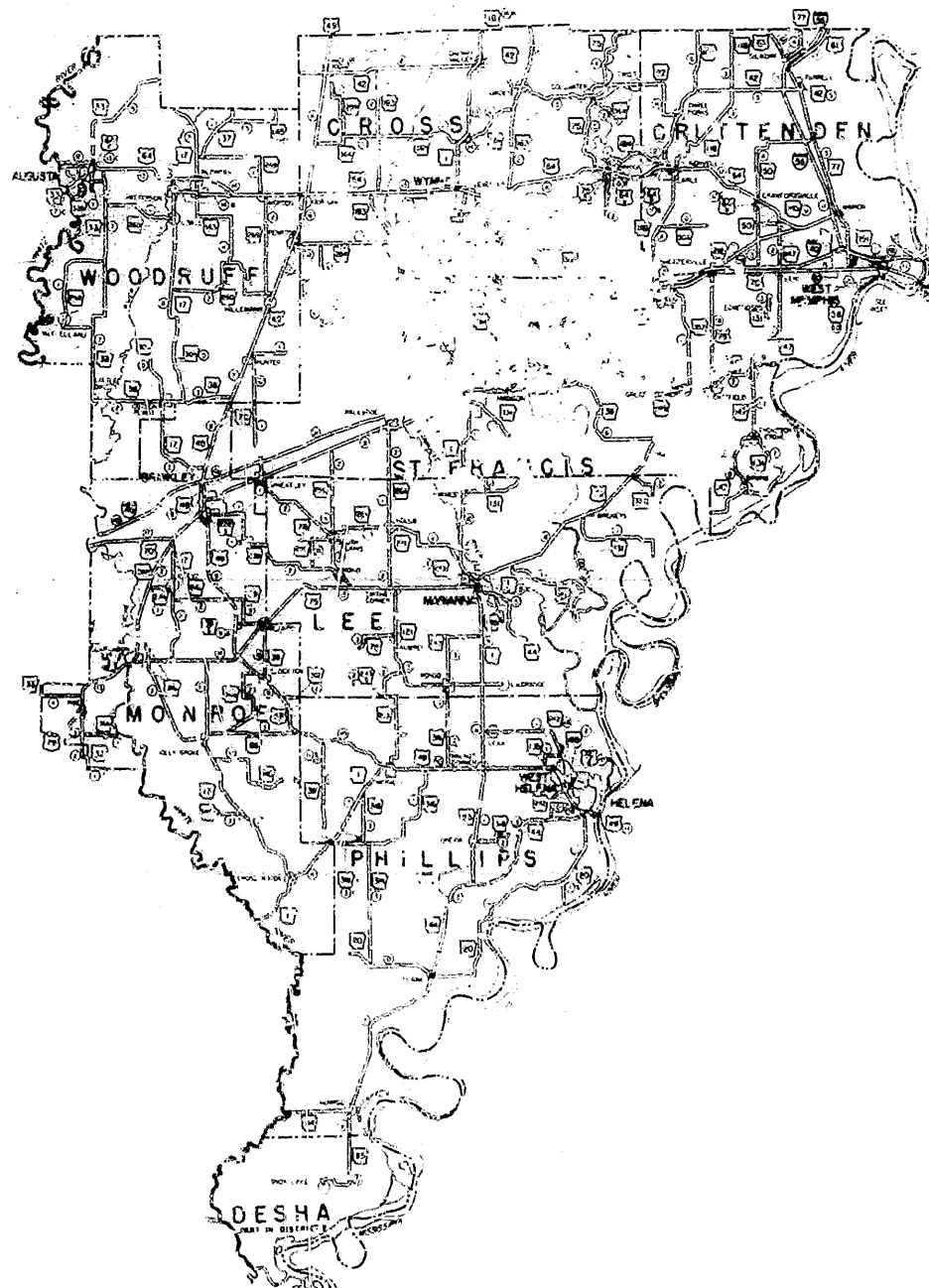


DATE REVISION	DATE FILMED	DATE REVISION	DATE FILMED	RED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						R10008	1	235
② WEST MEMPHIS INTERCHANGE - I-55								

DISTRICT NO. 1



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
CONSTRUCTION PLANS FOR STATE HIGHWAY

WEST MEMPHIS INTERCHANGE - I-55

CRITTENDEN  
COUNTY

ROUTE 40 SECTION 52

FED. AID PROJECT IR-40-5(90)278

JOB R10008

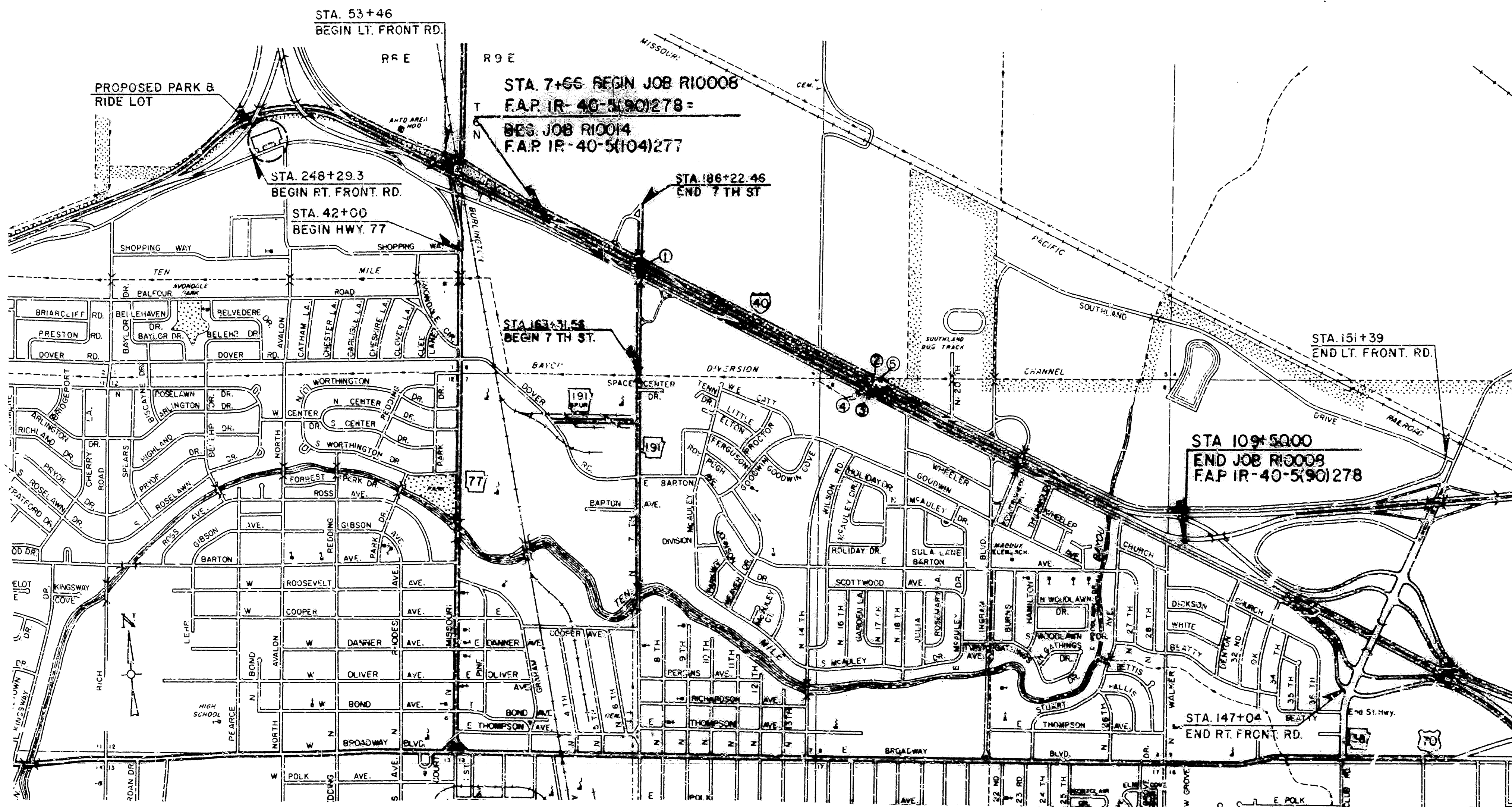
LAYOUT SCALE: 1" = 1000'



ARK. HWY. DIST. NO. 1

BRIDGE DATA

- STA. 175+63.21 BR. END  
382'-7 3/8" COMPOSITE  
W-BEAM SPANS  
BRIDGE NO. 3506  
CLEAR RDWY. 64'-0"  
STA. 179+43.93 BR. END
- STA. 60+76.59 BR. END  
120'-0" R.C. DECK  
GIRDER SPANS  
BRIDGE NO. 2673 R  
CLEAR RDWY. 59'-5"  
STA. 61+97.09 BR. END
- STA. 60+43.11 BR. END  
120'-0" R.C. DECK  
GIRDER SPANS  
BRIDGE NO. 2673 AR  
CLEAR RDWY. VARIES  
STA. 61+63.11 BR. END
- STA. 60+01.54 BR. END  
120'-0" R.C. SLAB SPANS  
BRIDGE NO. 2673 R  
32'-0" CLEAR RDWY.  
STA. 61+21.54
- STA. 61+19.32 BR. END  
120'-0" R.C. SLAB SPANS  
BRIDGE NO. 2673 CR  
32'-0" CLEAR RDWY.  
STA. 62+19.32



LENGTH COMPUTED ALONG C.T. LANES & IS SHOWN FOR INFORMATION ONLY

GROSS LENGTH OF PROJECT	10184.00 FEET OR	1.929 MILES
NET " " ROADWAY	10064.00 " "	1.906 " "
NET " " BRIDGES	120.00 " "	.023 " "
NET " " PROJECTS	10184.00 " "	1.929 " "

DESIGN DATA

DESIGN YEAR	2008
1988 ADT =	55,130
2008 ADT =	88,590
DHV =	9,745
D =	0.60
T =	25%
V =	70 MPH

SECTION 404 PERMIT NOT REQUIRED

RECOMMENDED FOR APPROVAL

BRIDGE DESIGN ENGINEER

ROADWAY DESIGN ENGINEER

DISTRICT ENGINEER

APPROVED

CHIEF ENGINEER

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
RECOMMENDED FOR APPROVAL

DATE

APPROVED

DIVISION ENGINEER

DATE

P.E. JOB 1820  
044-0400-305

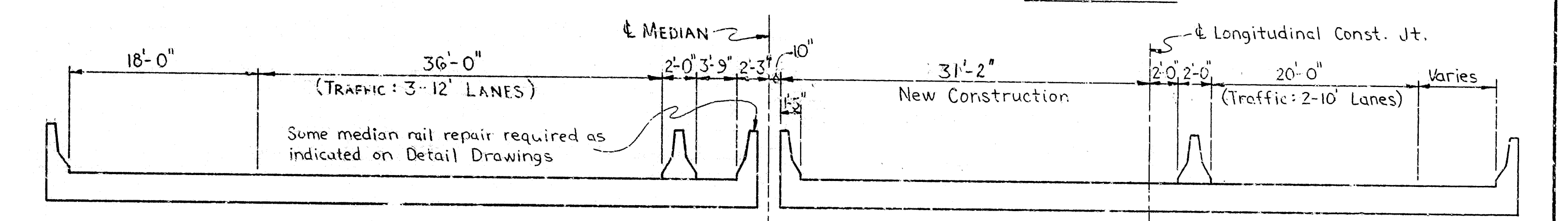
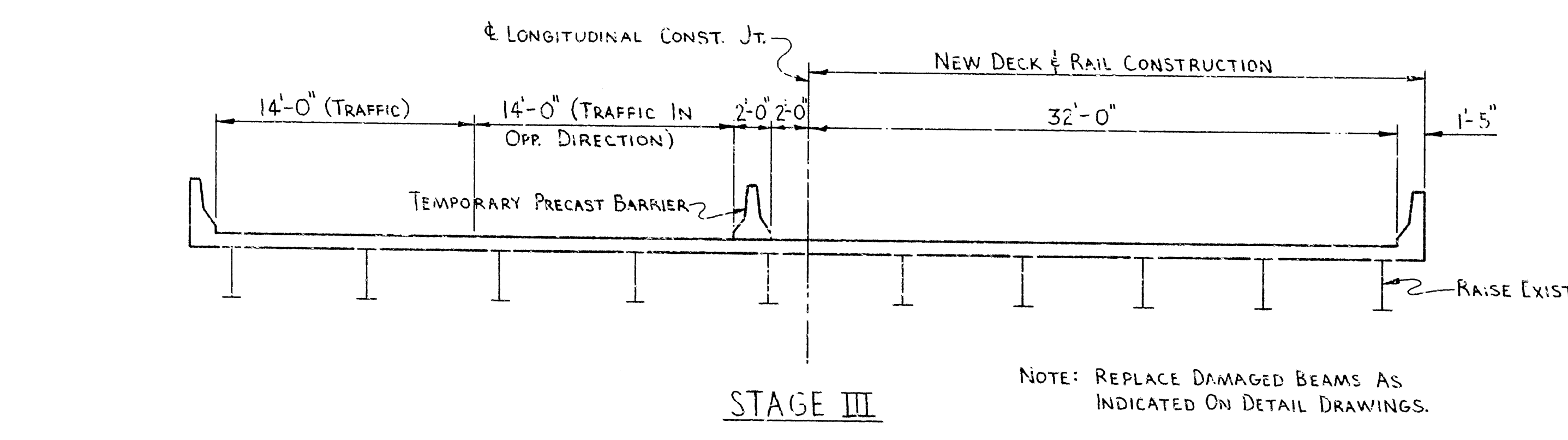
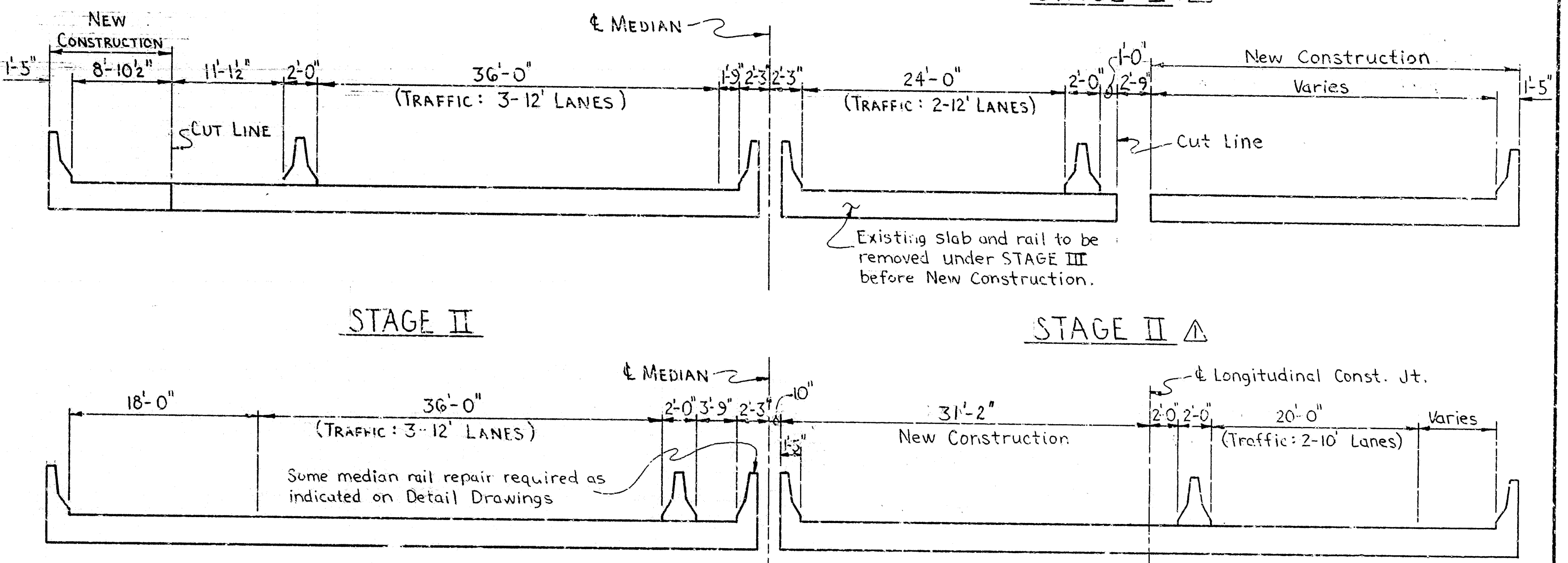
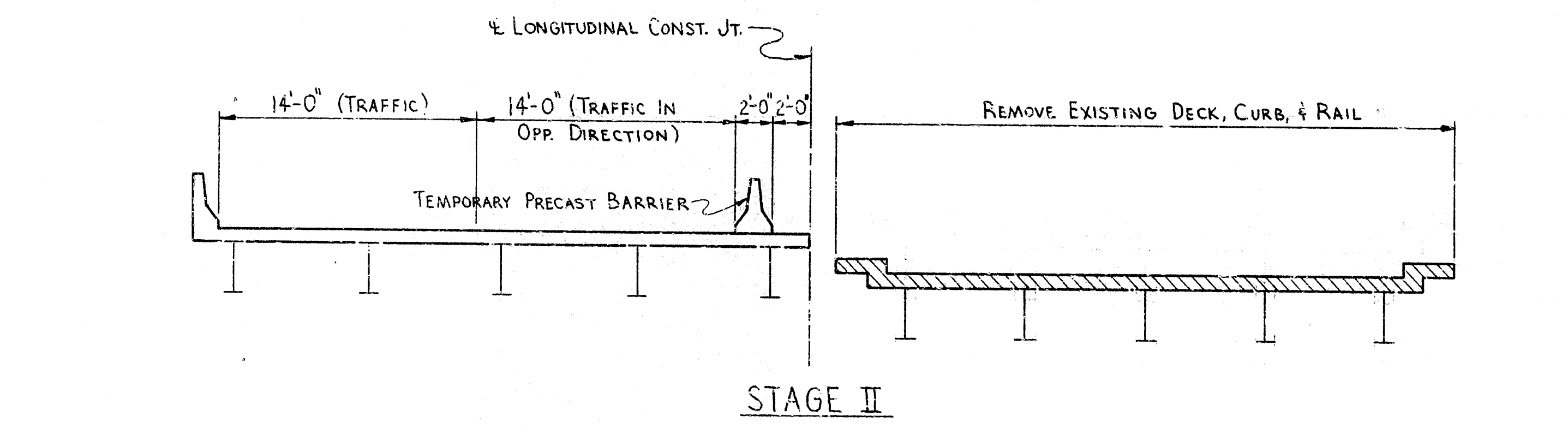
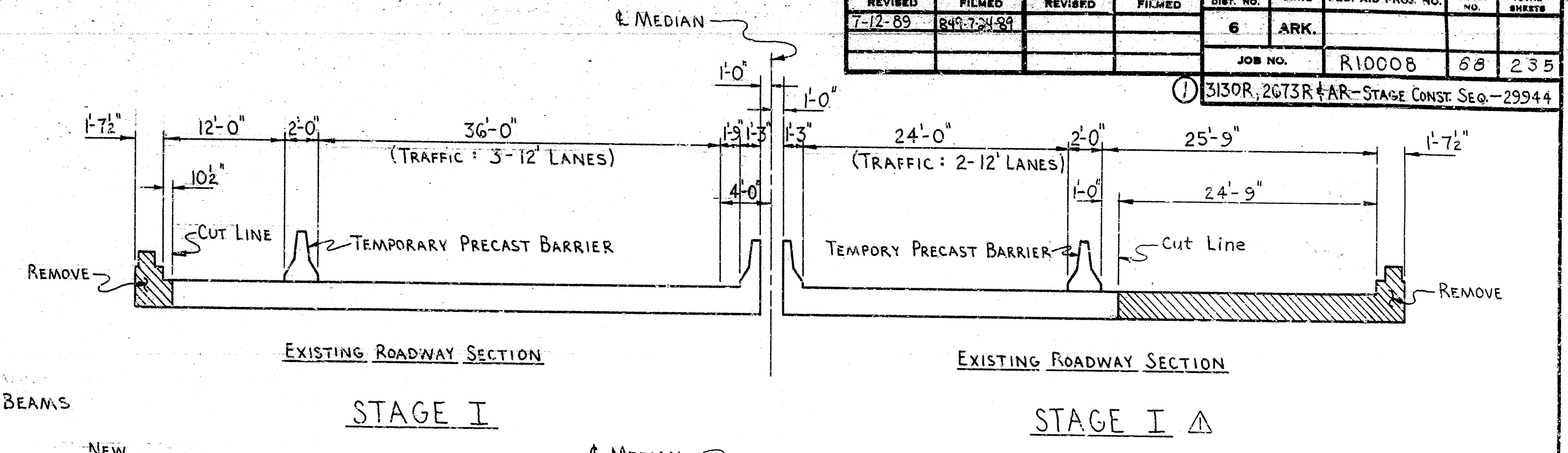
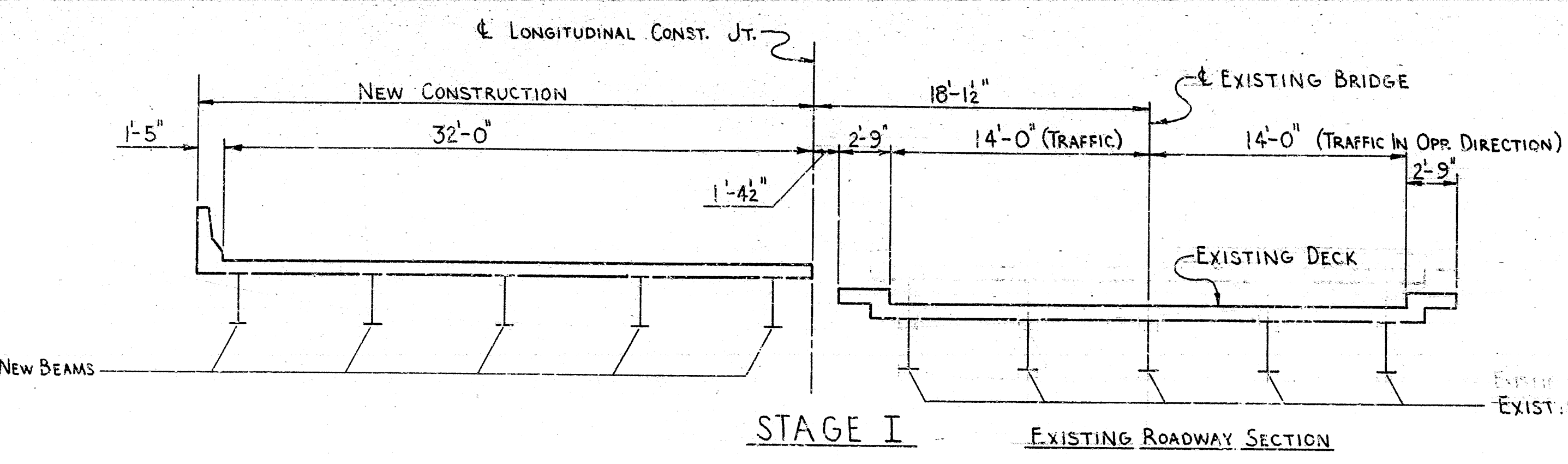






122

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
7-12-89	8-17-89			6	ARK.			
				JOB NO.	R10008 68 235			
① 3130R, 2673R & AR-STAGE CONST. SEQ.-29944								



NOTE: UNDER EACH STAGE, TEMPORARY BARRIERS ARE POSITIONED TO MATCH LOCATIONS OF TEMPORARY BARRIERS IN THE ROADWAY. SEE ROADWAY PLANS.

BRIDGE 3130R  
LOOKING FORWARD

BRIDGE 2673R

BRIDGE 2673R

NOTE: REPLACE DAMAGED BEAMS AS INDICATED ON DETAIL DRAWINGS.

REVISIONS:  
△ Revised Staged Construction for Bridge 2673R. (DPB, 7-12-89)

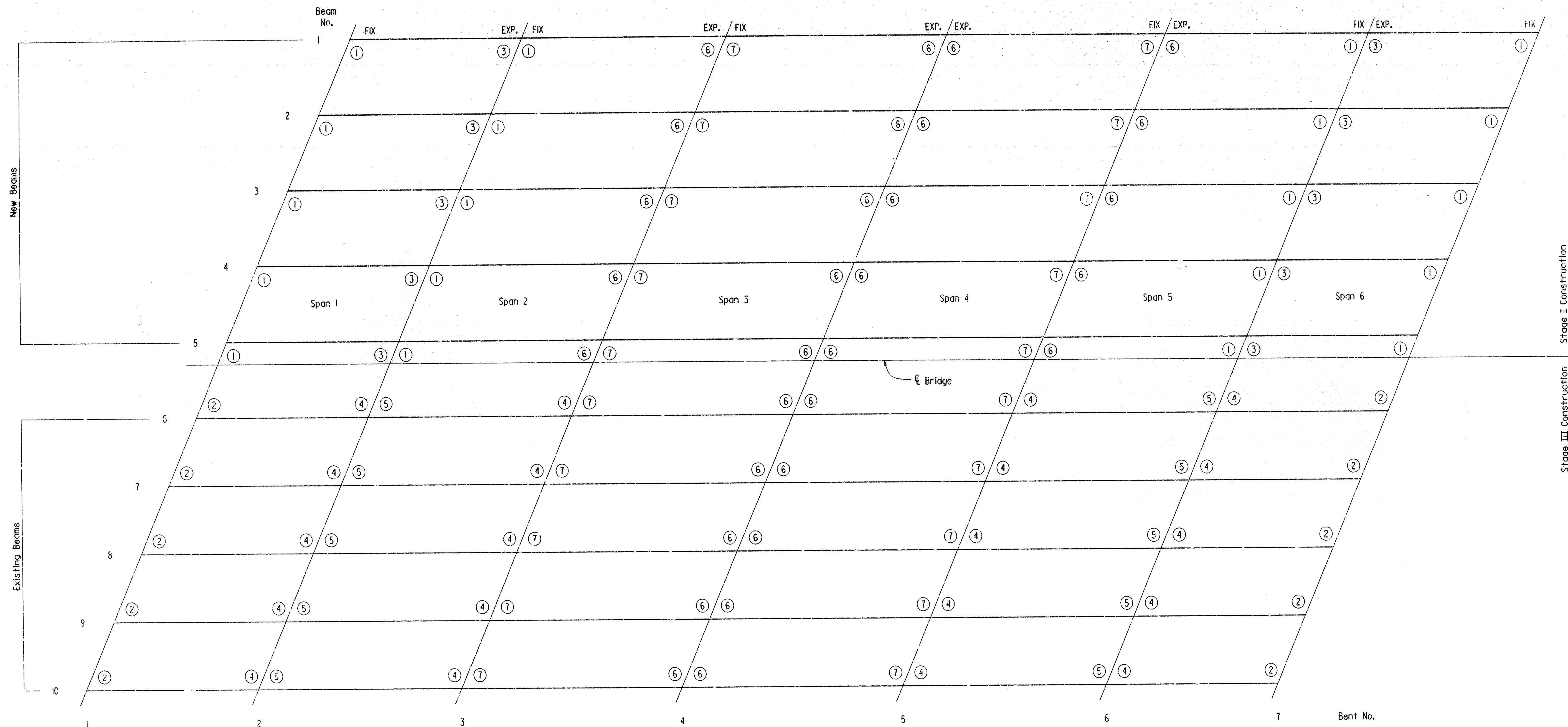
NOTE: THE CONTRACTOR MAY CONSTRUCT ANY PART OF THE SUBSTRUCTURE OR SUPERSTRUCTURE AS SOON AS POSSIBLE UNDER ANY STAGE WHEN APPROVED BY THE ENGINEER.

STAGE CONSTRUCTION SEQUENCE  
WEST MEMPHIS INTERCHANGE-1-55  
CRITTENDEN COUNTY

ROUTE SEC.  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: DRB DATE: 7-26-88  
CHECKED BY: CJF DATE: 8-15-88  
DESIGNED BY: DRB DATE: 7-26-88  
SCALE: NONE  
BRIDGE NO. 3130R 2673R & AR DRAWING NO. 29944

*Paul P. Smith*  
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.		RI0008	69	235
① 3130R - SUPPLEM. DETLS. - 29945								



LOCATION SKETCH FOR NEW & EXISTING SHOES

- ① New Type B-4 Fixed Shoe
- ② Existing Fixed Shoe with New Masonry Plate
- ③ New Type B-4 Expansion Shoe
- ④ Existing Expansion Shoe with New Masonry Plate
- ⑤ Existing Fixed Shoe
- ⑥ New Type D Expansion Shoe
- ⑦ New Type D Fixed Shoe

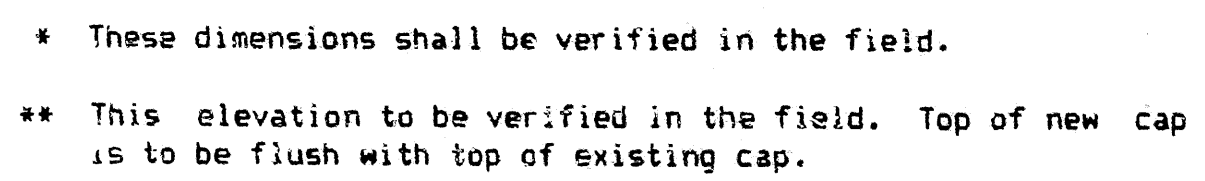
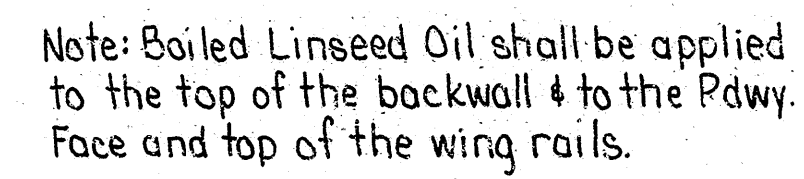
Note: New Anchor Bolts and 1/8" Bearing Pad will be required for all shoes.

SUPPLEMENTARY DETAILS  
7TH STREET  
ROUTE SEC.  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: KDH DATE: 4 AUG 88  
CHECKED BY: C.J.F. DATE: 8-18-88 SCALE: NONE  
DESIGNED BY: D.H.P. DATE: 2-16-88  
BRIDGE NO. 3130R DRAWING NO. 29945

*Koral Pinkerton*  
BRIDGE ENGINEER



124



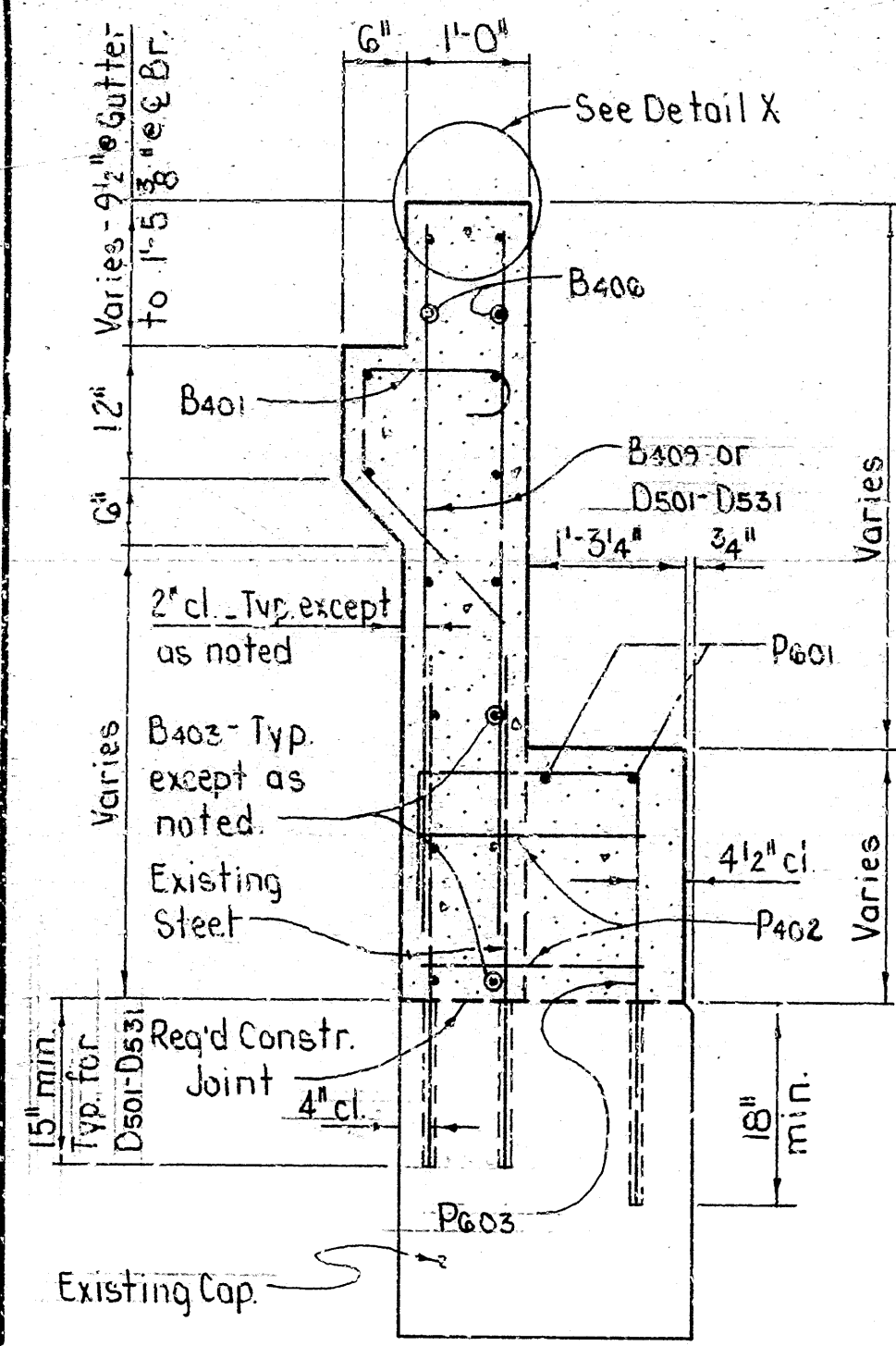
## ELEVATION

Looking Back

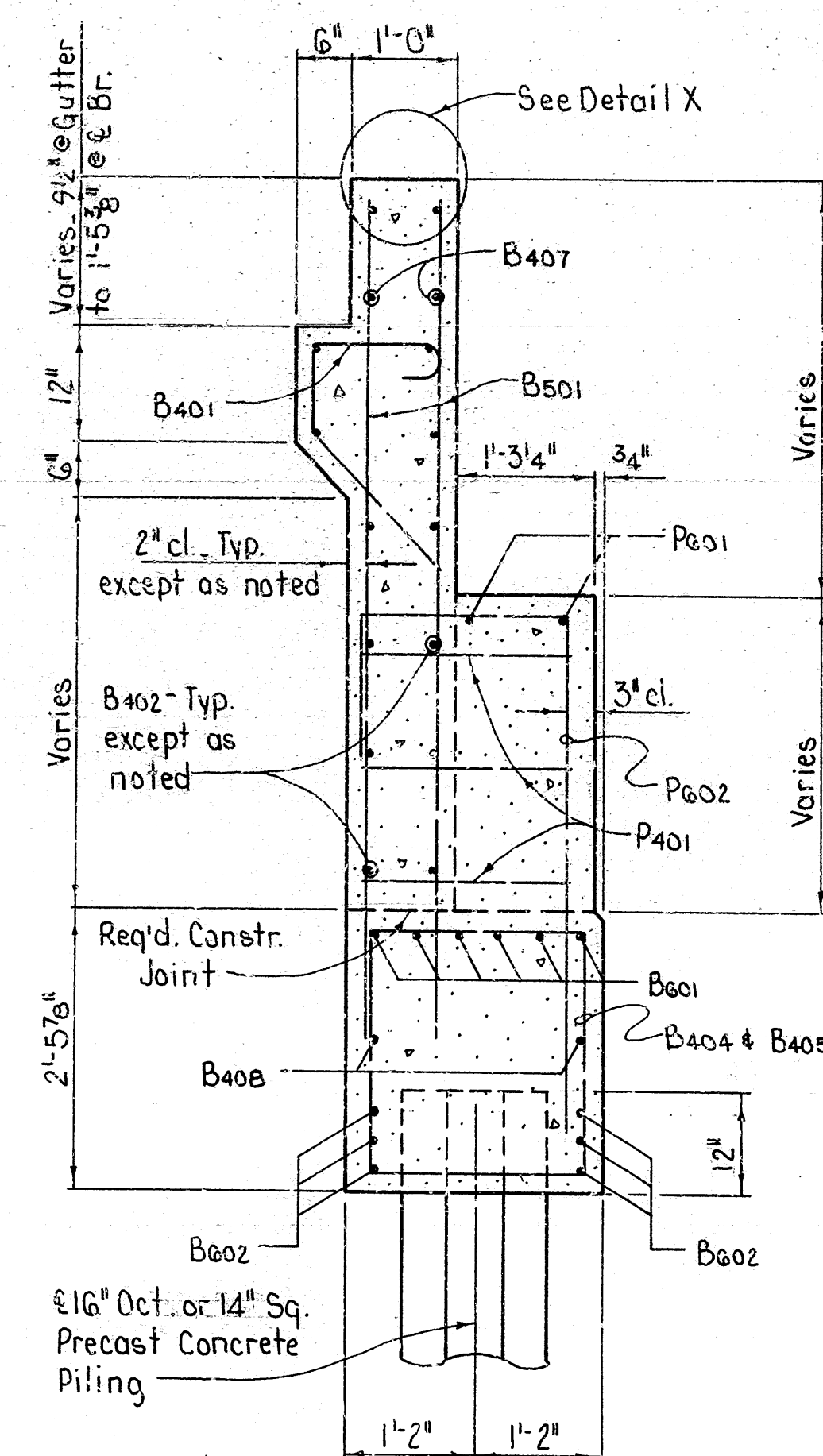
SHEET 1 OF 4  
DETAILS OF REMODELING BENT 1  
7TH STREET  
ROUTE SEC.  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: KDH DATE: 25 MAY 88  
CHECKED BY: C.J.F. DATE: 8-18-88 SCALE: 3/8" = 1'-0"  
DESIGNED BY: D.H.P. DATE: 2-16-88  
BRIDGE NO. 3130R DRAWING NO. 29946



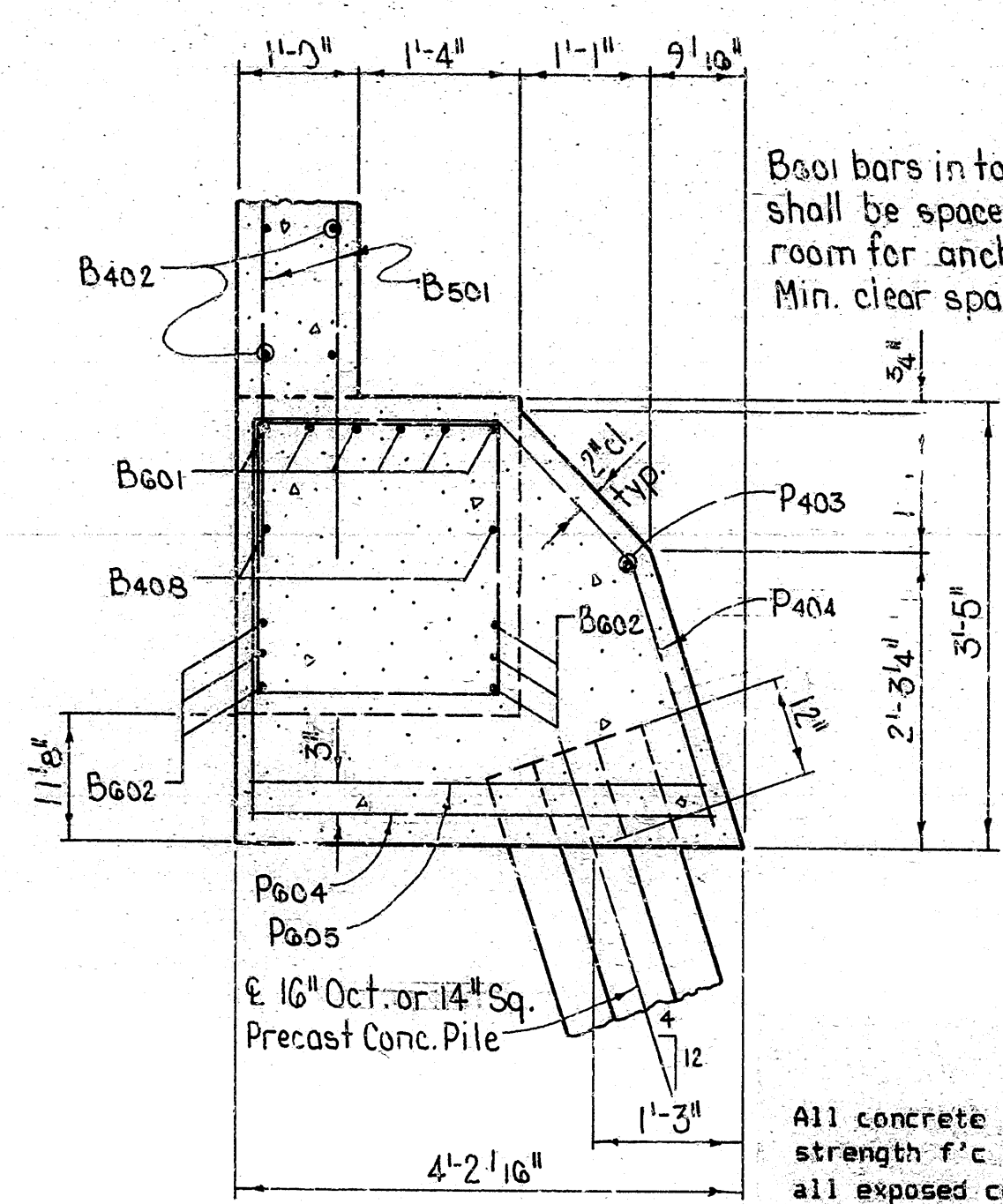
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		R10008	71	235
						3130R - BT. NO. 1 - 29947		



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



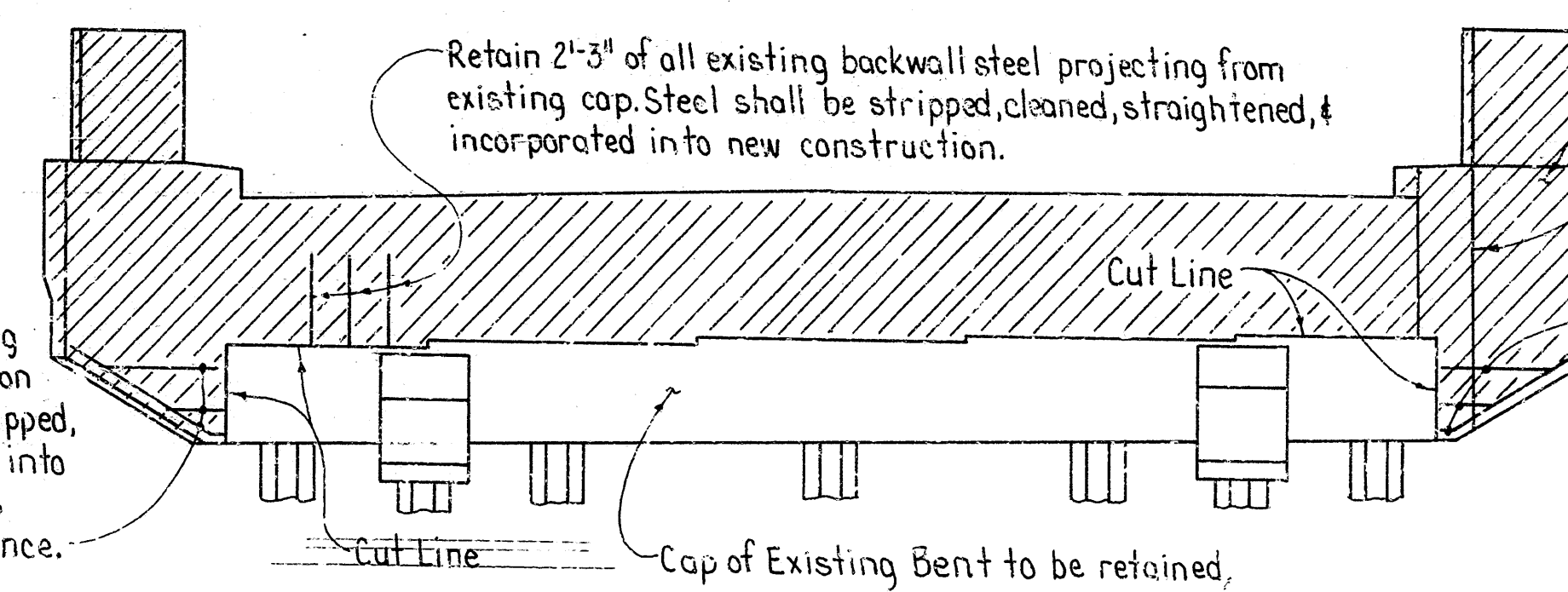
SECTION B-B  
Scale: 3/4"=1'-0"



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

NOTE: Care shall be taken to avoid damage to the existing steel to be retained. If two or more adjacent bars, or two bars separated by only one bar, are broken in the concrete removal or bar straightening process, replacement dowel bars shall be drilled and grouted in place at the contractor's expense.

All reinforcing steel projecting from existing cap into existing wing on this side shall be stripped, cleaned, & incorporated into new wing. Cut steel to provide 2" min. clearance.



REMOVAL DETAILS  
Looking Back - No Scale

General 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.).

The wings & backwall shall not be poured until Span 1 has been poured.

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.

Structural steel in end bents shall be ASTM A36 and shall be paid for as "Structural Steel in Beam Spans (A36)".

For additional notes see layout & Dwg. Nos. 29945 & 29946.

Existing shoes shall have new masonry plates as shown in details. Use Type B-4 shoes for new beams with clips as shown in details. For details of B-4 shoes, see Dwg. No. 29946. All shoes will have 1/8" bearing pad.

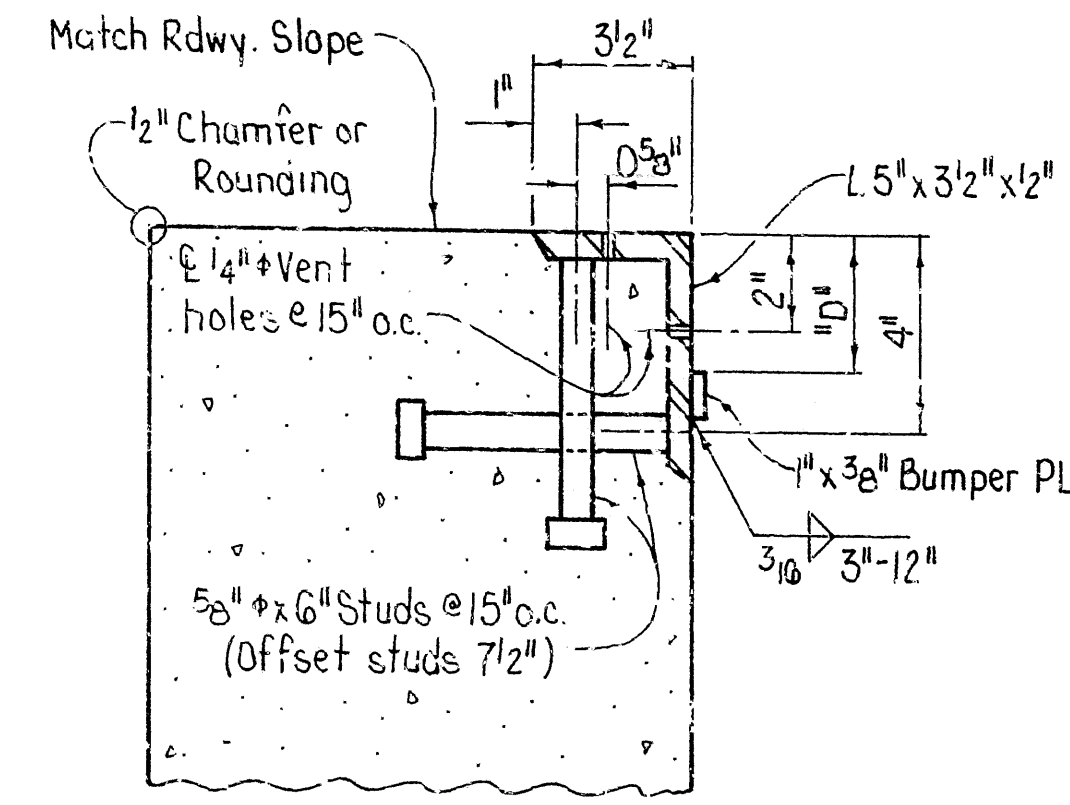
BAR LIST

MARK	NO.	REQ'D.	LENGTH	P.D.	BENDING DIAGRAMS
B401	66	3'-11"	2"		
B402	14	38'-11"	2"		
B403	14	35'-7"	2"		
B404	47	8'-8"	2"		
B405	15	6'-2"	2"		
B406	2	23'-10"	Str.		
B407	2	26'-6"	Str.		
B408	2	39'-4"	Str.		
B409	60	5'-6"	Str.		
P401	14	5'-11"	2"		
P402	10	5'-8"	2"		
P403	2	2'-4"	Str.		
P404	6	8'-11"	2"		
S401	3	7'-8"	Str.		
S402	4	7'-0"	Str.		
D401*	2	7'-2"	Str.		
D402*	1	6'-8"	Str.		
B501	105	7'-6"	Str.		
D501*	2 ea.	Var. 6'-10" to 7'-5"	Str.		
B601	6	40'-0"	4 1/2"		
B602	6	39'-4"	Str.		
P601	20	2'-4"	Str.		
P602	20	6'-8"	4 1/2"		
P603*	20	5'-8"	4 1/2"		
P604	2	13'-0"	4 1/2"		
P605	2	12'-10"	4 1/2"		
S601	7	6'-11"	4 1/2"		
S602	7	8'-5"	4 1/2"		
D601*	4	3'-0"	Str.		

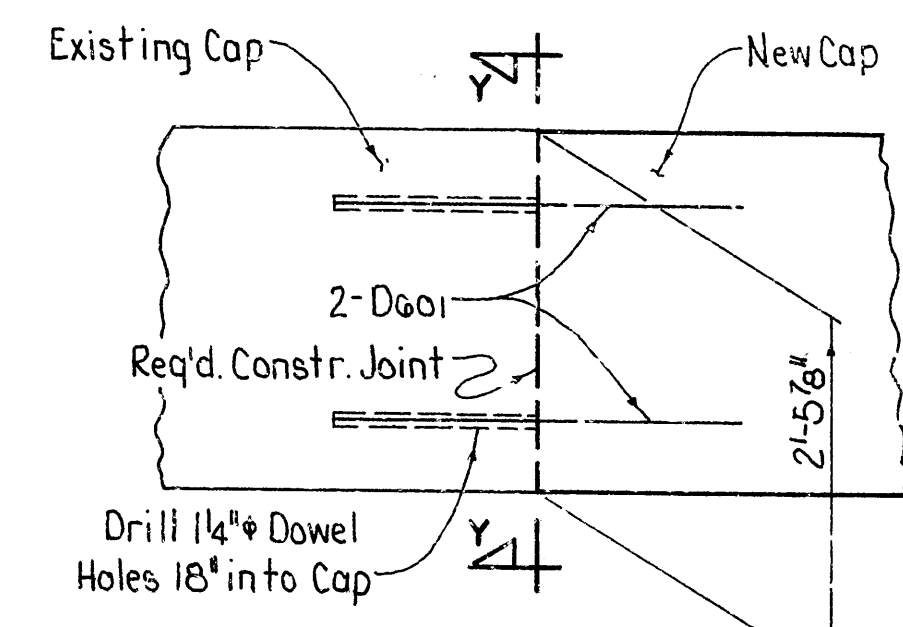
Dimensions are out to out of bars.

NOTE: For Bar Lists & Bending Diagrams for Wings, See Dwg. Nos. 29948 & 29949.

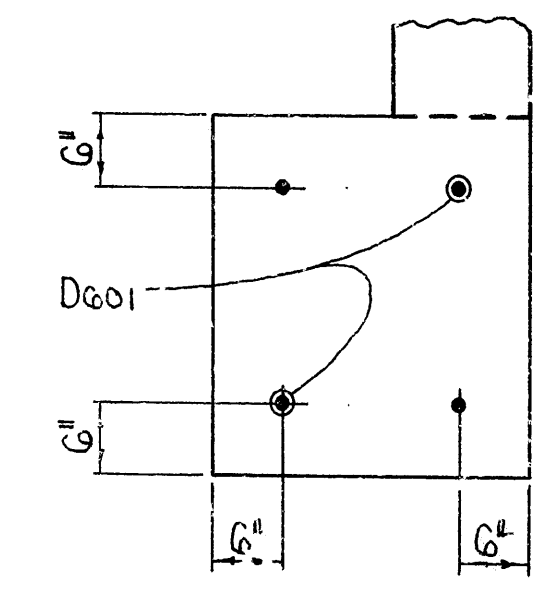
\* Payment for furnishing & installing dowel bar will be made under the item "Modification of Existing Bridge Structure (Bridge No. 3130)."



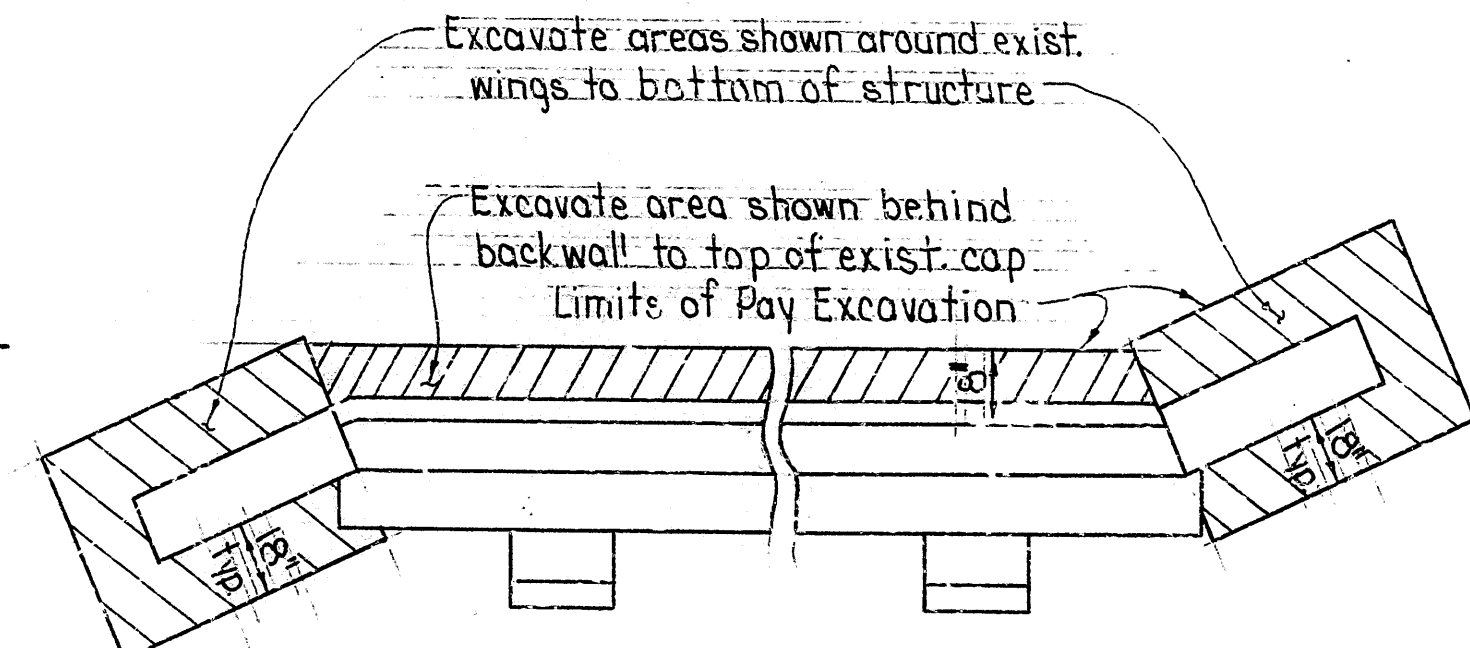
DETAIL X  
Scale: 3/4"=1'-0"



DOWEL DETAIL  
Scale: 3/4"=1'-0"



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



LIMITS OF EXCAVATION FOR EXIST. END BENTS  
No Scale



126

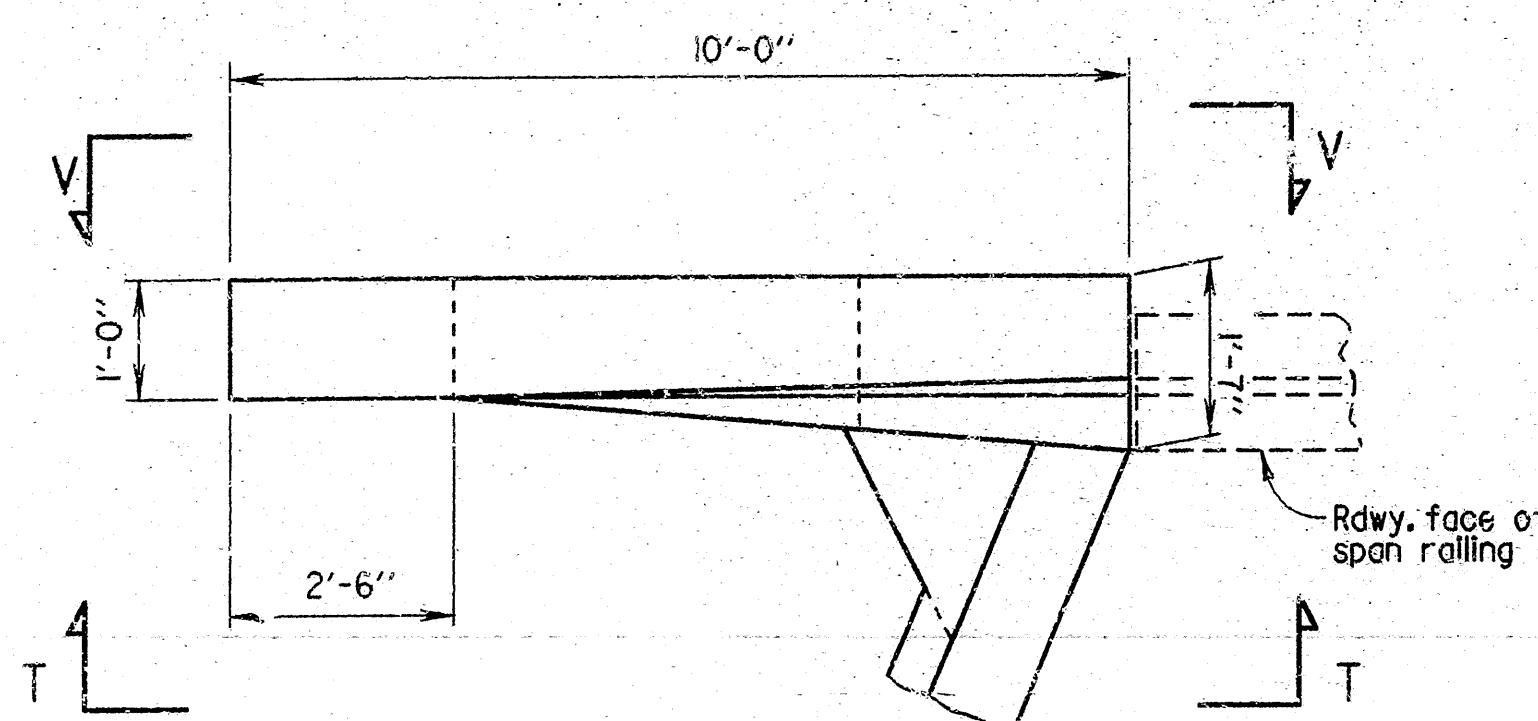
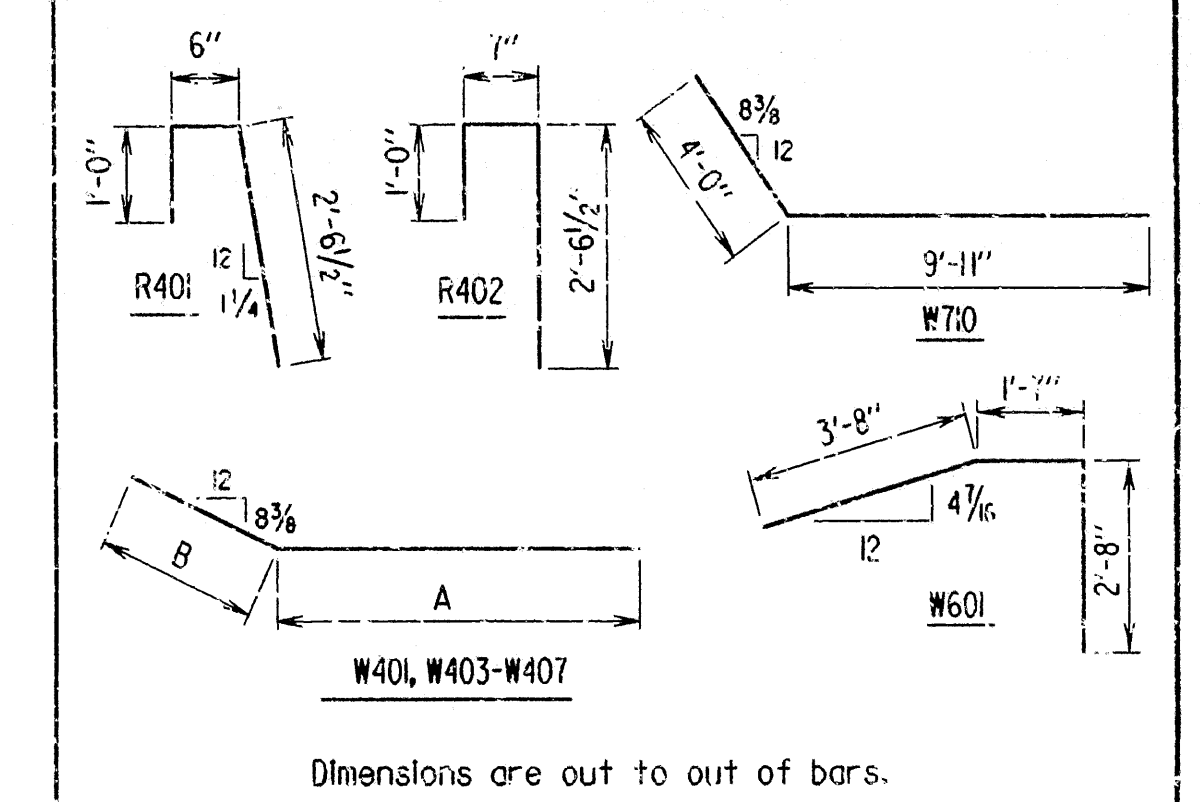
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		RI0008	72	235

3130R - BENT 1 - 29948

### BAR LIST (WING A)

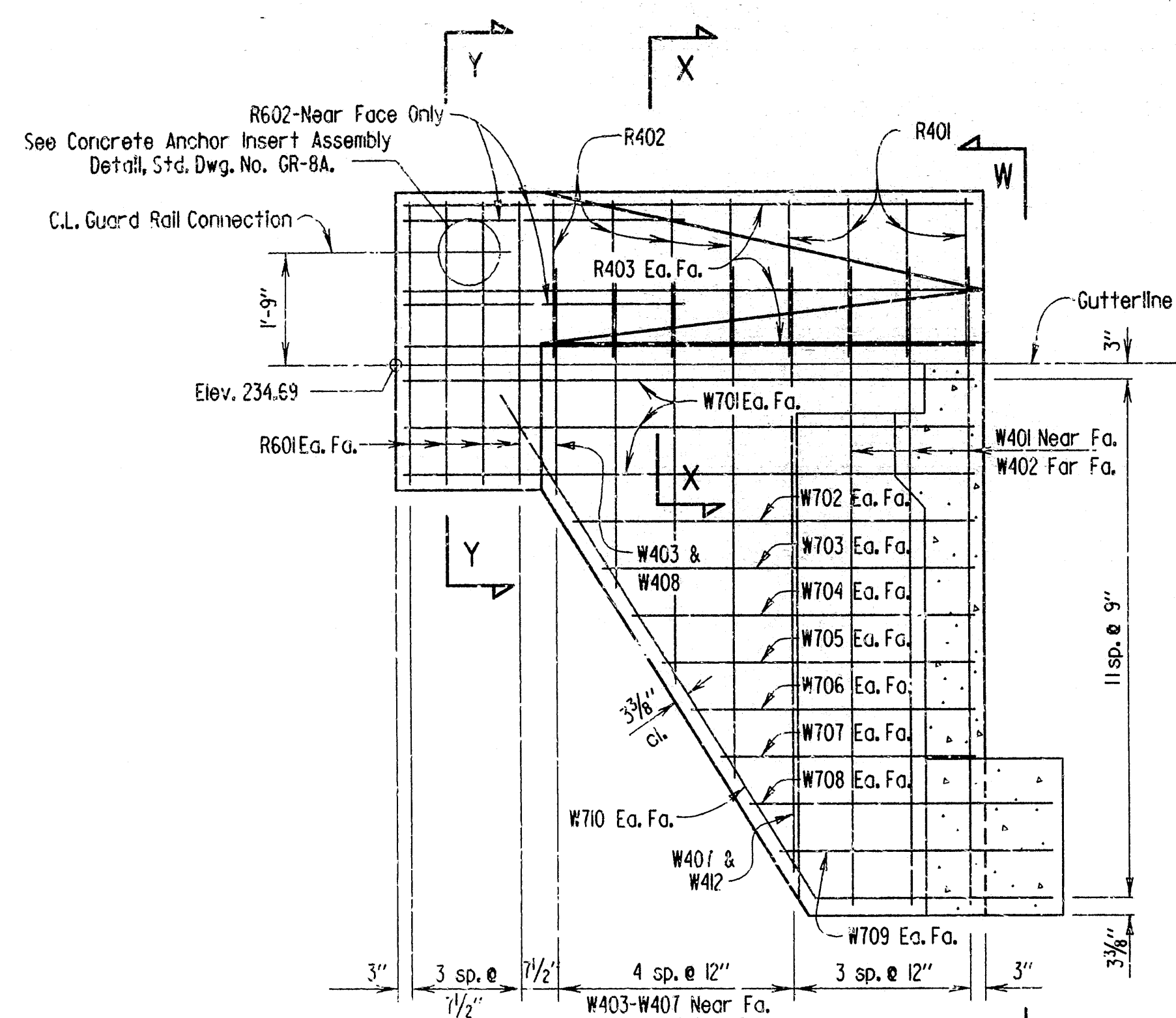
MARK	NO.	REQ'D.	LENGTH	A	B	PIN DIA.
R401	4		3'-11"			2"
R402	4		4'-0"			2"
R403	6		9'-8"			Str.
R601	8		4'-5"			Str.
R602	3		5'-0"			Str.
W401	3		10'-1"	8'-11"	1'-2"	2"
W402	3		11'-2"			Str.
W403-W407	1 of each		Var. 3'-6" to 9'-4"	Var. 2'-4" to 8'-2"	1'-2"	2"
W408-W412	1 of each		Var. 4'-8" to 10'-6"			Str.
W601	4		7'-9"			4 1/2"
W701	6		9'-8"			Str.
W702	2		6'-9"			Str.
W703	2		6'-3"			Str.
W704	2		5'-8"			Str.
W705	2		5'-2"			Str.
W706	2		4'-8"			Str.
W707	2		4'-2"			Str.
W708	2		4'-11"			Str.
W709	2		4'-5"			Str.
W710	2		13'-9"			5 1/4"

### BENDING DIAGRAMS



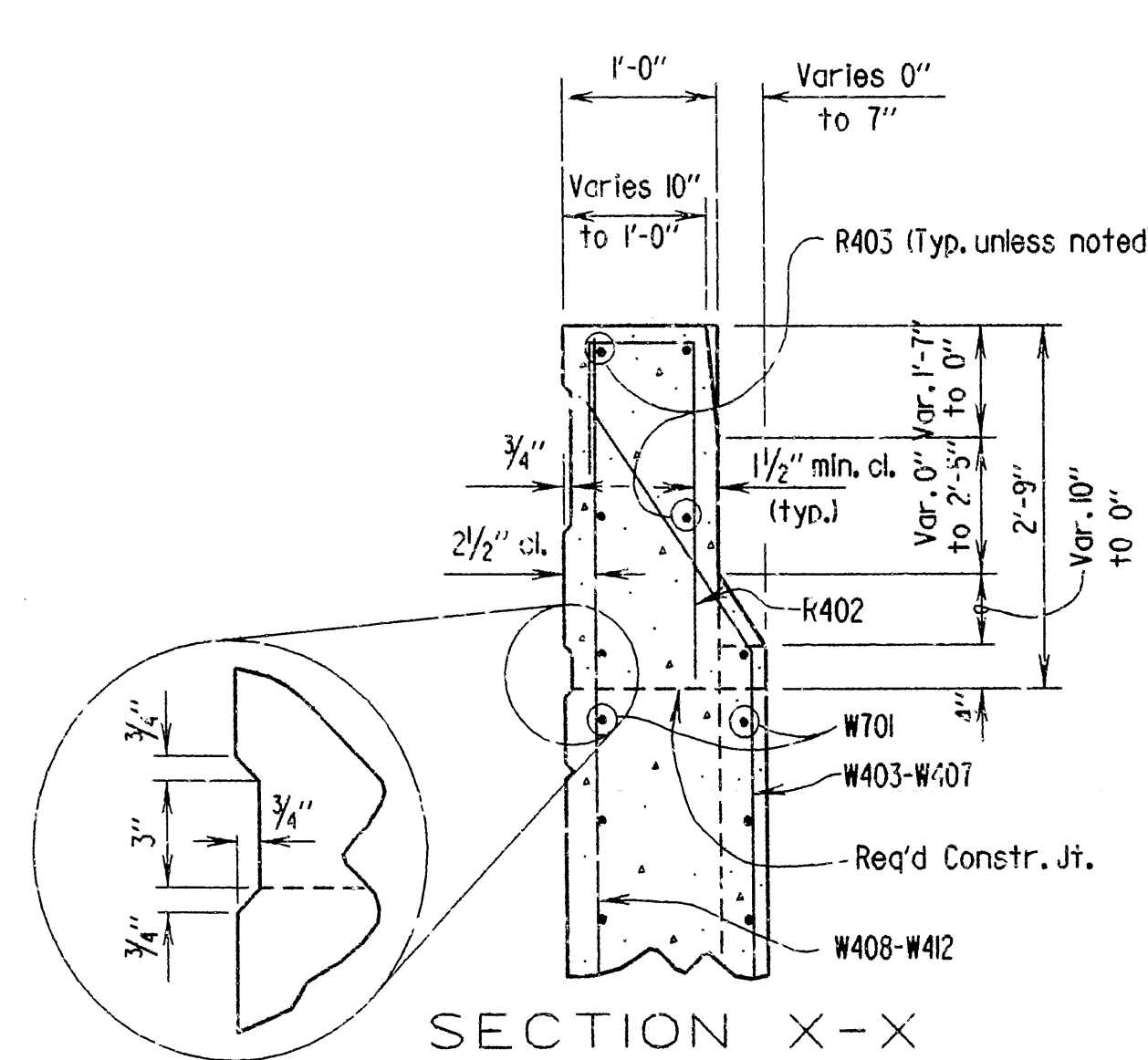
PLAN OF WING A

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



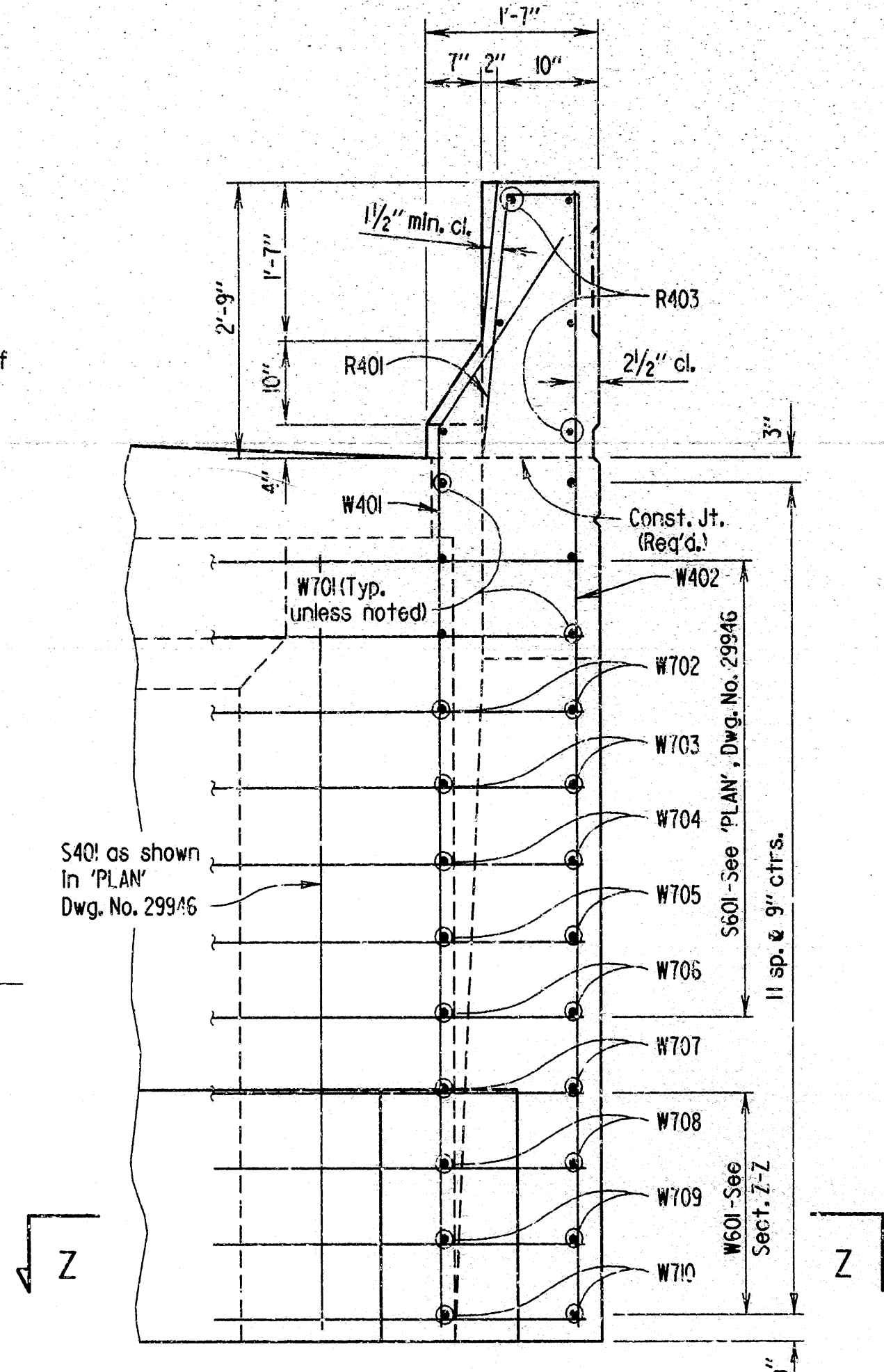
SECTION T-T

1/2" = 1'-0"



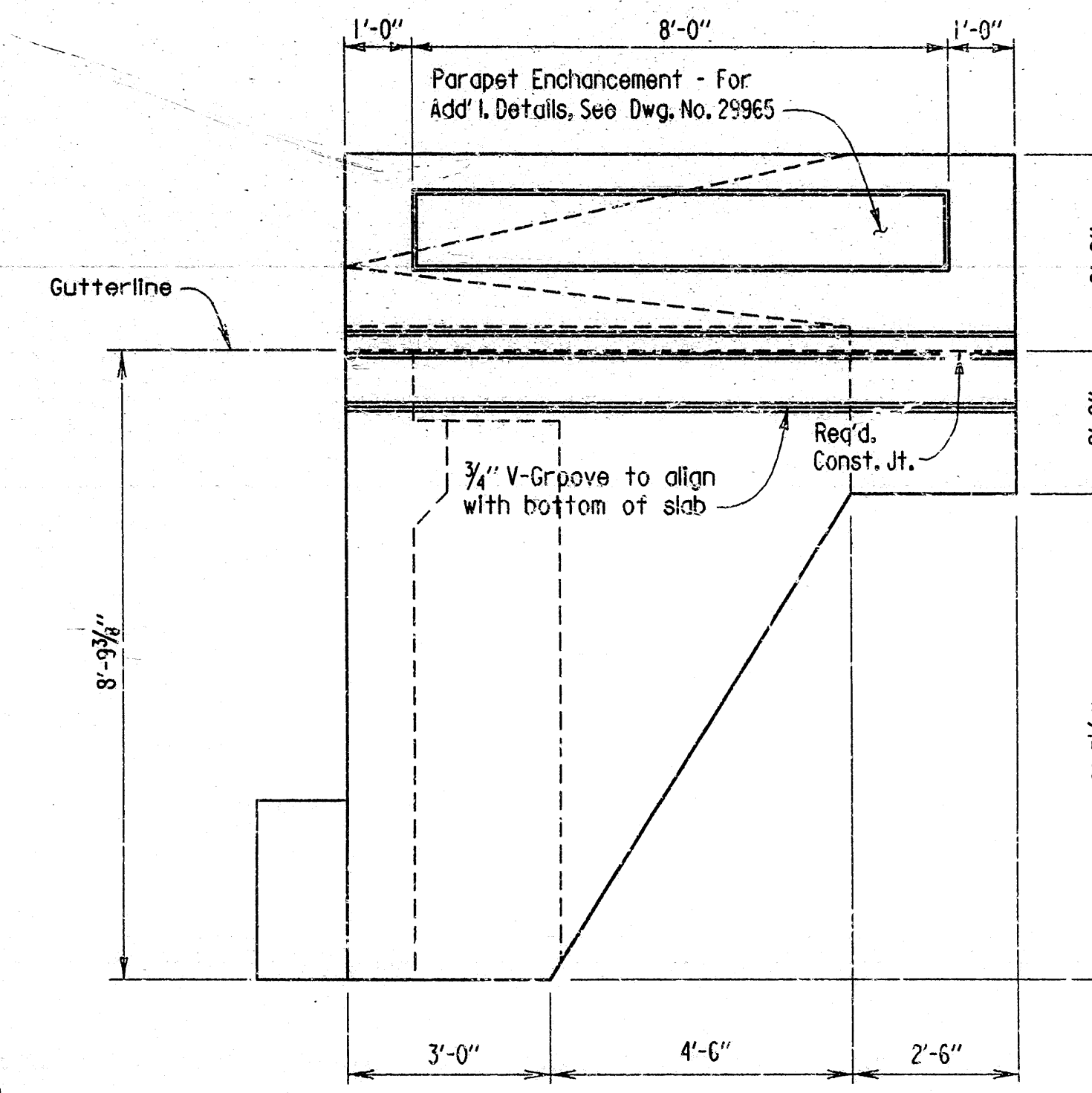
SECTION X-X

3/4" = 1'-0"



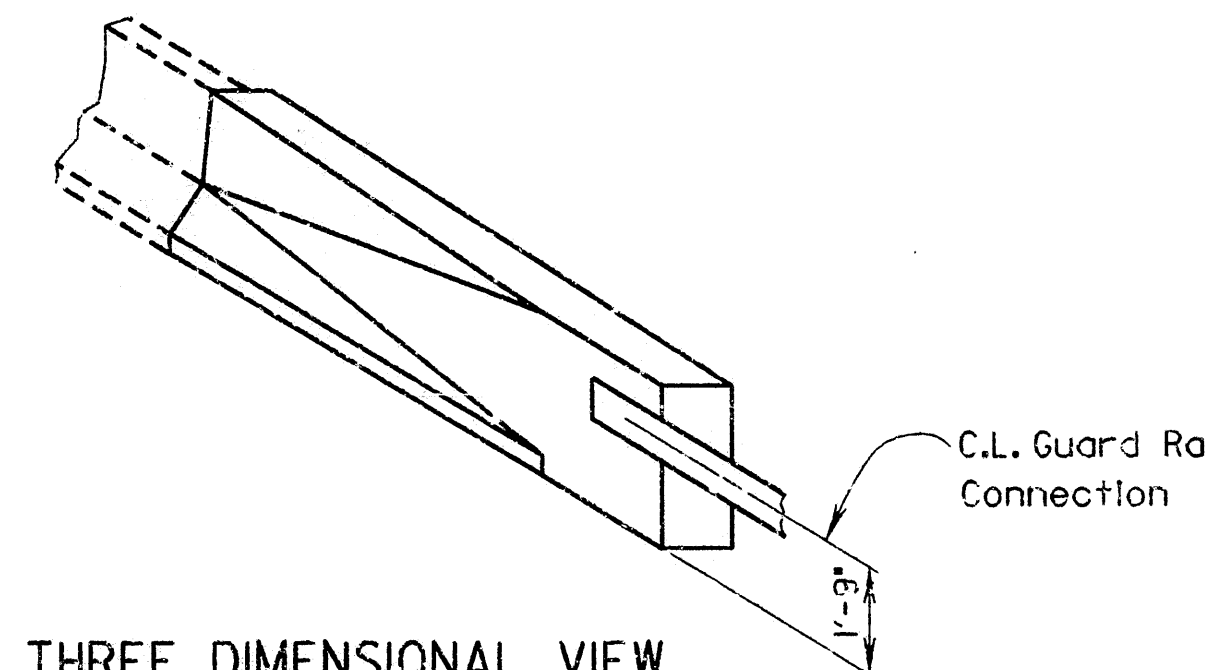
VIEW W-W

3/4" = 1'-0"



VIEW V-V

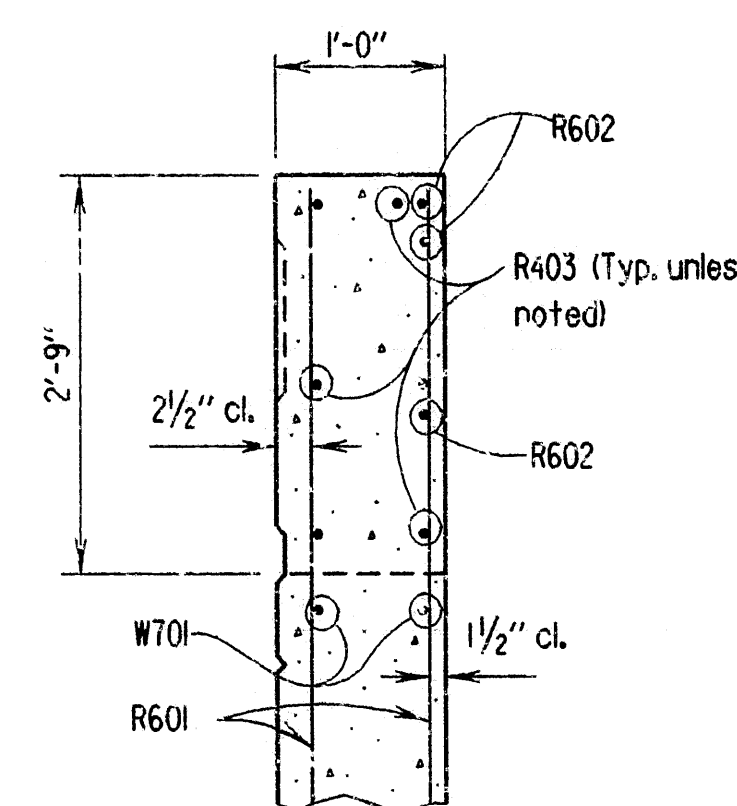
1/2" = 1'-0"



THREE DIMENSIONAL VIEW

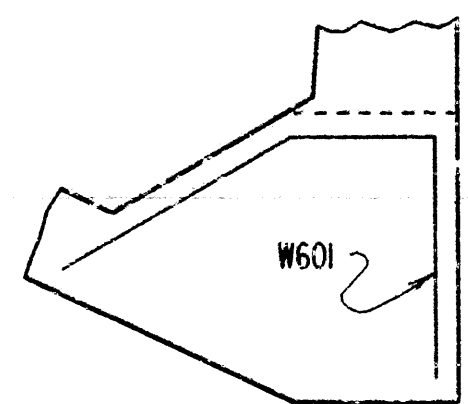
OF RAIL

No Scale



SECTION Y-Y

3/4" = 1'-0"



SECTION Z-Z

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

Note: For details of guard rail connections, see Dwg. No. GR-8 & GR-8A.

SHEET 3 OF 4  
DETAILS OF REMODELING BENT 1  
7TH STREET  
ROUTE SEC.  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: 31 MAY 88  
CHECKED BY: C.J.F. DATE: 8-15-88 SCALE: As Shown  
DESIGNED BY: DATE:  
BRIDGE NO. 3130R DRAWING NO. 29948

*Kenneth Pinkerton*  
BRIDGE ENGINEER

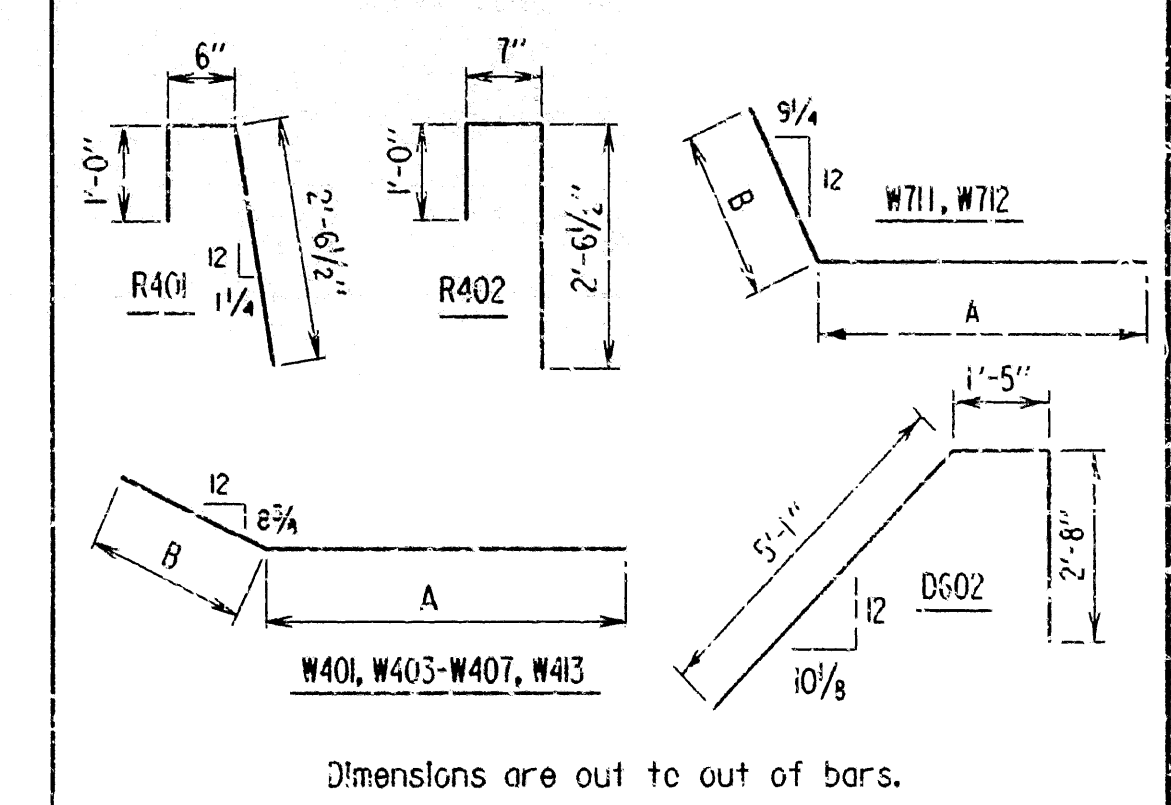


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	R10008	73	235	
				3130R - BENT 1 - 29949				

BAR LIST - WING B

MARK	NO.	REQ'D.	LENGTH	A	B	PIN DIA
R401	4		3'-11"			2"
R402	4		4'-0"			2"
R403	6		9'-8"			Str.
R601	8		4'-5"			Str.
R602	3		5'-0"			Str.
W401	2		9'-5"	8'-3"	1'-2"	2"
W402	3		10'-7"			Str.
W403	1 of each		Var. 3'-6" to 8'-10"	Var. 2'-4" to 7'-8"	1'-2"	2"
W407	1 of each		Var. 4'-8" to 10'-0"			Str.
W408	1 of each		Var. 4'-8" to 10'-0"			Str.
W412	1		7'-4"	5'-11"	1'-2"	2"
W413	3		8'-10"			4 1/2"
W701	6		9'-8"			Str.
W702	2		6'-8"			Str.
W703	2		6'-2"			Str.
W704	2		2'-7"			Str.
W705	2		5'-0"			Str.
W706	2		4'-5"			Str.
W707	1		3'-10"			Str.
W708	1		2'-10"			Str.
W709	1		3'-3"			Str.
W710	1		2'-3"			Str.
W711	1		11'-11"	9'-5"	2'-8"	5 1/4"
W712	1		10'-11"	9'-5"	1'-8"	5 1/4"

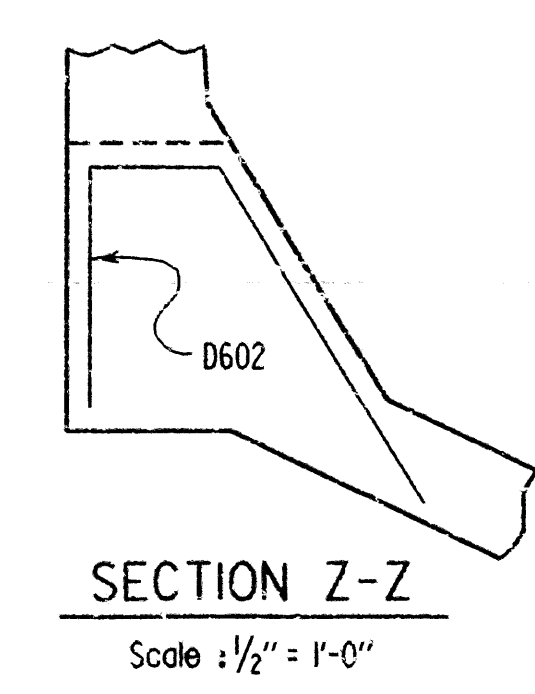
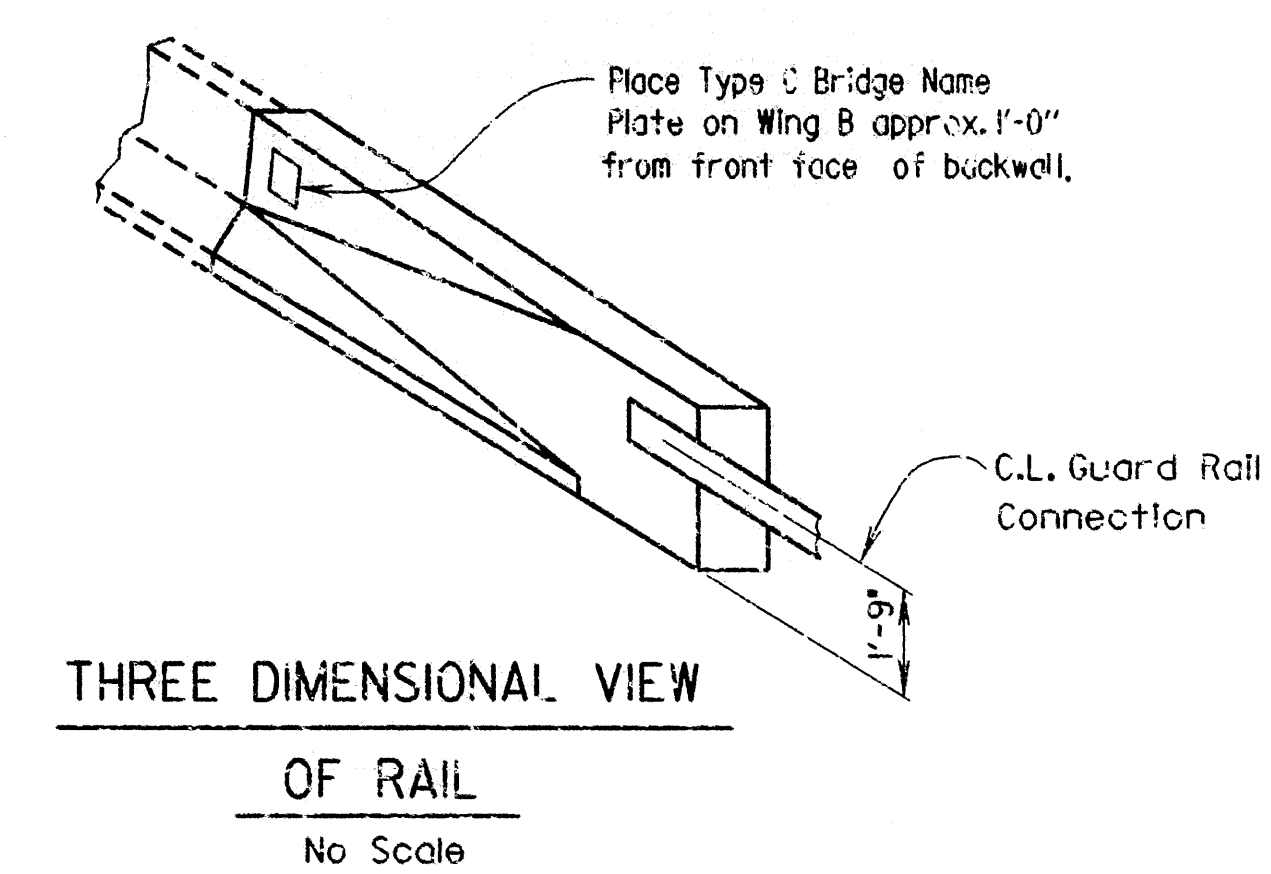
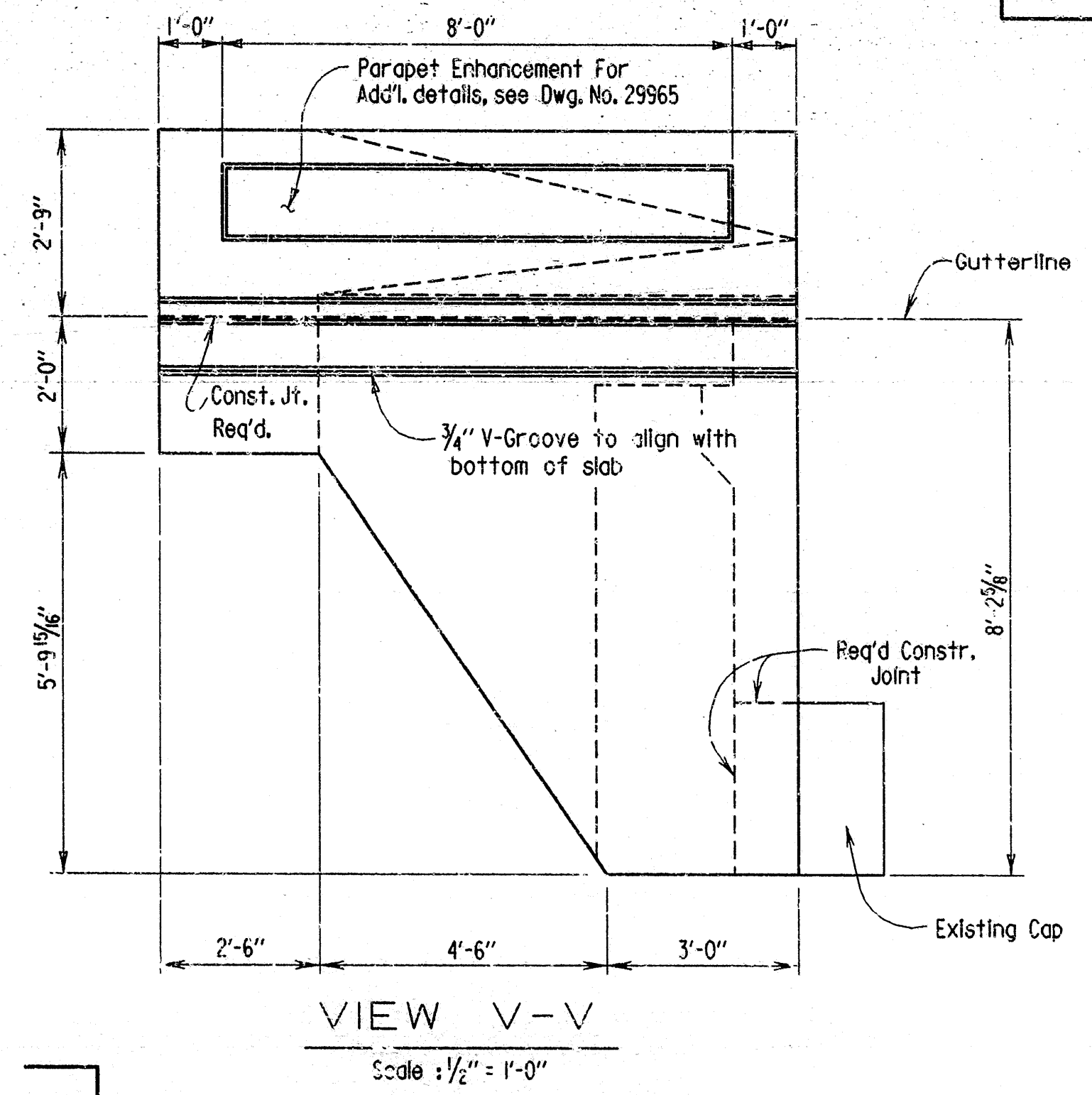
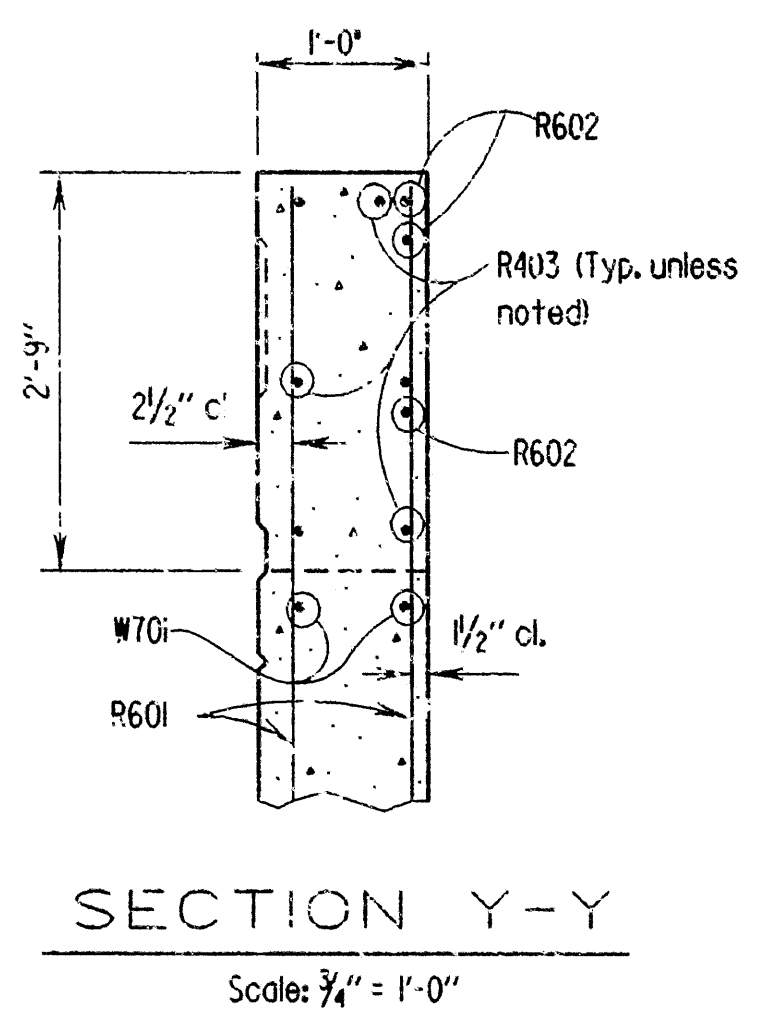
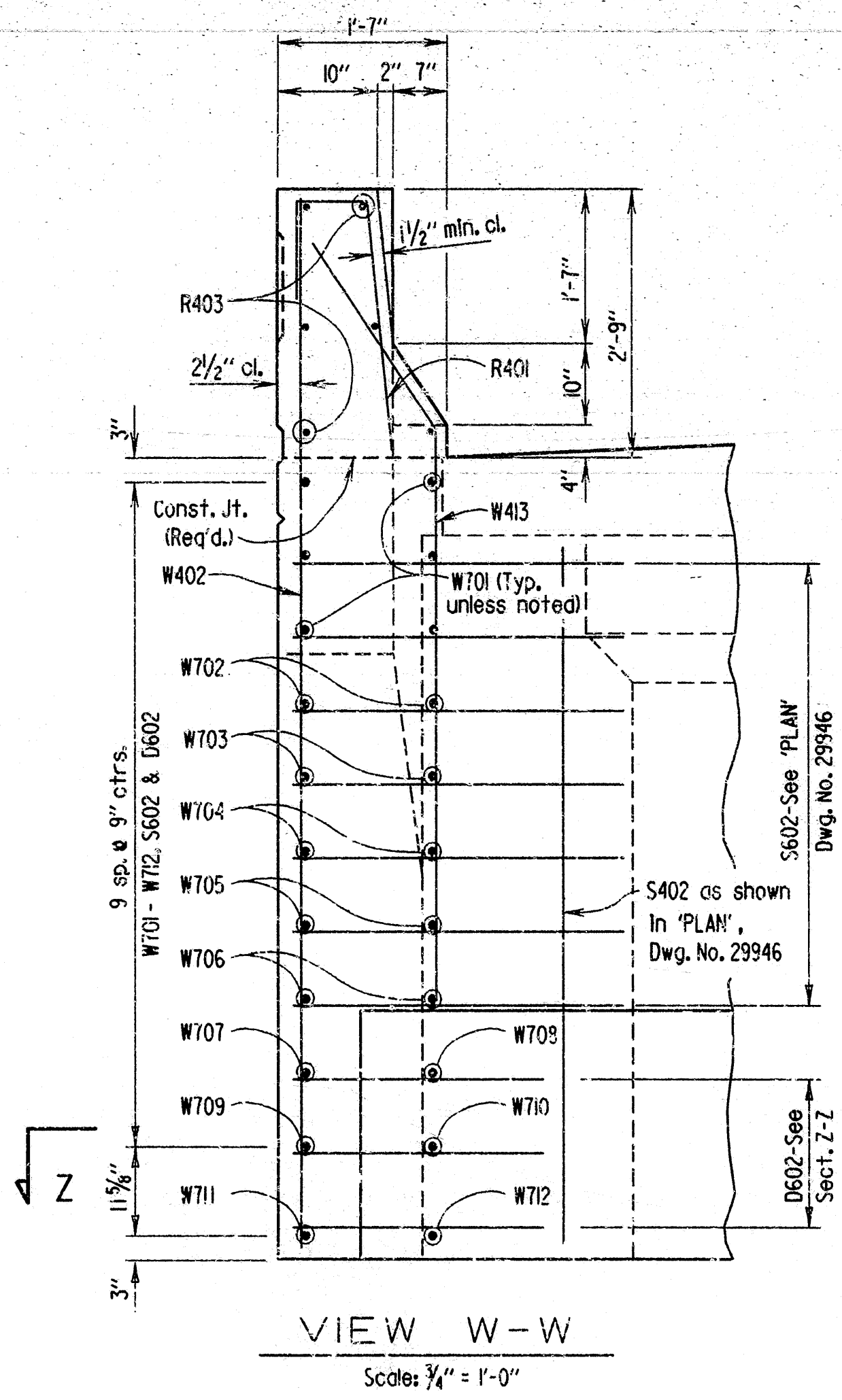
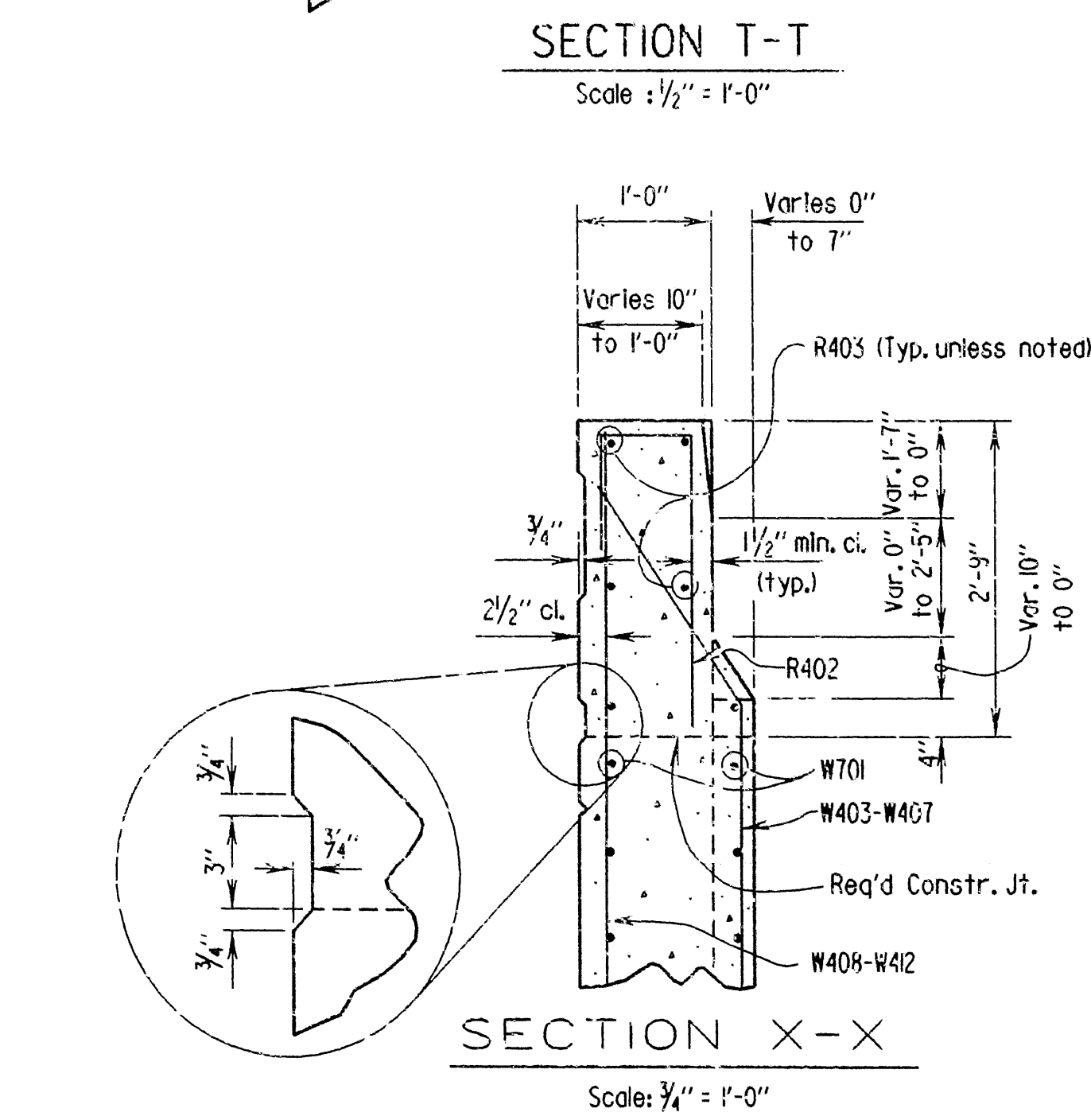
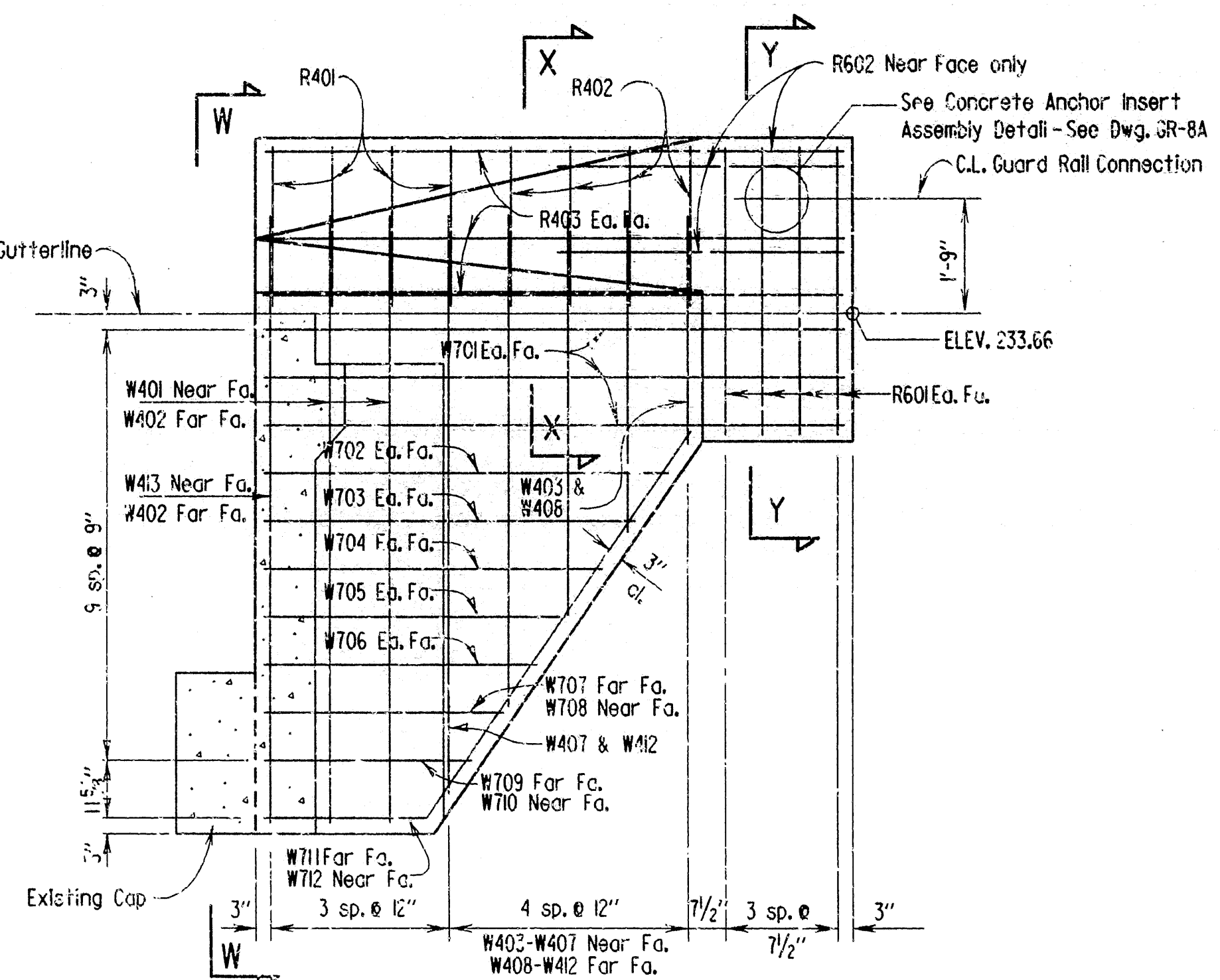
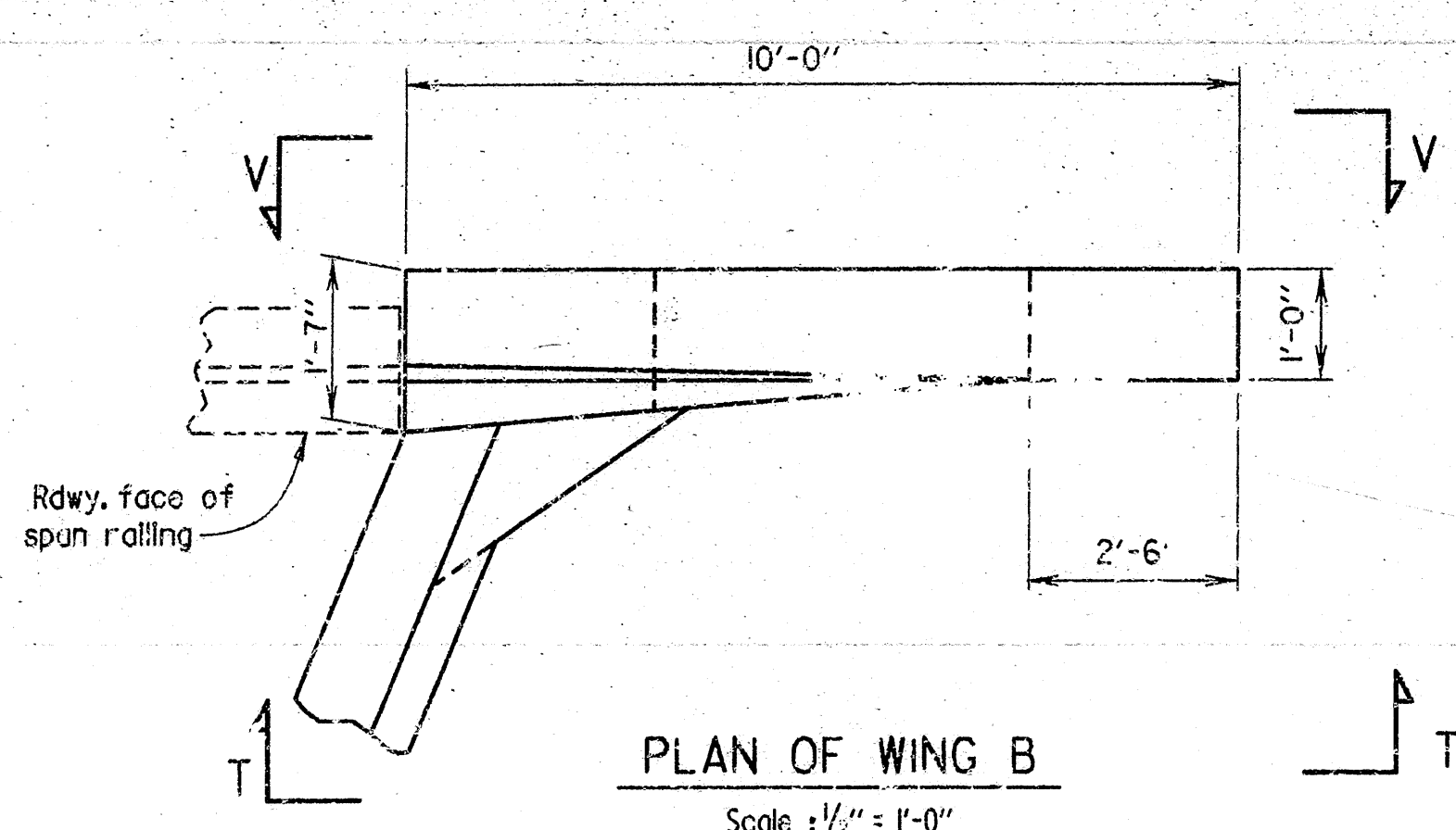
BENDING DIAGRAMS



\* Payment for furnishing and installing dowel bars will be made under the item 'Modification of Existing Bridge Structure (Bridge No. 3130).'

Note: For details of guard rail connections, see Dwg. No. GR-8 & GR-8A.

SHEET 4 OF 4  
DETAILS OF REMODELING BENT 1  
7TH STREET  
ROUTE SEC.  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: KDH DATE: 2 JUN 88  
CHECKED BY: C.J.F. DATE: 8-15-88  
DESIGNED BY: DATE:  
BRIDGE NO. 3130R DRAWING NO. 29949













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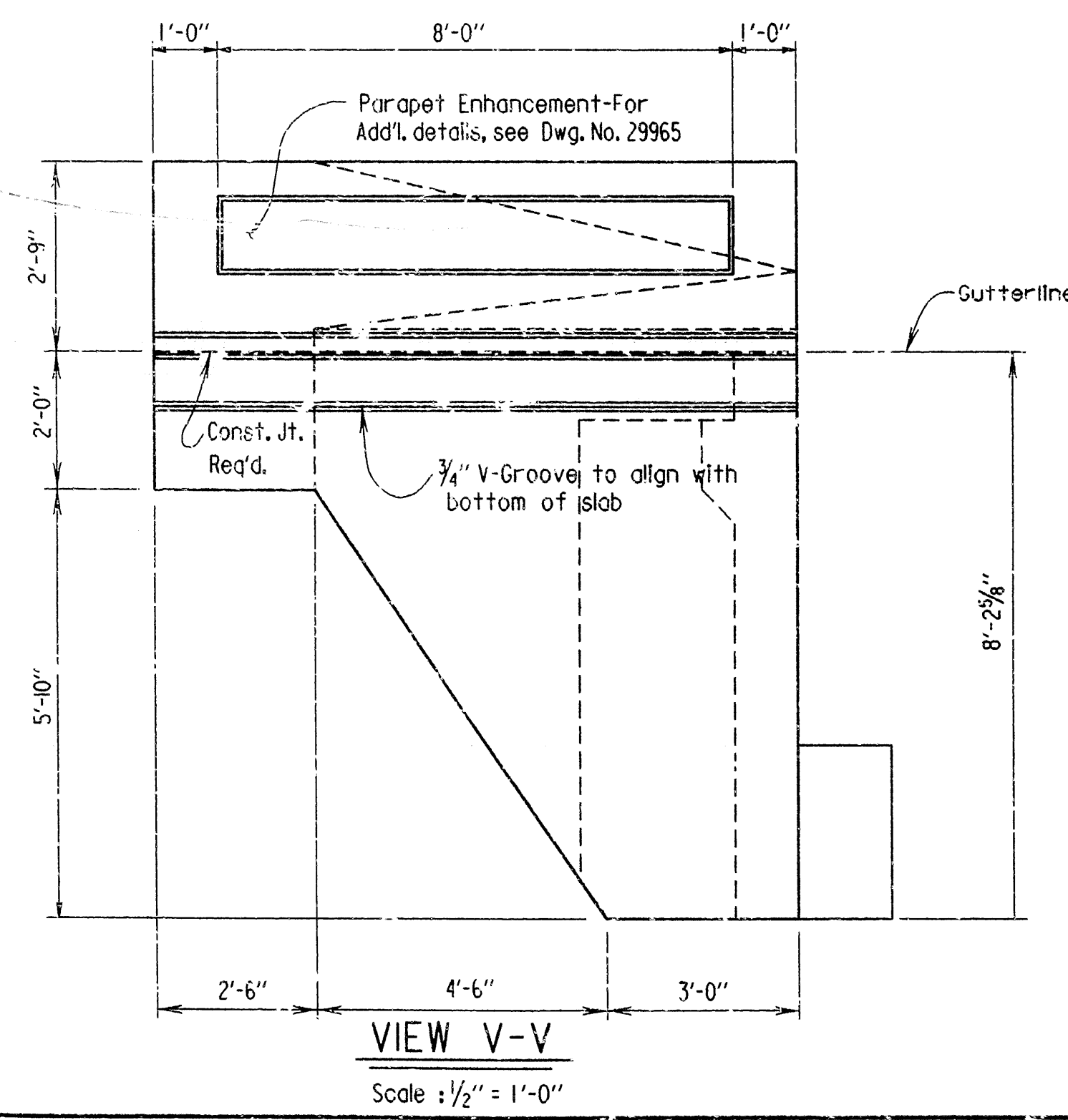
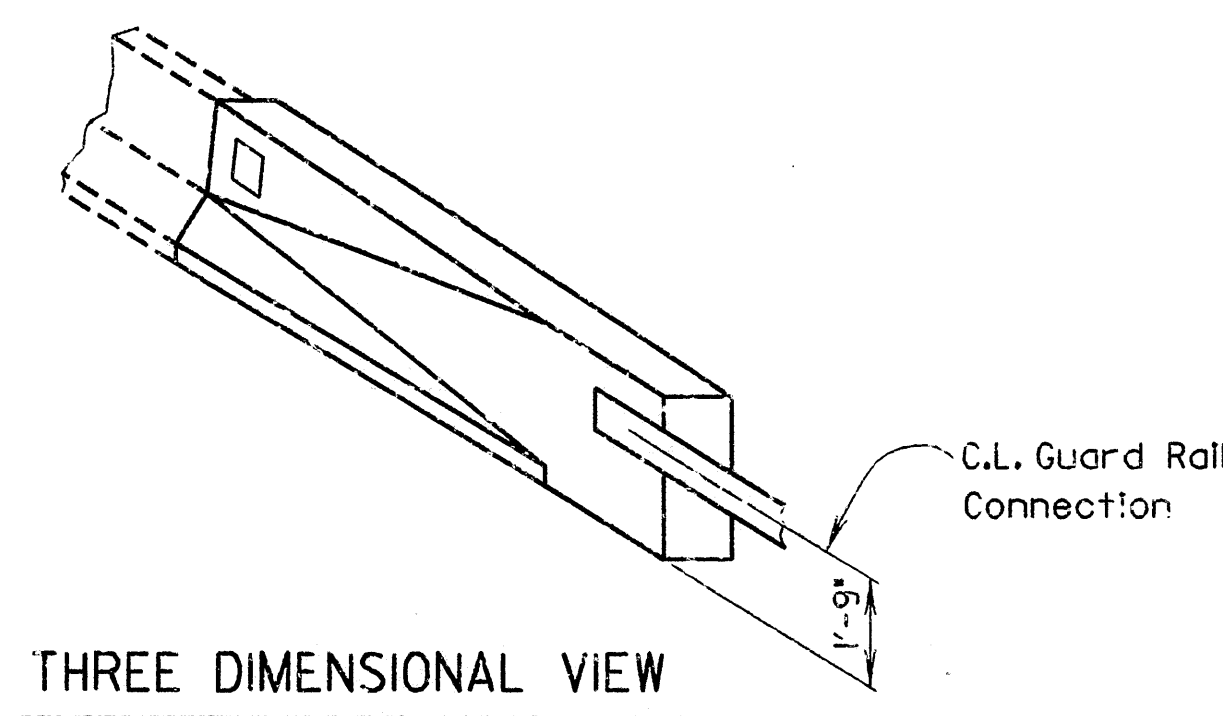
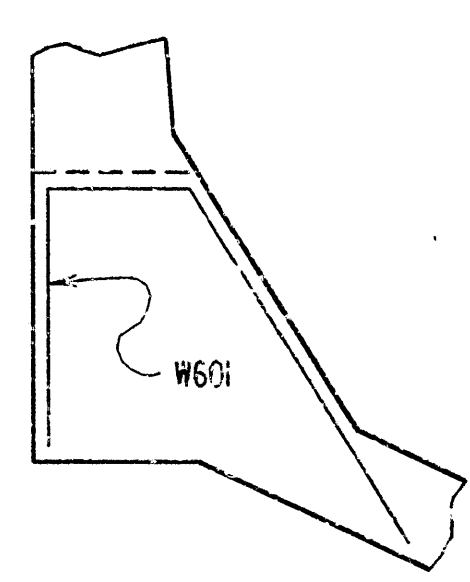
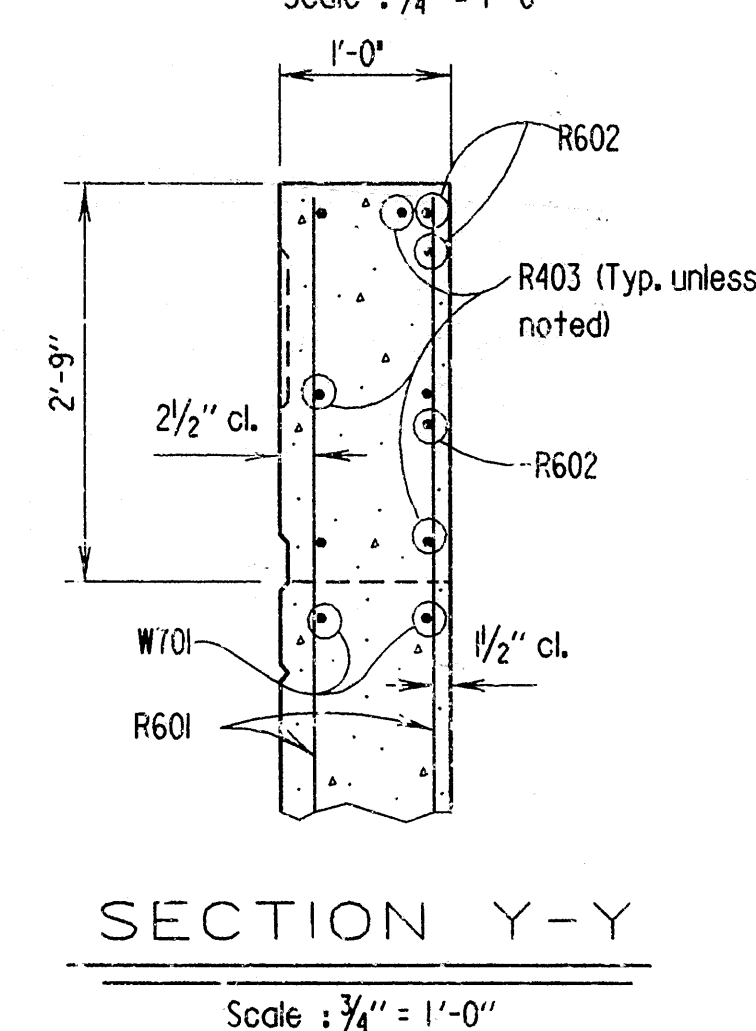
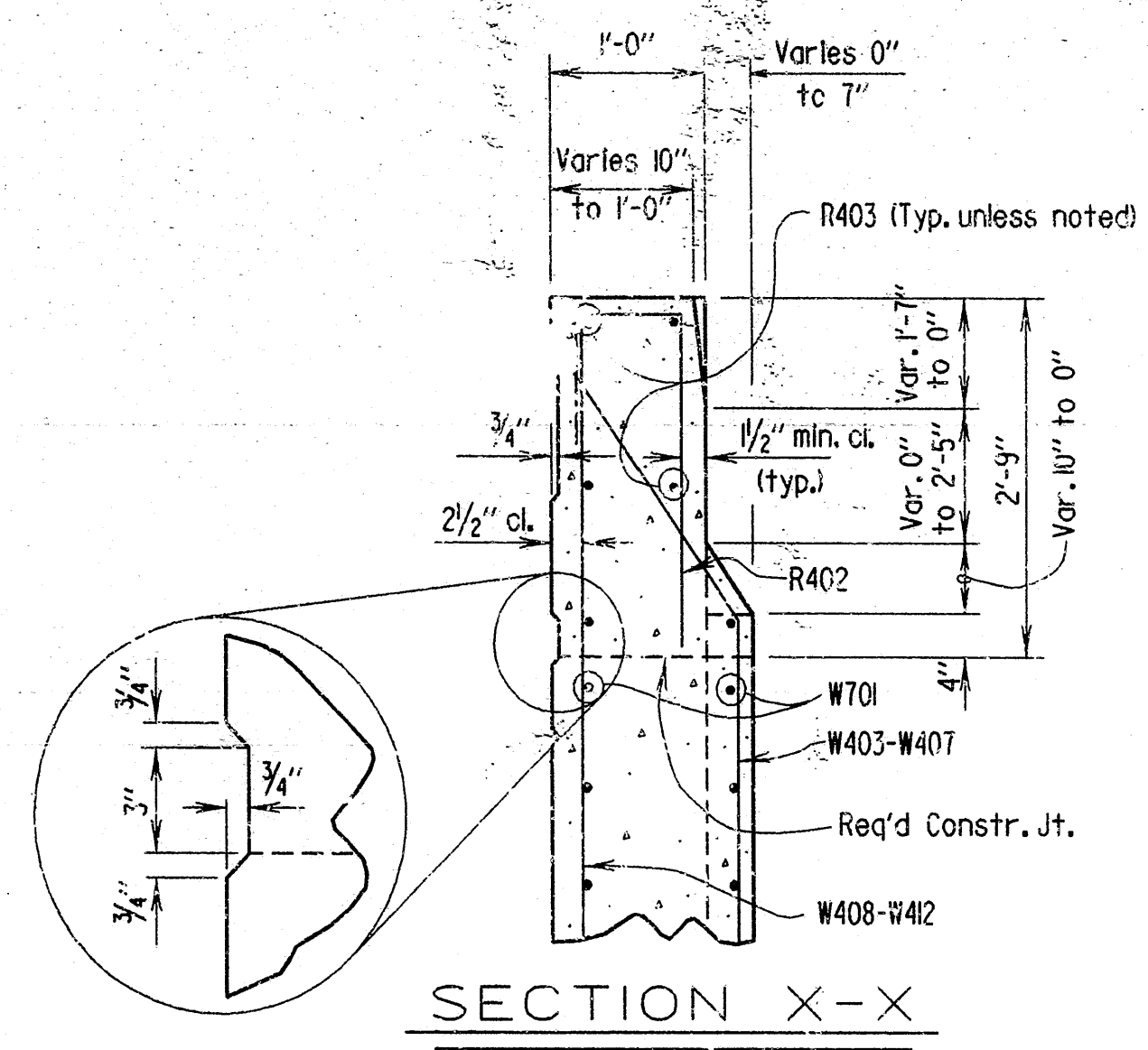
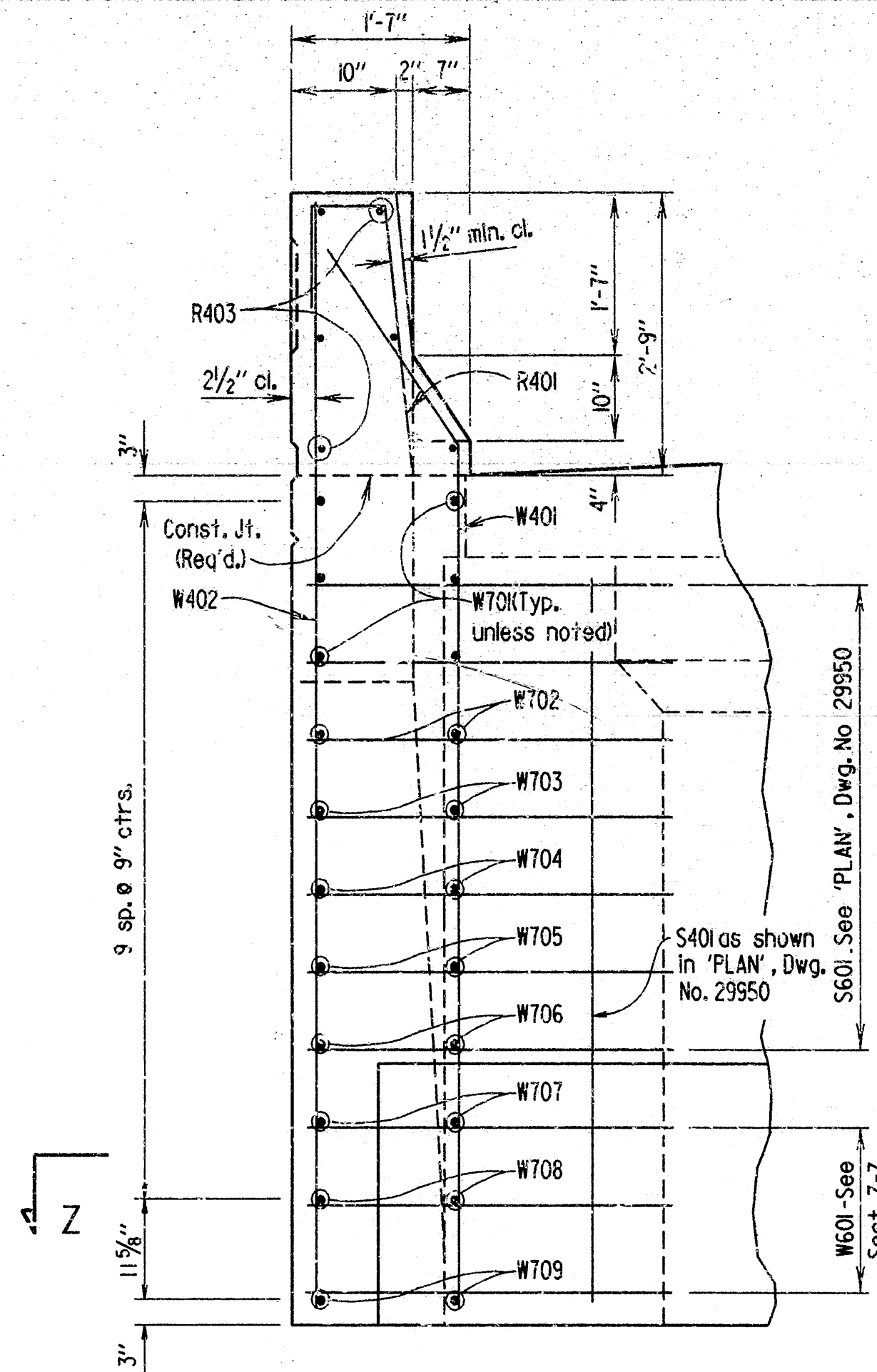
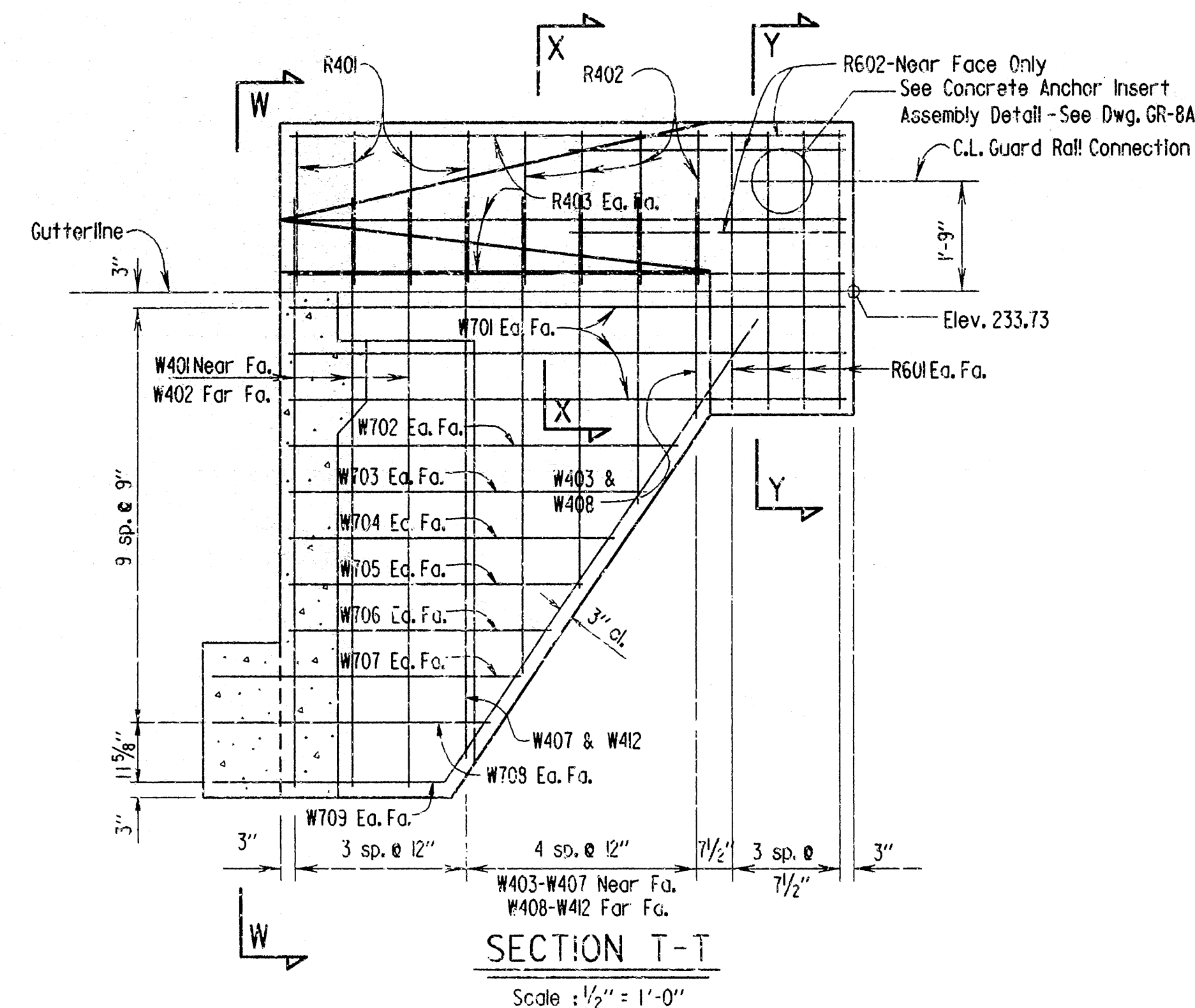
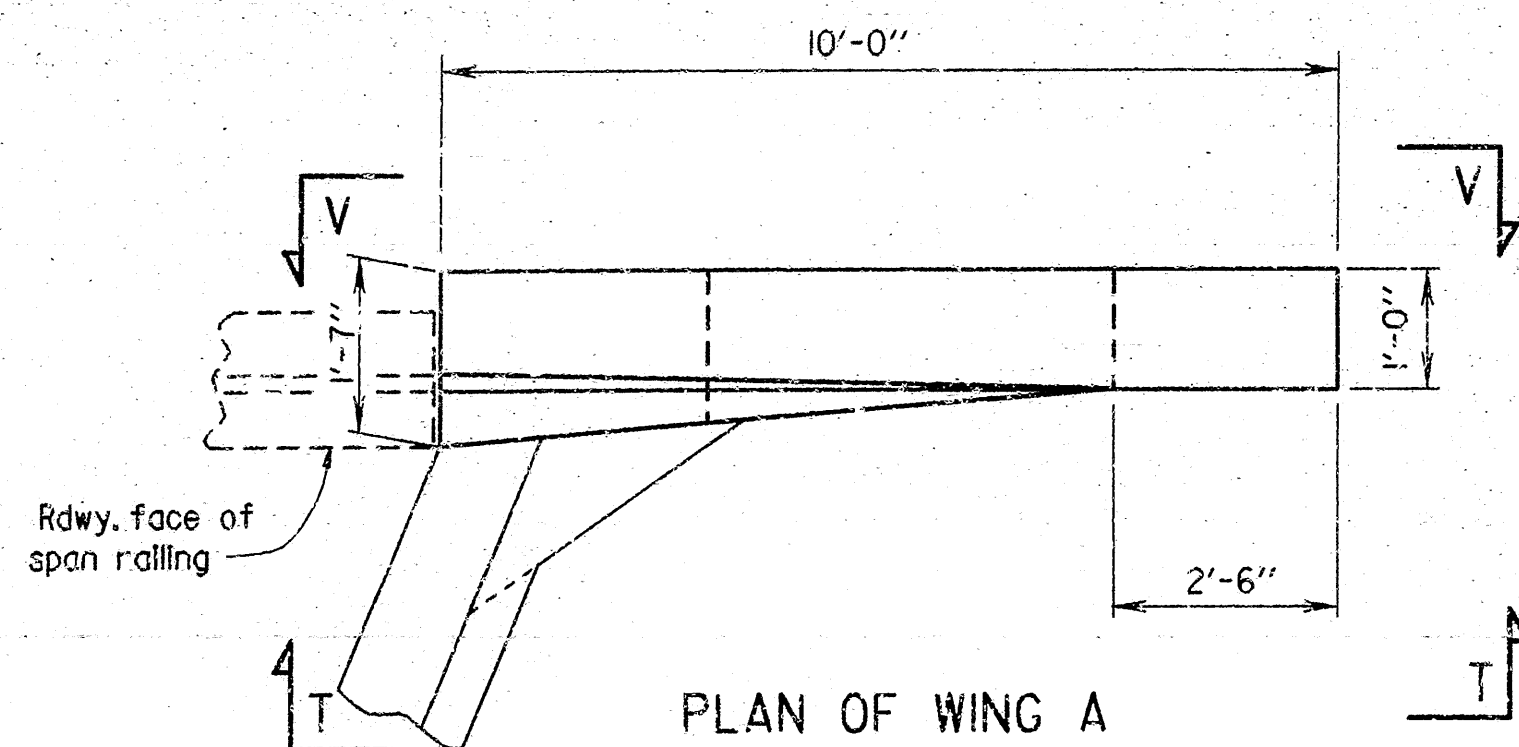
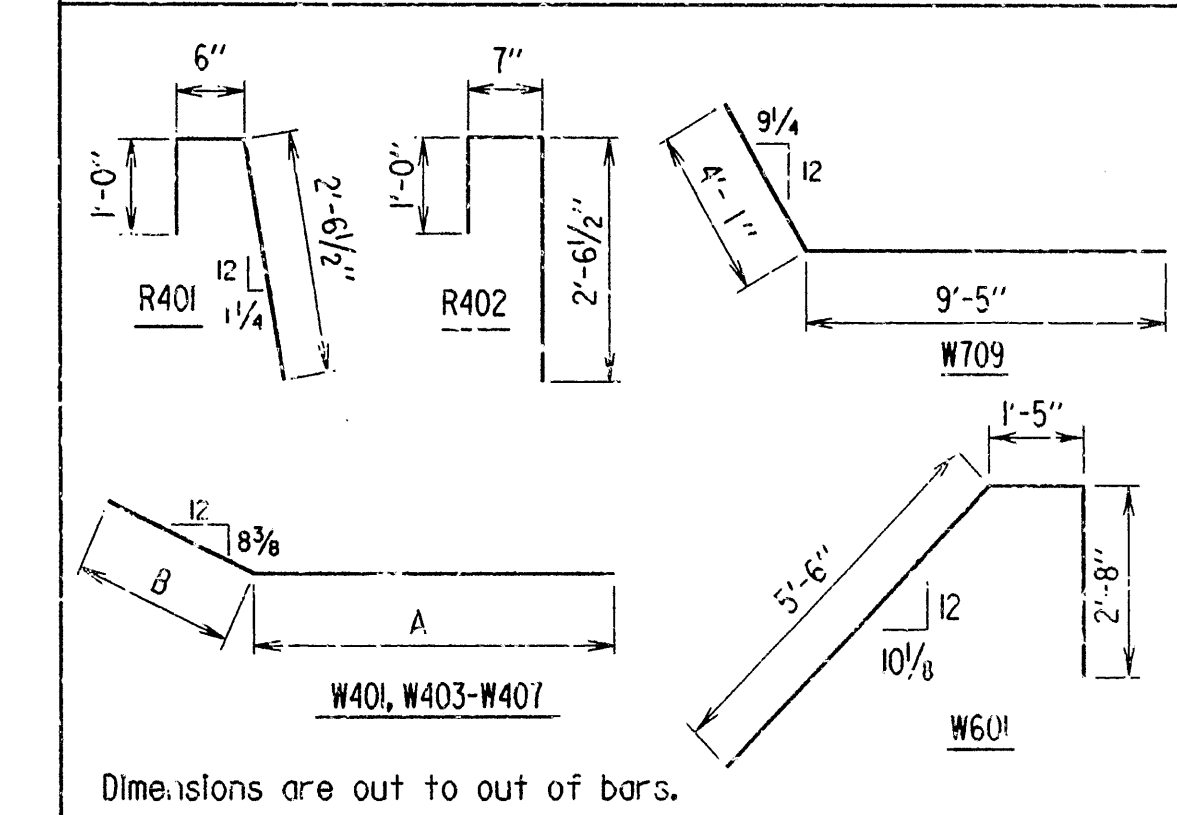
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		RI0008	76	235

① 3130R - BENT 7 - 29952

### BAR LIST - WING A

MARK	NO.	REQ'D.	LENGTH	A	B	PIN DIA.
R401	4		3'-11"			2"
R402	4		4'-0"			2"
R403	6		9'-8"			Str.
R601	8		4'-5"			Str.
R602	3		5'-0"			Str.
W401	3		9'-6"	8'-4"	1'-2"	2"
W402	3		10'-7"			Str.
W403-W407	1 of each		Var. 3'-6" to 8'-10"	Var. 2'-4" to 7'-8"	1'-2"	2"
W408-W412	1 of each		Var. 4'-7" to 10'-0"			Str.
W412	3		9'-3"			4 1/2"
W701	6		9'-8"			Str.
W702	2		6'-8"			Str.
W703	2		6'-2"			Str.
W704	2		5'-7"			Str.
W705	2		5'-0"			Str.
W706	2		4'-5"			Str.
W707	2		5'-2"			Str.
W708	2		4'-7"			Str.
W709	2		13'-4"			5 1/4"

### BENDING DIAGRAMS



Note: For details of guard rail connections, see Drwg. No. GR-8 & GR-8A.

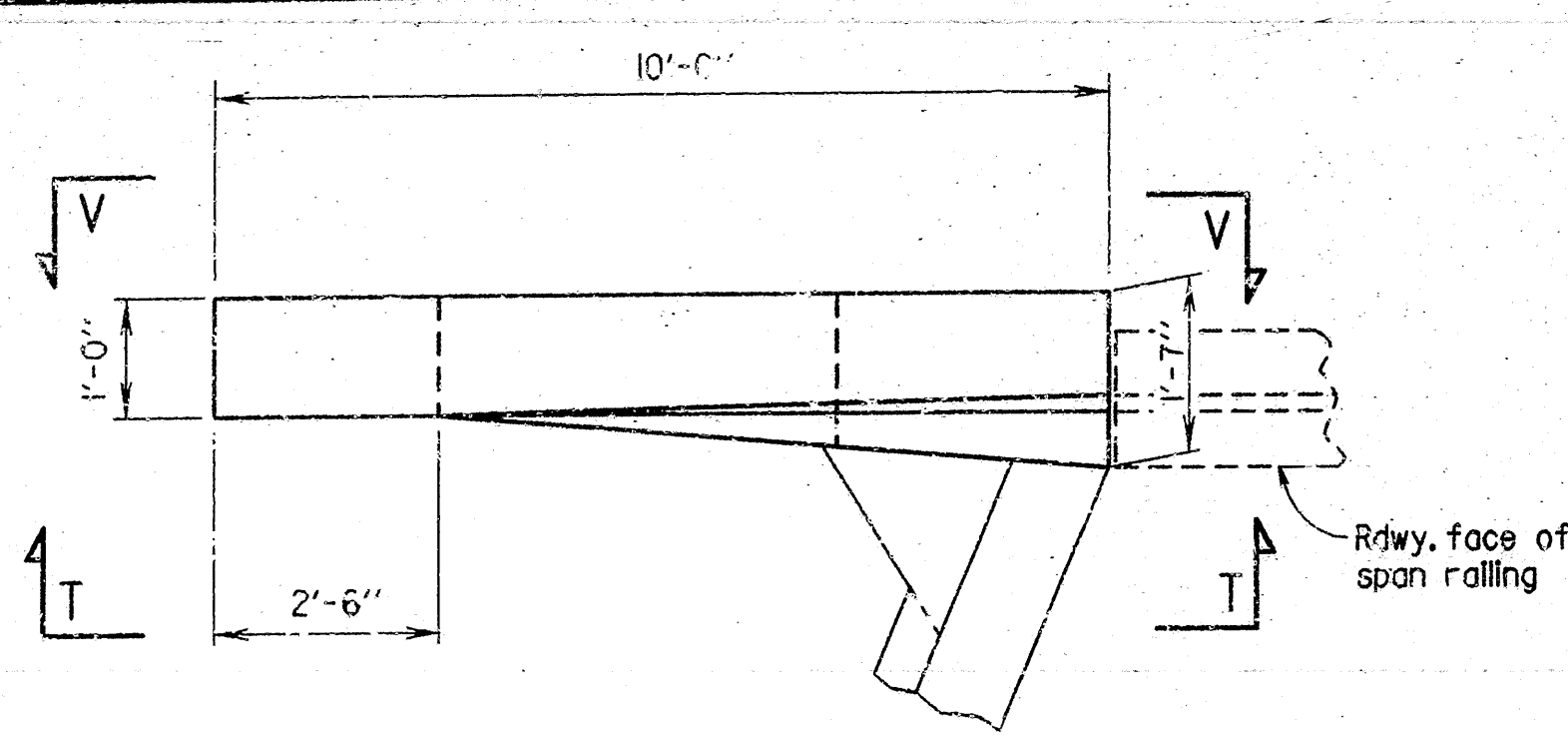
SHEET 3 OF 4  
 DETAILS OF REMODELING BENT NO. 7  
 7TH STREET  
 ROUTE SEC.  
 ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.

DRAWN BY: KUH DATE: 1 JUN 88  
 CHECKED BY: C J F DATE: 8-15-88 SCALE: AS NOTED  
 DESIGNED BY: DATE:  
 BRIDGE NO. 3130R DRAWING NO. 29952

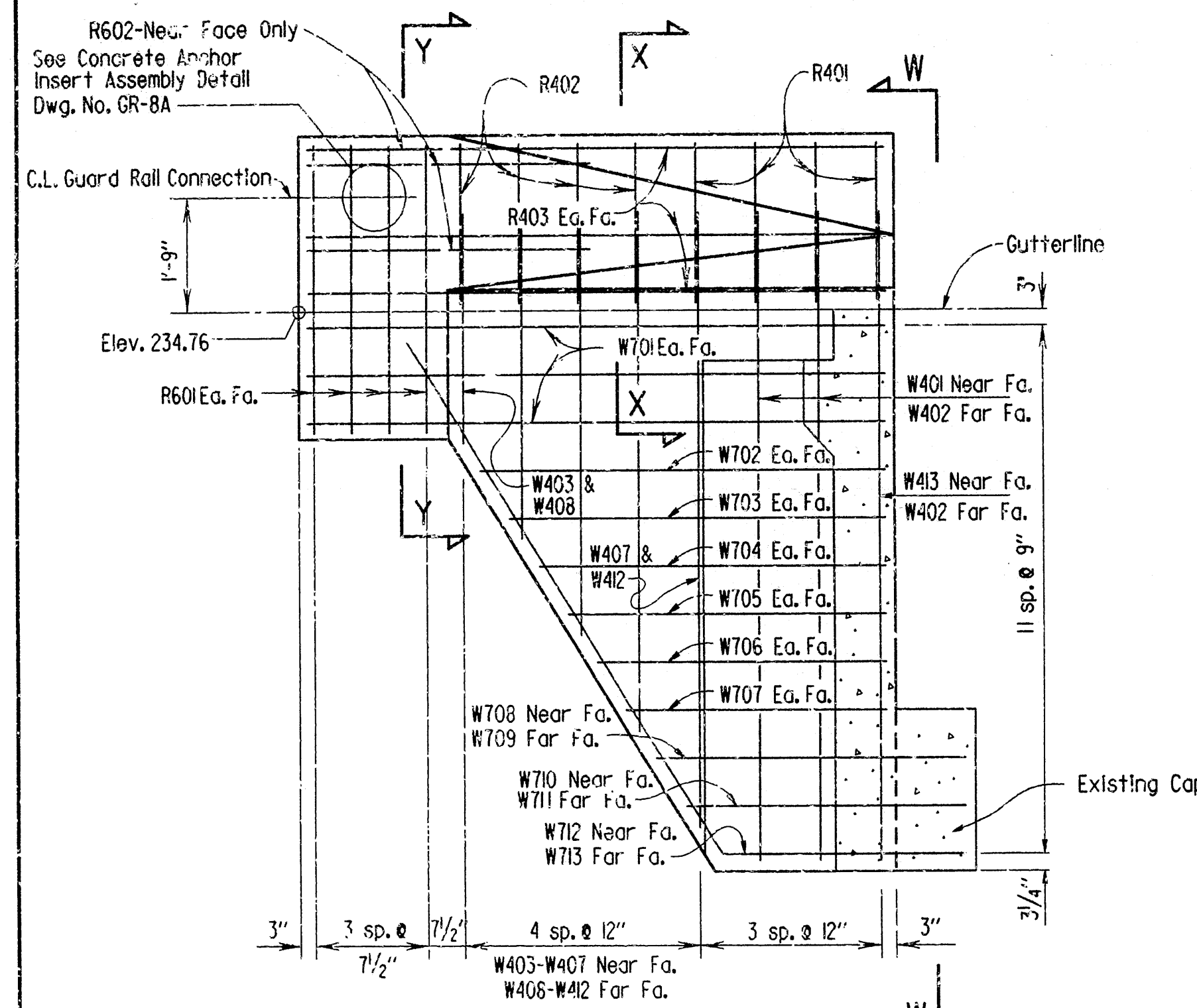
*Neal Pinkerton*  
 BRIDGE ENGINEER



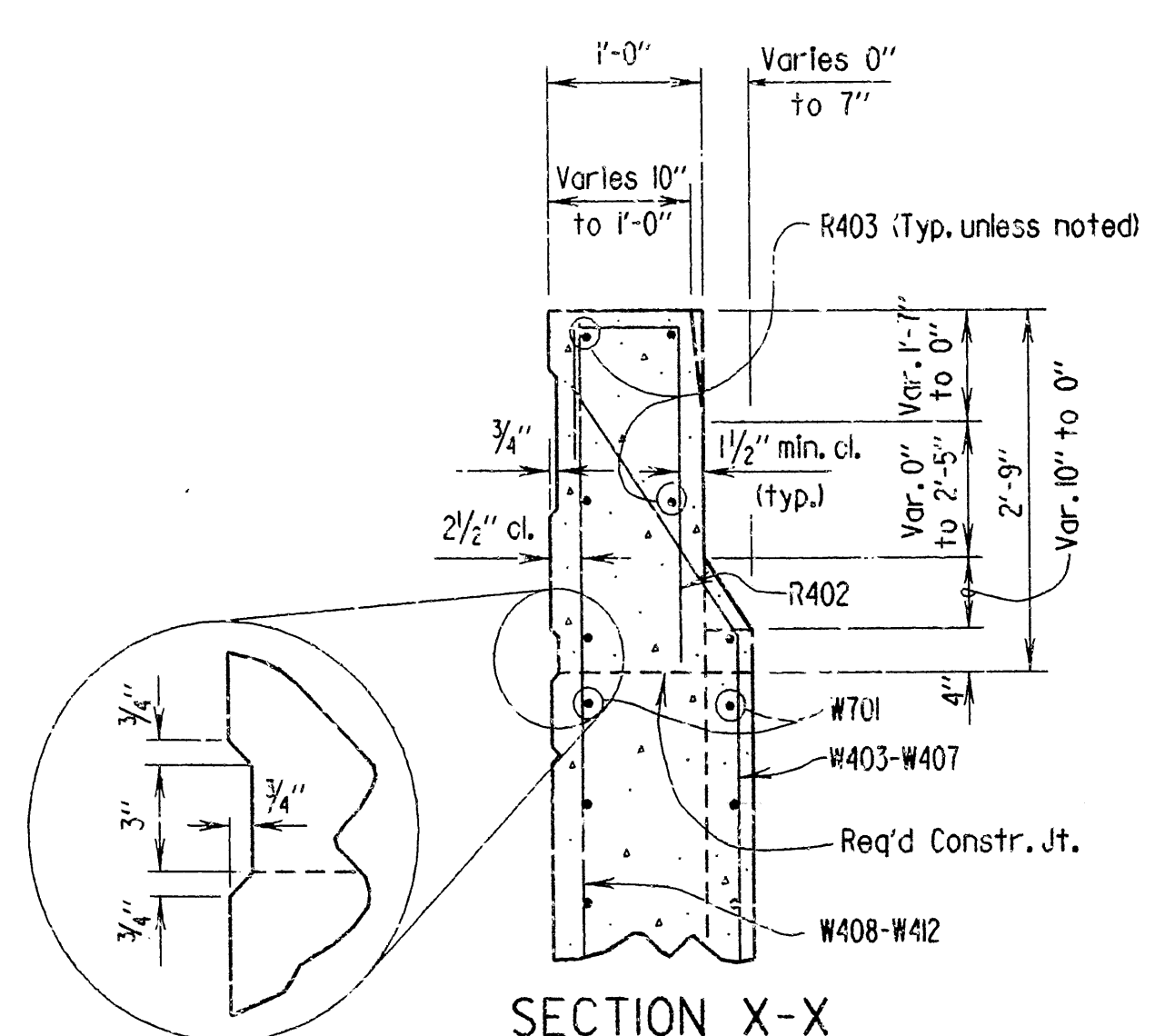
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		R10008	77	235
				① 3130R - BENT 7 - 29953				



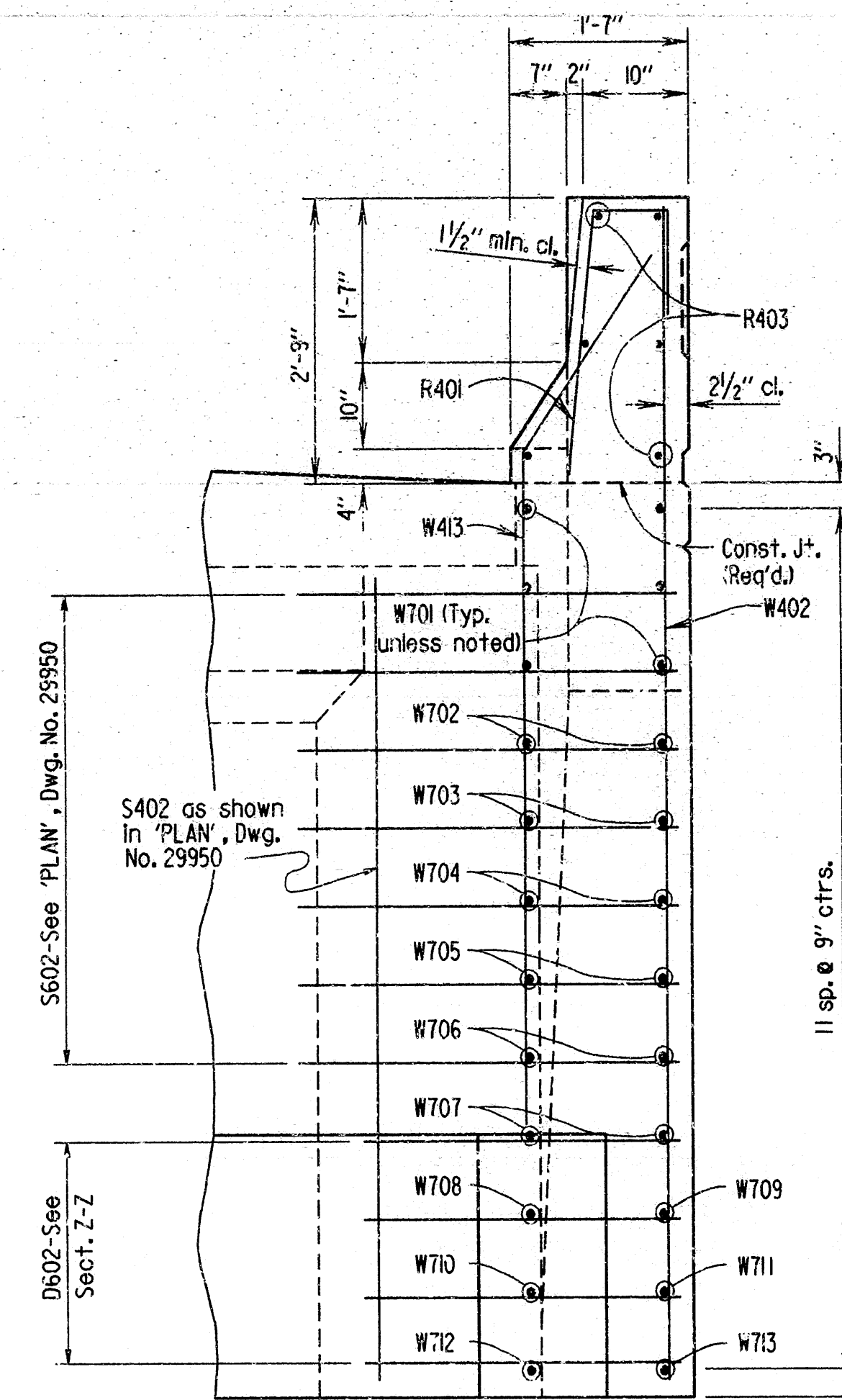
PLAN OF WING B  
Scale: 1/2" = 1'-0"



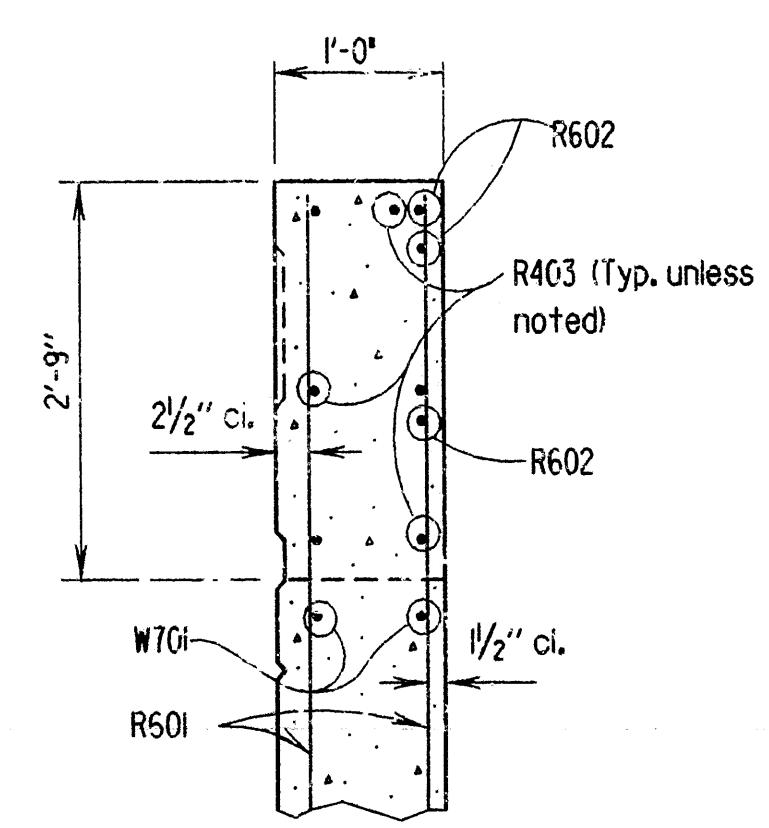
SECTION T-T  
Scale: 1/2" = 1'-0"



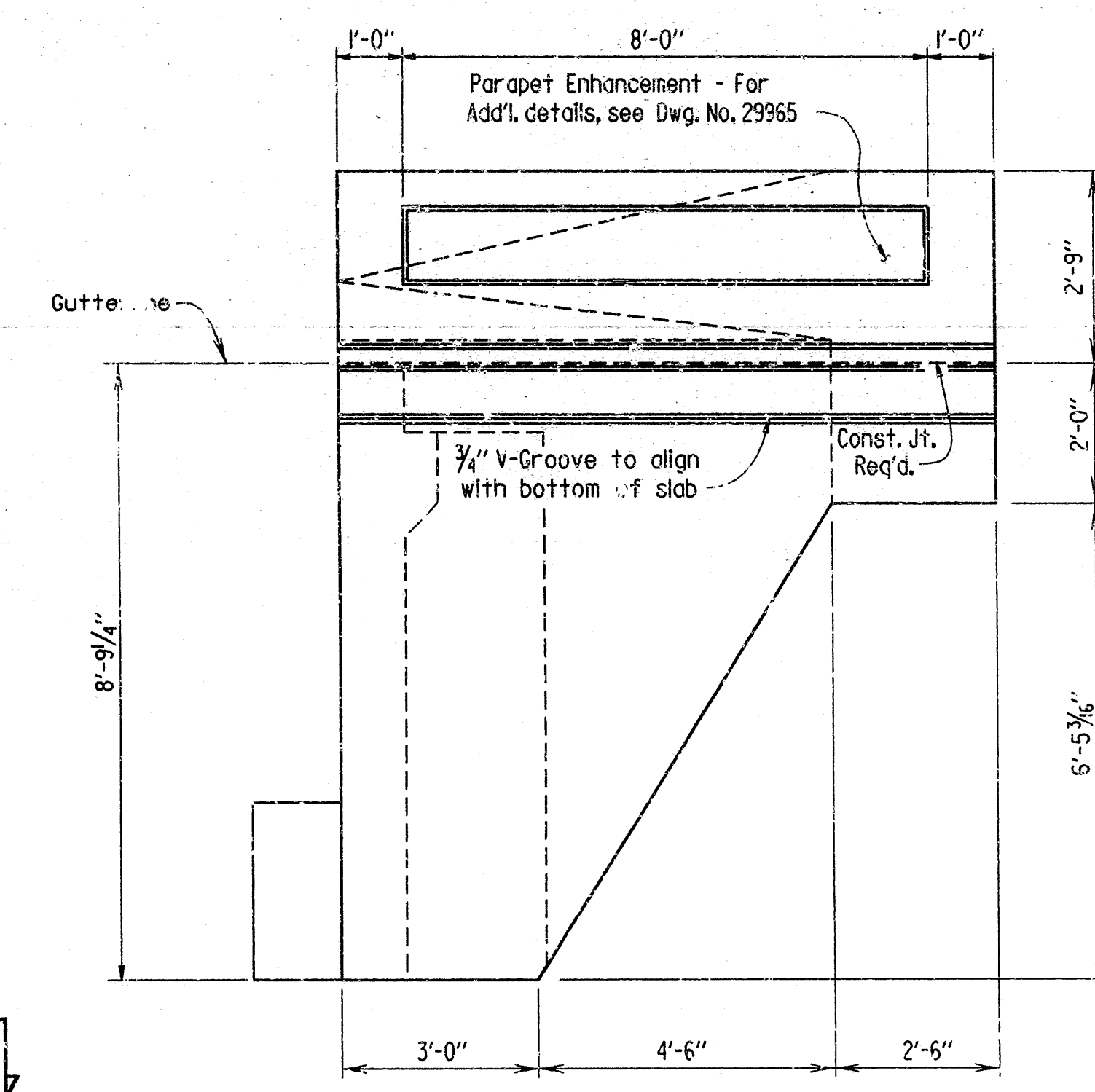
SECTION X-X  
Scale: 3/4" = 1'-0"



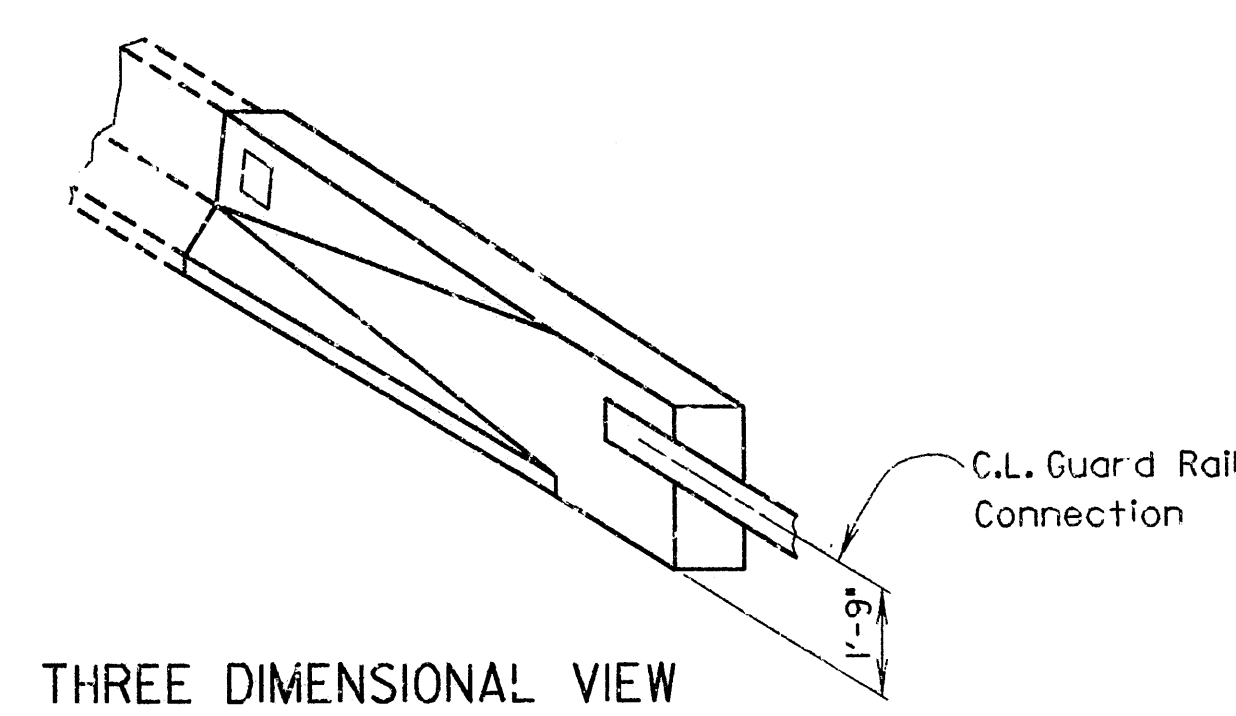
VIEW W-W  
Scale: 3/4" = 1'-0"



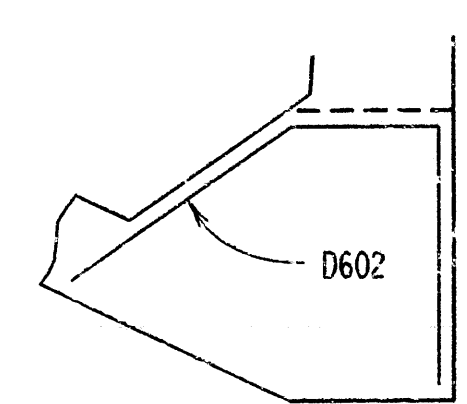
SECTION Y-Y  
Scale: 3/4" = 1'-0"



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



THREE DIMENSIONAL VIEW  
OF RAIL  
No Scale

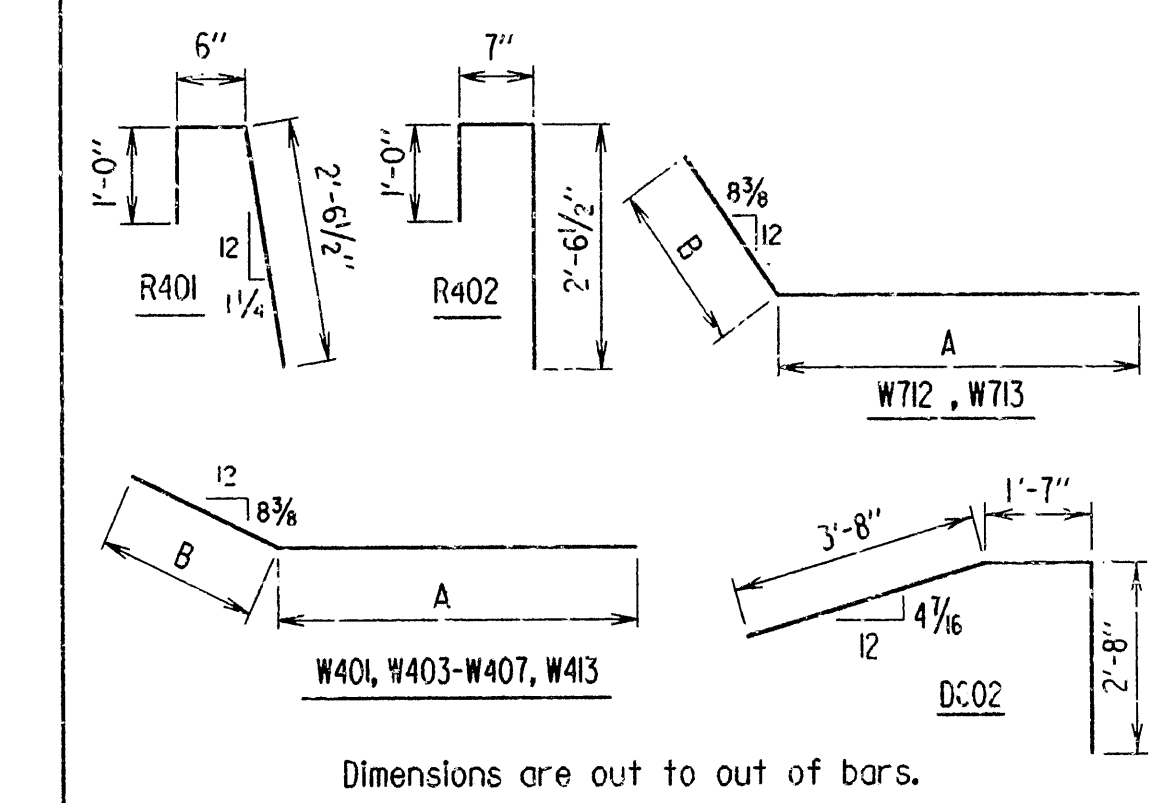


SECTION Z-Z  
Scale: 1/2" = 1'-0"

BAR LIST - WING B

MARK	NO.	REQ'D.	LENGTH	A	B	PIN DIA.
R401	4		3'-11"			2"
R402	4		4'-0"			2"
R403	6		9'-8"			Str.
R601	8		4'-5"			Str.
R602	3		5'-0"			Str.
W401	2		10'-1"	8'-11"	1'-2"	2"
W402	3		11'-2"			Str.
W403- W407	1 of each		Var. 3'-6" to 9'-3"	Var. 2'-4" to 8'-3"	1'-2"	2"
W408- W412	1 of each		Var. 4'-7" to 10'-6"			Str.
W413	1		7'-8"	6'-6"	1'-2"	2"
D602	4		7'-9"			4 1/2"
W701	6		9'-8"			Str.
W702	2		6'-9"			Str.
W703	2		6'-3"			Str.
W704	2		5'-9"			Str.
W705	2		5'-2"			Str.
W706	2		4'-8"			Str.
W707	2		4'-2"			Str.
W708	1		3'-11"			Str.
W709	1		4'-11"			Str.
W710	1		3'-5"			Str.
W711	1		4'-5"			Str.
W712	1		12'-11"	5'-11"	3'-2"	5 1/4"
W713	1		13'-9"	9'-11"	4'-0"	5 1/4"

BENDING DIAGRAMS



\* Payment for furnishing and installing dowel bars will be made under the item 'Modification of Existing Bridge Structure (Bridge No. 3130).'

Note: For details of guard rail connections, see Dwg. No. GR-8 & GR-8A.

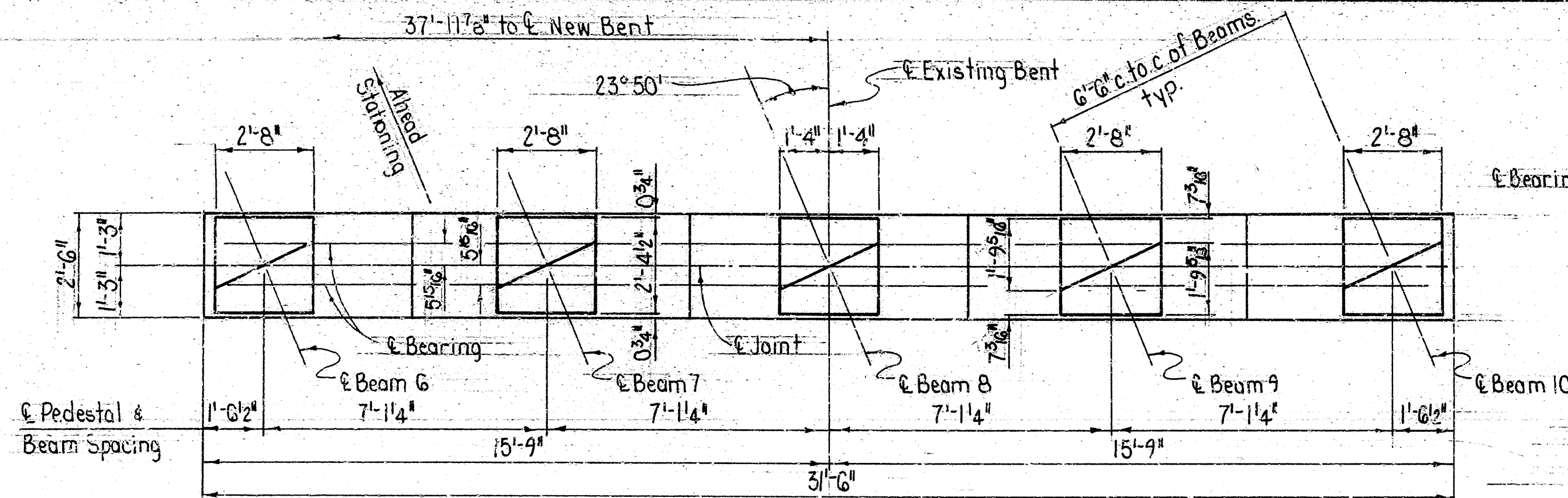
SHEET 4 OF 4  
DETAILS OF REMODELING BENT 7  
7TH STREET  
ROUTE 88  
ARIZONA STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: 15 JUN 88  
CHECKED BY: C.J.F. DATE: 8 JUL 88  
DESIGNED BY: DATE:  
BRIDGE NO. 3130R DRAWING NO. 29953

BRIDGE ENGINEER

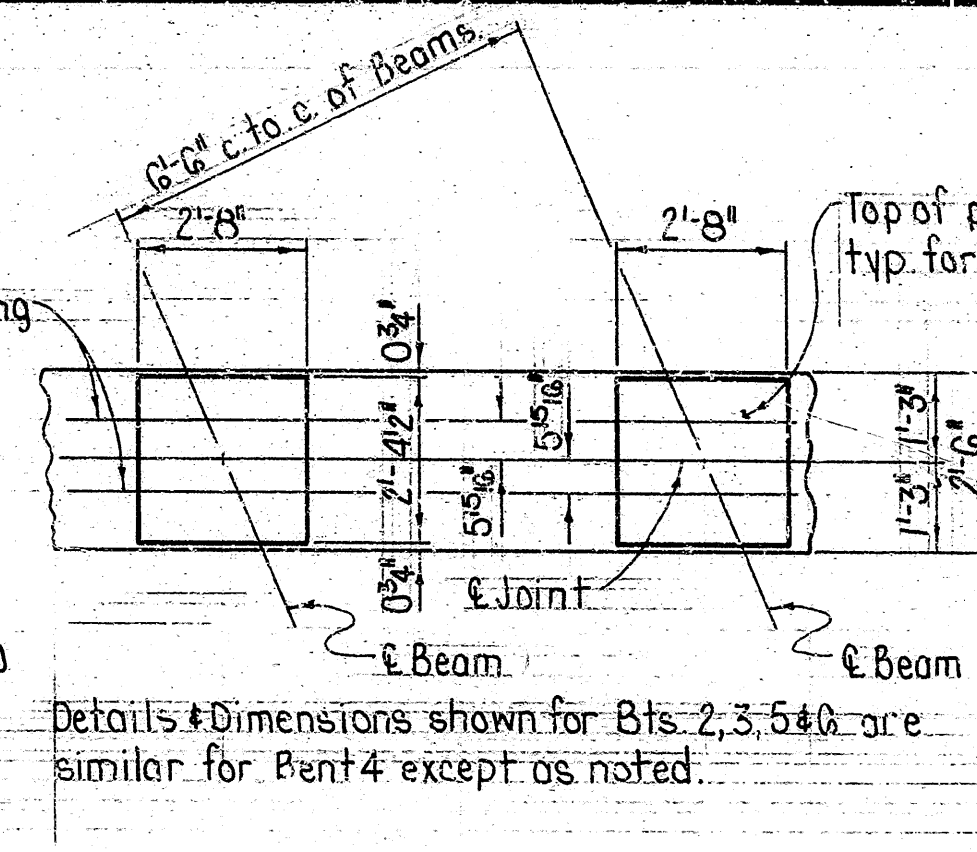


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		R10008	78	235
				3130R- BTS. 2B-6B - 29954				



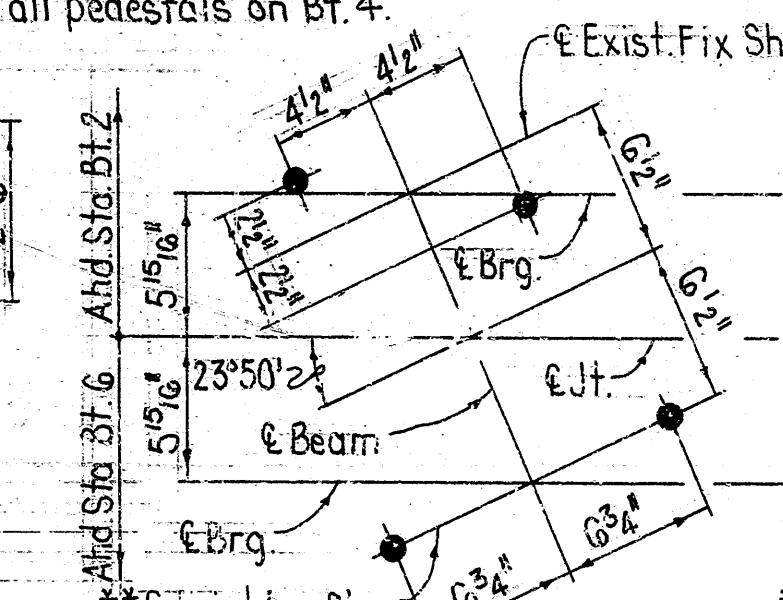
PLAN - BENTS 2B, 3B, 5B & 6B

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

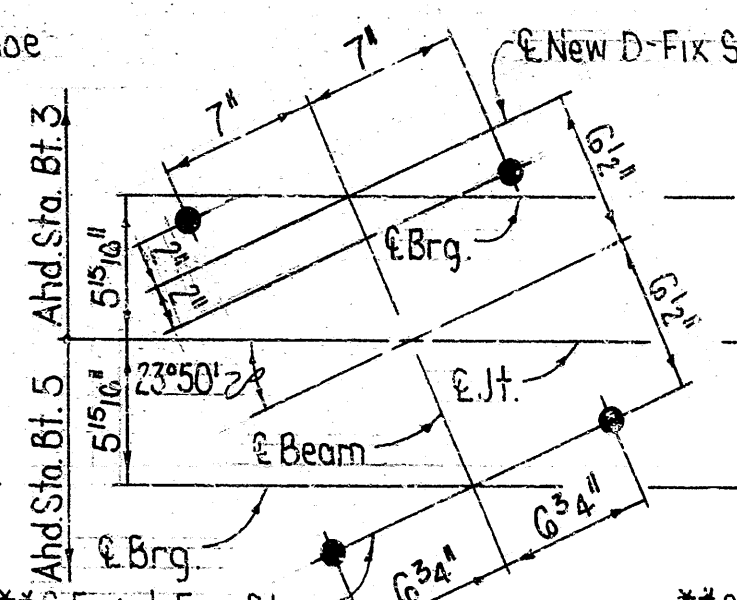


PARTIAL PLAN - BENT 4B

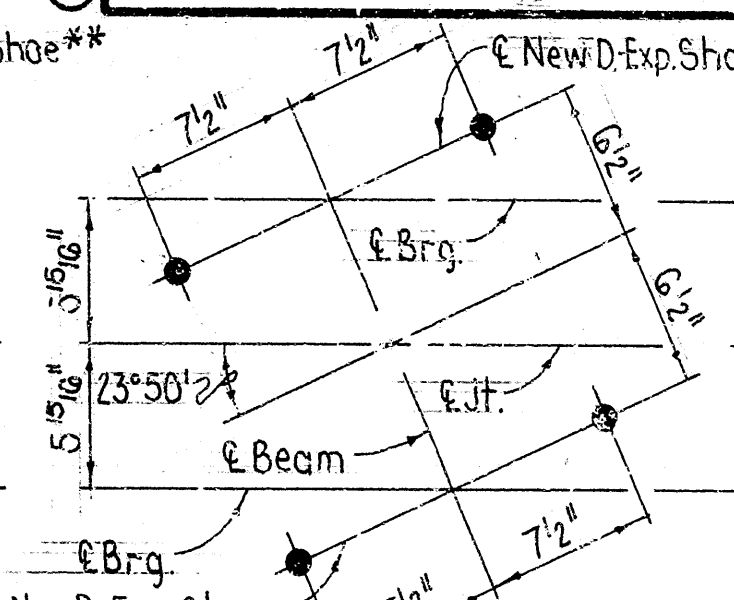
Scale: 3/8"=1'-0"



BENTS 2B & 6B



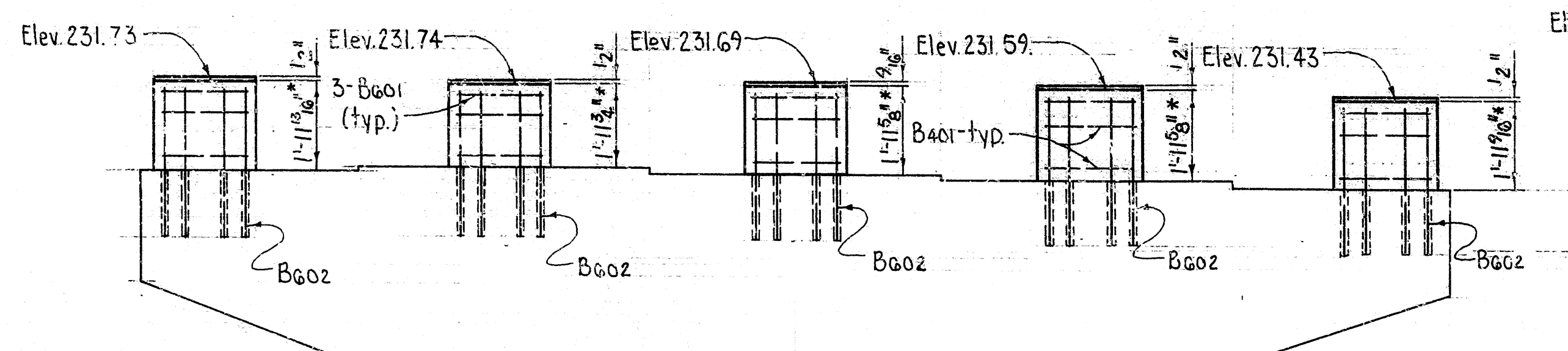
BENTS 3B & 5B



BENT 4B

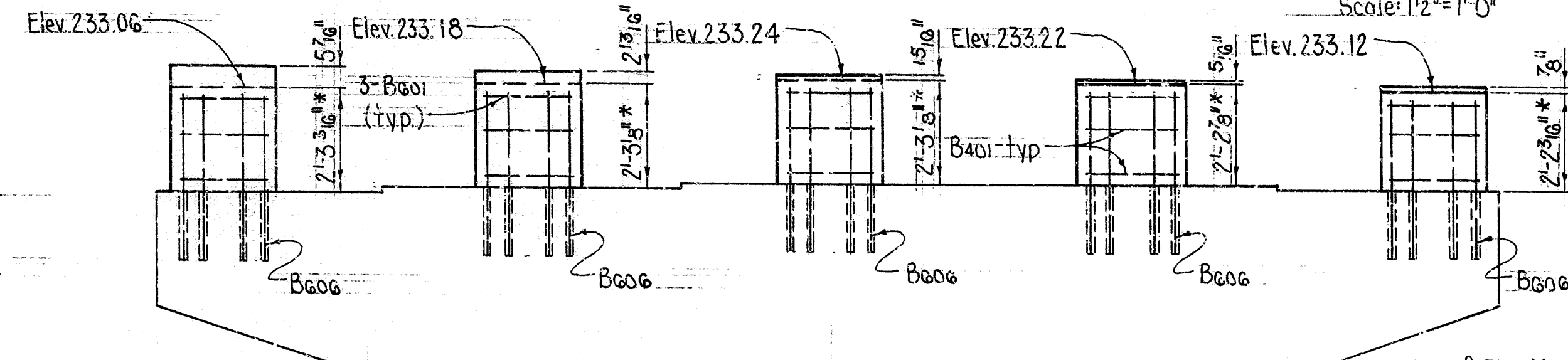
TYP. ANCHOR BOLT LAYOUTS

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



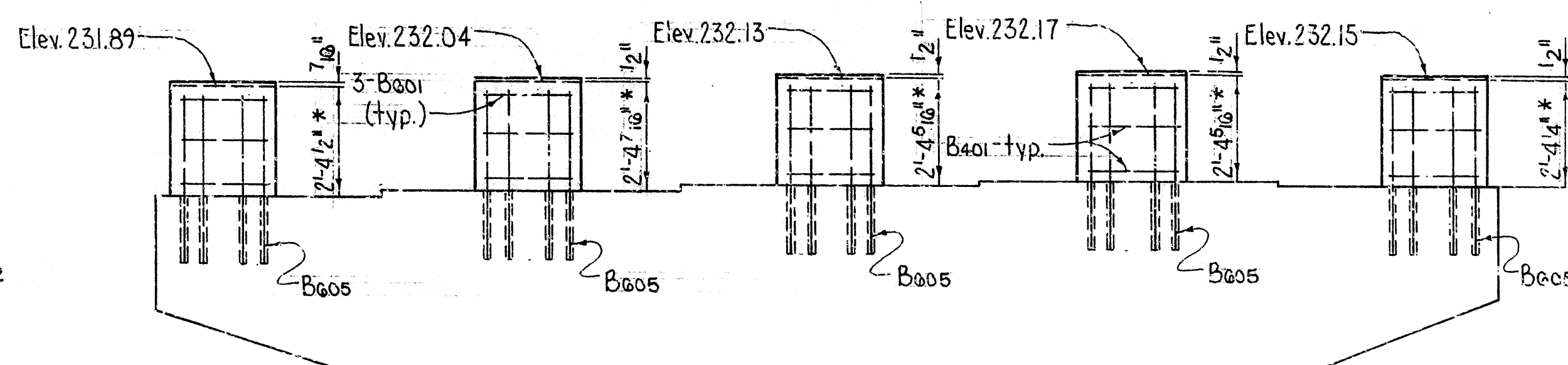
ELEVATION - BENT 2B

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



ELEVATION - BENT 5B

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



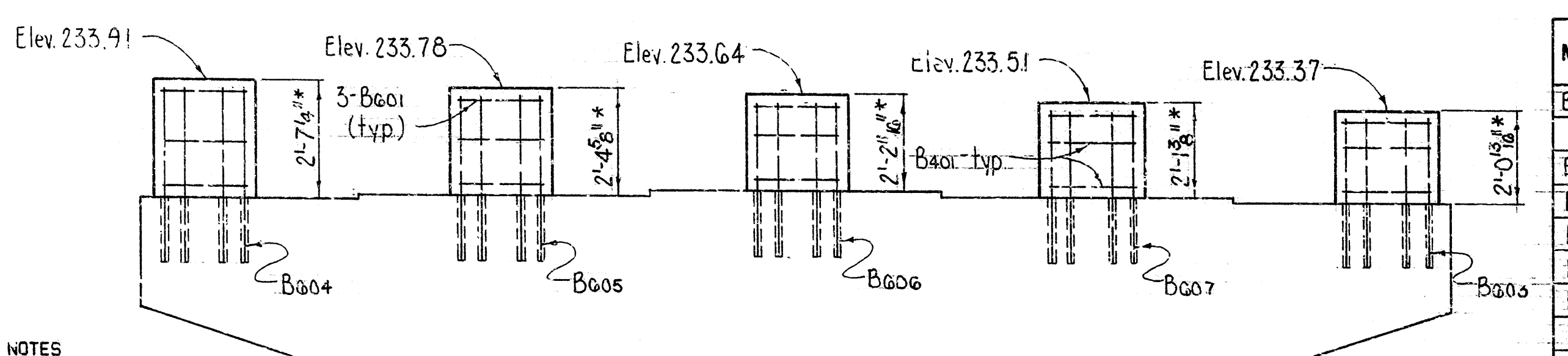
ELEVATION - BENT 6B

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

BAR LIST - PER BENT

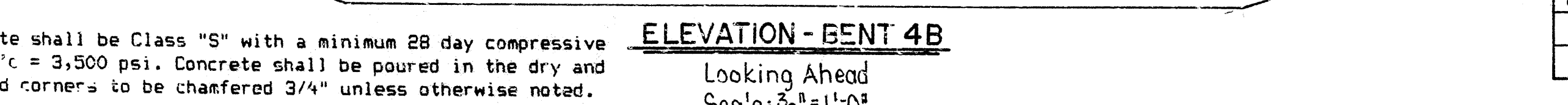
MARK	NUMBER REQUIRED					LENGTH	'A'	P.D.	BENDING DIAGRAMS
	BT. 2B	BT. 3B	BT. 4B	BT. 5B	BT. 6B				
B401	10	10	10	10	10	8'-1"	-	2"	
B601	15	15	15	15	15	2'-4"	-	Str.	
B602	20	4	-	-	-	7'-9"	3'-4"	4 1/2"	
B603	-	16	4	-	-	7'-11"	3'-5"	4 1/2"	
B604	-	-	4	-	-	9'-1"	4'-0"	4 1/2"	
B605	-	-	4	-	20	8'-7"	3'-9"	4 1/2"	
B606	-	-	4	20	-	8'-3"	3'-7"	4 1/2"	
B607	-	-	4	-	-	8'-1"	3'-6"	4 1/2"	

Dimensions are out to out of bars.



ELEVATION - BENT 3B

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



ELEVATION - BENT 4B

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

GENERAL 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.).

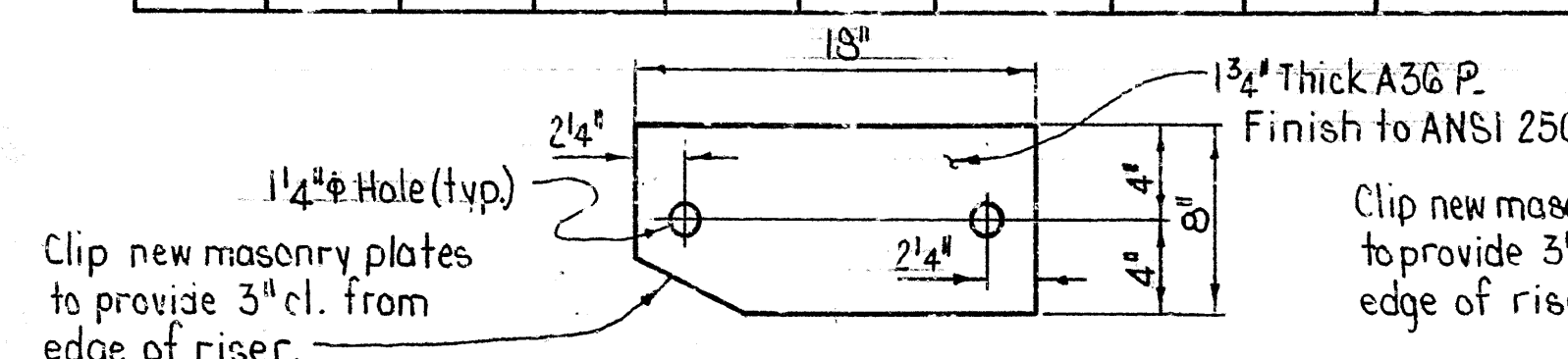
All drilling and grouting for doweled bars to be paid for as part of the item "Modification of Existing Bridge Structure (Bridge No. 3130)."

New anchor bolts to be provided for all shoes. For Typ. Anchor Bolt Details, See Dwg. No. 29966.

For additional notes, see Dwg. Nos. 29965 & 29966.

\* These dimensions shall be verified in the field. The Elevations shown are to the low beam seat of riser.

\*\*Existing expansion shoes shall have new masonry plates. See details this drawing. For details of new fixed and expansion "D" shoes, See Dwg. No. 29966. New 1/8" thick bearing pads are to be used for all shoes.

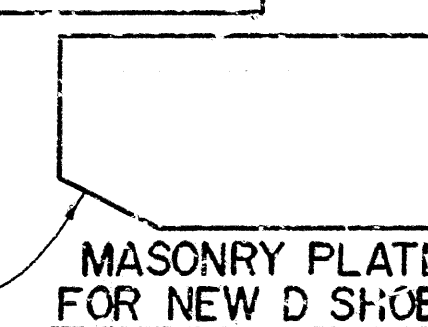


MASONRY PLATE FOR EXIST. EXP. SHOE

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

Clip new masonry plates to provide 3" cl. from edge of riser.

Clip new masonry plates to provide 3" cl. from edge of riser.



MASONRY PLATE FOR NEW D SHOES

No Scale

BRIDGE ENGINEER

DETAILS OF REMODELING EXISTING BENTS  
7TH STREET

ROUTE SEC.  
ARIZONA STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: 22 APR 88  
CHECKED BY: C.J.F. DATE: 8-15-88  
DESIGNED BY: D.H.P. DATE: 2-16-88

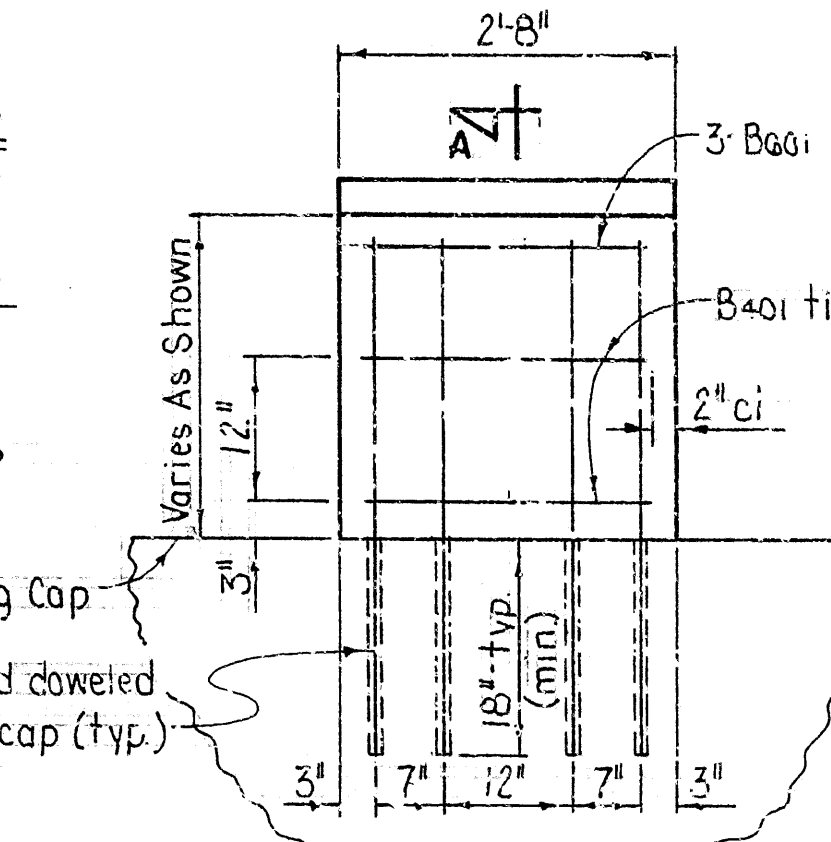
BRIDGE NO. 3130R

DRAWING NO. 29954

Note: Spread B601 bars to miss Anchor Bolts.

SECTION A-A

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



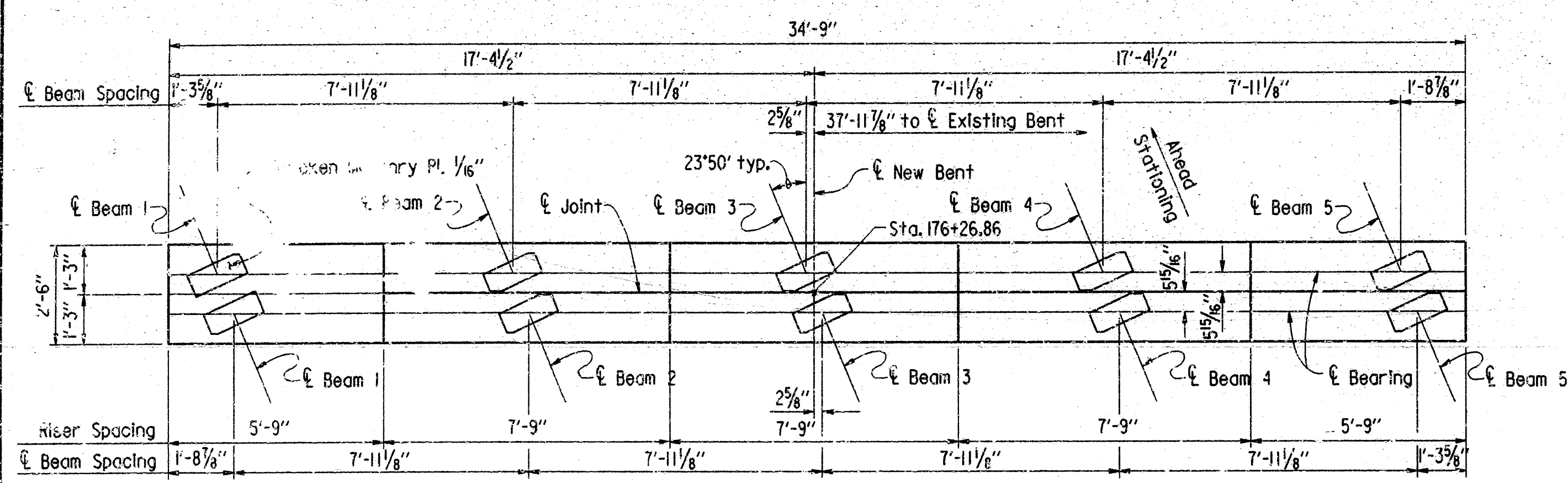
TYP. RISER DETAIL

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

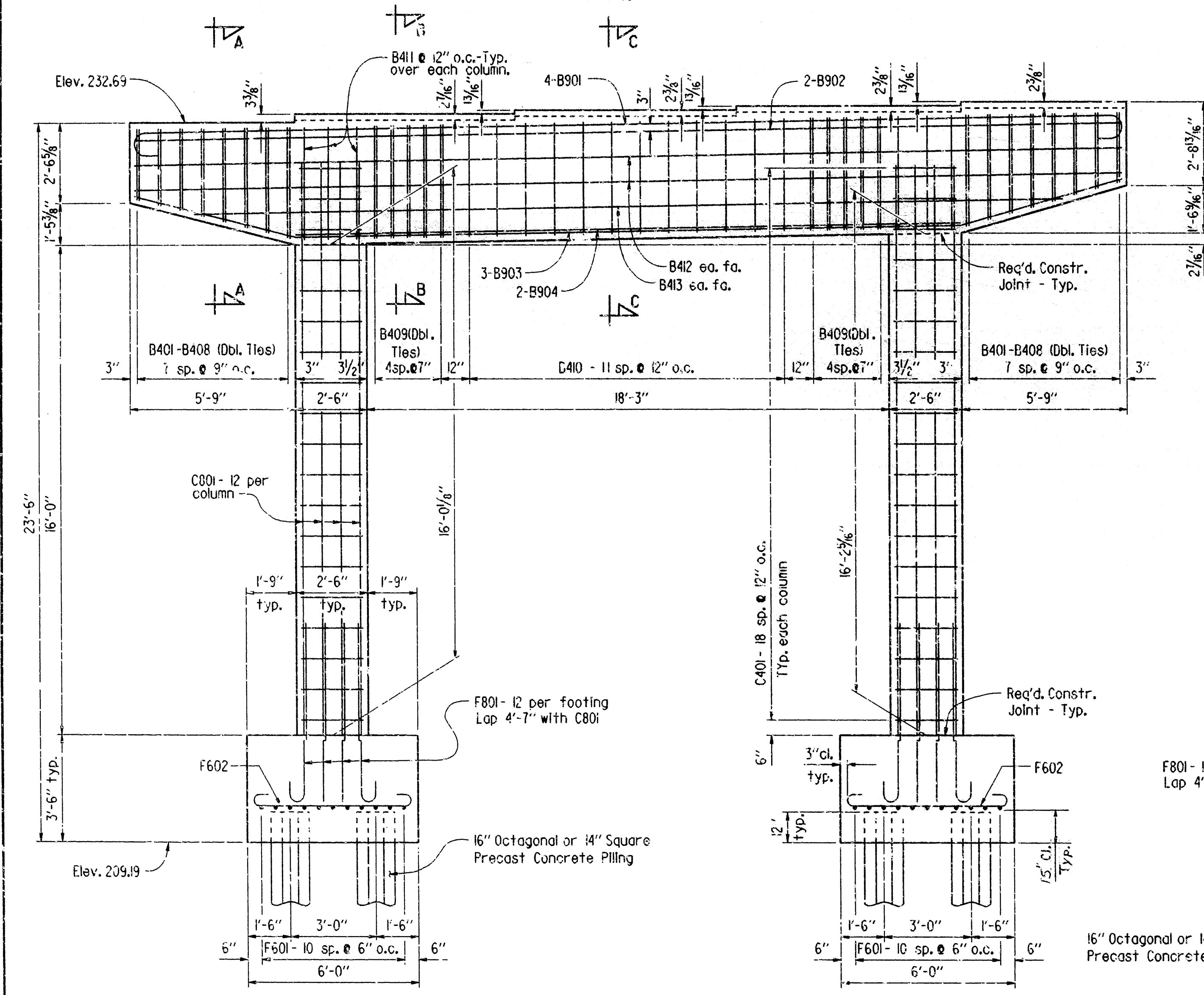


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		RI0008	79	235

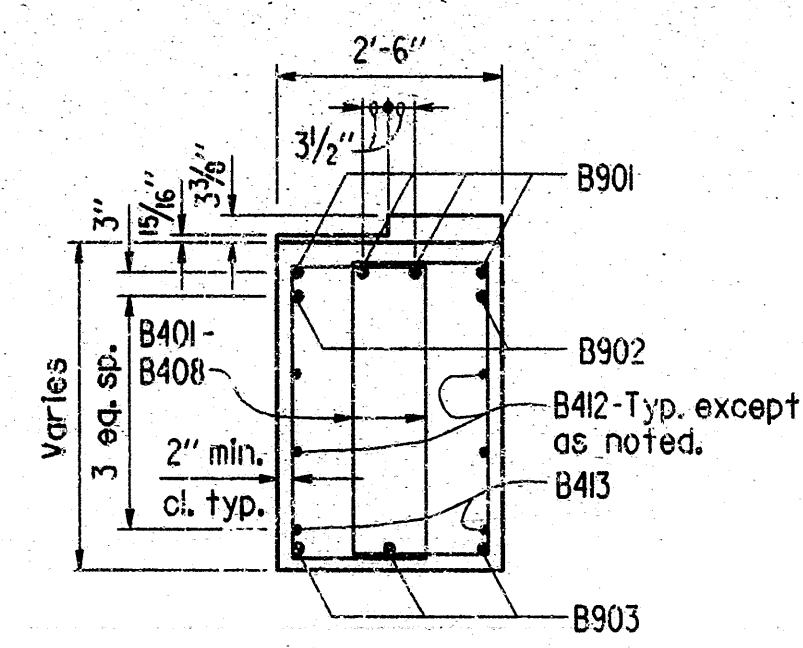
3130R-BENT 2A (7TH ST.)-29955



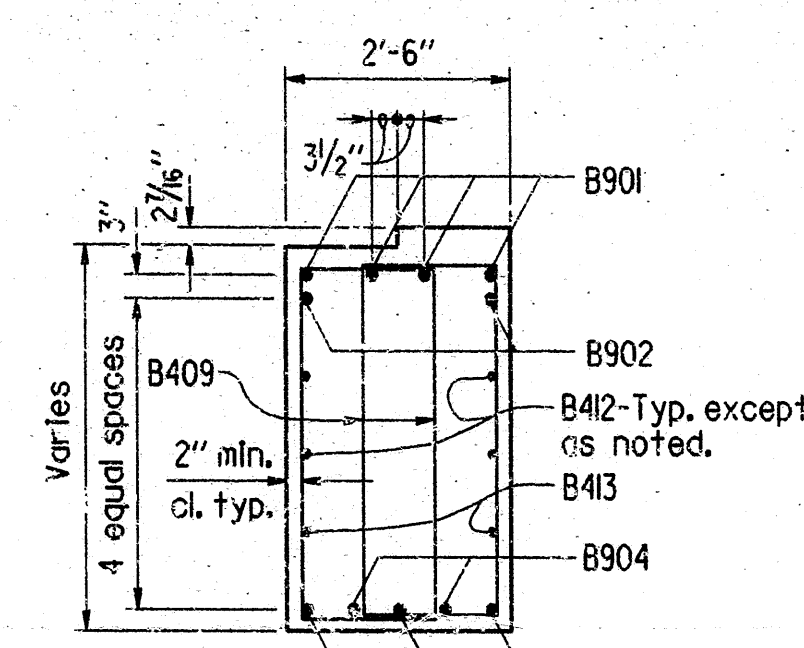
PLAN - BENT 2A  
Scale: 1/8" = 1'-0"



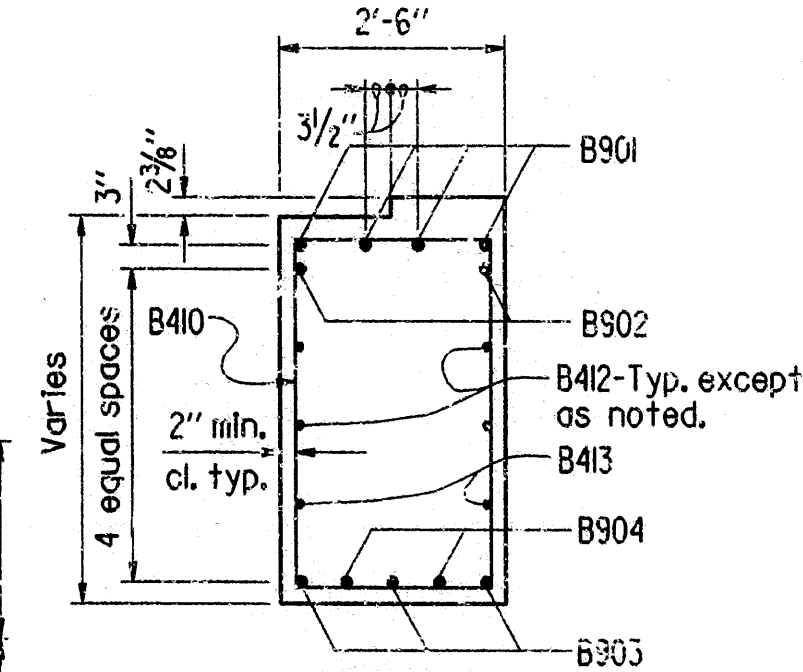
ELEVATION - BENT 2A  
(Looking Ahead)  
Scale: 1/8" = 1'-0"



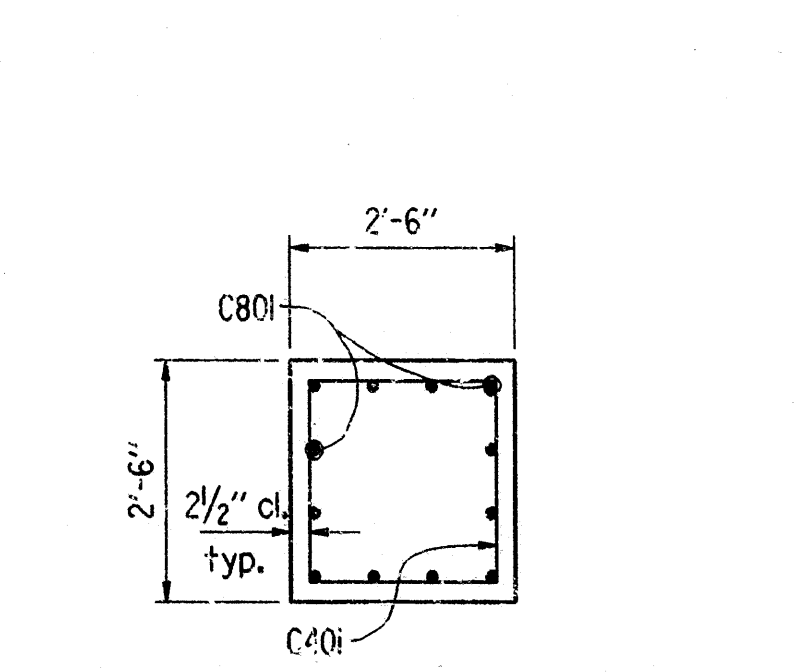
SECTION A-A  
Scale: 1/2" = 1'-0"



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



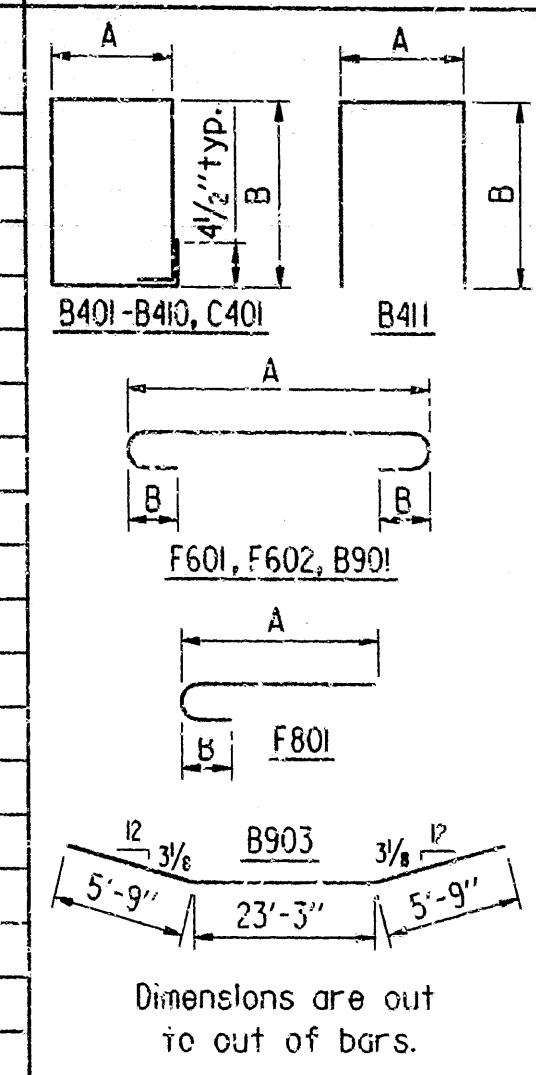
SECTION C-C  
Scale: 1/2" = 1'-0"



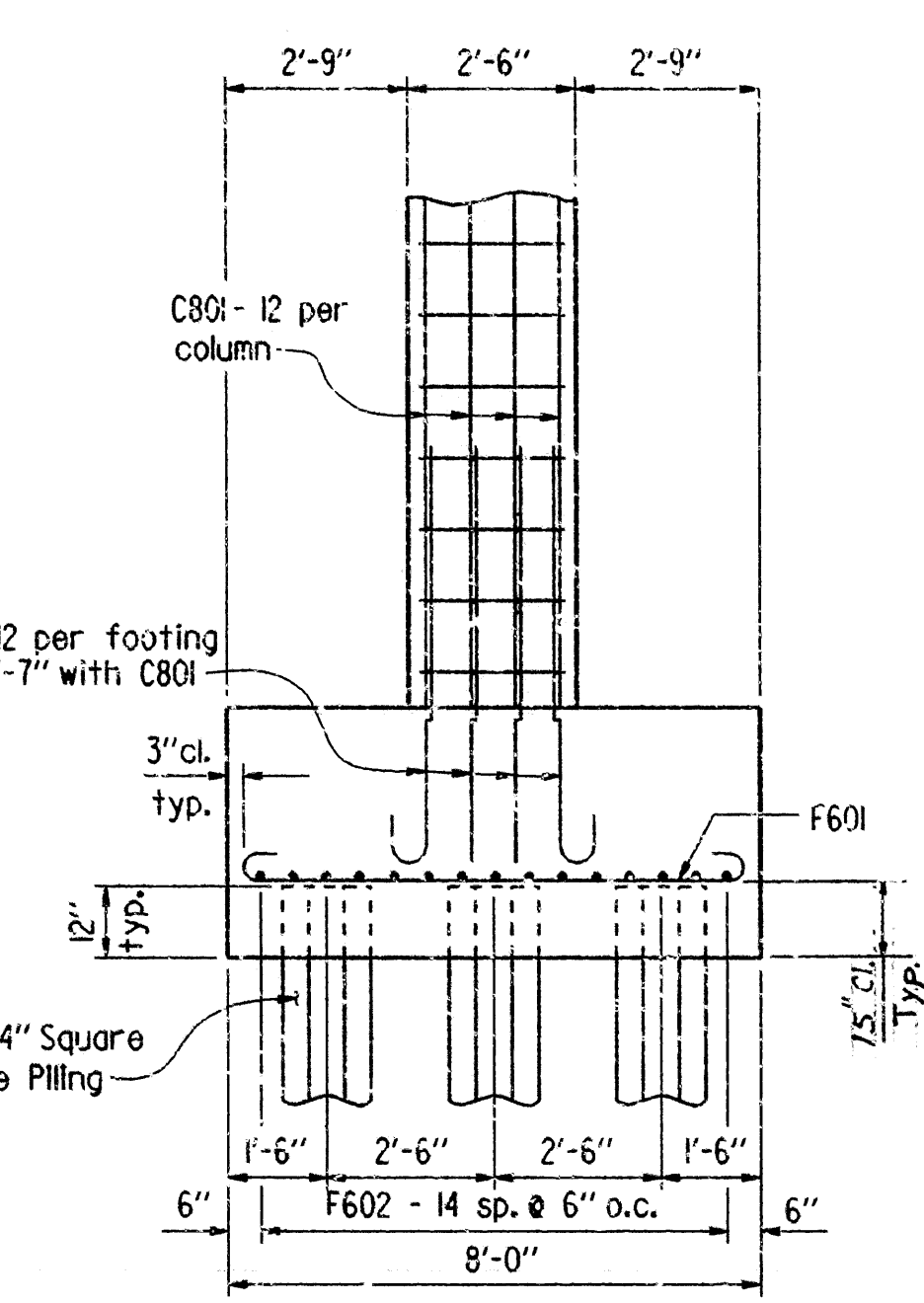
TYP. SECTION THRU COLUMN  
Scale: 1/2" = 1'-0"

MARK	NO.	REOD.	LENGTH	A	B	P.D.	BENDING DIAGRAMS
B401-B408	4	ea.	Var. 7'-10" to 10'-7"	1'-6"	Var. 2'-2 3/4" to 3'-7 1/4"	2"	
B409	20		10'-8"	1'-6"	3'-8"	2"	
B410	12		12'-0"	2'-2"	3'-8"	2"	
B411	6		9'-4"	2'-2"	3'-8"	2"	
B412	4		34'-5"			Str.	
B413	2		29'-11"			Str.	
C401	38		8'-8"	2'-1"	2'-1"	2"	
F601	22		8'-10"	7'-6"	6"	4 1/2"	
F602	30		6'-10"	5'-6"	6"	4 1/2"	
C801	24		16'-9"			Str.	
F801	24		7'-11"	7'-0"	8"	6"	
B901	4		36'-11"	34'-5"	10"	9"	
B902	2		34'-5"			Str.	
B903	3		34'-9"			See Diagram	
B904	2		23'-3"			Str.	

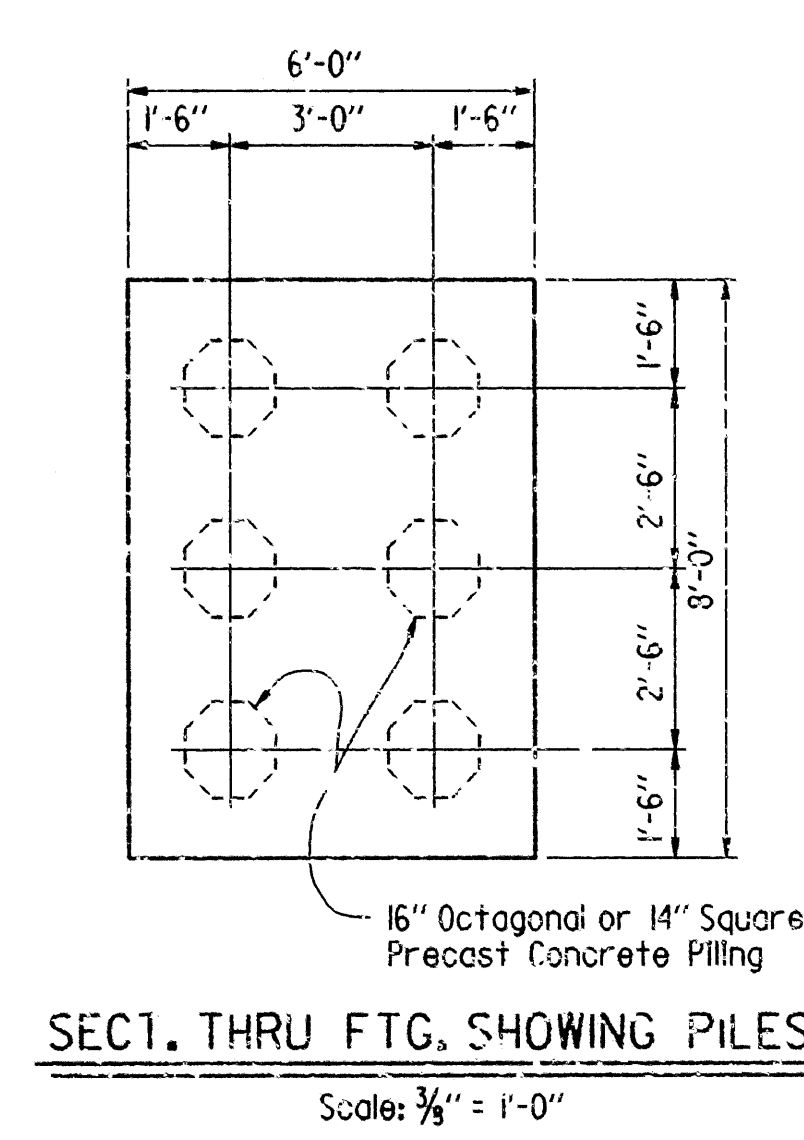
BAR LIST



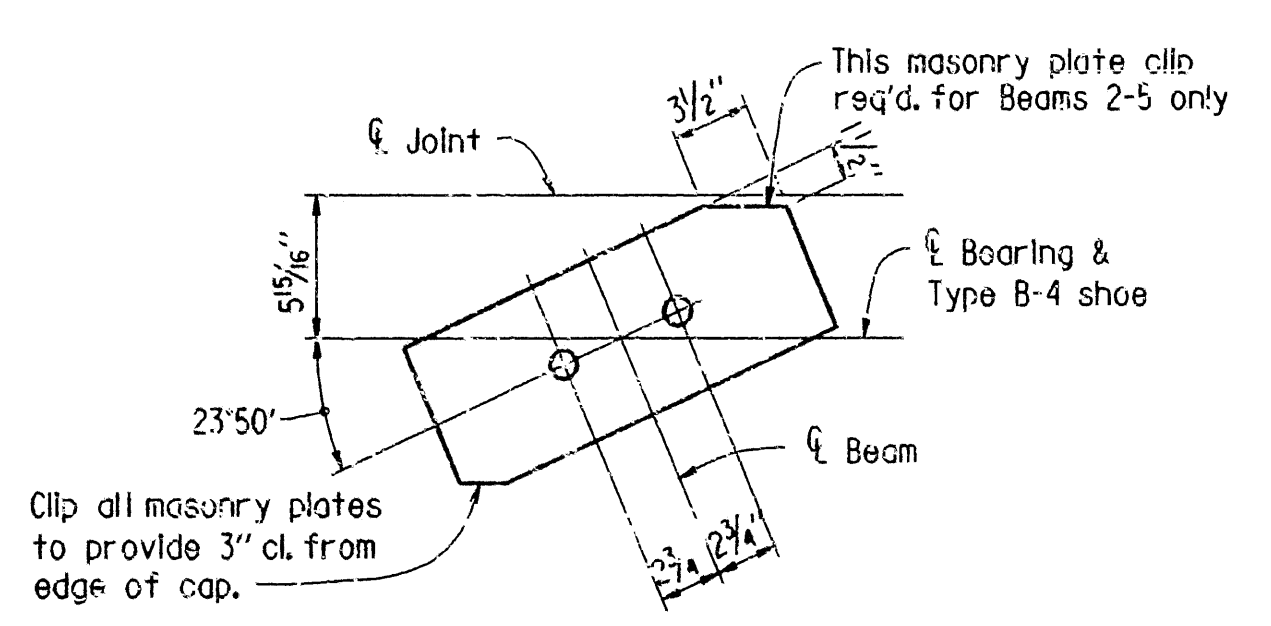
GENERAL NOTES  
ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH. f'c = 3500 PSI AND SHALL BE POURED IN THE DRY. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.  
REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A617, GRADE 60 (YIELD STRENGTH = 60,000 PSI).  
LIVE LOAD: HS20 METHOD OF DESIGN: LOAD FACTOR  
FOR ADDITIONAL NOTES AND FILE NOTES, SEE LAYOUT & DWG. NO. 29965 & 29966.  
FOR DETAILS OF TYPE 'B'-4 SHOES & ANCHOR COLTS, SEE DWG. NO. 29966.



PARTIAL END VIEW  
Scale: 3/8" = 1'-0"



SEC. THRU FTG. SHOWING PILES  
Scale: 3/8" = 1'-0"



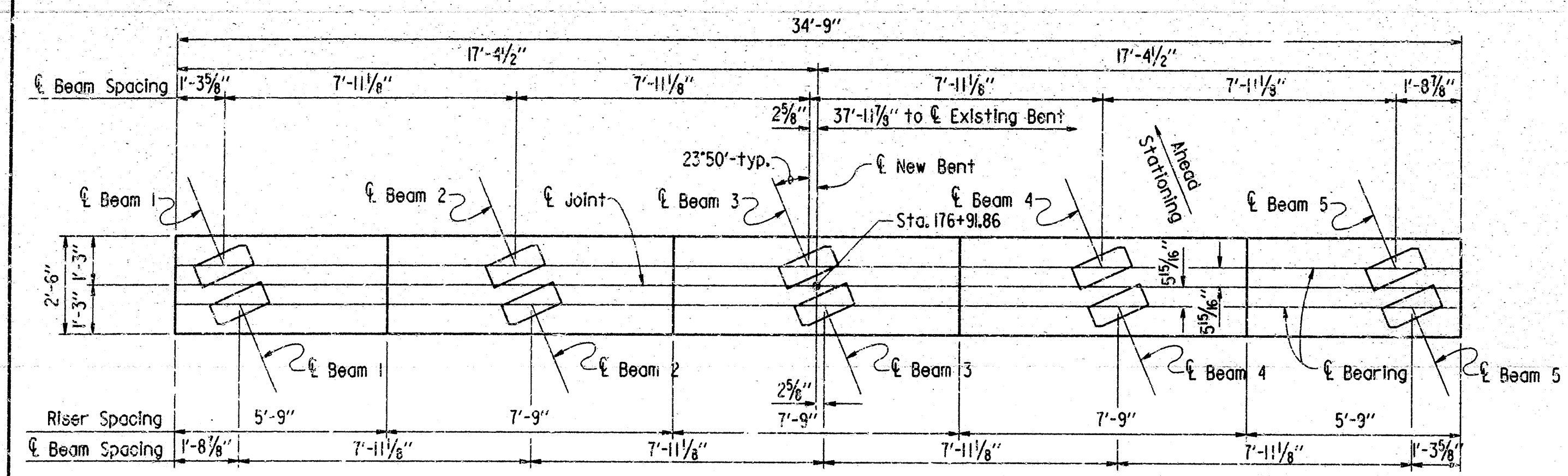
TYP. ANCHOR BOLT LAYOUT  
Scale: 1 1/2" = 1'-0"

DETAILS OF BENT NO. 2A  
7TH STREET  
ROUTE 8  
ARIZONA STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: KDH DATE: 21 APR 88  
CHECKED BY: C.J.F. DATE: 8-18-88  
DESIGNED BY: D.H.P. DATE: 2-16-88  
BRIDGE NO. 313. DRAWING NO. 29955

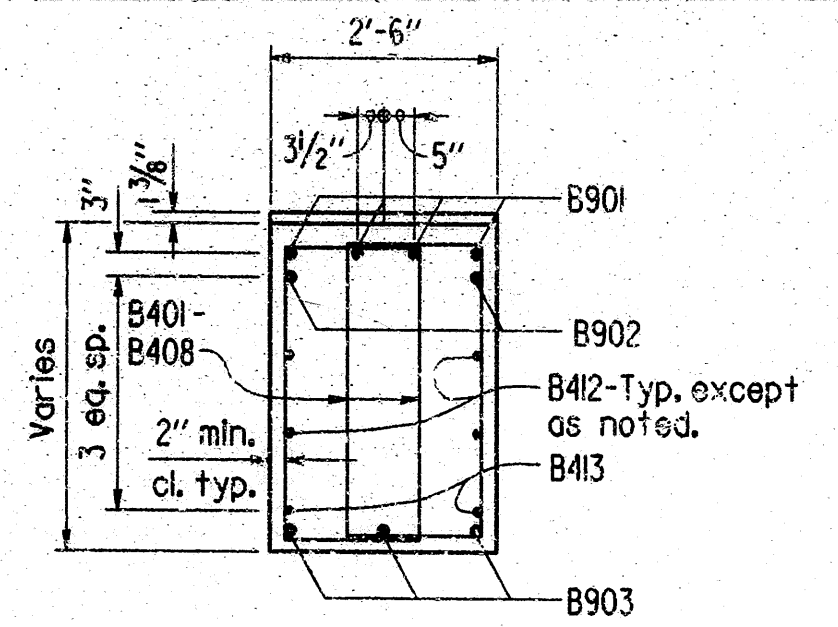


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. PROJ. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		RI0008	B 0	2 3 5

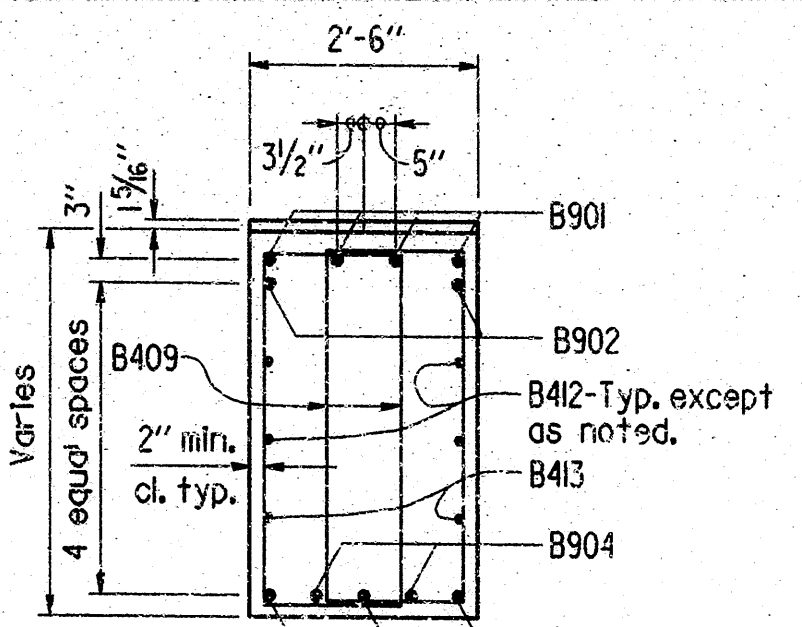
① 3130R-BENT 3A (7TH ST.)-29956



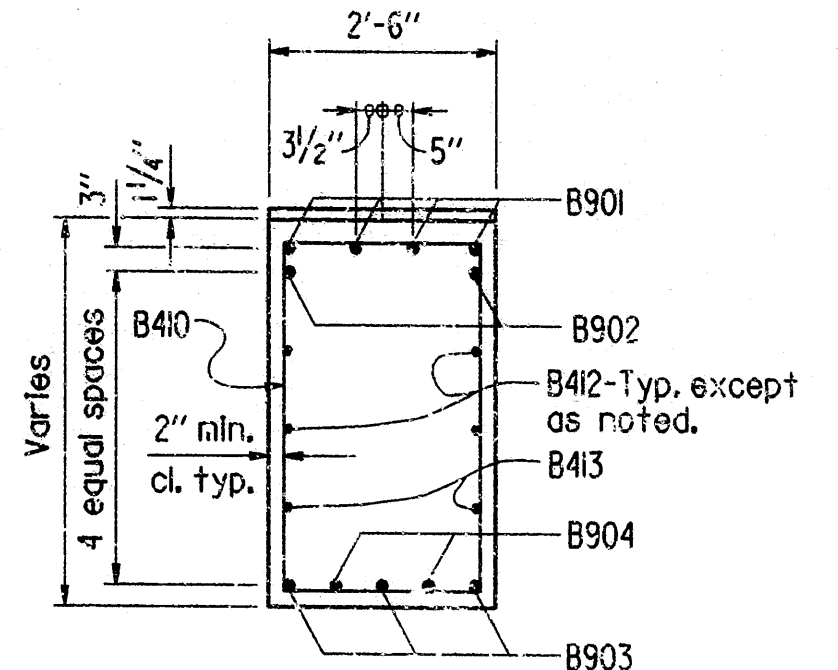
PLAN - BENT 3A  
Scale: 3/8" = 1'-0"



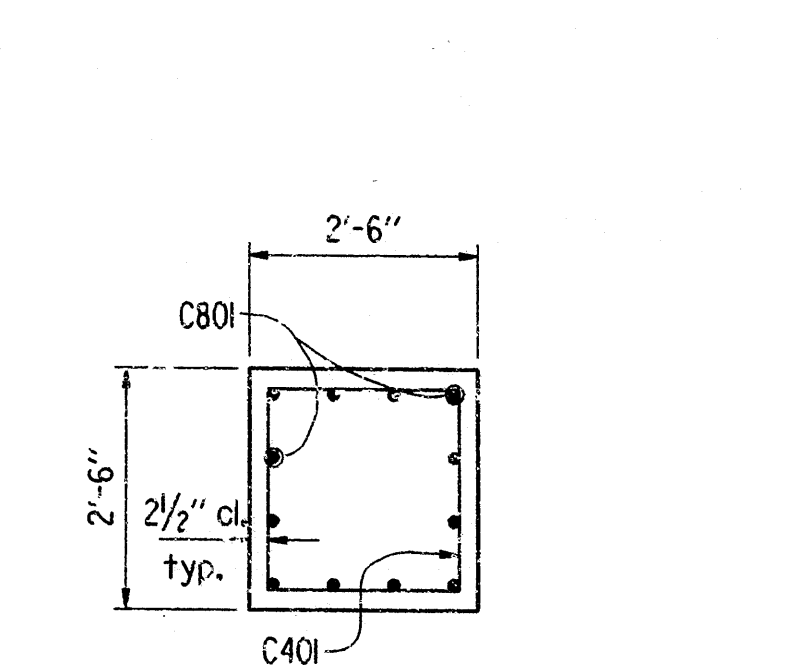
SECTION A-A  
Scale: 1/2" = 1'-0"



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



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

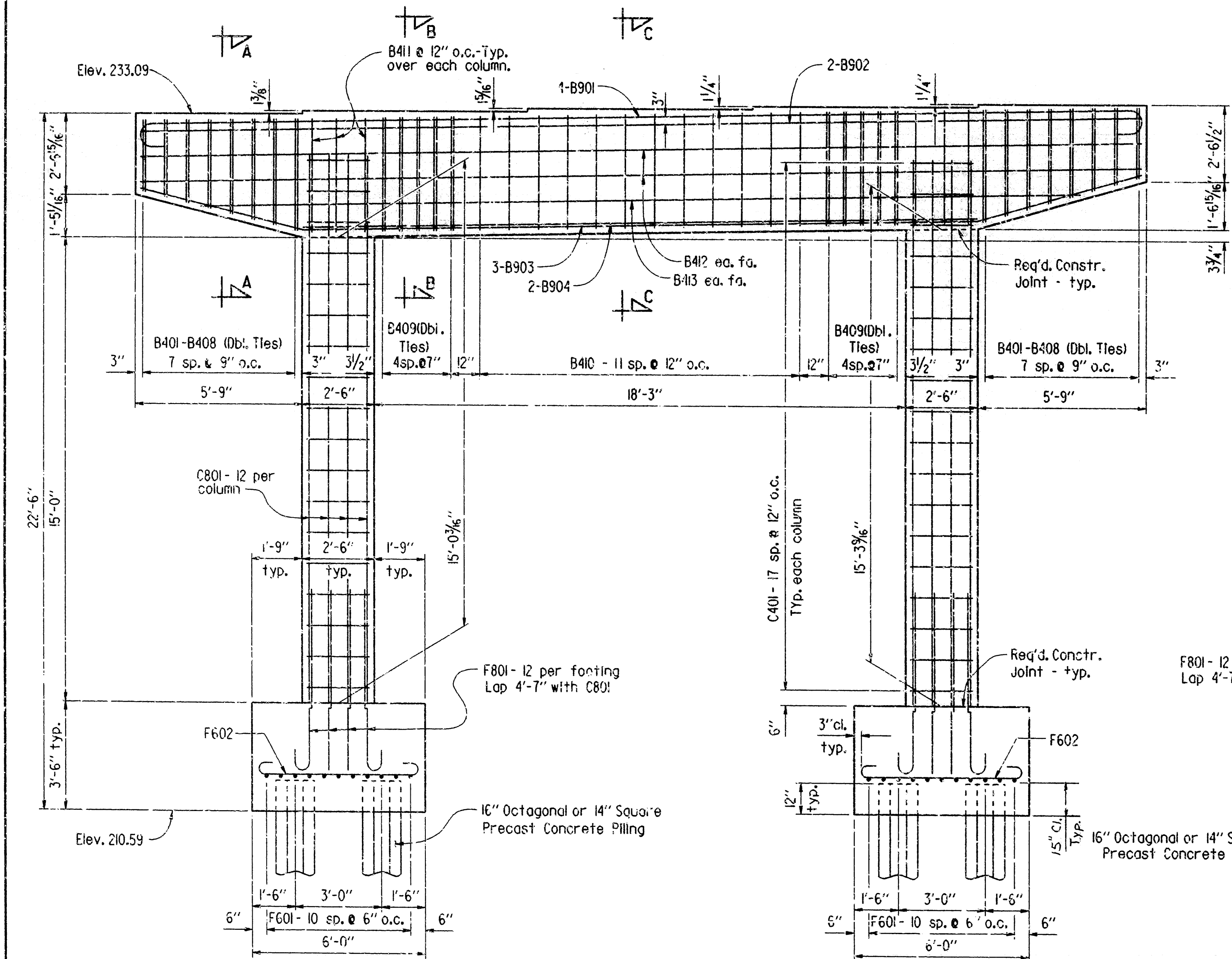


TYP. SECTION THRU COLUMN  
Scale: 1/2" = 1'-0"

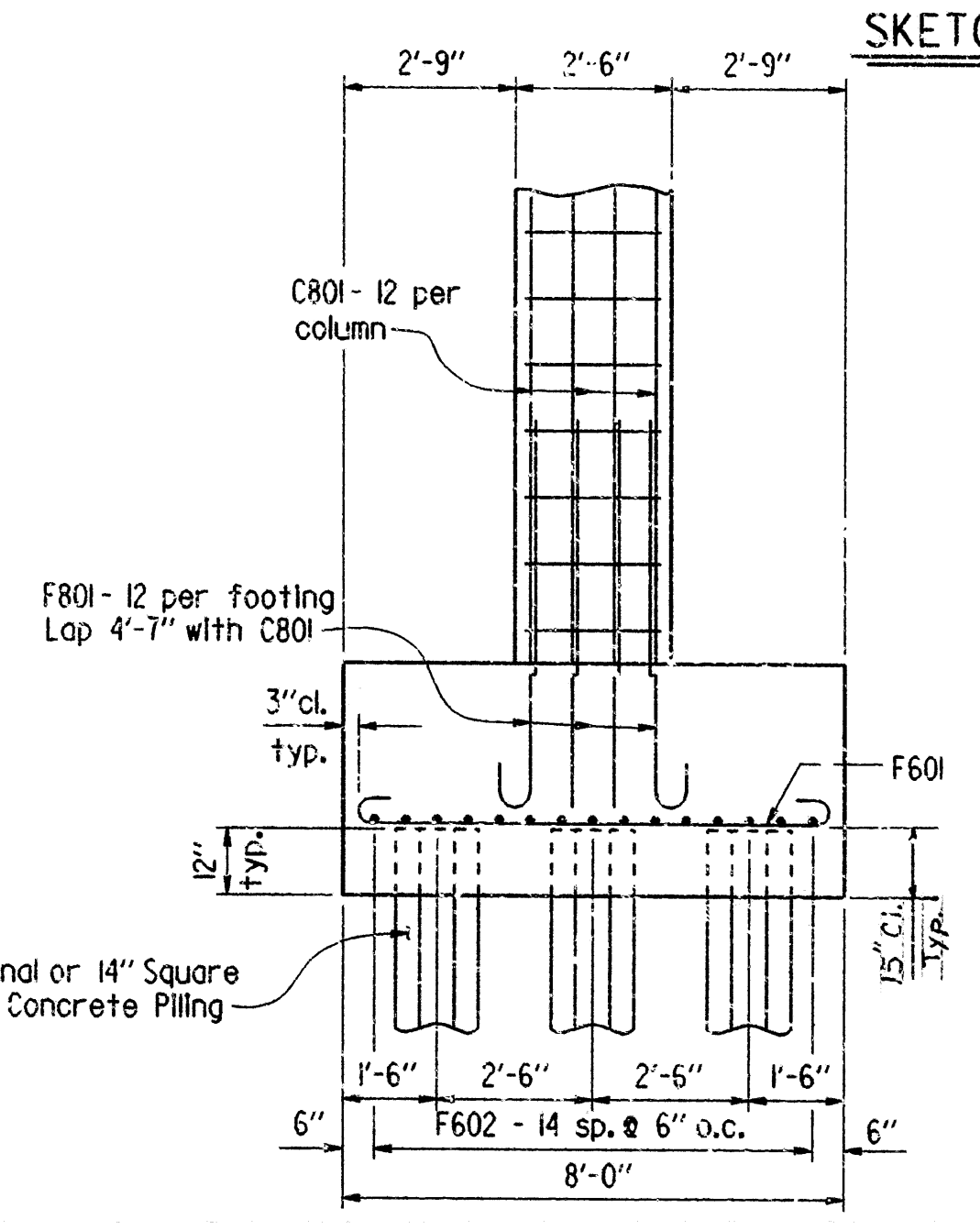
MARK	NO. REQD.	LENGTH	A	B	P.D.	BENDING DIAGRAMS
B401-B408	4 ea.	Var. 8'-0" to 10'-9"	1'-7"	Var. 2'-2 1/4" to 3'-7 1/4"	2"	
B409	20	10'-10"	1'-7"	3'-8"	2"	
B410	12	12'-0"	2'-2"	3'-8"	2"	
B411	6	9'-4"	2'-2"	3'-6"	2"	
B412	4	34'-5"			Str.	
B413	2	29'-11"			Str.	
C401	36	8'-8"	2'-1"	2'-1"	2"	
F601	22	8'-10"	7'-6"	6"	4 1/2"	
F602	30	6'-10"	5'-6"	6"	4 1/2"	
C801	24	17'-9"			Str.	
F801	24	7'-11"	7'-0"	8"	6"	
B901	4	36'-11"	34'-5"	10"	9"	
B902	2	34'-5"			Str.	
B903	3	34'-9"	See Diagram		9"	
B904	2	23'-3"			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 INCHES UNLESS OTHERWISE NOTED.  
REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A617, GRADE 60 (YIELD STRENGTH = 60,000 PSI).  
LIVE LOAD: HS20 METHOD OF DESIGN: LOAD FACTOR  
FOR ADDITIONAL NOTES AND PILE NOTES, SEE LAYOUT & DWG. NO. 29965 & 29966.  
FOR DETAILS OF TYPE D SHOES AND ANCHOR BOLTS, SEE DWG. NO. 29966.

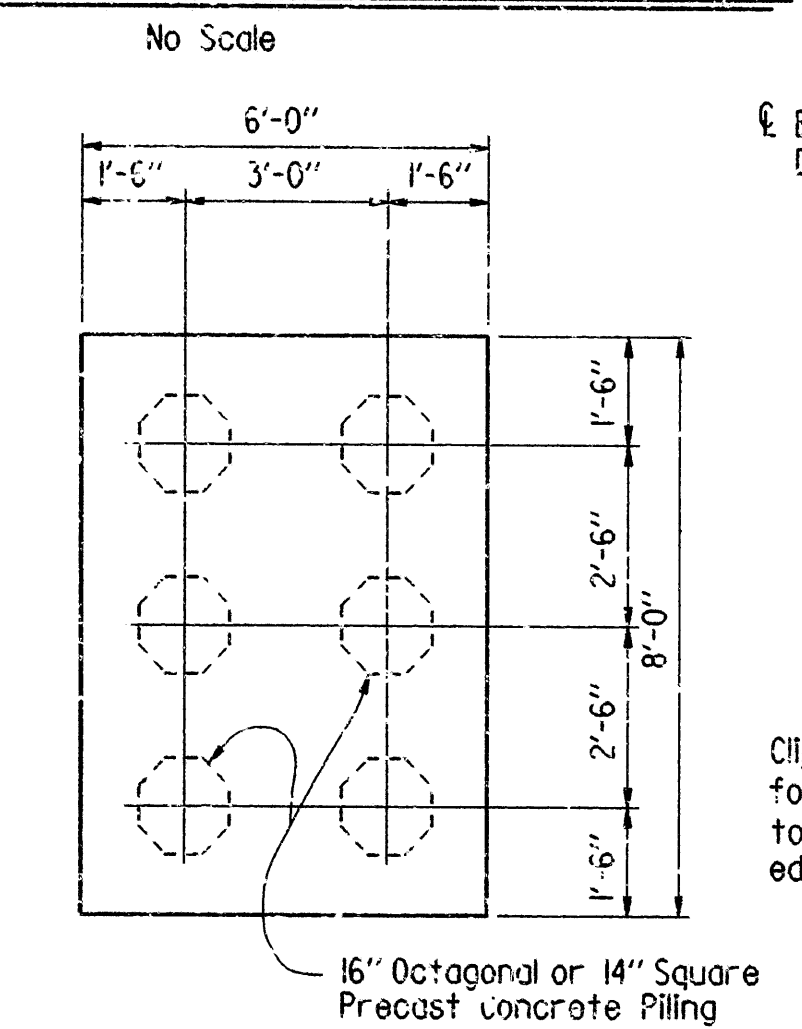


ELEVATION - BENT 3A  
(Looking Ahead)  
Scale: 3/8" = 1'-0"

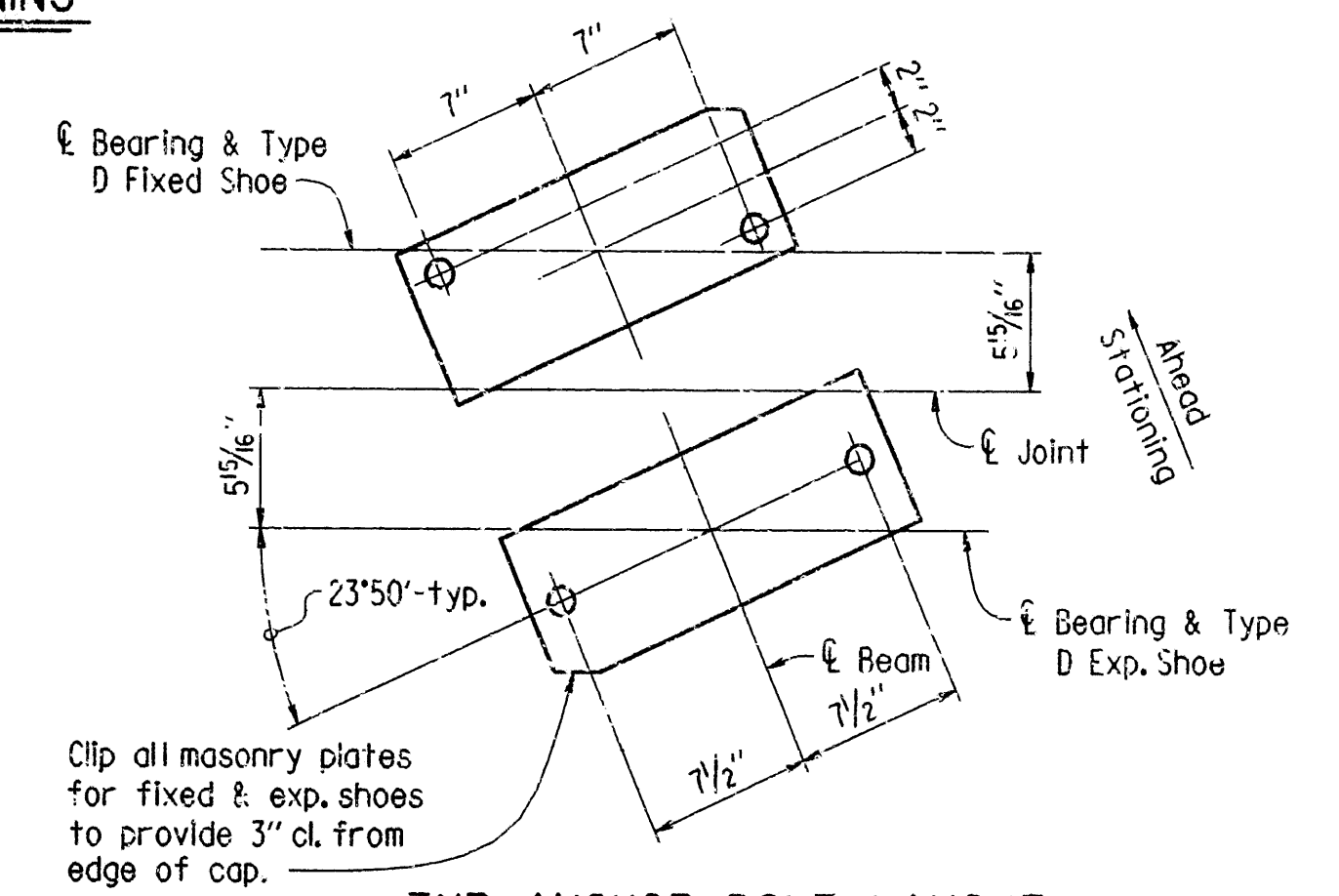


PARTIAL END VIEW  
Scale: 3/8" = 1'-0"

SKETCH SHOWING MASONRY PLATE THICKENING



SECT. THRU FTG. SHOWING PILES  
Scale: 3/8" = 1'-0"



TYP. ANCHOR BOLT LAYOUT  
Scale: 1 1/2" = 1'-0"

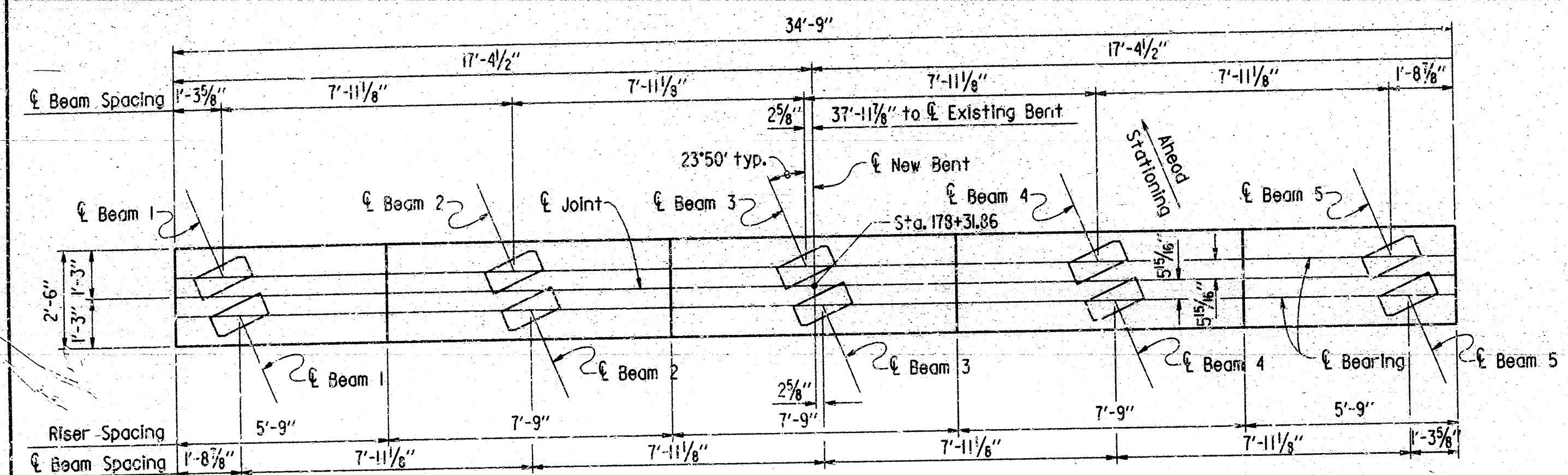
DETAILS OF BENT NO. 3A  
7TH STREET  
ROUTE SEC.  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: KDH DATE: 21 APR 88  
CHECKED BY: C.J.F. DATE: 8-18-88  
DESIGNED BY: D.H.P. DATE: 2-16-88  
BRIDGE NO. 3130R DRAWING NO. 29956



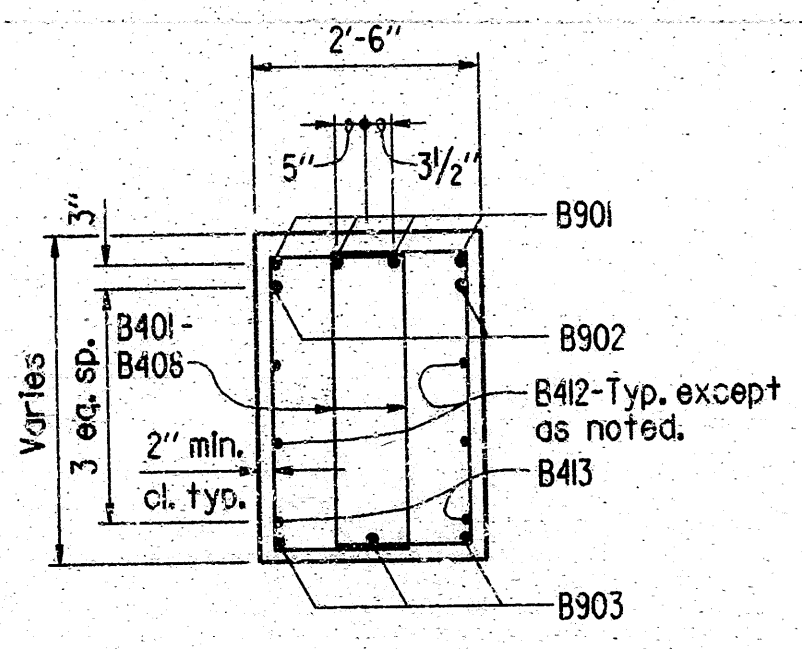




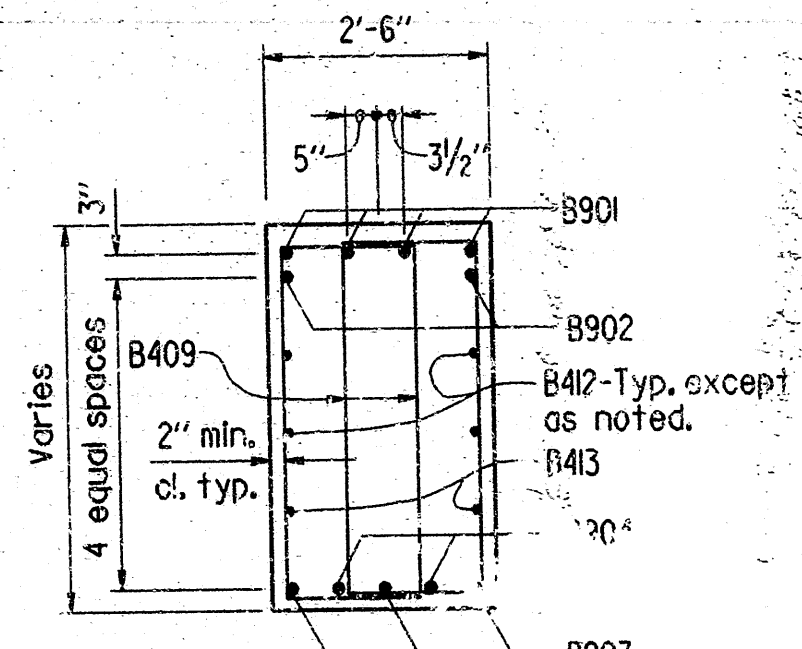
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		RI0008	82	235
① 3130R-BENT 5A (7TH ST.)-29958								



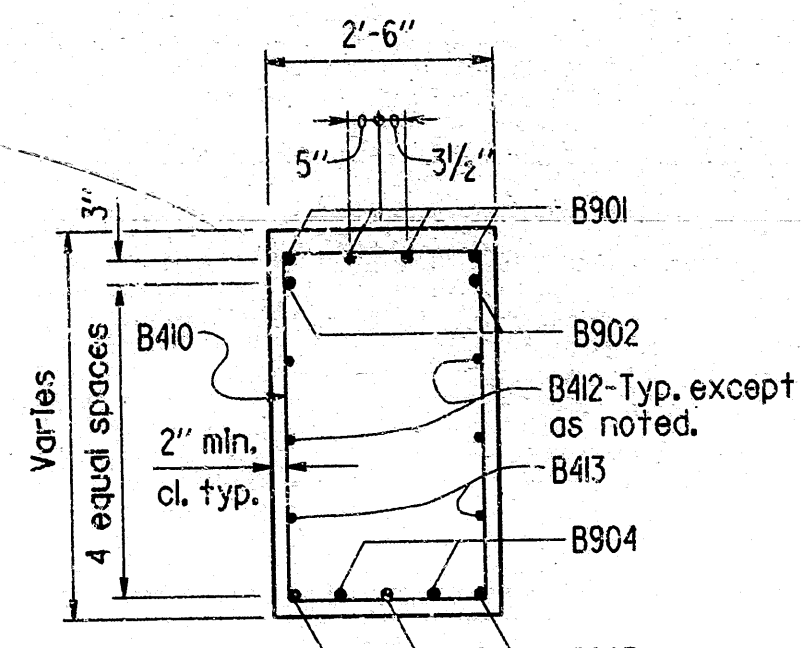
PLAN - BENT 5A  
Scale: 3/8" = 1'-0"



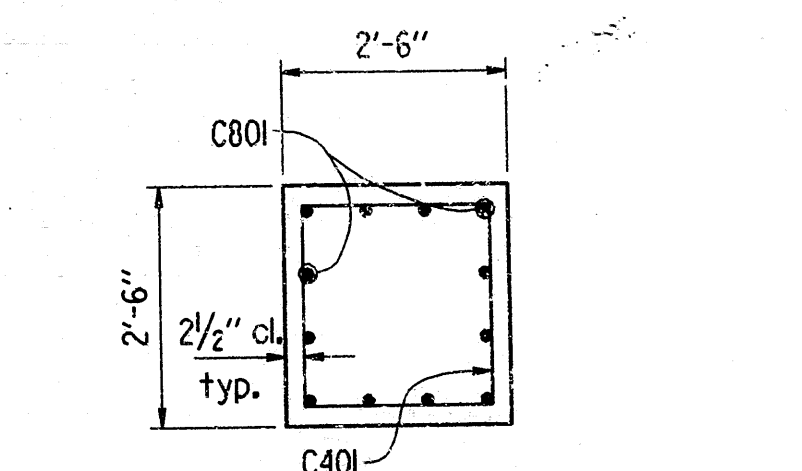
SECTION A-A  
Scale: 1/2" = 1'-0"



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



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



TYP. SECTION THRU COLUMN  
Scale: 1/2" = 1'-0"

BAR LIST						BENDING DIAGRAMS	
MARK	NO.	REQD.	LENGTH	A	B	P.D.	
B401-B408	4 ea.		Var. 8'-0" to 10'-9"	1'-7"	Var. 2'-2 3/4" to 3'-7 1/4"	2"	
B409	20		10'-10"	1'-7"	3'-8"	2"	
B410	12		12'-0"	2'-2"	3'-8"	2"	
B411	6		9'-4"	2'-2"	3'-8"	2"	
B412	4		34'-5"			Str.	
B413	2		29'-11"			Str.	
C401	34		8'-8"	2'-1"	2'-1"	2"	
F601	22		8'-10"	7'-6"	6"	4 1/2"	
F602	30		6'-10"	5'-6"	6"	4 1/2"	
C801	24		16'-6"			Str.	
F801	24		7'-11"	7'-0"	8"	6"	
B901	4		36'-11"	34'-5"	10"	9"	
B902	2		34'-5"			Str.	
B903	3		34'-9"			Str.	
B904	2		23'-3"			Str.	

GENERAL NOTES

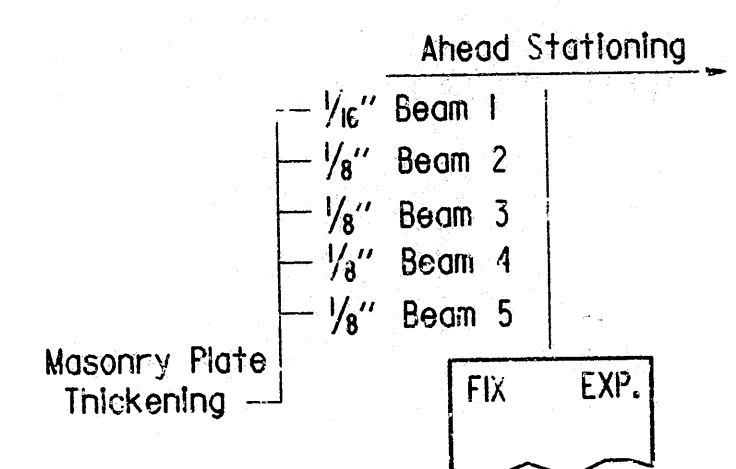
ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH, f'c = 3500 PSI AND SHALL BE POURED IN THE DRY. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A617, GRADE 60 (YIELD STRENGTH = 60,000 PSI).

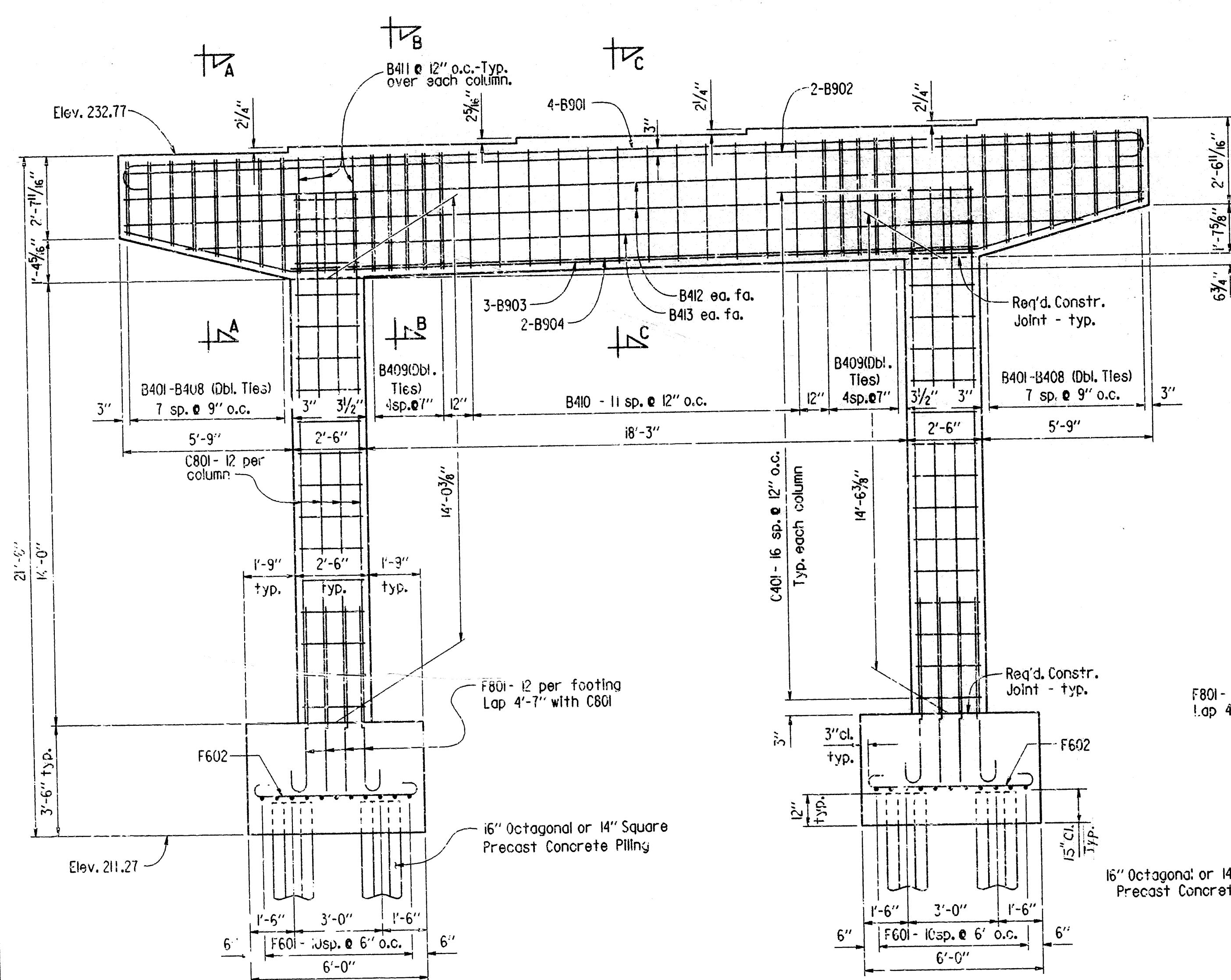
LIVE LOAD: HS20 METHOD OF DESIGN: LOAD FACTOR

FOR ADDITIONAL NOTES AND FILE NOTES, SEE LAYOUT & DWG. NO. 29965 & 29966.

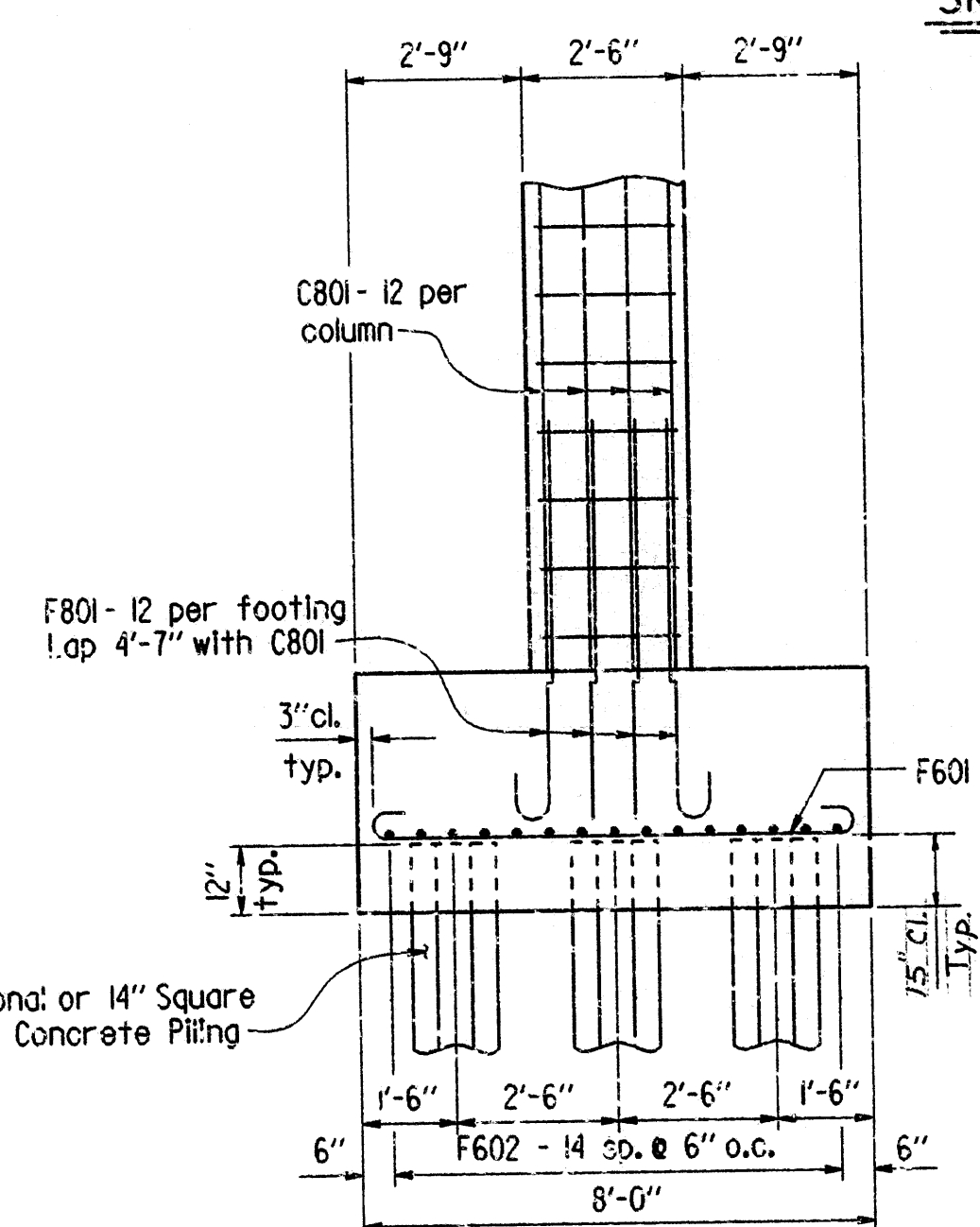
FOR DETAILS OF TYPE D SHOES AND ANCHOR BOLTS, SEE DWG. NO. 29966.



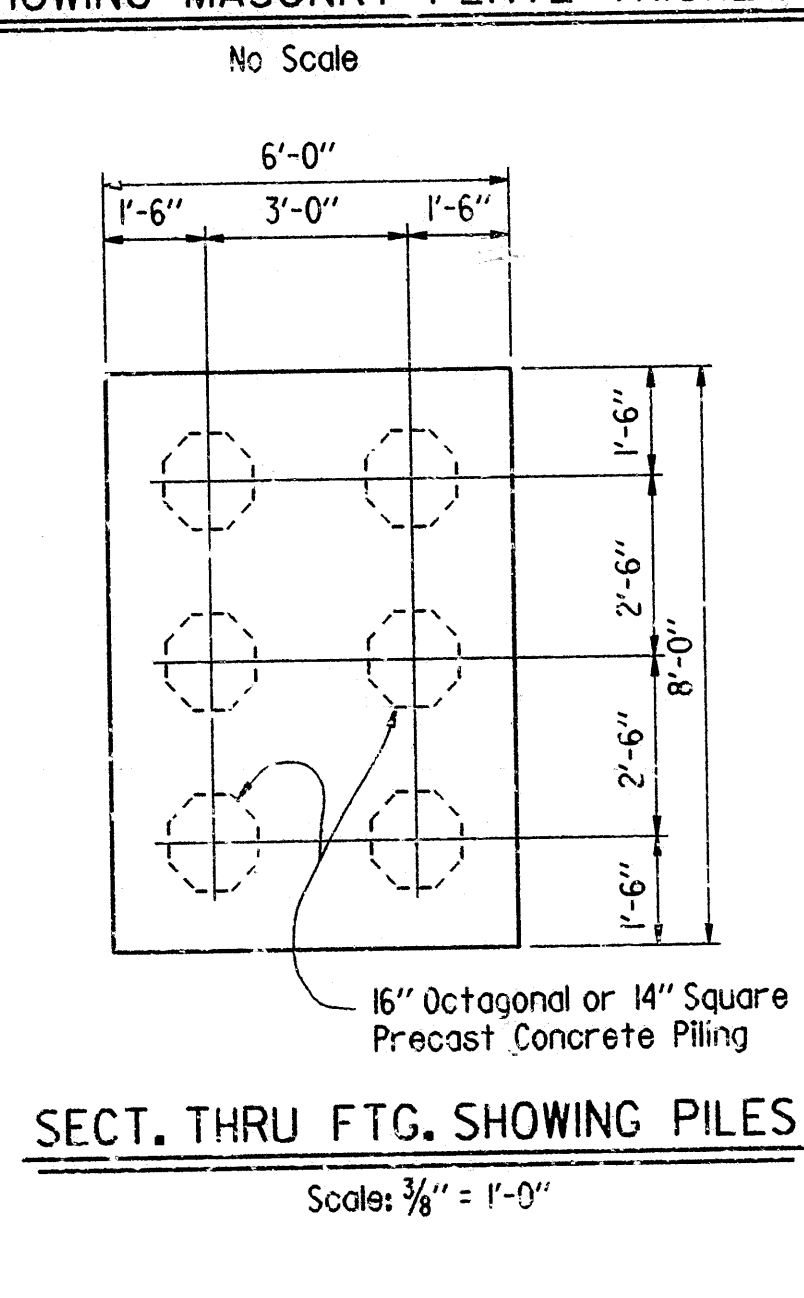
SKETCH SHOWING MASONRY PLATE THICKENING



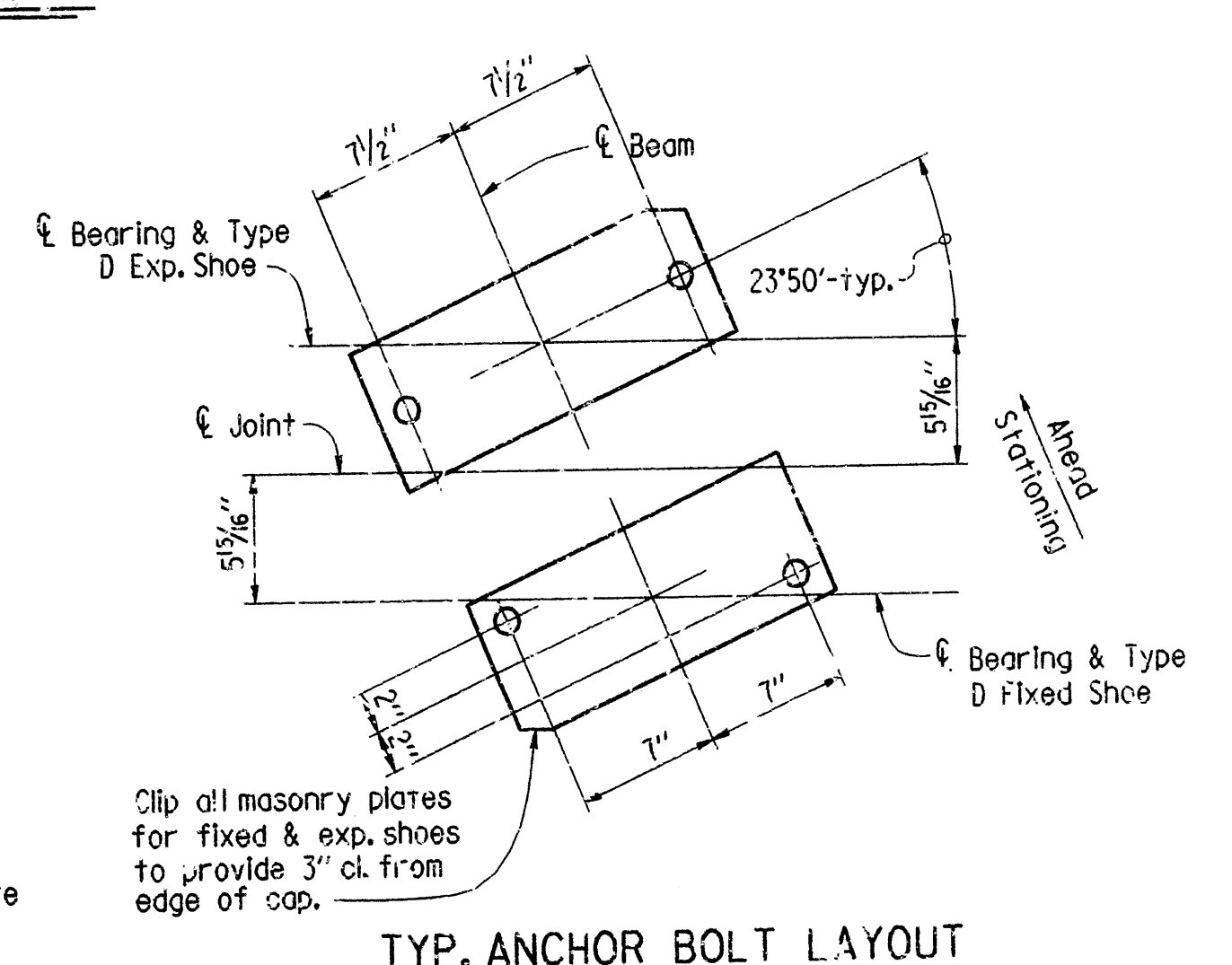
ELEVATION - BENT 5A  
(Looking Ahead)  
Scale: 3/8" = 1'-0"



PARTIAL END VIEW  
Scale: 3/8" = 1'-0"



SECT. THRU FTG. SHOWING PILES  
Scale: 3/8" = 1'-0"



TYP. ANCHOR BOLT LAYOUT  
Scale: 1/2" = 1'-0"

DETAILS OF BENT NO. 5A  
7TH STREET  
ROUTE SEC.  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: 21 APR 88  
CHECKED BY: C.J.F. DATE: 8-18-88 SCALE: AS NOTED  
DESIGNED BY: D.L.P. DATE: 2-16-88  
BRIDGE NO. 3130R DRAWING NO. 29958

*Visual Pinkerton*  
BRIDGE ENGINEER



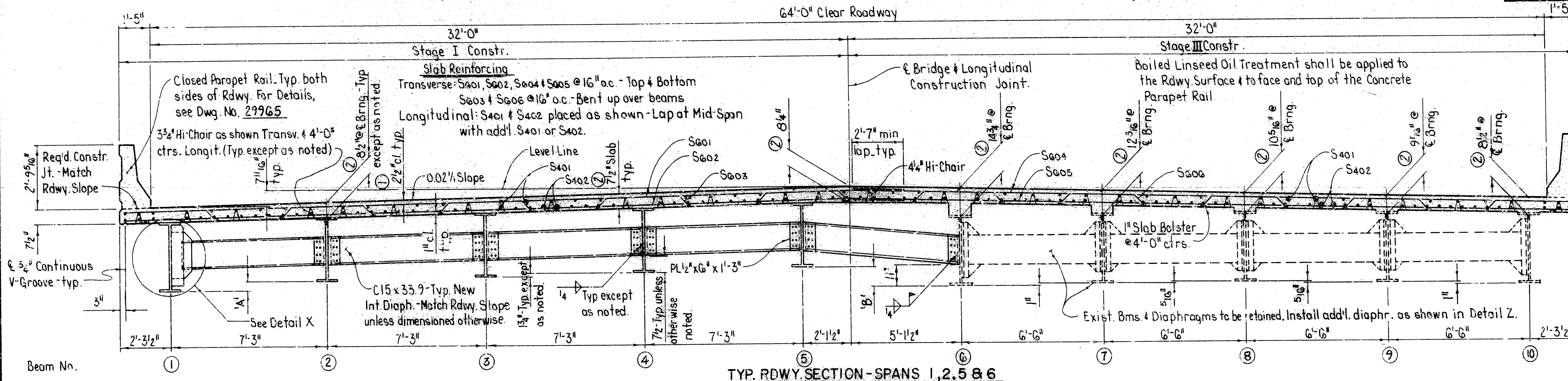




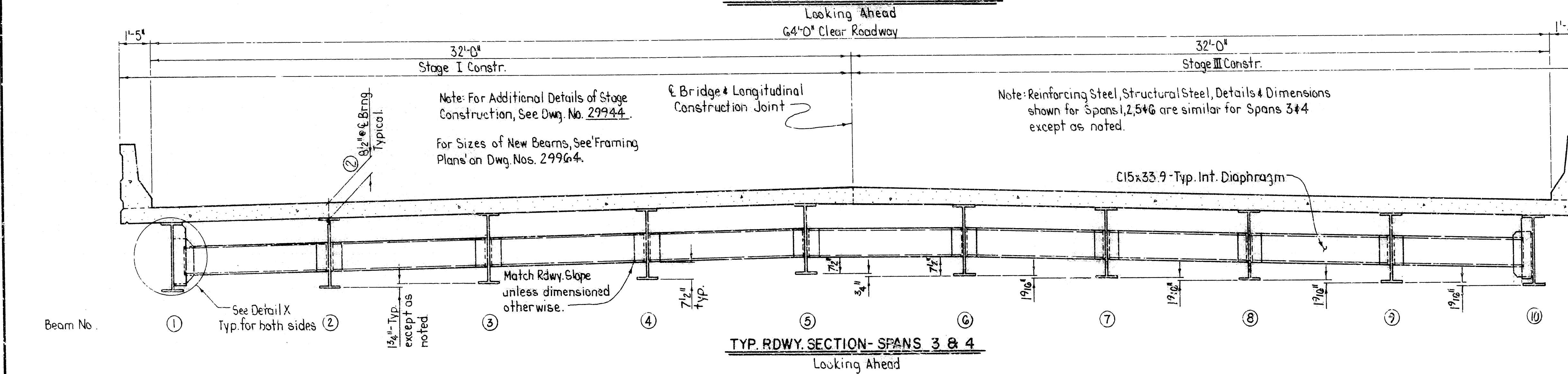
Note: For Additional Details of Stage Construction, See Dwg. No. 29944.

For Sizes of New & Existing Beams, See Framing Plans on Dwg. Nos. 29962 & 29963

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						R10008	84	235
3130R - SPAN DETAILS-29960								



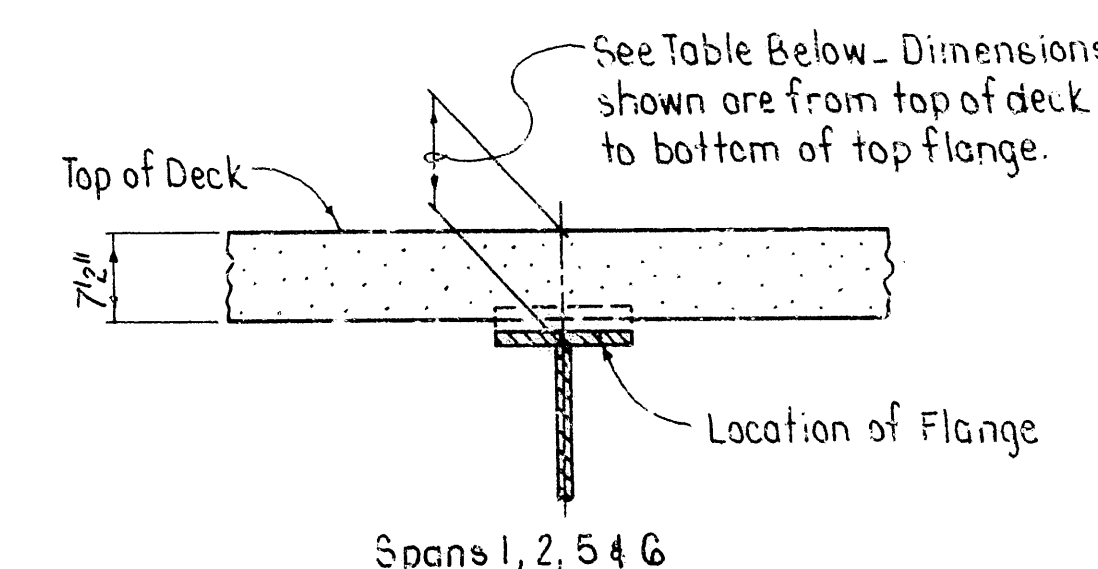
TYP. RDWY. SECTION - SPANS 1, 2, 5 & 6



TYP. RDWY. SECTION - SPANS 3 & 4

- ① Tolerance: Minus = 1/4" Plus: Equal to amount of Slab Thickening used to meet Slab Thickness tolerance - See Detail B on Dwg. No. 29966.
- ② See Detail B on Dwg. No. 29966. Dimensions shown at & Bearings are from top of deck to bottom of top flange.

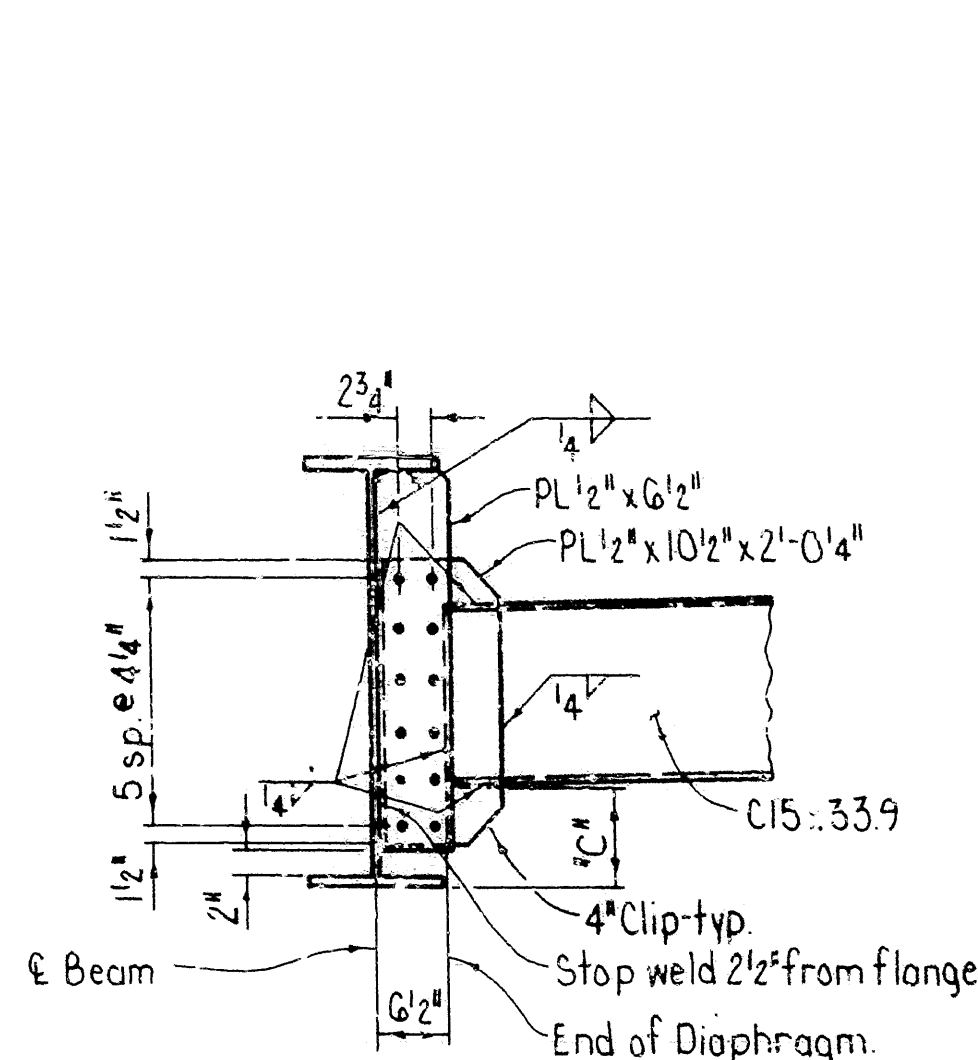
Span No.	'A'	'B'	'C'
1 & 6	4' 3/4"	9' 3/4"	10'
2 & 5	1' 3/4"	7' 8"	7' 5/8"
3 & 4	-	-	7' 5/8"



Beam No.	Thickness at End Bearing	Acceptable Range of Thickness Away from End Bearing
6	14 3/4"	13' 1/8" to 16' 3/8"
7	12 3/16"	11' 1/8" to 14' 3/8"
8	10' 5/16"	8' 1/8" to 11' 3/8"
9	9' 1/16"	7' 5/8" to 10' 3/8"
10	8' 1/2"	7' 5/8" to 9' 3/8"

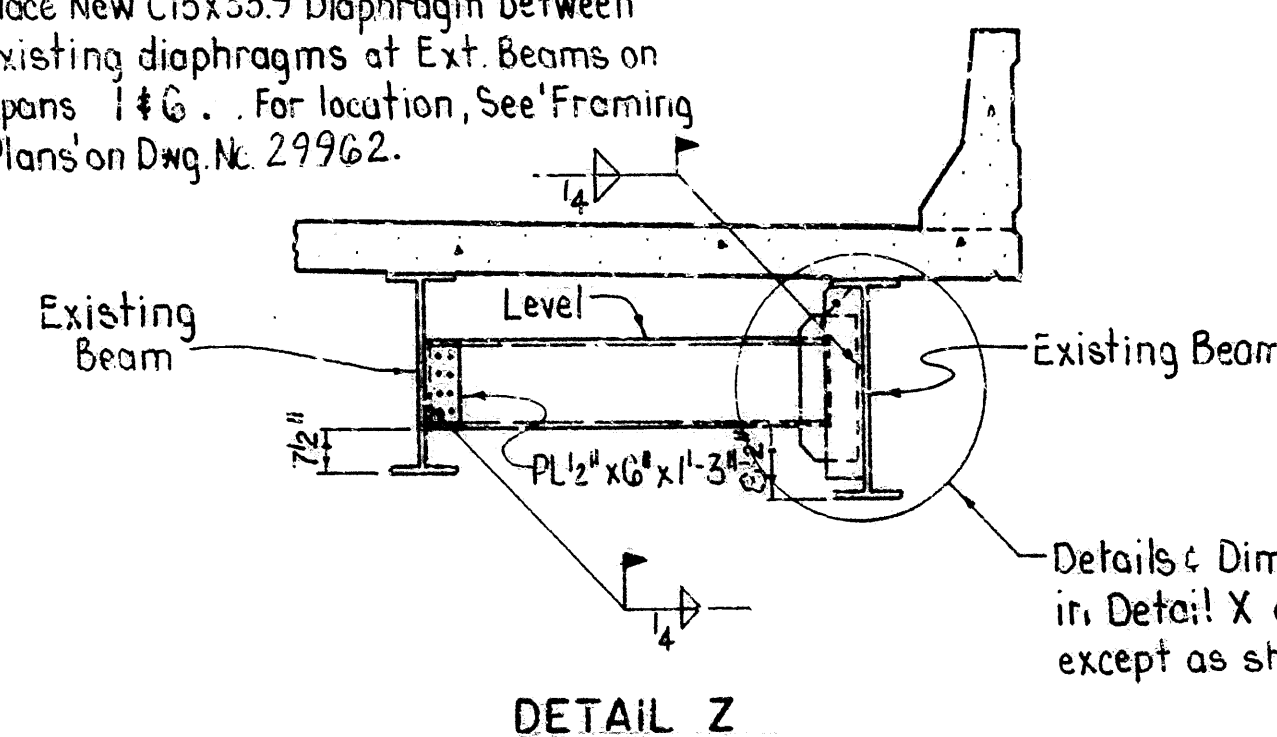
ACCEPTABLE LOCATION FOR EXISTING BEAM FLANGE BETWEEN BEARINGS

No Scale



DETAIL X

Place New C15x33.9 Diaphragm between existing diaphragms at Ext. Beams on Spans 1 & 6. For location, See Framing Plans on Dwg. No. 29962.



DETAIL Z

& Bridge & Longit. Constr. Joint. 1/4" x 1" Type G Joint Sealer. See Sections 501.03(h) & 501.04(j) of the Standard Specifications. Joint Sealer shall be measured and paid for as Class S(AE) concrete.

DETAILS OF LONGITUDINAL CONSTRUCTION JOINT

No Scale

For 'GENERAL NOTES', See Dwg. Nos. 29965 & 29966.

SHEET 1 OF 7  
DETAILS OF W-BEAM SPANS  
7TH STREET

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

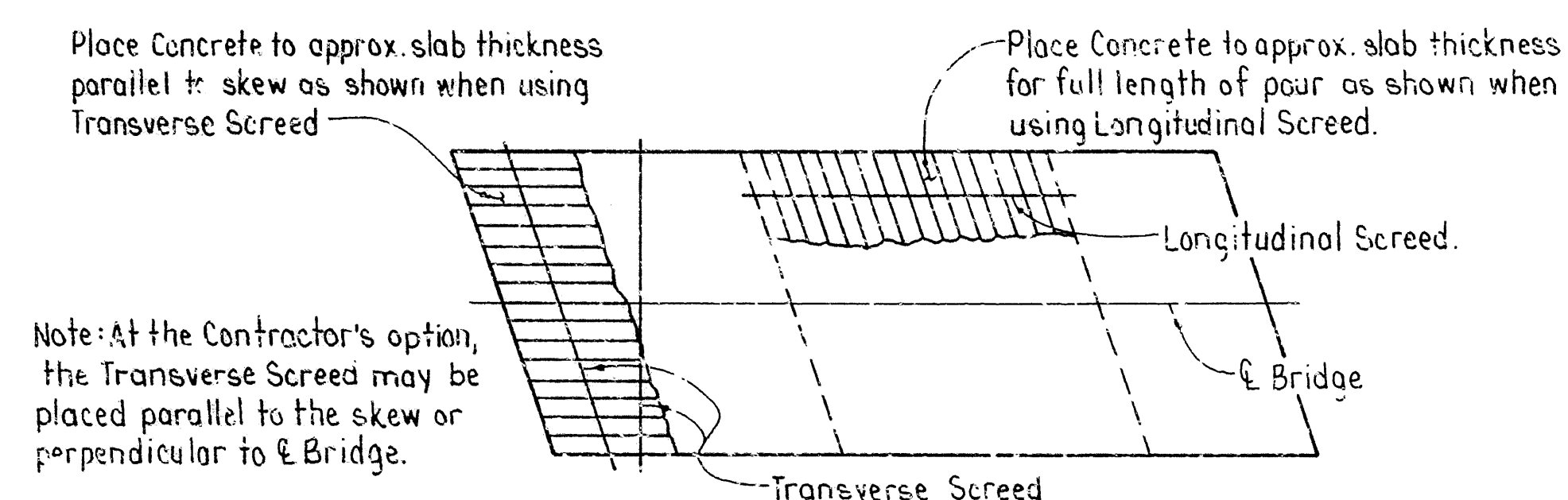
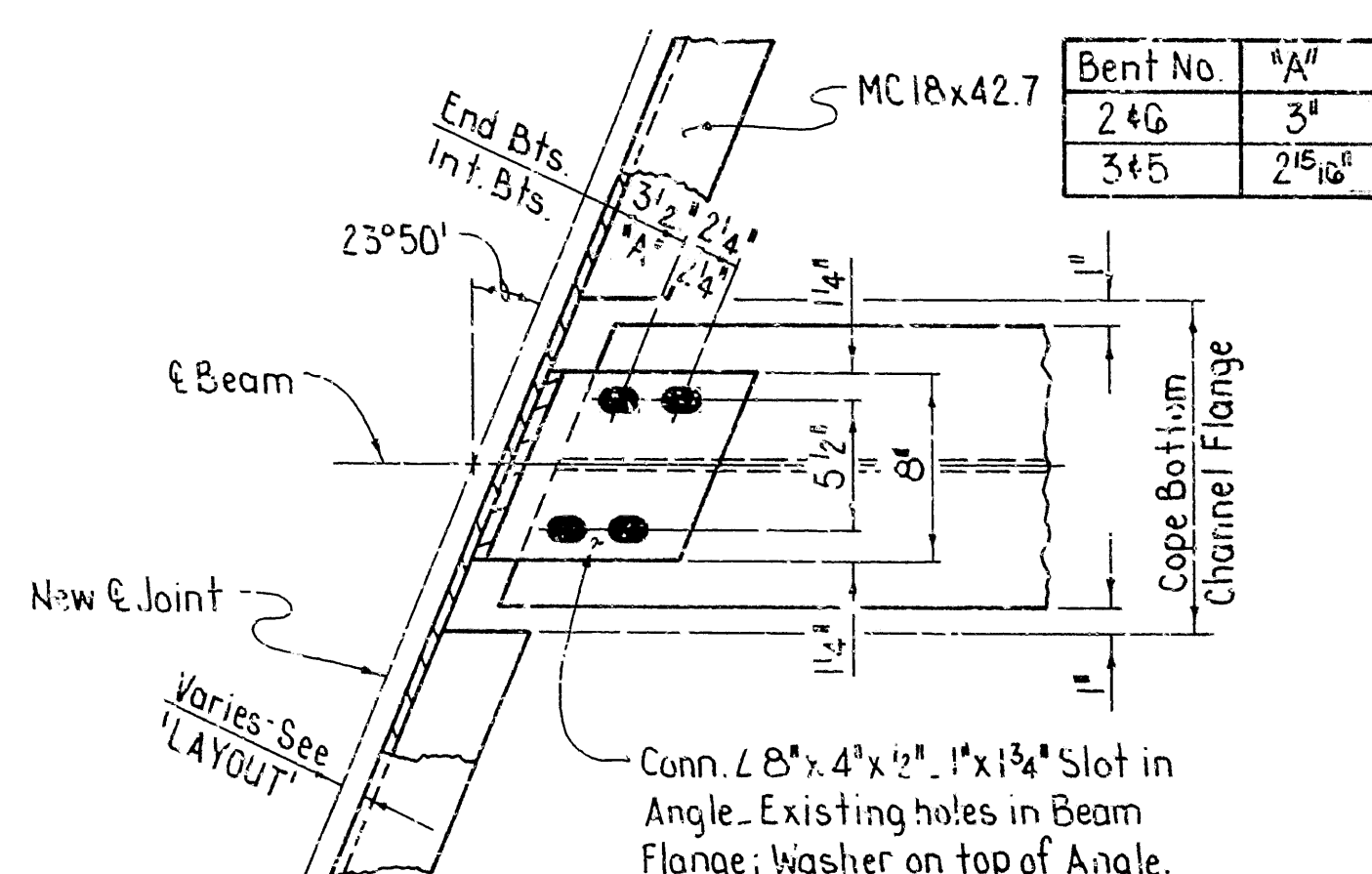
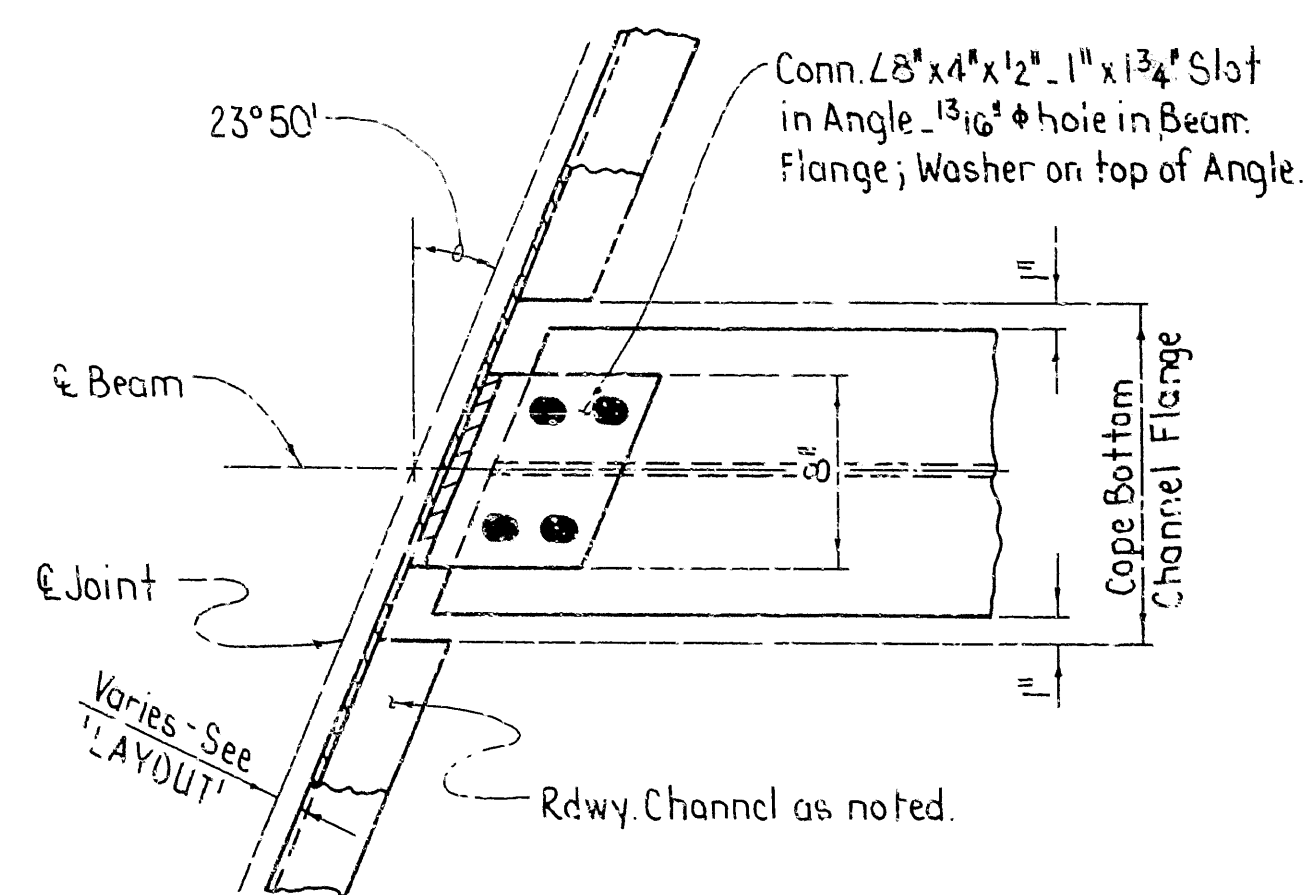
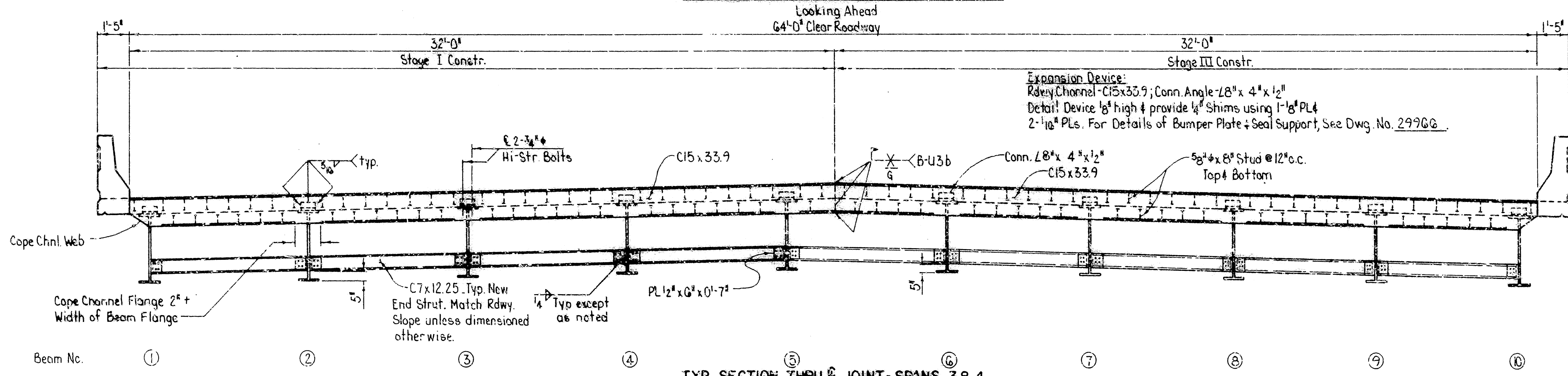
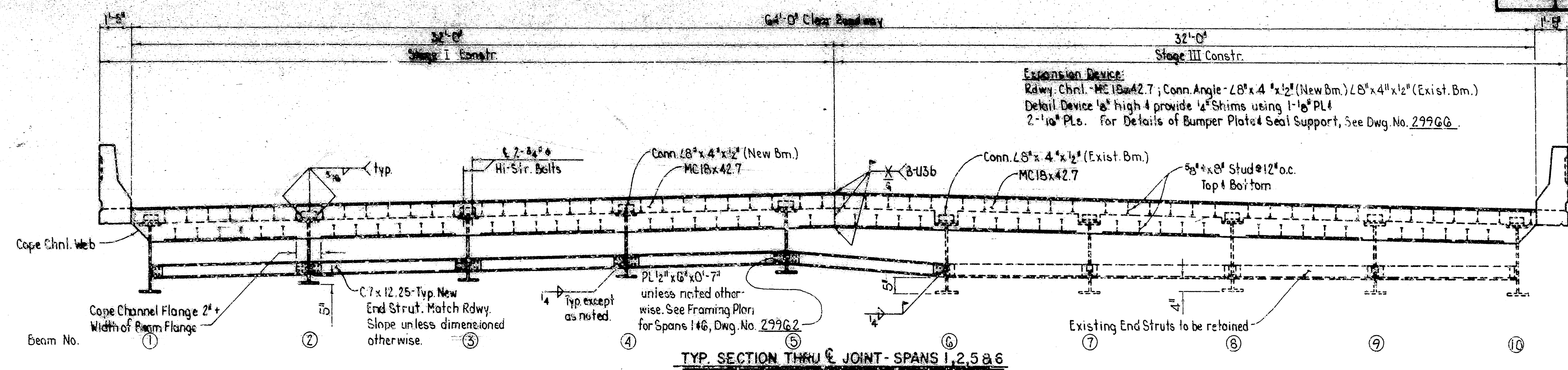
DRAWN BY: KDH DATE: 11 FEB 88  
CHECKED BY: C.J.F. DATE: 8-1-88  
DESIGNED BY: D.H.P. DATE: 8-16-88  
SCALE: 3/8" = 1' or as noted.

Viral Pinkerton  
BRIDGE ENGINEER

BRIDGE NO. 3130R DRAWING NO. 29960



NO.	DATE	BY	CHKD.	APP'D.	REV.
1	8-1-88	C.J.F.			
2	2-16-88	D.H.P.			
3					
4					
5					
6					
7					
8					
9					
10					



For 'GENERAL NOTES', See Dwg. Nos. 299G5 & 299G6.

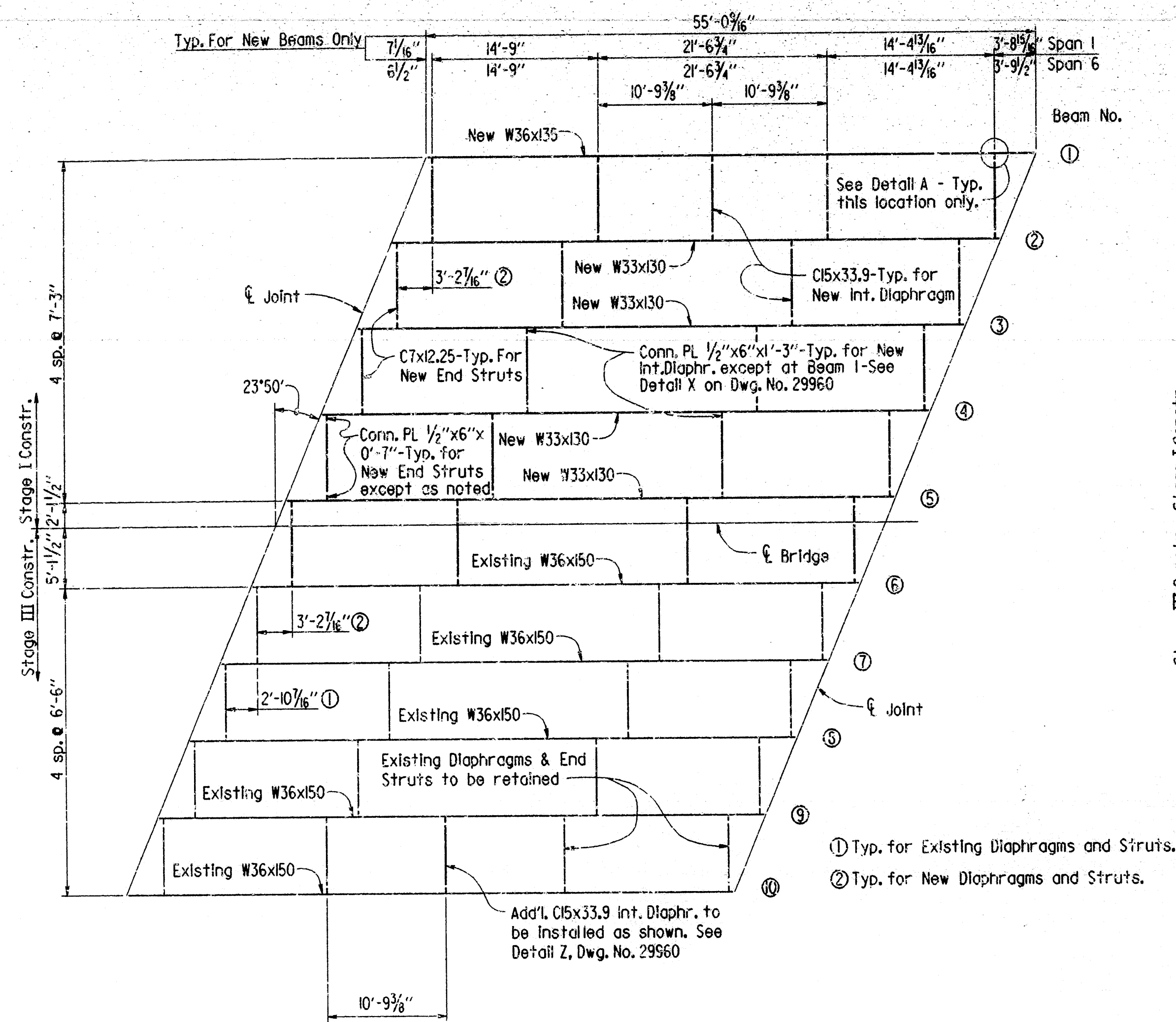
SHEET 2 OF 7  
 DETAILS OF W-BEAM SPANS  
 7TH STREET  
 ROUTE SEC.  
 ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.  
 DRAWN BY: KDH DATE: 29 FEB 88  
 CHECKED BY: C.J.F. DATE: 8-1-88  
 DESIGNED BY: D.H.P. DATE: 2-16-88  
 SCALE: 3/8\"/>

*Viral Pinkerton*  
 BRIDGE ENGINEER

BRIDGE NO. 3130R DRAWING NO. 2996I

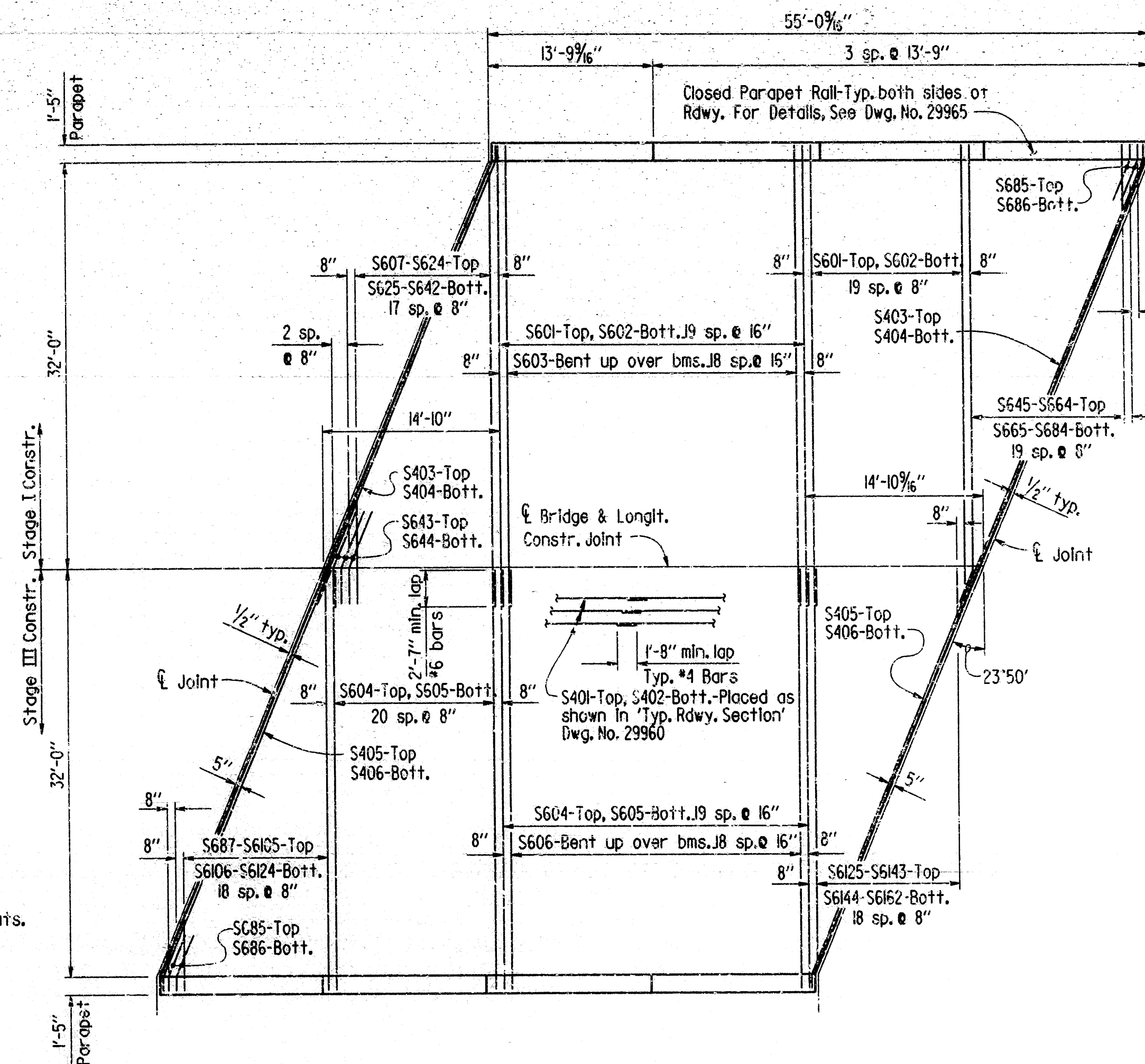


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		R100C8	86	235
① 3130R - SPAN DETAILS - 29962								



FRAMING PLAN - SPANS 1 & 6

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

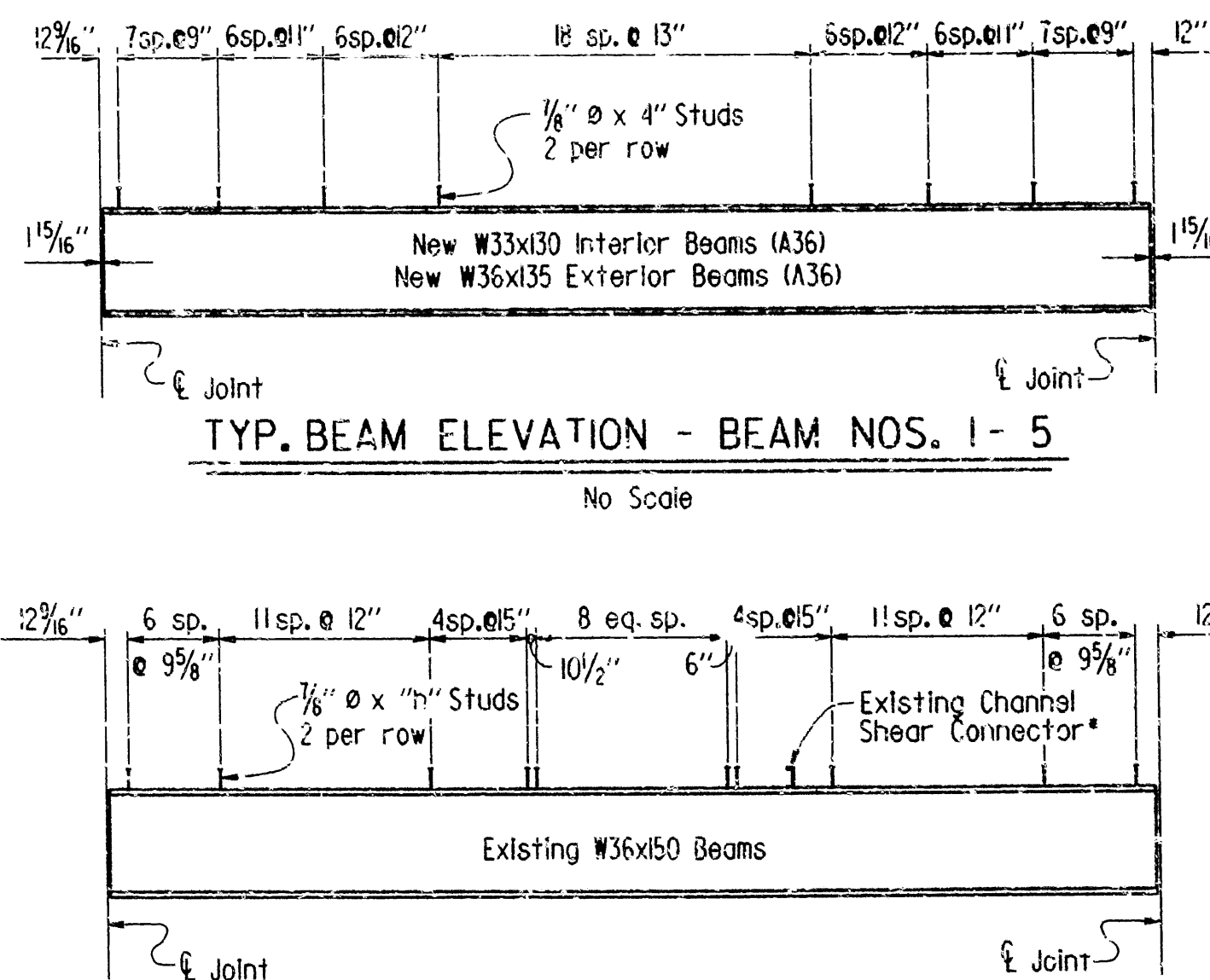


REINFORCING PLAN - SPANS 1 & 6

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

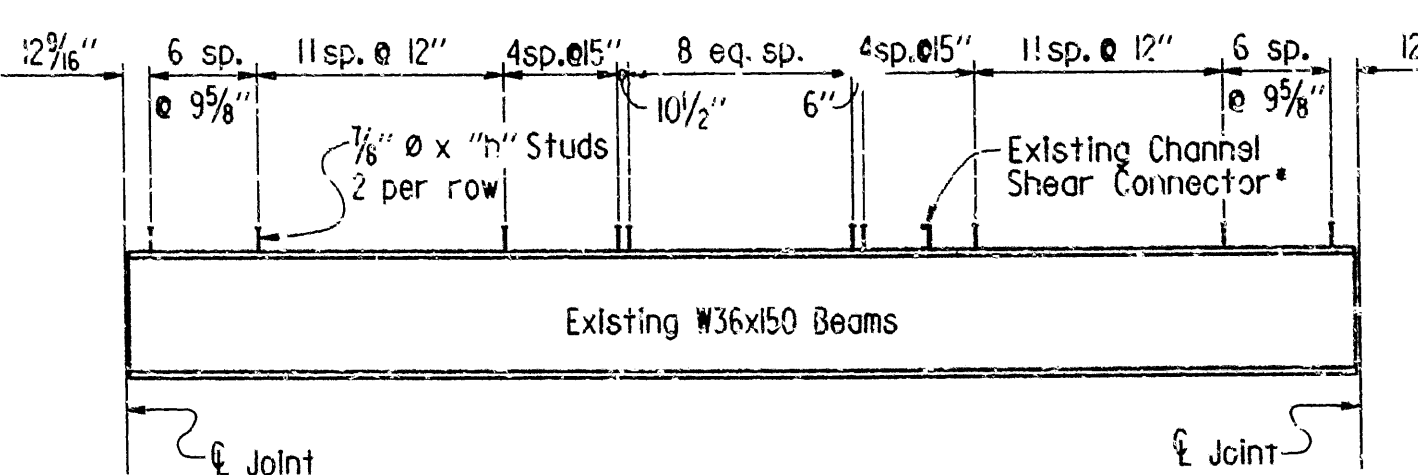
BAR LIST - PER SPAN

MARK	NO.	REOD.	LENGTH	P.D.	BENDING DIAGRAMS
S401*	112		28'-2"	Str.	
S402	192		28'-2"	Str.	
P401	112		5'-6"	2***	
P402	112		5'-6"	2***	
P403	48		13'-4"	Str.	
S601*	40		36'-0"	Str.	
S602	40		36'-0"	Str.	
S603*	19		36'-11"	4 1/2***	
S604*	41		33'-1"	Str.	
S605	41		33'-1"	Str.	
S606*	19		34'-2"	4 1/2***	
S607-S624*	1 ea.		Var. 8'-8" to 34'-4"	Str.	
S625-S642	1 ea.		Var. 7'-9" to 33'-5"	Str.	<p>*These bars are to be Epoxy Coated.</p>
S643*	3		7'-8"	4 1/2"	
S644	3		7'-8"	4 1/2"	
S645-S664*	1 ea.		Var. 6'-0" to 34'-8"	Str.	
S665-S684	1 ea.		Var. 6'-0" to 34'-8"	Str.	<p>**For these Bending Diagrams, see Dwg. No. 29965</p> <p>Note: At the Contractor's option, two straight #6 bars may be substituted for bars S603 &amp; S606 with the top bar epoxy coated. Payment for reinforcing will be based on the weight of bars S603 &amp; S606.</p>
S685*	4		4'-9"	4 1/2"	
S686	4		4'-9"	4 1/2"	
S687-S6105*	1 ea.		Var. 5'-11" to 32'-8"	Str.	
S6106-S6124	1 ea.		Var. 5'-11" to 32'-8"	Str.	<p>Note: At the Contractor's option, two straight #6 bars may be substituted for bars S603 &amp; S606 with the top bar epoxy coated. Payment for reinforcing will be based on the weight of bars S603 &amp; S606.</p>
S6125-S6143*	1 ea.		Var. 4'-4" to 3'-3"	Str.	
S6144-S6162	1 ea.		Var. 4'-4" to 3'-3"	Str.	
S403*	2		38'-0"	3"	
S404	2		38'-0"	3"	<p>Dimensions are cut out of out of bars.</p>
S405*	2		36'-2"	3"	
S406	2		36'-2"	3"	



TYP. BEAM ELEVATION - BEAM NOS. 1-5

No Scale



TYP. BEAM ELEVATION - BEAM NOS. 6-9

No Scale

Note: No new shear connectors required for Existing Beam No. 10.

\*The New 1/8" x 4" Stud shall be placed to miss the existing channel shear connectors.

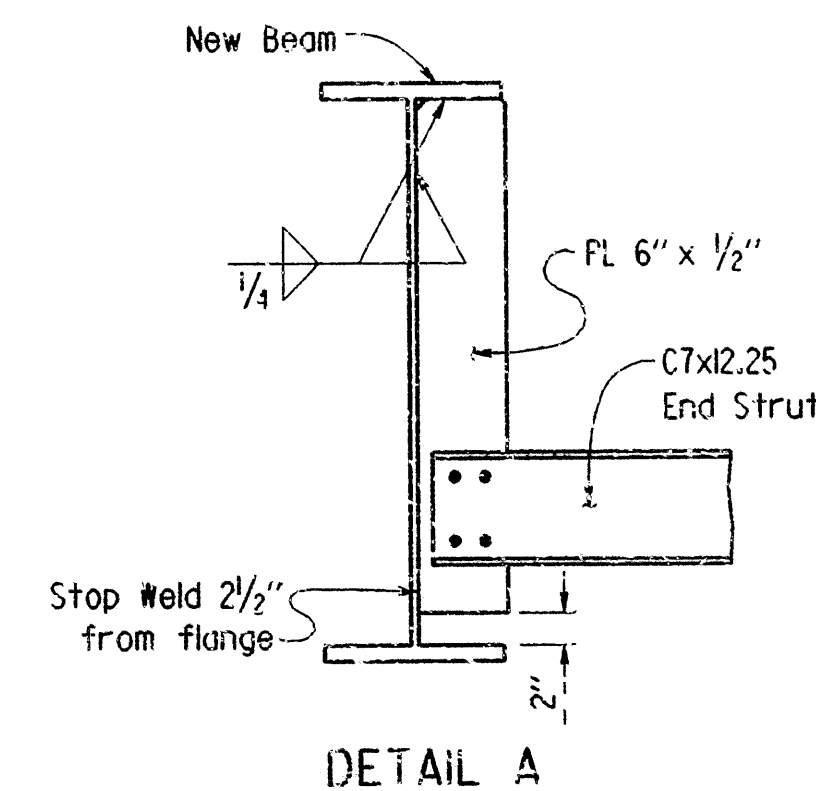
SHEAR CONNECTOR TABLE

Beam Number	Shear Connector Height - "H"
6	10"
7	8"
8	5"
9	4"

For Details of Shear Connectors and Shear Connector notes, See Dwg. No. 29965

DEAD LOAD DEFLECTIONS

Beam Number	Structural Steel		Structural Steel + Slab		Structural Steel + Slab + Parapet Rail	
	1/4 Pt.	1/2 Pt.	1/4 Pt.	1/2 Pt.	1/4 Pt.	1/2 Pt.
New-No. 1	1/16"	1/8"	3/16"	1/2"	3/8"	1/2"
New-No. 2	1/8"	1/8"	3/16"	13/16"	5/8"	7/8"
New-No. 3	1/8"	1/8"	3/16"	13/16"	5/8"	7/8"
New-No. 4	1/8"	1/8"	3/16"	13/16"	5/8"	7/8"
New-No. 5	1/8"	1/8"	1/2"	11/16"	9/16"	13/16"
Existing-No. 6	1/16"	1/8"	3/16"	5/8"	1/2"	11/16"
Existing-No. 7	1/16"	1/8"	3/16"	5/8"	7/16"	5/8"
Existing-No. 8	1/16"	1/8"	3/16"	3/8"	7/16"	5/8"
Existing-No. 9	1/16"	1/8"	3/16"	3/8"	7/16"	5/8"
Existing-No. 10	1/16"	1/8"	3/16"	1/2"	3/8"	1/2"



DETAIL A

Scale: 1" = 1'-0"

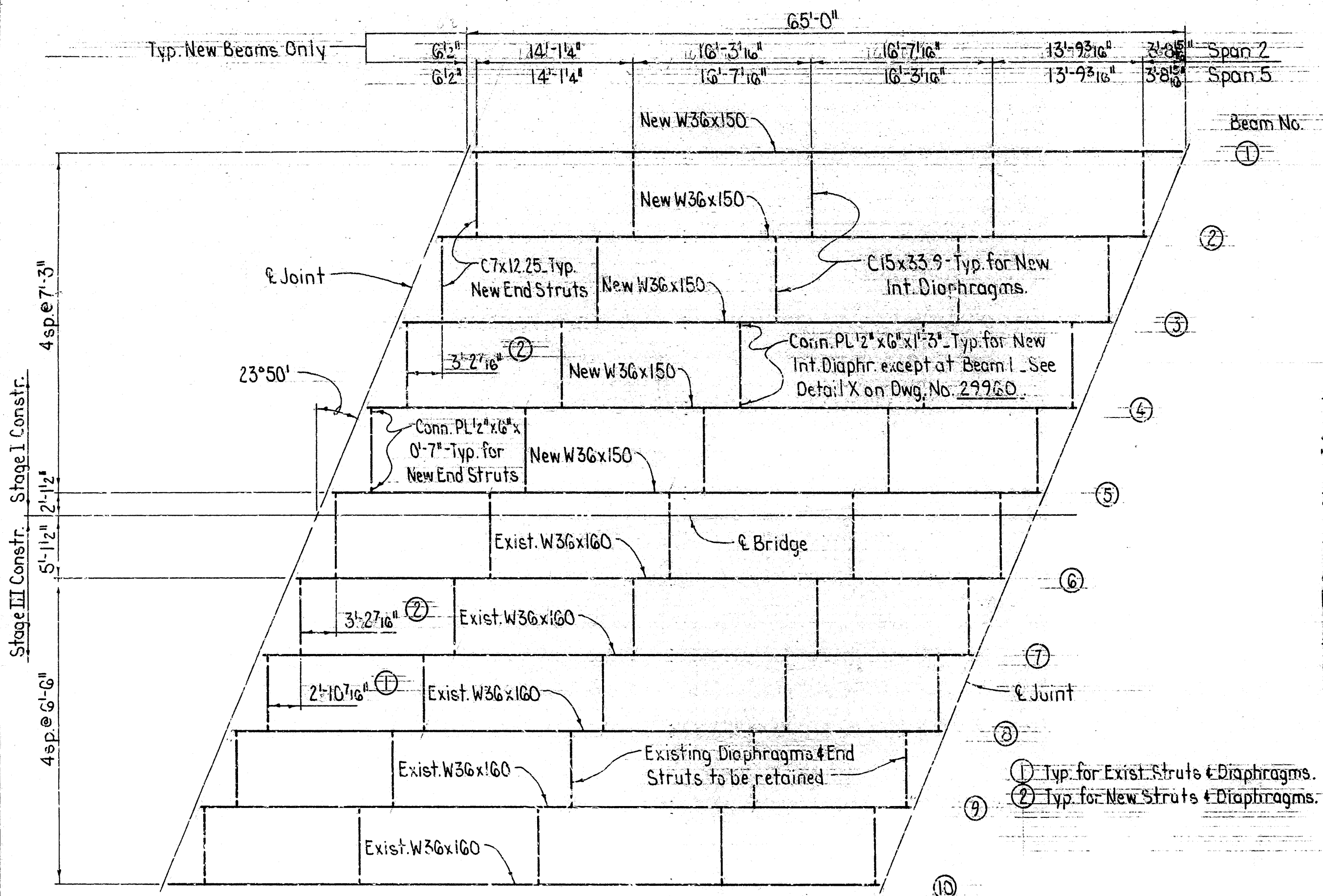
For GENERAL NOTES, See Dwg. Nos. 29965 & 29966.

SHEET 3 OF 7  
DETAILS OF W-BEAM SPANS  
7TH STREET  
ROUTE SEC.  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: KDH DATE: 15 MAR 88  
CHECKED BY: C.J.F. DATE: 6-18-88  
DESIGNED BY: D.H.P. DATE: 2-16-88  
BRIDGE NO. 3130R DRAWING NO. 29962



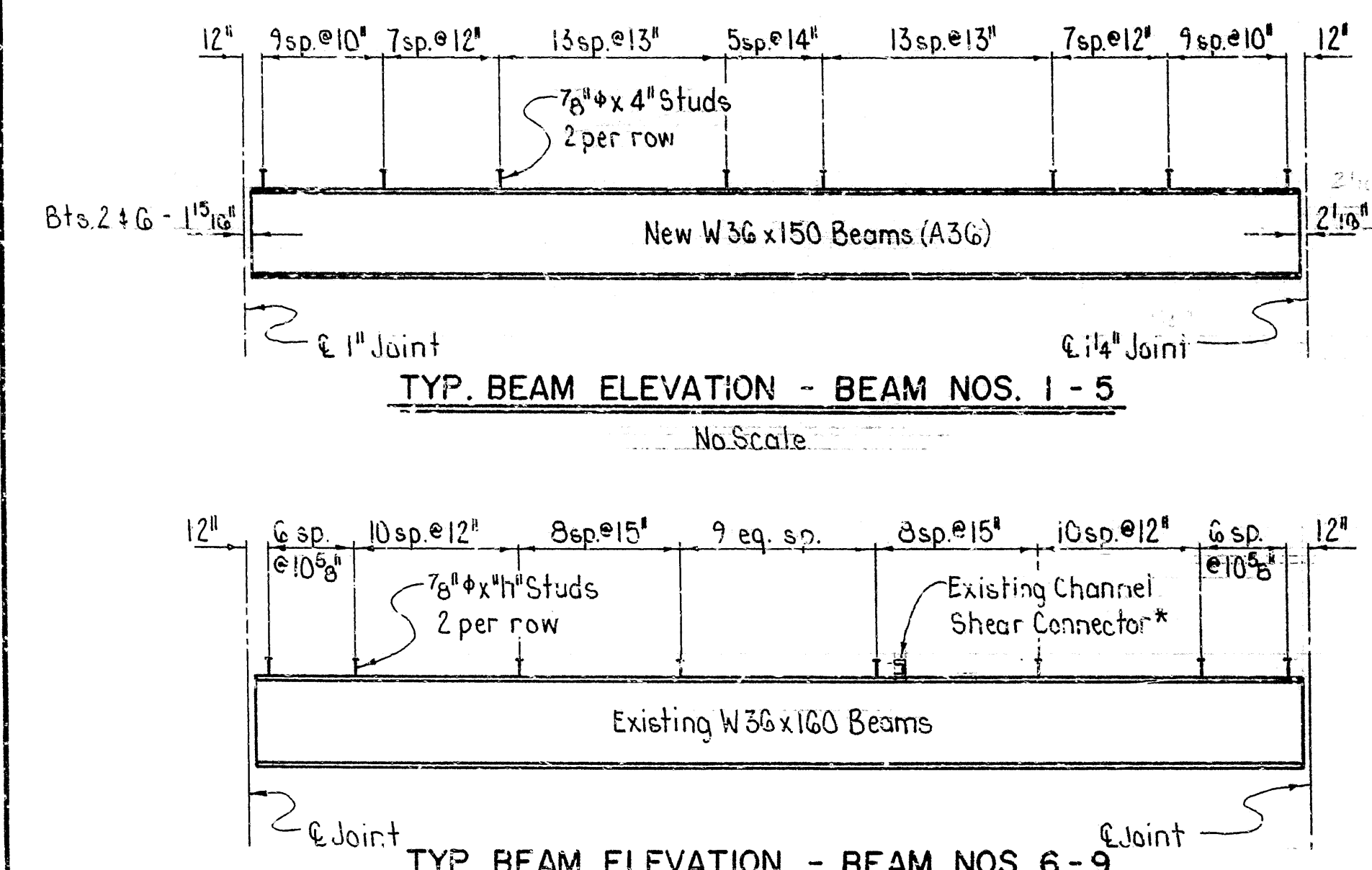
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	R10008	87	235	

3130R-SPAN DETAILS-29963



FRAMING PLAN - SPANS 2 & 5

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



TYP. BEAM ELEVATION - BEAM NOS. 1-5

No Scale

TYP. BEAM ELEVATION - BEAM NOS. 6-9

Note: No new shear connectors required for Existing Beam No. 10.  
\*The New 7/8" x 4" Studs shall be placed to miss the existing channel shear connectors.

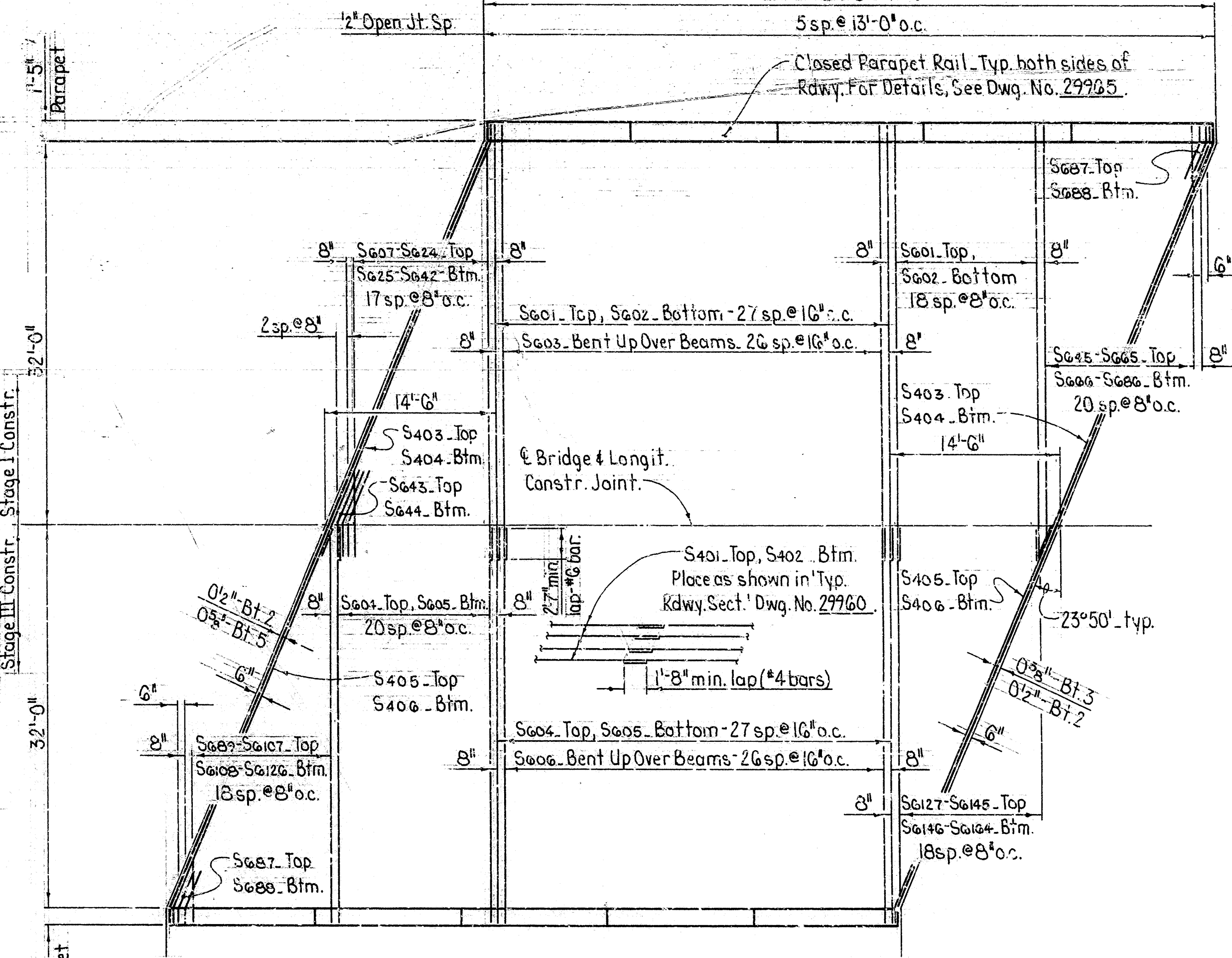
SHEAR CONNECTOR TABLE

Beam Number	Shear Connector Height - "h"
6	10"
7	8"
8	5"
9	4"

For Details of Shear Connectors and Shear Connector Notes, See Dwg. No. 29965.

DEAD LOAD DEFLECTIONS

Beam Number	Structural Steel		Structural Steel + Slab		Structural Steel + Slab + Parapet Rail	
	1/4 Pt.	1/2 Pt.	1/4 Pt.	1/2 Pt.	1/4 Pt.	1/2 Pt.
New-No. 1	1/8"	3/16"	9/16"	13/16"	5/8"	7/8"
New-No. 2	3/16"	1/4"	7/8"	13/16"	15/16"	1 1/4"
New-No. 3	3/16"	1/4"	7/8"	13/16"	15/16"	1 1/4"
New-No. 4	3/16"	1/4"	7/8"	13/16"	15/16"	1 1/4"
New-No. 5	3/16"	1/4"	3/4"	1 1/4"	7/8"	1 3/16"
Existing-No. 6	3/16"	1/4"	3/4"	1 1/4"	7/8"	1 1/8"
Existing-No. 7	3/16"	1/4"	3/4"	1 1/4"	7/8"	1 1/8"
Existing-No. 8	3/16"	1/4"	3/4"	1 1/4"	7/8"	1 1/8"
Existing-No. 9	3/16"	1/4"	1 1/8"	1 1/2"	7/8"	1 1/8"
Existing-No. 10	1/8"	3/16"	5/8"	13/16"	5/8"	7/8"



REINFORCING PLAN - SPANS 2 & 5

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

\* These bars are to be Epoxy Coated

\*\* For these Pending Diagrams, See Dwg. No. 29965.

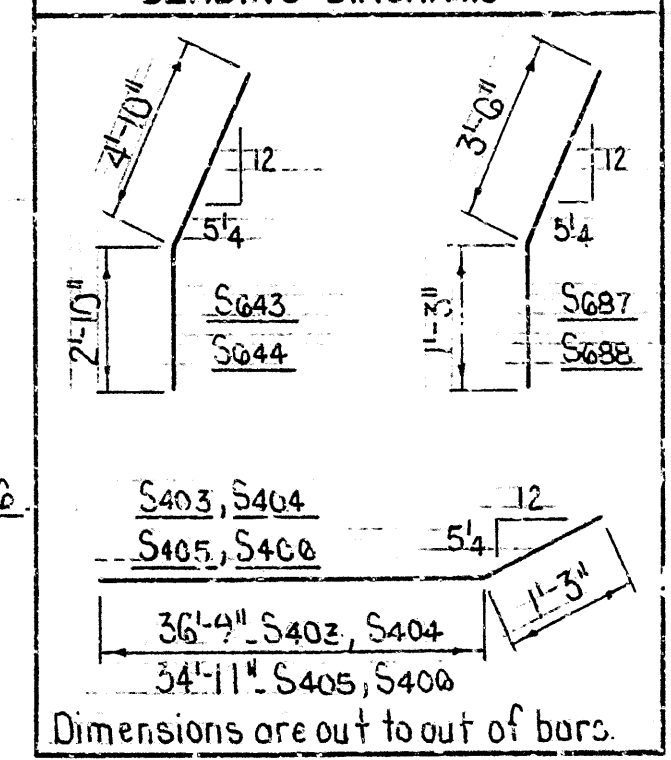
Note: At the Contractor's option, two straight #6 bars may be substituted for bars S403 & S406 with the top bar epoxy coated. Payment for reinforcing will be based on the weight of bars S403 & S406.

For GENERAL NOTES, See Dwg. Nos. 29965 & 29966.

BAR LIST-PER SPAN

MARK	NO.	REQD.	LENGTH	P.D.
S401*	112		33'-2"	Str.
S402	192		33'-2"	Str.
P401	130		5'-6"	21**
P402	130		5'-6"	21**
P403	60		12'-6"	Str.
S601*	47		36'-0"	Str.
S602	47		36'-0"	Str.
S603*	27		36'-11"	4 1/2**
S604*	49		33'-1"	Str.
S605	49		33'-1"	Str.
S606*	27		34'-2"	4 1/2**
S607-	1ea.		Var. 7'-11" to 33'-7"	Str.
S625-	1ea.		Var. 7'-11" to 33'-7"	Str.
S642			7'-8"	4 1/2"
S643*	3		7'-8"	4 1/2"
S644	3		7'-8"	4 1/2"
S645-	1ea.		Var. 5'-2" to 35'-4"	Str.
S665*			Var. 5'-2" to 35'-4"	Str.
S686-	1ea.		4'-9"	4 1/2"
S687*	4		4'-9"	4 1/2"
S688	4		4'-9"	4 1/2"
S689-	1ea.		Var. 5'-2" to 32'-4"	Str.
S610*			Var. 5'-2" to 32'-4"	Str.
S6126-	1ea.		Var. 3'-5" to 30'-7"	Str.
S6127-	1ea.		Var. 3'-5" to 30'-7"	Str.
S6145*			Var. 3'-5" to 30'-7"	Str.
S6146-	1ea.		38'-0"	3'
S403*	2		38'-0"	3'
S404	2		36'-2"	3'
S405*	2		36'-2"	3'
S406	2		36'-2"	3'

BENDING DIAGRAMMS



SHEET 4 OF 7  
DETAILS OF W-BEAM SPANS  
7TH STREET

ROUTE SEC.  
ARKANSAS STATE HIGHWAY COMMISSION

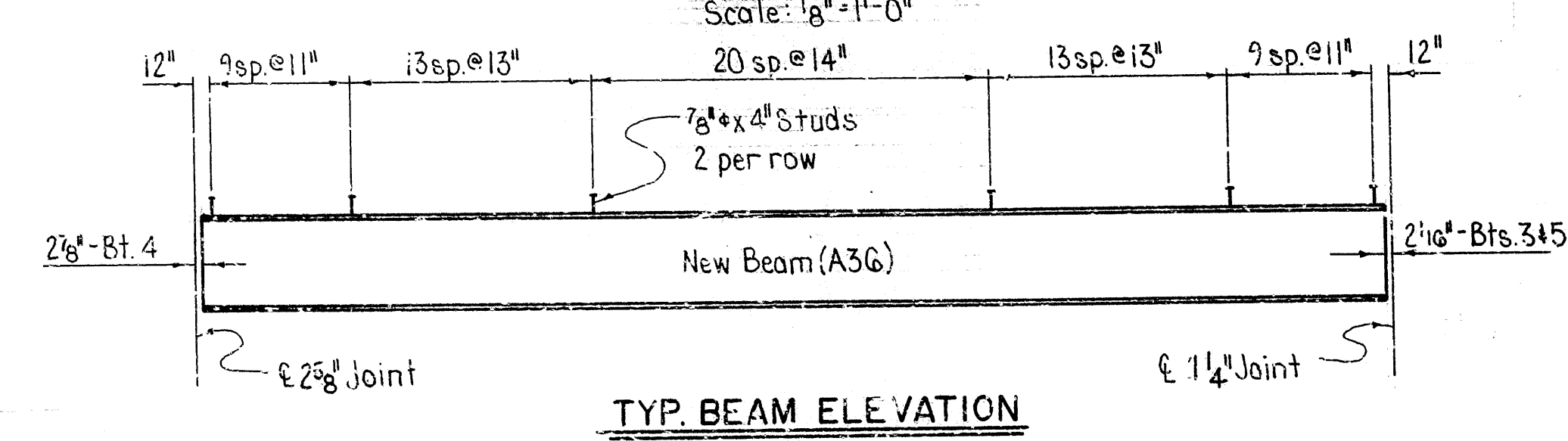
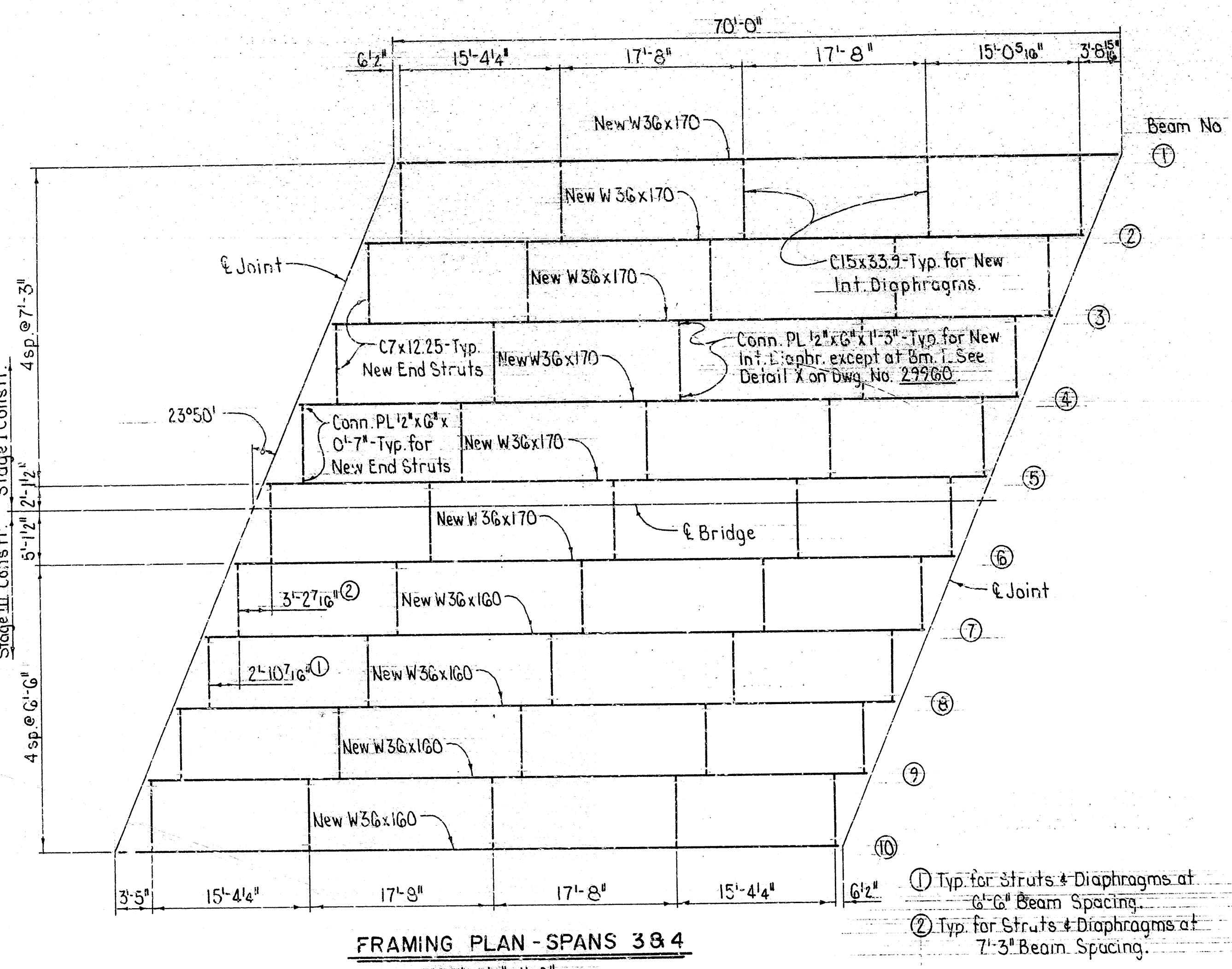
LITTLE ROCK, ARK.  
DRAWN BY: KDH DATE: 17 MAR 88  
CHECKED BY: CJF DATE: 3-1-88  
DESIGNED BY: D.H.F. DATE: 2-16-88  
BRIDGE NO. 3130R DRAWING NO. 29963



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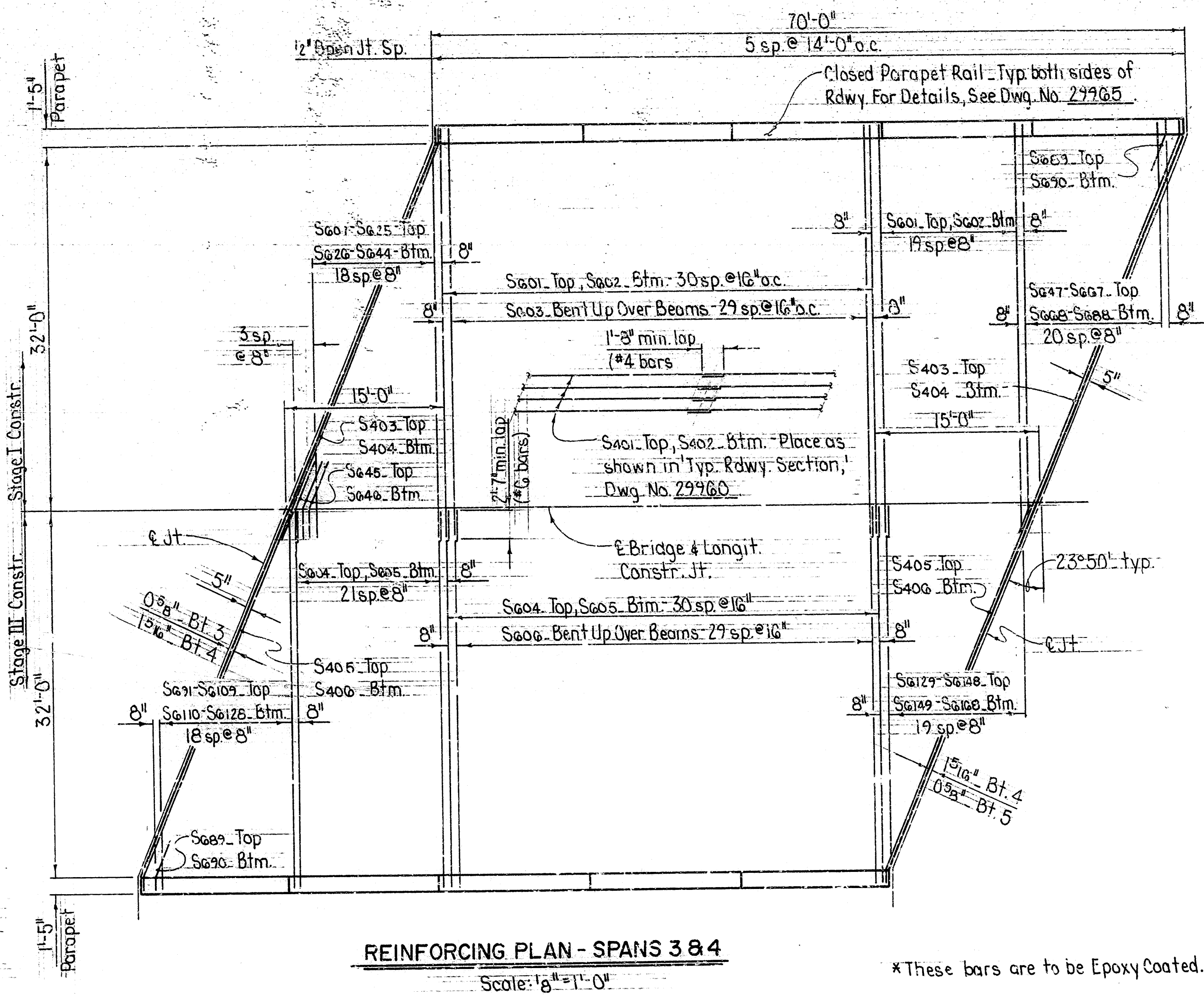
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		R10008	88	235

① 3130R - SPAN DETAILS - 29964



For Details of Shear Connectors and Shear Connector Notes, See Dwg. No. 29965

DEAD LOAD DEFLECTIONS						
Beam Number	Structural Steel		Structural Steel + Slab		Structural Steel + Slab + Parapet Rail	
	1/4 Pt.	1/2 Pt.	1/4 Pt.	1/2 Pt.	1/4 Pt.	1/2 Pt.
1	3 1/16"	1 1/4"	1 1/16"	1"	3 1/4"	1 1/16"
2-4, 7-9	1 1/4"	5 1/16"	1"	1 7/16"	1 1/16"	1 1/2"
5	1 1/4"	5 1/16"	7/8"	1 3/16"	1"	1 7/16"
6	1 1/4"	5 1/16"	1"	1 3/8"	1 1/16"	1 7/16"
10	3 1/16"	5 1/16"	7/8"	1 1/4"	1 5/16"	1 5/16"



\*These bars are to be Epoxy Coated.

\*\* For these Bending Diagrams, See Dwg. No. 29965.

Note: At the Contractor's option, two straight #6 bars may be substituted for bars S403 & S406, with the top bar epoxy coated. Payment for reinforcing will be based on the weight of bars S403 & S406.

For 'GENERAL NOTES', See Dwg. Nos. 29965 & 29966.

BAR LIST - PER SPAN			
MARK	NO. REQ'D	LENGTH	P.D.
S401 *	112	35'-7"	Str.
S402	192	35'-7"	Str.
P401	140	5'-6"	2" **
P402	140	5'-6"	2" **
P405	60	13'-6"	Str.
S401 *	51	36'-0"	Str.
S402	51	36'-0"	Str.
S403 *	30	36'-1 1/4"	1 1/2" **
S404 *	53	33'-1"	Str.
S405	53	33'-1"	Str.
S406 *	30	34'-2"	4 1/2" **
S407	1 ea.	Var. 7'-5" to 34'-7"	Str.
S408 *	1 ea.	Var. 7'-5" to 34'-7"	Str.
S409 *	3	7'-8"	4 1/2"
S410 *	3	7'-8"	4 1/2"
S411 *	1 ea.	Var. 4'-8" to 34'-10"	Str.
S412 *	1 ea.	Var. 4'-8" to 34'-10"	Str.
S413 *	1 ea.	Var. 4'-8" to 34'-10"	Str.
S414 *	2	4'-9"	4 1/2"
S415 *	2	4'-9"	4 1/2"
S416 *	1 ea.	Var. 4'-8" to 31'-10"	Str.
S417 *	1 ea.	Var. 4'-8" to 31'-10"	Str.
S418 *	1 ea.	Var. 2'-11" to 31'-7"	Str.
S419 *	1 ea.	Var. 2'-11" to 31'-7"	Str.
S420 *	2	38'-0"	3"
S421 *	2	38'-0"	3"
S422 *	2	36'-2"	3"
S423 *	2	36'-2"	3"

