

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	TENN.	1 A 2	1930	44	200

DIMENSIONS AND QUANTITIES - INTERMEDIATE SPANS ONLY

CLEAR SPAN FEET	TOTAL LENGTH	DIMENSIONS					STIRRUP SPACING		QUANTITIES		
		X	Y	Y ₁	Y ₂	Z	EXTERIOR BEAM STIRRUPS M	INTERIOR BEAM STIRRUPS N	CLASS A CONCRETE CU YDS	REINF. STEEL LBS.	STRUCT. STEEL LBS.
28	31'-0"	3'-0"	1'-6"	1'-9"	1'-9"	1'-9"	9 SPA @ 1'-0"	18 SPA @ 7"	32.5	7287	398
30	33'-0"	3'-2"	1'-10"	1'-11"	1'-11"	1'-11"	9 " " " "	18 " " " "	35.7	7931	398
32	35'-0"	3'-4"	2'-0"	2'-1"	2'-1"	2'-1"	9 " " " "	18 " " " "	39.1	8530	398
34	37'-0"	3'-6"	2'-2"	2'-3"	2'-3"	2'-3"	9 " " " "	18 " " " "	42.6	9265	398
36	39'-0"	3'-8"	2'-4"	2'-5"	2'-5"	2'-5"	9 " " " "	18 " " " "	46.2	10032	398
38	41'-0"	3'-10"	2'-6"	2'-7"	2'-7"	2'-7"	9 " " " "	18 " " " "	50.0	10582	398
40	43'-0"	4'-0"	2'-8"	2'-9"	2'-9"	2'-9"	9 " " " "	18 " " " "	53.9	11467	398

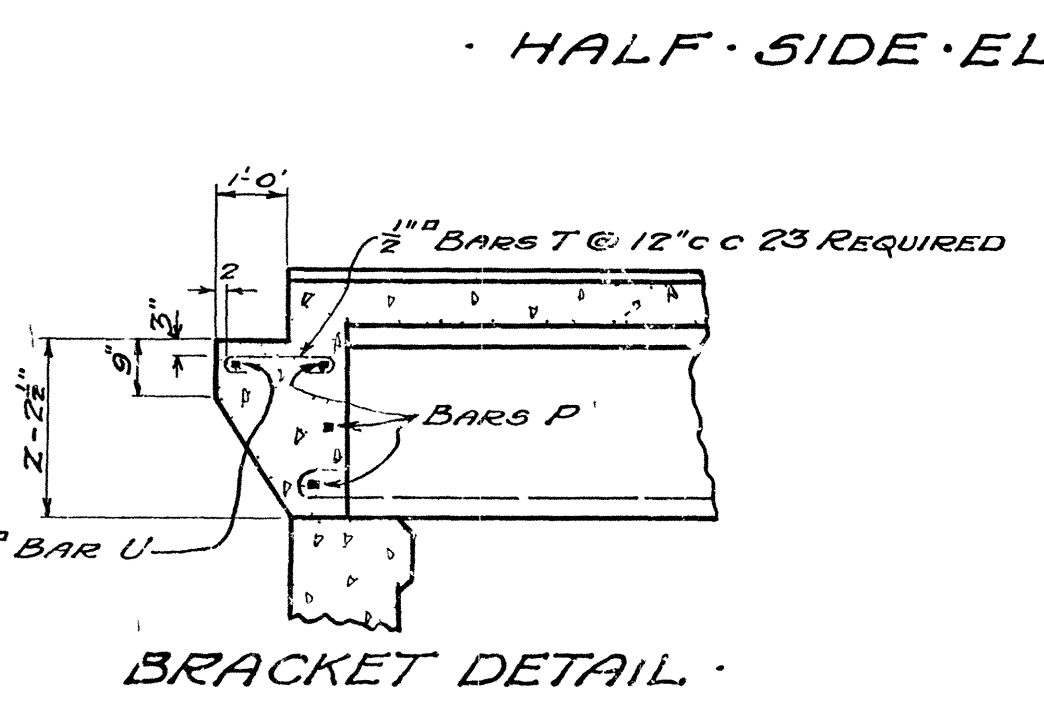
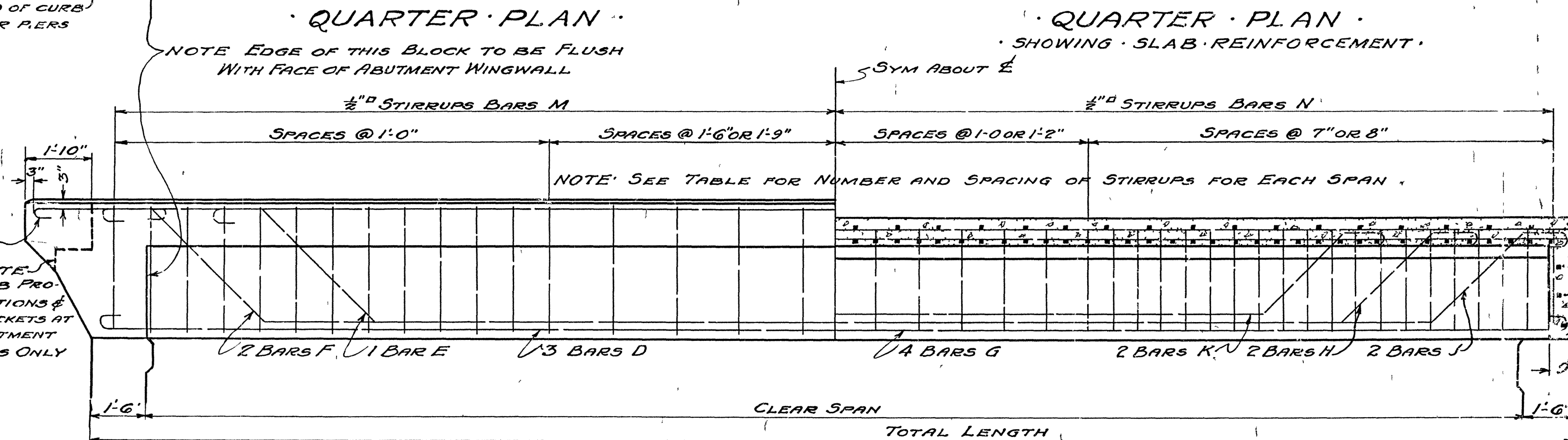
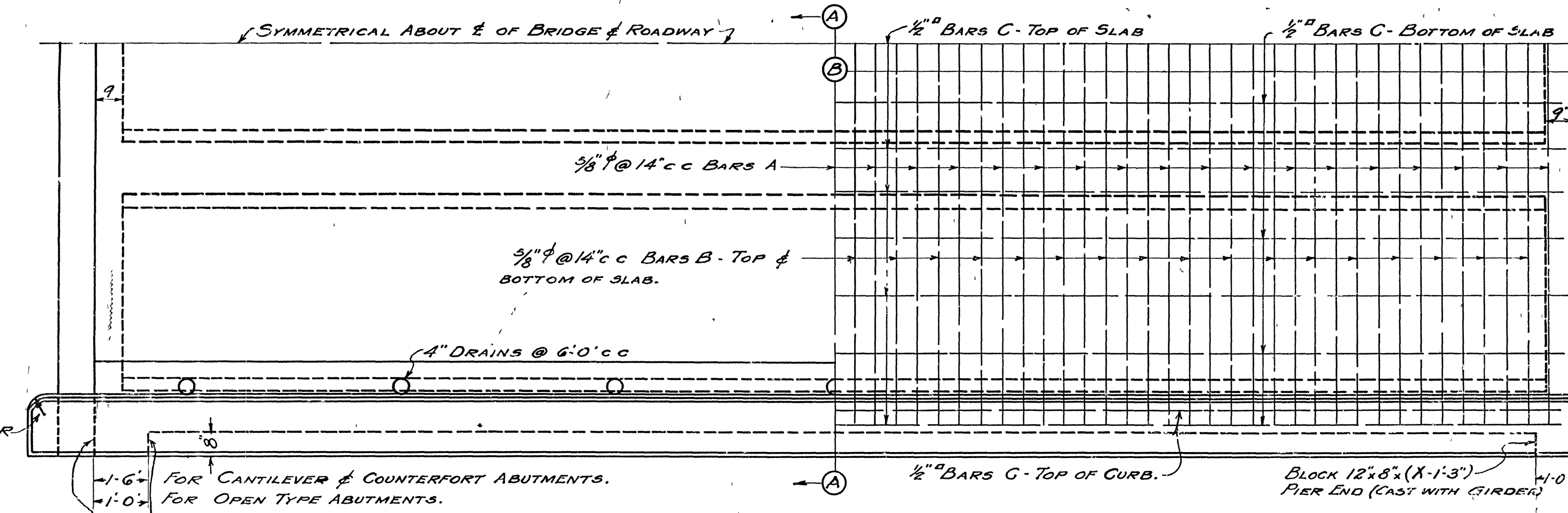
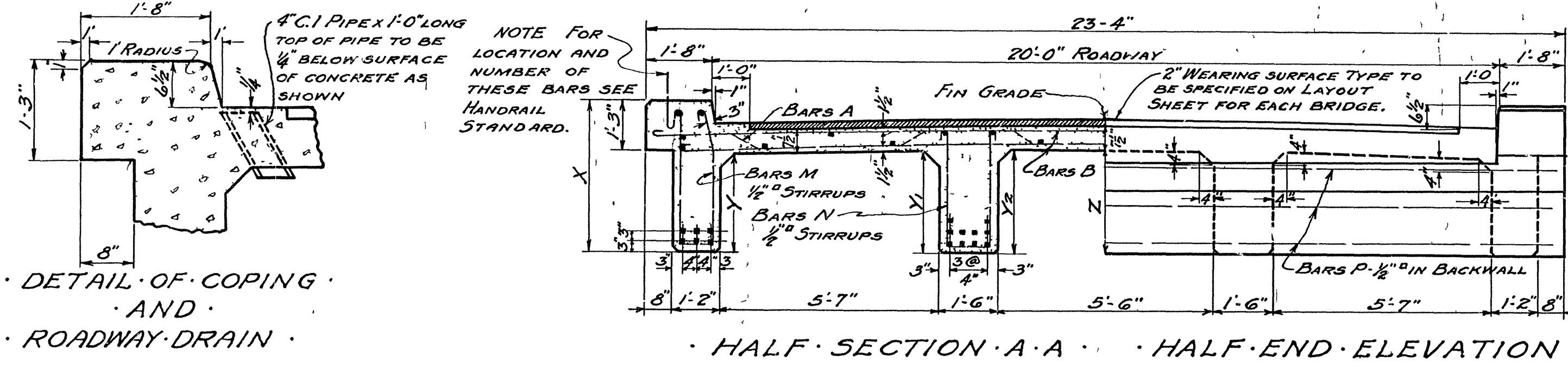
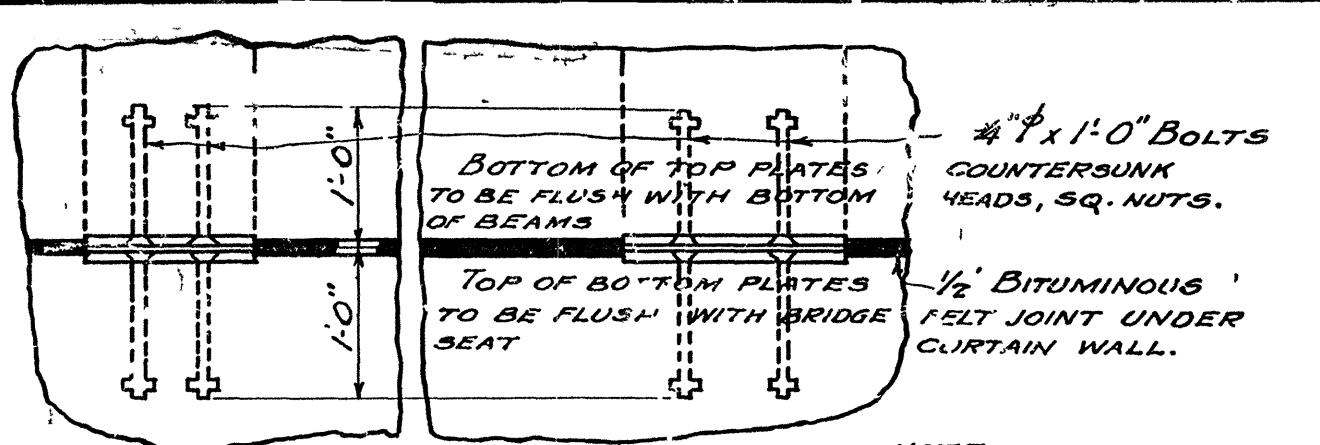
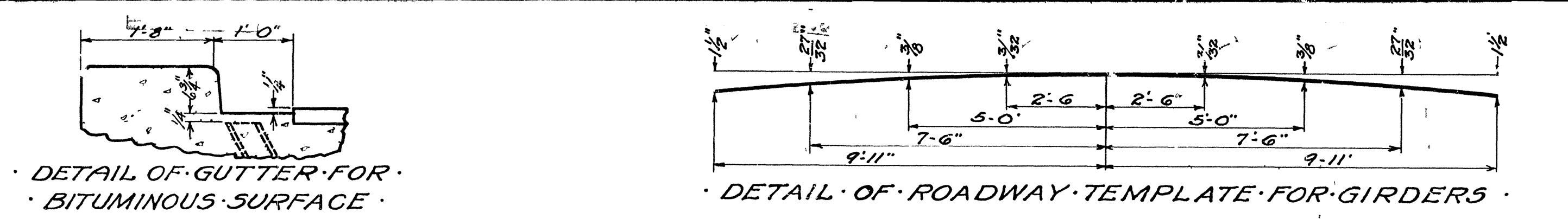
NOTE COST OF C I DRAINS AND OF ALL BITUMINOUS FELT JOINTS SHALL BE INCLUDED IN THE PRICE PER CU YD OF CLASS 'A' CONCRETE.

BILL OF STEEL FOR ONE INTERMEDIATE SPAN

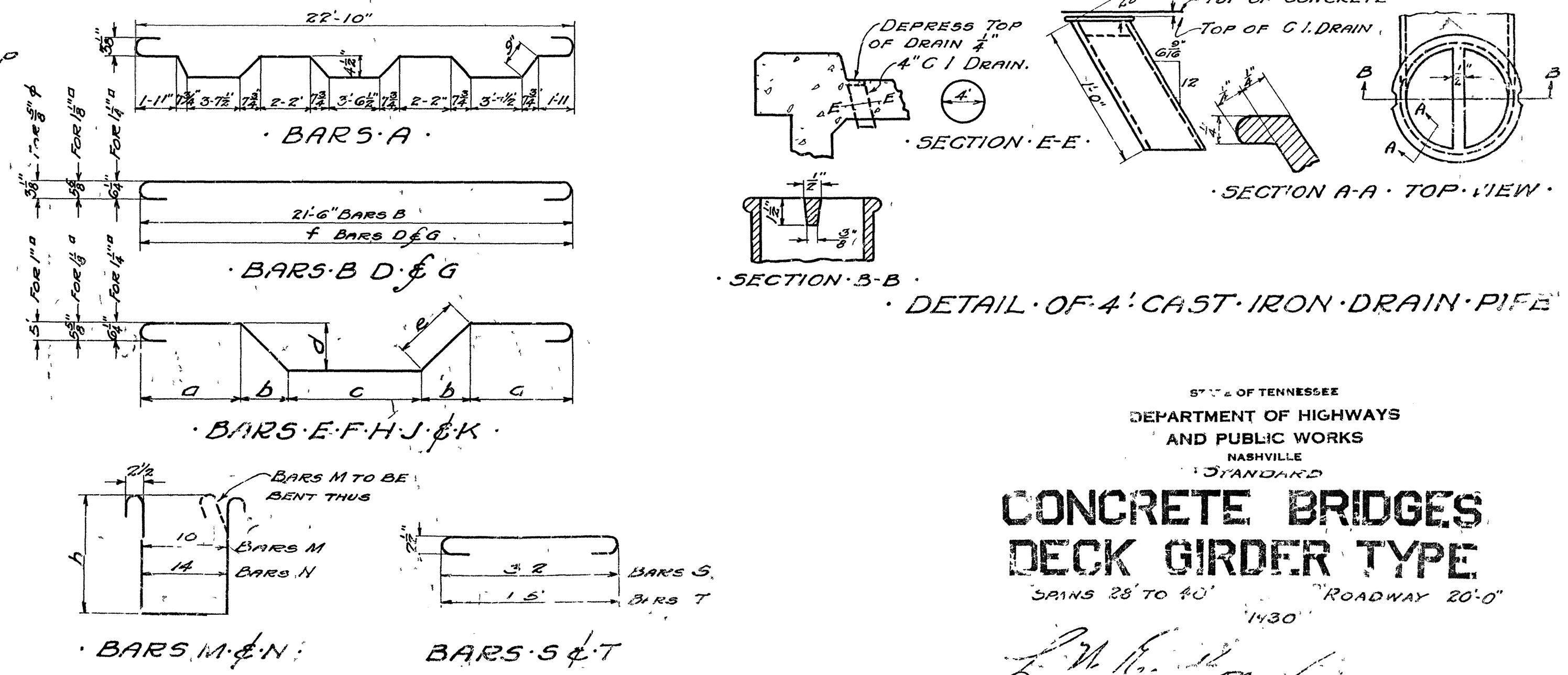
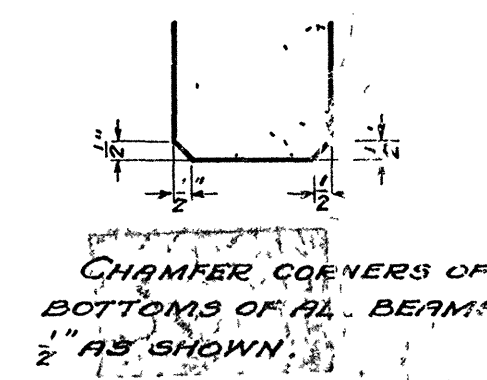
CLEAR SPAN FEET	BARS A	BARS B	BARS C	BARS D	BARS E	BARS F	BARS G	BARS H	BARS J	BARS K	BARS M	BARS N	BACKWALL	ESTIMATED QUANTITIES REQUIRED AT EACH ABUTMENT		
														CONCRETE CULYDS	LBS	
28	27	24'-6"	52	22'-6"	21	30'-6"	6	18'-6"	2	18'-6"	8	18'-6"	8	23'-0"	1.4	83
30	27	24'-6"	56	22'-6"	21	32'-6"	6	18'-6"	2	18'-6"	8	18'-6"	8	23'-0"	1.5	83
32	29	24'-6"	60	22'-6"	21	34'-6"	6	18'-6"	2	18'-6"	8	18'-6"	8	23'-0"	1.7	83
34	31	24'-6"	64	22'-6"	21	36'-6"	6	18'-6"	2	18'-6"	8	18'-6"	8	23'-0"	1.7	83
36	33	24'-6"	68	22'-6"	21	38'-6"	6	18'-6"	2	18'-6"	8	18'-6"	8	23'-0"	1.7	83
38	35	24'-6"	72	22'-6"	21	40'-6"	6	18'-6"	2	18'-6"	8	18'-6"	8	23'-0"	1.8	83
40	37	24'-6"	76	22'-6"	21	42'-6"	6	18'-6"	2	18'-6"	8	18'-6"	8	23'-0"	1.8	83

STEEL BENDING TABLE

CLEAR SPAN FEET	BARS D & G	BARS E					BARS F					BARS J					BARS K					BARS M	BARS N				
		a	b	c	d	e	a	b	c	d	e	a	b	c	d	e	a	b	c	d	e						
28	30'-6"	1'-3"	2'-3"	19'-0"	2'-3"	3'-2"	1'-3"	2'-3"	23'-6"	2'-3"	3'-2"	1'-3"	1'-8"	21'-4"	1'-8"	2'-4"	1'-3"	1'-8"	24'-8"	1'-8"	2'-4"	-	-	-	-	2'-8"	2'-1"
30	32'-6"	1'-3"	2'-5"	20'-4"	2'-5"	3'-5"	1'-3"	2'-5"	25'-2"	2'-5"	3'-5"	1'-3"	1'-10"	22'-8"	1'-10"	2'-7"	1'-3"	1'-10"	26'-4"	1'-10"	2'-7"	-	-	-	-	2'-10"	2'-3"
32	34'-6"	1'-3"	2'-7"	21'-8"	2'-7"	3'-7"	1'-3"	2'-7"	26'-10"	2'-7"	3'-7"	1'-3"	2'-0"	24'-0"	2'-0"	2'-10"	1'-3"	2'-0"	28'-0"	2'-0"	2'-10"	-	-	-	-	3'-0"	2'-4"
34	36'-6"	1'-3"	2'-9"	23'-0"	2'-9"	3'-10"	1'-3"	2'-9"	28'-6"	2'-9"	3'-10"	1'-3"	2'-2"	25'-4"	2'-2"	3'-0"	1'-3"	2'-2"	29'-8"	2'-2"	3'-0"	-	-	-	-	3'-2"	2'-7"
36	38'-6"	1'-3"	2'-11"	24'-4"	2'-11"	4'-1"	1'-3"	2'-11"	30'-2"	2'-11"	4'-1"	1'-3"	2'-4"	26'-8"	2'-4"	3'-3"	1'-3"	2'-4"	31'-4"	2'-4"	3'-3"	-	-	-	-	3'-4"	2'-11"
38	40'-6"	1'-3"	3'-1"	25'-8"	3'-1"	4'-4"	1'-3"	3'-1"	31'-10"	3'-1"	4'-4"	1'-3"	2'-6"	28'-0"	2'-6"	3'-6"	1'-3"	2'-6"	33'-0"	2'-6"	3'-6"	-	-	-	-	3'-6"	2'-11"
40	42'-6"	1'-3"	3'-3"	27'-0"	3'-3"	4'-7"	1'-3"	3'-3"	33'-6"	3'-3"	4'-7"	1'-3"	2'-8"	29'-4"	2'-8"	3'-9"	1'-3"	2'-8"	34'-8"	2'-8"	3'-9"	1'-3"	2'-5"	24'-6"	2'-5"	3'-8"	3'-1"



GENERAL NOTES
 SPECIFICATIONS STANDARD ROAD & BRIDGE
 SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS.
 CONCRETE SHALL BE CLASS 'A'.
 REINFORCING STEEL: SEE SPECIFICATIONS.
 ALL DIMENSIONS RELATING TO REINFORCEMENT ARE TO CENTERS OF BARS.
 FORMS AND FINISH: SEE SPECIFICATIONS.



CONCRETE BRIDGES DECK GIRDER TYPE

SPANS 28 TO 40' ROADWAY 20'-0"

SEE M-330-14

1-A-03

REVISED BRACKET DETAIL & CURB PROJECTION, 12-18-29. ADDED 20 LBS TO WEIGHT OF STRUCTURAL STEEL FOR COPPER P.S. 1-17-29

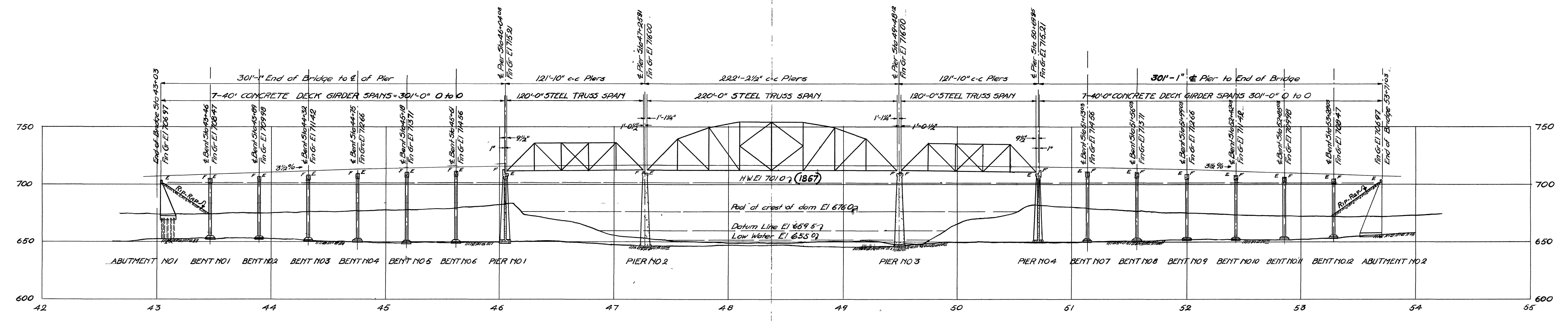
DESIGNED BY _____ DATE _____
 DRAWN BY _____ DATE _____
 TRACED BY *Meady Buchanan* DATE *April 1930*
 CHECKED BY _____ DATE _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	TENN.		19		

S B P #10

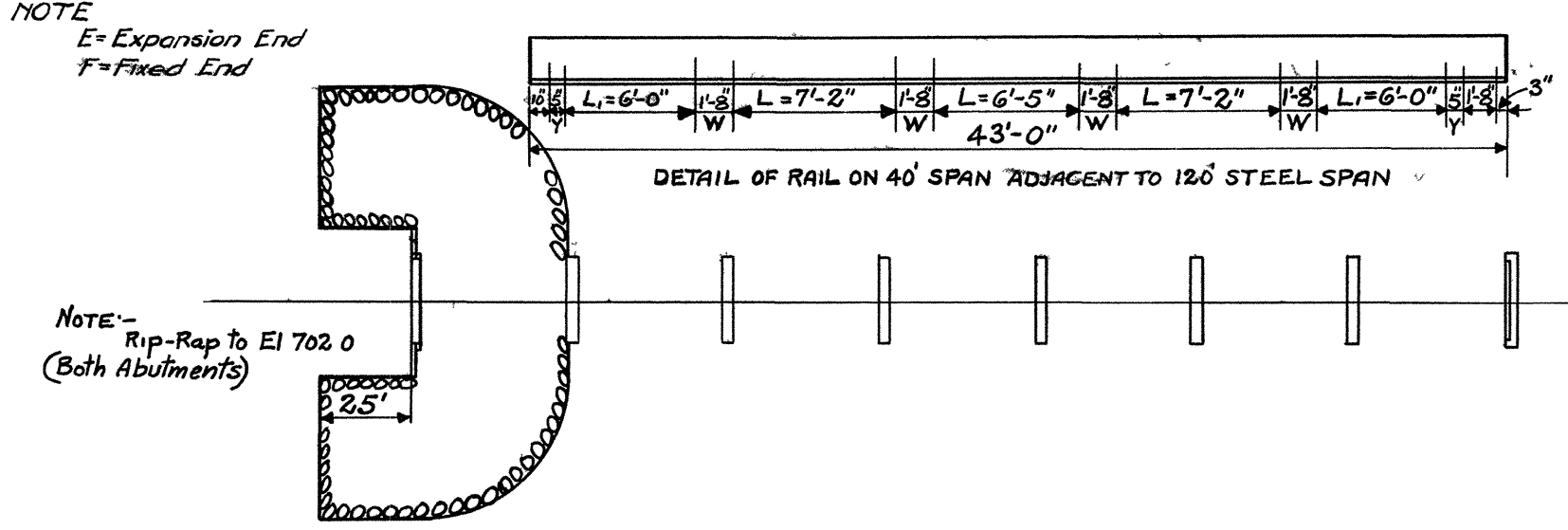
330' V.C.
 PC Sta 43+96 EI 710.225
 PI Sta 45+61 EI 716.0
 PT Sta 47+26 EI 716.0

330' V.C.
 PC Sta 49+48.03 EI 716.0
 PI Sta 51+13.03 EI 716.0
 PT Sta 52+78.03 EI 710.225



SECTION ON & OF BRIDGE & ROADWAY
 Scale 1"=50'-0"

NOTE
 E=Expansion End
 F=Fixed End



SPECIAL NOTE

This bridge shall be constructed so as to meet requirements for navigation as prescribed by the Chief Engineer of the U.S. War Department. All work shall be so conducted that the free navigation of the waterway shall not be unreasonably interfered with and to the complete satisfaction of the District Engineer of the U.S. Engineering Department. All kaisework, piling or other obstructions used in the construction of the bridge, shall be removed as soon as they are no longer needed, and, in no case, later than ninety days after the bridge has been opened to traffic.

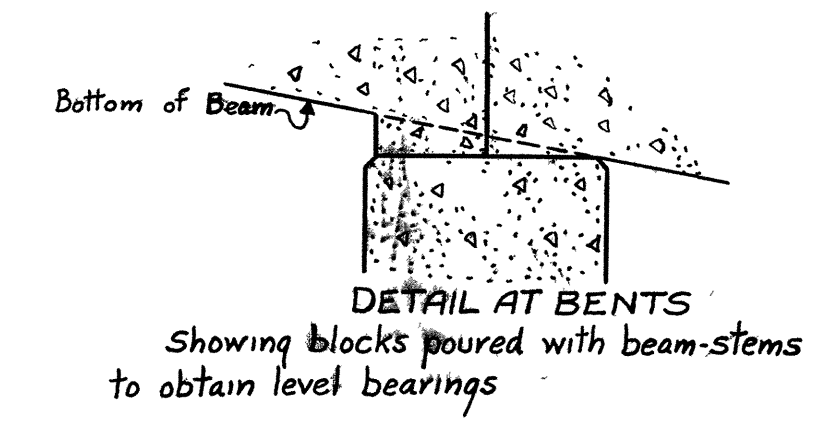


TABLE OF ESTIMATED QUANTITIES

ITEM	EXCAVATION			CONCRETE		STEEL		TREATED PILES LIN. FT.
	DRY	WET	ROCK	CLASS 'A'	CLASS 'B'	REINF.	STRUCT.	
SUPERSTRUCTURE								
14-40'-0" CONCRETE GIRDER SPANS	-	-	-	81.49	758.20	-	16,900.1	5292
2-120'-0" STEEL TRUSS SPANS	-	-	-	-	112.00	-	18,400	246,600
1-220'-0" STEEL TRUSS SPAN	-	-	-	-	115.90	-	19,400	311,800
SUBSTRUCTURE								
ABUTMENT NO. 1	105	-	-	-	65.4	-	3,859	750
ABUTMENT NO. 2	390	71	10	-	133.1	-	5,374	-
BENT NO. 1	379	70	2	-	41.7	-	6,958	-
BENT NO. 2	412	87	2	-	43.2	-	7,286	-
BENT NO. 3	447	91	2	-	44.2	-	7,463	-
BENT NO. 4	479	79	1	-	44.0	-	7,440	-
BENT NO. 5	527	90	1	-	45.1	-	7,640	-
BENT NO. 6	595	130	2	-	47.5	-	8,104	-
BENT NO. 7	592	81	2	-	45.1	-	7,640	-
BENT NO. 8	464	86	1	-	44.8	-	7,596	-
BENT NO. 9	384	78	1	-	43.9	-	7,419	-
BENT NO. 10	319	53	2	-	42.2	-	7,088	-
BENT NO. 11	284	68	2	-	42.3	-	7,109	-
BENT NO. 12	263	66	2	-	41.5	-	6,953	-
PIER NO. 1	912	144	10	-	177.1	-	5,485	-
PIER NO. 2	-	50	18	-	-	483.4	10,33	-
PIER NO. 3	-	63	13	-	-	488.5	10,33	-
PIER NO. 4	816	130	9	-	164.8	-	5,258	-
TOTALS	7368	1437	80	81.49	2052.0	971.9	315,579	563,692

Rip rap Abut No. 1 309 cu. yds.
 No. 2 337 cu. yds.
 Surfacing 2136 sq. yds.

GENERAL NOTES
 Specification: Standard Road and Bridge specifications of the Tennessee Department of Highways & Public Works. Surfacing to be 2" of Bituminous Material.

FINISHED GRADE ELEVATIONS
 FOR GIRDER SPANS
 ON VERTICAL CURVE BETWEEN
 BENT NO. 2 & PIER NO. 1 AND PIER NO. 4 & BENT NO. 11

STATION	ELEVATION	STATION	ELEVATION
Bent 43+89.0	709.98	Bent 52+120.03	715.21
PC 43+96.0	710.225	+7433	715.15
44+20.0	710.43	+7863	715.10
+108.0	710.64	+9293	715.04
+14.0	710.84	+8723	714.97
+20.0	711.03	+9153	714.91
+26.0	711.24	+9583	714.85
Bent 44+30.0	711.44	51+00.15	714.77
+36.3	711.55	+0443	714.70
+40.6	711.68	+0873	714.64
+44.9	711.81	+3023	714.26
+49.2	711.94	+3453	714.15
+53.5	712.06	+3883	714.07
+57.8	712.19	+2163	714.40
+62.1	712.31	+2593	714.32
+66.4	712.43	+3023	714.26
+70.7	712.54	+3453	714.15
Bent 44+70.0	712.66	+3883	714.07
+74.9	712.77	+4313	713.99
+79.2	712.88	+4743	713.89
+83.5	712.99	+5173	713.80
+87.8	713.10	Bent 51+58.08	713.71
+92.1	713.21	+6033	713.61
+96.4	713.31	+6463	713.51
45+00.0	713.31	+6893	713.41
+05.1	713.41	+7323	713.31
+09.4	713.51	+7753	713.21
+13.7	713.61	+8183	713.10
Bent 45+180.0	713.71	+8613	712.99
+22.3	713.80	+9043	712.88
+26.6	713.89	+9473	712.77
+30.9	713.93	Bent 51+90.03	712.66
+35.2	714.07	52+03.83	712.54
+39.5	714.16	+0743	712.43
+43.8	714.25	+1173	712.31
+48.1	714.33	+1603	712.19
+52.4	714.40	+2033	712.06
+56.7	714.49	+2463	711.94
Bent 45+61.0	714.56	+2893	711.81
+61.0	714.64	+3323	711.68
+65.3	714.70	+3753	711.55
+69.6	714.77	Bent 52+120.03	711.42
+73.9	714.85	+4183	711.24
+78.2	714.93	+4613	711.03
+82.5	715.01	+5043	710.84
+86.8	715.04	+5473	710.64
+91.1	715.04	+5903	710.43
+95.4	715.10	+6333	710.225
+99.7	715.15	+6763	710.03
End On 46+04.0	715.21	Bent 52+180.03	709.98

LIST OF DRAWINGS
 For details of Handrail see Drawing D-4-95
 For details of Girders see Drawing A-0-3 - Spans 14 @ 40'-0"
 For details of 120'-0" Spans see Drawings D-7-97 & 98.
 For details of 220'-0" Span see Drawings D-7-17 & 18.
 For details of Abutment No. 1. See Drawing A-1-77.
 For detail of Abutment No. 2. See Drawing A-1-78.
 For detail of Bents No. 1-12. See Drawing A-1-79.
 For detail of Piers No. 1 & 4. See Drawing A-1-80.
 For detail of Piers No. 2 & 3. See Drawing A-1-81.
 For Expansion Details see Drawing A-2-48

STATE OF TENNESSEE
 DEPARTMENT OF HIGHWAYS
 AND PUBLIC WORKS
 NASHVILLE
LAYOUT OF BRIDGE
 OVER
 HIWASSEE RIVER
 STA. 43+03
 MEIGS CO
 1928

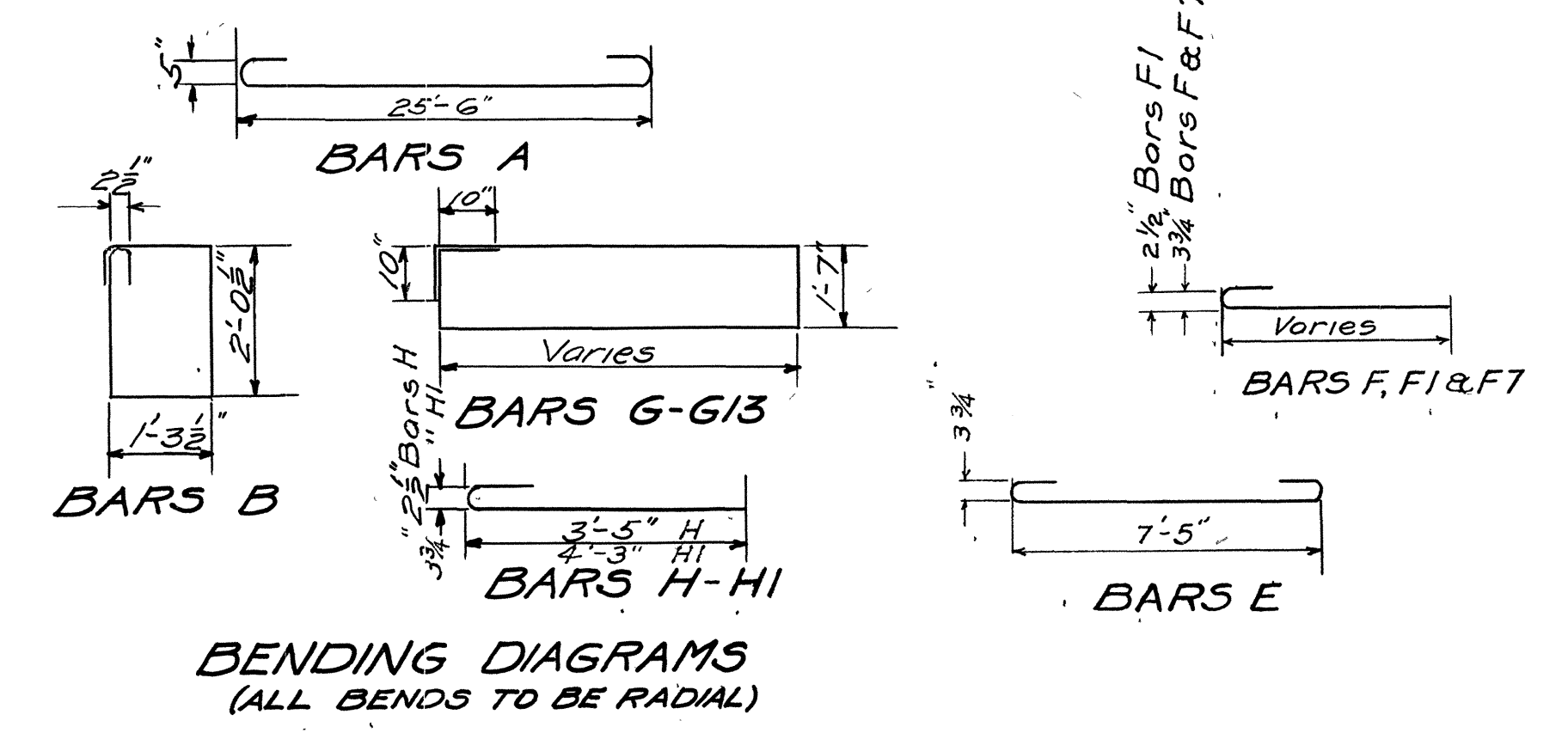
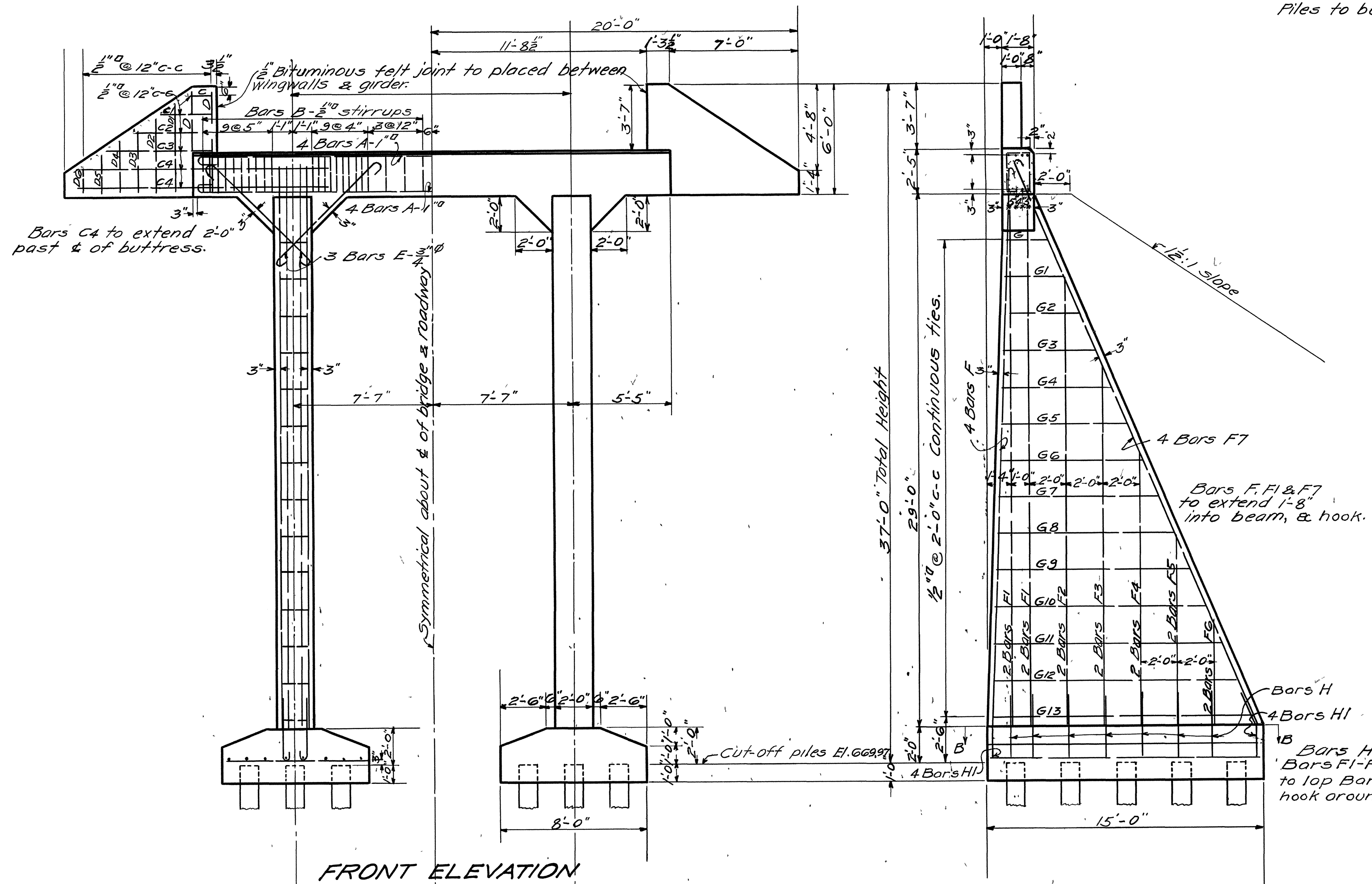
CORRECTED BY *L. M. Erickson*
 BRIDGE ENGINEER
 APPROVED BY *[Signature]*
 ASSISTANT CHIEF ENGINEER
A-1-76

MICROFILMED

Revision Expansion Details add. 10 18 28

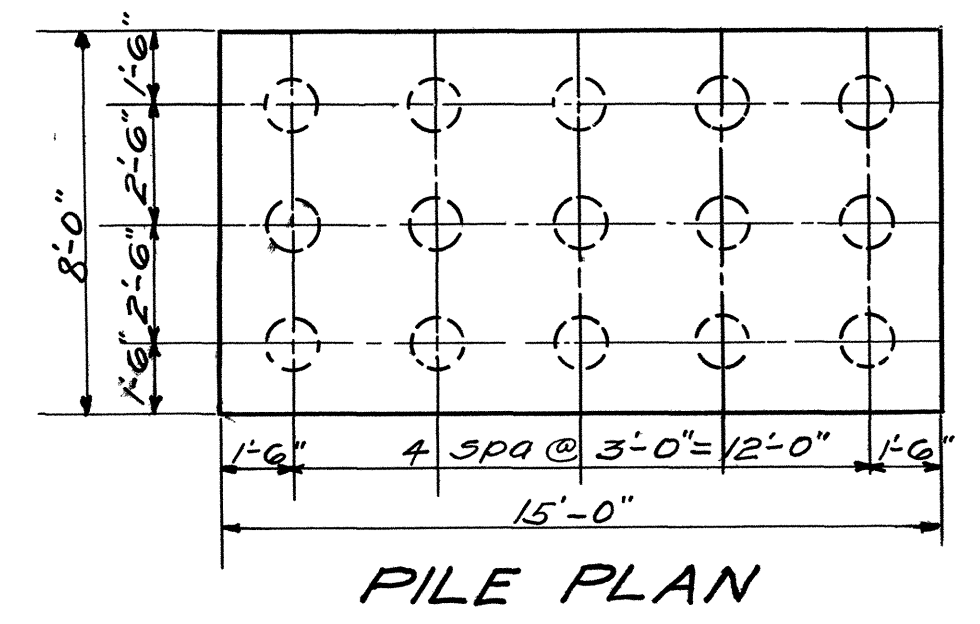
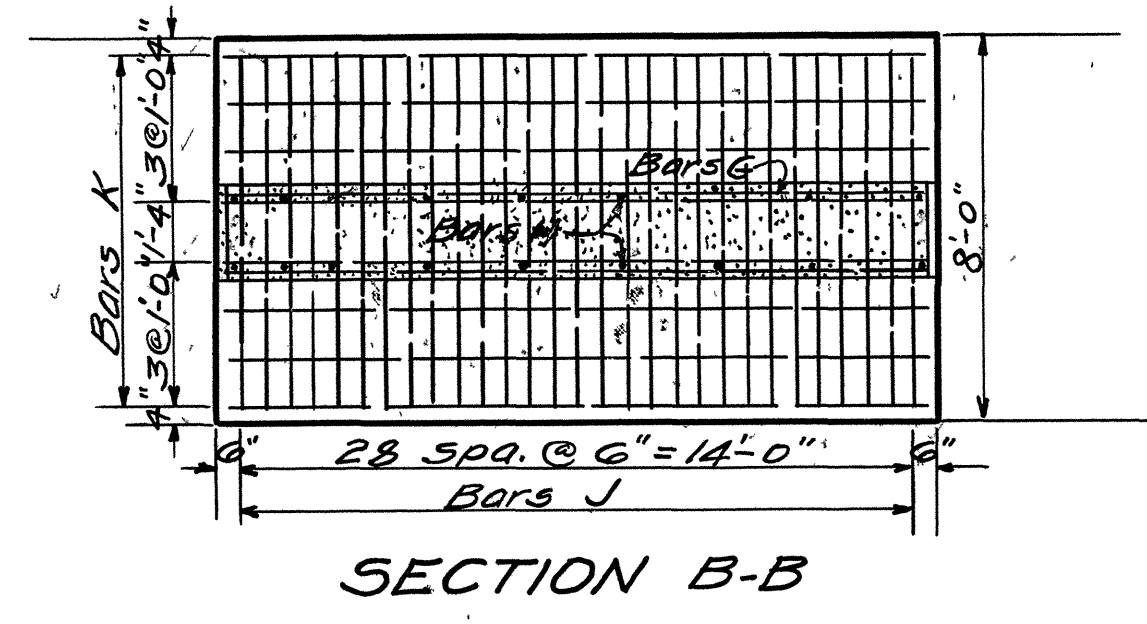
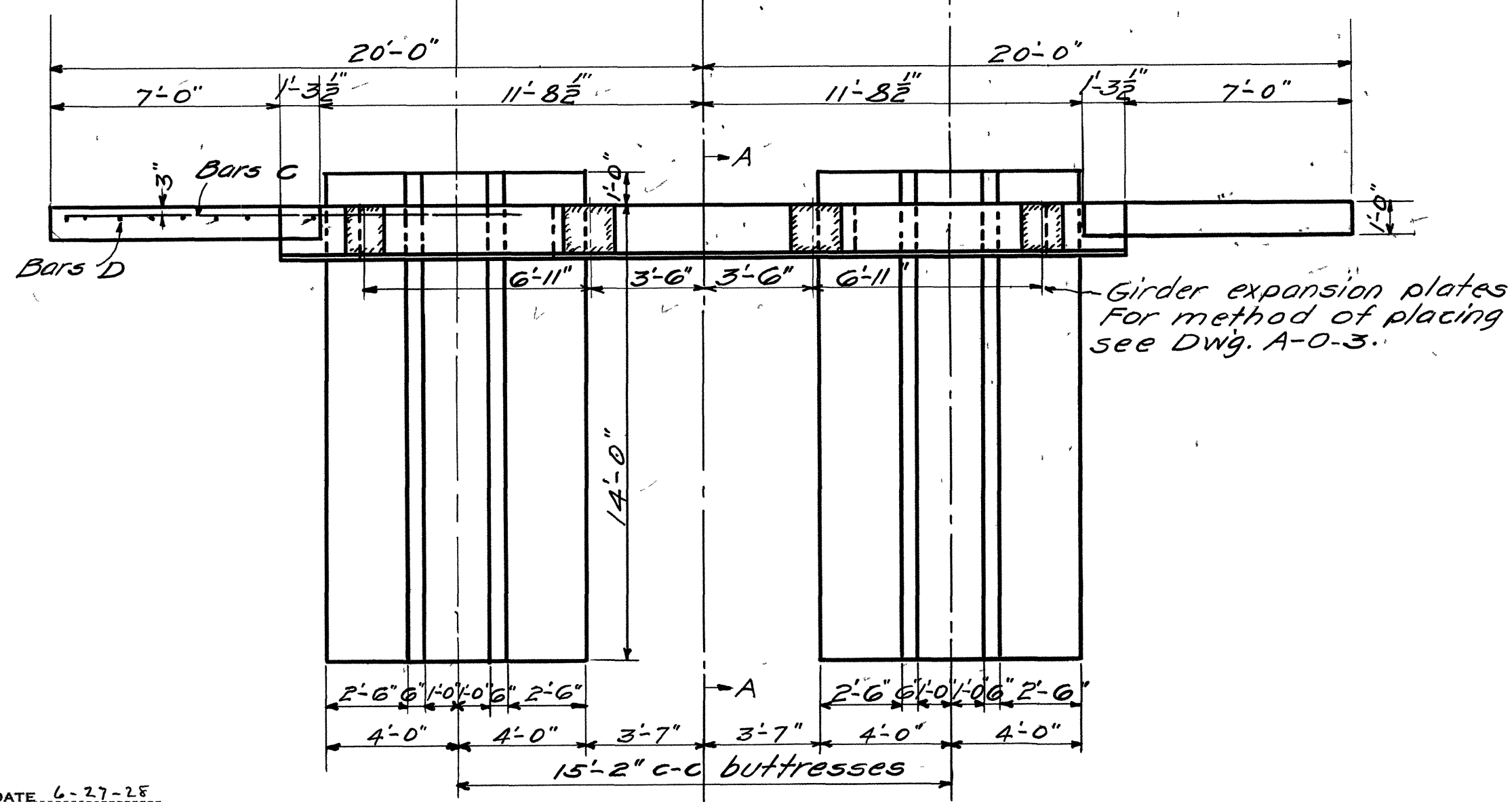
DESIGNED BY *J. G. Lee* DATE June 1928
 DRAWN BY *J. G. Lee* DATE June 1928
 CHECKED BY *A. R. J. [Signature]* DATE 6-30-28

General Notes
 Specifications: Standard Road & Bridge Specifications of the Tennessee Department of Highways & Public Works.
 Concrete shall be Class A.
 Reinforcing steel: See Specifications.
 Forms & Finish: See Specifications.
 Piles to be driven to rock (maximum length about 25')-treated.



BILL OF STEEL

BAR SIZE	NO	LENGTH	BAR SIZE	NO	LENGTH
A	8	27'-2"	F5	1/2"	4
B	4	7'-6"	F6	1/2"	4
C	2	1'-6"	F7	3/4"	8
C1	2	3'-0"	G	1/2"	2
C2	2	4'-6"	G1	"	2
C3	2	6'-0"	G2	"	2
C4	4	13'-9"	G3	"	2
D	4	5'-6"	G4	"	2
D1	2	4'-9"	G5	"	2
D2	2	4'-3"	G6	"	2
D3	2	3'-6"	G7	"	2
D4	2	2'-9"	G8	"	2
D5	2	2'-3"	G9	"	2
D6	2	1'-6"	G10	"	2
E	12	8'-9"	G11	"	2
F	8	31'-6"	G12	"	2
F1	8	31'-3"	G13	1/2"	2
F2	4	24'-6"	H	1/2"	28
F3	4	19'-9"	J	1/2"	58
F4	4	15'-0"	K	1/2"	16
			H1	3/4"	16



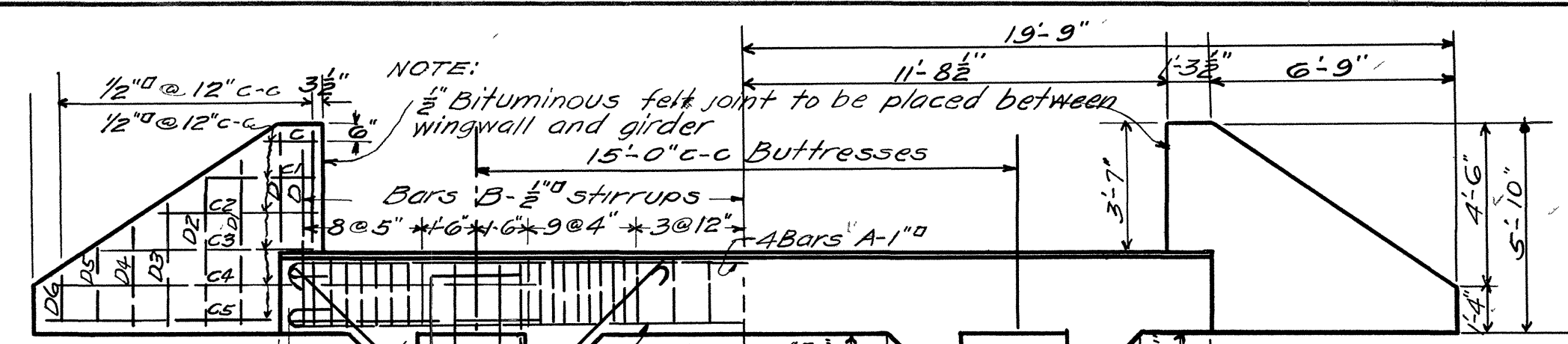
ESTIMATED QUANTITIES
 Concrete Class A 65.4 Cu. Yds.
 Reinforcing steel 3859 Lbs.

DESIGNED BY J. G. ... DATE 6-27-28
 DRAWN BY ... DATE 6-27-28
 CHECKED BY ... DATE 6-28-28

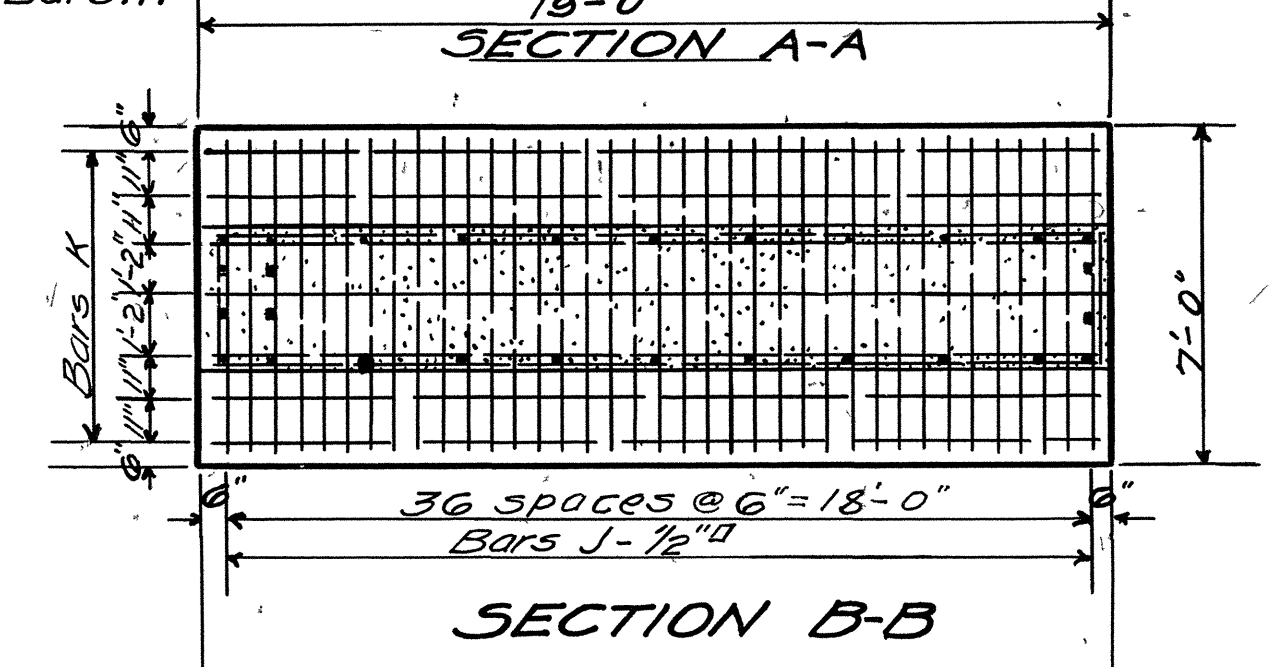
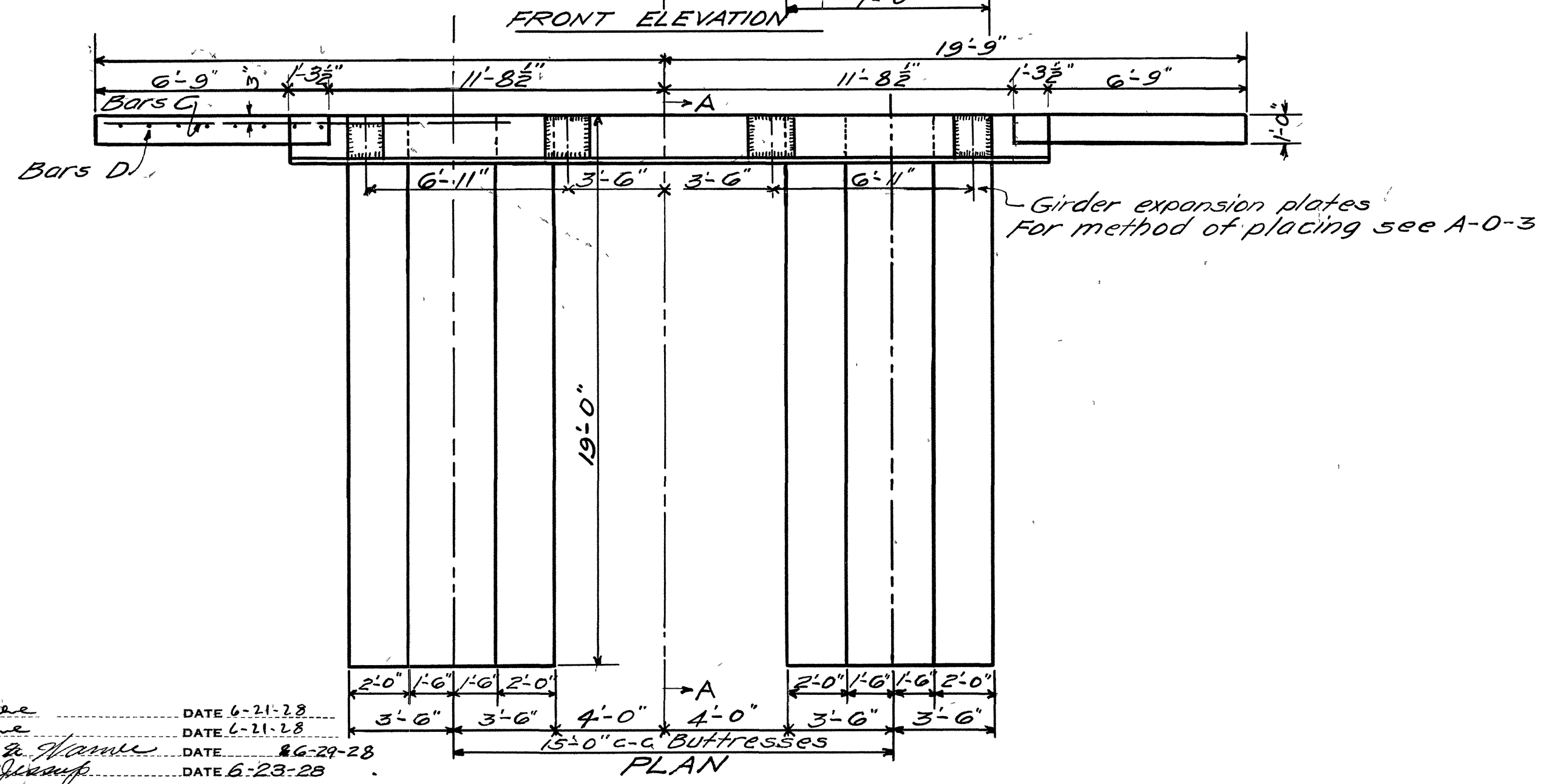
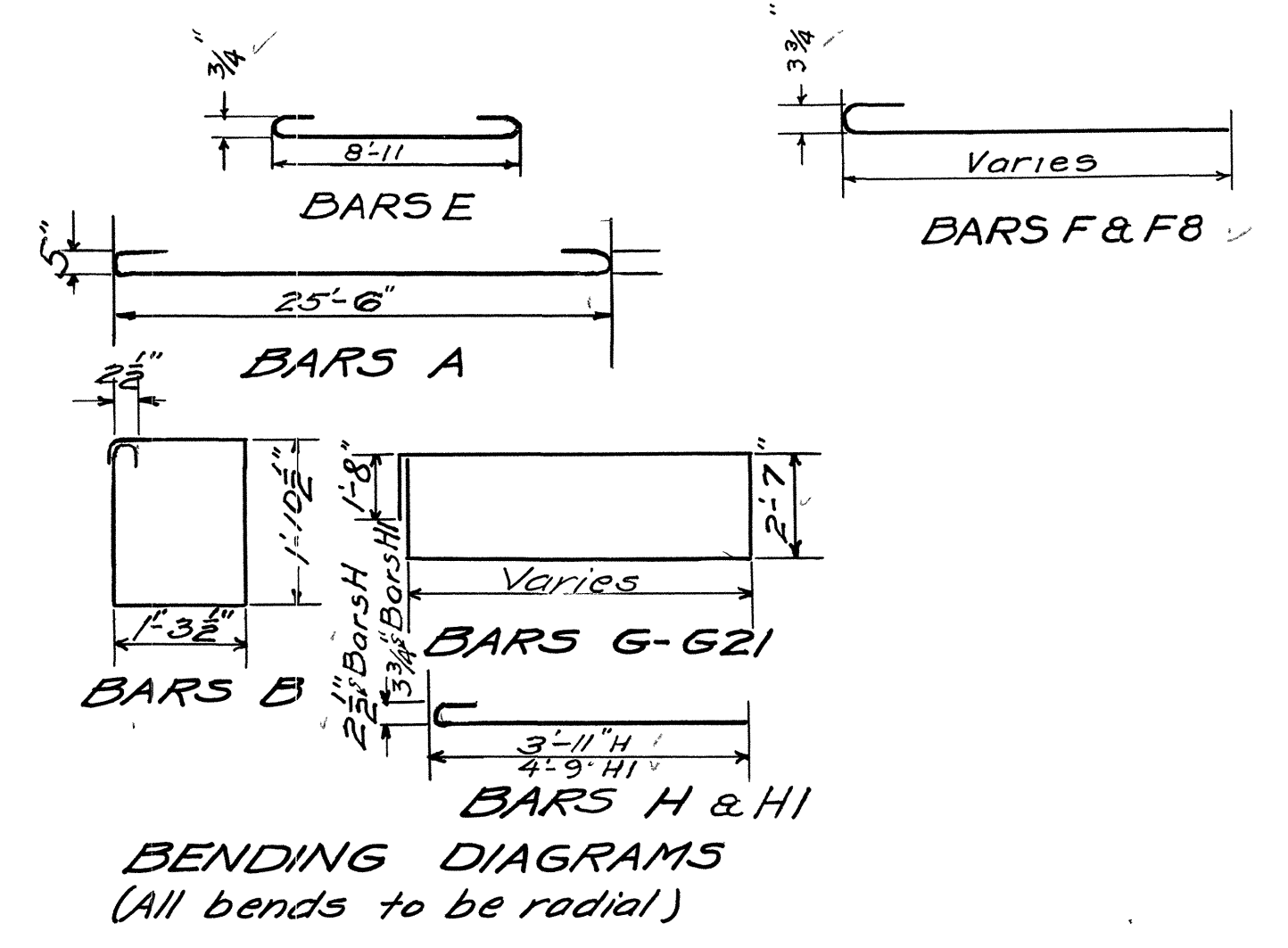
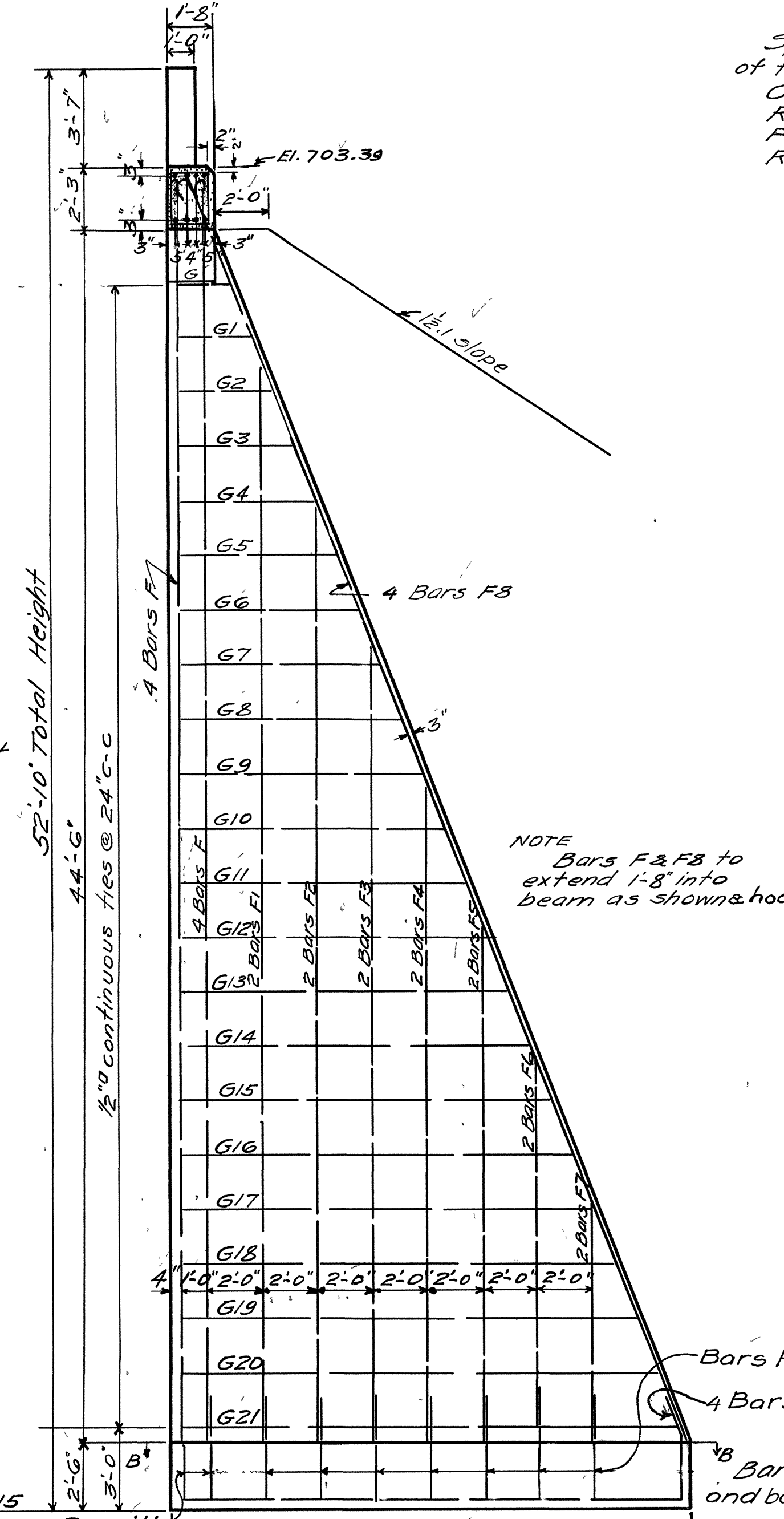
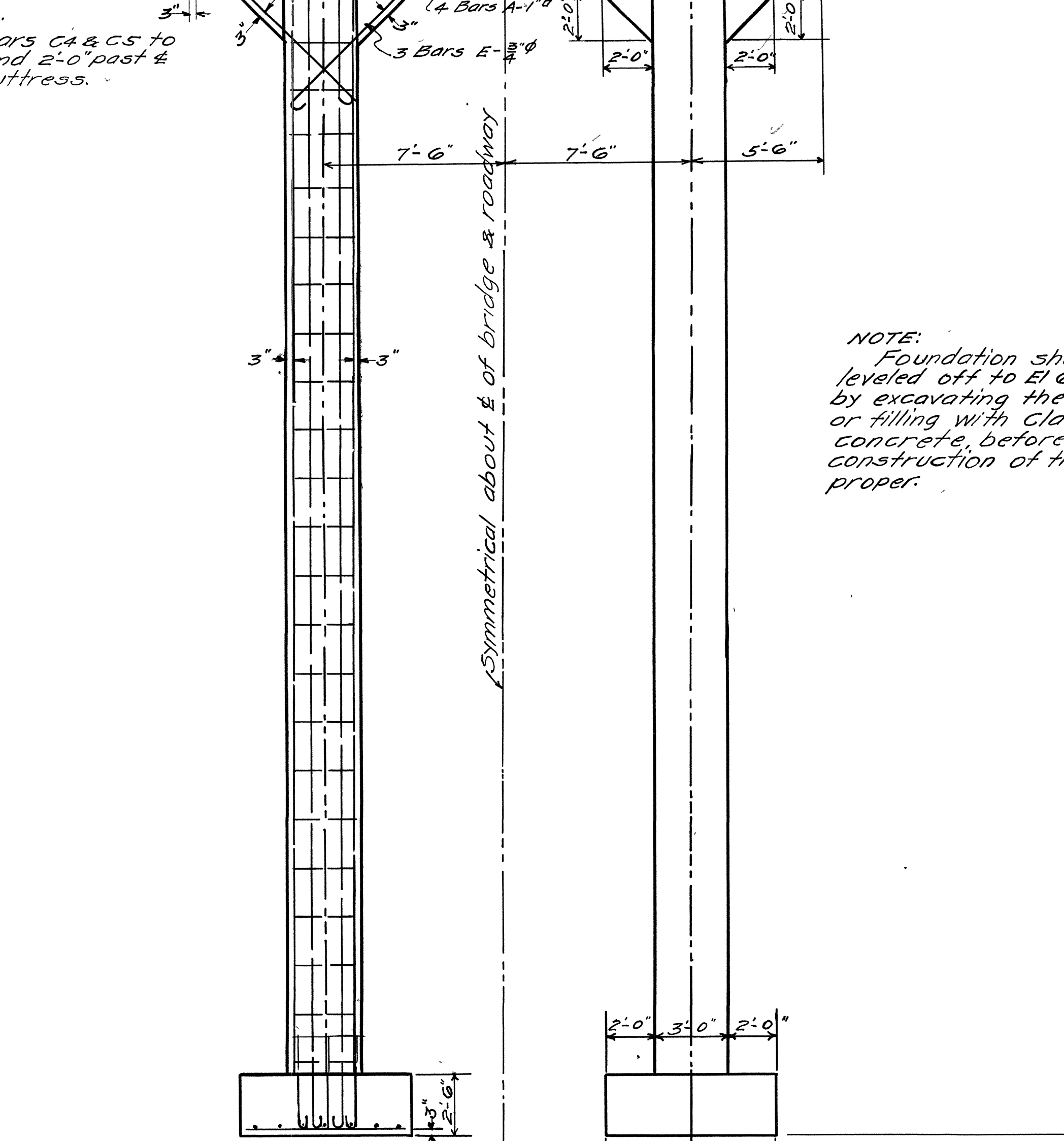
STATE OF TENNESSEE
 DEPARTMENT OF HIGHWAYS
 AND PUBLIC WORKS
 NASHVILLE
 DETAILS
ABUTMENT NO. I
 AT
 STA. 43+03
 MEIGS CO
 1928

CORRECTED BY L. M. Erickson
 BRIDGE ENGINEER
 APPROVED BY J. G. ...
 ASSISTANT STATE HIGHWAY ENGINEER

General Notes
 Specifications: Standard Road & Bridge Specifications of the Tennessee Department of Highways & Public Works.
 Concrete shall be Class A
 Reinforcing steel: See Specifications
 Forms & Finish: See Specifications
 Rock Foundation: See Specifications.



NOTE: Bars CA & CS to extend 2'-0" past 4 of buttress.



ESTIMATED QUANTITIES
 Concrete Class "A" 1331 Cu.Yds.
 Reinforcing steel 5374 Lbs.

BILL OF STEEL

BAR	SIZE	NO	LENGTH	BAR	SIZE	NO	LENGTH
A	1/4"	8	27'-2"	G	1/2"	2	10'-6"
B	5/8"	43	7'-2"	G1	"	2	12'-3"
C	1/2"	2	7'-6"	G2	"	2	13'-9"
G1	"	2	3'-0"	G3	"	2	15'-3"
G2	"	2	4'-6"	G4	"	2	16'-9"
G3	"	2	6'-0"	G5	"	2	18'-6"
G4	"	2	13'-9"	G6	"	2	20'-0"
G5	1/2"	2	13'-9"	G7	"	2	21'-6"
D	1/2"	4	5'-3"	G8	"	2	23'-0"
D1	"	2	4'-9"	G9	"	2	24'-6"
D2	"	2	4'-0"	G10	"	2	26'-3"
D3	"	2	3'-3"	G11	"	2	27'-9"
D4	"	2	2'-9"	G12	"	2	29'-6"
D5	"	2	2'-0"	G13	"	2	31'-0"
D6	1/2"	2	1'-3"	G14	"	2	32'-6"
E	3/4"	12	10'-3"	G15	"	2	34'-0"
F	3/4"	16	47'-0"	G16	"	2	35'-6"
F1	1/2"	4	39'-9"	G17	"	2	37'-0"
F2	"	4	34'-6"	G18	"	2	38'-9"
F3	"	4	29'-6"	G19	"	2	40'-3"
F4	"	4	24'-3"	G20	"	2	41'-9"
F5	"	4	19'-3"	G21	1/2"	2	43'-3"
F6	"	4	14'-3"	H	1/2"	28	4'-4"
F7	1/2"	4	9'-0"	J	1/2"	74	6'-6"
F8	3/4"	8	50'-3"	K	1/2"	17	18'-9"
				H1	3/4"	24	5'-3"

NOTE: Where necessary to splice bars they shall be lapped 40 diameters.

STATE OF TENNESSEE
 DEPARTMENT OF HIGHWAYS
 AND PUBLIC WORKS
 NASHVILLE
 DETAILS
ABUTMENT NO. 2.
 AT
 STA. 43+03
 MEIGS CO
 1928

CORRECT: *L.M. Kerison*
 BRIDGE ENGINEER
 APPROVED: *O.J. Gentry*
 ASSISTANT STATE HIGHWAY ENGINEER

MICROFILMED

DESIGNED BY: J. G. G... DATE: 6-21-28
 DRAWN BY: J. G. G... DATE: 6-11-28
 TRACED BY: J. G. G... DATE: 6-29-28
 CHECKED BY: A. R. J... DATE: 6-23-28

BILL OF STEEL
CONSTANT FOR ALL BENTS

BAR	NO.	SIZE	LENGTH
A	5	1 1/2"	25'-6"
B	2	1 1/2"	23'-2"
C	2	1 1/2"	28'-2"
D	2	1 1/2"	23'-6"
E	39	3/8"	14'-2"
F	6	3/8"	9'-6"
J	16	1"	5'-9"
K	20	3/8"	7'-8"
L	4	3/8"	10'-10"
M	8	3/8"	9'-10"
N	8	3/8"	8'-10"
T	8	3/8"	2'-0"

Note: Weights of above bars are included in table of dimensions and estimated quantities

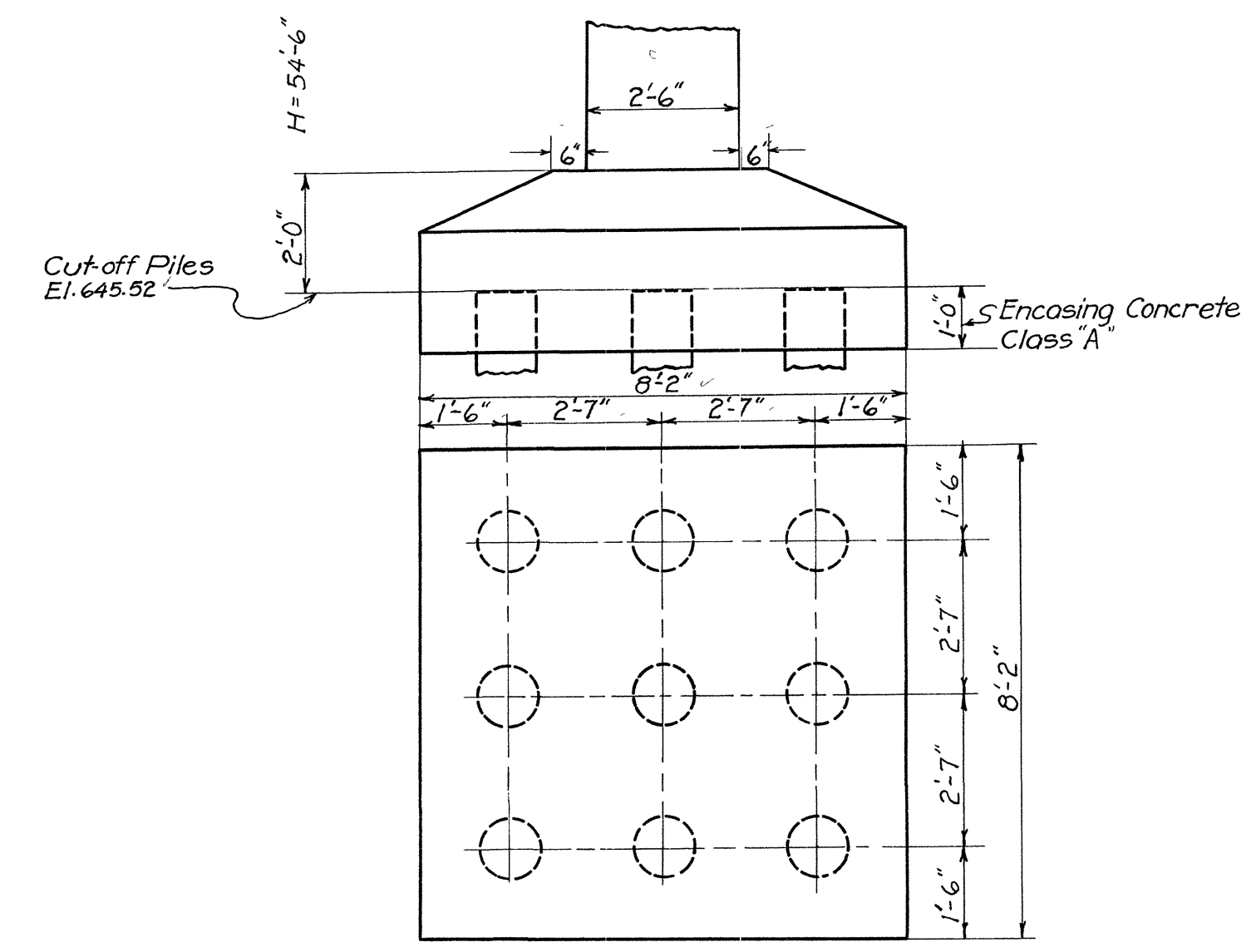
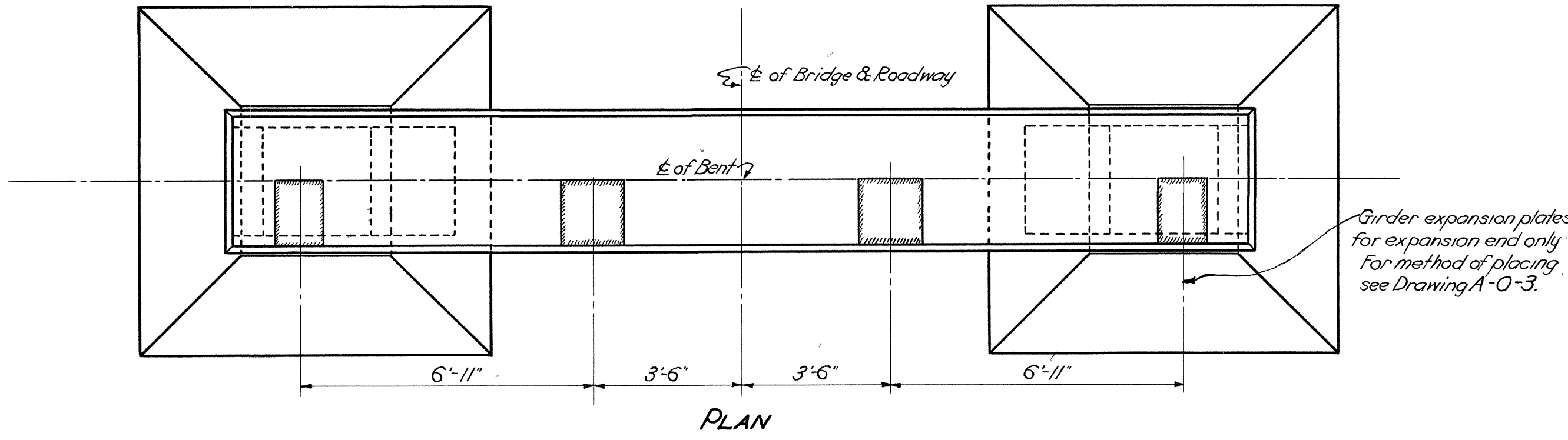
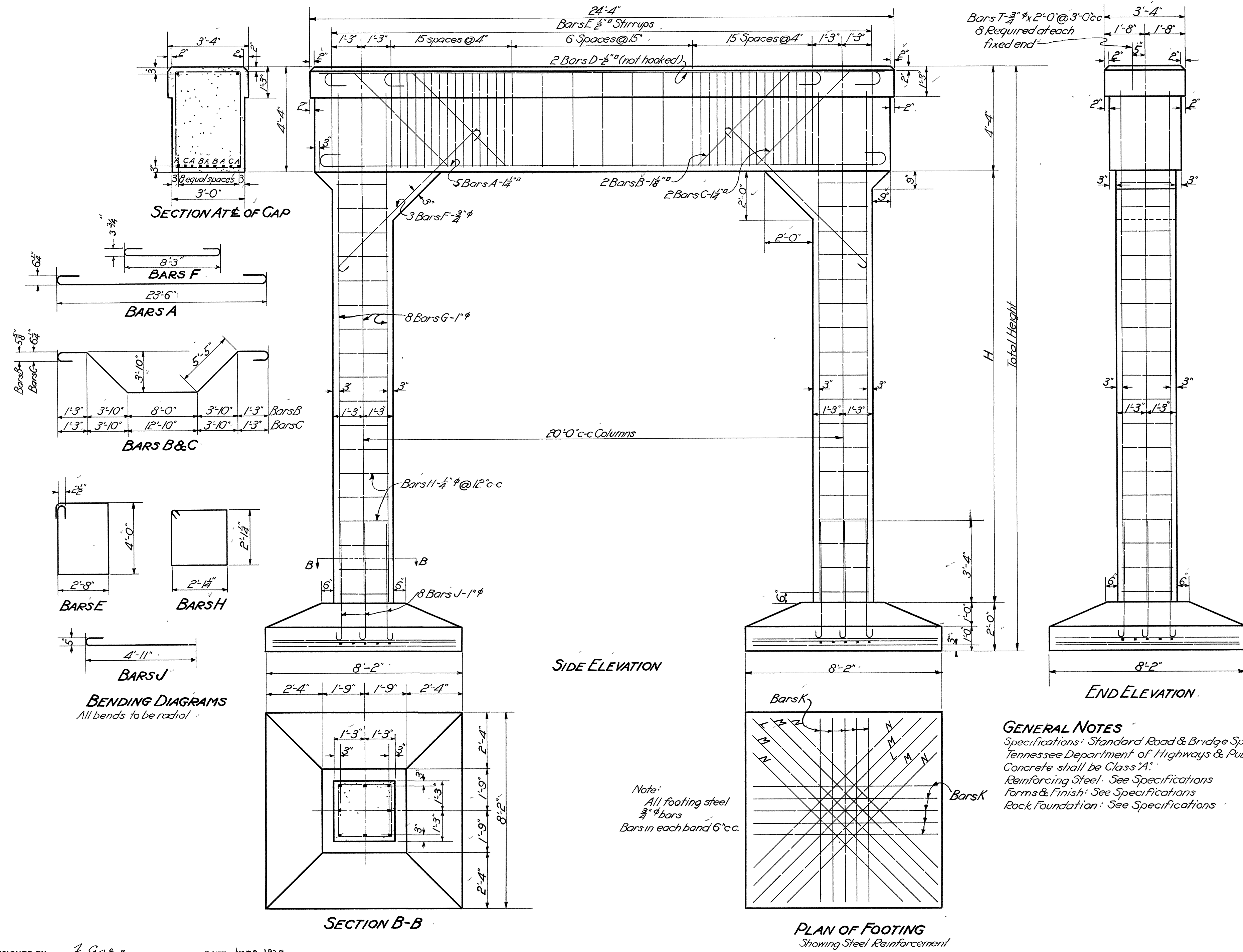


TABLE OF DIMENSIONS & ESTIMATED QUANTITIES

Bent No	Bottom of footing Elevation		H		Bars G 1/2" x 1'-0" Length		Bars H 3/4" x 9'-3" Number		Concrete Cu Yds	Reinforcing Steel Lbs.
	Right	Left	Right	Left	Right	Left	Right	Left		
1	652.01	651.01	46-6	47-6	49-9	50-9	46	47	41.7	4351
2	652.02	647.52	48-0	52-6	51-3	55-9	48	52	43.2	5001
3	647.46	650.96	54-0	50-6	57-3	53-9	54	50	44.2	5093
4	650.21	651.21	52-6	51-6	55-9	54-9	52	51	44.0	5080
5	647.26	651.76	56-6	52-0	59-9	55-3	56	52	45.1	5184
6	644.12	646.12	60-6	58-6	63-9	61-9	60	58	47.5	5424
7	650.62	650.12	54-0	54-6	57-3	57-9	54	54	45.1	5134
8	649.26	650.76	54-6	53-0	57-9	56-3	54	53	44.8	5161
9	651.21	650.71	51-6	52-0	54-9	55-3	51	52	43.9	5070
10	653.46	653.46	48-0	48-0	51-3	51-3	48	48	42.2	4393
11	651.52	652.02	48-6	48-0	51-9	51-3	48	48	42.3	4303
12	652.01	652.01	46-6	46-6	49-9	49-9	46	46	41.5	4323

*8 in each Column
Where necessary to splice bars, they shall be lapped 40 diameters



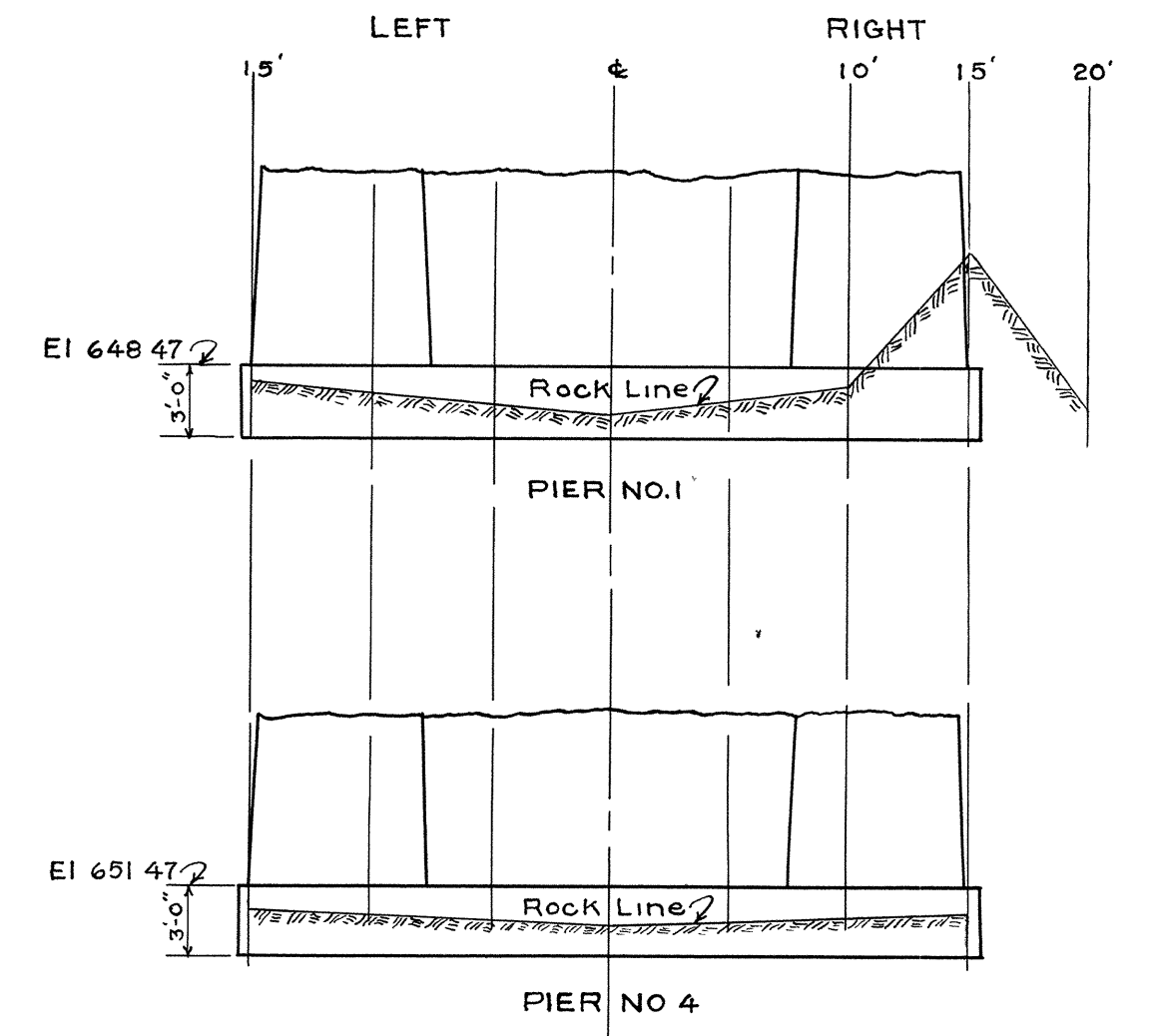
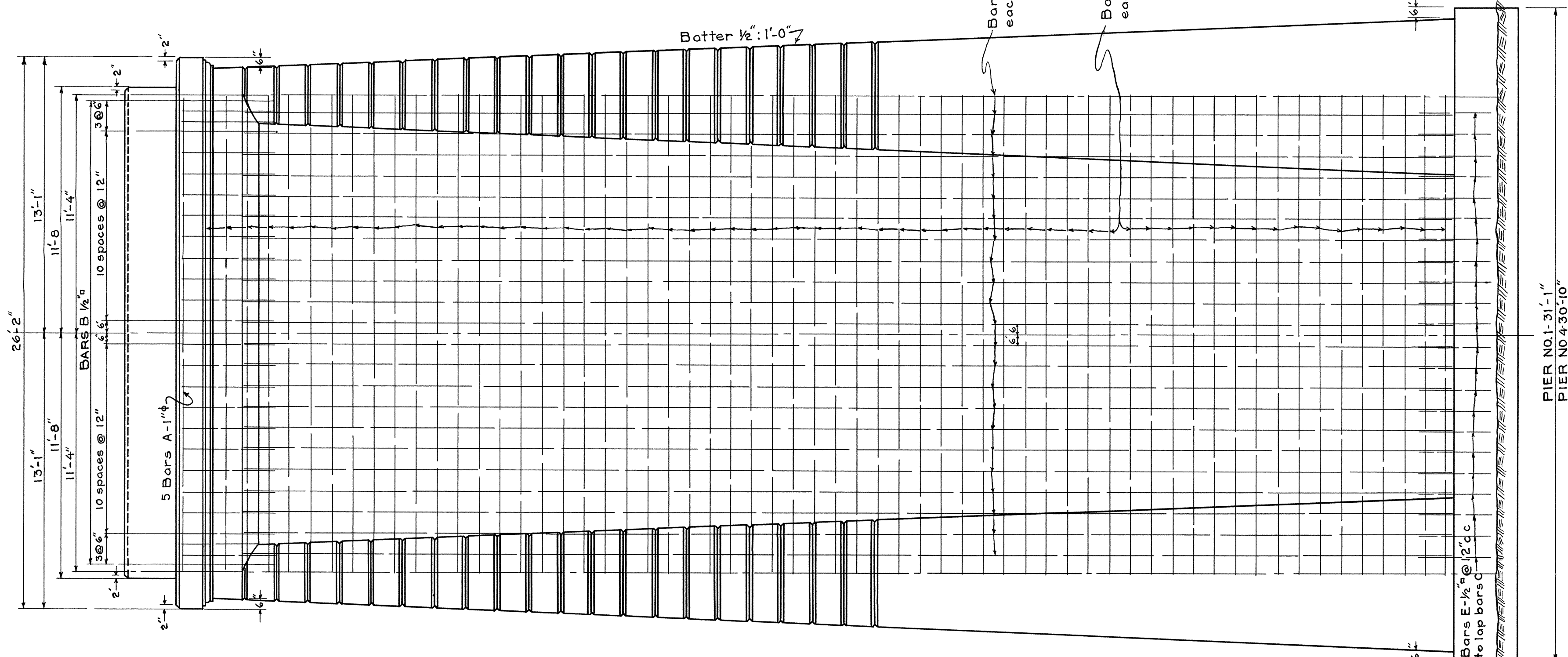
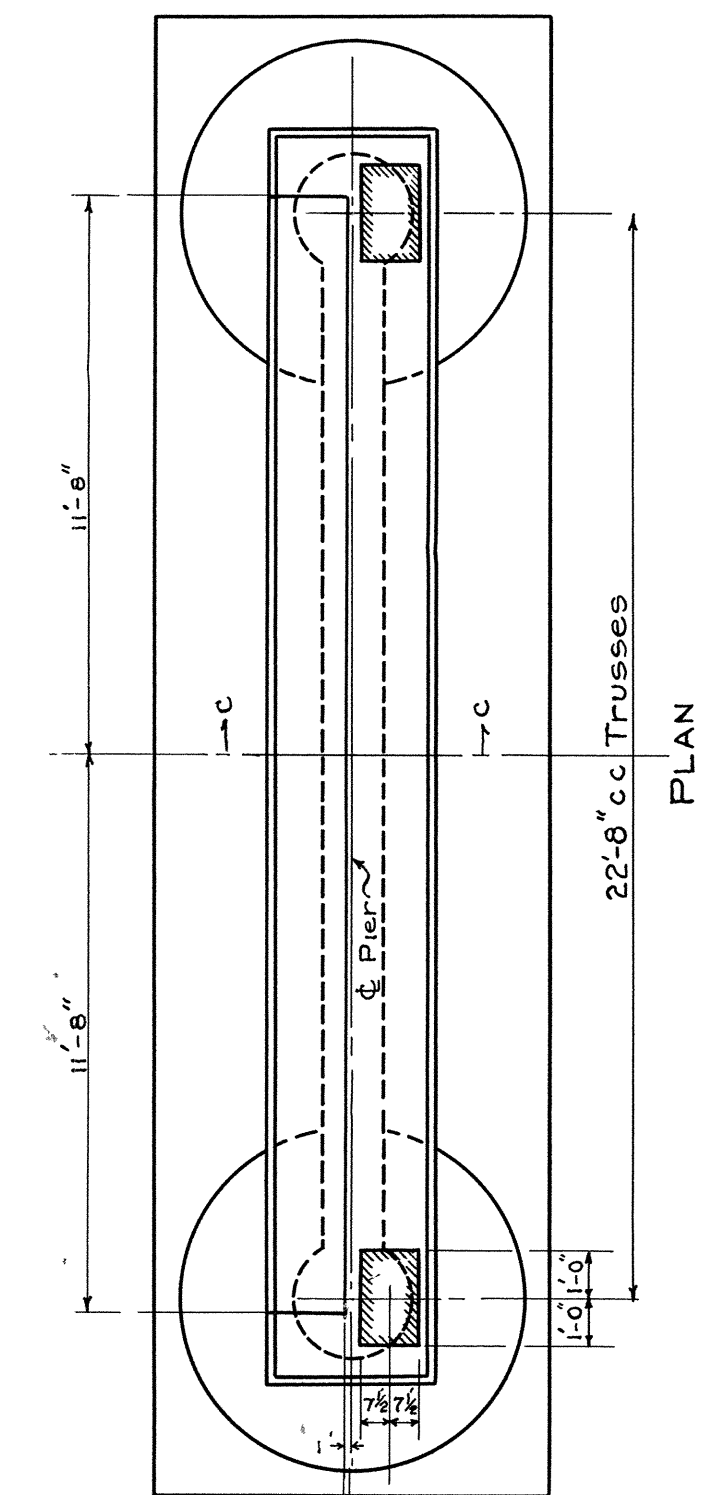
GENERAL NOTES
Specifications: Standard Road & Bridge Specifications of the Tennessee Department of Highways & Public Works.
Concrete shall be Class A.
Reinforcing Steel: See Specifications
Forms & Finish: See Specifications
Rock Foundation: See Specifications

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE
DETAIL BENTS No. 10 to No. 12
STA. 43+03
MEIGS CO.
1928

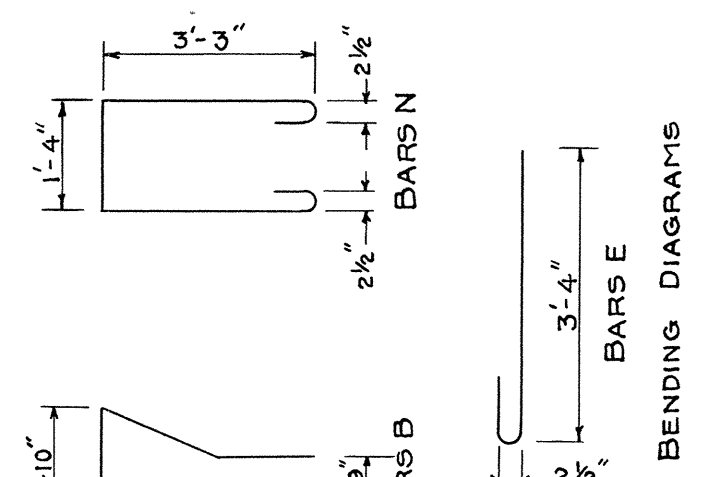
CORRECT: L. W. Kerickson
BRIDGE ENGINEER
APPROVED: O. J. Gorty
ASSISTANT STATE HIGHWAY ENGINEER

MICROFILMED
12-11-20 Left Column - Bent No. 2 - Revised
7/30/23 Estimated Steel Quantities Revised

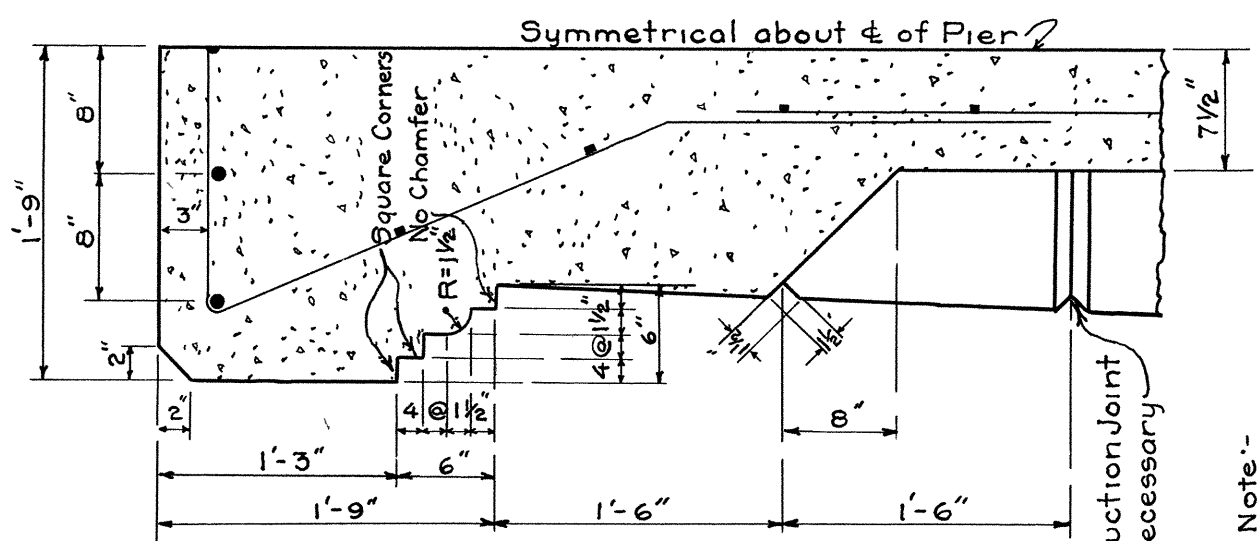
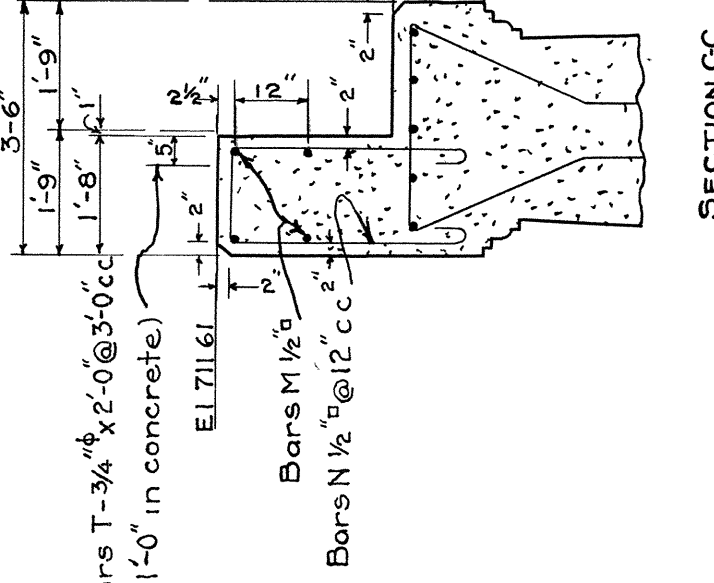
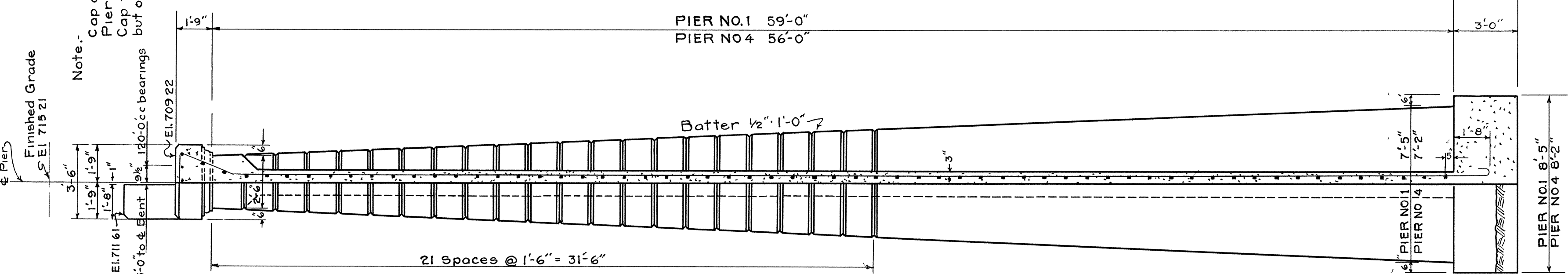
DESIGNED BY: J. Grace DATE: June 1928
DRAWN BY: J. Grace DATE: June 1928
TRACED BY: J. Grace DATE: 6-4-28
CHECKED BY: A. R. Jessup DATE: 6-4-28



43'-0" to center of bent
120'-0" c.c. bearings



Note: Cap as shown is for Pier No. 1
Cap for Pier No. 4, same as for Pier No. 1 but opposite hand



Note: Belt courses shall be spaced as shown. They shall be made by nailing triangular strips inside the forms.
The pouring of the concrete shall be so arranged that construction joints when necessary will be made upon the apex of the bead as shown.

ESTIMATED QUANTITIES

ITEM	PIER NO. 1	PIER NO. 4
CONCRETE-CLASS "A" CU YDS.	177.1	164.8
REINFORCING STEEL LBS	5485	5258

GENERAL NOTES
Specifications Standard Road and Bridge Specifications of the Tennessee Department of Highways and Public Works
Concrete shall be Class "A"
Reinforcing Steel: See Specifications.
Forms and Finish: See Specifications.
Rock Foundation: See Specifications.

BILL OF STEEL

PIER NO. 1				PIER NO. 4			
BAR	SIZE	NO	LENGTH	BAR	SIZE	NO	LENGTH
A	1"φ	5	25'-9"	A	1"φ	5	25'-9"
B	1/2"φ	28	12'-0"	B	1/2"φ	28	12'-0"
C	1/2"φ	44	57'-6"	C	1/2"φ	44	54'-6"
D	1/2"φ	120	22'-6"	D	1/2"φ	114	22'-6"
E	1/2"φ	44	3'-9"	E	1/2"φ	44	3'-9"
M	1/2"φ	4	22'-6"	M	1/2"φ	4	22'-6"
N	1/2"φ	23	8'-8"	N	1/2"φ	23	8'-8"
T	3/4"φ	8	2'-0"	T	3/4"φ	8	2'-0"

NOTE: Where necessary to splice bars they shall be lapped 40 diameters.

DESIGNED BY: J. G. ... DATE: 6-12-28
DRAWN BY: J. G. ... DATE: 6-12-28
TRACED BY: WWP ... DATE: 6-28-1928
CHECKED BY: A.K. ... DATE: 6-21-28

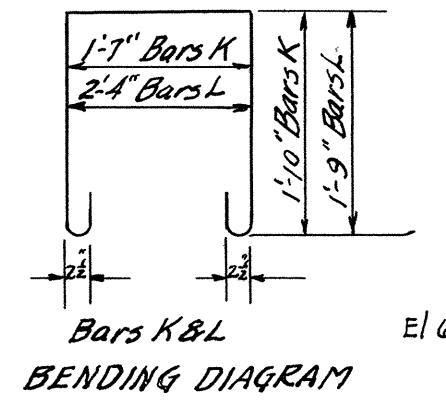
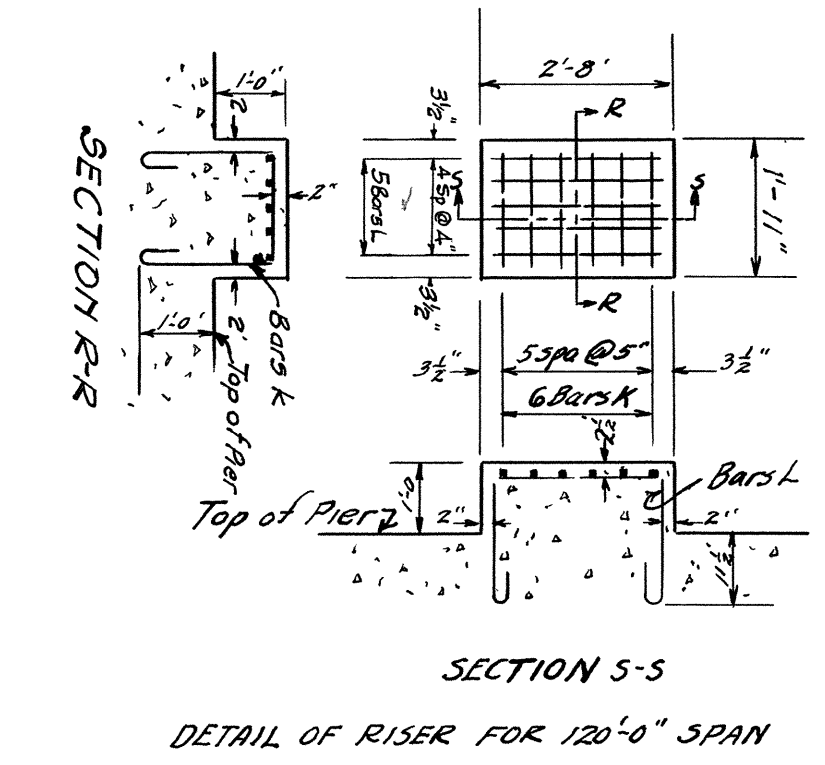
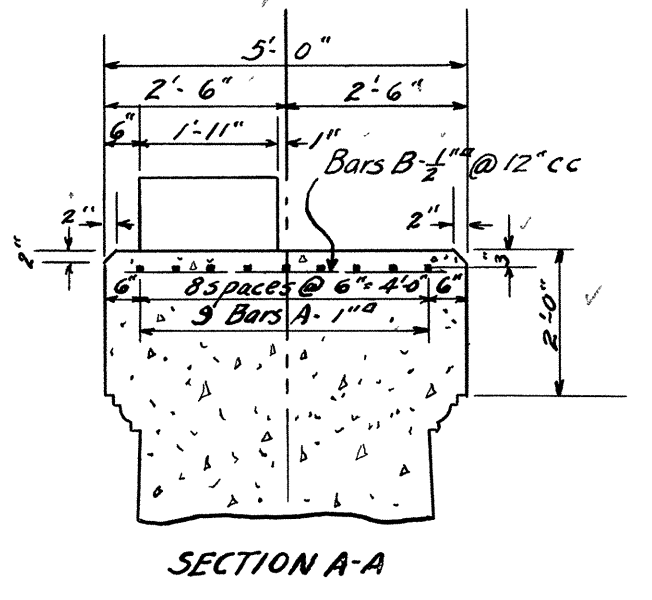
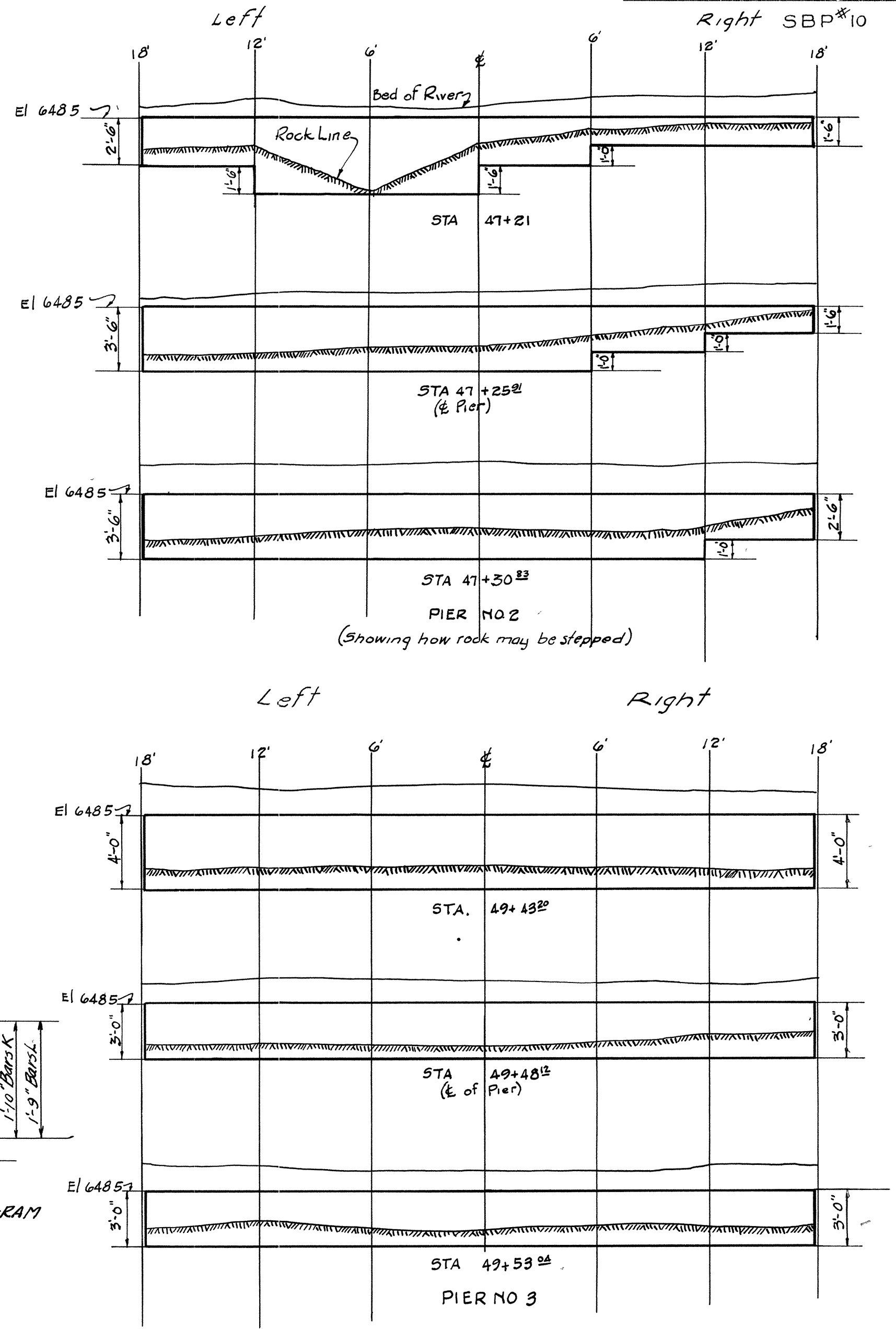
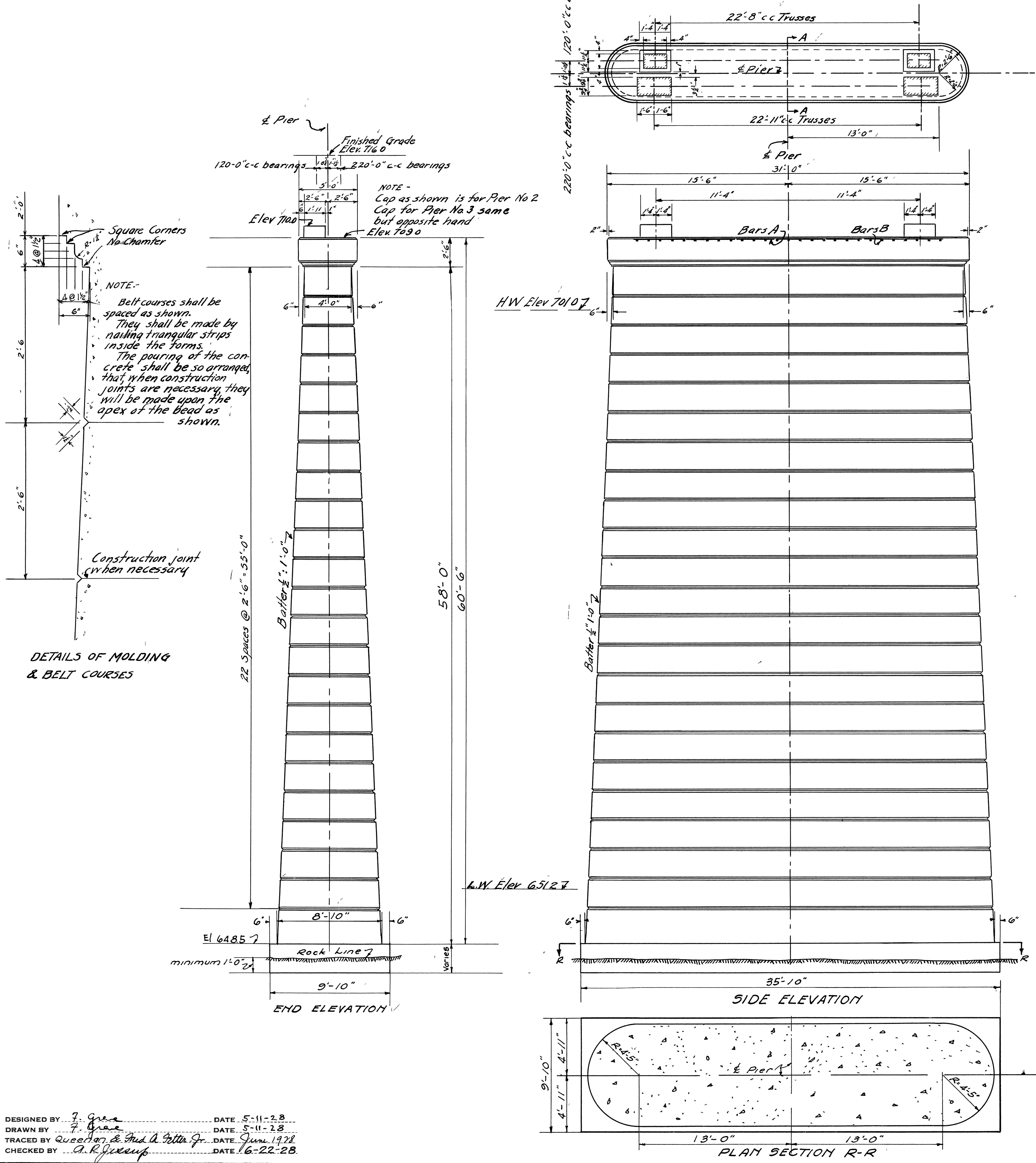
STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE
DETAILS
PIERS 1 & 4
MEIGS COUNTY
STATION 43+03
1928.
CORRECT: L. W. Erickson
BRIDGE ENGINEER
APPROVED: O. J. ...
ASSISTANT STATE HIGHWAY ENGINEER

GENERAL NOTES
 Specifications: Standard Road and Bridge Specifications of the Tennessee Department of Highways and Public Works
 Concrete shall be Class "B"
 Reinforcing Steel: See Specifications
 Forms and Finish: See Specifications
 Rock Foundation: See Specifications

NOTE:-
 The steel contractor shall furnish and place an 1/8" sheet of lead (same size as bearing plate) under the bearings of the steel trusses.
 The cost of these lead sheets shall be included in the price bid for structural steel.

BILL OF STEEL FOR ONE PIER

BAR SIZE	NO	LENGTH
A	9	26'-6"
B	27	4'-6"
K	12	6'-11"
L	10	6'-8"



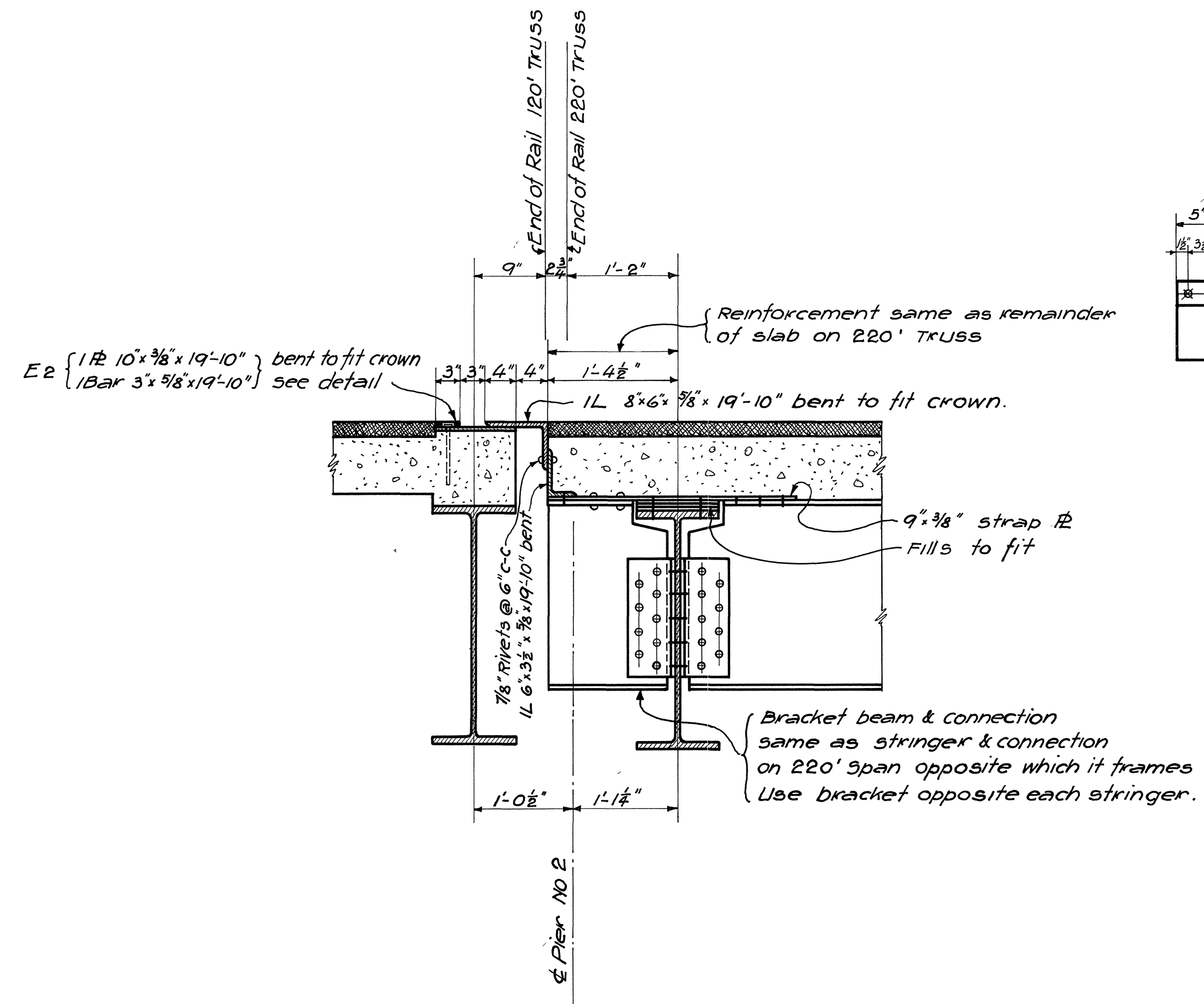
ESTIMATED QUANTITIES
PIER NO. 2
 CONCRETE CLASS "B" 483.4 CU YDS.
 REINFORCING STEEL 1033 LBS.
PIER NO. 3
 CONCRETE CLASS "B" 488.5 CU YDS.
 REINFORCING STEEL 1033 LBS.

STATE OF TENNESSEE
 DEPARTMENT OF HIGHWAYS
 AND PUBLIC WORKS
 NASHVILLE
PIERS 2 & 3
 STATION 49+03
 MEIGS COUNTY
 1928

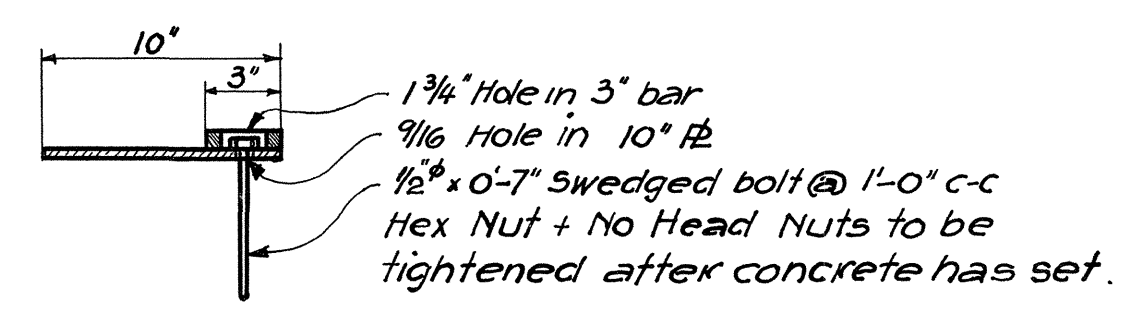
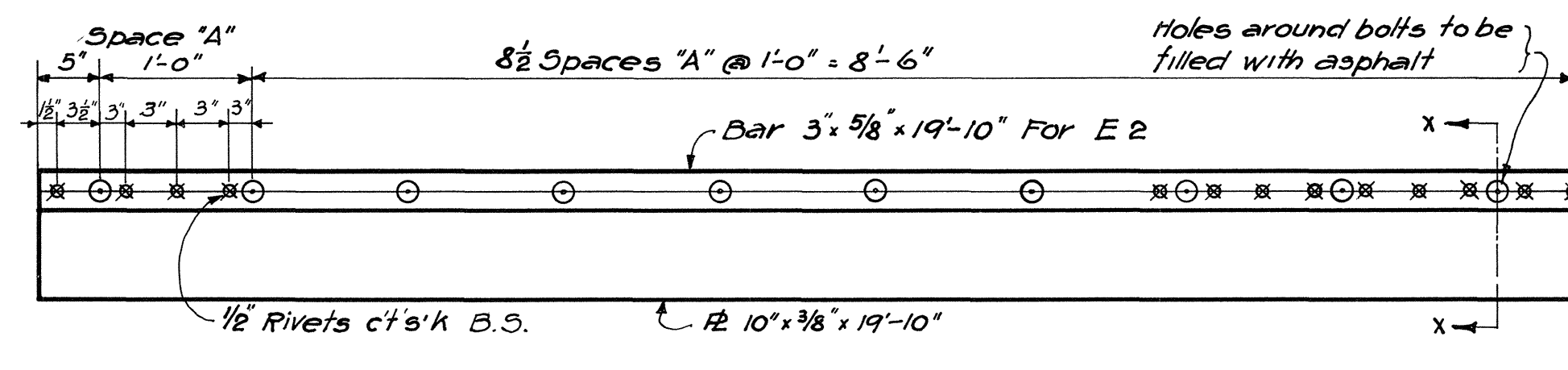
CORRECT: *L. W. Kerison*
 BRIDGE ENGINEER
 APPROVED: *O. J. [Signature]*
 COUNTY ENGINEER

MICROFILMED

DESIGNED BY: F. Grace DATE: 5-11-28
 DRAWN BY: F. Grace DATE: 5-11-28
 TRACED BY: Quetton & Fred A. Keller Jr. DATE: June 1928
 CHECKED BY: A. R. [Signature] DATE: 6-22-28



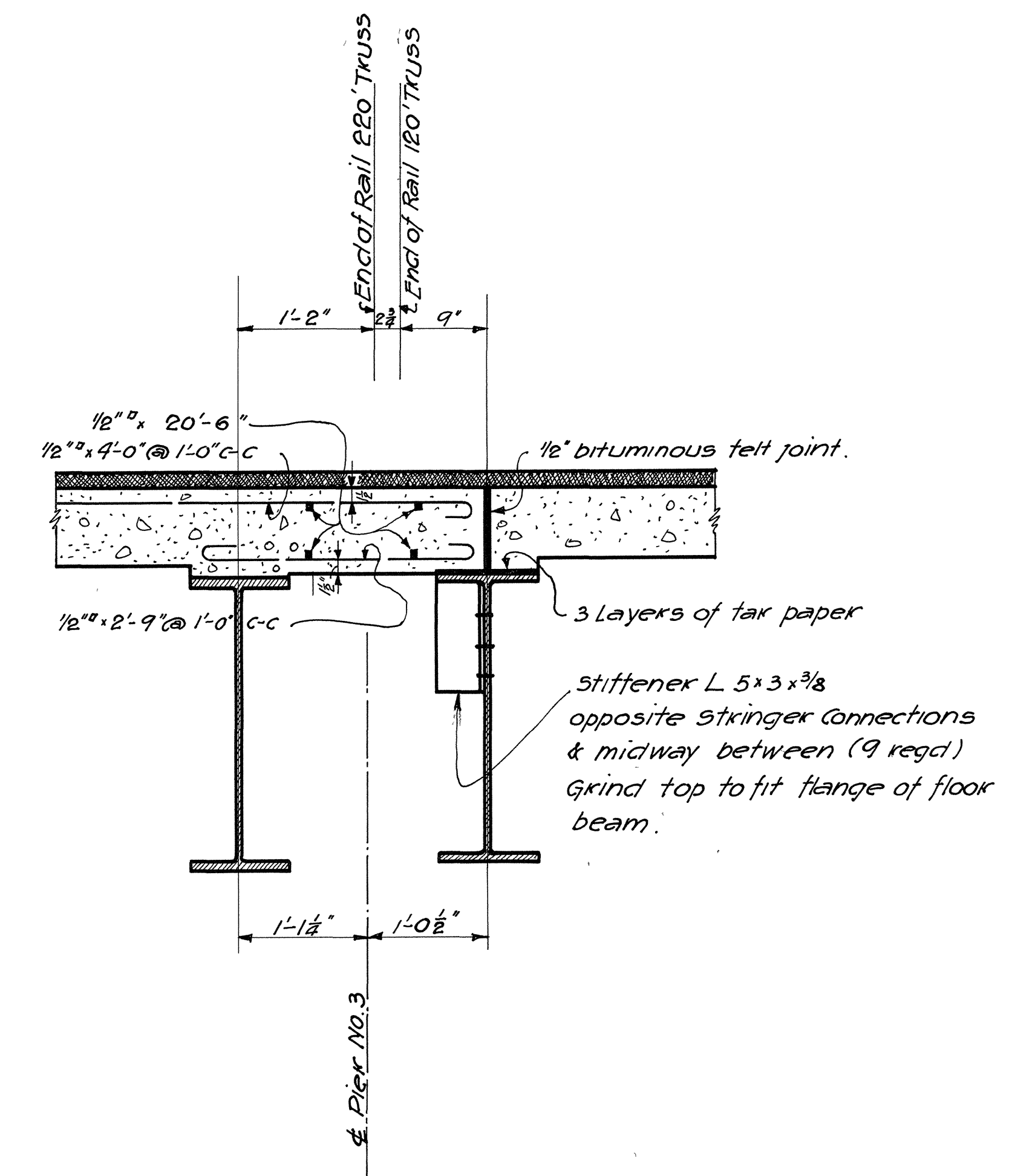
PIER NO. 2



Section x-x

EXPANSION E. E 2

NOTE:
 For Expansion details at Pier No 1 & No.4 see Drawing D-7-97.
 Rail on 120' Truss is symmetrical about \pm of span.



PIER NO. 3

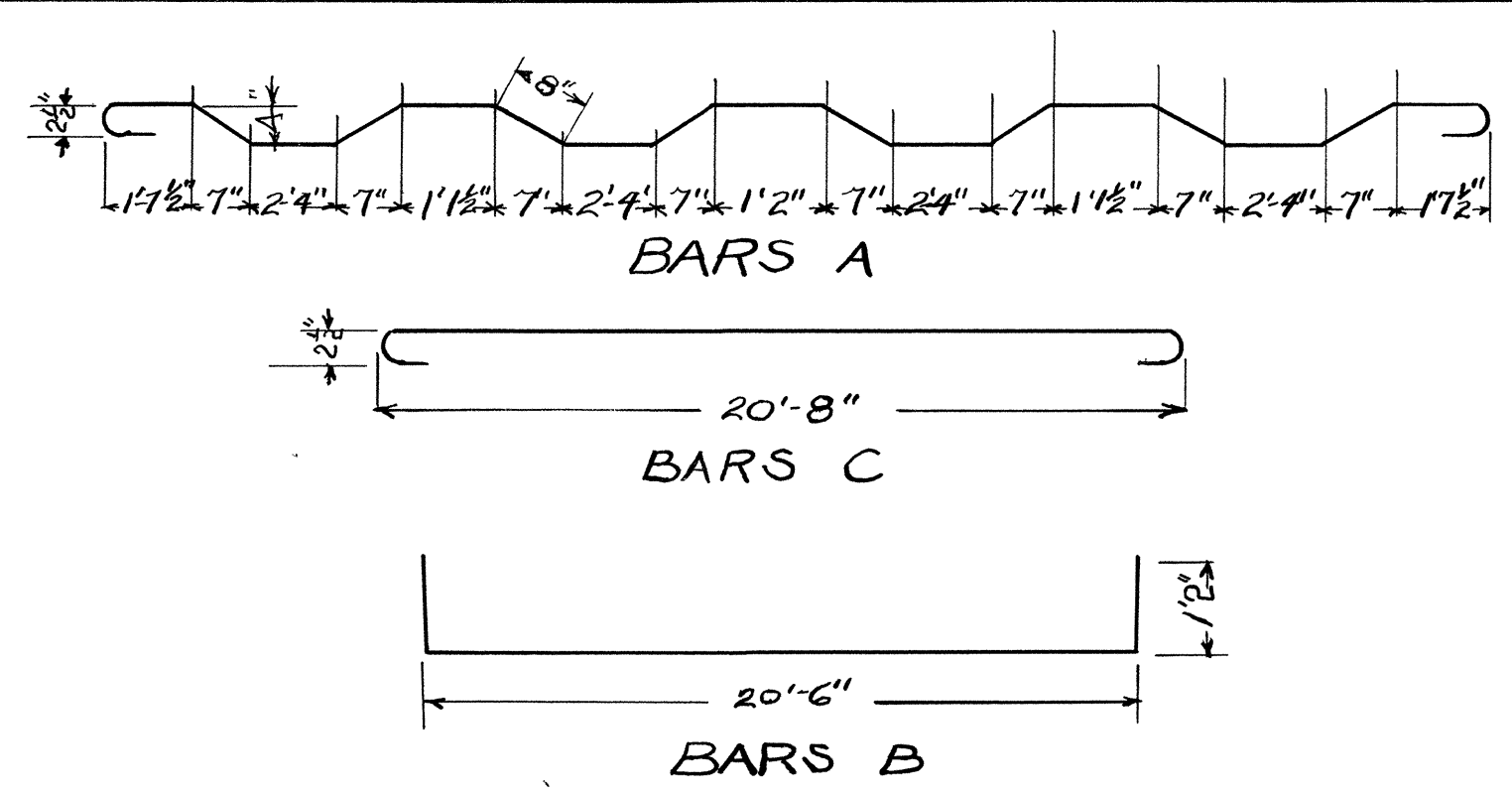
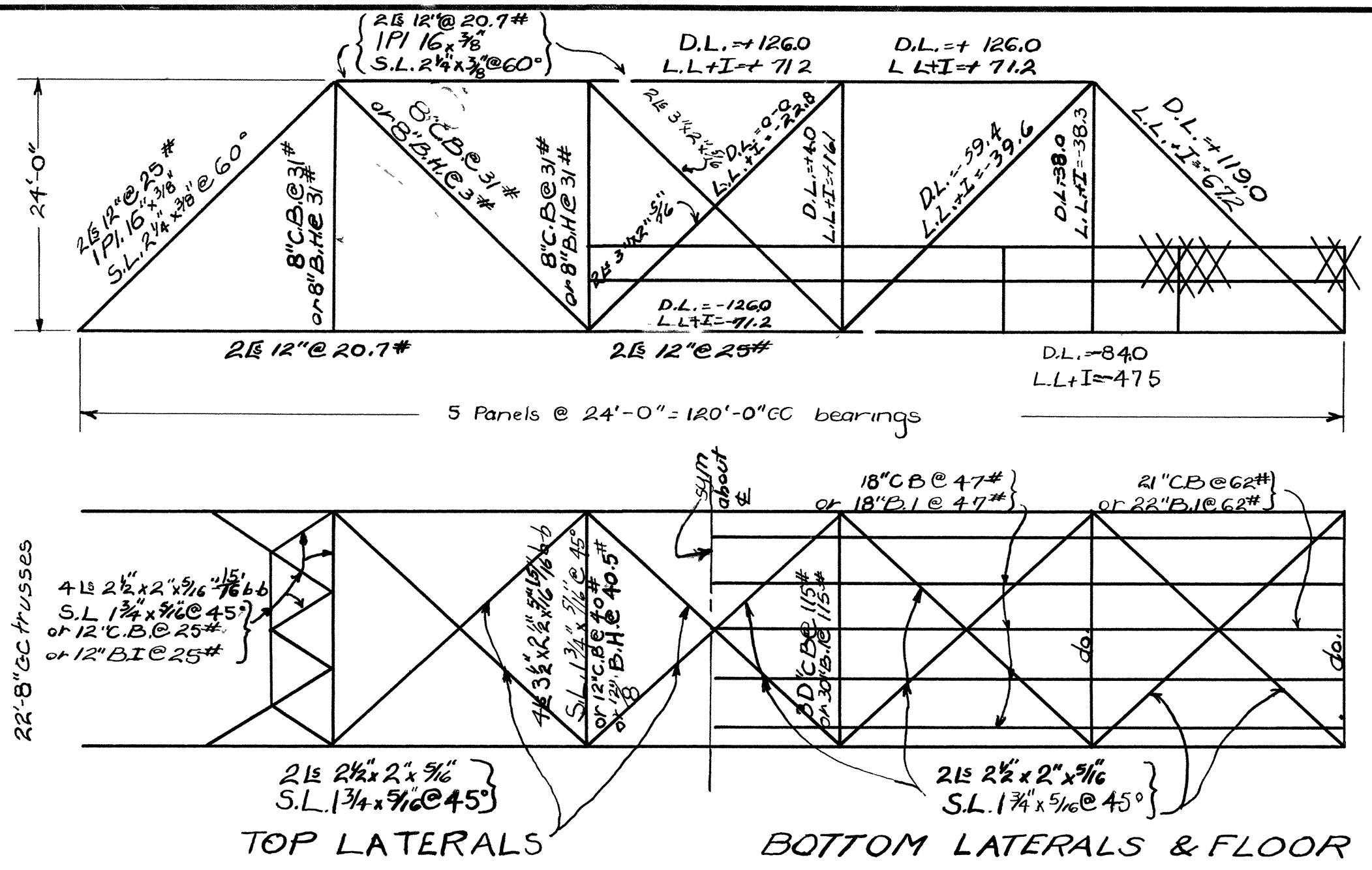
STATE OF TENNESSEE
 DEPARTMENT OF HIGHWAYS
 AND PUBLIC WORKS
 NASHVILLE

EXPANSION DETAILS
 BRIDGE OVER HIWASSEE RIVER
 STA. 43 + 03
 MEIGS CO.
 1928.

CORRECTED BY *L. H. Kendrick* BRIDGE ENGINEER
 APPROVED BY *C. J. Goff* ASSISTANT STATE HIGHWAY ENGINEER

DESIGNED BY *A. R. Gump* DATE 10-10-28
 DRAWN BY *J. A. Albert* DATE 10-11-28
 TRACED BY *J. A. Albert* DATE 10-11-28
 CHECKED BY *J. A. Albert* DATE 10-12-28

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	TENN.	291A	1934	7	12



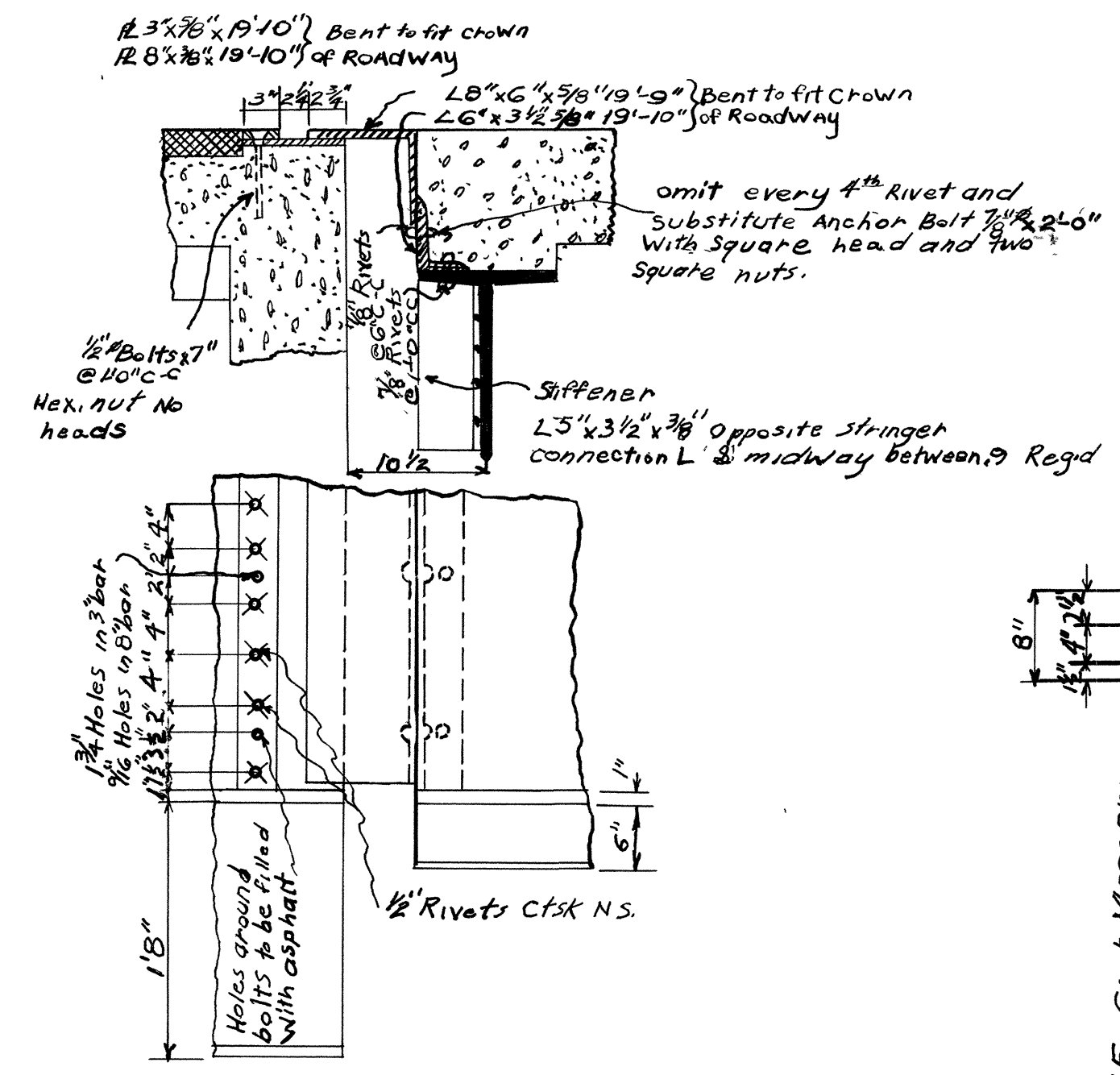
BILL OF REINFORCING STEEL

All Bars 1/2"

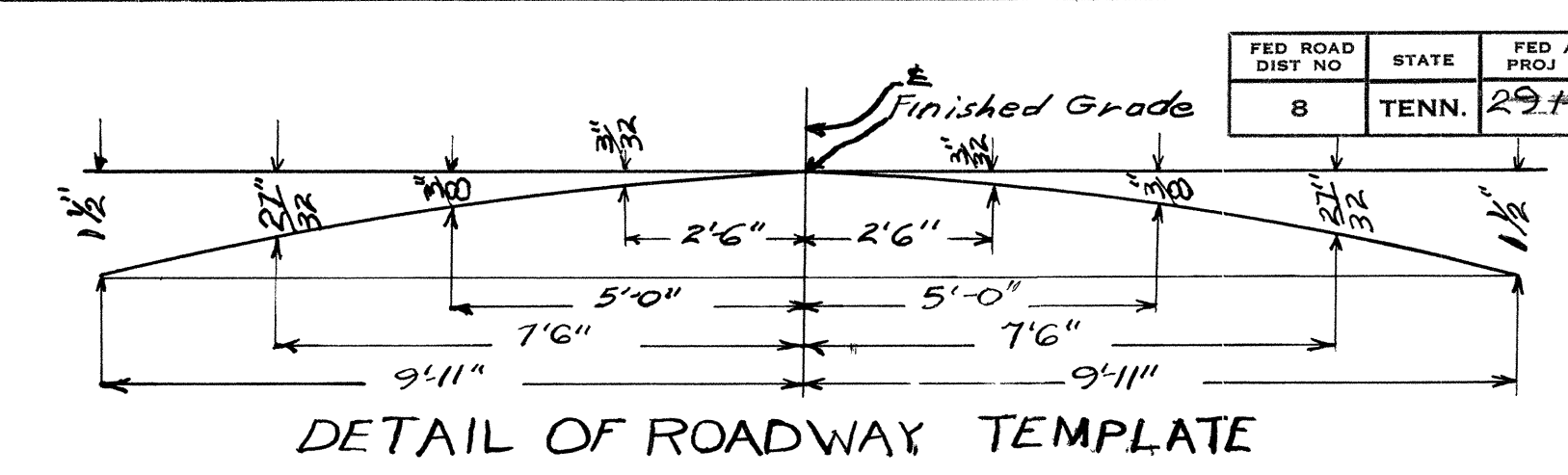
BAR NO	LENGTH
A	120 22'-2"
B	121 22'-10"
C	121 21'-6"
D	112 31'-6"

NOTE
Contractor may submit for approval details or sections of equivalent or greater strength than those given. Minimum weight designs either given or submitted and approved shall be used in computing theoretical weights. Excess weight due to use of sections or details heavier than minimum shall be deducted from scale weight to determine weight to be paid for.

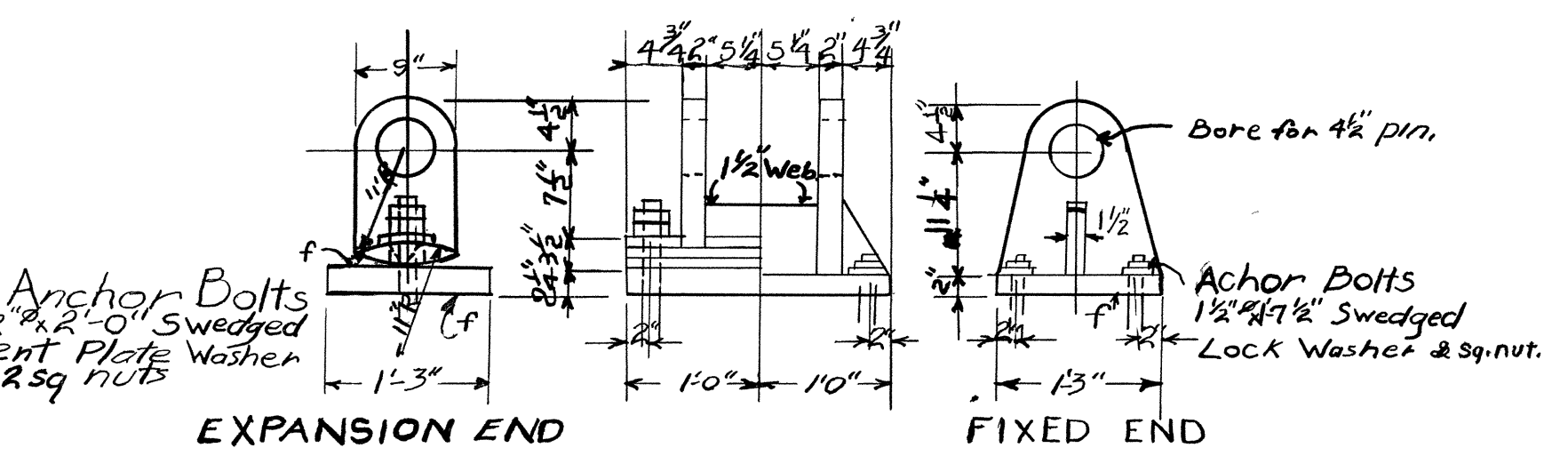
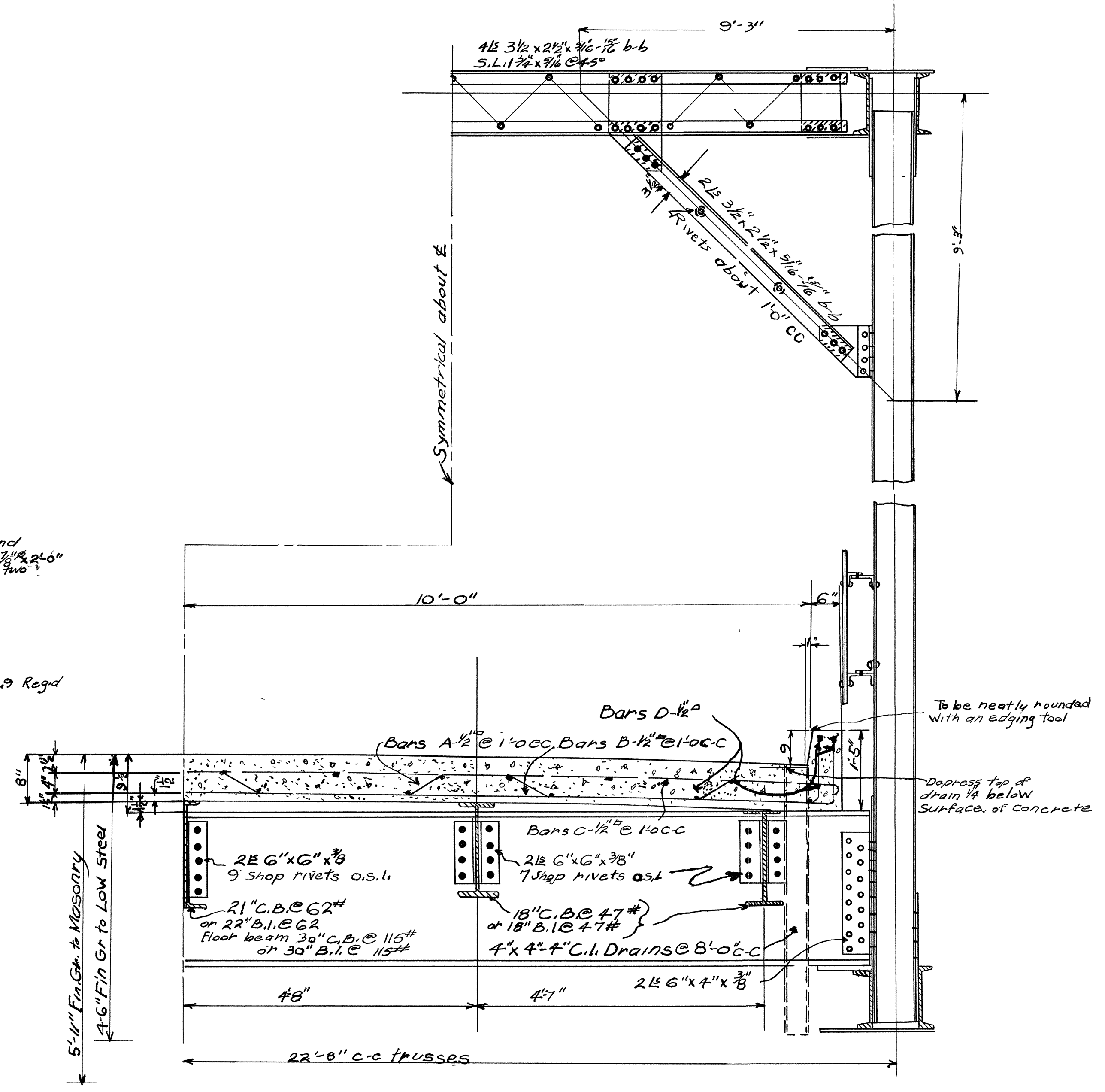
Note
Bill of reinforcing steel and concrete quantities are figured c-c of end bearings



DETAIL OF EXPANSION END for fixed end see Layout Sheet for each structure

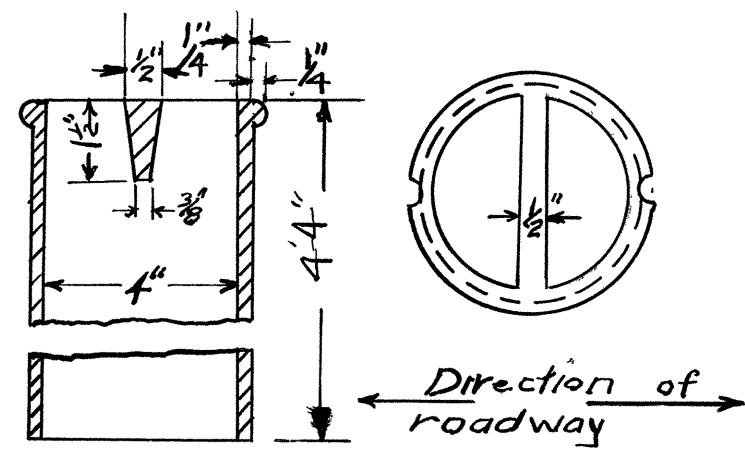


DETAIL OF ROADWAY TEMPLATE



CAST STEEL SHOES

Note 1/8" Sheet lead shall be placed under all shoes



DETAIL OF C.I. DRAINS

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE
STANDARD
RIVETED HIGH TRUSS BRIDGE
SPAN 120'-0" WITH ROADWAY 20'-0"
CONCRETE SLAB FLOOR
1928

DESIGNED BY A.R. JESSUP DATE Jan 1928
DRAWN BY ARS DATE "
TRACED BY W.A. SMITH DATE 6-12-50
CHECKED BY J.L. ALBERS DATE 2-19-28
CORRECTED BY L.W. Erickson BRIDGE ENGINEER
APPROVED BY R.H. Baker STATE HIGHWAY ENGINEER

12-12-33-2" Wearing Surface Revised
 12-4-33-5" Slab Reinforced and Barren Revised
 8-12-30 Curb and Drain Revised
 11/18 Crown of Roadway Revised to 1 1/2"

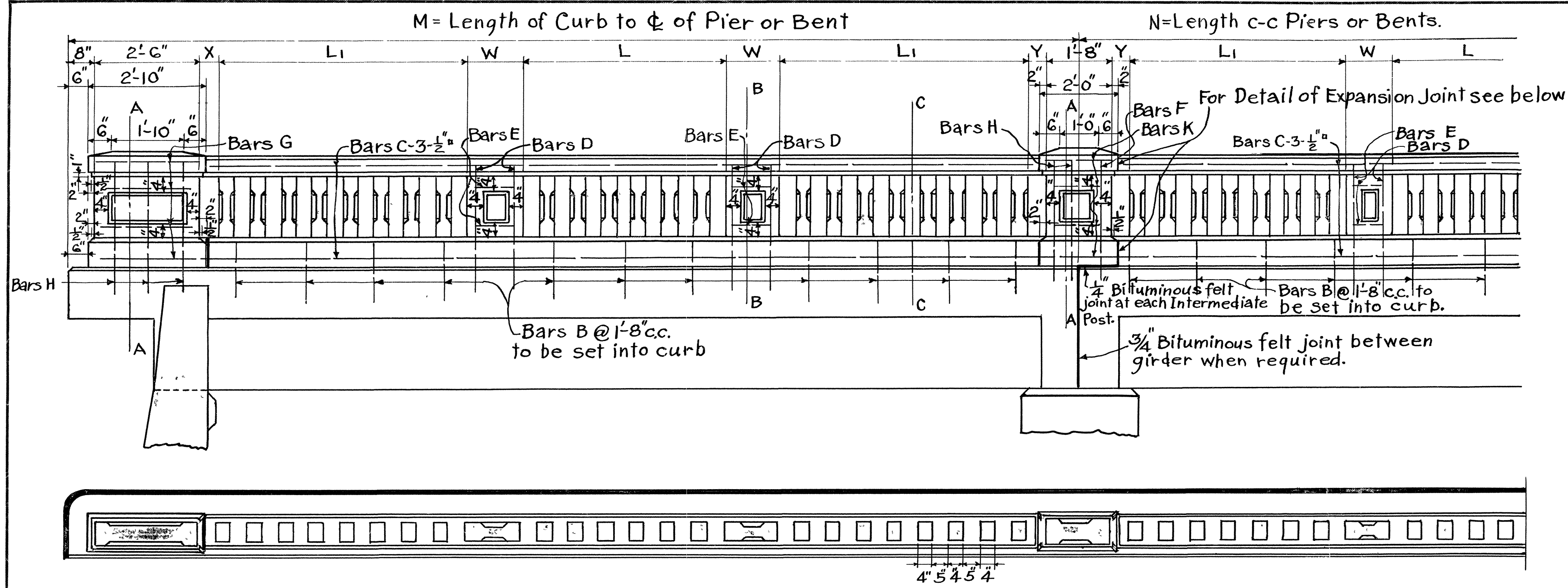


TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES FOR END SPANS

CLEAR SPAN FEET	DIMENSIONS					STEEL REINFORCEMENT ALL BARS 1/2" ϕ					ESTIMATED QUANT.						
	M	X	Y	W	L	BARS A NO. LENGTH	BARS B NO. LENGTH	BARS C NO. LENGTH	BARS D NO. LENGTH	BARS E NO. LENGTH	STEEL LBS.*	CONCRETE CU.YDS.*					
	12	16'-7"	5"	5"	1'-3"	2 @ 5'-3"	28	2'-7"	16	2'-0"	6	12'-0"	4	4'-0"	4	1'-3"	168.8
14	18'-7"	5"	5"	1'-9"	2 @ 6'-0"	32	2'-7"	16	2'-0"	6	14'-0"	4	4'-0"	4	1'-6"	189.8	1.886
16	20'-7"	5"	5"	1'-8"	2 @ 3'-9"	32	2'-7"	18	2'-0"	6	16'-0"	8	4'-0"	8	1'-5"	221.8	2.152
18	22'-7"	5 1/2"	5 1/2"	1'-6"	2 @ 4'-6"	38	2'-7"	20	2'-0"	6	18'-0"	8	4'-0"	8	1'-3"	247.7	2.419
20	24'-7"	5"	5"	1'-5"	2 @ 5'-3"	44	2'-7"	24	2'-0"	6	20'-0"	8	4'-0"	8	1'-2"	277.7	2.685
22	26'-7"	5"	5"	1'-8"	2 @ 6'-0"	48	2'-7"	24	2'-0"	6	22'-0"	8	4'-0"	8	1'-5"	298.6	2.951
24	28'-7"	5 1/2"	5 1/2"	1'-6"	2 @ 6'-9"	54	2'-7"	30	2'-0"	6	24'-0"	8	4'-0"	8	1'-3"	331.3	3.217
26	30'-7"	5"	5"	1'-5"	2 @ 7'-6"	60	2'-7"	30	2'-0"	6	26'-0"	8	4'-0"	8	1'-2"	354.4	3.483
28	32'-10"	4 1/2"	4 1/2"	1'-7"	2 @ 6'-0"	60	2'-7"	32	2'-0"	6	28'-2"	12	4'-0"	12	1'-4"	388.5	3.782
30	34'-10"	4 1/2"	4 1/2"	1'-9"	2 @ 6'-5"	64	2'-7"	32	2'-0"	6	30'-2"	12	4'-0"	12	1'-6"	409.4	4.048
32	36'-10"	4 1/2"	4 1/2"	1'-5"	2 @ 6'-9"	72	2'-7"	40	2'-0"	12	17'-0"	12	4'-0"	12	1'-2"	457.3	4.314
34	38'-10"	4 1/2"	4 1/2"	1'-7"	2 @ 7'-2"	76	2'-7"	40	2'-0"	12	18'-0"	12	4'-0"	12	1'-4"	478.1	4.581
36	40'-10"	4 1/2"	4 1/2"	1'-9"	2 @ 7'-6"	80	2'-7"	40	2'-0"	12	19'-0"	12	4'-0"	12	1'-6"	499.1	4.847
38	42'-10"	5 1/2"	5 1/2"	1'-8"	2 @ 6'-0"	80	2'-7"	40	2'-0"	12	20'-0"	16	4'-0"	16	1'-5"	527.3	5.113
40	44'-10"	4"	4"	1'-8"	2 @ 6'-0"	86	2'-7"	40	2'-0"	12	21'-0"	16	4'-0"	16	1'-5"	560.6	5.379
50	54'-10"	4 1/2"	4 1/2"	1'-7"	2 @ 6'-9"	108	2'-7"	48	2'-0"	12	26'-0"	20	4'-0"	20	1'-4"	682.6	6.722
60	64'-10"	4 1/2"	4 1/2"	1'-5"	2 @ 6'-0"	132	2'-7"	66	2'-0"	12	31'-0"	24	4'-0"	24	1'-2"	833.3	8.053

TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES FOR INTERMEDIATE SPANS

CLEAR SPAN FEET	DIMENSIONS					STEEL REINFORCEMENT ALL BARS 1/2" ϕ					ESTIMATED QUANTITIES						
	N	Y	W	L1	L	BARS A NO. LENGTH	BARS B NO. LENGTH	BARS C NO. LENGTH	BARS D NO. LENGTH	BARS E NO. LENGTH	STEEL LBS.*	CONCRETE CU.YDS.*					
	12	14'-6"	5"	1'-6"	2 @ 5'-3"	—	28	2'-7"	16	2'-0"	6	12'-2"	4	4'-0"	4	1'-3"	170.5
14	16'-6"	5"	2'-0"	2 @ 6'-0"	—	32	2'-7"	16	2'-0"	6	14'-2"	4	4'-0"	4	1'-9"	191.5	1.920
16	18'-6"	5"	1'-5"	2 @ 4'-6"	1 @ 4'-2"	34	2'-7"	18	2'-0"	6	16'-2"	8	4'-0"	8	1'-2"	225.4	2.185
18	20'-6"	5"	1'-8"	2 @ 4'-6"	1 @ 5'-8"	38	2'-7"	20	2'-0"	6	18'-2"	8	4'-0"	8	1'-5"	249.8	2.451
20	22'-6"	5 1/2"	1'-6"	2 @ 5'-3"	1 @ 6'-5"	44	2'-7"	24	2'-0"	6	20'-2"	8	4'-0"	8	1'-3"	279.1	2.717
22	24'-6"	5"	1'-5"	2 @ 6'-0"	1 @ 7'-2"	50	2'-7"	24	2'-0"	6	22'-2"	8	4'-0"	8	1'-2"	305.6	2.983
24	26'-6"	5"	1'-8"	2 @ 6'-9"	1 @ 7'-2"	54	2'-7"	30	2'-0"	6	24'-2"	8	4'-0"	8	1'-5"	333.4	3.250
26	28'-6"	5 1/2"	1'-6"	2 @ 7'-6"	1 @ 7'-11"	60	2'-7"	30	2'-0"	6	26'-2"	8	4'-0"	8	1'-3"	355.8	3.516
28	31'-0"	4 1/2"	1'-9"	2 @ 6'-0"	2 @ 5'-8"	60	2'-7"	32	2'-0"	6	28'-8"	12	4'-0"	12	1'-6"	392.8	3.849
30	33'-0"	4 1/2"	1'-11"	2 @ 6'-0"	2 @ 6'-5"	64	2'-7"	32	2'-0"	6	30'-8"	12	4'-0"	12	1'-8"	413.8	4.115
32	35'-0"	4 1/2"	1'-7"	2 @ 6'-9"	2 @ 7'-2"	72	2'-7"	40	2'-0"	12	17'-2"	12	4'-0"	12	1'-4"	460.7	4.381
34	37'-0"	4 1/2"	1'-9"	2 @ 7'-6"	2 @ 7'-2"	76	2'-7"	40	2'-0"	12	18'-2"	12	4'-0"	12	1'-6"	481.7	4.647
36	39'-0"	4 1/2"	1'-11"	2 @ 7'-6"	2 @ 7'-11"	80	2'-7"	40	2'-0"	12	19'-2"	12	4'-0"	12	1'-8"	502.6	4.914
38	41'-0"	4 1/2"	1'-10"	2 @ 6'-0"	3 @ 6'-5"	80	2'-7"	40	2'-0"	12	20'-2"	16	4'-0"	16	1'-7"	531.2	5.180
40	43'-0"	5"	1'-9"	2 @ 6'-0"	3 @ 7'-2"	86	2'-7"	46	2'-0"	12	21'-2"	16	4'-0"	16	1'-6"	564.0	5.446
50	53'-0"	5"	1'-8"	2 @ 6'-9"	4 @ 7'-2"	108	2'-7"	48	2'-0"	12	26'-2"	20	4'-0"	20	1'-5"	684.3	6.788
60	63'-0"	4 1/2"	1'-6"	2 @ 6'-0"	5 @ 7'-11"	132	2'-7"	66	2'-0"	12	31'-2"	24	4'-0"	24	1'-3"	836.7	8.119

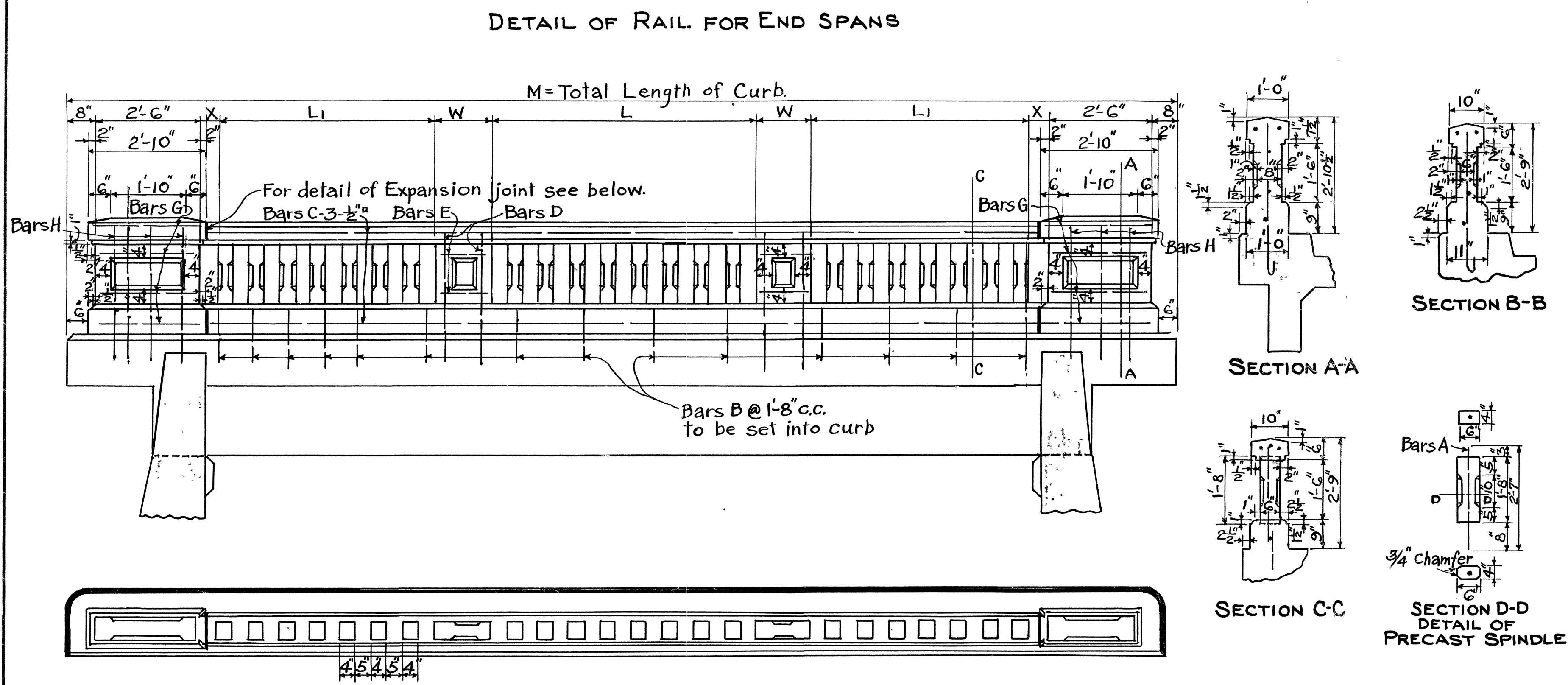


TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES FOR RAIL ON SINGLE SPAN STRUCTURES

CLEAR SPAN FEET	DIMENSIONS					STEEL REINFORCEMENT ALL BARS 1/2" ϕ					ESTIMATED QUANT.						
	M	X	W	L1	L	BARS A NO. LENGTH	BARS B NO. LENGTH	BARS C NO. LENGTH	BARS D NO. LENGTH	BARS E NO. LENGTH	STEEL LBS.*	CONCRETE CU.YDS.*					
	12	18'-8"	5"	1'-0"	2 @ 5'-3"	—	28	2'-7"	16	2'-0"	6	11'-8"	4	4'-0"	4	0'-9"	166.2
14	20'-8"	5"	1'-6"	2 @ 6'-0"	—	32	2'-7"	16	2'-0"	6	13'-8"	4	4'-0"	4	1'-3"	187.1	1.853
16	22'-8"	5 1/2"	1'-6"	2 @ 3'-9"	1 @ 4'-11"	32	2'-7"	18	2'-0"	6	15'-8"	8	4'-0"	8	1'-3"	218.9	2.119
18	24'-8"	5"	1'-5"	2 @ 4'-6"	1 @ 5'-8"	38	2'-7"	20	2'-0"	6	17'-8"	8	4'-0"	8	1'-2"	245.4	2.385
20	26'-8"	5 1/2"	1'-3"	2 @ 5'-3"	1 @ 6'-5"	44	2'-7"	24	2'-0"	6	19'-8"	8	4'-0"	8	1'-0"	274.8	2.651
22	28'-8"	5 1/2"	1'-6"	2 @ 6'-0"	1 @ 6'-5"	48	2'-7"	24	2'-0"	6	21'-8"	8	4'-0"	8	1'-3"	295.7	2.918
24	30'-8"	5"	1'-5"	2 @ 6'-9"	1 @ 7'-2"	54	2'-7"	30	2'-0"	6	23'-8"	8	4'-0"	8	1'-2"	329.1	3.184
26	32'-8"	5 1/2"	1'-3"	2 @ 7'-6"	1 @ 7'-11"	60	2'-7"	30	2'-0"	6	25'-8"	8	4'-0"	8	1'-0"	351.6	3.450
28	34'-8"	4 1/2"	1'-5"	2 @ 6'-0"	2 @ 5'-8"	60	2'-7"	32	2'-0"	6	27'-8"	12	4'-0"	12	1'-2"	384.2	3.716
30	36'-8"	4 1/2"	1'-7"	2 @ 6'-0"	2 @ 6'-5"	64	2'-7"	32	2'-0"	6	29'-8"	12	4'-0"	12	1'-4"	405.1	3.982
32	38'-8"	4 1/2"	1'-3"	2 @ 6'-9"	2 @ 7'-2"	72	2'-7"	40	2'-0"	12	16'-8"	12	4'-0"	12	1'-0"	452.1	4.243
34	40'-8"	4 1/2"	1'-5"	2 @ 7'-6"	2 @ 7'-2"	76	2'-7"	40	2'-0"	12	17'-8"	12	4'-0"	12	1'-2"	473.1	4.515
36	42'-8"	4 1/2"	1'-7"	2 @ 7'-6"	2 @ 7'-11"	80	2'-7"	40	2'-0"	12	18'-8"	12	4'-0"	12	1'-4"	493.9	4.780
38	44'-8"	4 1/2"	1'-7"	2 @ 6'-0"	3 @ 6'-5"	80	2'-7"	40	2'-0"	12	19'-8"	16	4'-0"	16	1'-4"	522.6	5.046
40	46'-8"	5"	1'-6"	2 @ 6'-0"	3 @ 7'-2"	86	2'-7"	46	2'-0"	12	20'-8"	16	4'-0"	16	1'-3"	555.4	5.312
50	56'-8"	4"	1'-6"	2 @ 6'-9"	4 @ 7'-2"	108	2'-7"	48	2'-0"	12	25'-8"	20	4'-0"	20	1'-3"	677.7	6.655
60	66'-8"	4 1/2"	1'-4"	2 @ 6'-0"	5 @ 7'-11"	132	2'-7"	66	2'-0"	12	30'-8"	24	4'-0"	24	1'-1"	828.2	7.986

BILL OF STEEL AND ESTIMATED QUANTITIES FOR TWO RAIL POSTS AS LISTED

Description	Mark	No.	SIZE	LENGTH	STEEL LBS.	CONCRETE CU.YDS.
Post at End of Span	G	10	1/2" ϕ	2'-3"	39.5	.45
Intermediate Posts.	H	6	1/2" ϕ	4'-0"		
	F	2	1/2" ϕ	2'-6"		
	H	4	1/2" ϕ	4'-0"	29.9	.32
	K	10	1/2" ϕ	1'-5"		

* See also quantities for rail posts.

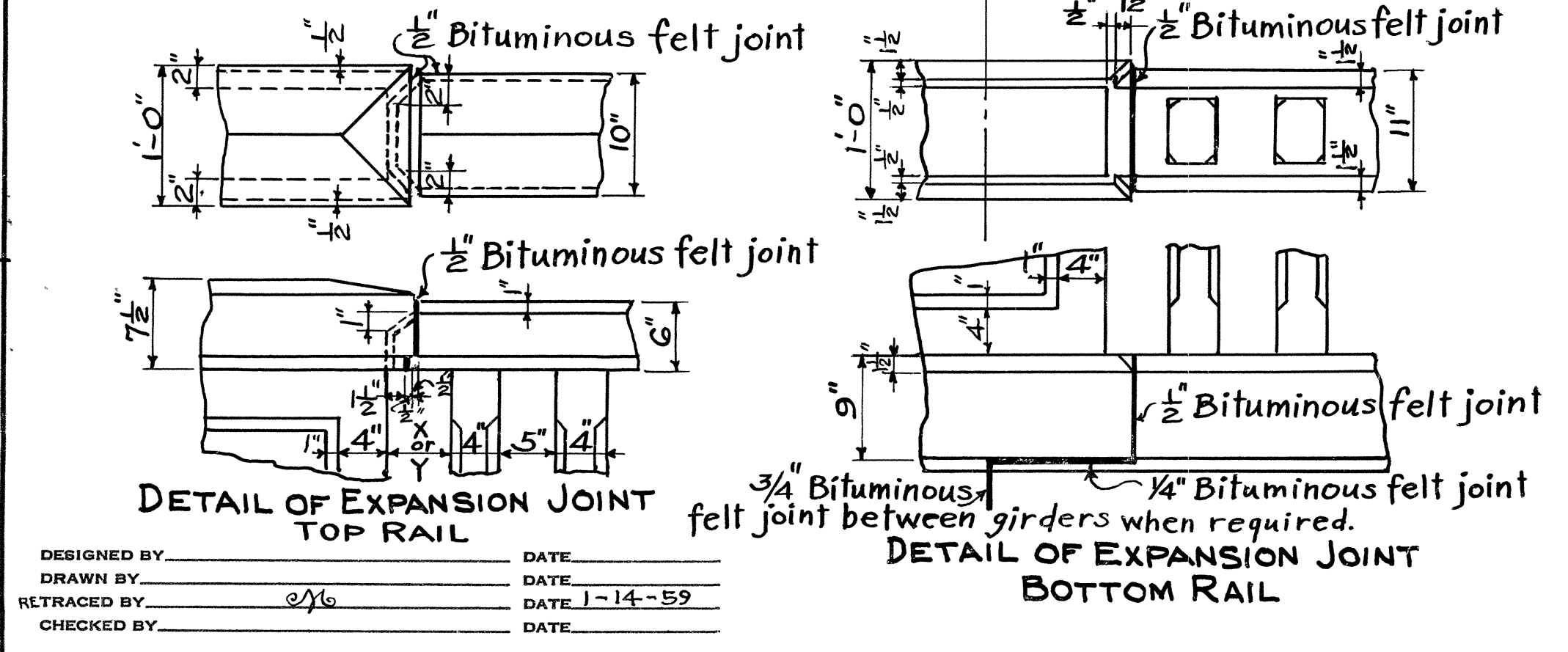
GENERAL NOTES:
 Specifications: Standard Road and Bridge Specifications of the Tennessee Department of Highways and Public Works.
 Concrete shall be Class "S".
 Reinforcing Steel: See Specifications.
 Forms and Finish: See Specifications.

Spindles shall be precast in steel forms & shall not be handled for seven days after they have been poured. Top surfaces of spindles, as they lie in their molds, when cast in a horizontal position, shall be carefully floated to a true plane before the concrete obtains its permanent set.

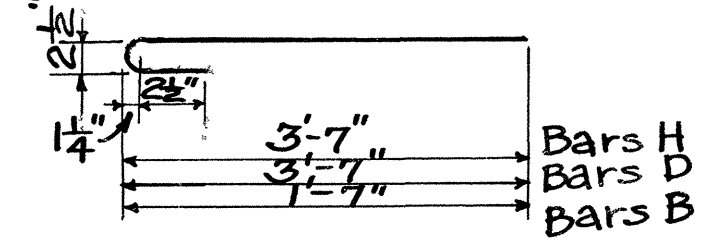
SPECIAL NOTE:
 Handrail to be built as detailed, no chamfer shall be used unless specifically shown.

STATE OF TENNESSEE
 DEPARTMENT OF HIGHWAYS
 AND PUBLIC WORKS
 NASHVILLE

STANDARD CONCRETE HANDRAIL
 SPINDLE TYPE
 FOR SLAB AND GIRDER BRIDGES
 1925



DESIGNED BY _____ DATE _____
 DRAWN BY _____ DATE _____
 RETRACED BY _____ DATE 1-14-59
 CHECKED BY _____ DATE _____



50 & 60 Span added & Reinforcing Steel revised for new weights 7/3/51
 Revises - Special Note Added 2/16/29.