

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. R60030	61	176
						0360 LAYOUT		31085

GENERAL NOTES

BENCH MARK: N.I.S. Guy Pole, 38' Rt. Sta. 151+14, Centerline Survey, Elev. 283.60.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 1988 edition, with applicable supplemental specifications and special provisions.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 1983 with current interim specifications.

LIVE LOADING: HS20 METHOD OF DESIGN: Load Factor

Concrete: Concrete in the Substructure shall be Class "S". Concrete in the Superstructure shall be Class S (AE). All concrete shall be poured in the dry. Exposed corners to be chamfered 3/4" unless otherwise noted.

Class S (AE) Concrete (Superstructure) $f'_c = 4,000$ psi
Class S Concrete (Substructure) $f'_c = 3,500$ psi

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

FOOTINGS: Footings shall be set a minimum of 1'-0" into material designated as hard shale on the boring legend. Top of Footings to be below Channel Bottom. Foundations for footings shall be prepared in accordance with section 801.04 of the Standard Specifications.

STEEL PILING: All piling 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 and into the material designated as medium hard shale on the boring legend. Lengths shown are for estimating quantities and for use in determining payment for cut-off and build-up in accordance with the specifications. Piles in end bents to be driven after embankment to bottom of cap is in place. On all piles the contractor shall use Hard-Bite HP77600 H-Pile points manufactured by Associated Pipe and Fitting Corporation, Versa-Bite 300 P Rock Duty Series H-Pile points manufactured by Versa-Steel, Inc., Tufftip Prebored H-777 Pile Points manufactured by Dougherty Foundation Products Inc. or equal as approved by the Bridge Engineer.

DETAIL DRAWINGS:

DRAWING NO.

End Bents
Intermediate Bents
30'-0" R.C.D.G. Spans
Steel Piling

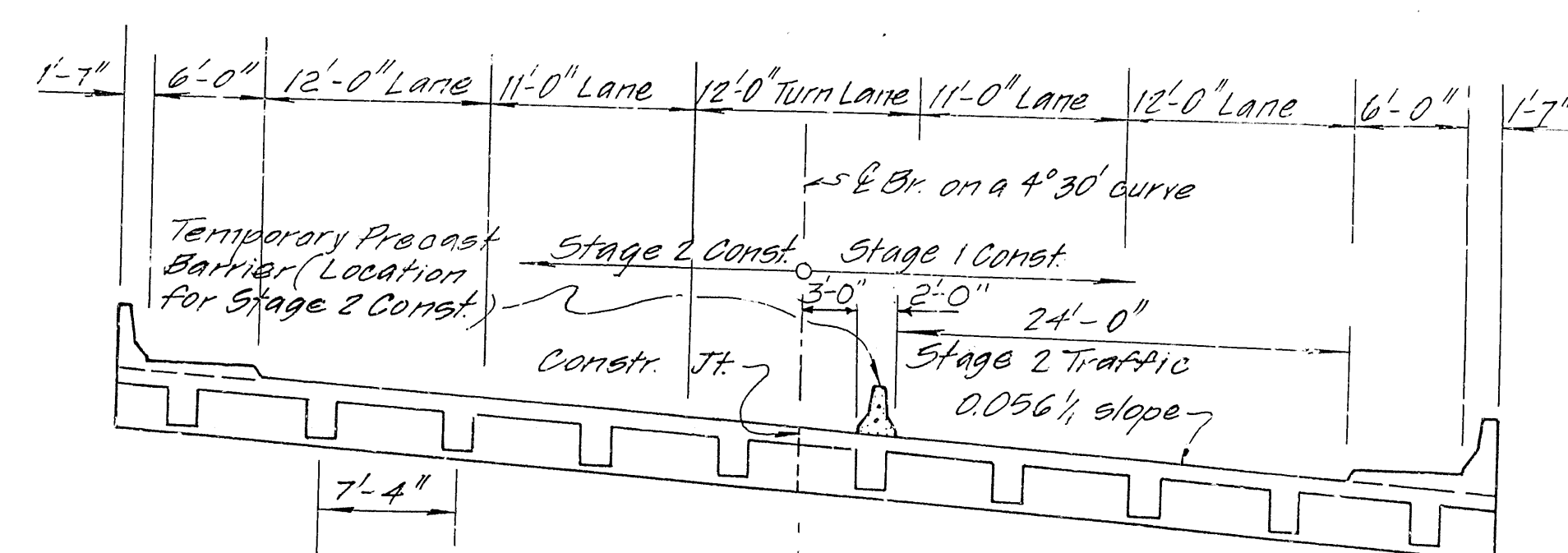
31085
31087
31088-31090
14995A

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.

REMOVAL AND SALVAGE: The existing bridge no. 02106 shall be removed in accordance with section 205 of the Standard Specifications after Stage 1 Construction is completed and open to traffic. All material from the existing bridge shall become the property of the contractor. Bridge No. 02106 is 30' x 49'-10" and consists of two 1-Beam Spans with concrete deck on a concrete pier and two concrete abutments.

BORING LEGEND

- A - Moist Med. Dense, Brown Sand, Gravel and Cobbles
- B - Med. Hard, Brown and Gray Weathered Shale
- C - Med. Hard, Dark Gray Shale
- D - Hard Dark Gray Shale
- E - Moist, Loose, Brown Sand, Gravel and Cobbles
- F - Soft, Brown and Gray Highly Weathered Shale
- G - Moist, Med. Dense, Brown Silty Sand and Gravel
- H - Med. Hard, Gray Weathered Shale



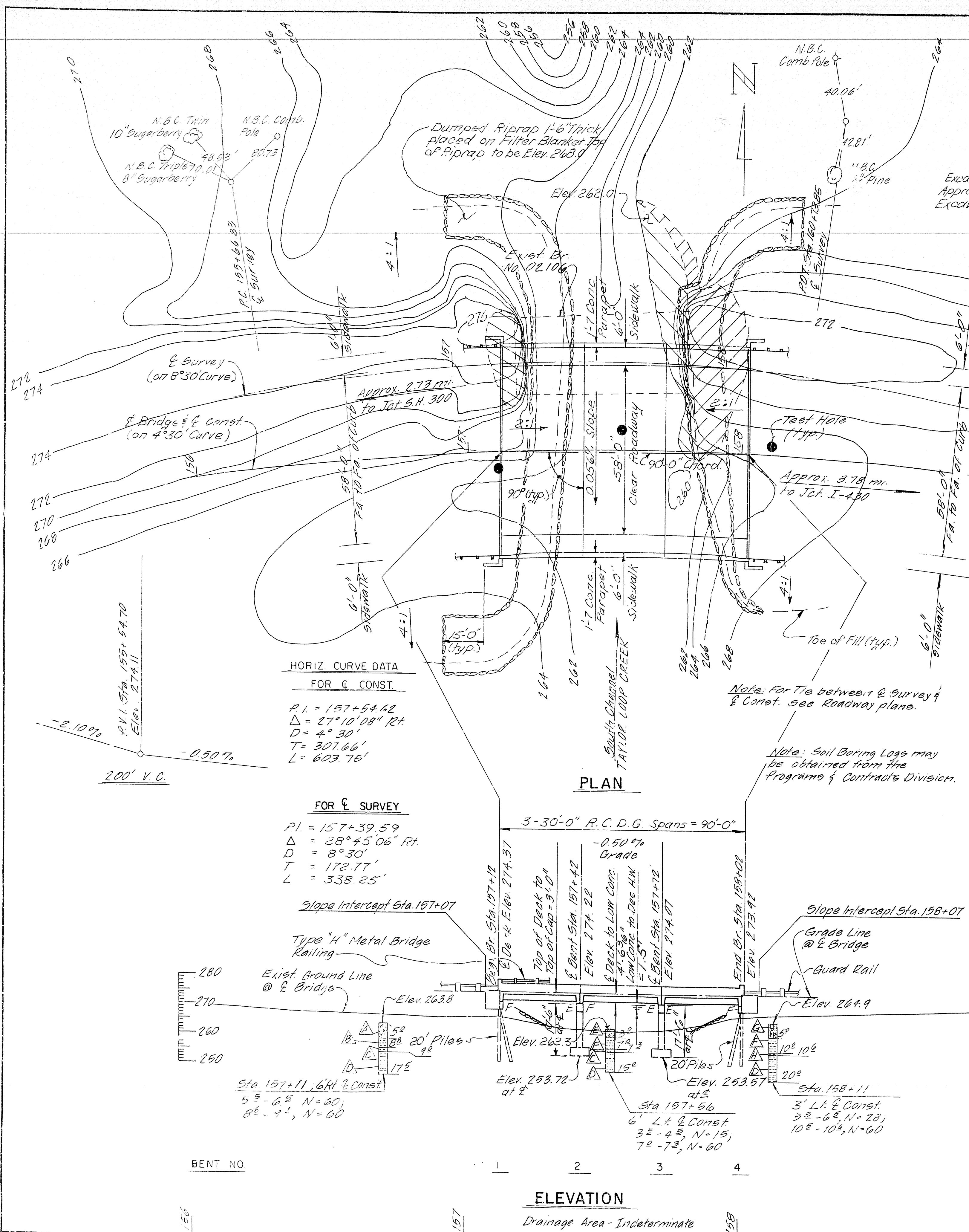
STAGE CONST.

HYDRAULIC DATA

	Frequency	Discharge c.f.s.	Normal Water Surface Elevation	Water Surface Elevation with Backwater
Design Flood	050	3,300	266.8	267.9
Basic Flood	0100	3,700	267.3	268.4
Extreme Flood	0500	4,600	267.9	269.3

LAYOUT OF BRIDGE OVER
SOUTH CHANNEL TAYLOR LOOP CREEK
HWY. 300- RUMMEL ROAD
PULASKI COUNTY
ROUTE 10 SEC. 8
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DESIGNED BY: *ESK* DATE: 3-10-88
CHECKED BY: *ESK* DATE: 3-10-88
DESIGNED BY: *ESK* DATE: 3-10-88
BRIDGE NO. 6360 DRAWING NO. 31085



HORIZ. CURVE DATA FOR E CONST.

P.I. = 157+54.42
 $\Delta = 27^{\circ}10'08''$ RT
D = 4° 30'
T = 307.66'
L = 603.75'

FOR E SURVEY

P.I. = 157+39.59
 $\Delta = 28^{\circ}45'06''$ RT
D = 8° 30'
T = 172.77'
L = 338.25'

Slope Intercept Sta. 157+07

Type "H" Metal Bridge Railing

Exist. Ground Line @ E Bridge

Sta. 157+11, 6' RT E Const.
5° - 6° N = 60;
8° - 9° N = 60

BENT NO

ELEVATION

Drainage Area - Indeterminate

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				JOB NO.		R60030	63	176

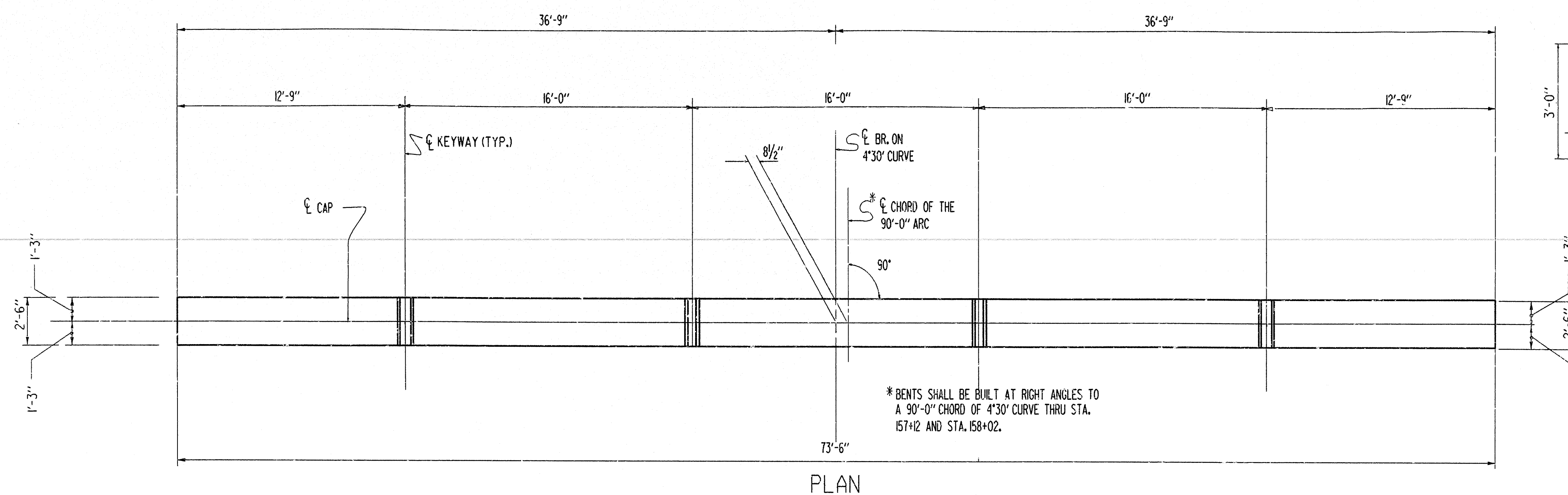
6360 INT. BENT DETLS. 31087

BAR LIST PER BENT

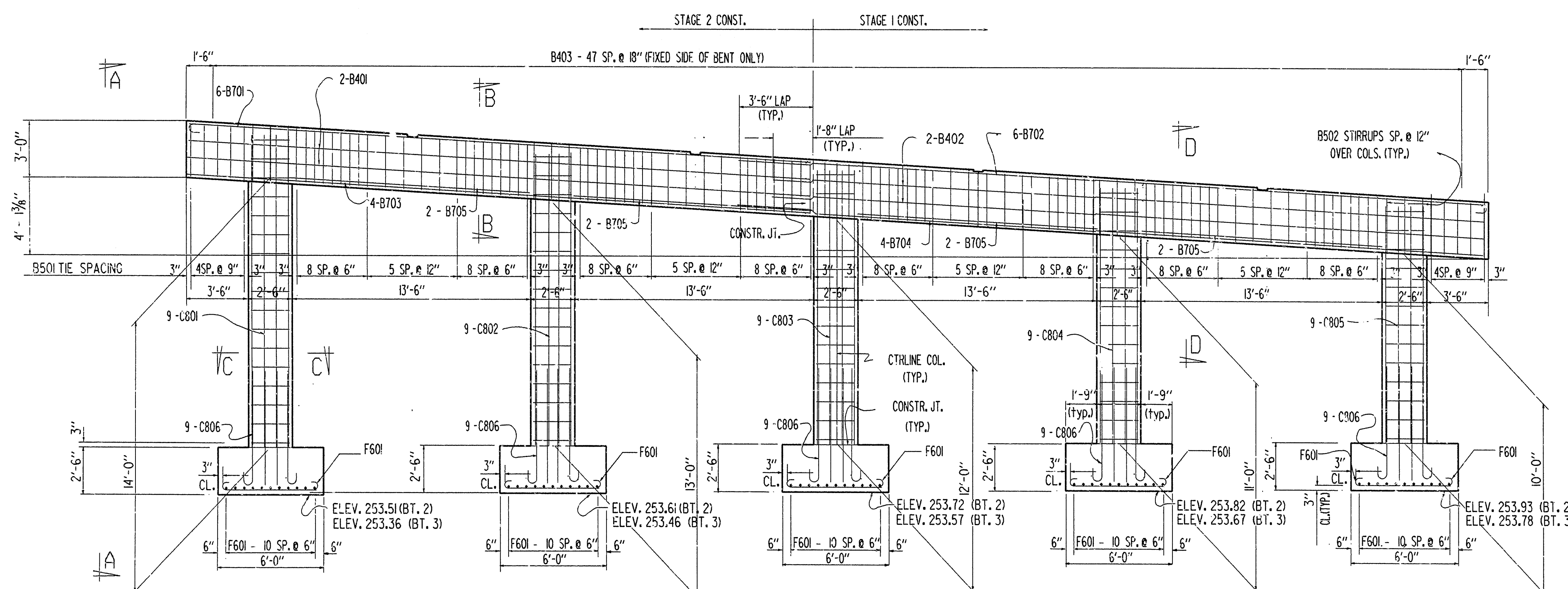
MARK	NO. REQ'D.	LENGTH	A	B	PIN DIA.	BENDING DIAGRAMS
B401	4	35'-4"			Str.	
B402	4	39'-6"			Str.	
B501	98	10'-2"	2'-2"	2'-8"	2 1/2"	
B502	15	7'-4"	2'-2"	2'-8"	2 1/2"	
B701	6	36'-2"	35'-4"	7"	5 1/4"	
B702	6	42'-2"	41'-4"	7"	5 1/4"	
B703	4	35'-4"	-	-	Str.	
B704	4	41'-4"	-	-	Str.	
C401	75	8'-3"	-	-	Str.	
C801	9	16'-6"	-	-	Str.	
C802	9	15'-6"	-	-	Str.	
C803	9	14'-6"	-	-	Str.	
C804	9	13'-6"	-	-	Str.	
C805	9	12'-6"	-	-	Str.	
C806	45	6'-9"	5'-10"	8"	6"	
F601	110	6'-10"	5'-6"	6"	4 1/2"	
B705	8	13'-6"			Str.	
B403	*	2'-6"			Str.	

Dimensions are out to out of bars

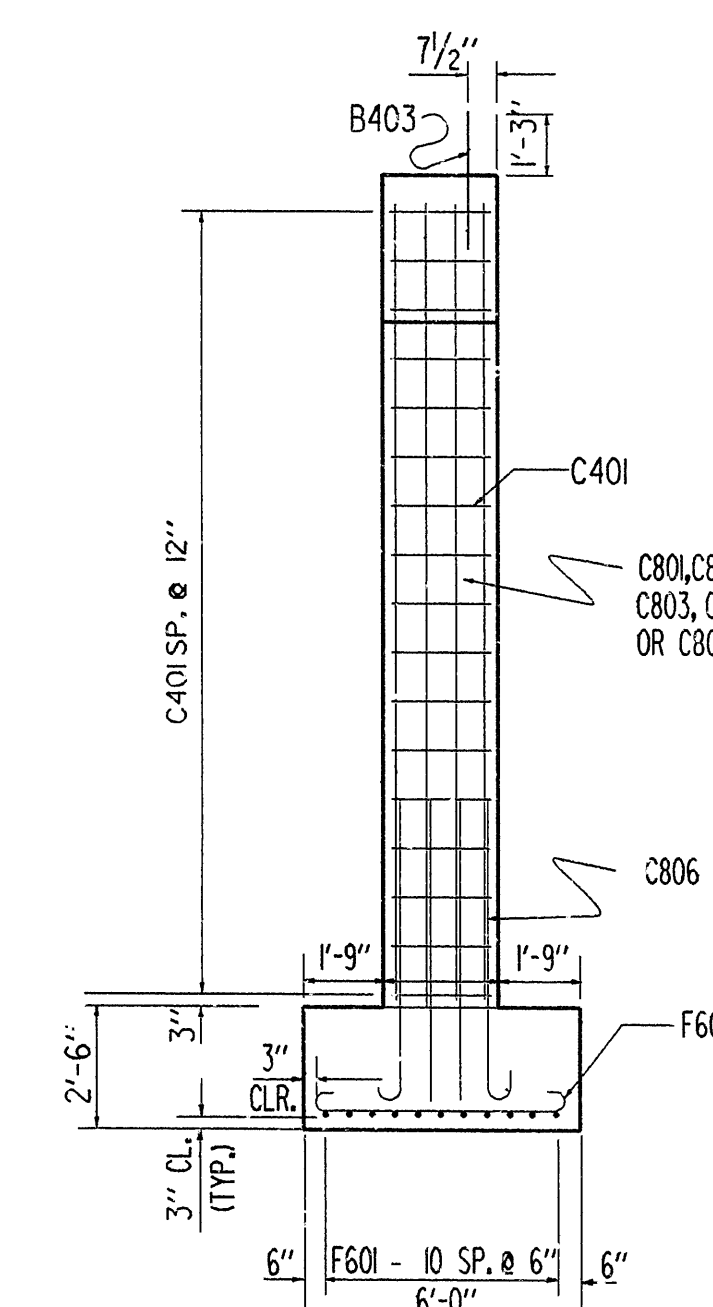
* 48 REQ'D. FOR BENT 2
0 REQ'D. FOR BENT 3



PLAN



ELEVATION



VIEW A-A

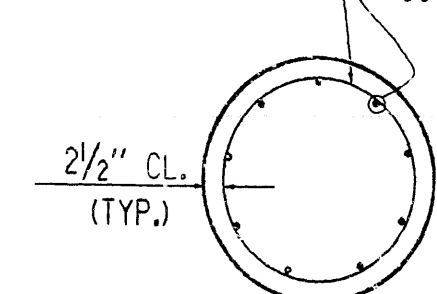
GENERAL NOTES:

All concrete shall be Class S and shall be poured in the dry. All exposed corners to be chamfered 3/4" unless otherwise noted.

Reinforcing steel shall conform to ASTM A615 or A617 grade 60 (yield strength= 60,000 p.s.i.).

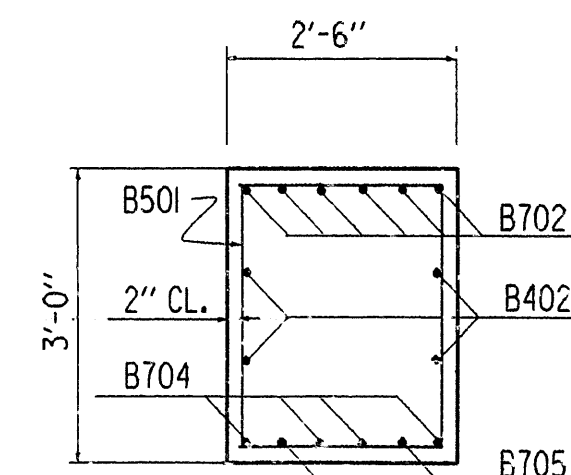
For additional notes, see layout.

C401 (TYP.) C801, C802, C803, C804, OR C805



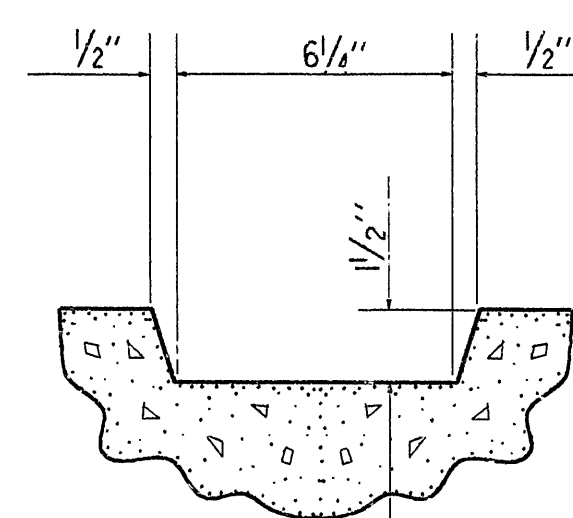
SECTION C-C

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



SECTION D-D

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



KEYWAY DETAIL

NO SCALE

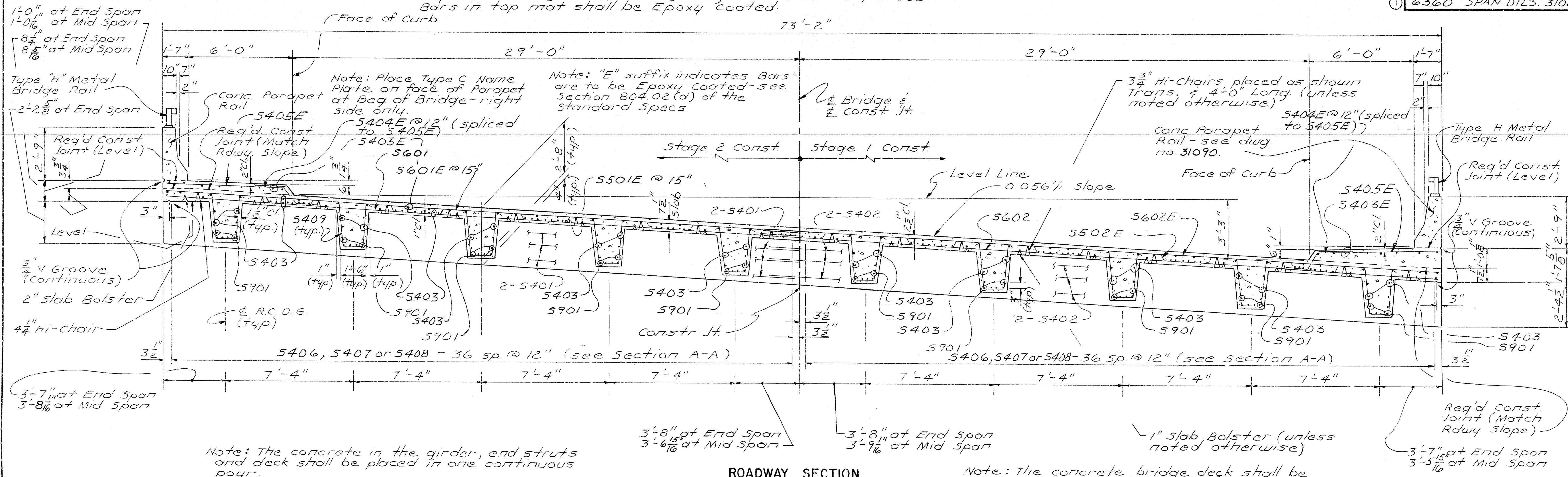
DETAILS OF INT. BENT
NOS. 2 & 3
SOUTH CHANNEL TAYLOR LOOP CREEK
PULASKI COUNTY
ROUTE 10 SEC 8
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: EJK DATE: 6-13-88
CHECKED BY: GVA DATE: 2-22-90
DESIGNED BY: ARN DATE: Sept-87
BRIDGE NO. 6360 DRAWING NO. 31087

EJK E553, BR60030, 003, 1, 550, 3001, R60030

Note: Boiled Linseed Oil Treatment shall be applied to the roadway surface and to the face and top of the concrete Parapet Rail and Sidewalk.

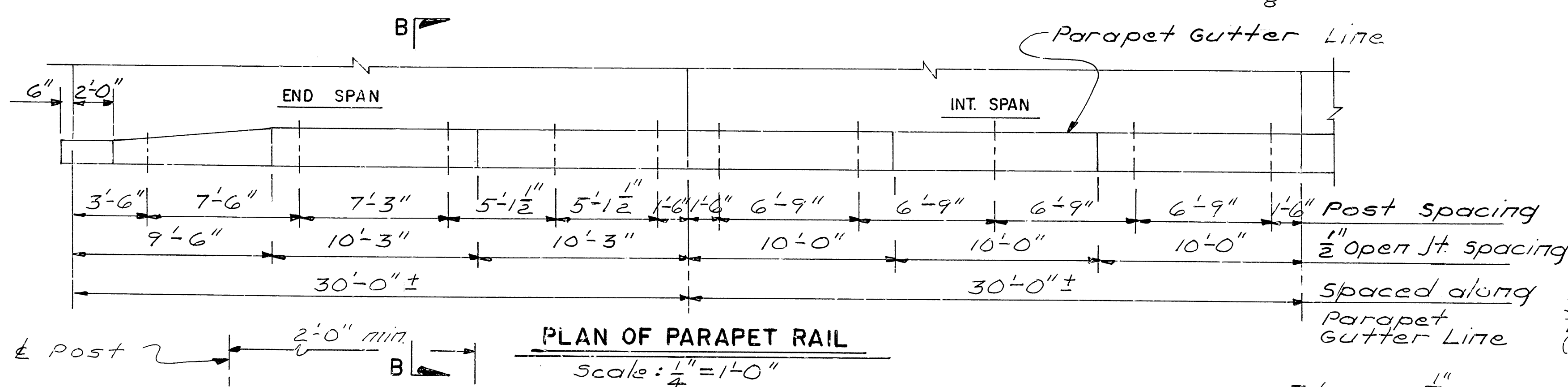
Note: At the Contractors option, in Lieu of providing Bar S501E & S502E, one number 5 Bar top & bottom may be substituted. Payment will be Based on the weight of Bar S501E & S502E. Bars in top mat shall be Epoxy Coated.

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						6360 SPAN DTL'S 31088		



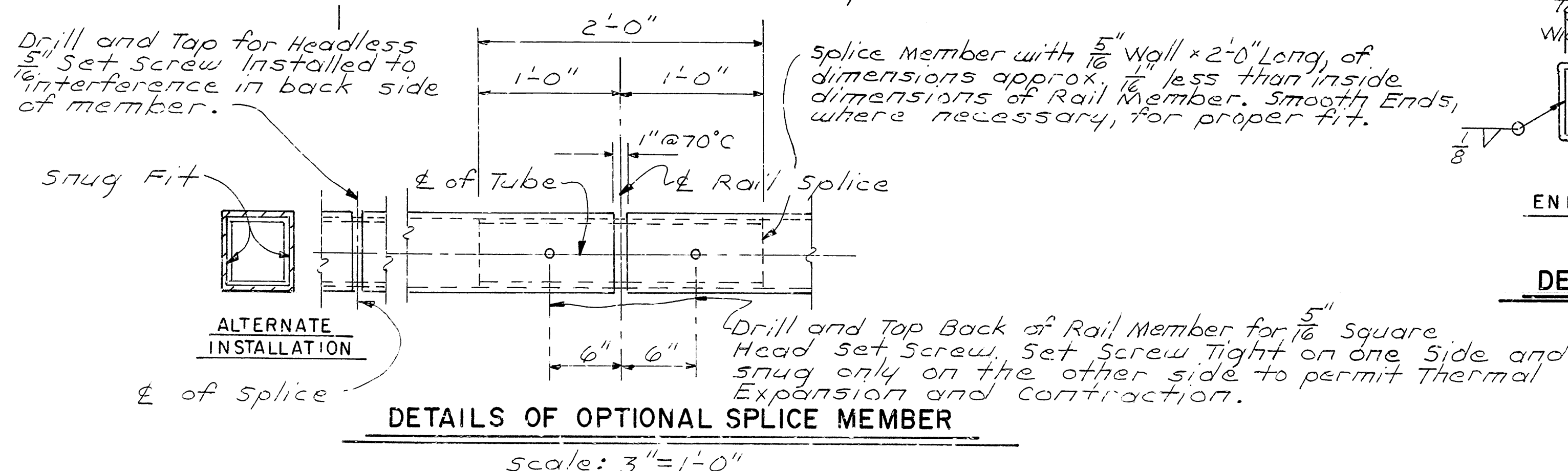
ROADWAY SECTION

Scale: $\frac{3}{8}'' = 1'-0''$



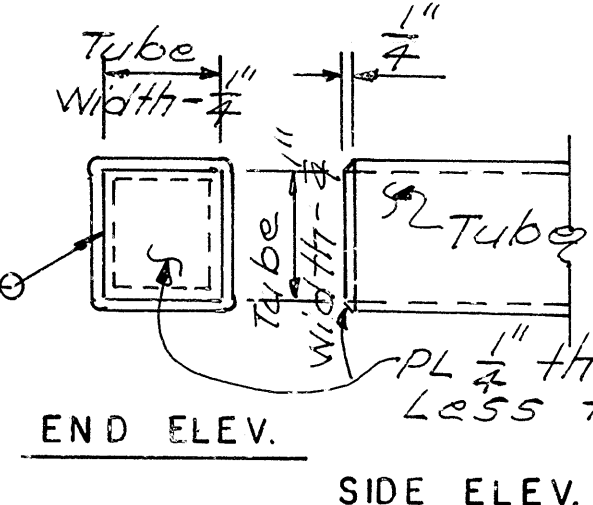
PLAN OF PARAPET RAIL

Scale: $\frac{1}{4}'' = 1'-0''$



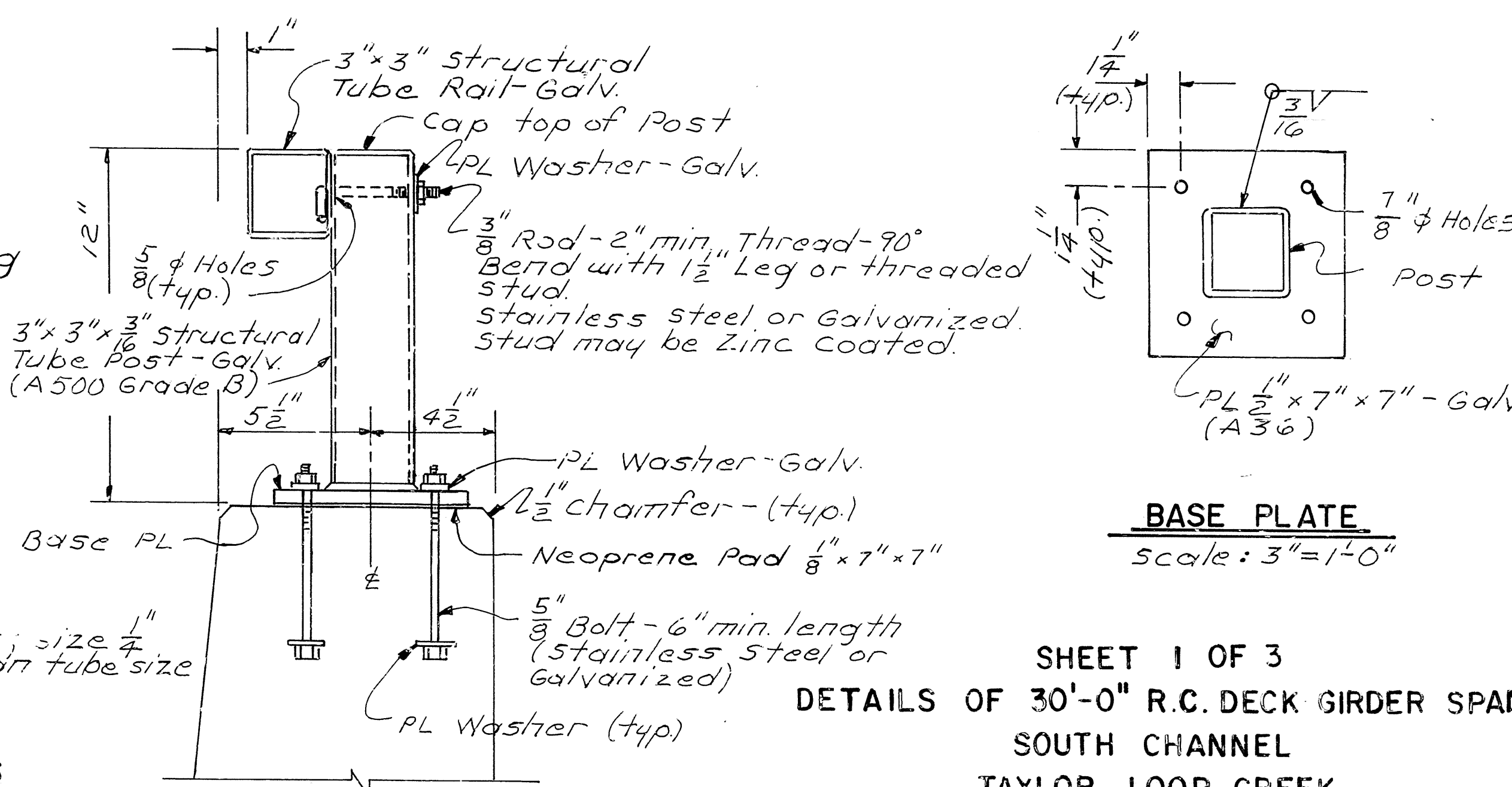
DETAILS OF OPTIONAL SPLICE MEMBER

Scale: $3'' = 1'-0''$



DETAILS OF END CAPS

Scale: $3'' = 1'-0''$



SECTION B-B

Scale: $3'' = 1'-0''$

BASE PLATE

Scale: $3'' = 1'-0''$

SHEET 1 OF 3
DETAILS OF 30'-0" R.C. DECK GIRDER SPANS
SOUTH CHANNEL
TAYLOR LOOP CREEK
PULASKI COUNTY
ROUTE 10 SEC. 8
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: J.P.S. DATE: 1-15-90
CHECKED BY: GVA DATE: 2-22-90
DESIGNED BY: ARW DATE: Sept-87
SCALE: as noted
BRIDGE NO. 6360 DRAWING NO. 31088

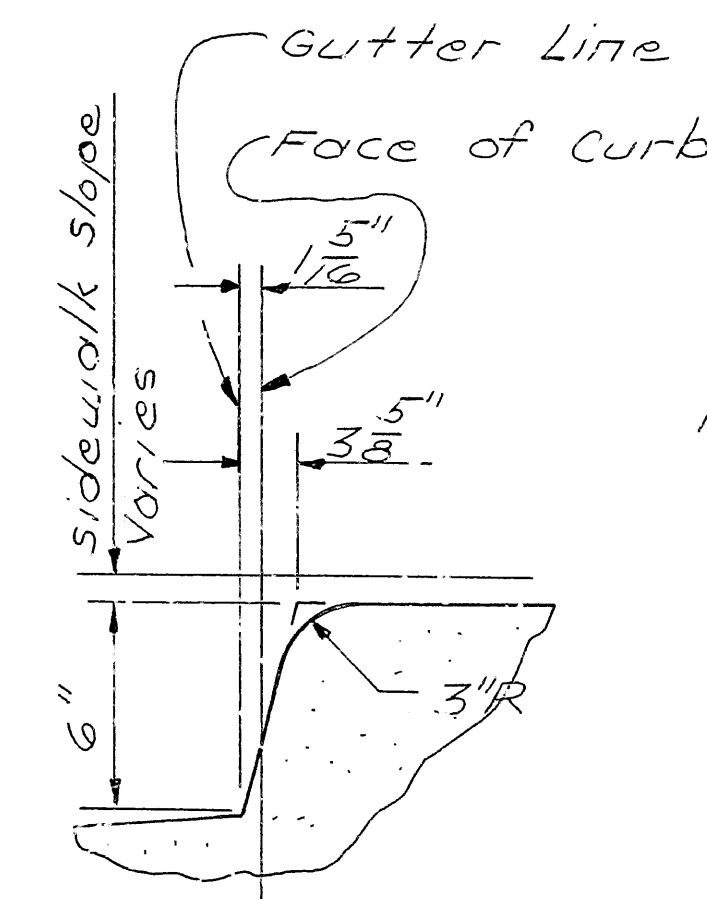
[illegible]

Scale: $\frac{1}{8000000}'' = 1''$

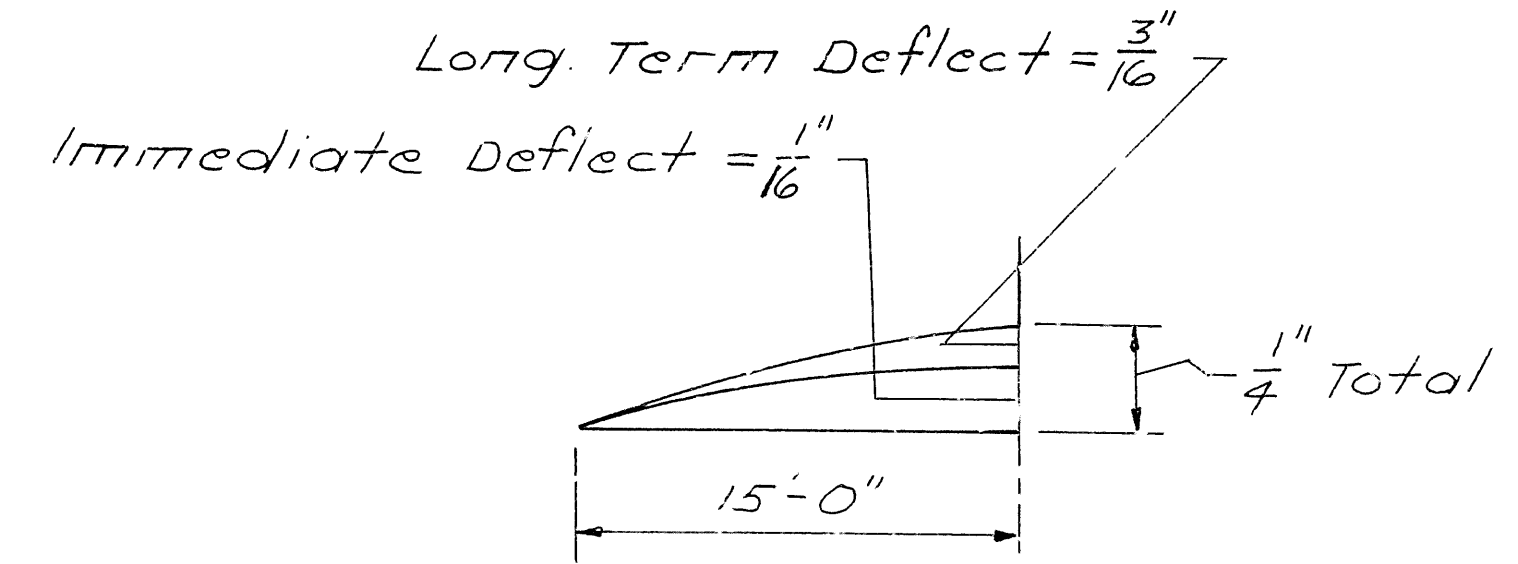
Note: Reinforcing steel is the same for End & Int. Spans, except as noted

[illegible]

scale: $\frac{3}{4}'' = 1'-0''$



No Scale



No scale

BRIDGE NO. 6360 DRAWING NO. 31089

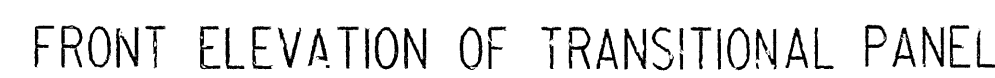
① 6360 SPAN 31090



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



Scale : $\frac{3}{4}" = 1'-0"$



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



Scale : $\frac{3}{4}'' = 1'-0''$

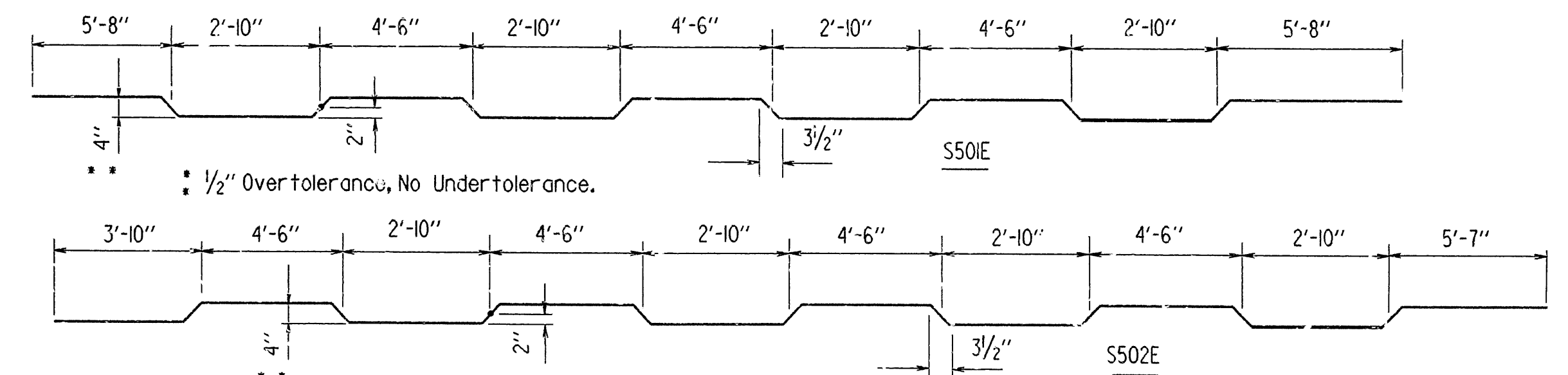


Scale : $\frac{3}{4}'' = 1'-0''$



Scale : $\frac{3}{4}'' = 1'-0''$

BENDING DIAGRAMS
(Dimensions are out to out of bars.)



High Side of Roadway : R406E, R407E, R408E & S411E.

SHEET 3 OF 3
DETAILS OF 30'-0" R.C. DECK GIRDER SPANS
SOUTH CHANNEL
TAYLOR LOOP CREEK
PULASKI COUNTY
ROUTE 10 SEC. 8
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: J.P.S. DATE: 2-1-90
 CHECKED BY: GVA DATE: 2-22-90 SCALE: As Shown
 DESIGNED BY: A.B.W. DATE: Sept. 87
 BRIDGE NO. 6360 DRAWING NO. 31090