preformed Joint, Structural Steel, and Type 6 Poured Synthetic Polymer Joints shall be measured and paid for as "Class (SAC) Concrete".

Design Live Load: HS 20-44

Load Distribution to Slab: Dead Load - 358 psf; Live Load: 0.66 Wheels/Ft. of width plus 30% Impact.

**Includes 22 psf Future Wearing Surface.

For additional information, see Layout.

SLIP FORMING: An approved method of slip forming may be used. The contractor may submit her proposal and methods, prepared by a professional engineer, to the bridge engineer for approval. Approval must be obtained before slip forming work is begun. Payment will be based on plan quantities. Vertical joints and drainage slots may not be eliminated.

SHEET 1 OF 2
DETAILS OF
35'-0" R.C. SLAB SPANS

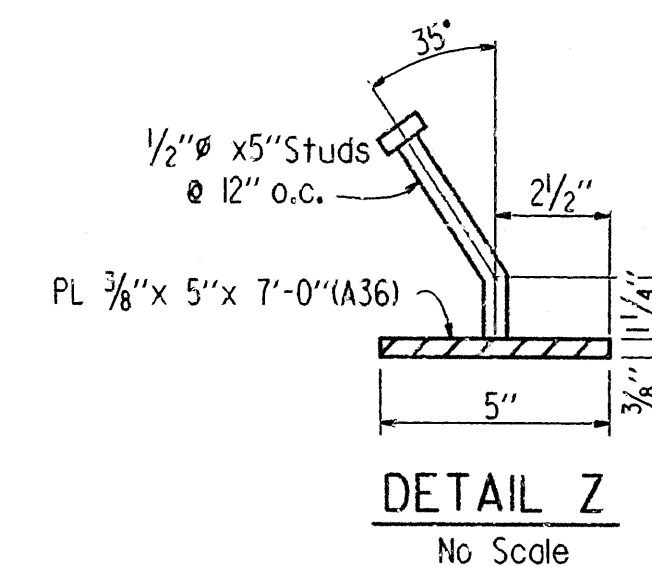
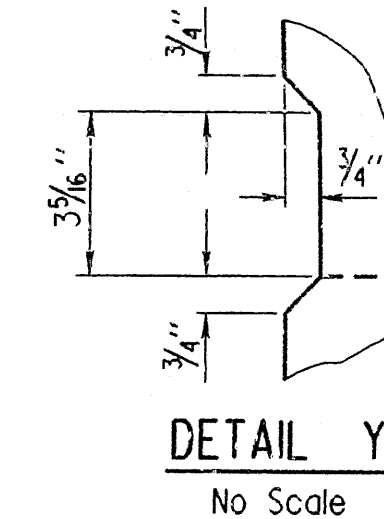
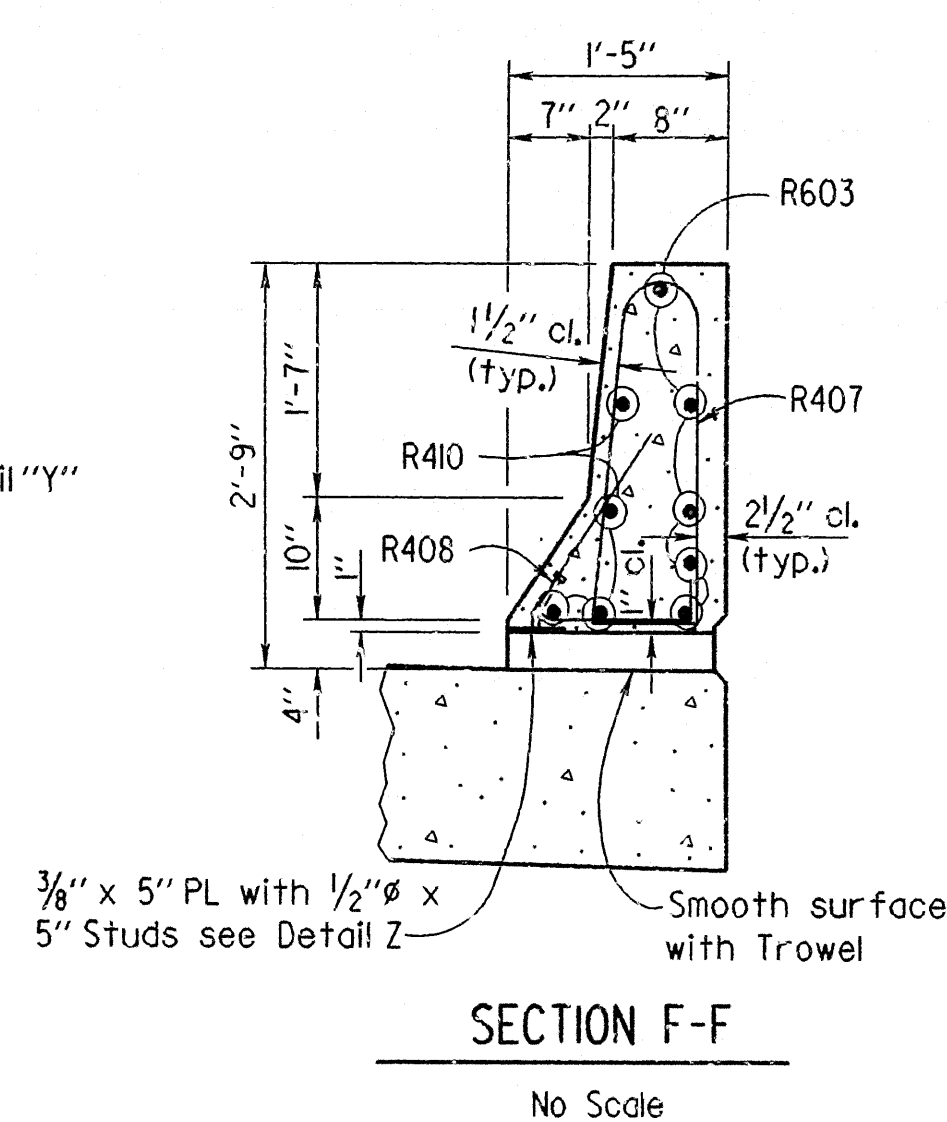
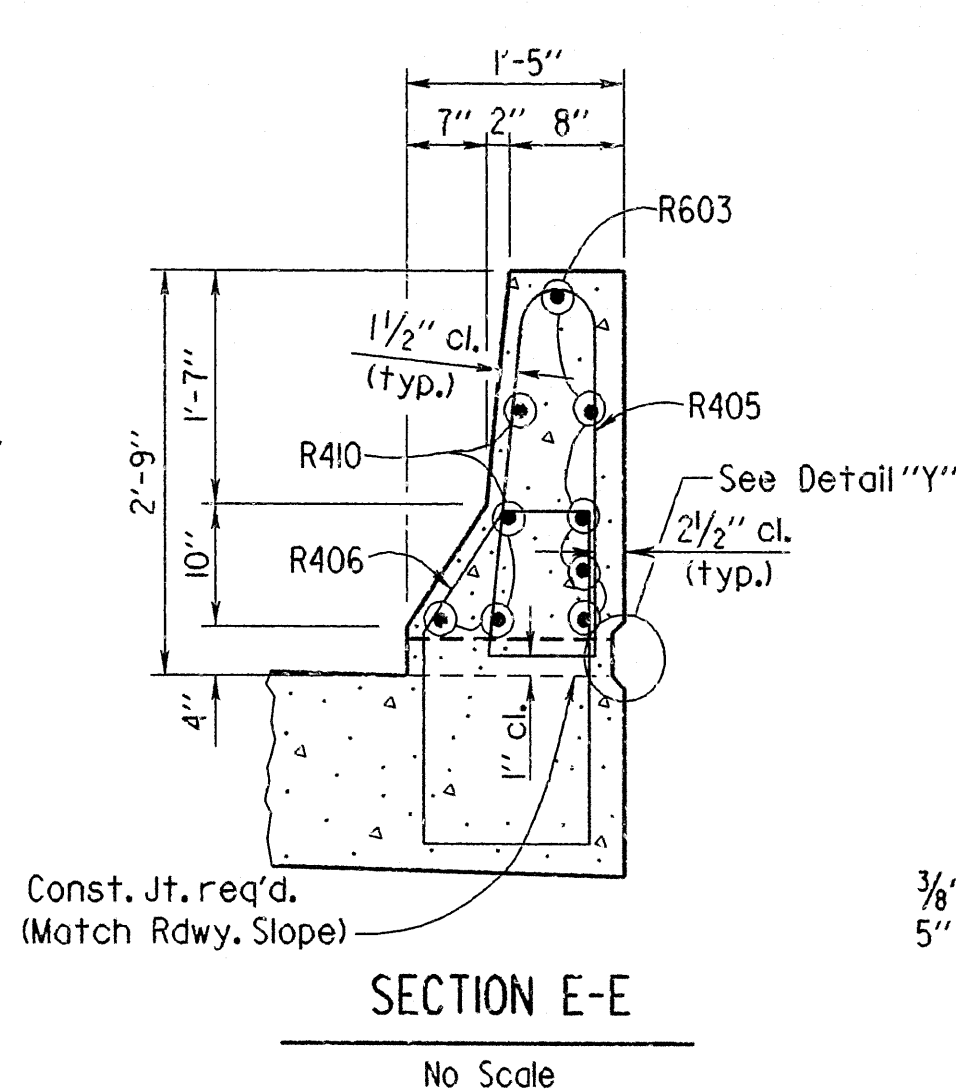
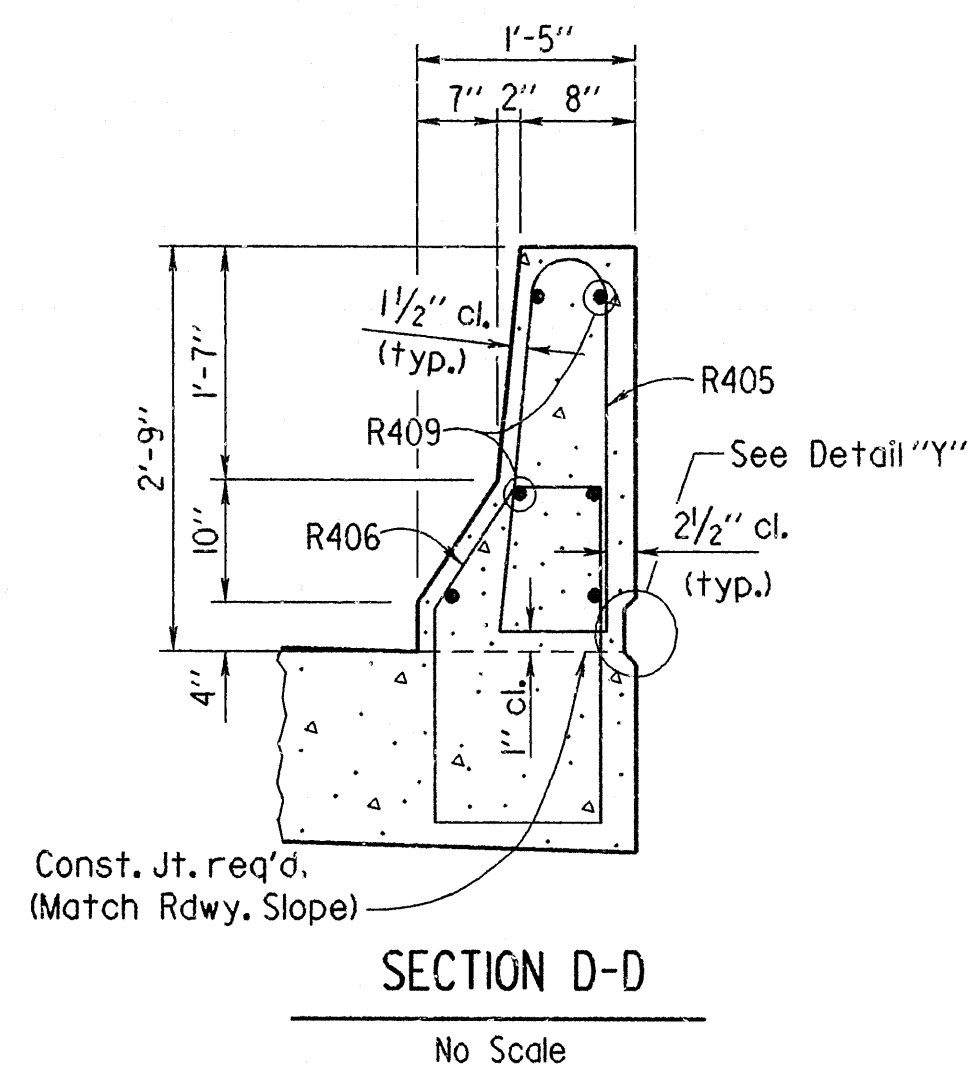
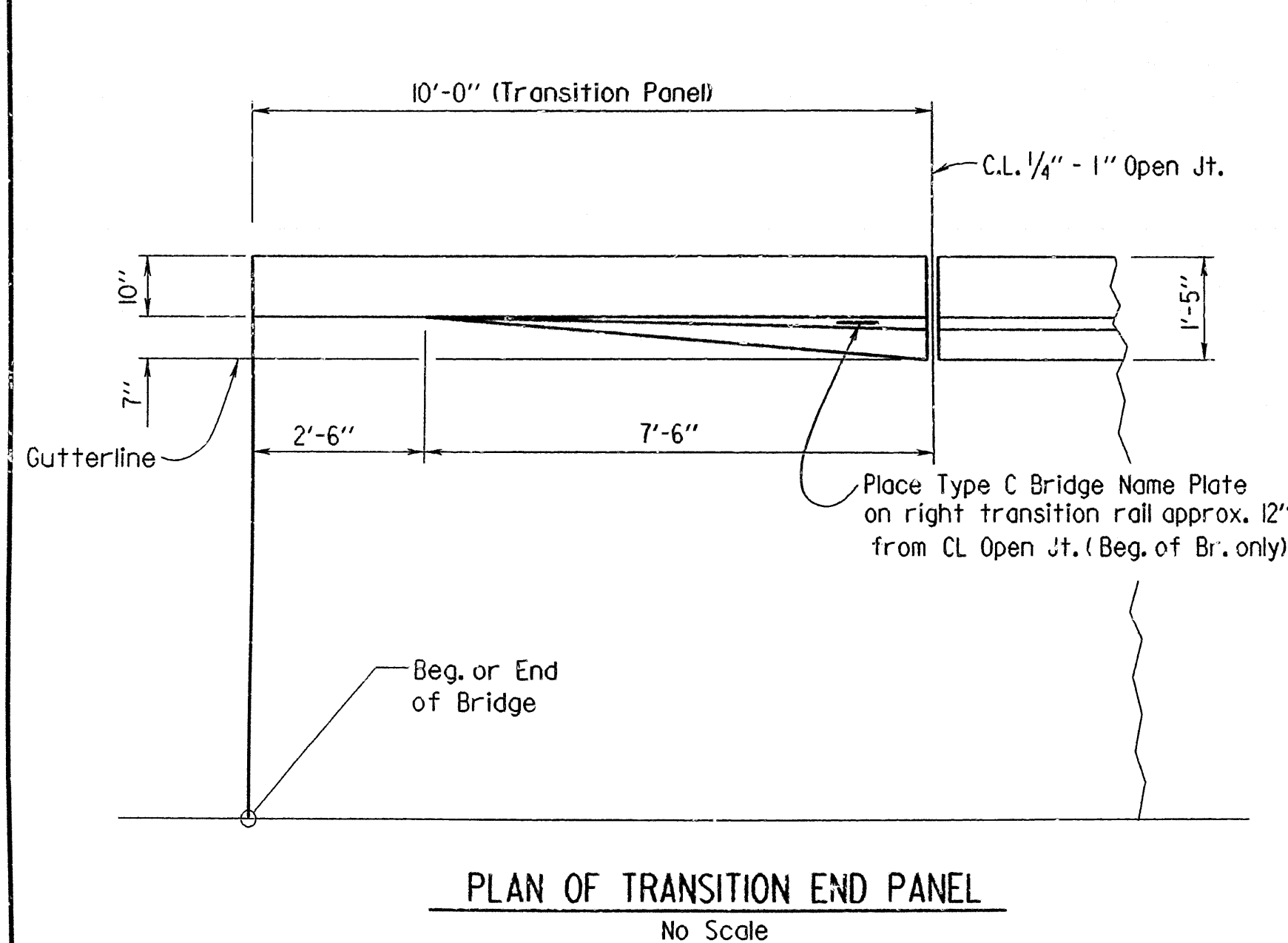
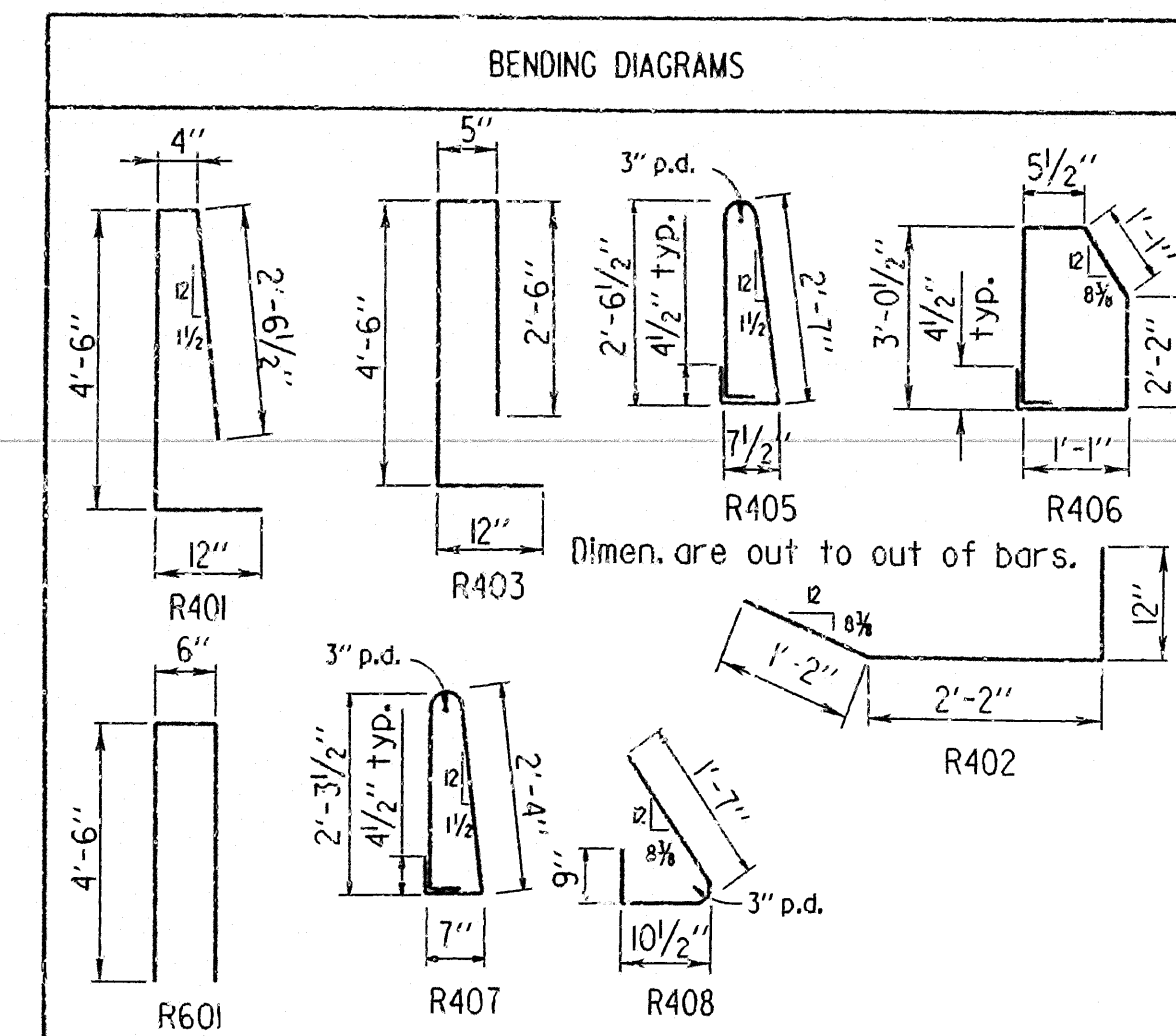
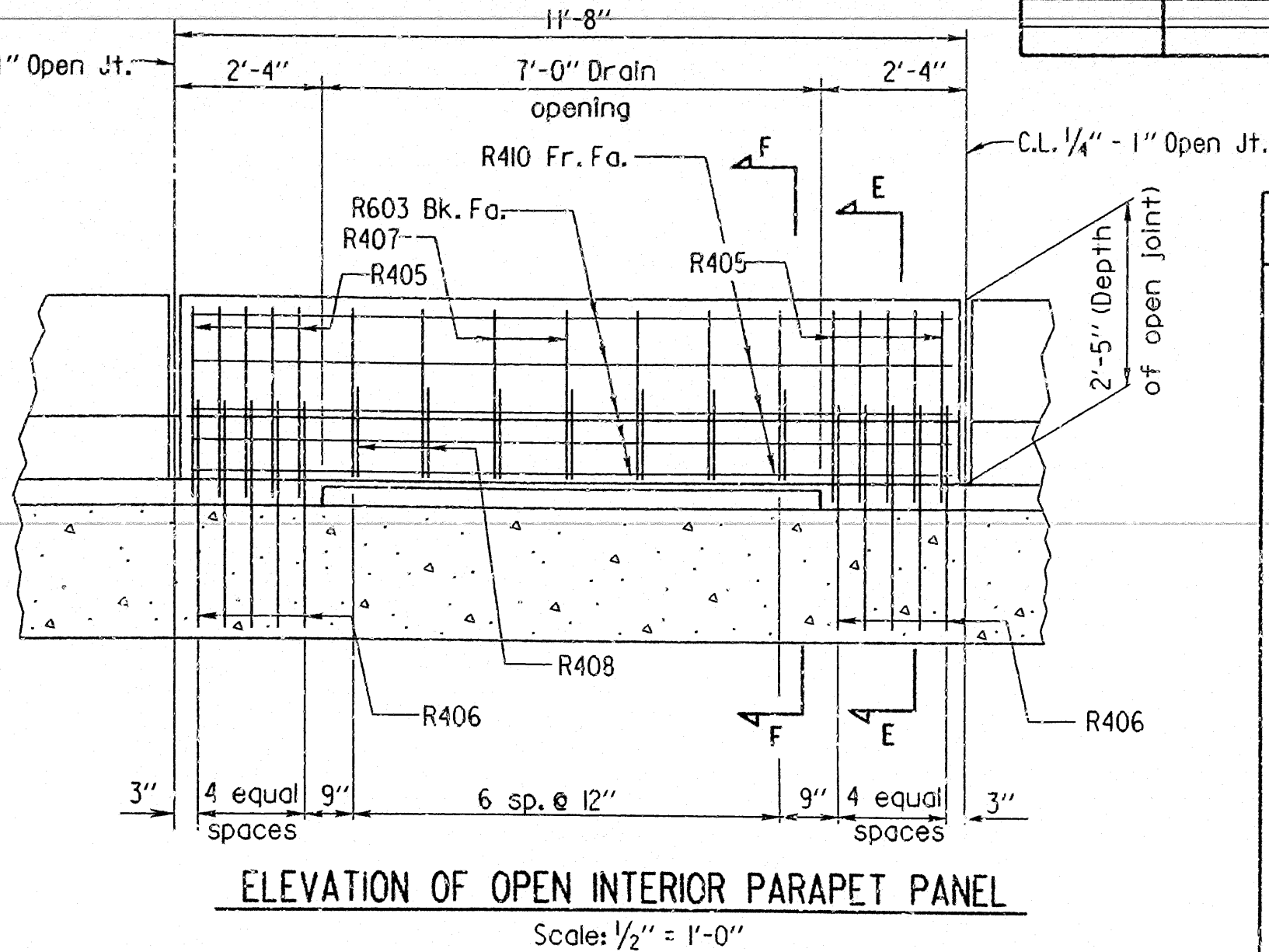
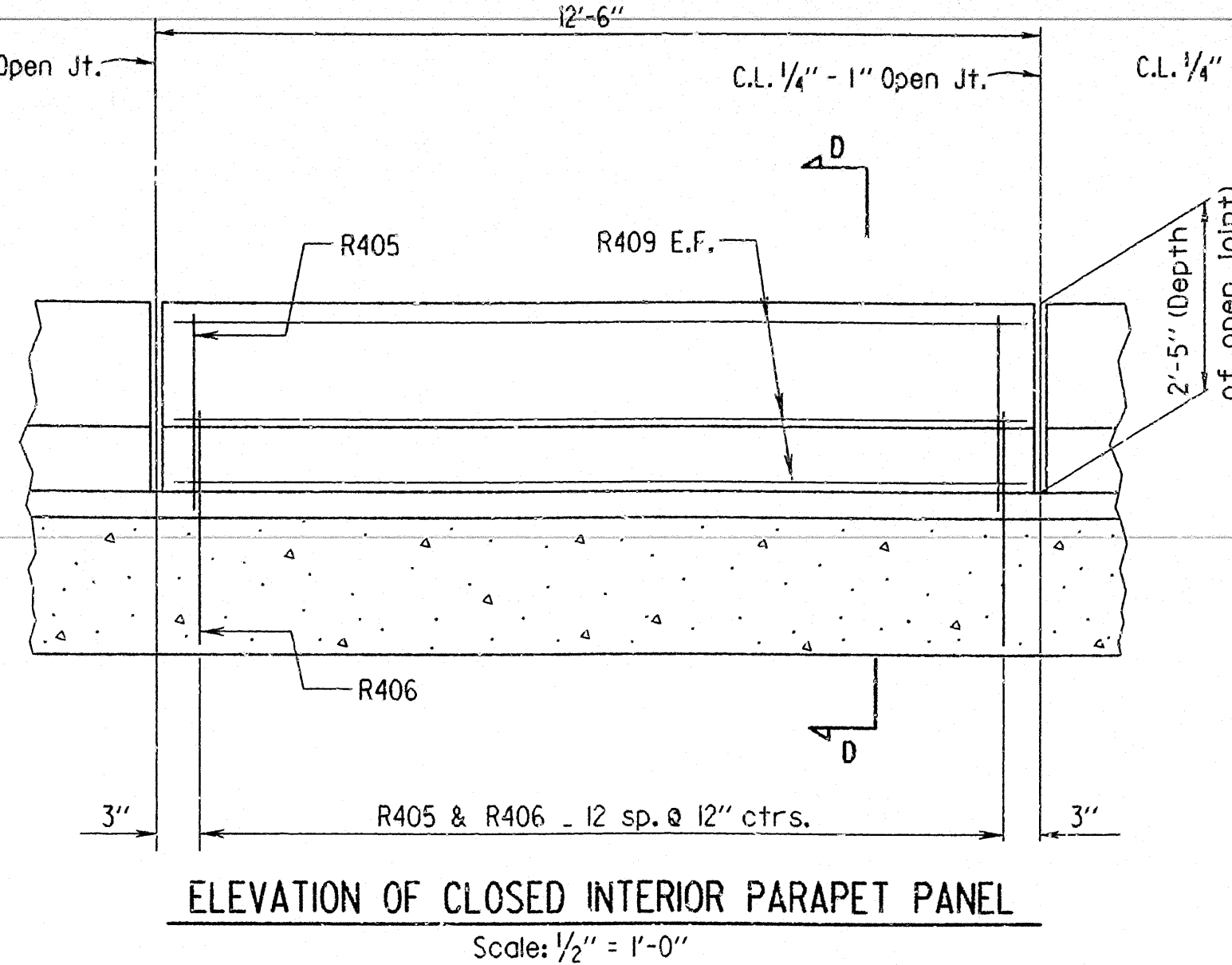
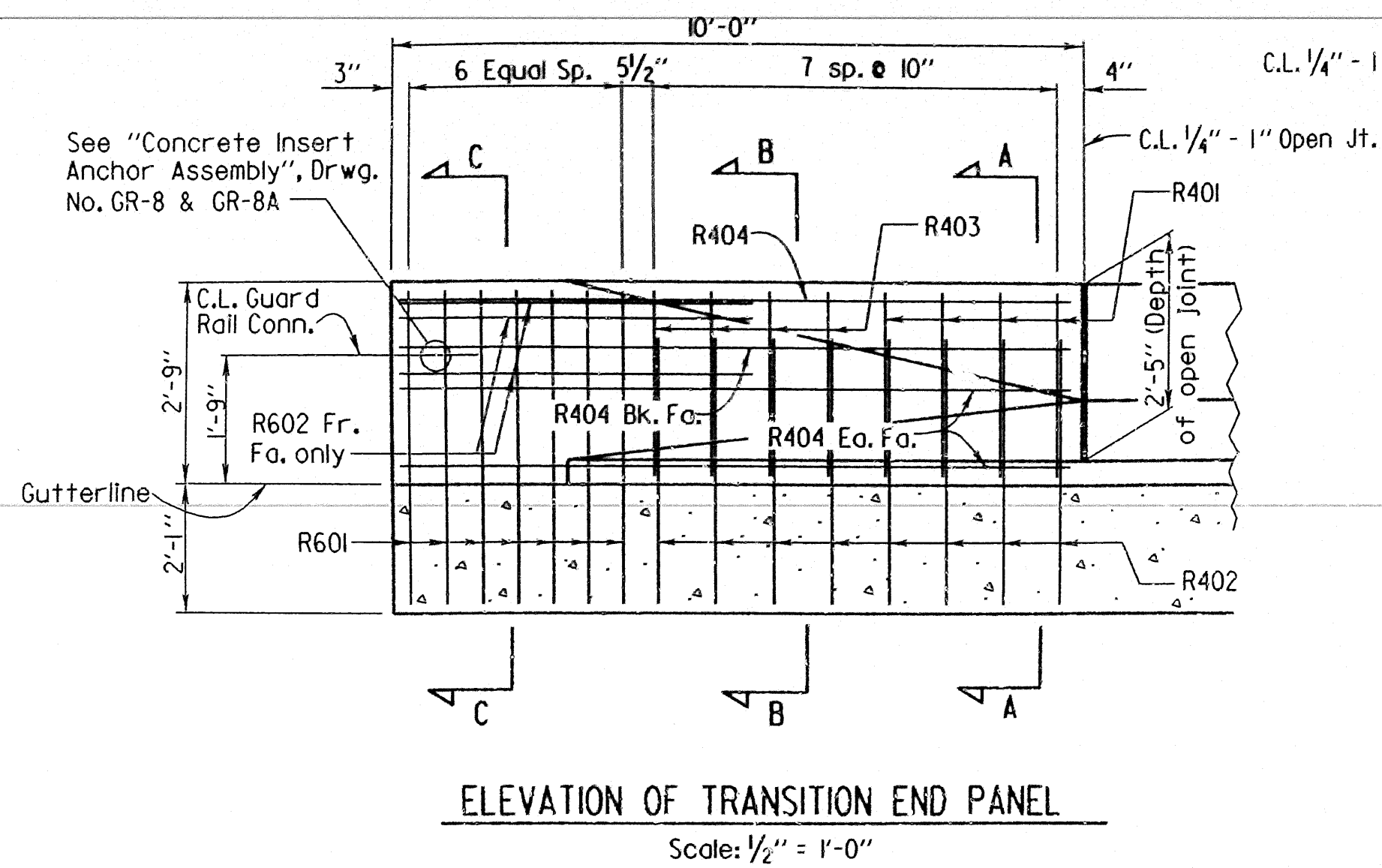
ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

BRIDGE ENGINEER

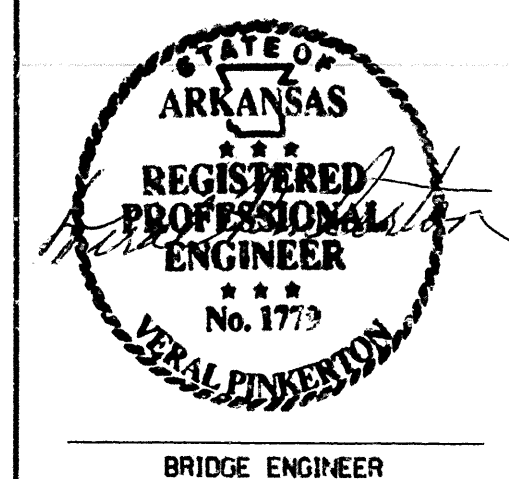
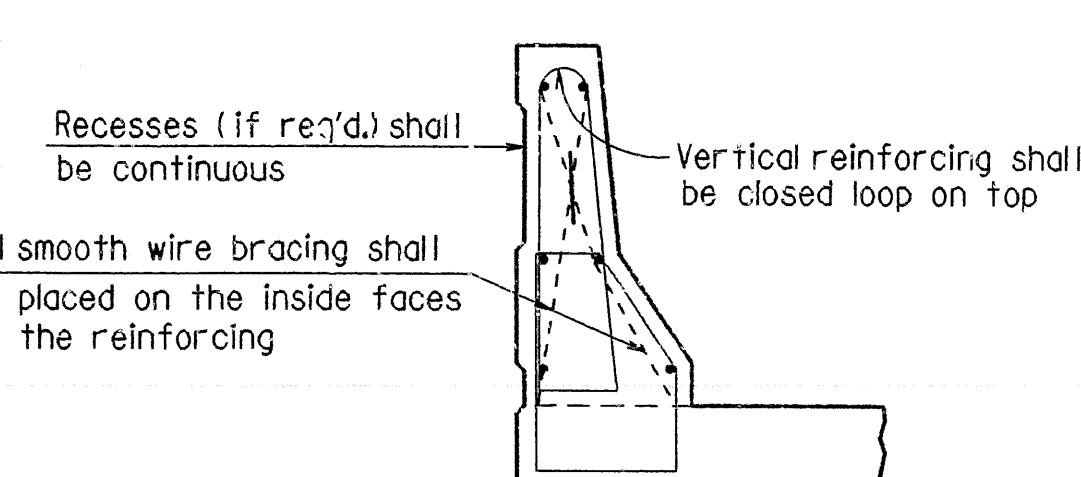
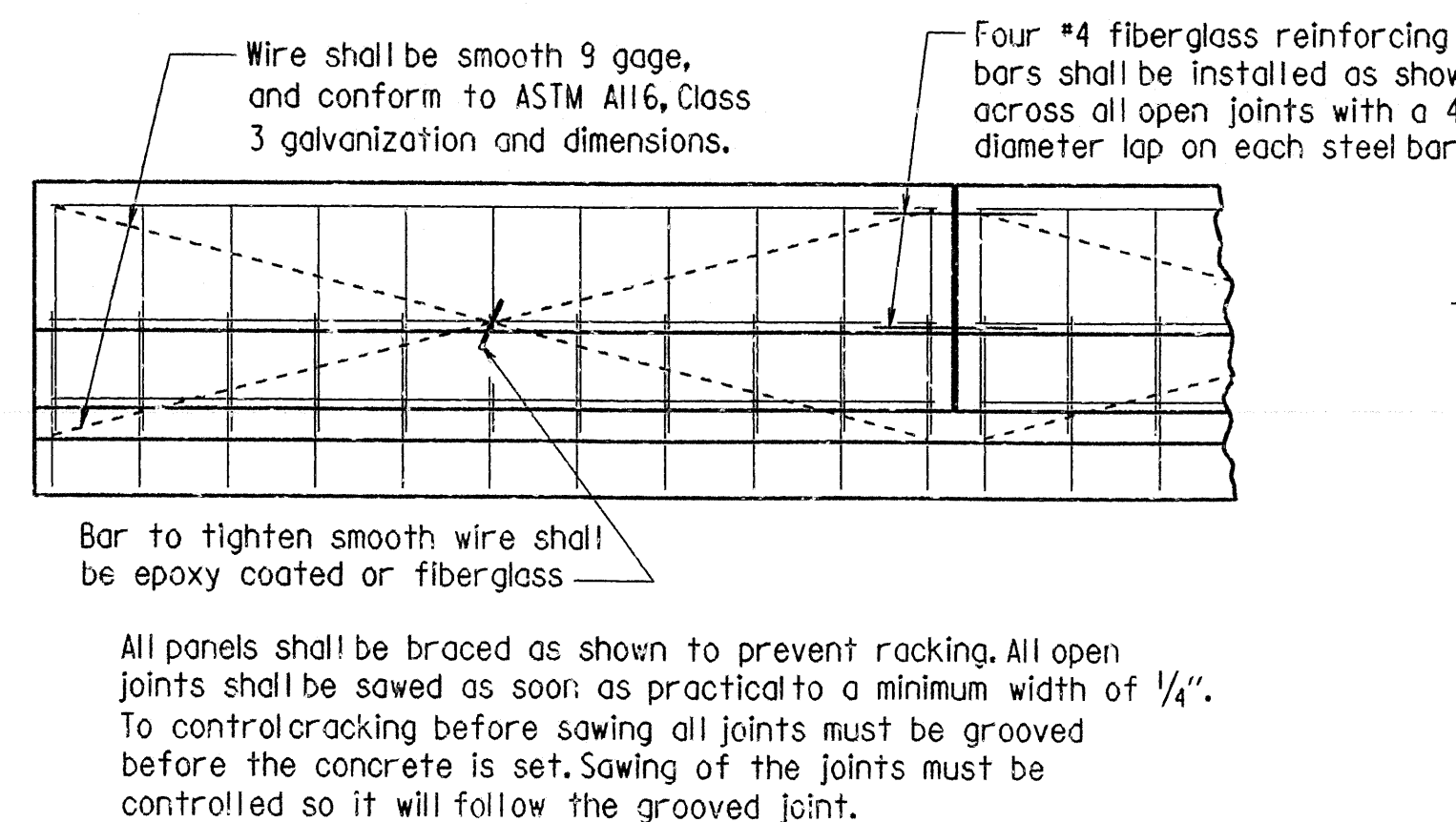
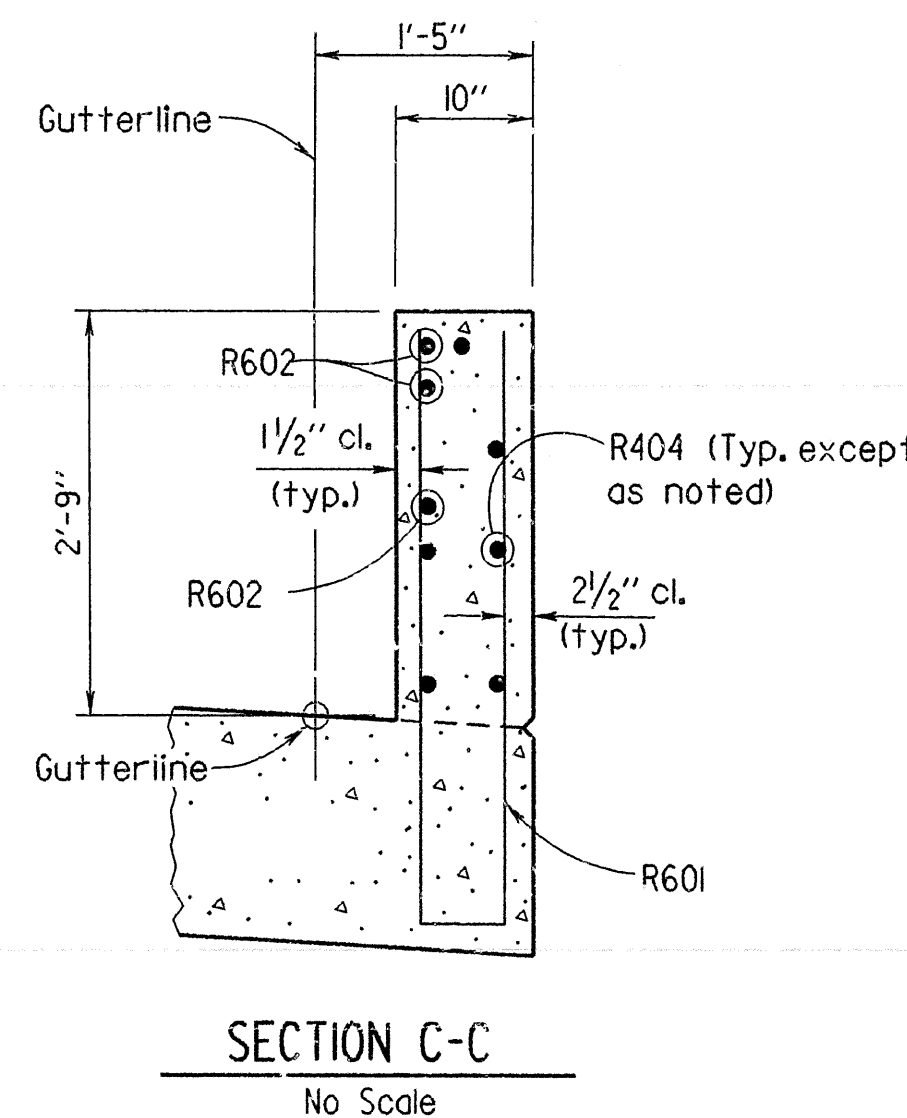
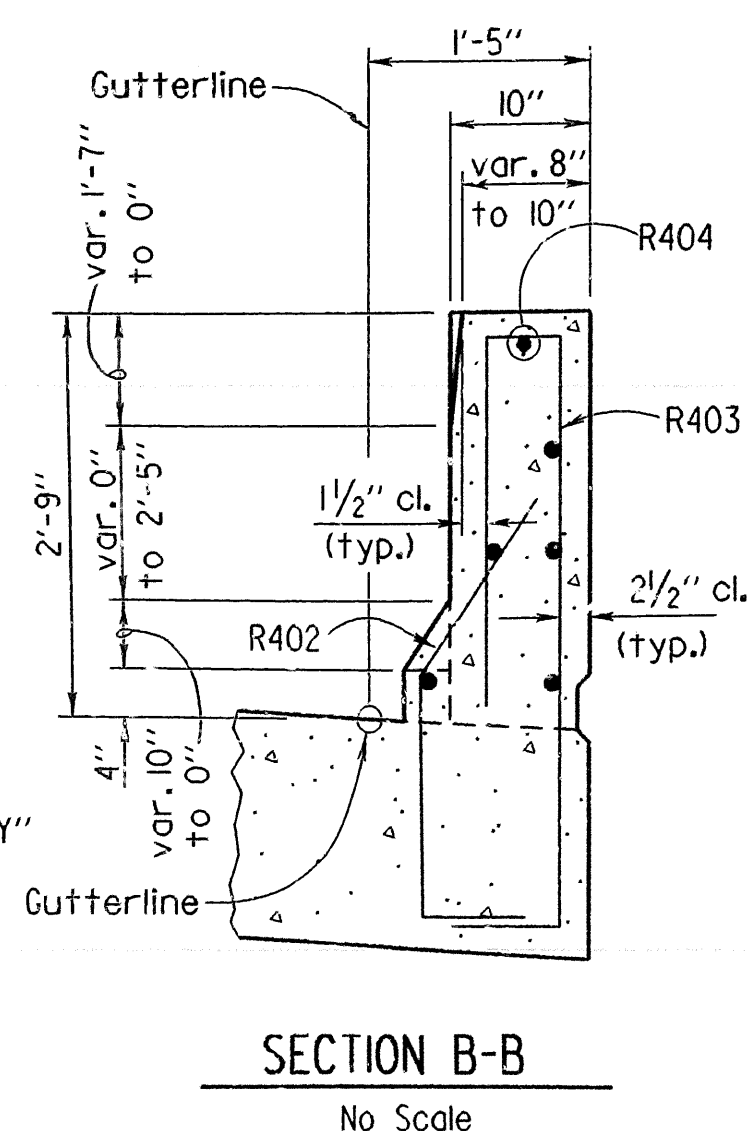
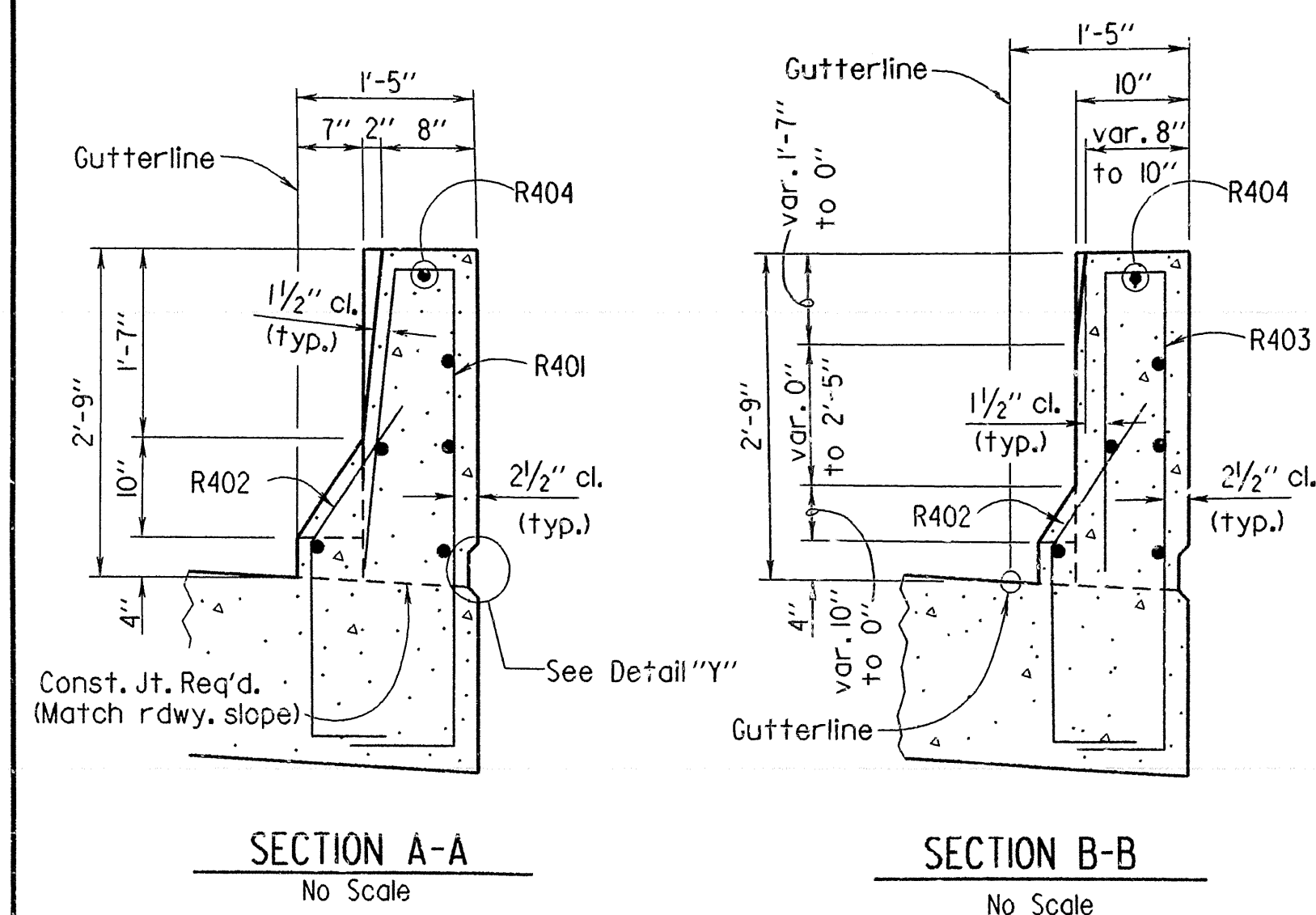
DRAWN BY: KMG DATE: 2 Nov 92
CHECKED BY: JBM DATE: 4-93
DESIGNED BY: JBM DATE: 6-93
BRIDGE NO. 6557 DRAWING NO. 34132

Note: For location of open and closed parapet panels, see Reinforcing Plan.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	004985	26	84
				JOB NO.		RAIL DTLS.	34133	



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 plates 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. 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.



SHEET 2 OF 2
DETAILS OF
35'-0" R.C. SLAB SPANS
ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: KMG DATE: 2 Nov 92
CHECKED BY: J.A.M. DATE: 4-93 SCALE: As Shown
DESIGNED BY: J.B.M. DATE: 6-93
BRIDGE NO. 6557 DRAWING NO. 34133

For R/W Data, see Rdwy. Plans

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.		004985	27	84
				6558		LAYOUT	34134	

GENERAL NOTES

BENCH MARK: Chiseled Square on S.W. Abutment 15' Right of C.L. Survey
Sta. 150+51.00. Elev. 491.675.

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

FOOTINGS: Footings shall be set a minimum of 1'-6" into material designated
as medium hard shale on the boring legend. 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 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
roadway surface and to the face and top of the concrete parapet rail.

DETAIL DRAWINGS: DRAWING NO.

End Bents	34135
Int. Bents	34136
30' R.C. Slab Spans	34137 & 34138
Type C Bridge Name Plate	2389A
Embankment Construction	1888A
Dumped Riprap and Filter Blanket	1891F
Computing Excavation for Structures	1891F
Type F Approach Gutters	2016F & 2017

EXISTING BRIDGE: Existing bridge No. M1702 (log mile 2.85) is 22' wide and
62' long and consists of a steel superstructure supported by a concrete
substructure. The existing bridge is located approximately along C.L. Survey.

REMOVAL AND SALVAGE: Existing bridge (M1702) shall be removed in
accordance with section 205 of the Standard Specifications. All material from
the existing bridge shall become the property of the contractor.

TEMPORARY BRIDGE: Construct a 62' long temporary bridge approximately 45'
downstream. The temporary bridge shall have a minimum roadway width of 20', a
minimum live load capacity of H15 and a minimum deck elevation of 490.0. See
section 603 of the Standard Specifications. See drawing numbers 2421 thru
2424 for standard temporary bridge details. If timber piling and pine
timber are used on this temporary bridge structure, the materials shall be
treated with a preservative according to the standard specifications. See
roadway plans for actual detour grade and alignment.

Note: Use Type F Approach Gutters at
both ends of bridge. For details, see
drwg. no. 2016F & 2017.

Note: The contractor shall remove the
existing bridge approaches as shown
using 2:1 cut slopes. Approximately 1039
cu. yds. of excavation.

Boring Legend

- A-Moist, medium stiff, brown sandy, silty clay with sandstone fragments
B-Moist, stiff, brown and gray sandy, silty clay with sandstone fragments
C-Medium hard, gray weathered shale with sandstone seams
D-Medium hard, dark gray shale interbedded with hard, gray sandstone
E-Hard, gray sandstone interbedded with medium hard, dark gray shale
F-Moist, soft, brown sandy, silty clay with sandstone fragments and cobbles
G-Moist, medium stiff, brown and gray sandy, silty clay with sandstone fragments
and cobbles
H-Medium hard, gray weathered shale with some sandstone seams
J-Hard, gray fractured sandstone interbedded with medium hard, dark gray shale
K-Wet, very loose, brown sand with clay seams

PLAN

Total Length of Bridge = 120'-0"
(Four 30' R.C. Slab Spans)

0.35% Grade

* Closed Panels (End Spans)
Open Panels (Int. Span)

HYDRAULIC DATA

Drainage Area = 3.7 sq. mi.

FLOOD DESCRIPTION	FREQUENCY YEARS	DISCHARGE CFS	NATURAL WATER SURFACE ELEV.*	WATER SURFACE ELEV. WITH BACKWATER
			FEET	FEET
DESIGN	50	3000	485.0	486.3
BASE	100	3670	485.5	486.9
EXTREME	500	5750	486.5	489.5
OVERTOPPING	>500	—	—	—

Remarks

- * Historical Highwater Elev. = 488.3
- * Low Bridge Member Elev. = 488.03

* Unconstricted water surface elev. at
proposed bridge location.

ELEVATION

Bt. 1

Bt. 2

Bt. 3

Bt. 4

Bt. 5

LAYOUT OF BRIDGE
(LOG MILE 2.85)

GREENWOOD - HWY. 22 BRS. & APPRS.

SEBASTIAN COUNTY

ROUTE 96 SEC. 2

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.



DRAWN BY: KMG DATE: 24 AUG 92

CHECKED BY: BJK DATE: 23 JUN 93

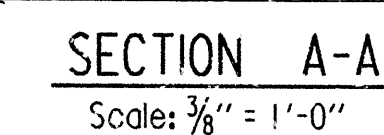
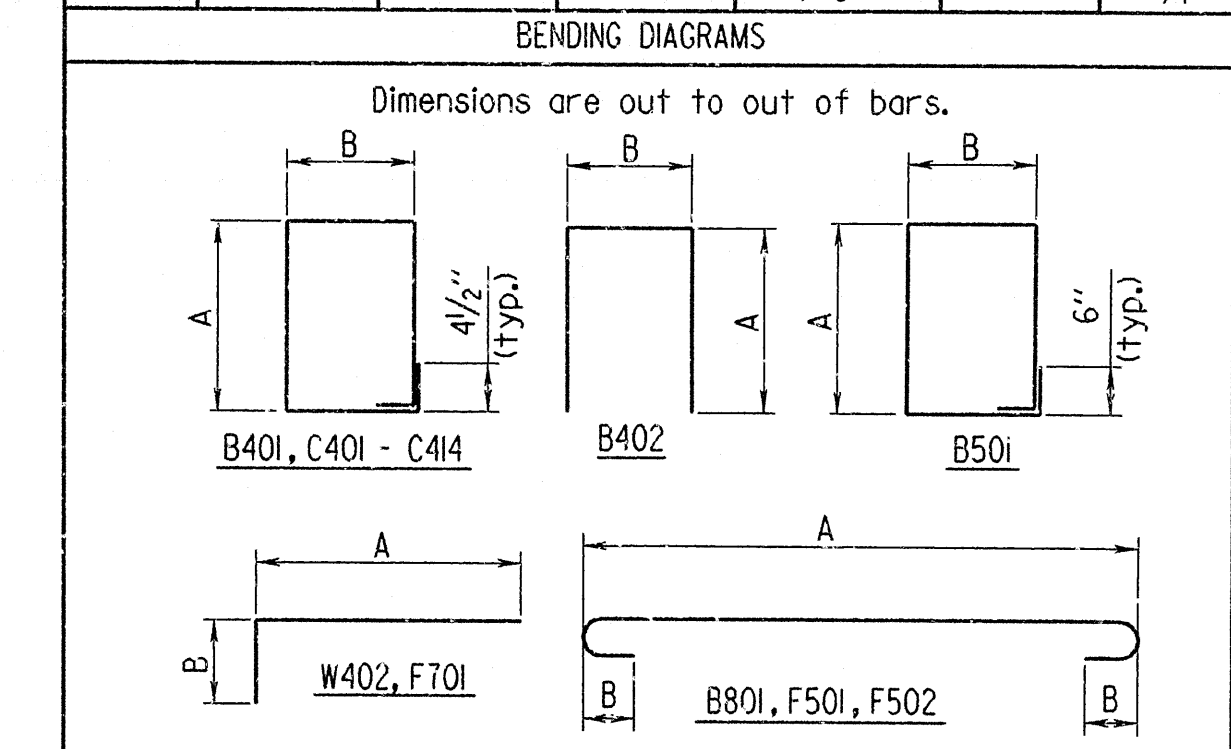
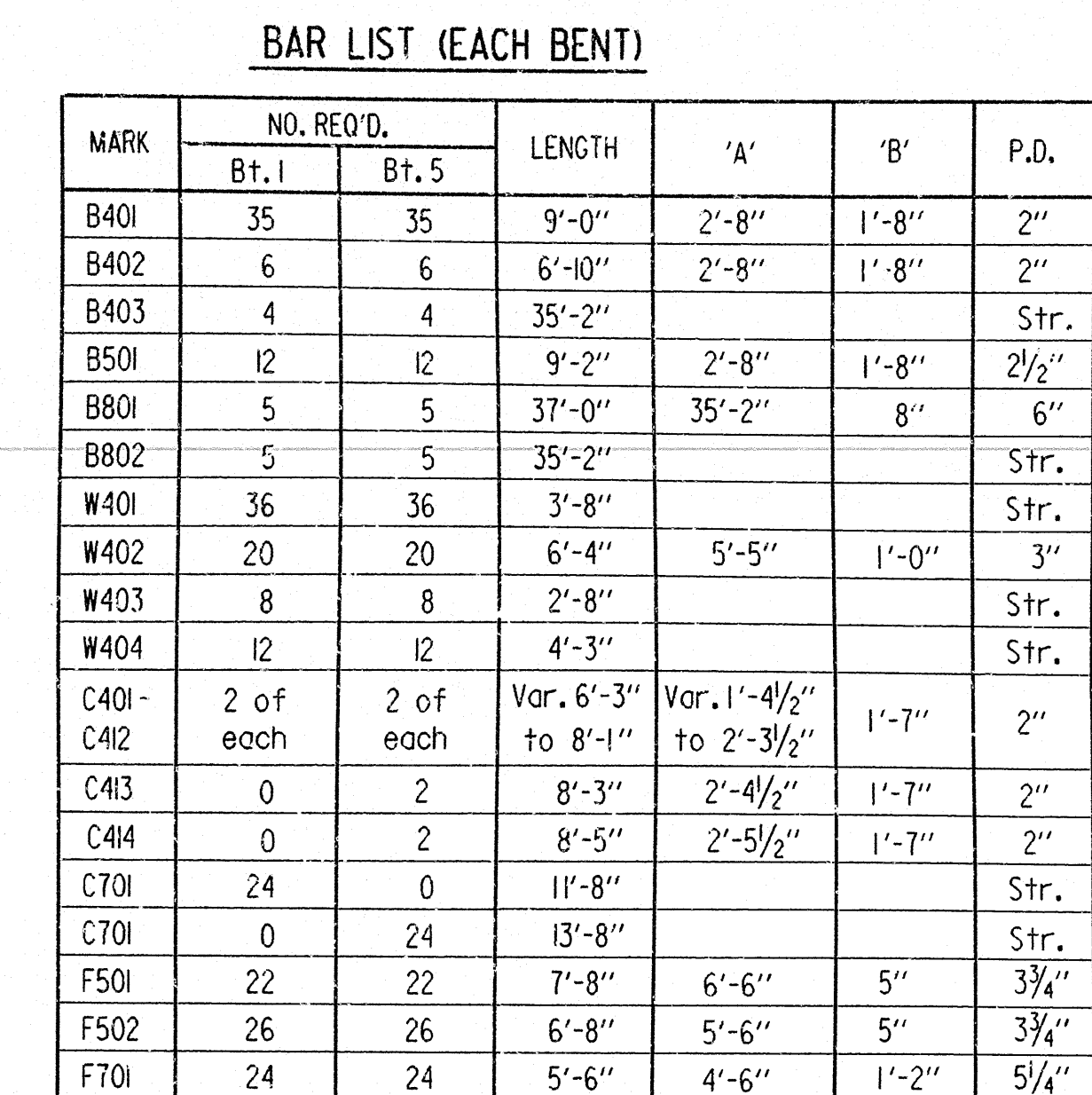
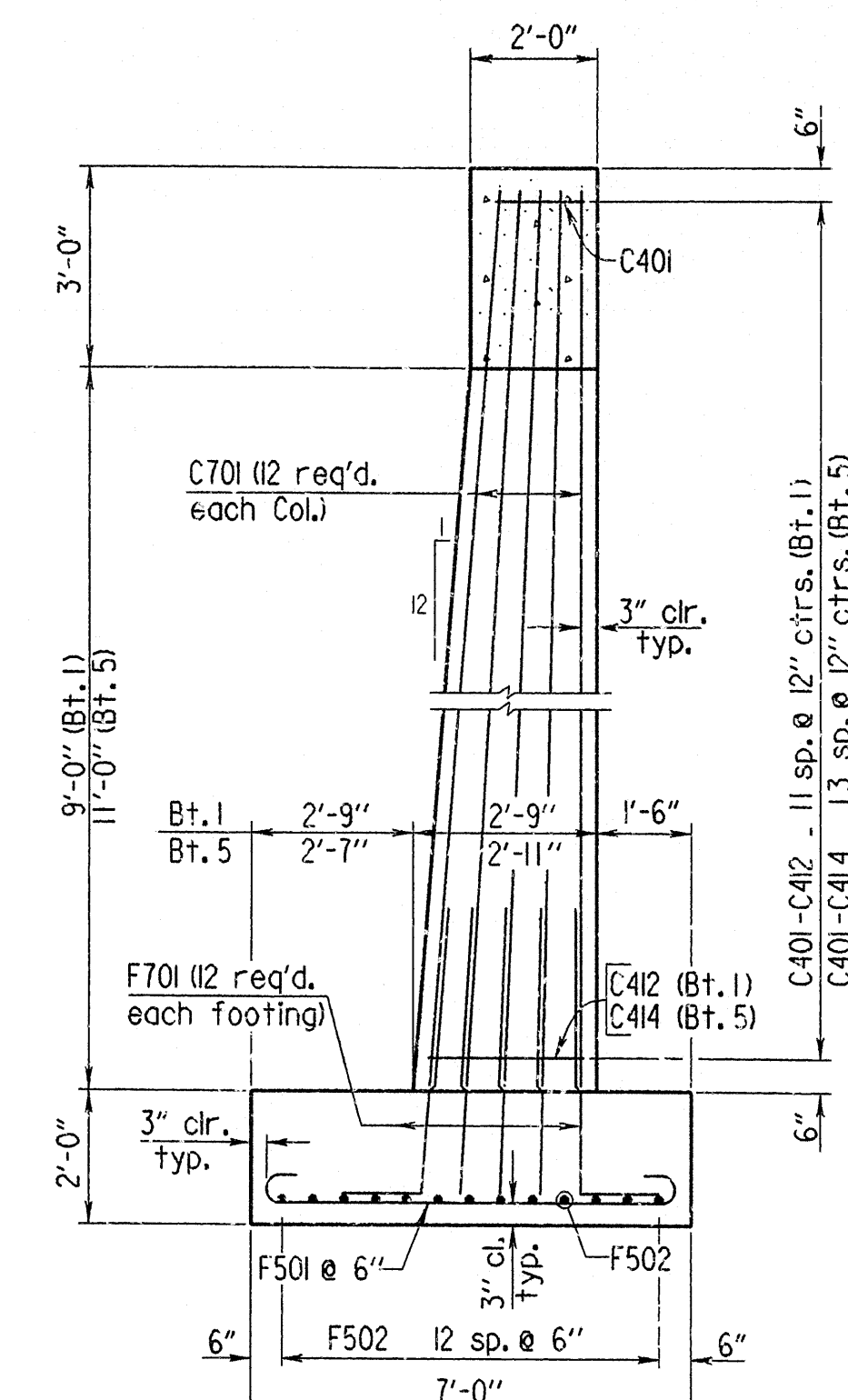
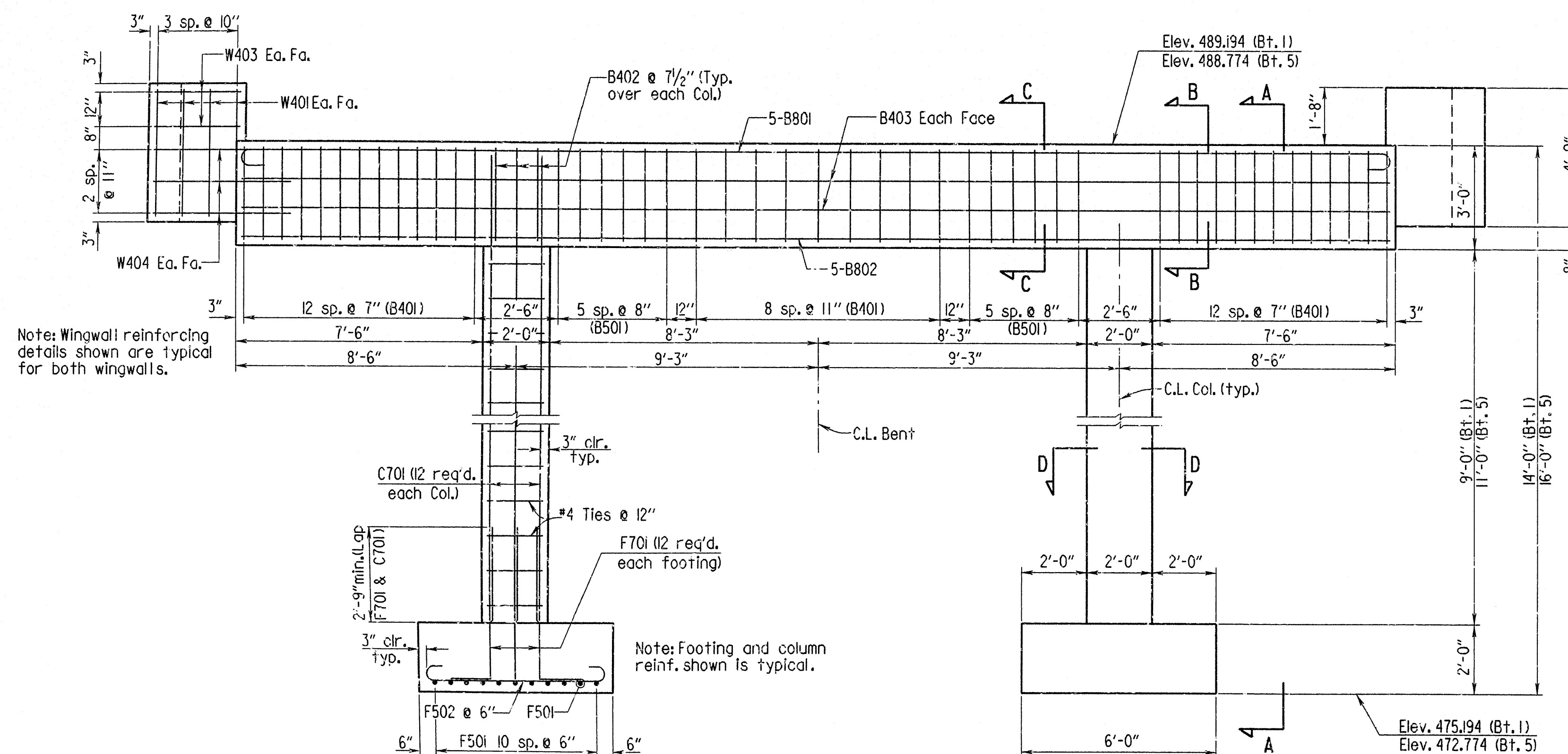
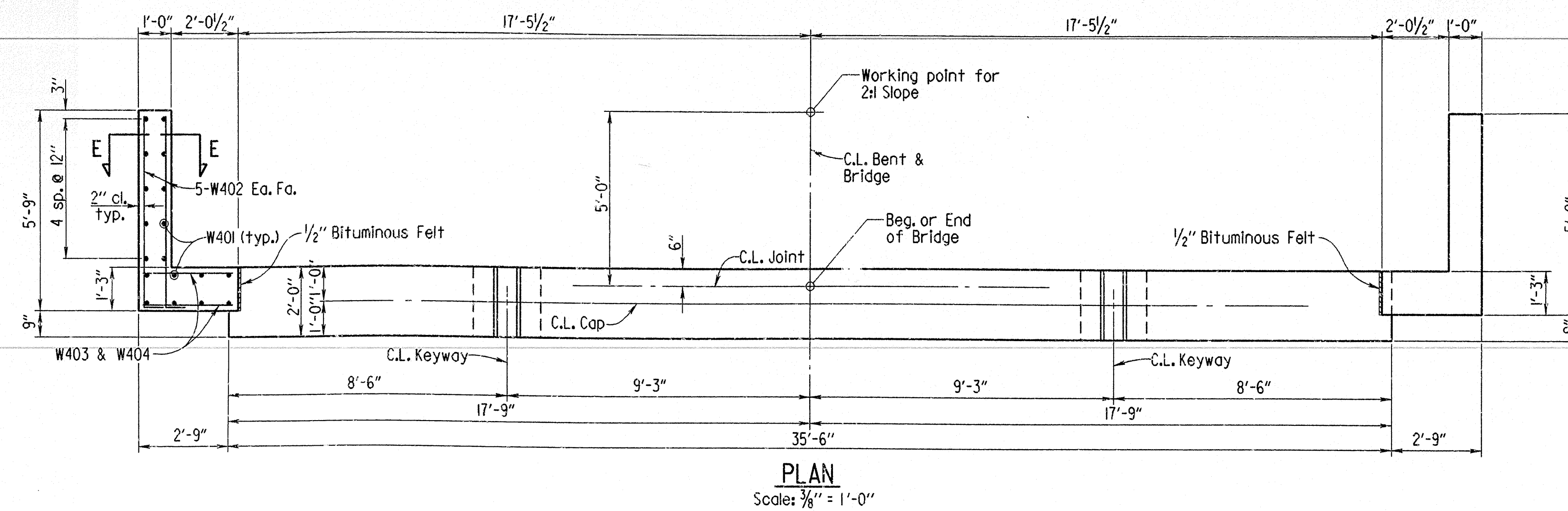
DESIGNED BY: BJK DATE: 6-93

BRIDGE NO. 6558

DRAWING NO. 34134

SCALE: 1" = 20'

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. AID DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		004985	28	84
				① 6558	BENT DTLS.			34135

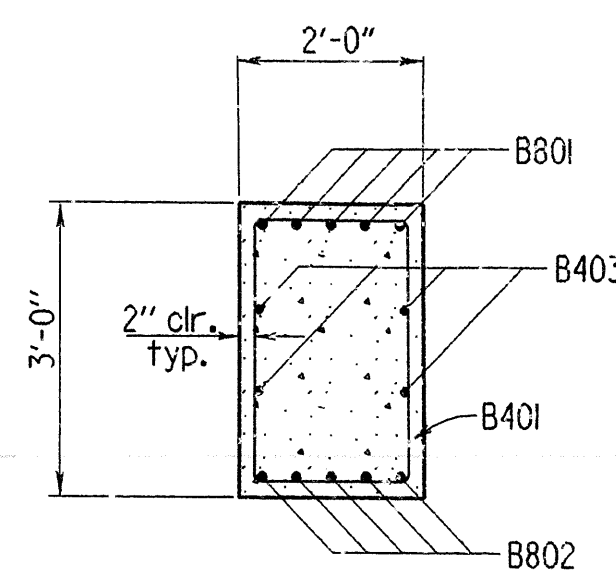


END BENT NOTES

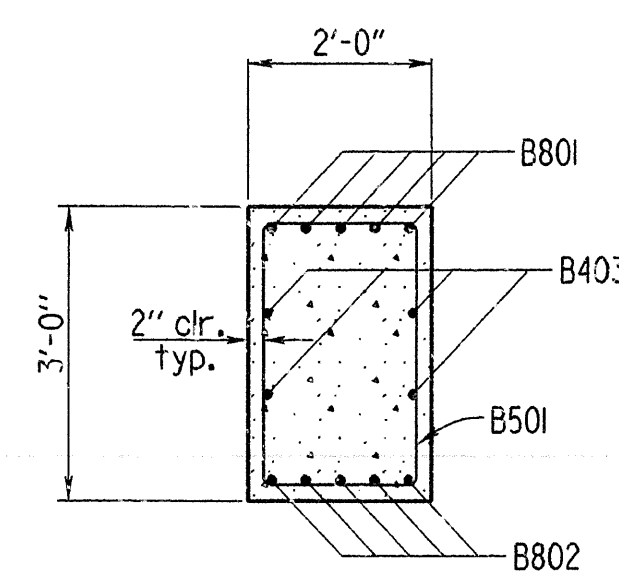
All concrete shall be Class "S" with a minimum 28 day compressive strength $f'c = 3,500$ psi. Concrete shall be poured in the dry and all exposed corners to be chamfered $3/4"$ unless otherwise noted.

All reinforcing steel shall conform to ASTM A615 or A617, Grade 50 (yield strength = 60,000 psi.).

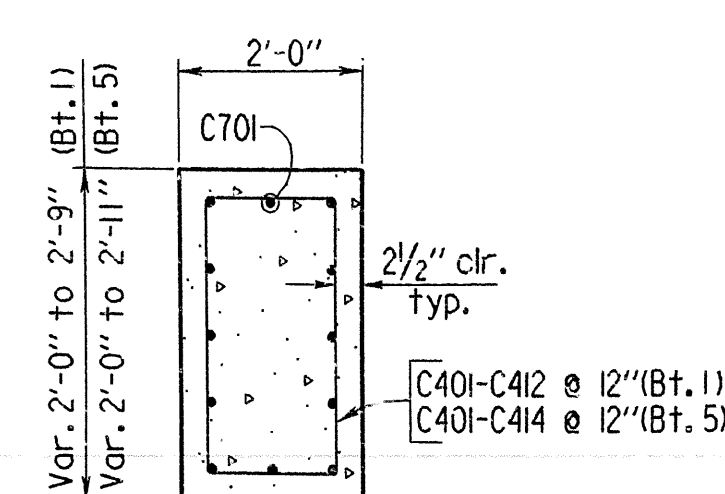
For additional information see layout.



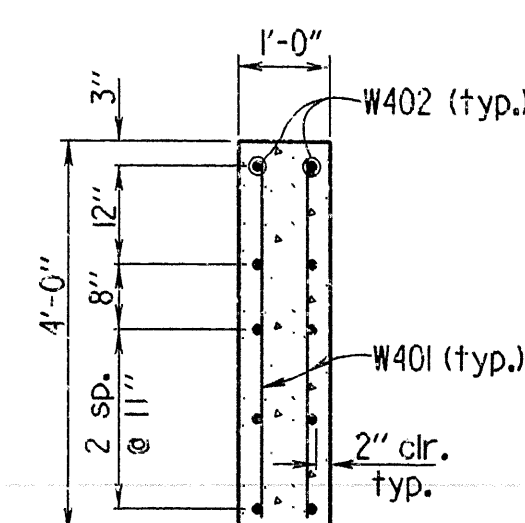
SECTION B-B
Scale: 1/2" = 1'-0"



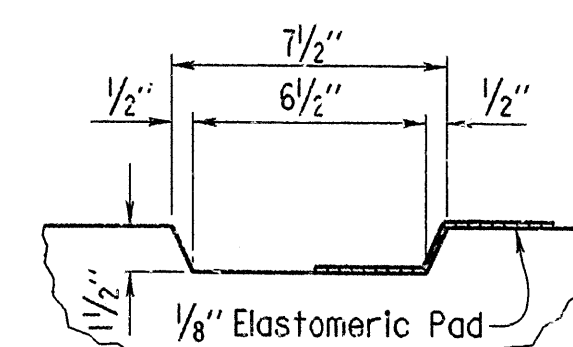
SECTION C-C
Scale: $\frac{1}{2}'' = 1'-0''$



SECTION D-D
Scale: $\frac{1}{2}'' = 1'-0''$

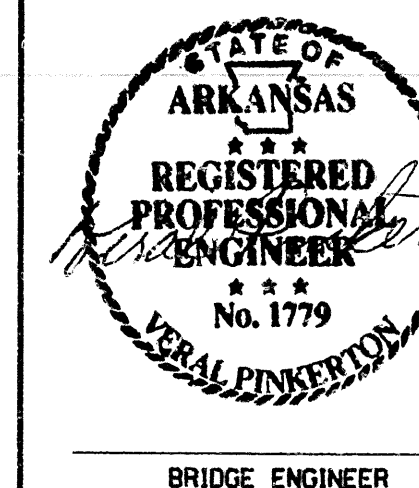


SECTION E-E
Scale: $\frac{1}{2}'' = 1'-0''$



TYPICAL KEYWAY DETAIL
No Scale

Note:
1/8" Elastomeric Pad to be in full contact with Bent Cap surfaces when placing superstructure concrete.



DETAILS OF
END BENT NOS. 1 AND 5

ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: 19 Jan 93
CHECKED BY: PJW DATE: 12 Apr 93 SCALE: As Shown
DESIGNED BY: JAC DATE: 1 Dec 92

BRIDGE NO. 6558 DRAWING NO. 34135

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.		004985	29	84
				6558		BENT DTLS.		34136

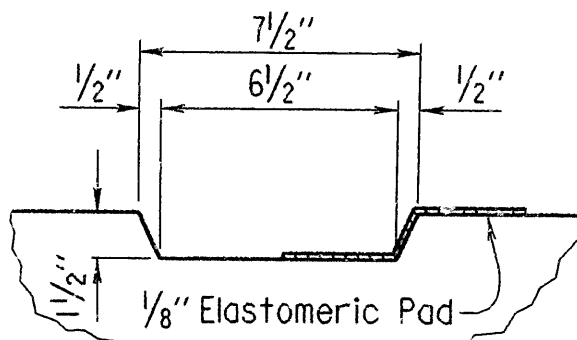
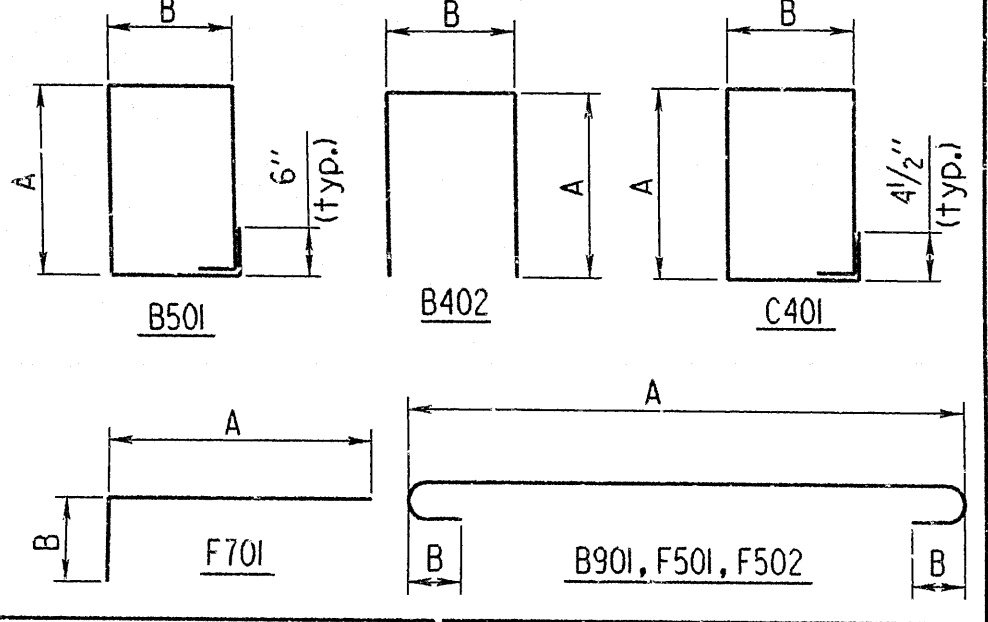
1

BAR LIST (EACH BENT)

MARK	NO. REQ'D.	LENGTH	'A'	'B'	P.D.
B401	4	35'-2"			Str.
B402	6	6'-10"	2'-8"	1'-8"	2"
B501	51	9'-2"	2'-8"	1'-8"	2 1/2"
B801	6	35'-2"			Str.
B901	6	37'-8"	35'-2"	10"	9"
D401	*	2'-6"			Str.
C401	28	6'-8"	1'-7"	1'-7"	2"
C701	16	13'-8"			Str.
F501	22	7'-8"	6'-6"	5"	3 3/4"
F502	26	6'-8"	5'-6"	5"	3 3/4"
F701	16	5'-6"	4'-6"	1'-2"	5 1/4"

BENDING DIAGRAMS

Dimensions are out to out of bars.



TYPICAL KEYWAY DETAIL

No Scale

Note:

1/8" Elastomeric Pad to be in full contact with Bent Cap surfaces when placing superstructure concrete.

All concrete shall be Class "S" with a minimum 28 day compressive strength $f'_c = 3,500$ psi. Concrete shall be poured in the dry and 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.

DETAILS OF INT. BENT NOS. 2 THRU 4

ROUTE 96 SEC. 2

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: 19 Jan 93

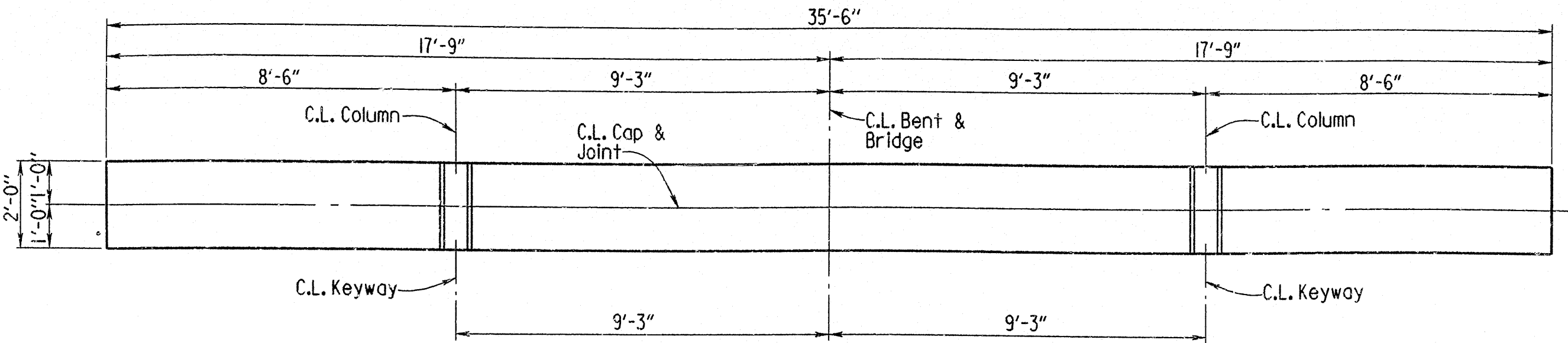
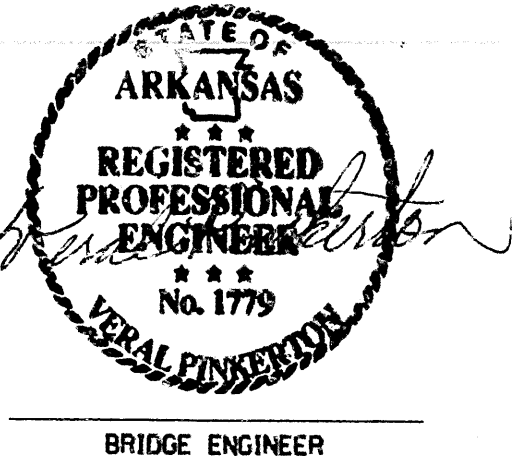
CHECKED BY: R/W DATE: 12 Apr 93

DESIGNED BY: JAC DATE: 1 Dec 92

SCALE: As Shown

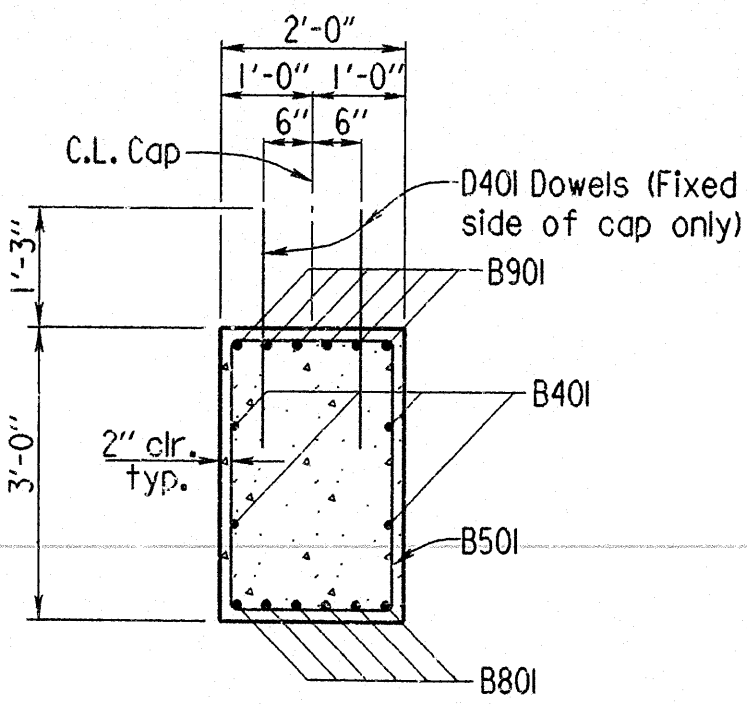
BRIDGE NO. 6558

DRAWING NO. 34136



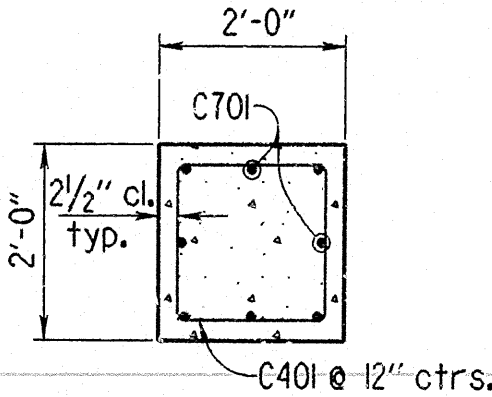
PLAN

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



SECTION B-B

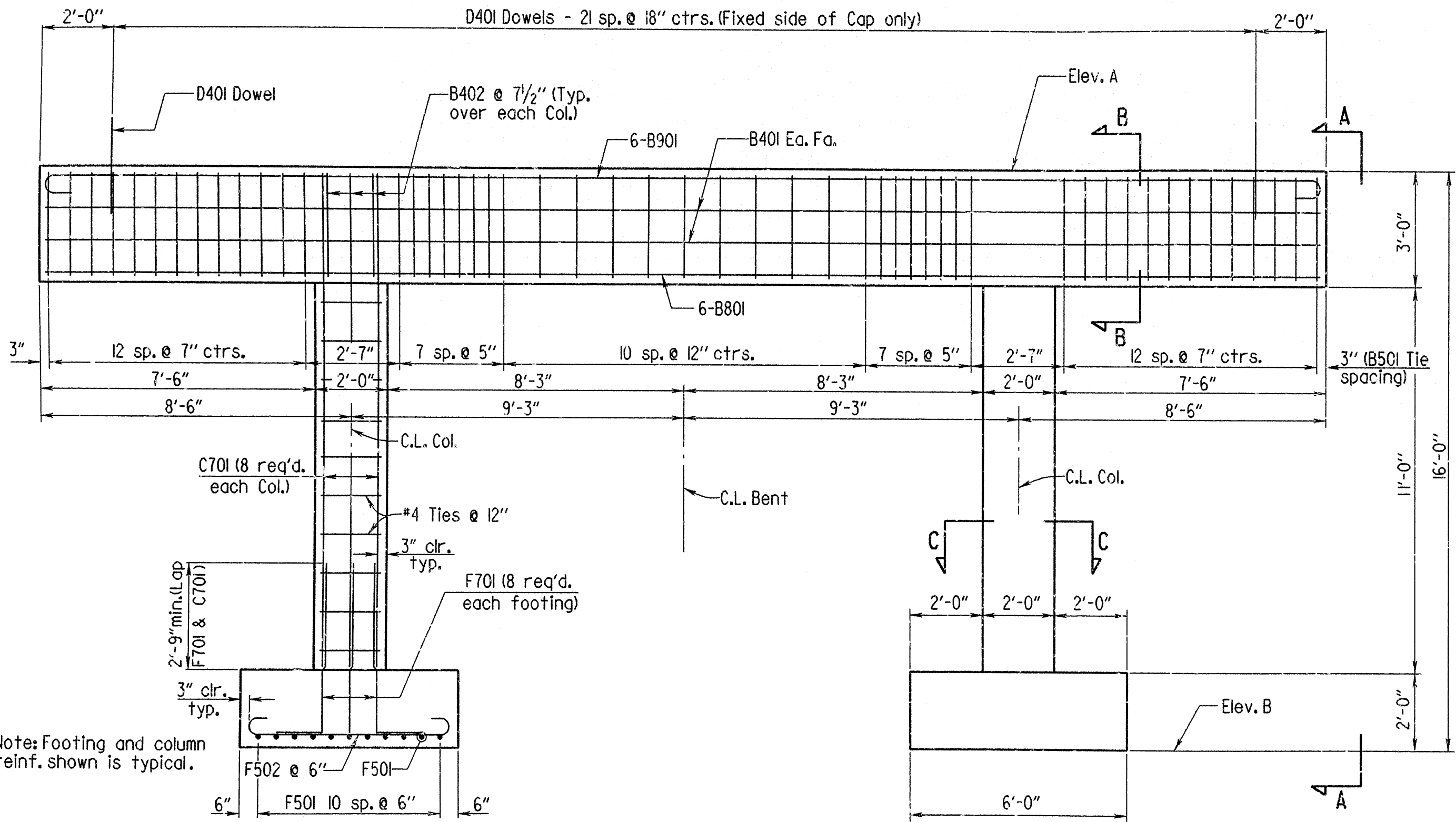
Scale: 1/2" = 1'-0"



SECTION C-C

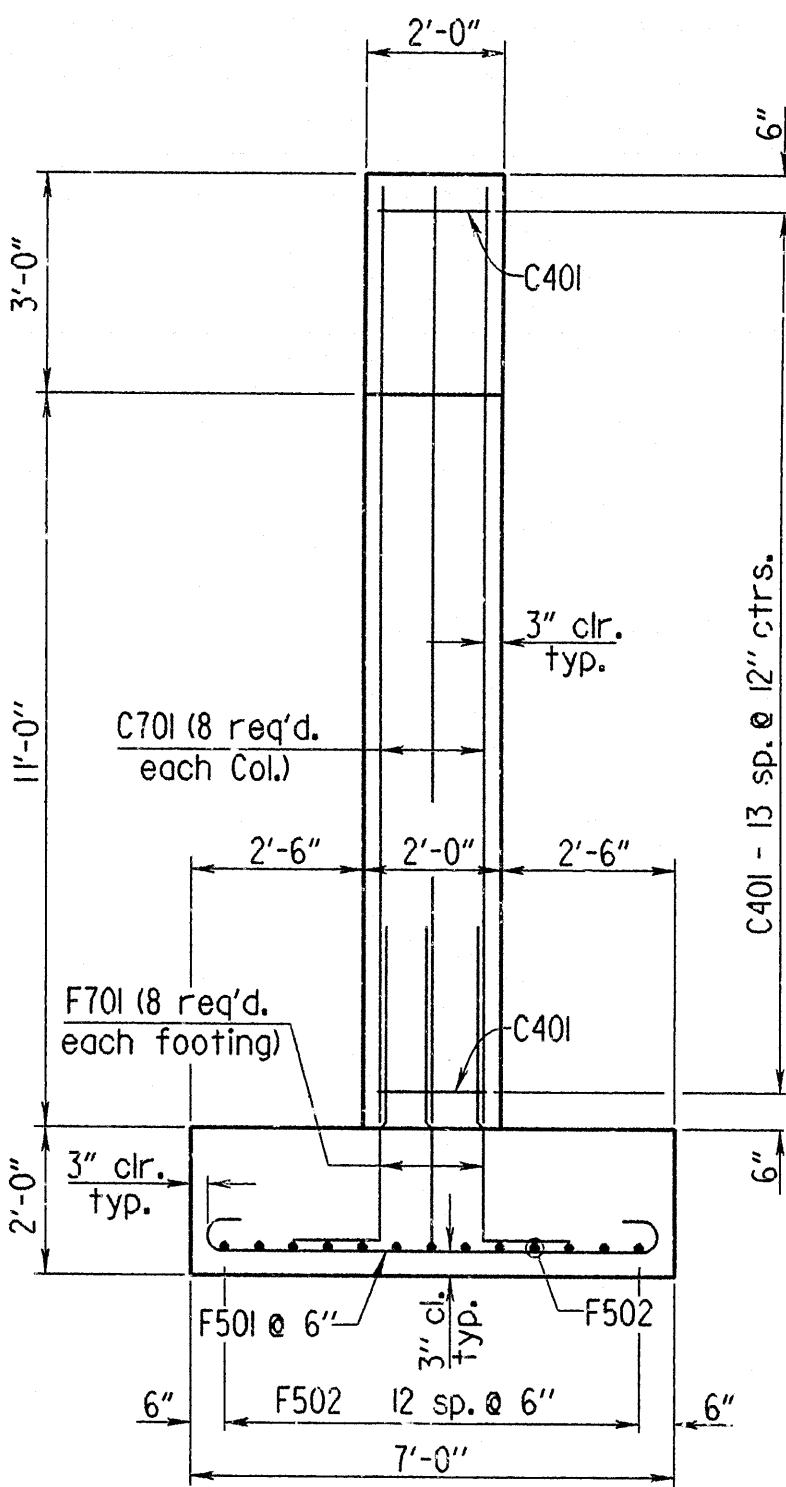
Scale: 1/2" = 1'-0"

* 22 Req'd. for Fix-Exp. Bent
44 Req'd. for Fix-Fix Bent



ELEVATION

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



VIEW A-A

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

TABLE OF VARIABLES

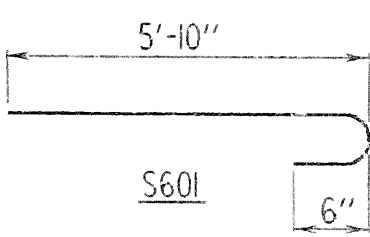
BENT NO.	ELEV. "A"	ELEV. "B"
2	489.089	473.089
3	488.984	472.984
4	488.879	472.879

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.		004985	30	84
				6558		SPAN DTLS.		34137

BAR LIST (PER SPAN)

MARK	NUMBER REQUIRED		LENGTH	P.D.
	END	INT.		
S401	23	23	29'-8"	Str.
S402	68	68	34'-6"	Str.
S403	44	0	3'-9"	Str.
S404	0	24	3'-4"	Str.
S601	0	20	6'-6"	4 1/2"
S801	70	70	29'-8"	Str.
R401	8	0	7'-9"	2" *
R402	16	0	4'-3"	2" *
R403	8	0	7'-9"	2" *
R404	36	24	9'-8"	Str.
R405	40	60	6'-4"	2" *
R406	40	60	7'-4"	2" *
R407	0	36	5'-10"	2" *
R408	0	36	3'-2"	2" *
R601	14	0	8'-4"	4 1/2" *
R602	6	0	4'-10"	Str.
R603	0	30	9'-8"	Str.

Bending Diagrams



* For Bending Diagrams, see drwg. no. 34138.

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".

Roofing Felt, Bituminous Felt, Preformed Joint, 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 - 289 psf; Live Load: 0.174 Wheels/Ft. of width plus 30% Impact.

** Includes 22 psf Future Wearing Surface.

For additional information, see Layout.

SLIP FORMING: An approved method of slip forming may be used. The contractor may submit his proposal and methods, prepared by a professional engineer, to the bridge engineer for approval. Approval must be obtained before slip forming work is begun. Payment will be based on plan quantities. Vertical joints and drainage slots may not be eliminated.

1/2" Type 2 Joint (AASHTO M153-Type I or III)
(See section 501.03(h) & 501.04(j) of the Standard Specifications)

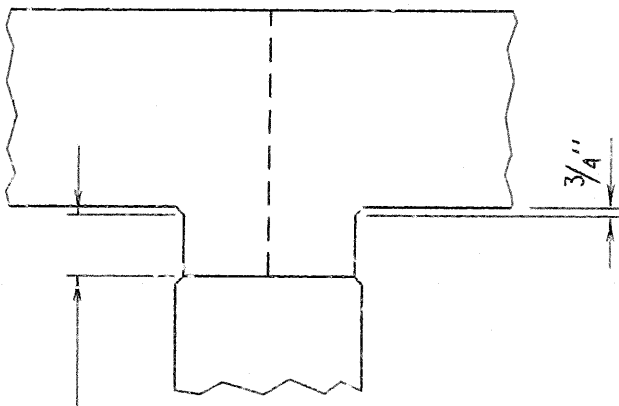
2" x 1/2" Type 6 Poured Jt.
(See section 501.03(h) & 501.04(j) of the Standard Specifications)

1/2" Rounding (typ.)

Note: All joints to be cleaned by sand blasting or other approved methods before pouring joint. Joint details shown are for expansion joints. Fixed joints are same except eliminate 1/2" Type 2 Joint.

TYPICAL SECTION THRU JOINT

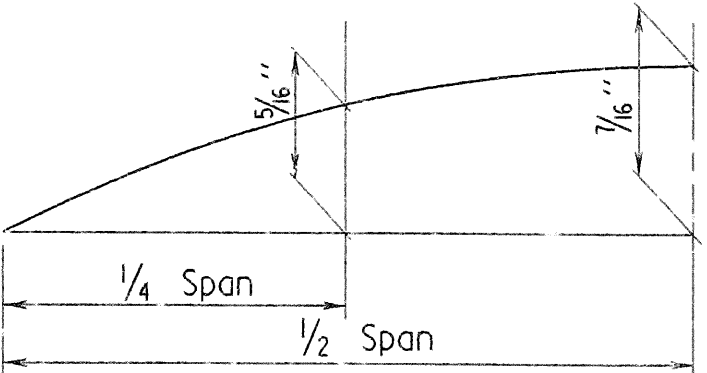
No Scale



Varies from 0" at edge of Bridge to 4 3/8" at C.L. Bridge (At C.L. Joint)

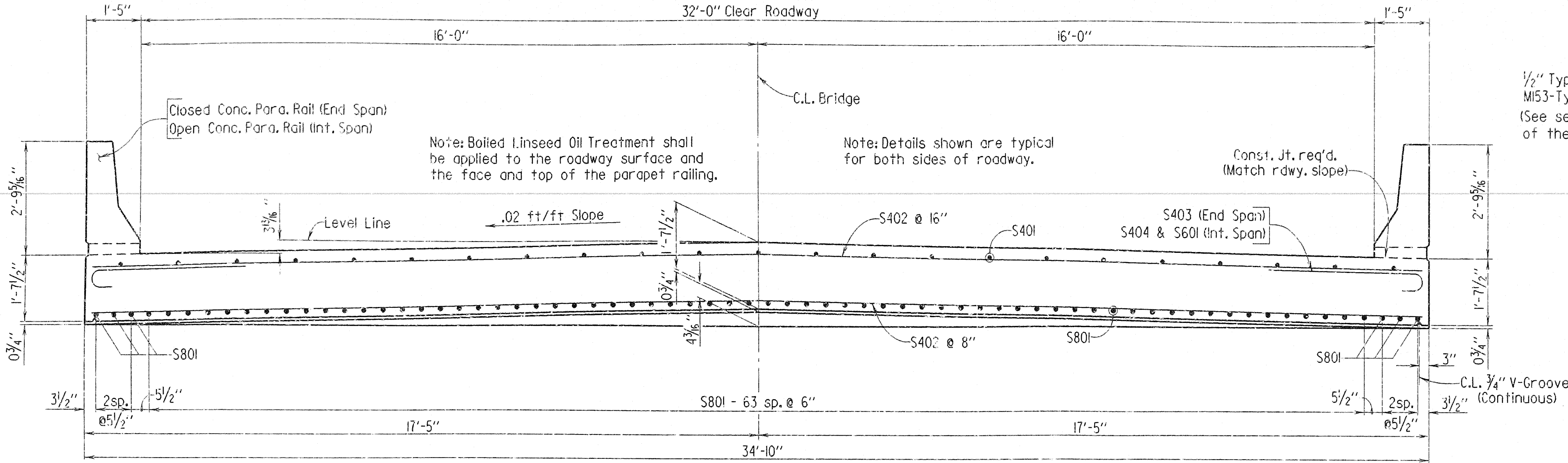
RISER DETAIL

No Scale



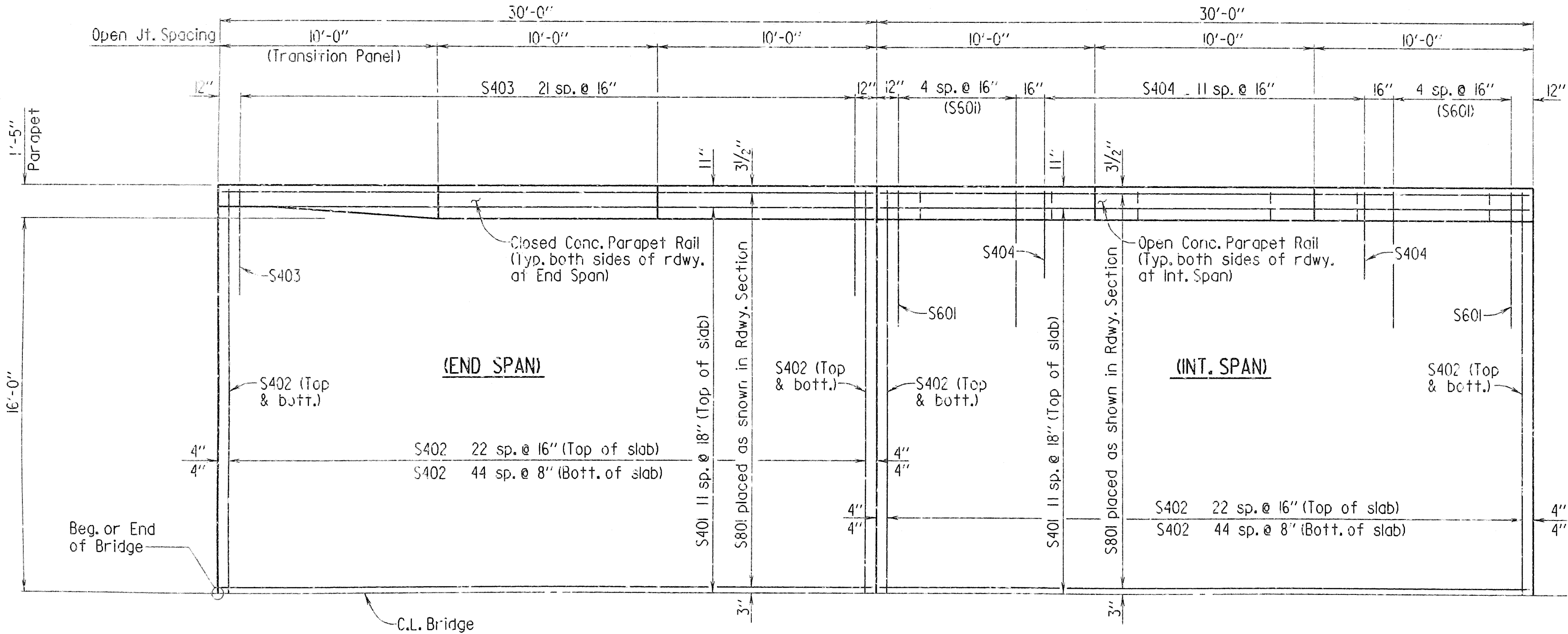
DEAD LOAD CAMBER DIAGRAM

No Scale



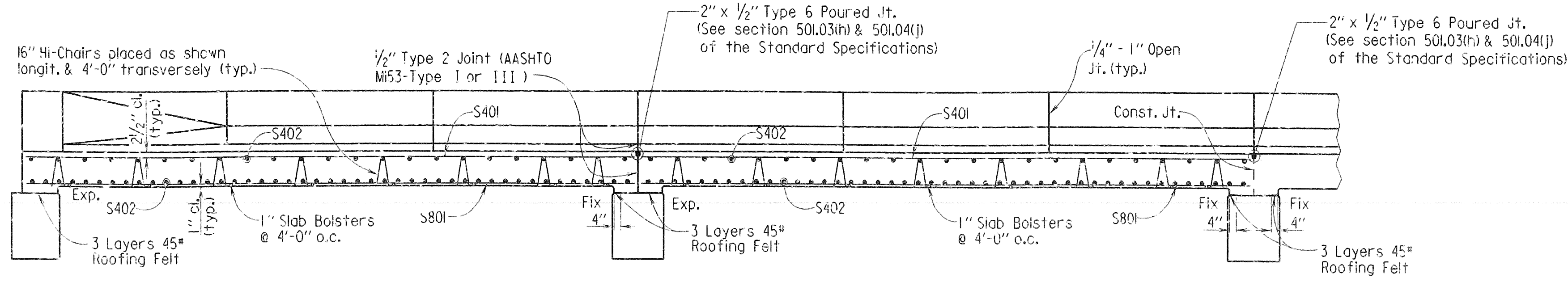
TYPICAL SECTION THRU ROADWAY

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



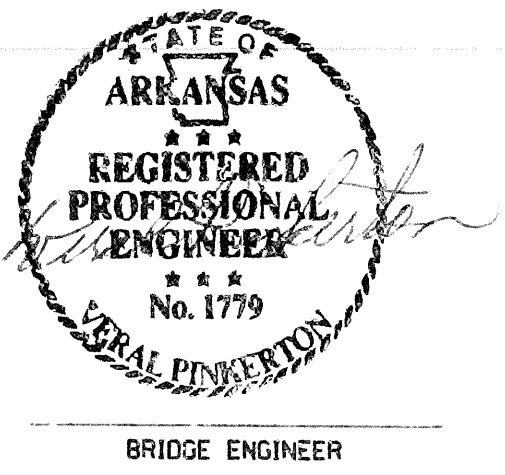
HALF REINFORCING PLAN

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



LONGITUDINAL SECTION ALONG C.L. BRIDGE

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



SHEET 1 OF 2 DETAILS OF 30'-0" R.C. SLAB SPANS

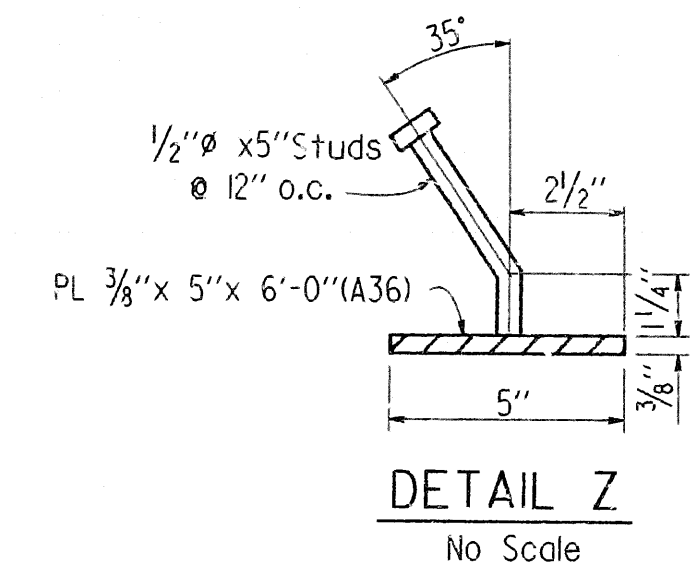
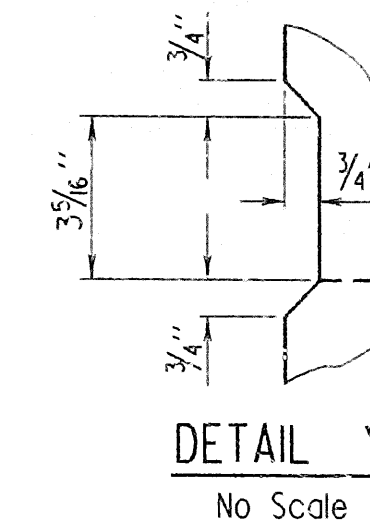
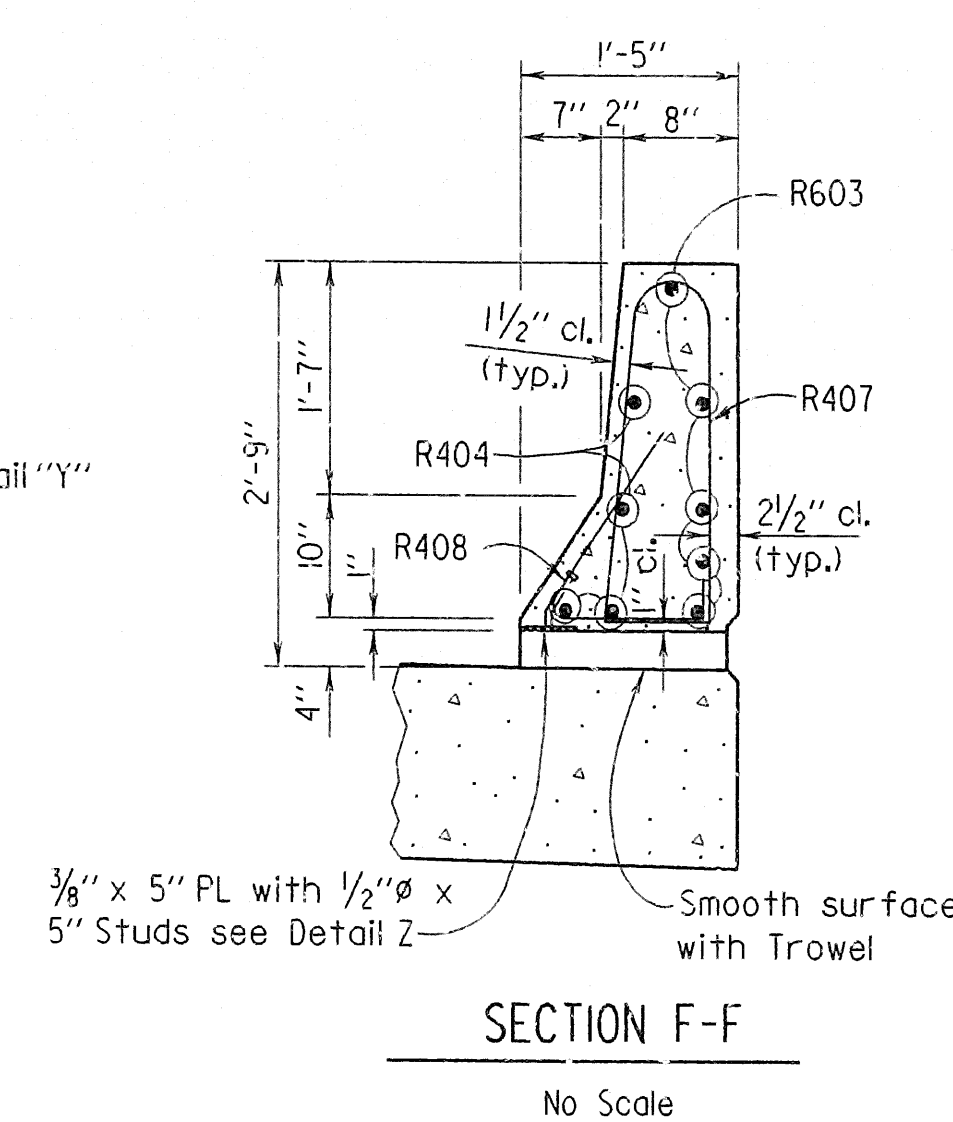
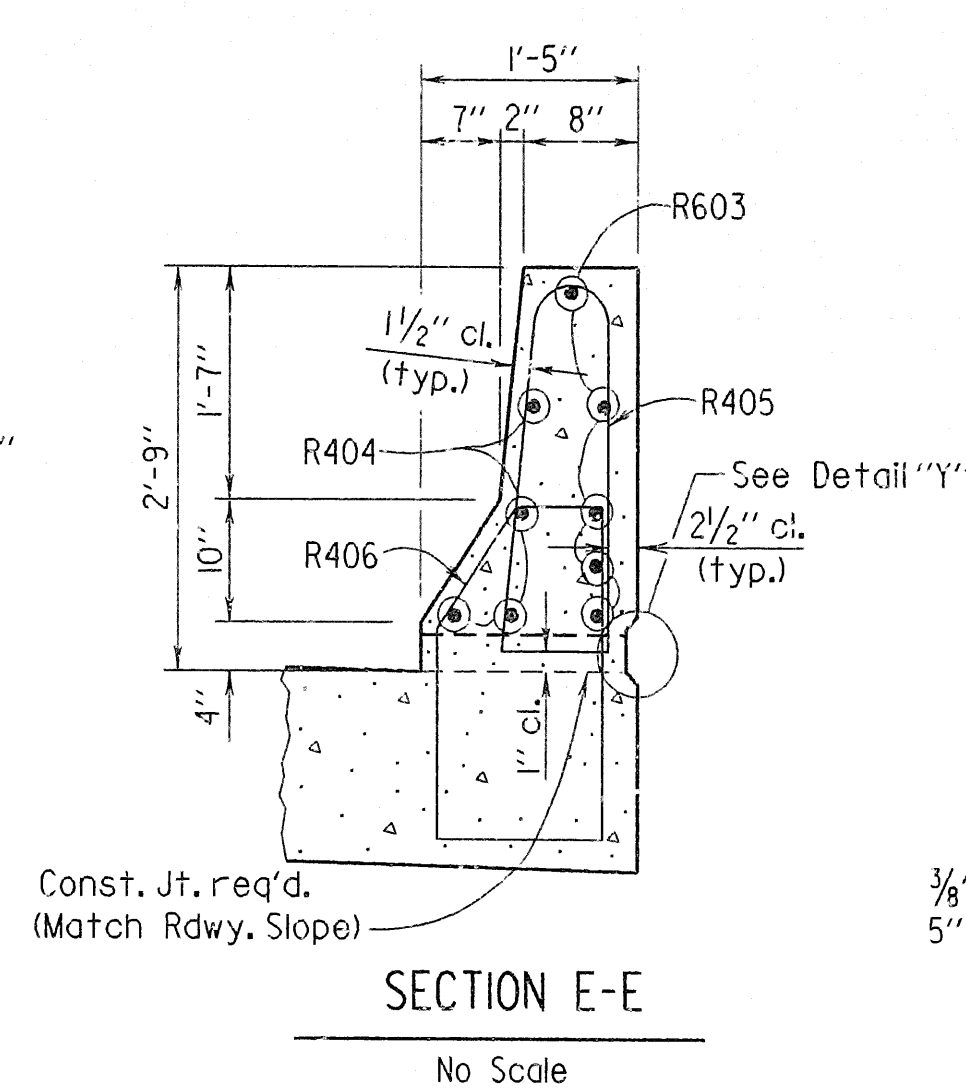
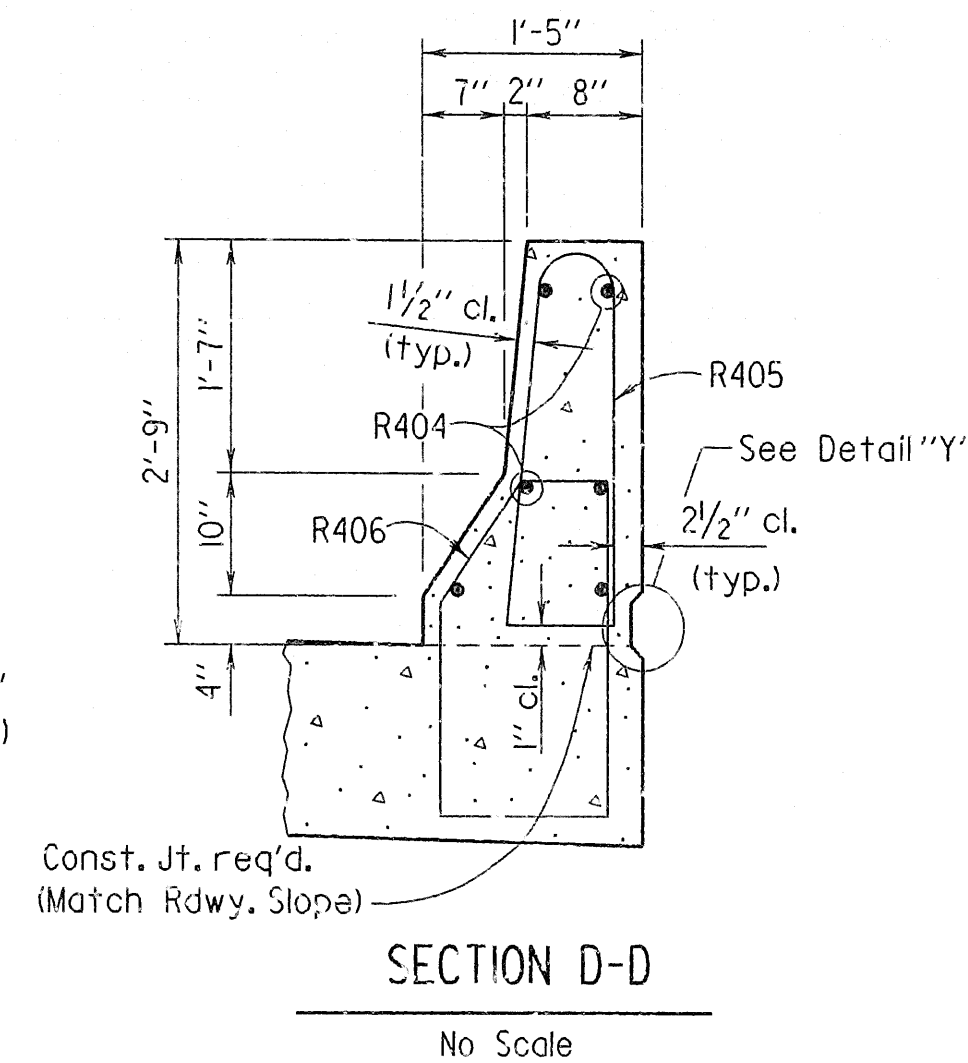
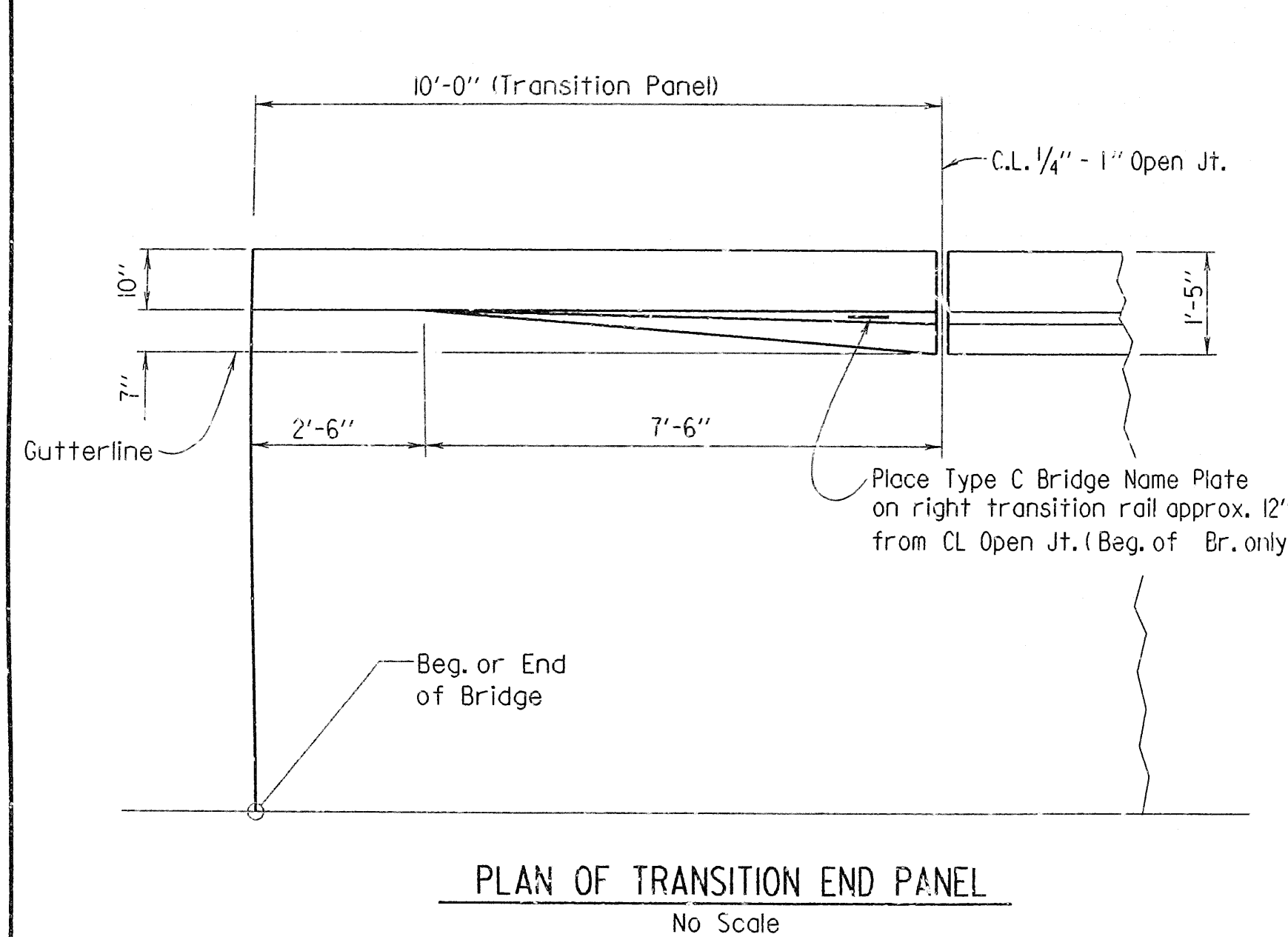
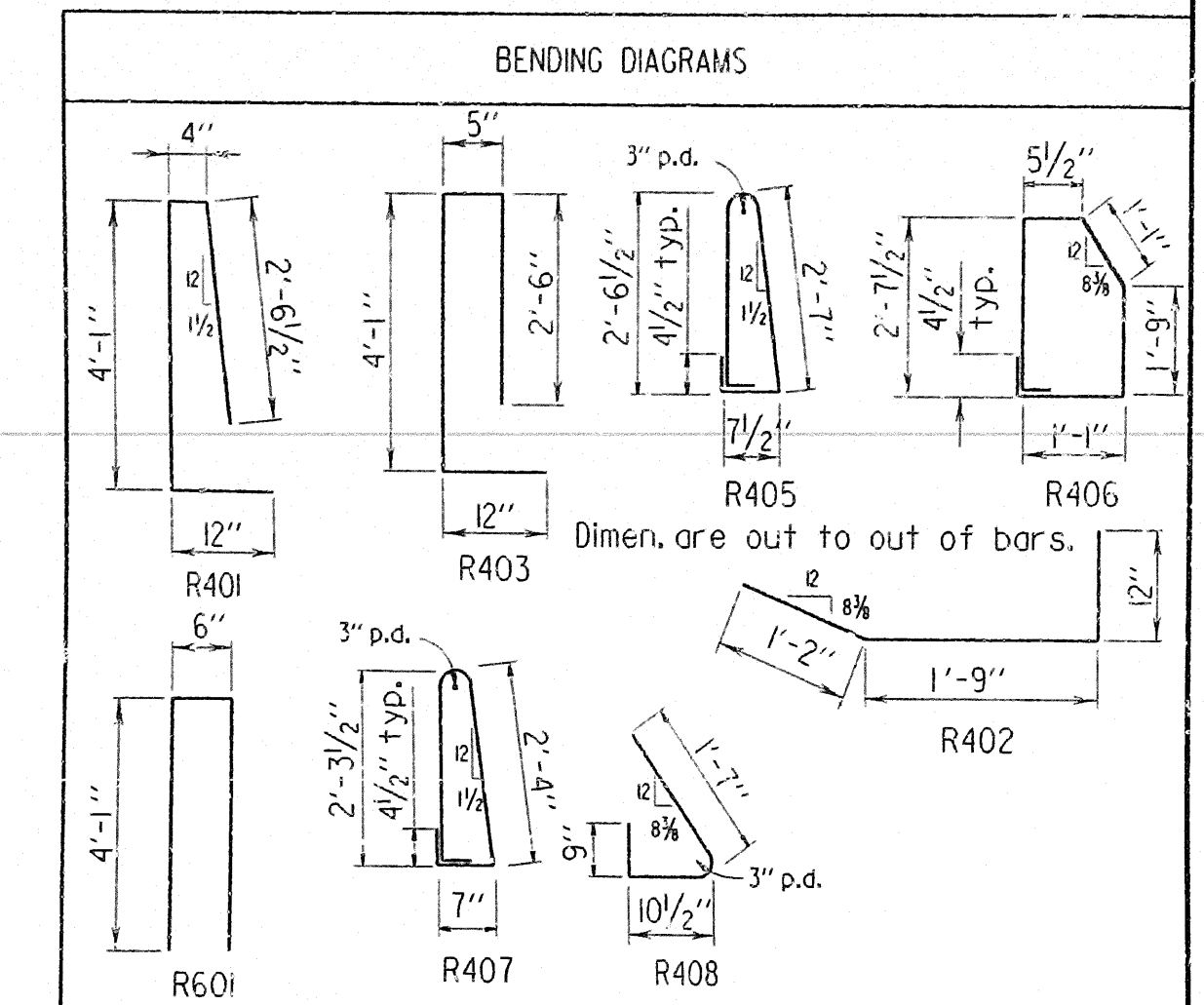
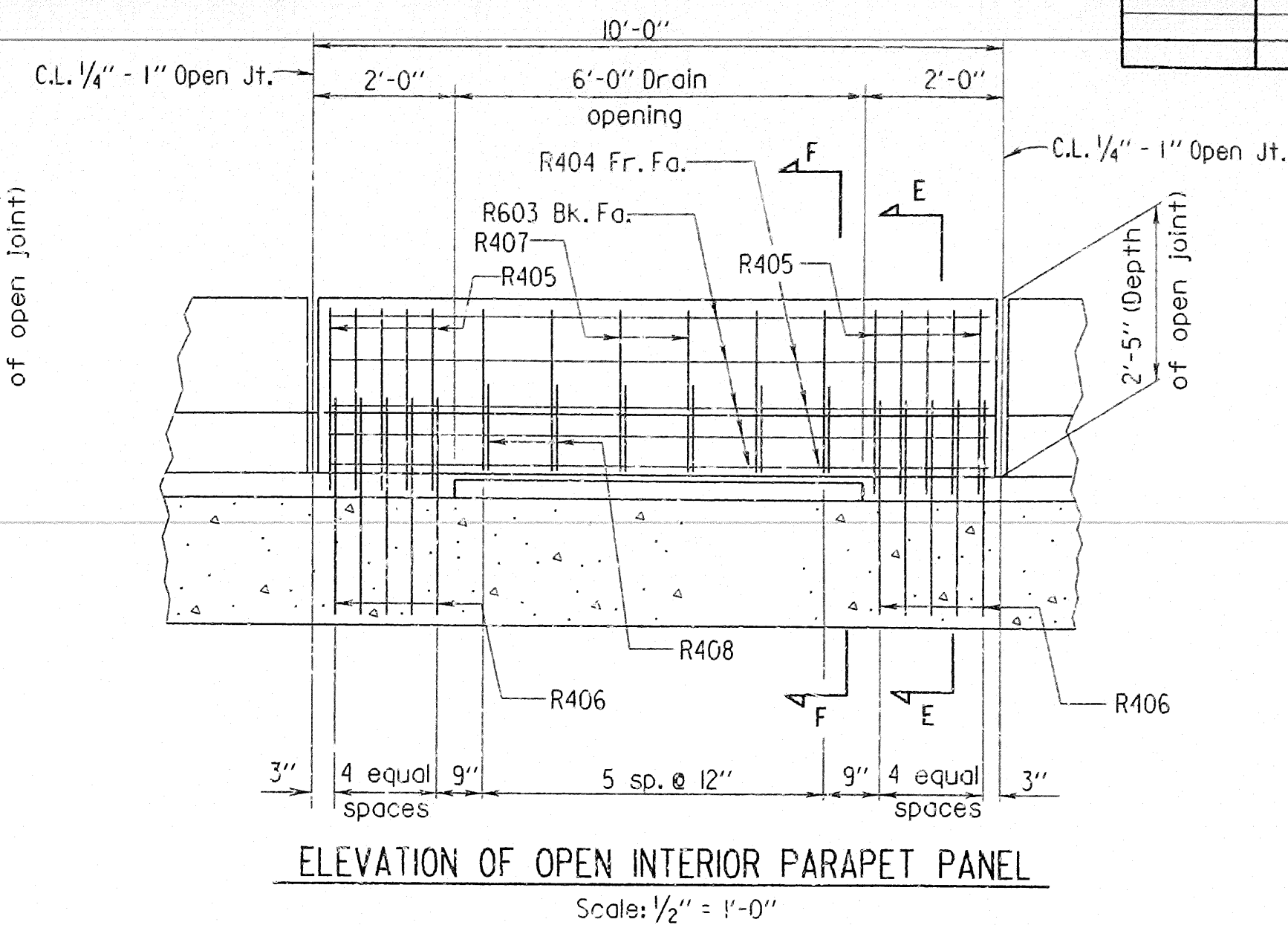
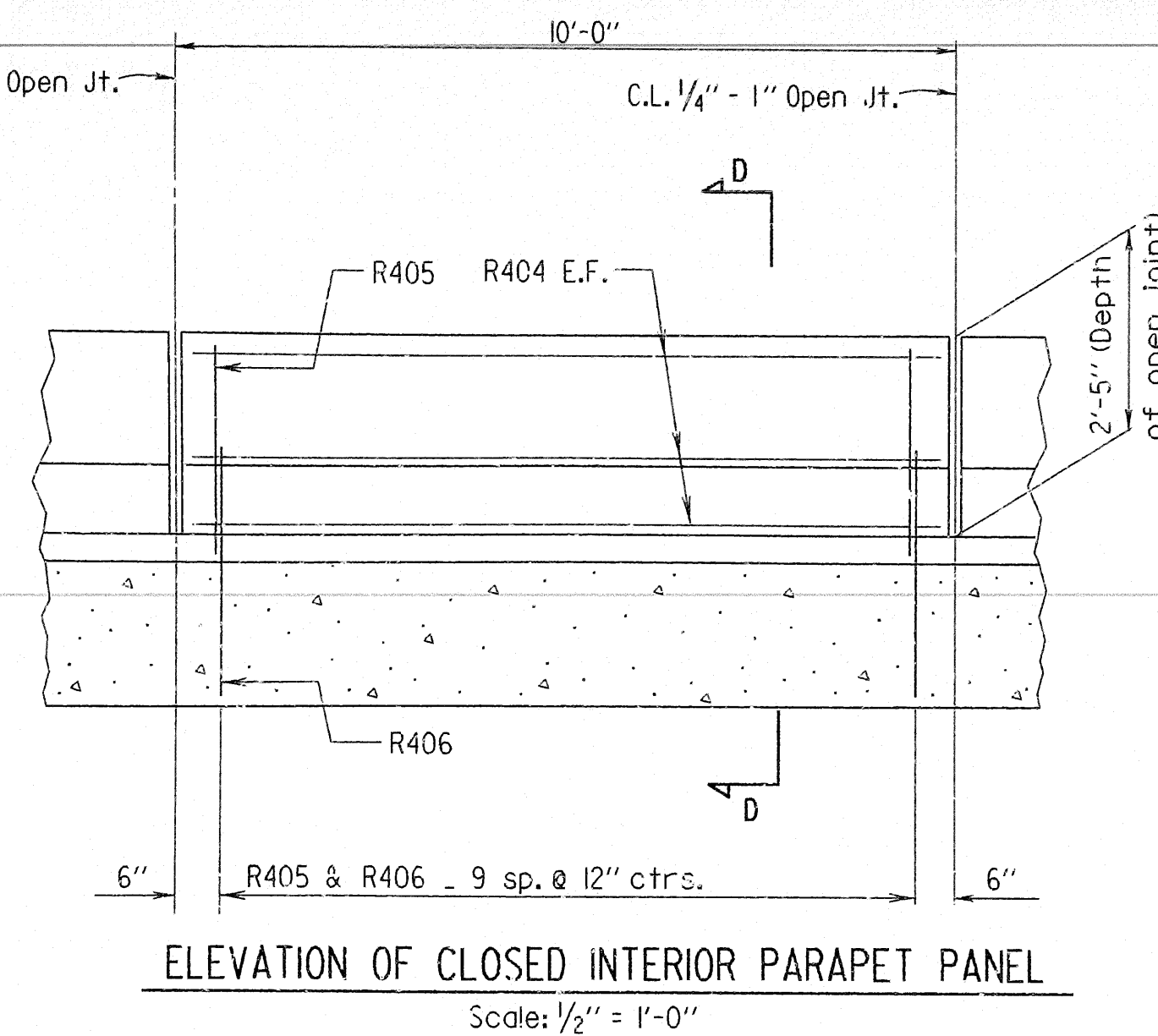
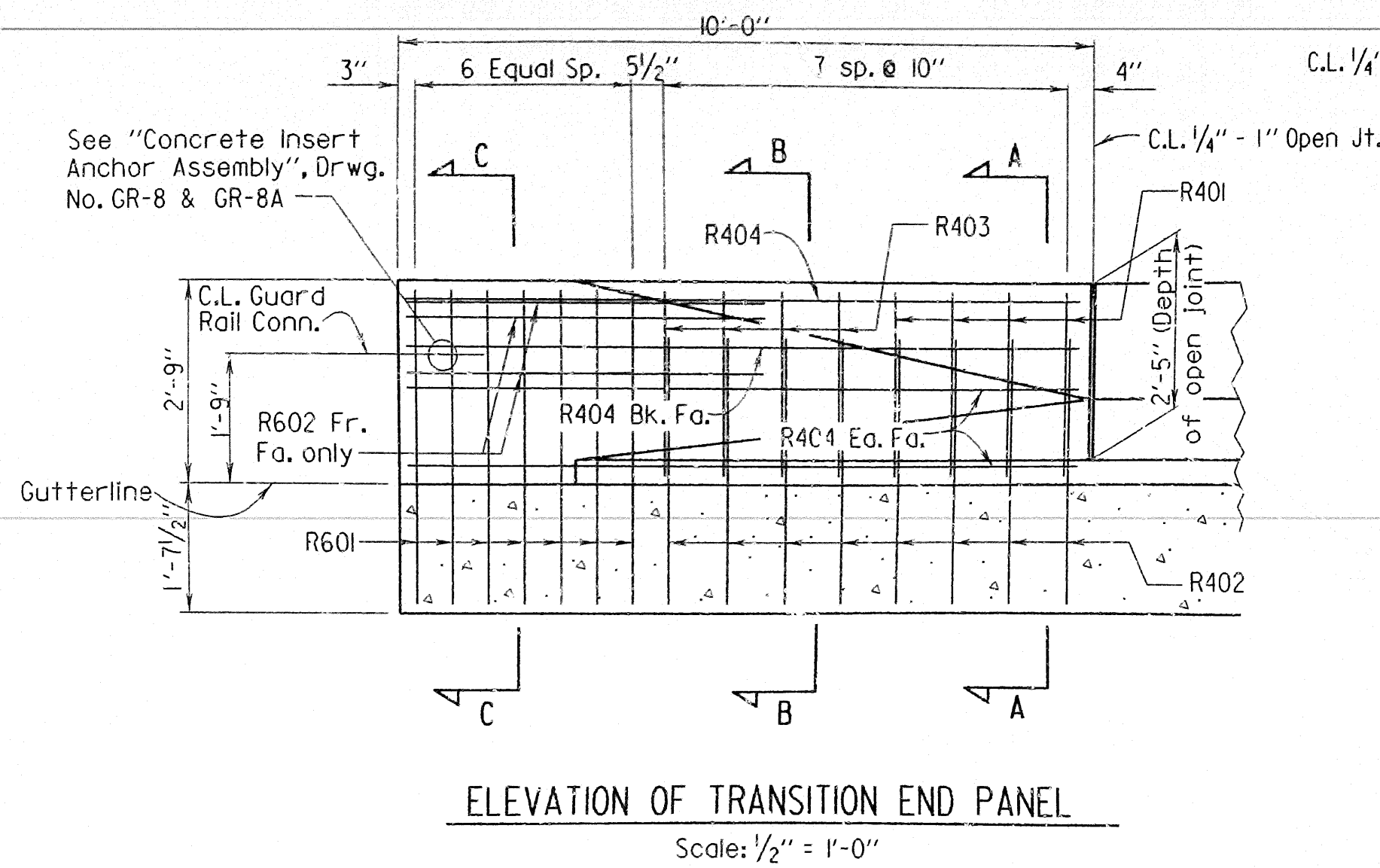
ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

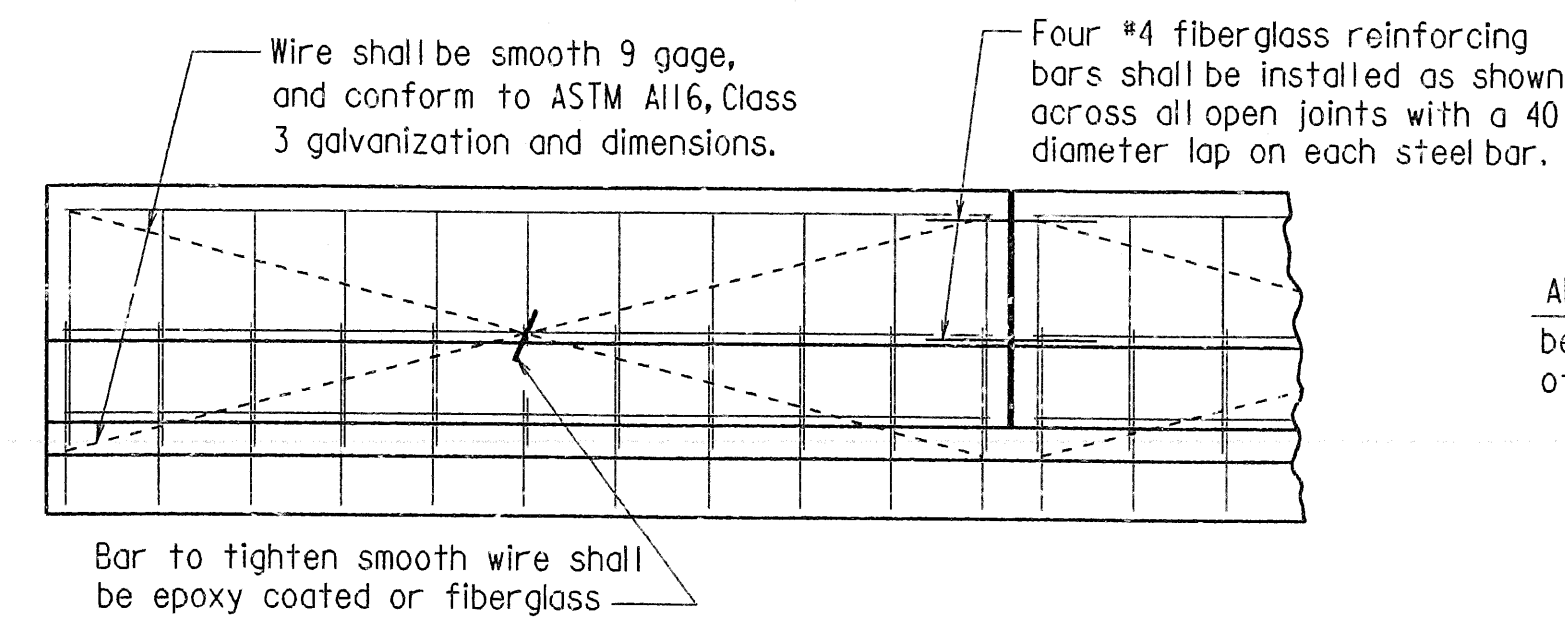
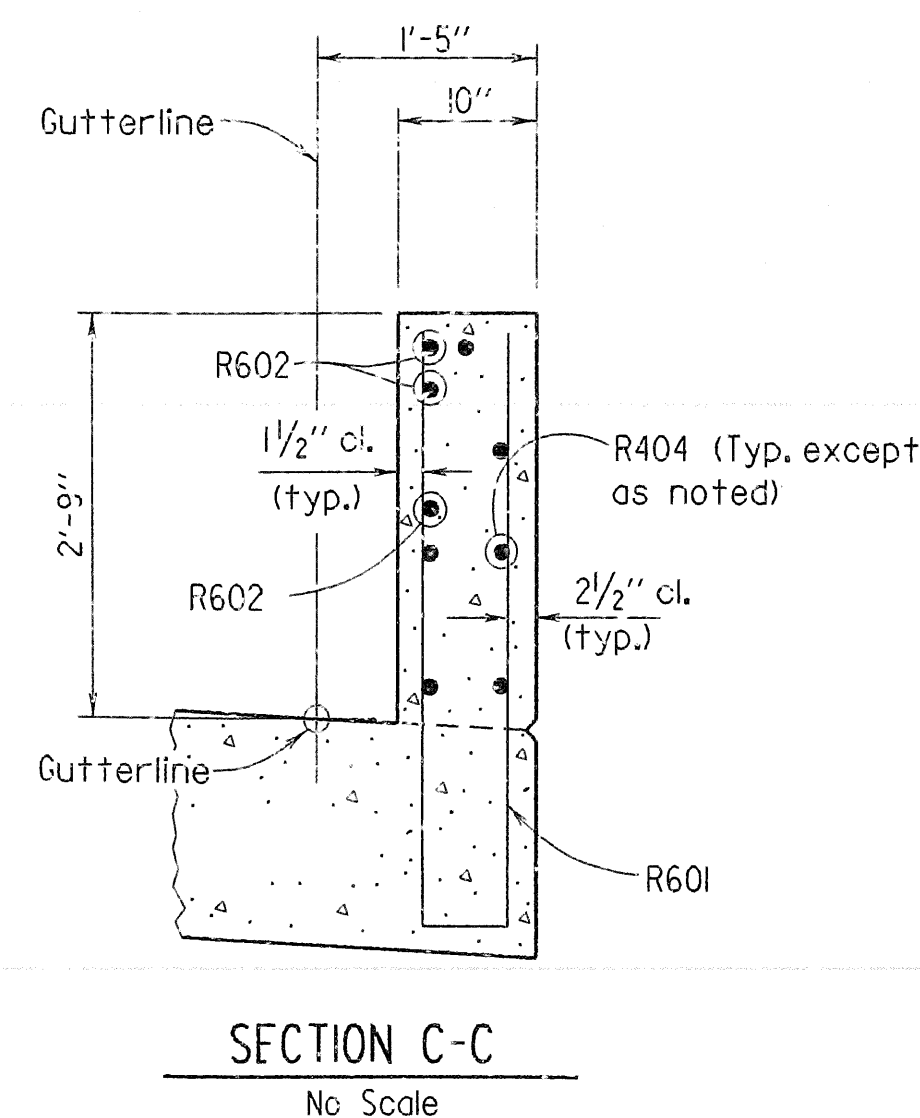
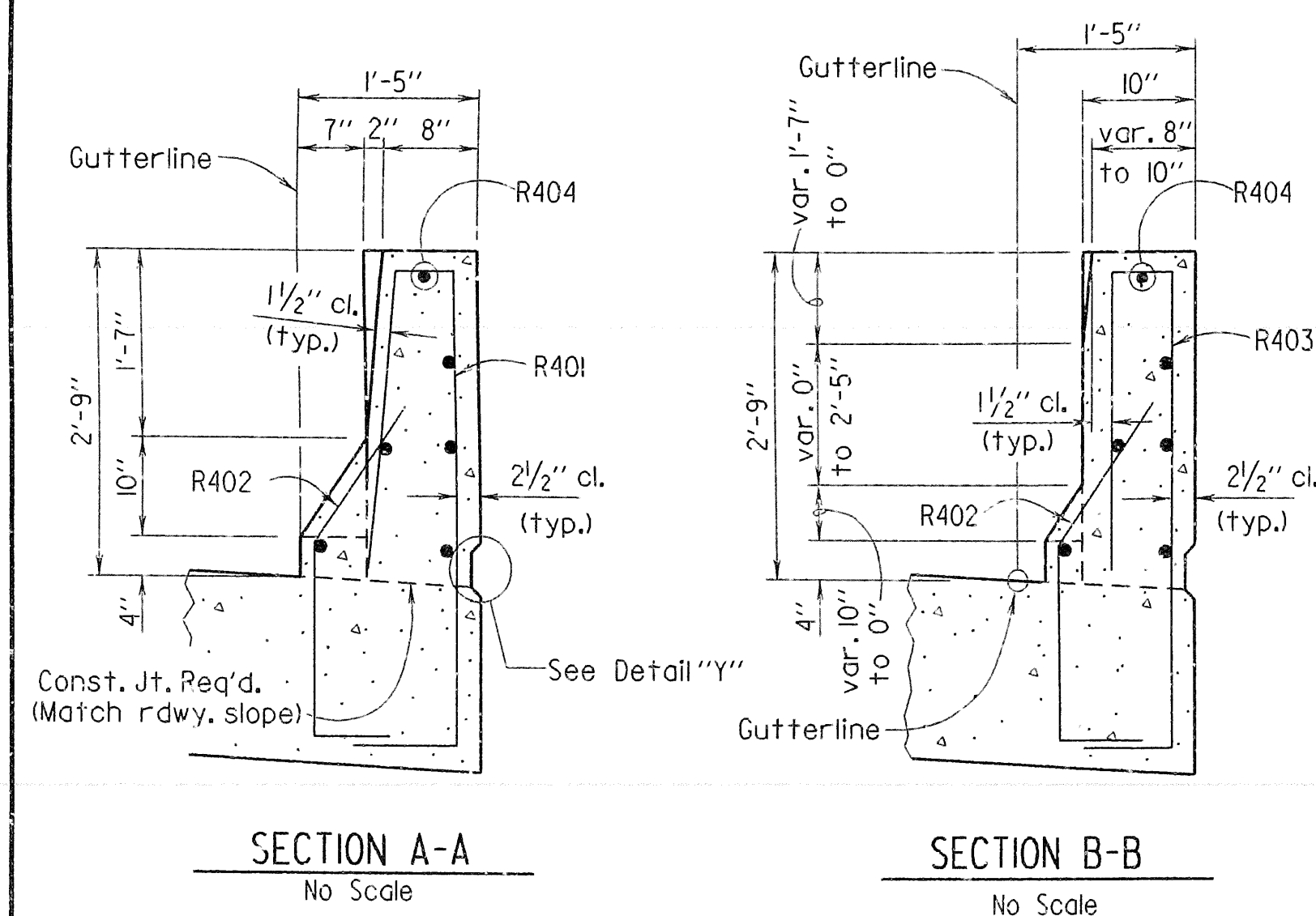
DRAWN BY: KMG DATE: 3 Nov 92
CHECKED BY: J. H. M. DATE: 4-93
DESIGNED BY: J. H. M. DATE: 6-93
BRIDGE NO. 6558 DRAWING NO. 34137

Note: For location of open and closed parapet panels, see Reinforcing Plan.

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.		004985	31	84
				6558	RAIL DTLS.		34138	



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 plates 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. 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.



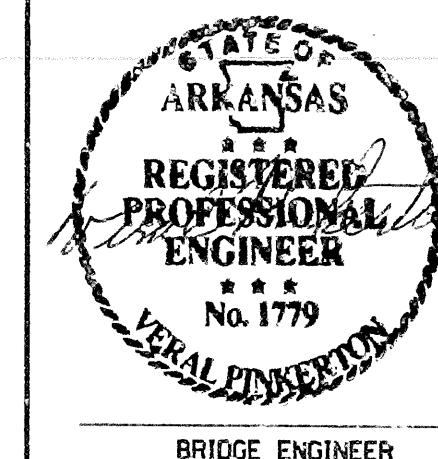
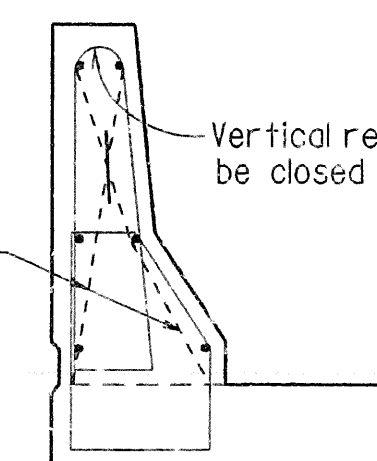
All panels shall be braced as shown to prevent racking. All open joints shall be sawed as soon as practical to a minimum width of 1/4". To control cracking before sawing all joints must be grooved before the concrete is set. Sawing of the joints must be controlled so it will follow the grooved joint.

DETAILS OF OPTIONAL SLIPFORMING OF CONCRETE PARAPET RAIL (OPEN OR CLOSED)

1/2" = 1'-0"

The extruded parapet shall conform to the horizontal and vertical lines shown on the plans or as directed by the Engineer and shall present a smooth, uniform appearance and texture. Exposed surfaces may be given a light brush finish or a Class 3, Sprayed Finish, in place of Class 2, Rubbed Finish.

All smooth wire bracing shall be placed on the inside faces of the reinforcing



SHEET 2 OF 2
DETAILS OF
30'-0" R.C. SLAB SPANS

ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: 3 Nov 92
CHECKED BY: FBM DATE: 7-93 SCALE: As Shown
DESIGNED BY: FBM DATE: 6-93
BRIDGE NO. 6558 DRAWING NO. 34138

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3-11-94	3-11-94			6	ARK.			
						JOB NO.	004985	32
								84
							6559	LAYOUT
								34139

GENERAL NOTES

BENCH MARK: Chiseled Square on Abutment 12' Right of C.L. Survey
Sta. 427+68.00, Elev. 419.61.

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

FOOTINGS: Footings shall be set a minimum of 1'-6" into material designated as medium hard shale on the boring legend. 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 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 roadway surface and to the face and top of the concrete parapet rail.

DETAIL DRAWINGS: DRAWING NO.
End Bents 34140
Int. Bents 34141
35' R.C. Deck Girder Spans 34142 thru 34144
Type C Bridge Name Plate 2389A
Embankment Construction 1888A
Dumped Riprap and Filter Blanket 1891F
Computing Excavation for Structures 1891F
Type A Approach Gutters 2016A & 2017

EXISTING BRIDGE: Existing bridge No. M1703 (log mile 08.10) is 22' wide and 62' long and consists of a steel superstructure supported by a rubble masonry substructure. The existing bridge is located approximately along C.L. Survey.

REMOVAL AND SALVAGE: Existing bridge (M1703) shall be removed in accordance with section 205 of the Standard Specifications. All material from the existing bridge shall become the property of the contractor.

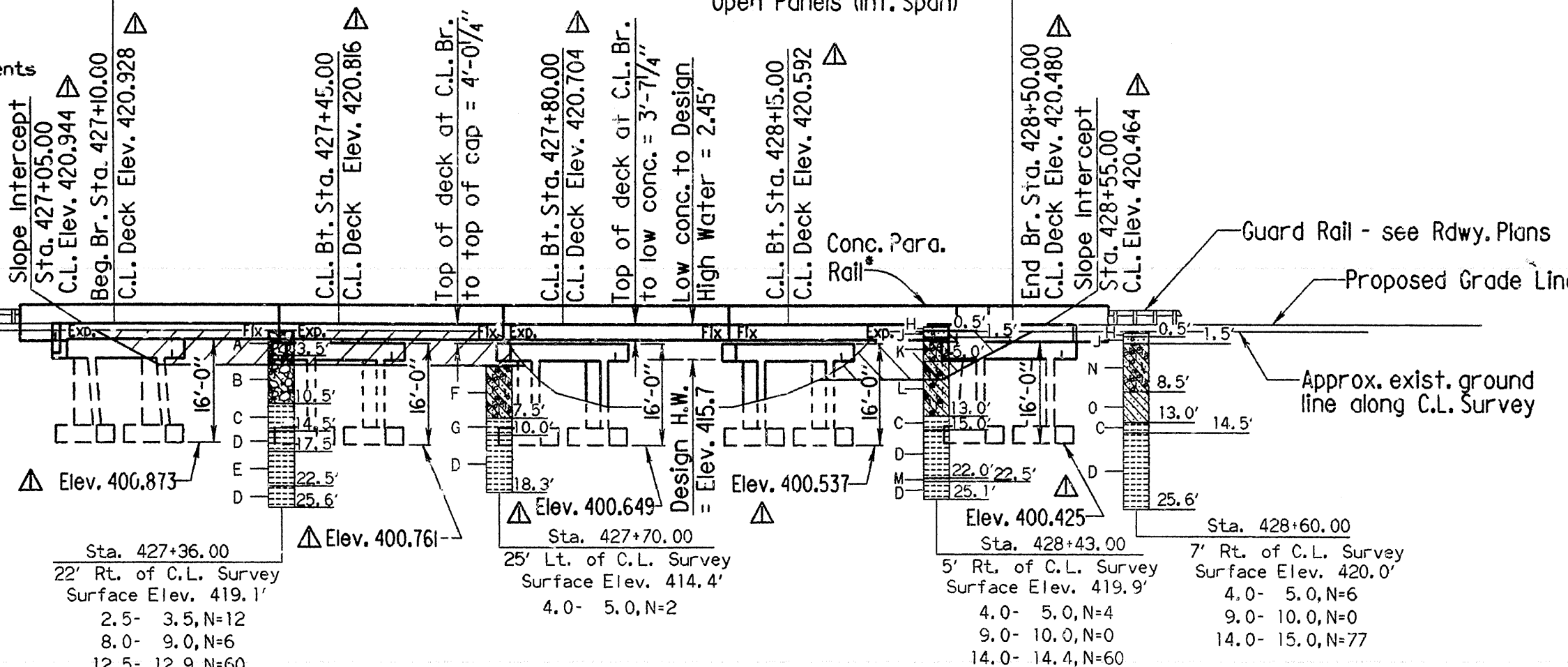
TEMPORARY BRIDGE: Construct a 75' long temporary bridge approximately 45' upstream. The temporary bridge shall have a minimum roadway width of 20', a minimum live load capacity of H15 and a minimum deck elevation of 418.0. See section 603 of the Standard Specifications. See drawing numbers 2421 thru 2424 for standard temporary bridge details. If timber piling and pine timber are used on this temporary bridge structure, the materials shall be treated with a preservative according to the standard specifications. See roadway plans for actual detour grade and alignment.

PLAN

- Boring Legend**
- A-Moist, medium dense, brown sand with clay seams, sandstone fragments, cobbles and some organic matter
 - B-Moist, medium stiff, brown sandy, silty clay with sandstone fragments and cobbles
 - C-Medium hard, gray and brown weathered shale
 - D-Medium hard, dark gray shale
 - E-Medium hard, dark gray fractured shale
 - F-Wet, soft, brown sandy, silty clay with sandstone fragments
 - G-Medium hard, gray weathered shale
 - H-Asphalt pavement
 - J-Moist, loose, brown sand and gravel
 - K-Moist, soft, brown and gray sandy, silty clay with sandstone fragments
 - L-Wet, very soft to soft, gray sandy, silty clay with organic matter
 - M-Medium hard, dark gray weathered shale
 - N-Moist, medium stiff, brown and gray sandy, silty clay with sandstone fragments
 - O-Moist, very soft, brown and gray clay with sand seams

Total Length of Bridge = 140'-0"
(Four 35' R.C. Deck Girder Spans)

Closed Panels (End Spans)
Open Panels (Int. Span)



ELEVATION

HYDRAULIC DATA

Drainage Area = 3.4 sq. mi.

FLOOD	FREQUENCY	DISCHARGE	NATURAL WATER SURFACE ELEV. **	WATER SURFACE ELEV. WITH BACKWATER
DESCRIPTION	YEARS	CFS	FEET	FEET
DESIGN	50	2810	415.7	N. A.
BASE	100	3430	416.0	417.7
EXTREME & OVERTOPPING	500	5450	417.1	419.3

Remarks

- * Historical Highwater Elev. = 417.4
- * Low Bridge Member Elev. = 416.88

** Unconstricted water surface elev. at proposed bridge location.

LAYOUT OF BRIDGE
OVER FLAT ROCK CREEK
(LOG MILE 8.10)
GREENWOOD - HWY. 22 BRS. & APPRS.
SEBASTIAN COUNTY
ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: 29 Sept 92
CHECKED BY: RJA DATE: 23 Jun 93 SCALE: 1" = 20'
DESIGNED BY: DATE:
BRIDGE NO. 6559 DRAWING NO. 34139

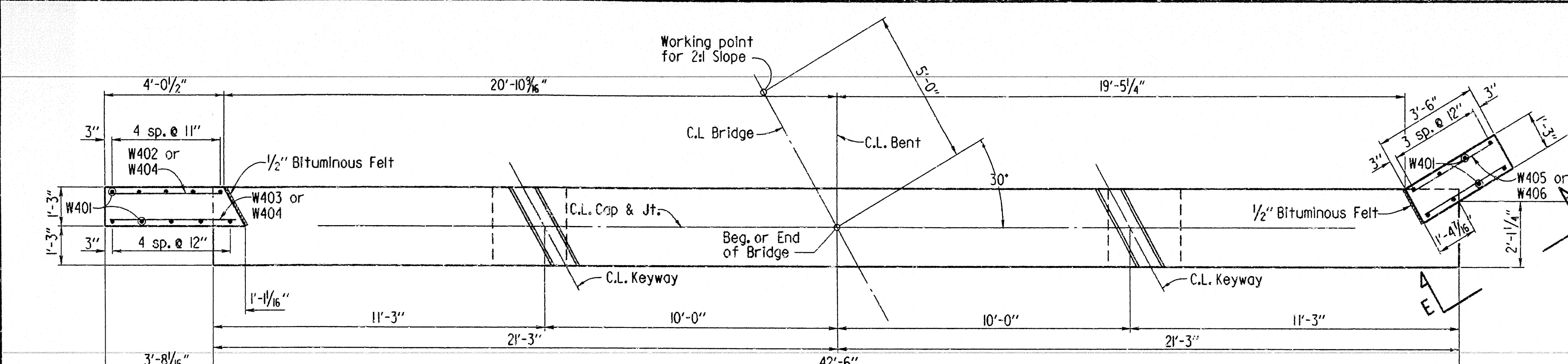


BRIDGE ENGINEER

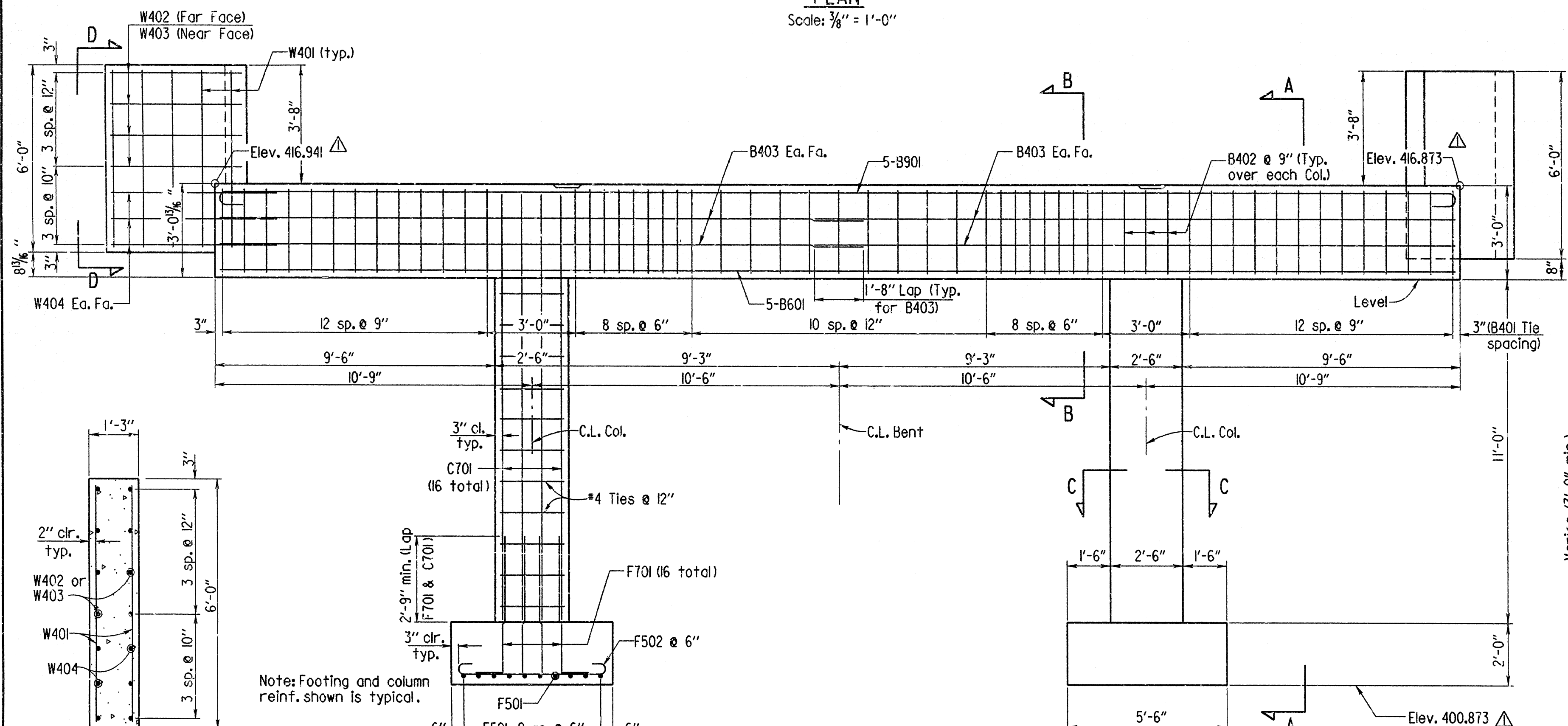
Revised bridge structure Elevations 3-11-94, KMG

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3-11-94	3-11-94			6	ARK.			
				JOB NO.		004985	33	84

6559 BENT DTLS. 34140

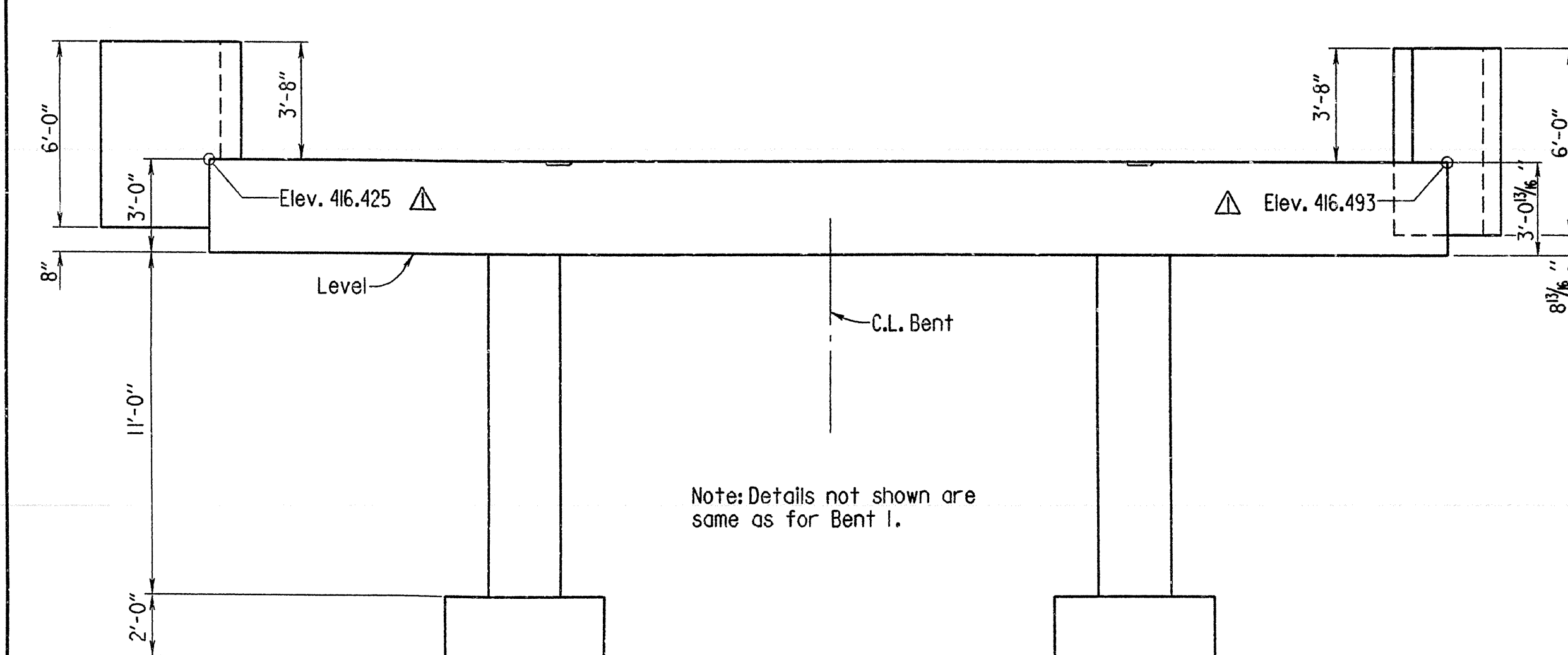


PLAN
Scale: 3/8" = 1'-0"

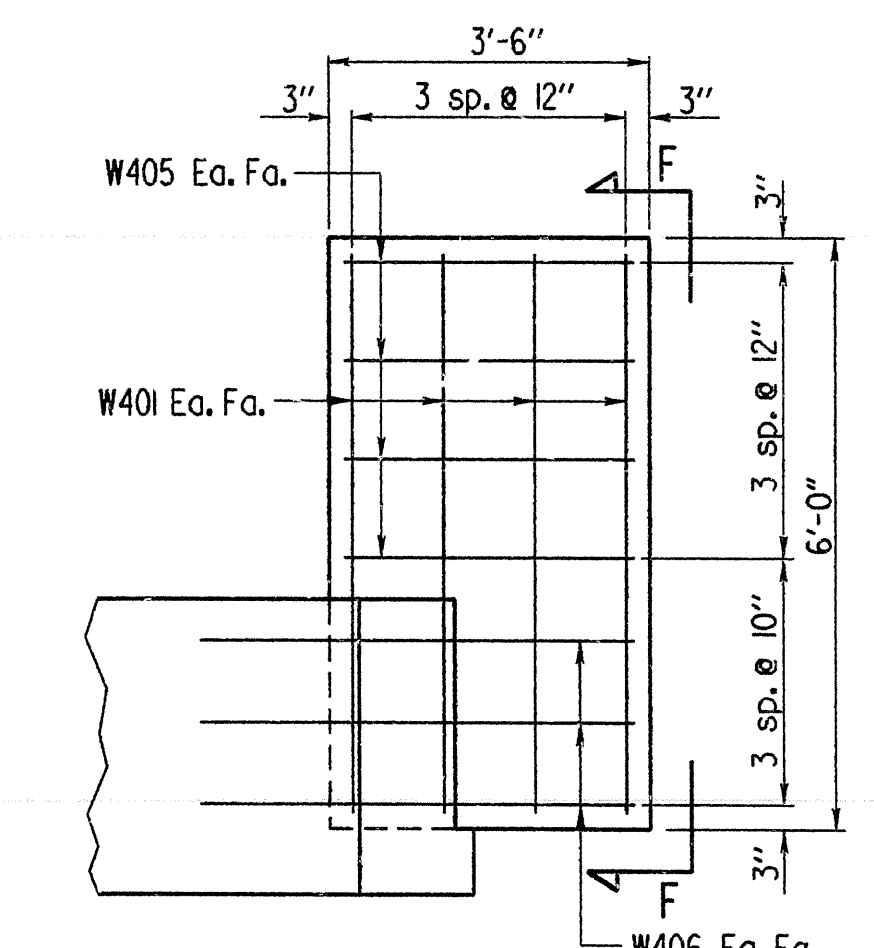


ELEVATION - BENT NO. 1 (LOOKING BACK)
Scale: 3/8" = 1'-0"

VIEW D-D
Scale: 1/2" = 1'-0"

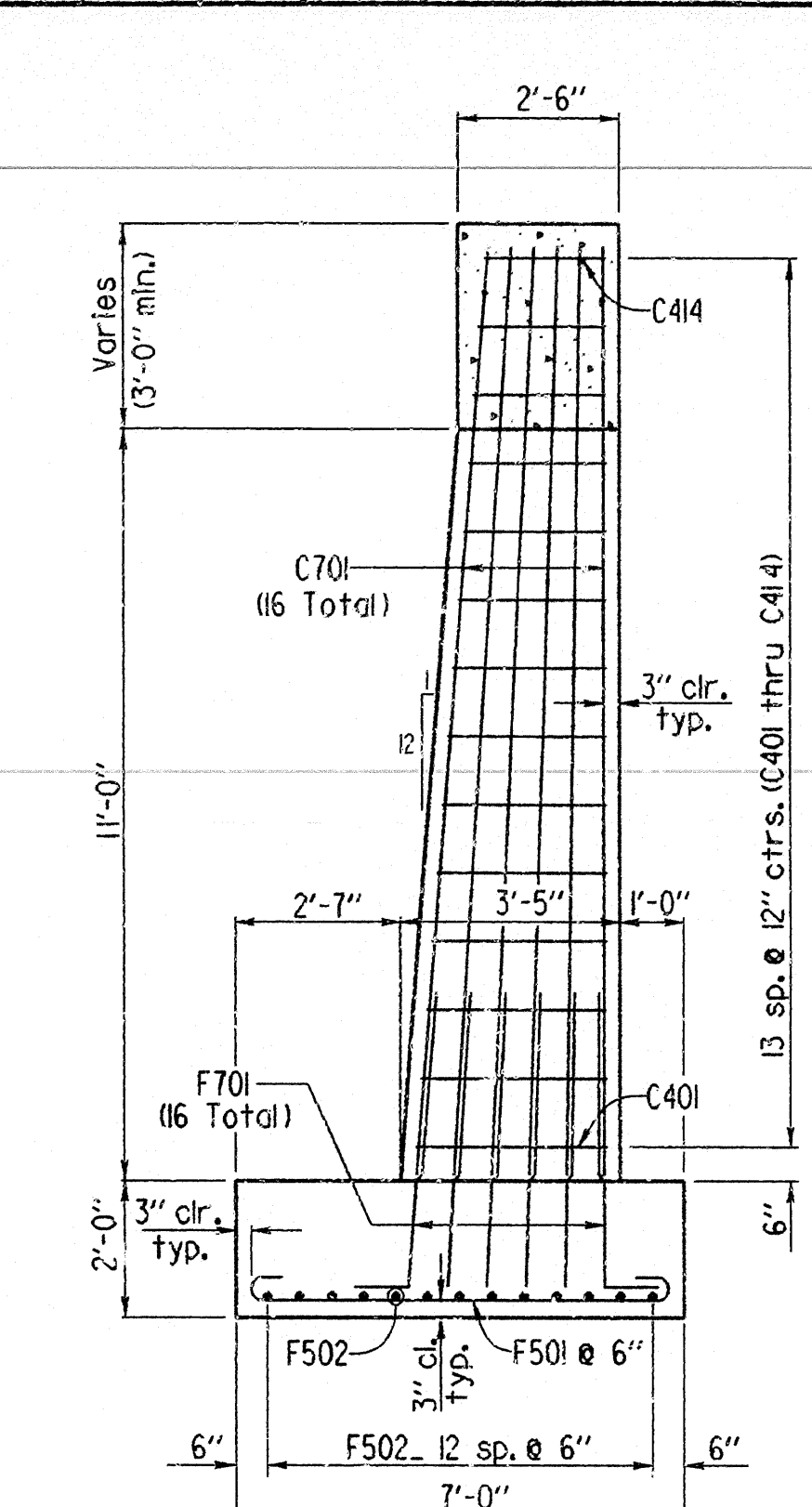


ELEVATION - BENT NO. 5 (LOOKING AHEAD)
Scale: 1/4" = 1'-0"

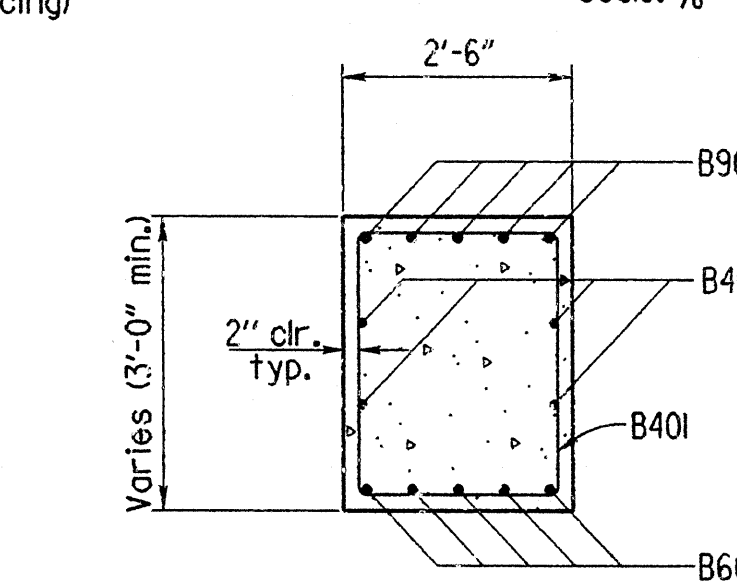


VIEW E-E
Scale: 1/2" = 1'-0"

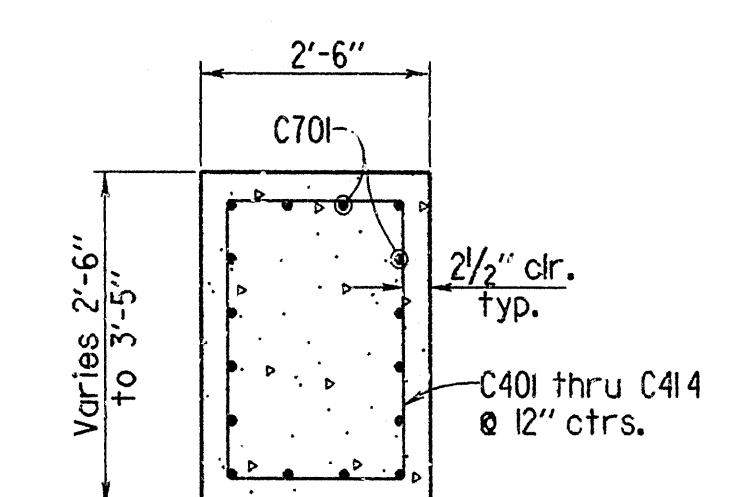
SECTION F-F
Scale: 1/2" = 1'-0"



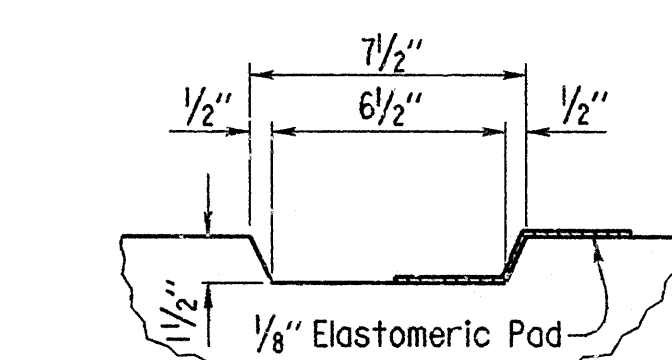
SECTION A-A
Scale: 3/8" = 1'-0"



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



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



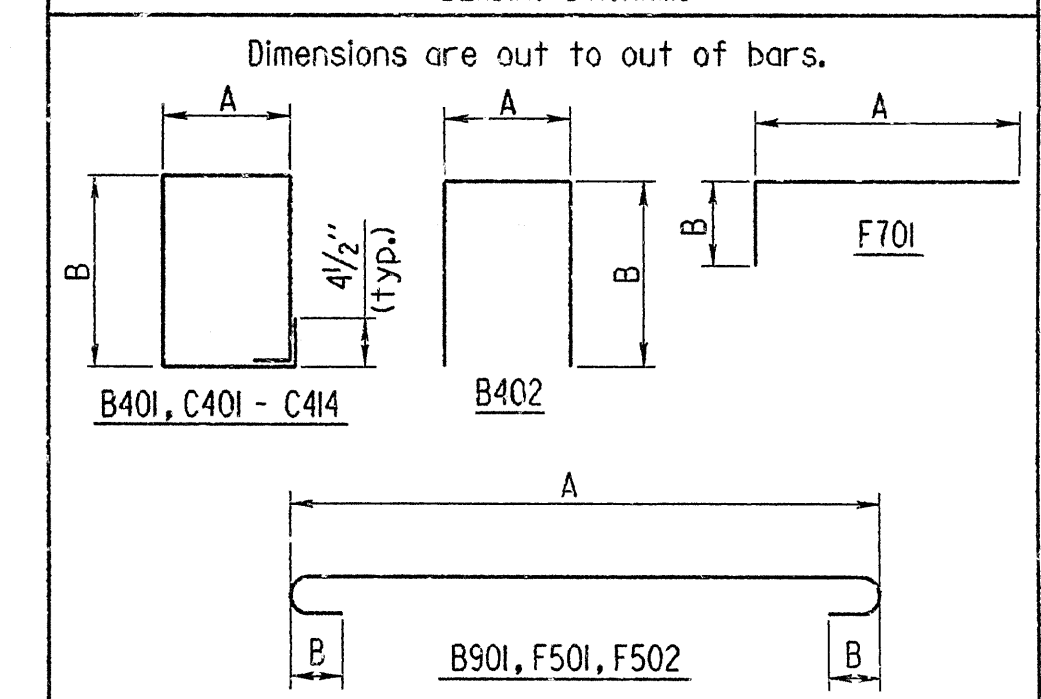
TYPICAL KEYWAY DETAIL
No Scale

Note:
1/8" Elastomeric Pad to be in full contact with Bent Cap surfaces when placing superstructure concrete.

BAR LIST (EACH BENT)

MARK	NO. REQ'D.	LENGTH	'A'	'B'	P.D.
B401	53	10'-0"	2'-8"	2'-2"	2"
B402	6	7'-4"	2'-8"	2'-2"	2"
B403	8	21'-11"			Str.
B601	5	42'-2"			Str.
B901	5	44'-8"	42'-2"	10"	9"
C401 - C414	2 of each	Var. 10'-5" to 8'-3"	Var. 2'-11 1/2" to 1'-10 1/2"	2'-1"	2"
C701	32	13'-7"			Str.
W401	18	5'-8"			Str.
W402	4	3'-9"			Str.
W403	4	4'-3"			Str.
W404	6	5'-7"			Str.
W405	8	3'-2"			Str.
W406	6	4'-8"			Str.
F501	20	7'-8"	6'-6"	5"	3 3/4"
F502	26	6'-2"	5'-0"	5"	3 3/4"
F701	32	5'-6"	4'-6"	1'-2"	5 1/4"

BENDING DIAGRAMS

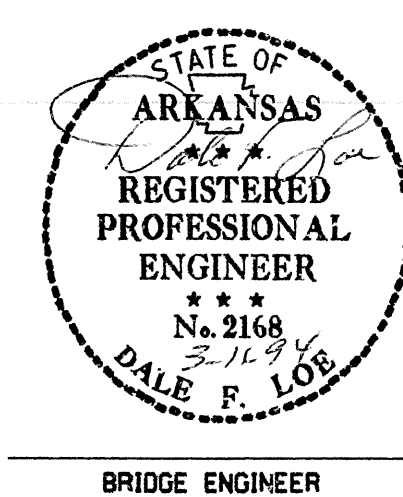


END BENT NOTES

All concrete shall be Class 'S' with a minimum 28 day compressive strength $f'_c = 3,500$ psi. Concrete shall be poured in the dry and 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.

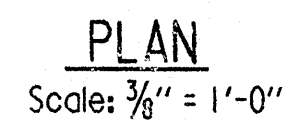
DETAILS OF
END BENT NOS. 1 AND 5

ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: KMG DATE: 17 Nov 92
CHECKED BY: RJA DATE: 12 Apr 93
DESIGNED BY: DATE:
BRIDGE NO. 6559 DRAWING NO. 34140



Revised Bent Elevations 3-11-94, KMG

①	6559	BENT DTLS.	34141
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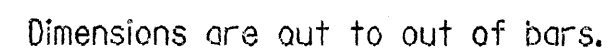
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△

BAR LIST (EACH BENT)

BAR LIST (EACH BENT)

Dimensions are out to out of bars.



50 Req'd. for Bt. 4

INT. BENT NOTES

All concrete shall be Class "S" with a minimum 28 day compressive strength $f'c = 3,500$ psi. Concrete shall be poured in the dry and 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.

DETAILS OF
INT. BENT NOS. 2 THRU 4

ROUTE 96 SEC. 2

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: 17 Nov 92

CHECKED BY: SPW DATE: 12 Apr 93 SCALE: As Shown

DESIGNED BY: J DATE:

BRIDGE NO. 6559 DRAWING NO. 34141

STATE OF
ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER

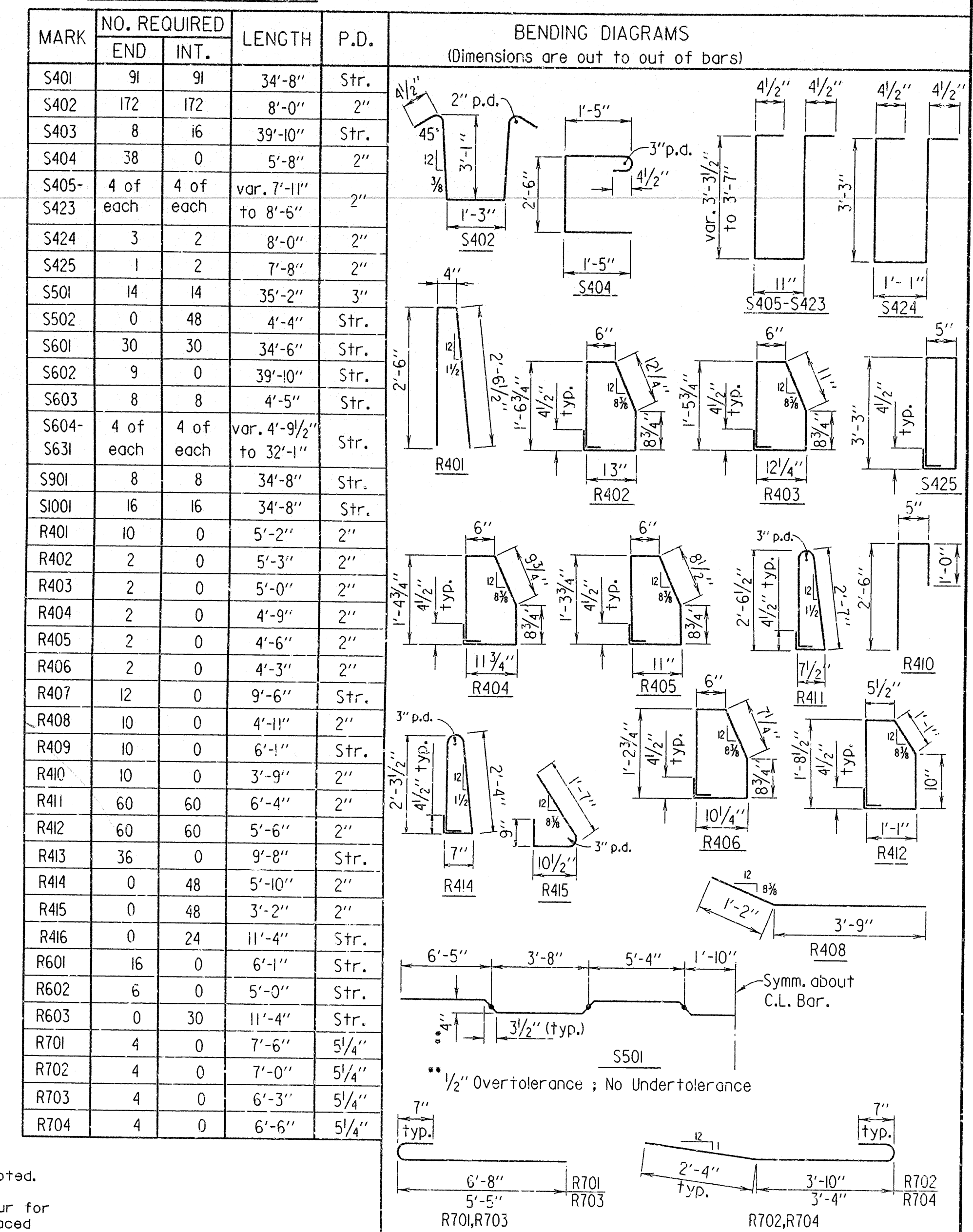
No. 2168
3-1-94
DALE F. LOE

BRIDGE ENGINEER

▲ Revised Bent Elevations 3-11-94.KMG

B4985X3. B2

BAR LIST (PER SPAN)



All concrete to be Class S(AE). All exposed corners to be chamfered $\frac{3}{4}$ " unless otherwise noted.

The concrete in the girders, end diaphragms, and deck shall be placed in one continuous pour for the interior spans. The concrete in the girders, end diaphragms, deck, and wings shall be placed in one continuous pour for the end spans.

Reinforcing steel to be ASTM A615 or A617, Grade 60. Bar supports for reinforcing bars will not be paid for directly, but shall be considered subsidiary to the item "Reinforcing Steel."

Elastomeric pad, Type 2 joint filler, Type 6 poured joint, and structural steel shall be measured and paid for as Class (S)(AE) Concrete. Elastomeric material shall meet the requirements of Section 808.02 of the Standard Specifications and shall be in one piece for the full width and length of the bearing.

Specifications: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 1993 edition, with applicable Special Provisions and Supplemental Specifications.

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

Design Live Loading: HS20

Method of Design: Load Factor

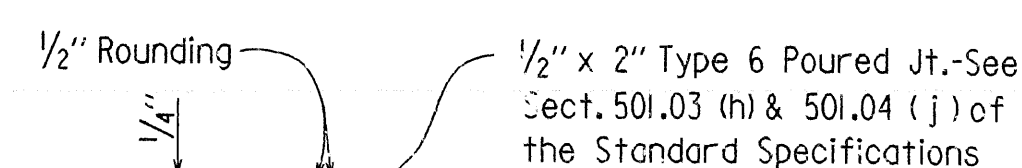
Dead Load: 1853#/lf. *

Live Load: 1.500 wheels + Impact.

Materials and Strengths:
Class S(AE) Concrete
Reinforcing Steel Grade 60

$f'_c = 4,000$ psi.
 $F_y = 60,000$ psi.

SLIP FORMING: An approved method of slip forming may be used. The contractor may submit his proposal and methods, prepared by a professional engineer, to the bridge engineer for approval. Approval must be obtained before slip forming work is begun. Payment will be based on plan quantities. Vertical joints and drainage slots may not be eliminated.



No Scale

Note: Detail shown at Exp. Joint. Fixed Joint same except eliminate Preformed Joint material.



No Scale

No Scale

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 plates 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. 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.

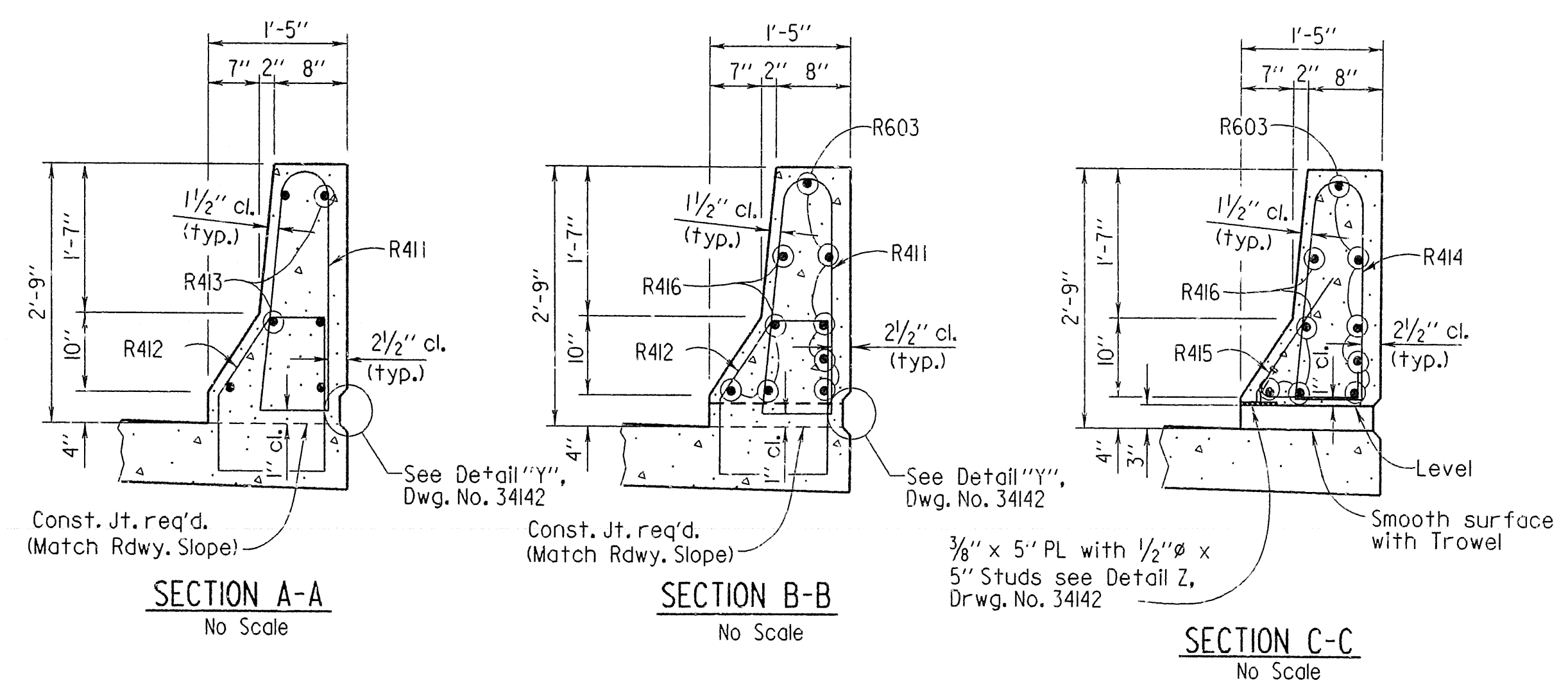
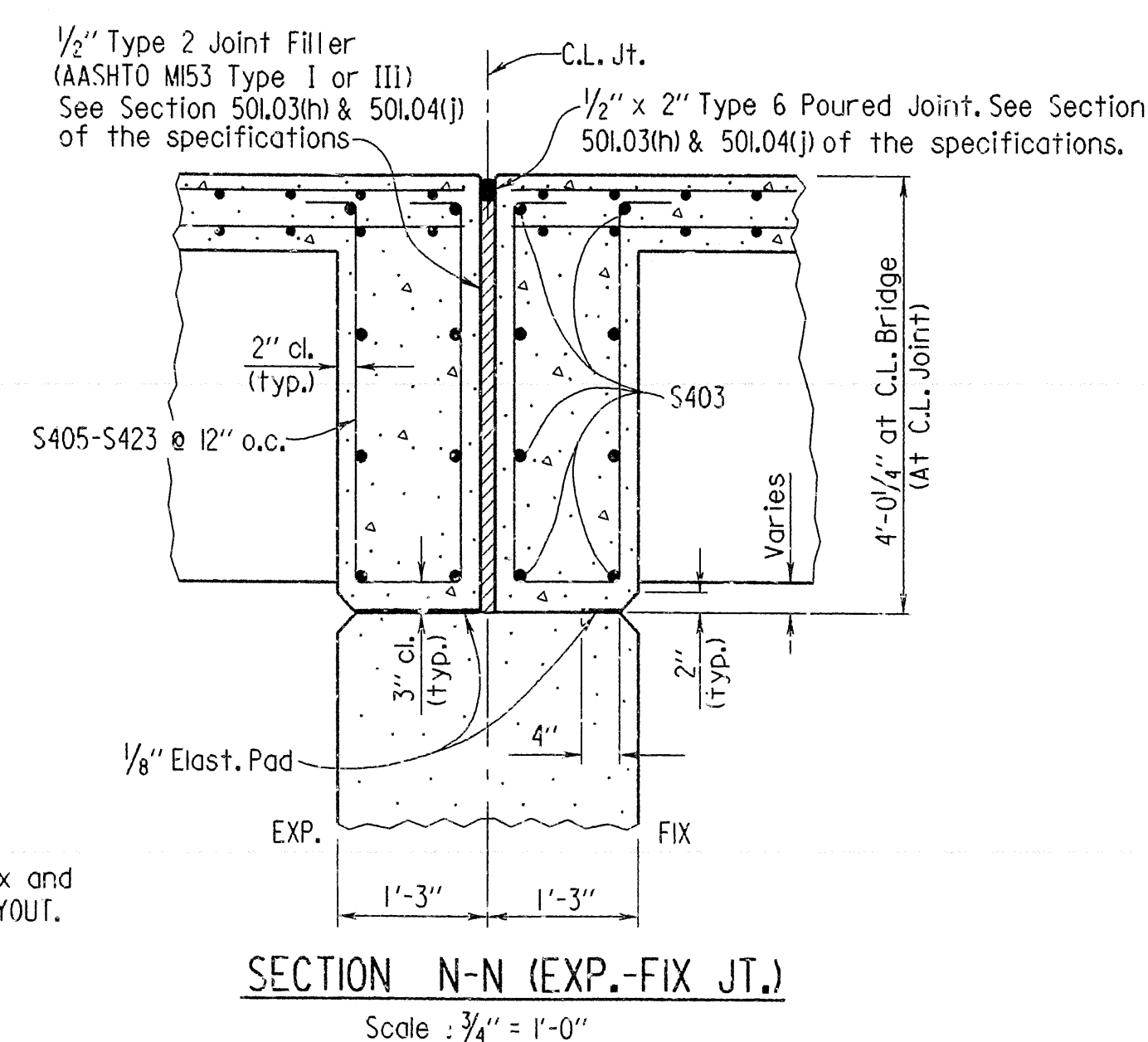
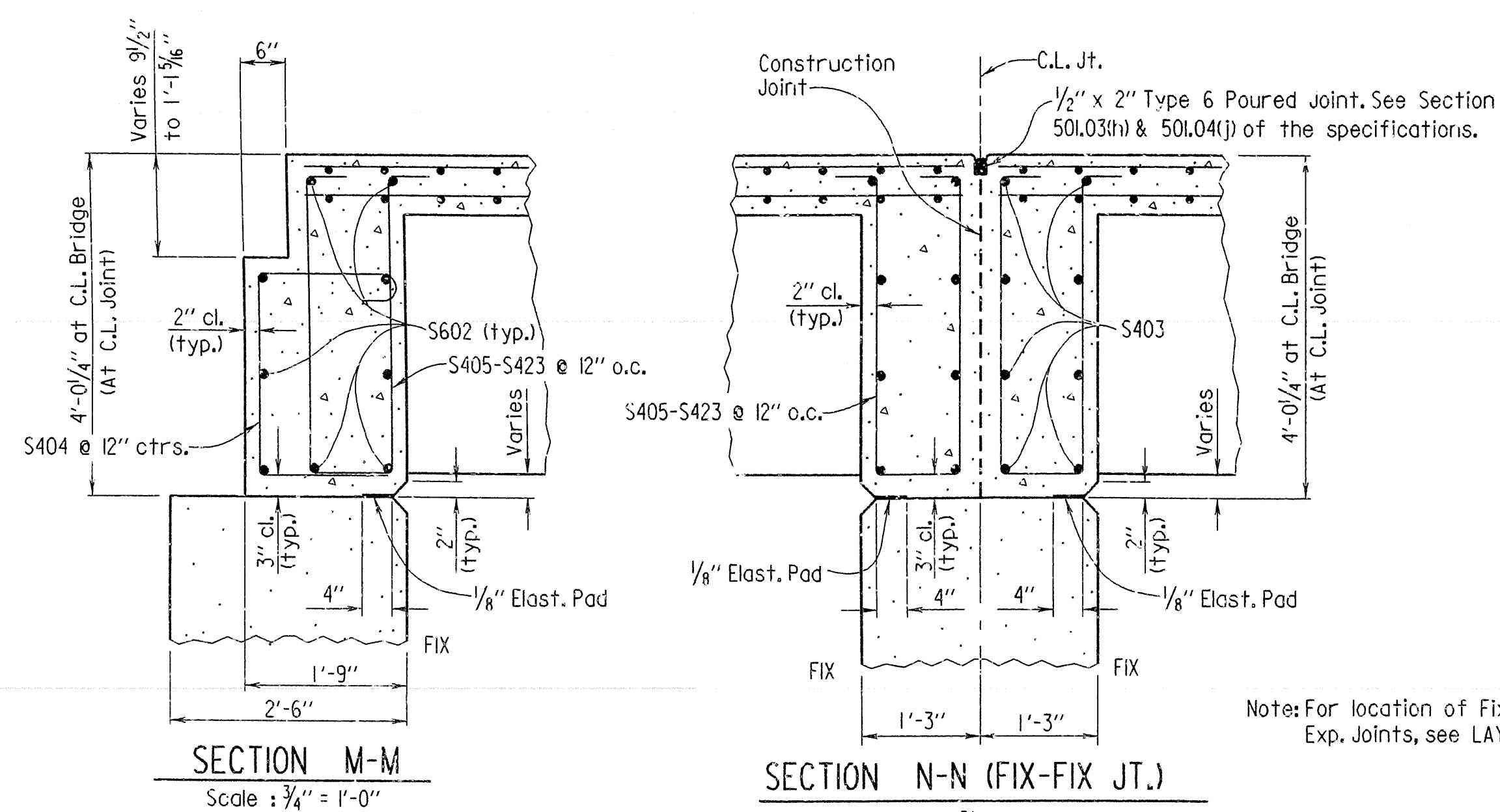
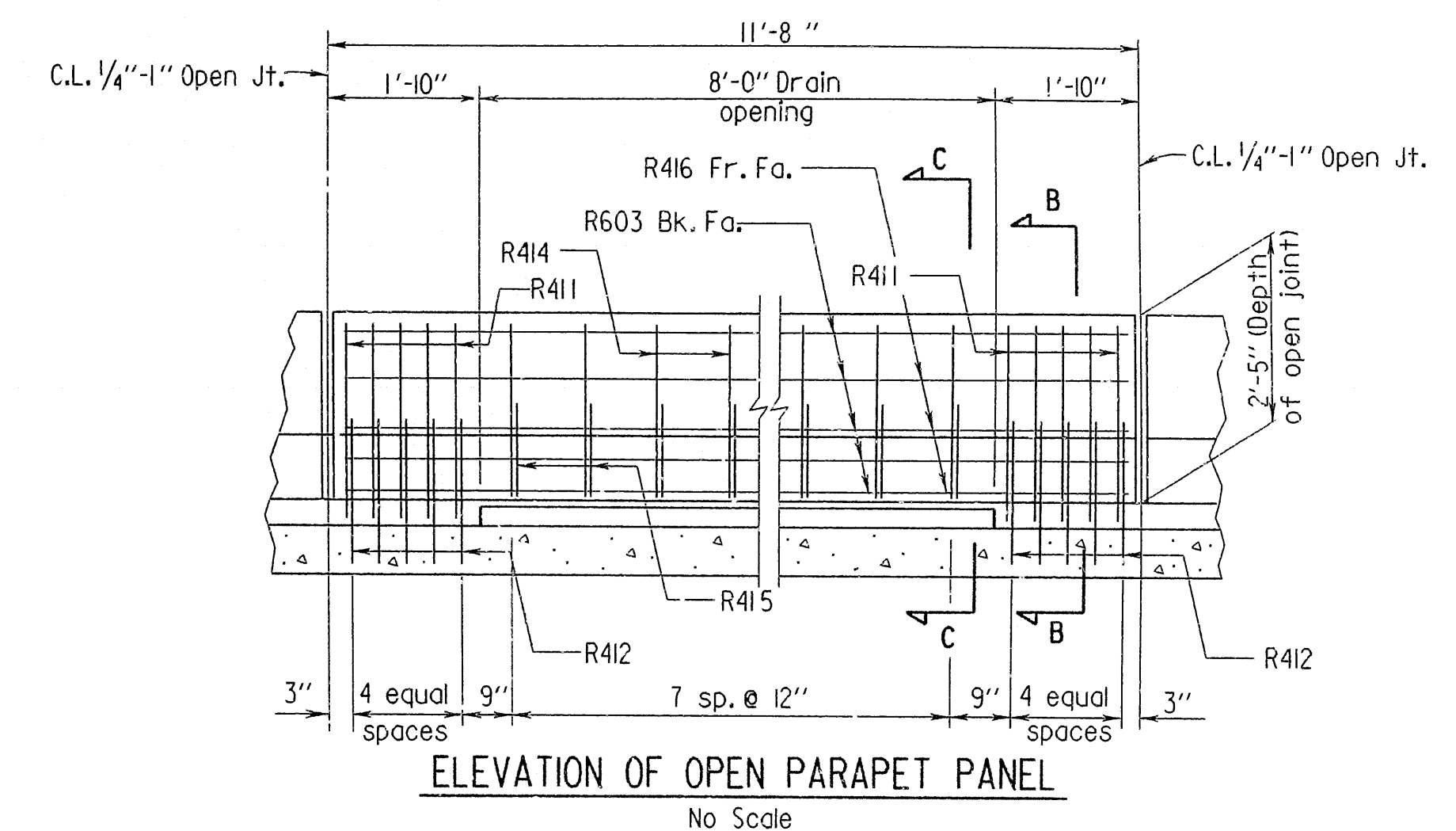
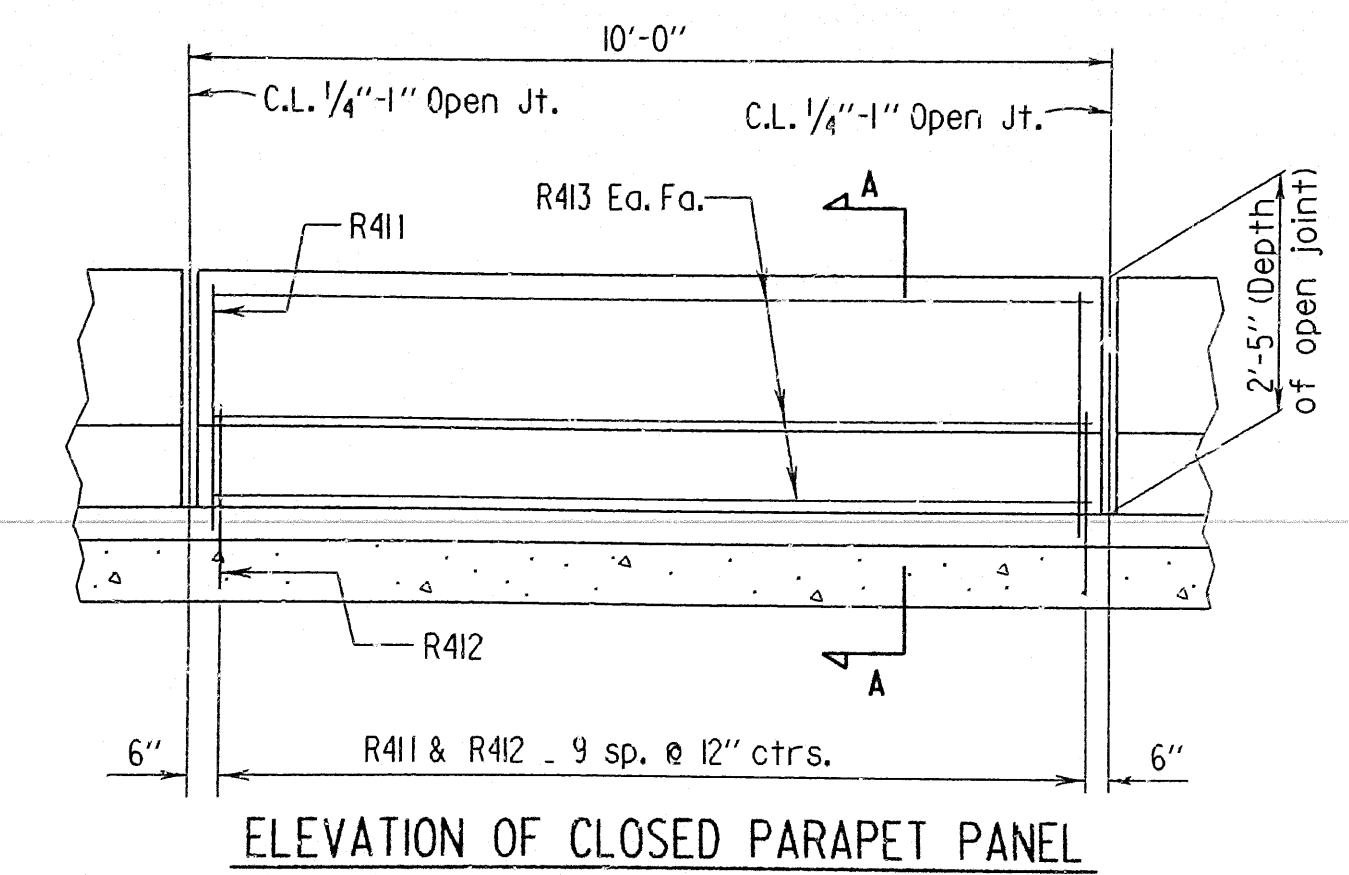
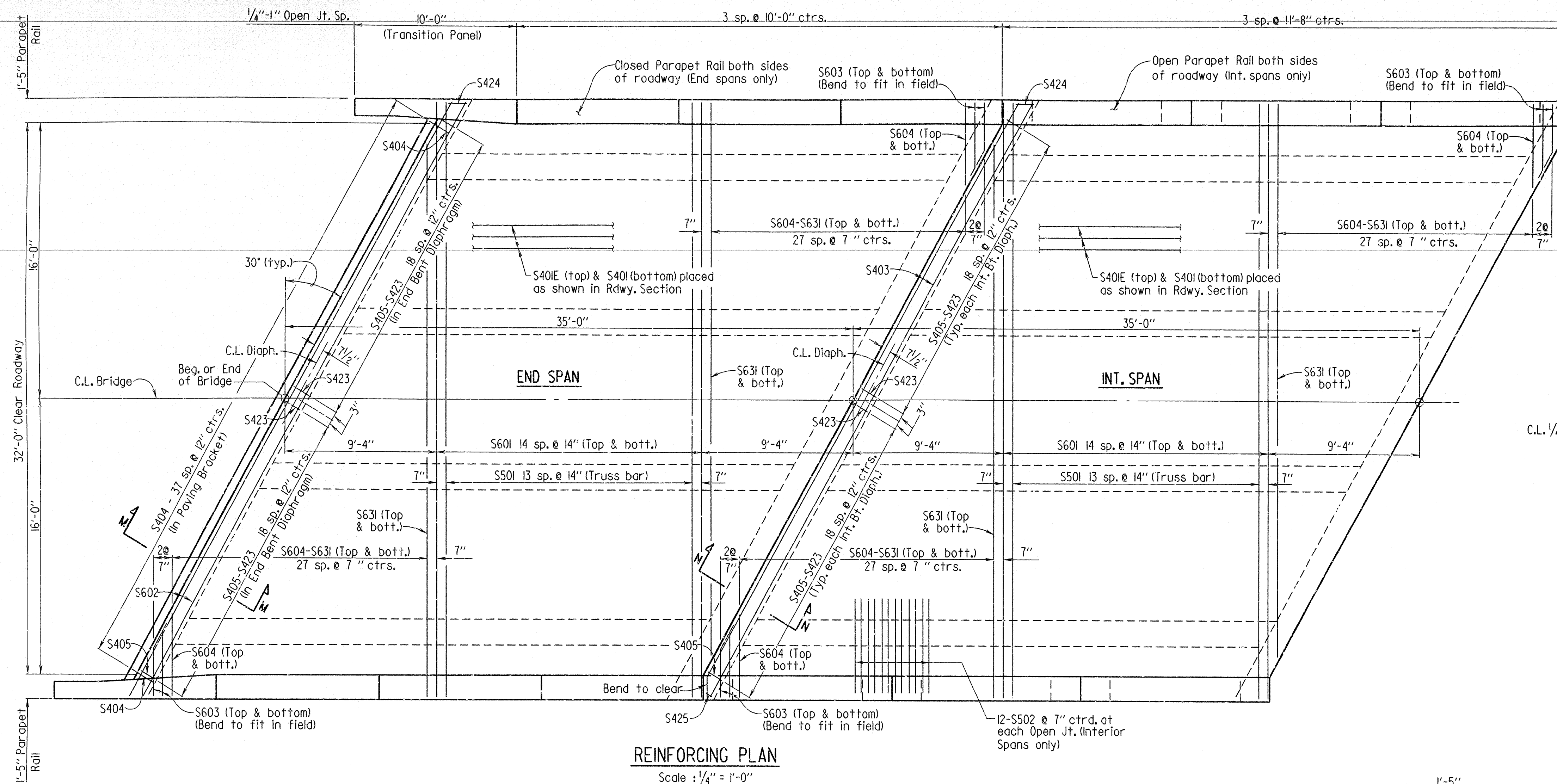
SHEET 1 OF 3
DETAILS OF
35'-0" R.C. DECK GIRDER SPANS
30° LT. FRWD. SKEW

ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: 29 Oct 92
CHECKED BY: 2/4 m DATE: 4-93 SCALE: As Shown
DESIGNED BY: 2/4 m DATE: 6-93
BRIDGE NO. 6559 DRAWING NO. 34142

B4985X3, S11

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.		004985	36	84
				① 6559	SPAN DTLS.			34143



SHEET 2 OF 3
DETAILS OF
35' R.C. DECK GIRDER SPANS
30° LT. FRWD. SKEW
ROUTE 96 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: KMG DATE: 29 Oct 92
CHECKED BY: RJM DATE: 4-93 SCALE: As Shown
DESIGNED BY: RJM DATE: 6-93
BRIDGE NO. 6559 DRAWING NO. 34143

6559	SPAN DTLS.	34144
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1'-5"

7" 2" 8"

Gutterline

R407

1'-7"

10"

4"

1 1/2' cl.
(typ.)

R402 thru
R406

R401

2 1/2' cl.
(typ.)

See Detail "Y" on
drwg. no. 34142

Constr. Jt. Req'd.
Match rdwy. slope

Technical drawing of a window frame assembly. The drawing shows a cross-section of the frame with various dimensions and labels for components and materials.

Dimensions:

- Top width: 1'-5"
- Top width (inner): 10"
- Top width (inner, variable): var. 8" to 10"
- Left height (total): 2'-5"
- Left height (inner): var. 0' to 2'-5"
- Left height (inner, variable): var. 10" to 0"
- Left height (inner, variable): 4"
- Left height (inner, variable): 3'-8 1/4" (with a note "varies")
- Right height (inner): 2 1/2" cl. (typ.)
- Right height (inner, variable): 3' equal sp. (with a note "varies")

Labels and Components:

- Cutterline
- R407
- R410
- 1 1/2" cl. (typ.)
- R409
- R702 or R704
- R408
- R701 or R703

Technical drawing of a vertical structural member, likely a wall or partition, showing dimensions and callouts:

- Top horizontal dimension: 1'-5"
- Top horizontal dimension (inner): 10"
- Left vertical dimension: 2'-9"
- Callouts: R602, R407 (Typ. except as noted), R409, R410, R602, R702 or R704, R408, R701 or R703, 3 equal sp., varies.
- Dimensions: 1 1/2" cl. (typ.), 2 1/2" cl. (typ.), 2"

Diagram of a vertical structural member showing various dimensions and labels:

- Top width: 1'-5"
- Horizontal distance from centerline to right edge: 10"
- Total height: 2'-9"
- Labels: Cutterline, R602, 1 1/2" cl. (typ.), R407 (Typ. except as noted), 2 1/2" cl. (typ.), R702 or R704, R701 or R703, R601Ea, Fa., 3 equal sp., varies.

SECTION K-K
No Scale

10'-0"

4"

3 sp. @ 7"

19"

9 sp. @ 9"

4"

C.L. 1/4" - 1" Open Jt.

J

H

G

R407 E.F.

R410

F

R401

2'-5" (Depth of open joint)

C.L. Guard Rail Conn.

2'-9"

1'-9"

R602 Fr. Fa. only

Gutterline

3'-8 1/16"

R601 E.F.

R406

R402

4 sp. @ 9" (R402-R406)

4"

R408 F.F.

R409 B.F.

R703E B.F.

R704E F.F.

J

H

G

End Bent Cap

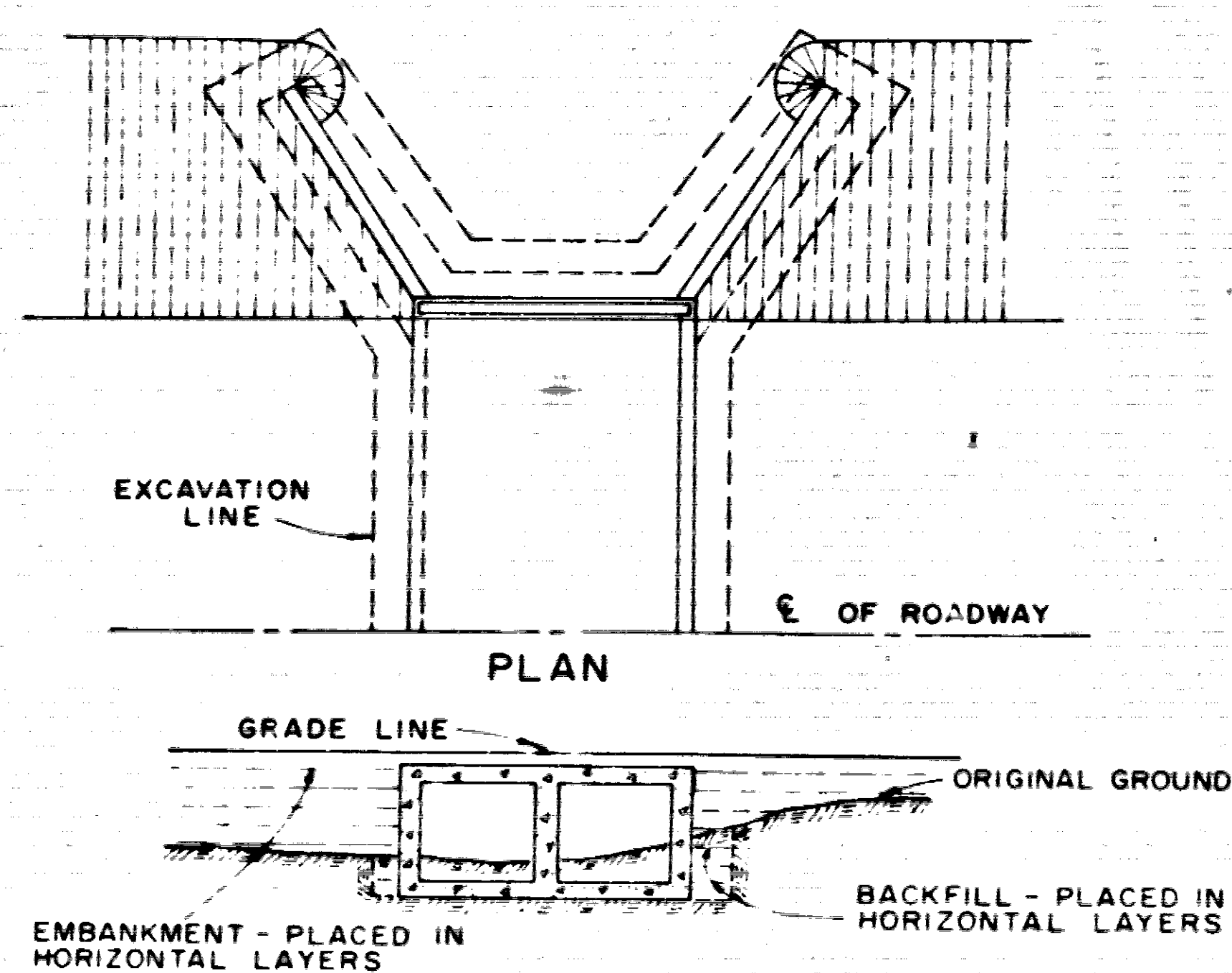
Scale: $\frac{1}{2}'' = 1'-0''$

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

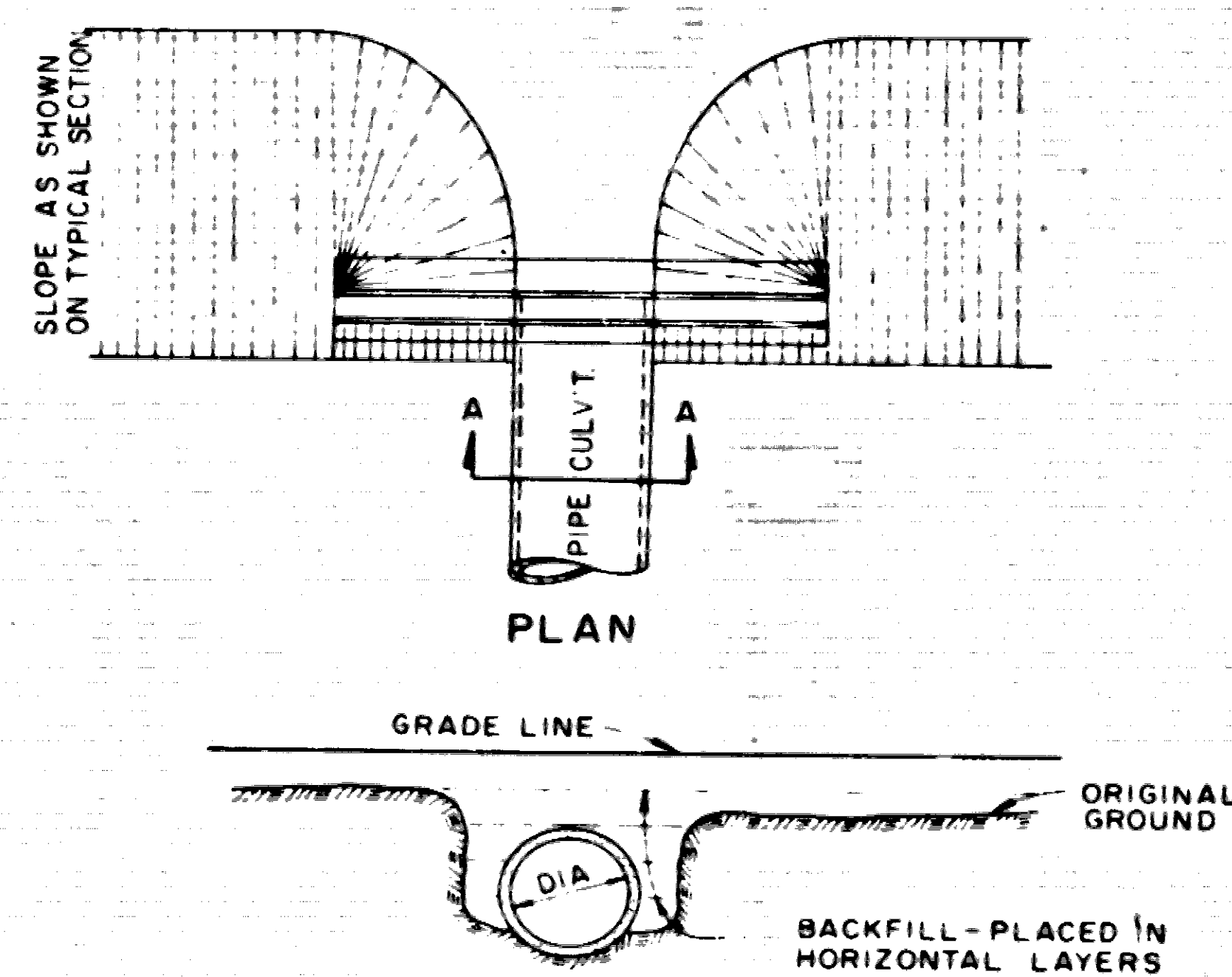
The extruded parapet shall conform to the horizontal and vertical lines shown on the plans or as directed by the Engineer and shall present a smooth, uniform appearance and texture. Exposed surfaces may be given a light brush finish or a Class 3, Sprayed Finish, in place of Class 2, Rubbed Finish.

DRAWING NO. 34144

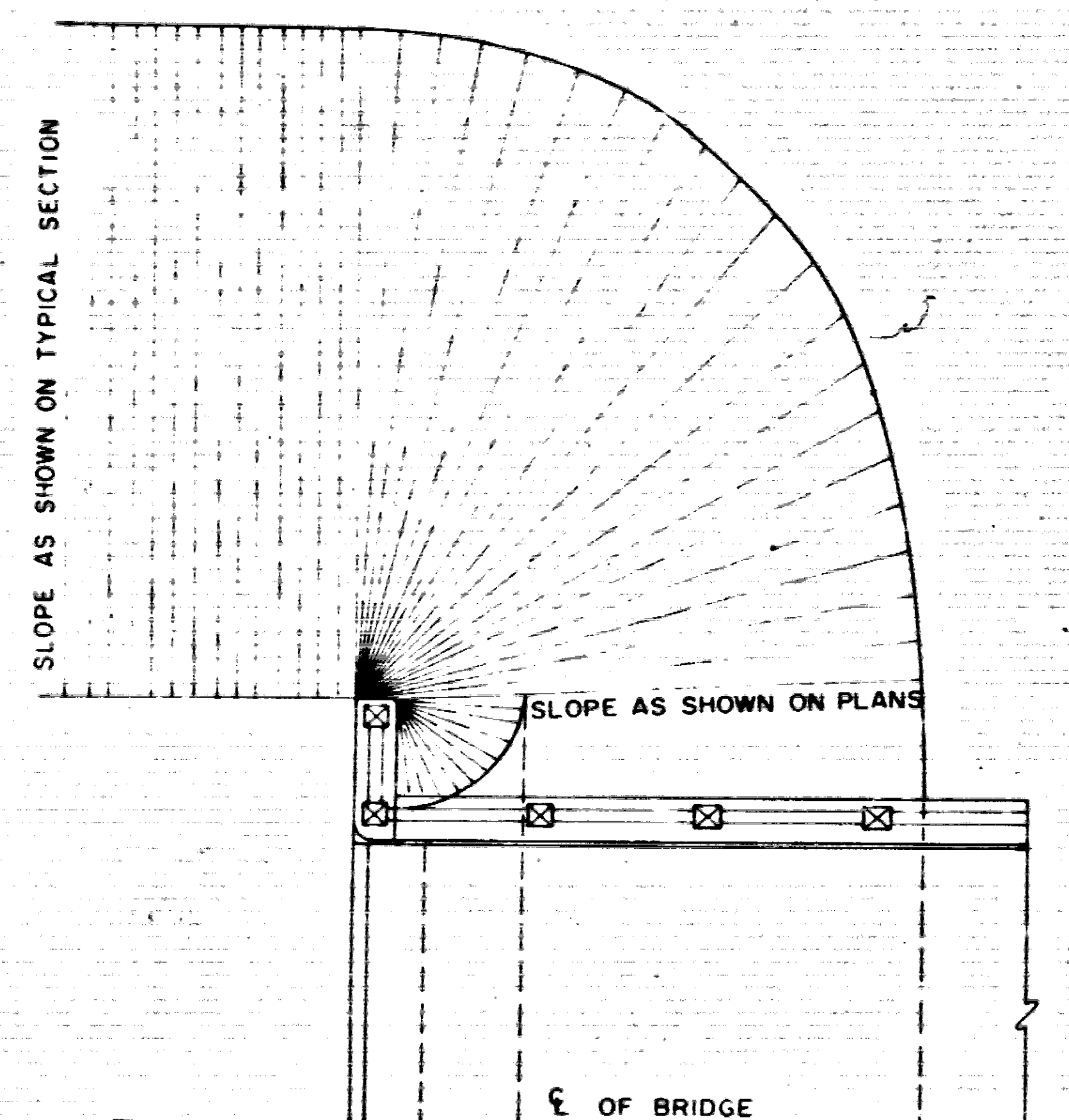
BRIDGE ENGINEER



LONGITUDINAL SECTION
BOX CULVERT

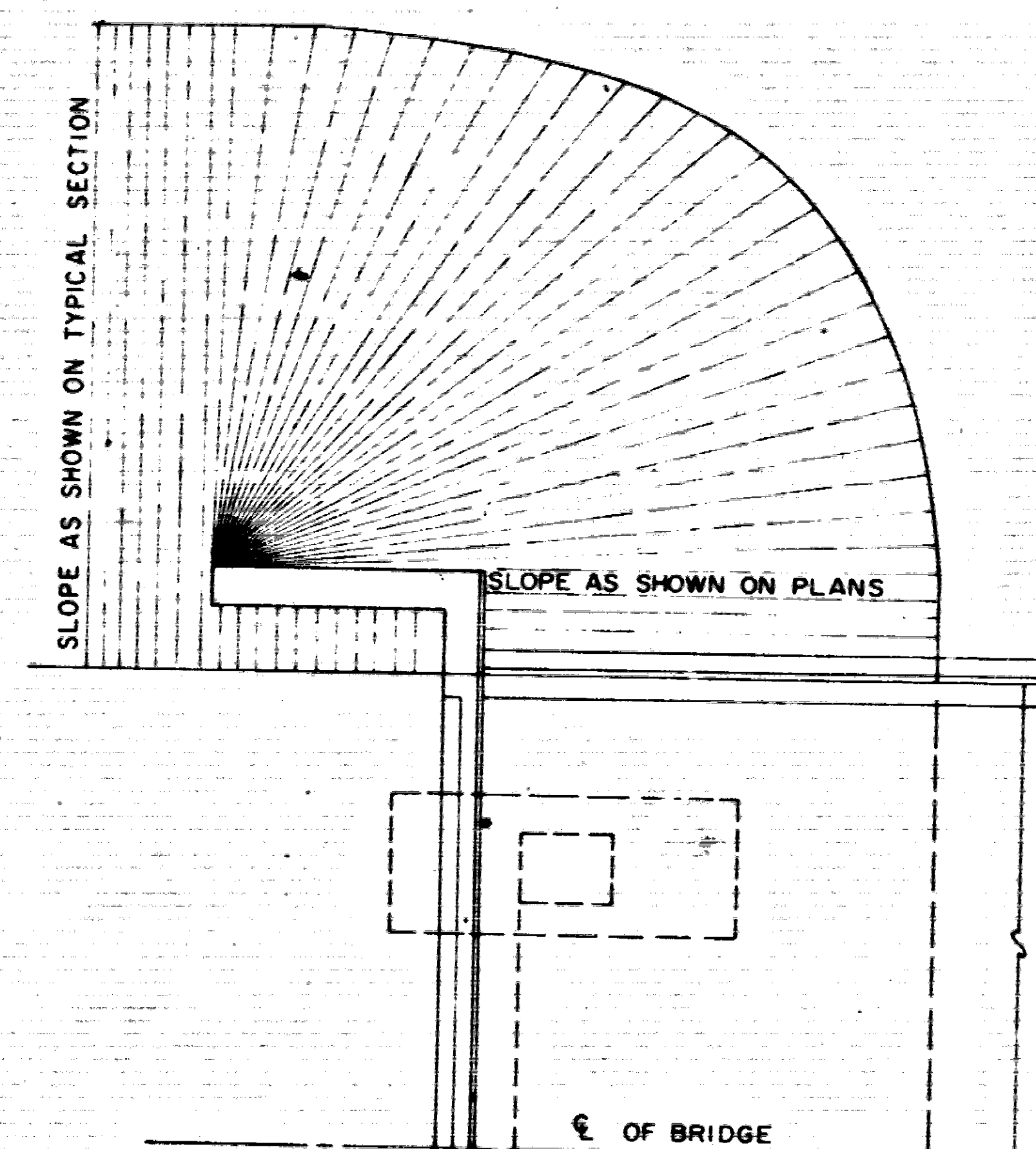


SECTION A-A
PIPE CULVERT



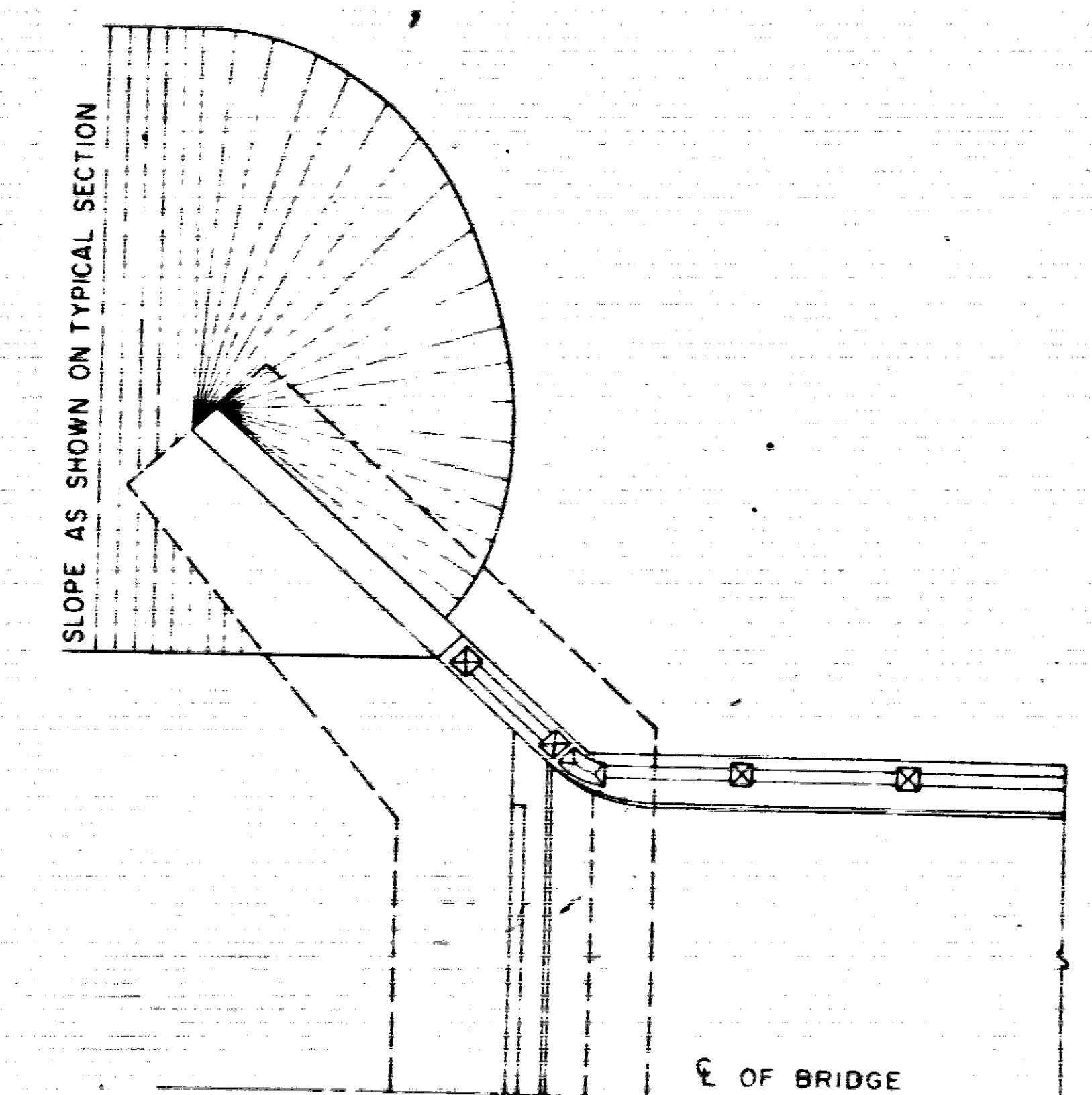
OPEN END ABUTMENT

CONSTRUCTION OF THE BRIDGE END EMBANKMENT
THE BRIDGE END EMBANKMENT SHALL BE DEFINED AS NOT LESS THAN 20 FEET OF EMBANKMENT ADJACENT TO THE END OF THE BRIDGE TOGETHER WITH THE SIDE SLOPES AND SLOPES UNDER THE BRIDGE END AND AROUND THE END OF WINGWALLS.
REFER TO SUB-SECTIONS 202.08 AND 202.09 OF THE SPECIFICATIONS FOR CONSTRUCTION REQUIREMENTS.



SEMI-STUB ABUTMENT AND
TURN BACK WING PILE BENT

BACKFILLING EXCAVATION
IN SO FAR AS PRACTICABLE, ABUTMENT EXCAVATIONS SHALL BE CUT TO THE SIZE SHOWN ON THE PLANS WITH ALLOWANCE OF 3 FEET ON ALL SIDES.
OVERSIZED AND FLARED CUTS TO AVOID THE USE OF SHEETING SHALL NOT BE PERMITTED.
BACKFILL AROUND THE WALL OR COLUMNS SHALL BE COMPACTED IN ACCORDANCE WITH SUB-SECTION 801.08 OF THE SPECIFICATIONS.

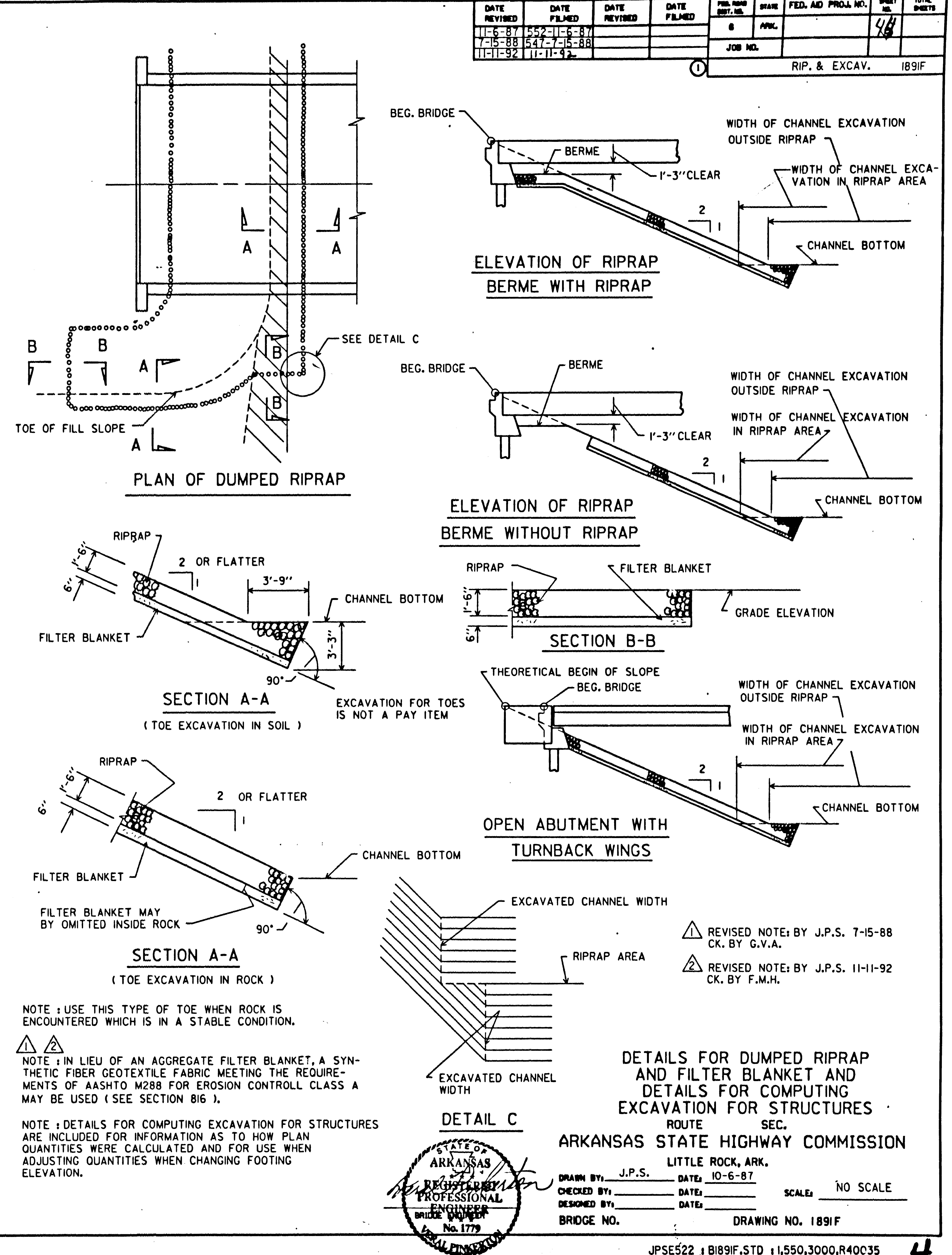
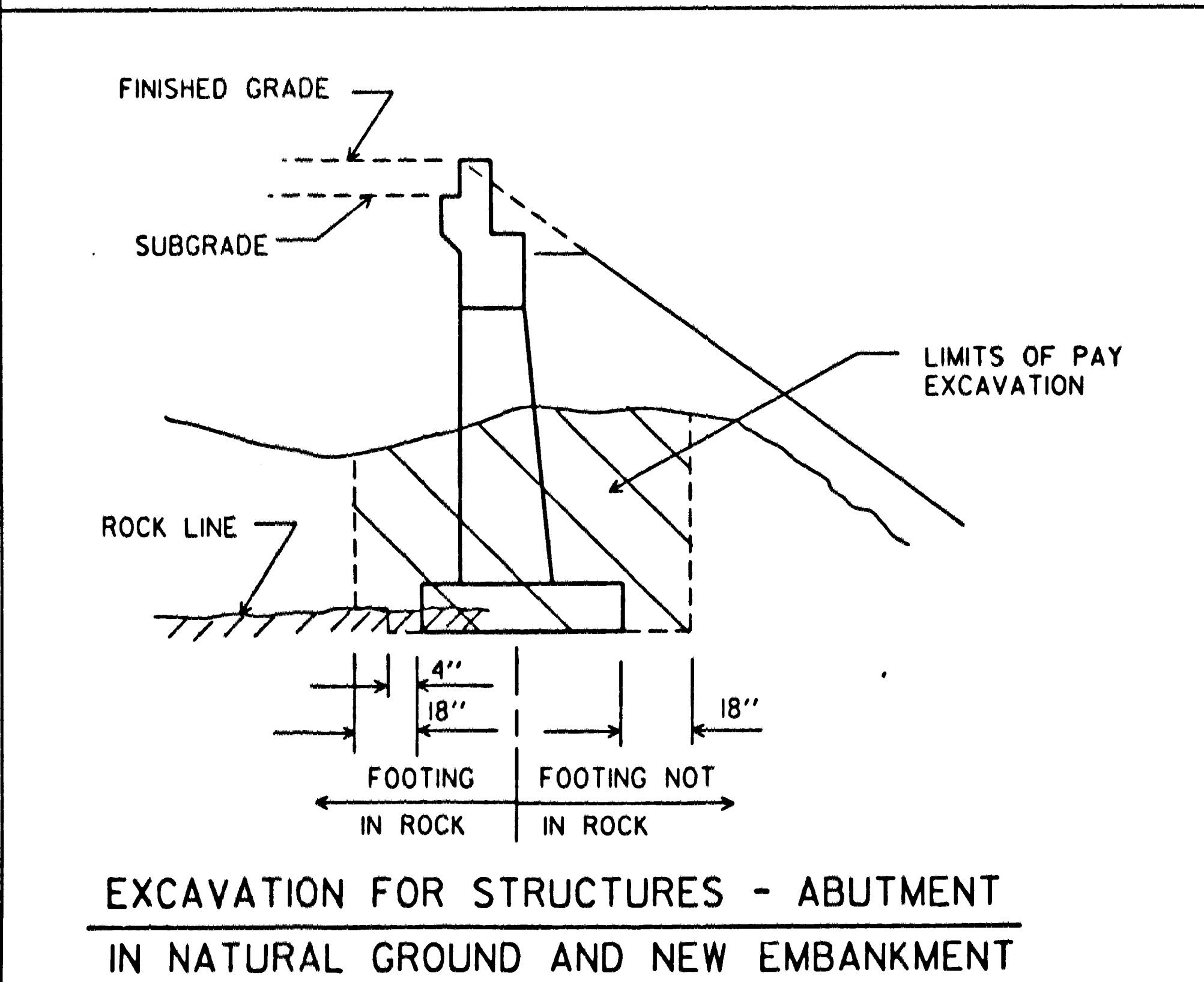
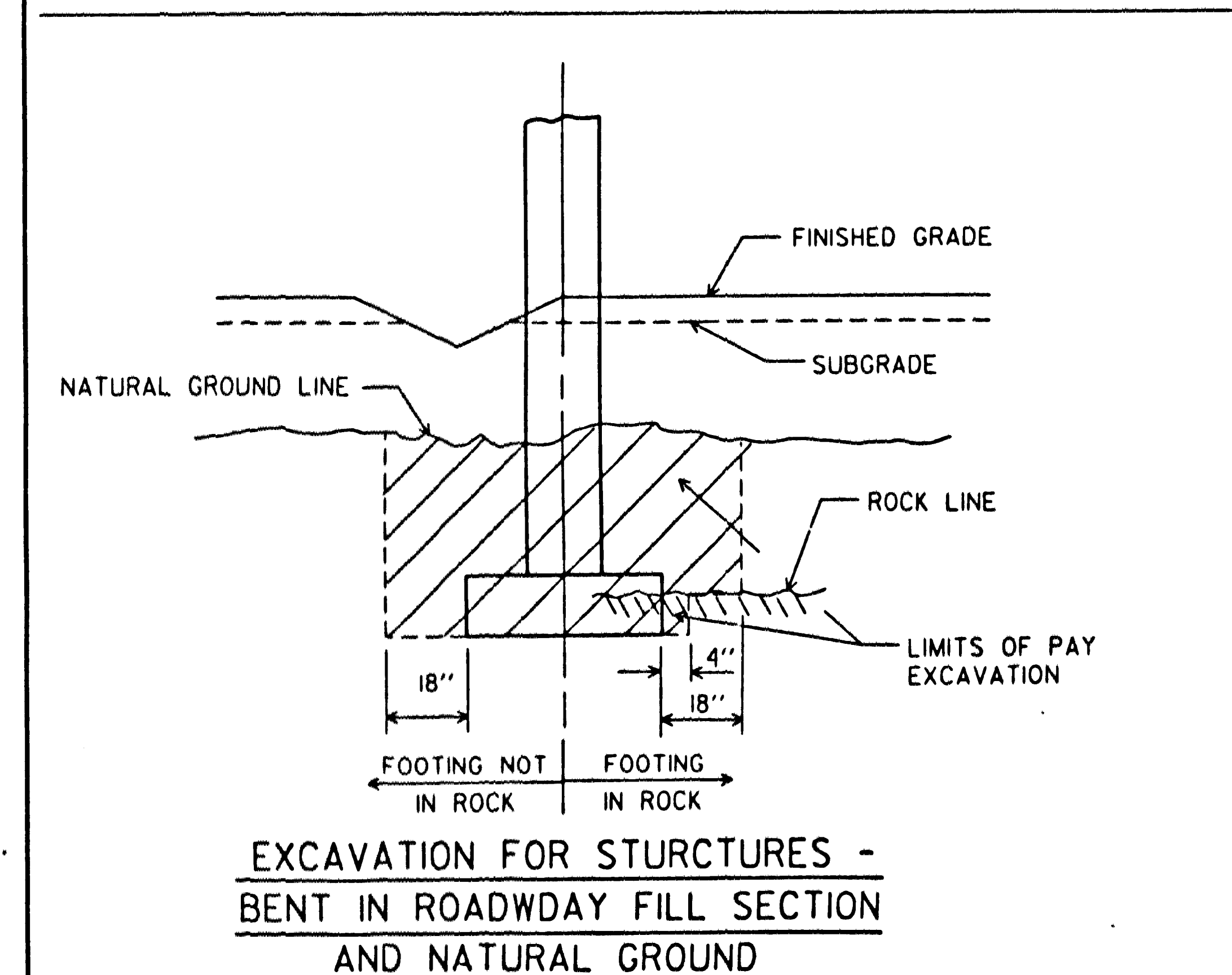
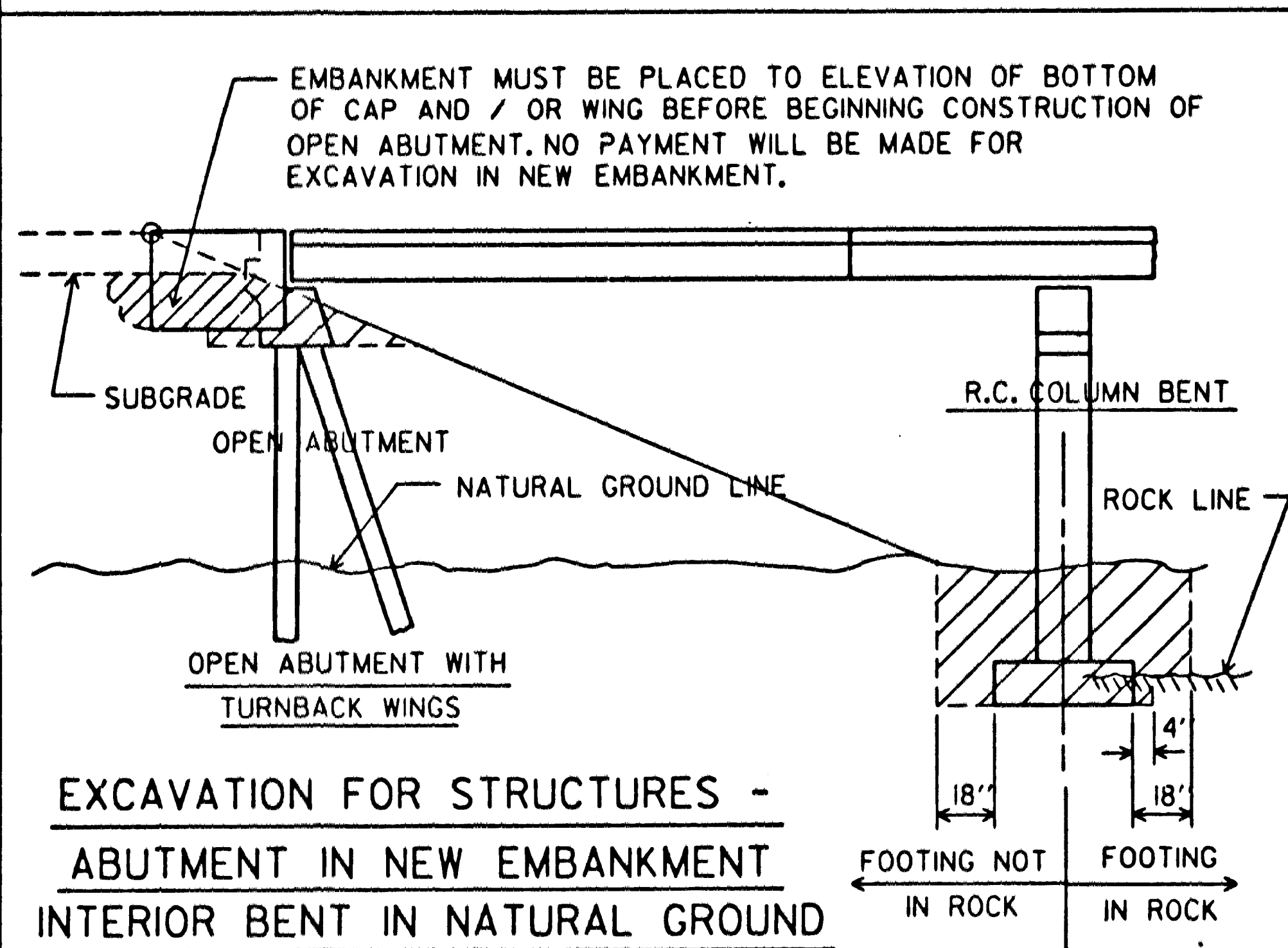
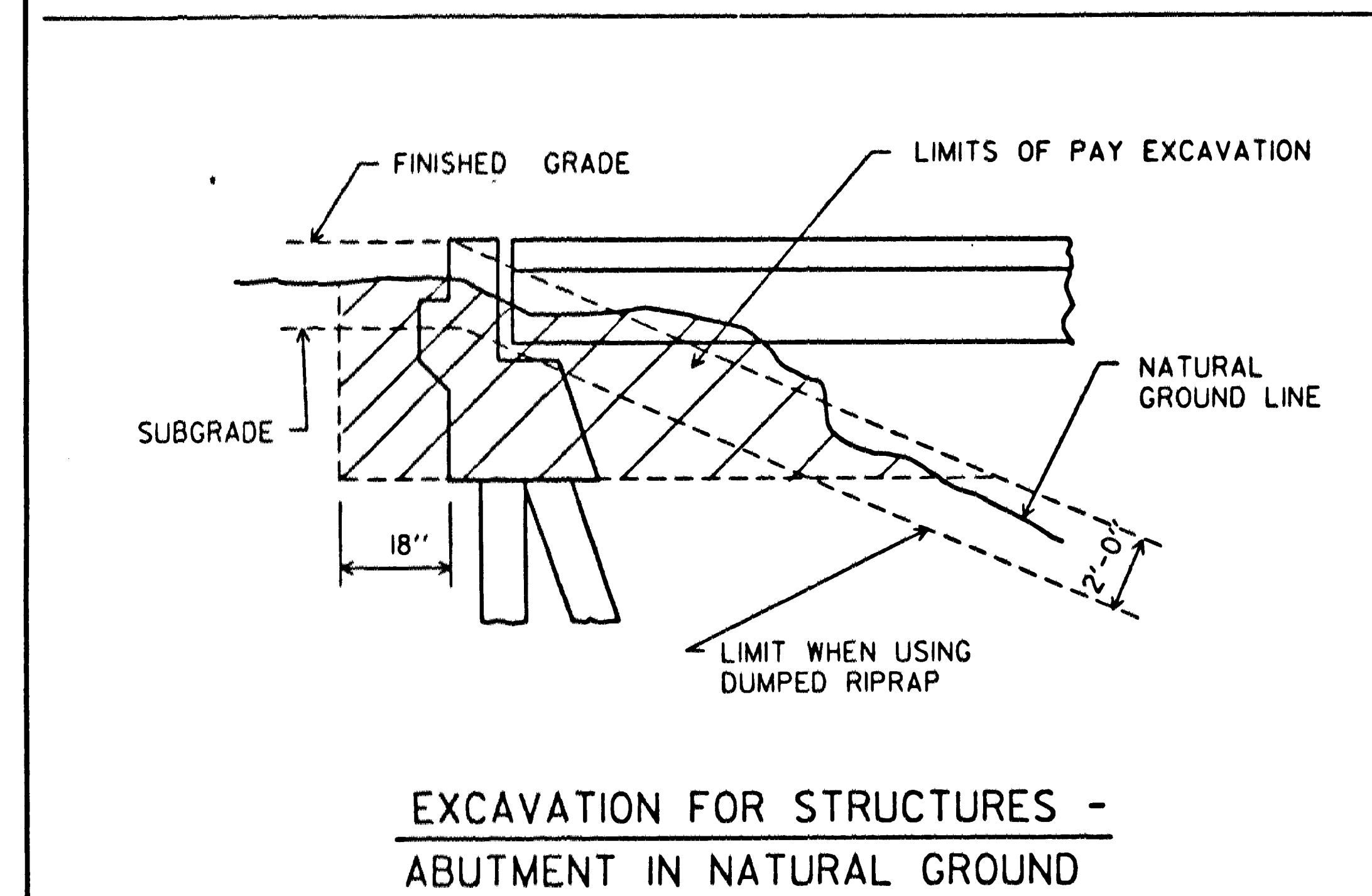
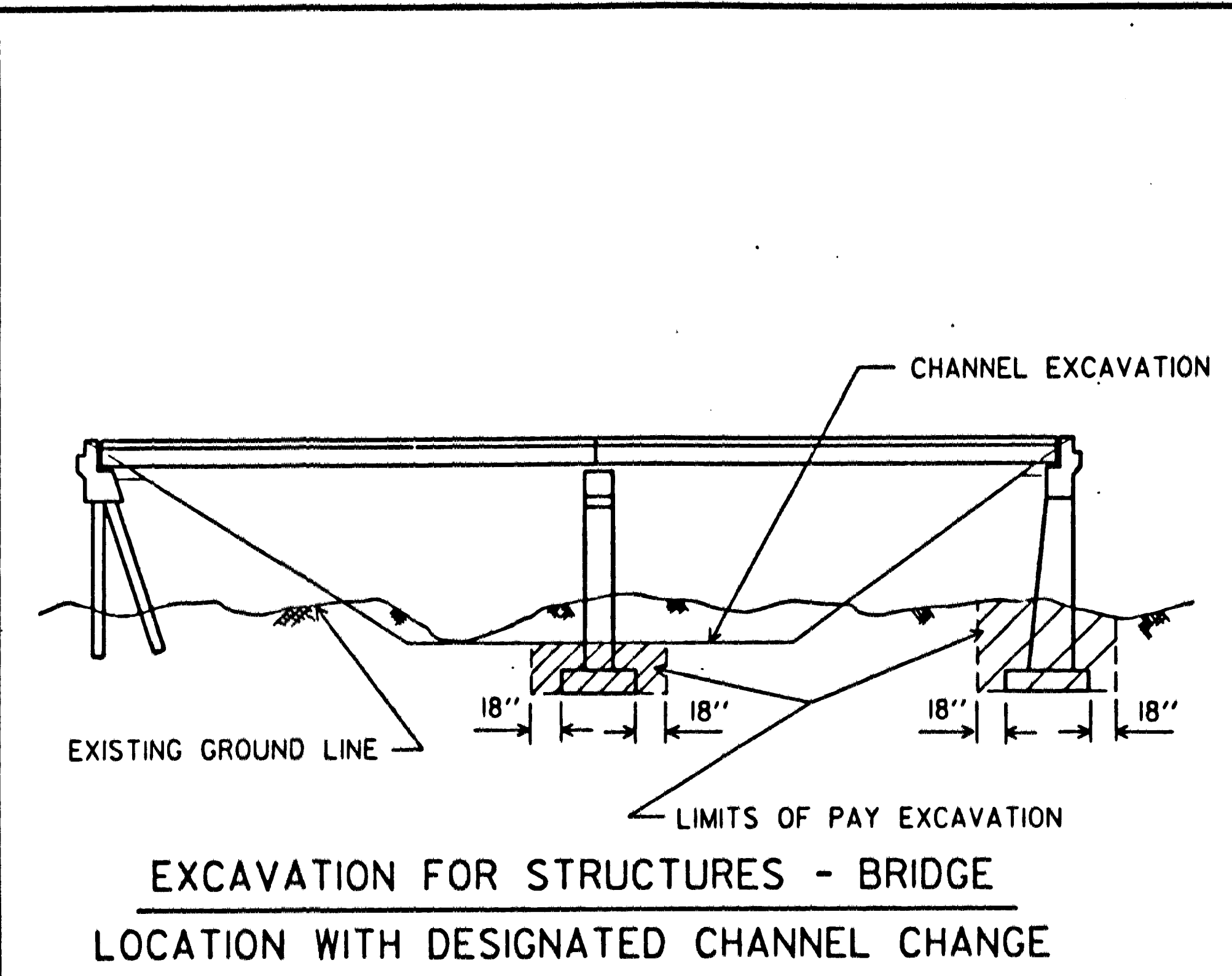
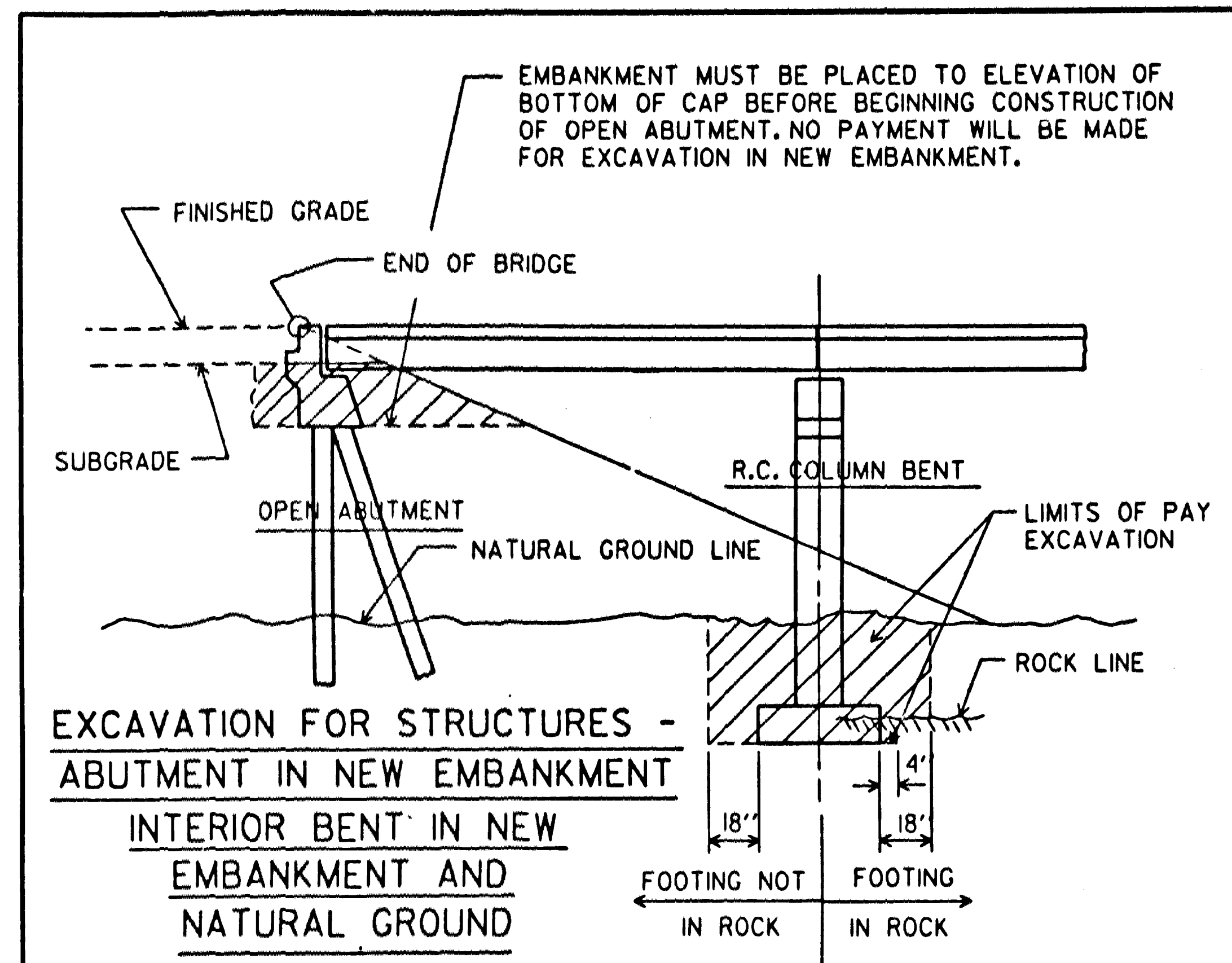


WINGWALL ABUTMENT

GENERAL NOTE
BACKFILL AND EMBANKMENT ADJACENT TO STRUCTURES TO BE CONSTRUCTED IN 4 INCH HORIZONTAL LAYERS (LOOSE MEASURE) AND COMPACTED TO THE SATISFACTION OF THE ENGINEER BY USE OF MECHANICAL EQUIPMENT.

10-2-72 REVISED & REDRAWN
DATE REVISION

ARKANSAS STATE HIGHWAY COMMISSION
EMBANKMENT CONSTRUCTION AT
BRIDGE ENDS AND
BACKFILL FOR STRUCTURES
STANDARD DRAWING
1888A



RECEIVED
OCT 24 1988

