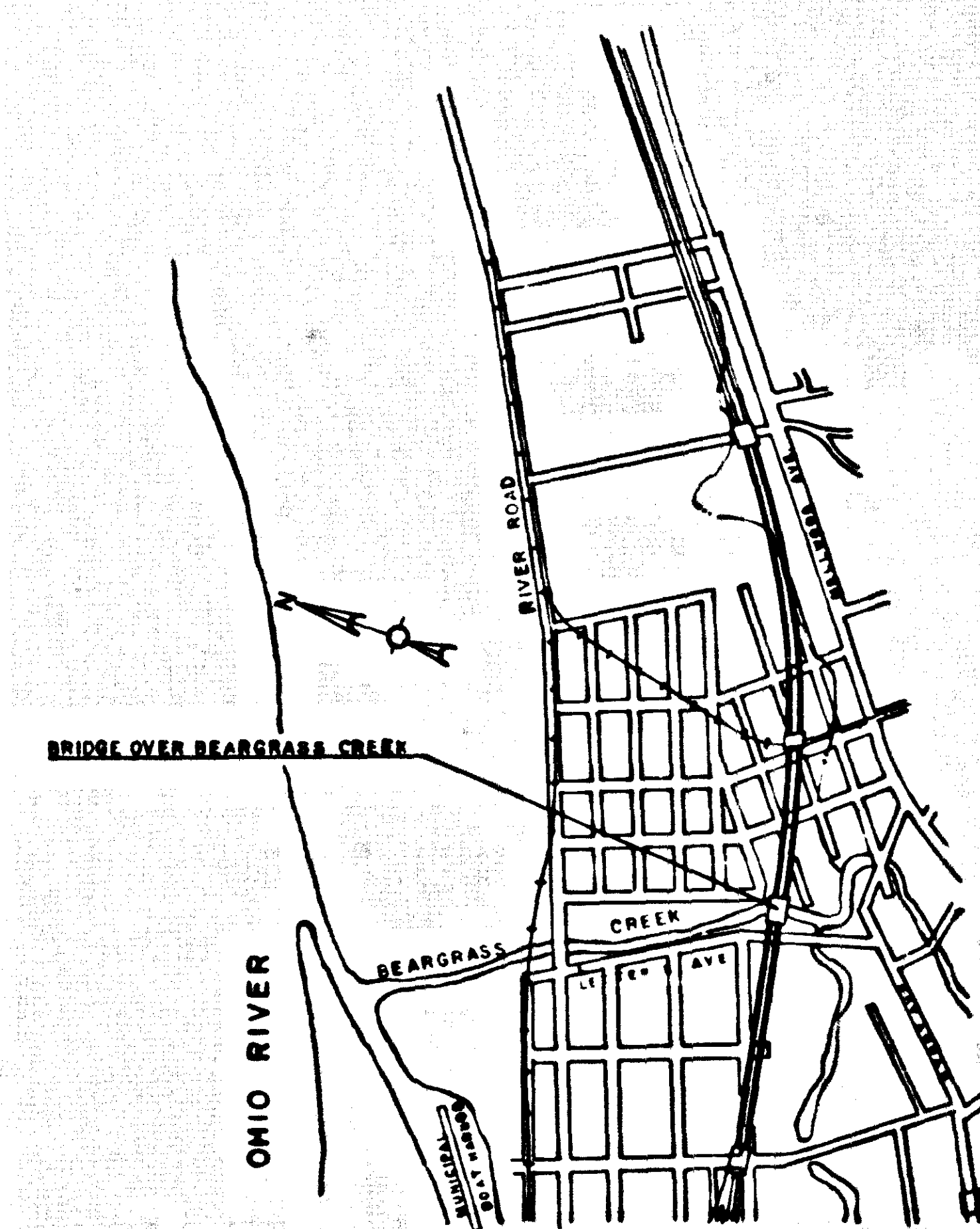


FED ROAD DIST	STATE	FED AID PRO NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

SEARCHED BY _____ INDEXED BY _____ SERIALIZED BY _____ FILED BY _____	DATE _____ MAR 3 64 MAR 2 1964	CHECKED BY _____ CHECKED BY MOC CHECKED BY MOC	FILE NO. 871-C HAZELT & SHERAL CONSULTING ENGINEERS FILE NO. 871-C
--	--------------------------------------	--	---



LOCATION MAP



1000 0 1000

SCALE IN FEET

REFERENCES

Note

For Bill of Incidental Material And References
For Standard Plans & Special Provisions, See Sheet No. 2

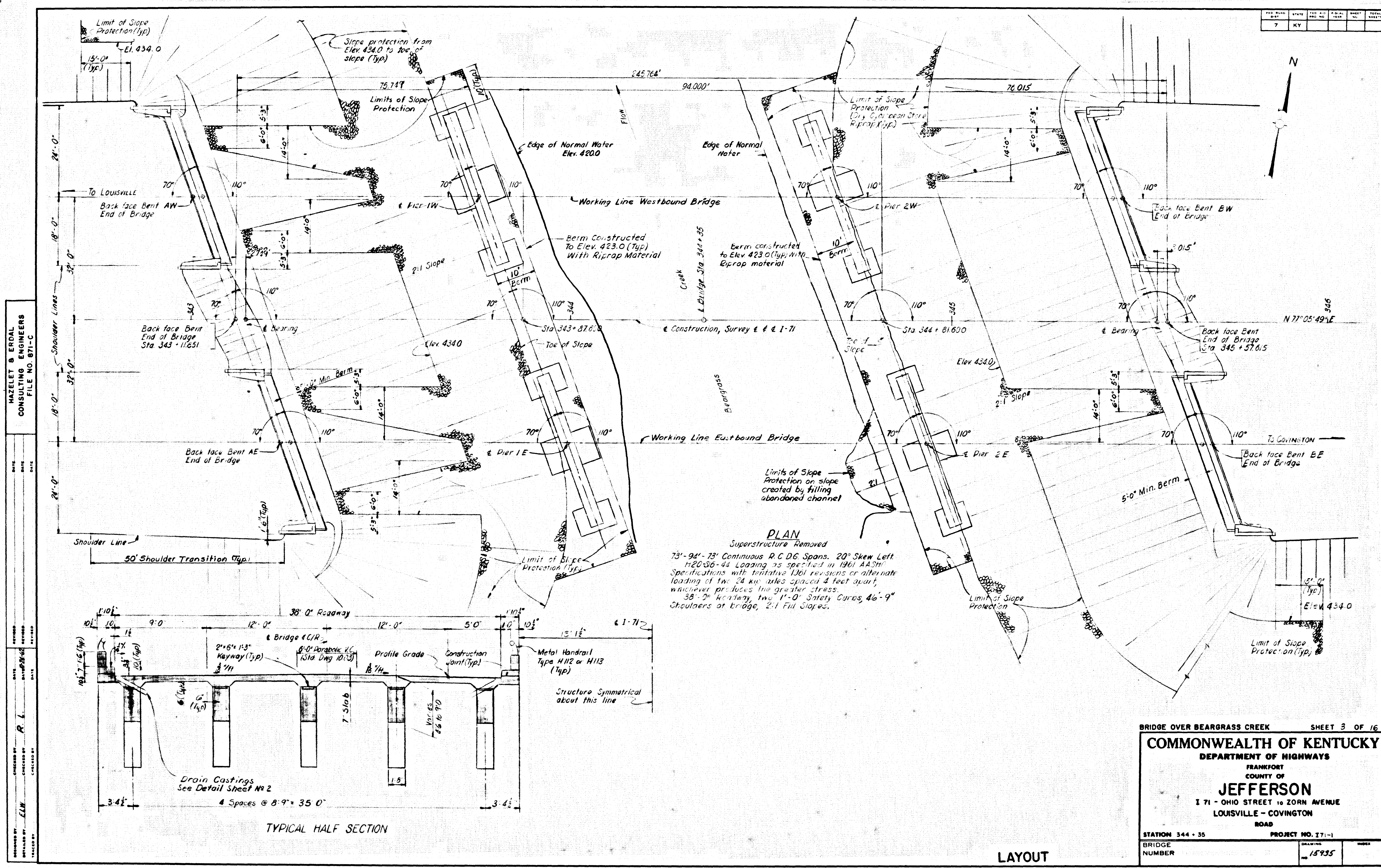
BRIDGE OVER BEAR GRASS CREEK SHEET 1 OF 6

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
JEFFERSON
I 71 - OHIO STREET TO ZORN AVENUE
LOUISVILLE - COVINGTON

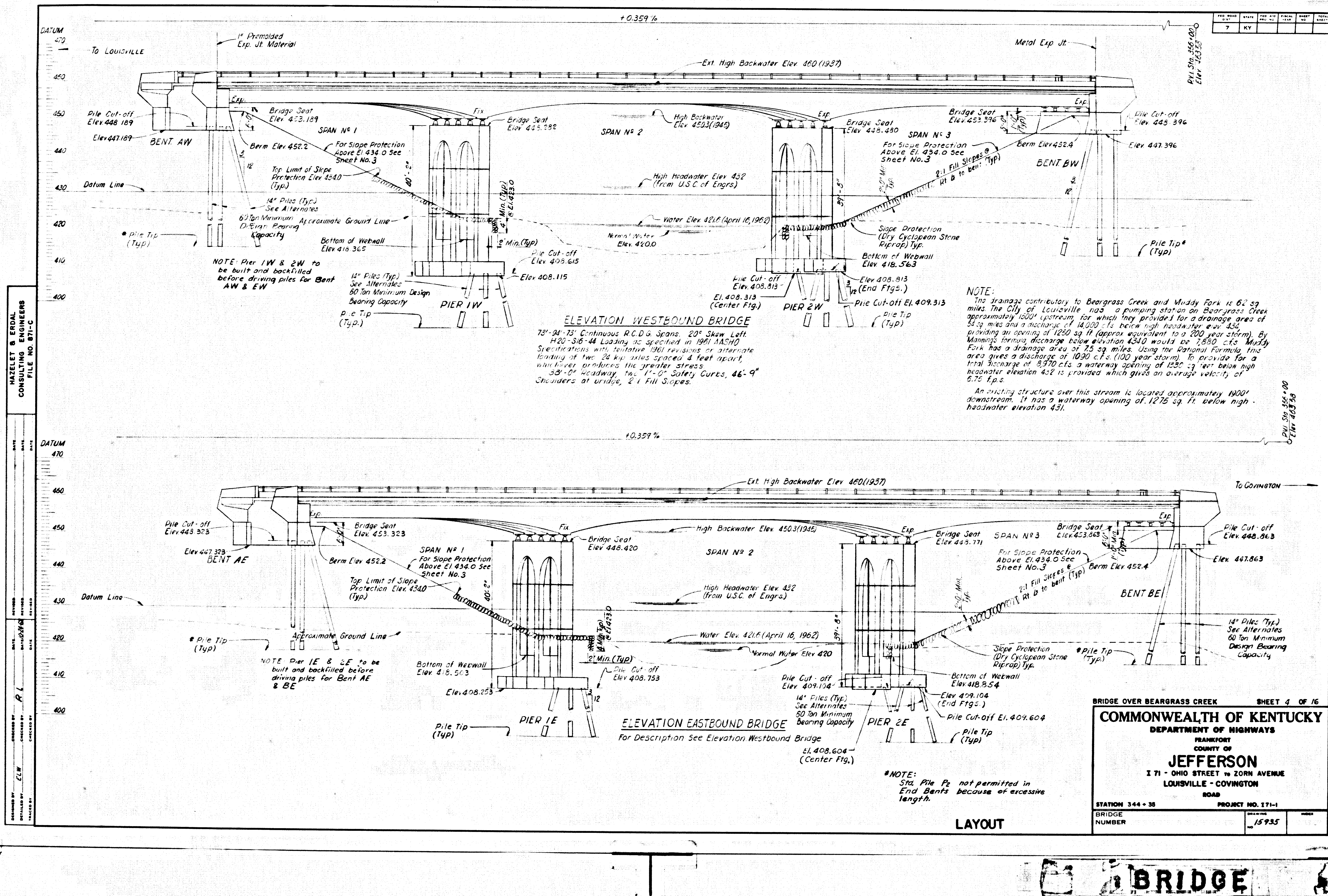
STATION 344 + 35		ROAD PROJECT NO. 77-1100	SP56-313-L2
BRIDGE NUMBER		DRAWING NO. 15935	DATE

TITLE SHEET

BRIDGE

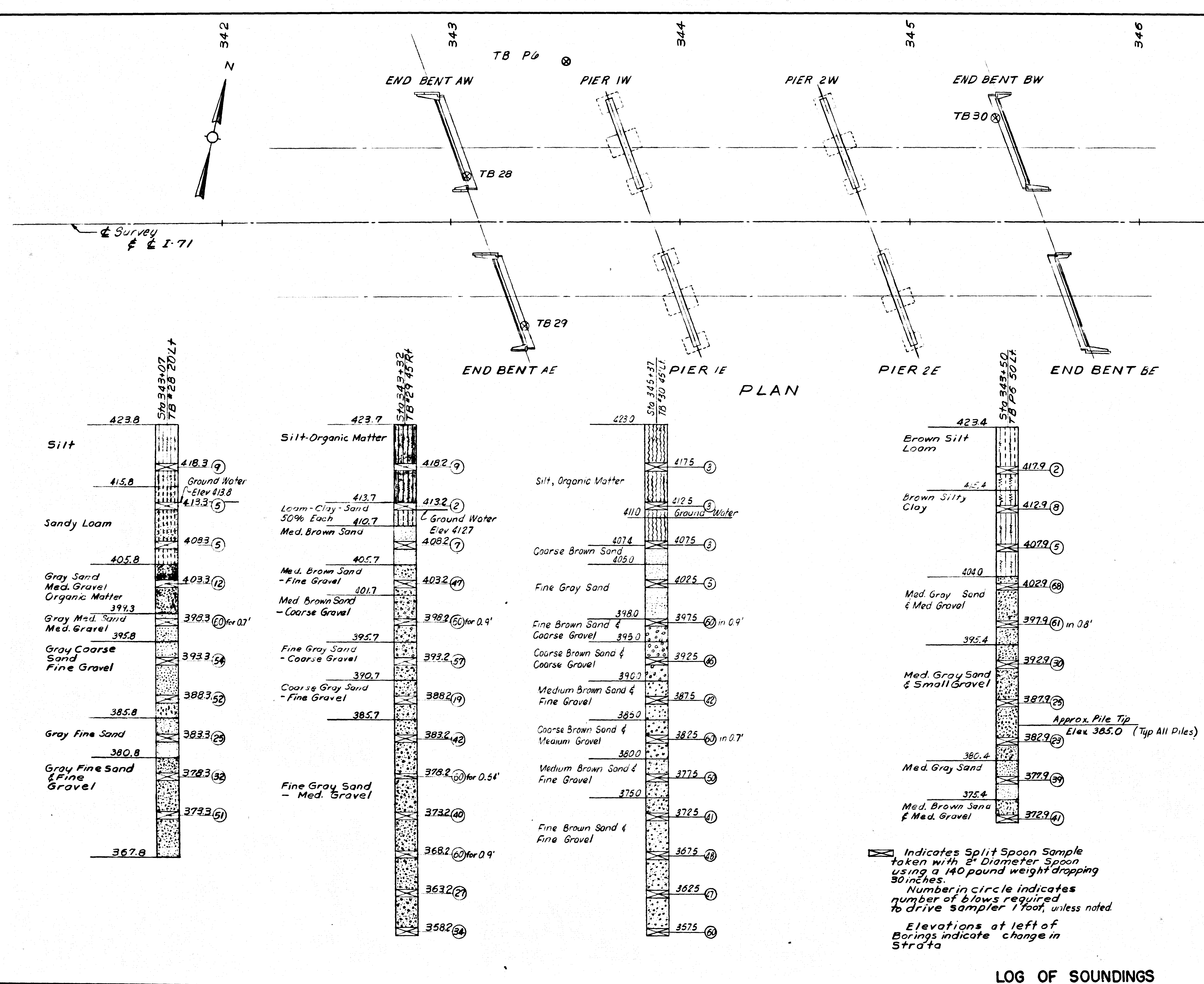


BRIDGE



HAZELET & ERDAL
CONSULTING ENGINEERS
FILE NO. 871-C

DATE: 5/2/52
REVIEWED: 5/2/52
DATE: 5/2/52
CHECKED BY: G.J.N.
DATE: 5/2/52
CHECKED BY: MDC



Indicates Split Spoon Sample taken with 2" Diameter Spoon using a 140 pound weight dropping 30 inches.
 Number in circle indicates number of blows required to drive sampler 1 foot, unless noted.
 Elevations at left of Borings indicate change in Strata

BRIDGE OVER BEARGRASS CREEK SHEET 5 OF 16

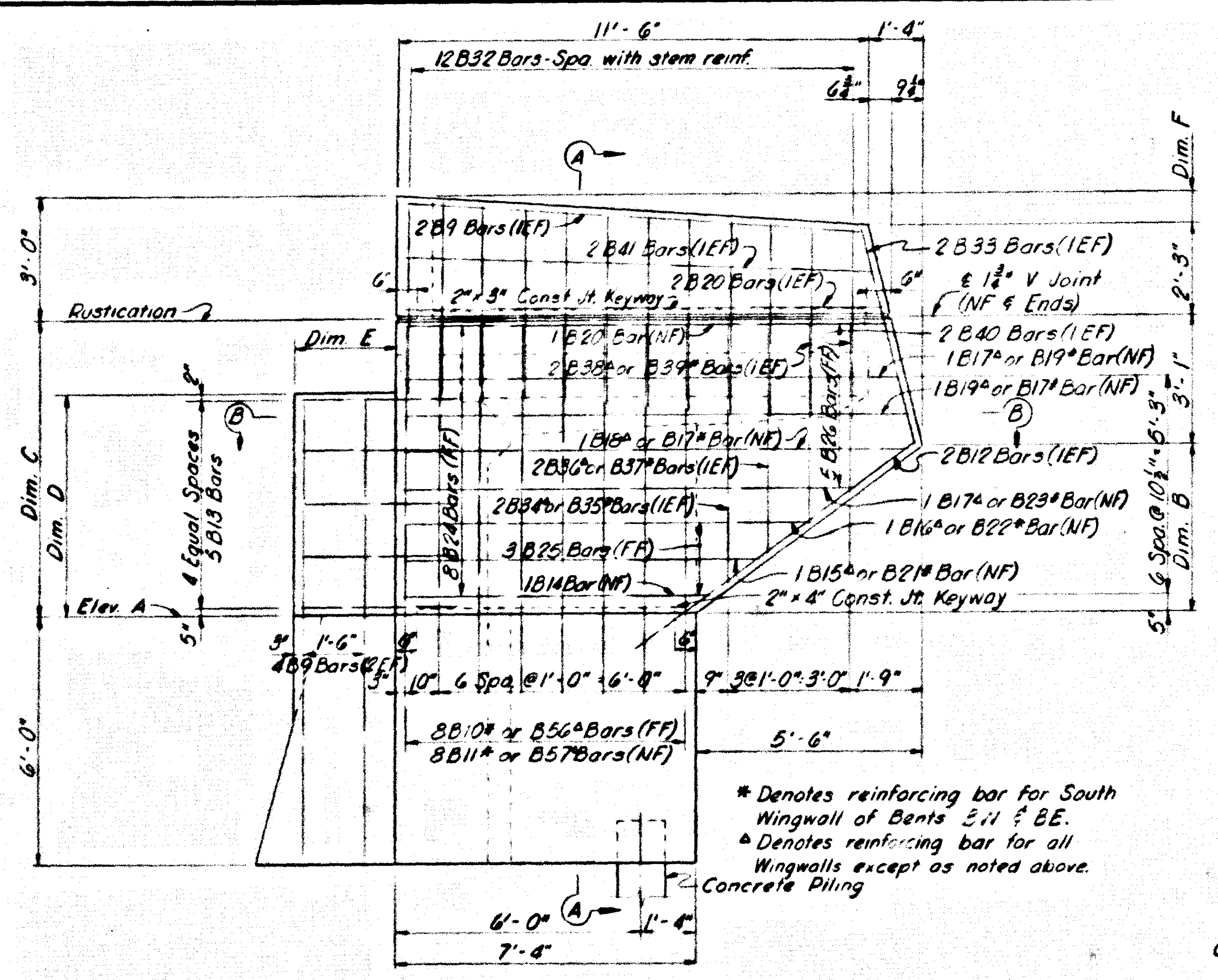
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
JEFFERSON
I 71 - OHIO STREET TO ZORN AVENUE
LOUISVILLE - COVINGTON
ROAD

STATION 344 + 35 PROJECT NO. I 71-1
BRIDGE NUMBER DRAWING 15 935

BRIDGE

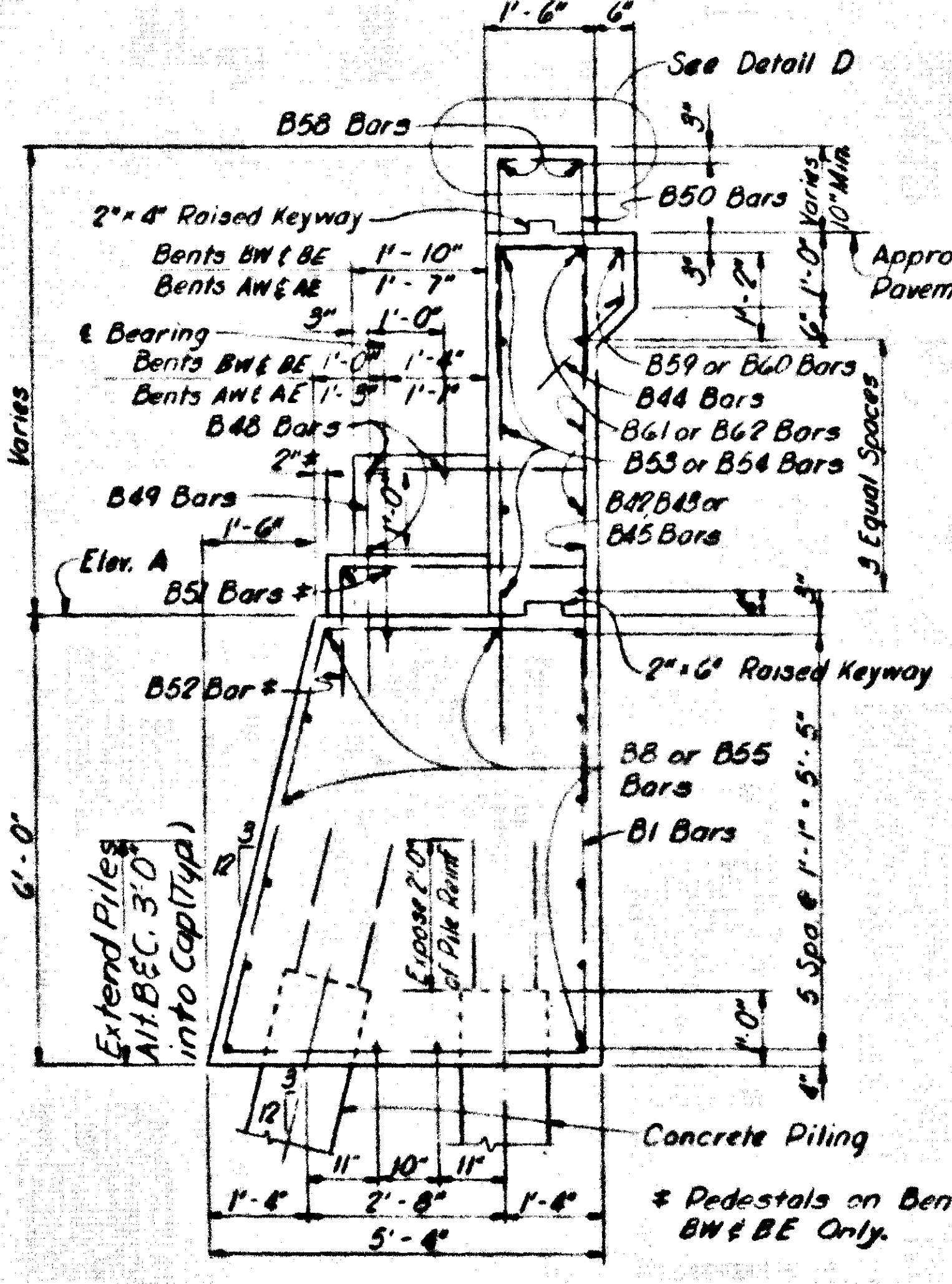
HAZELET & ERDAL
CONSULTING ENGINEERS
FILE NO. 871-C

DATE: 11-1-68
BY: J.E.M.
CHECKED BY: J.E.M.
DATE: 11-1-68

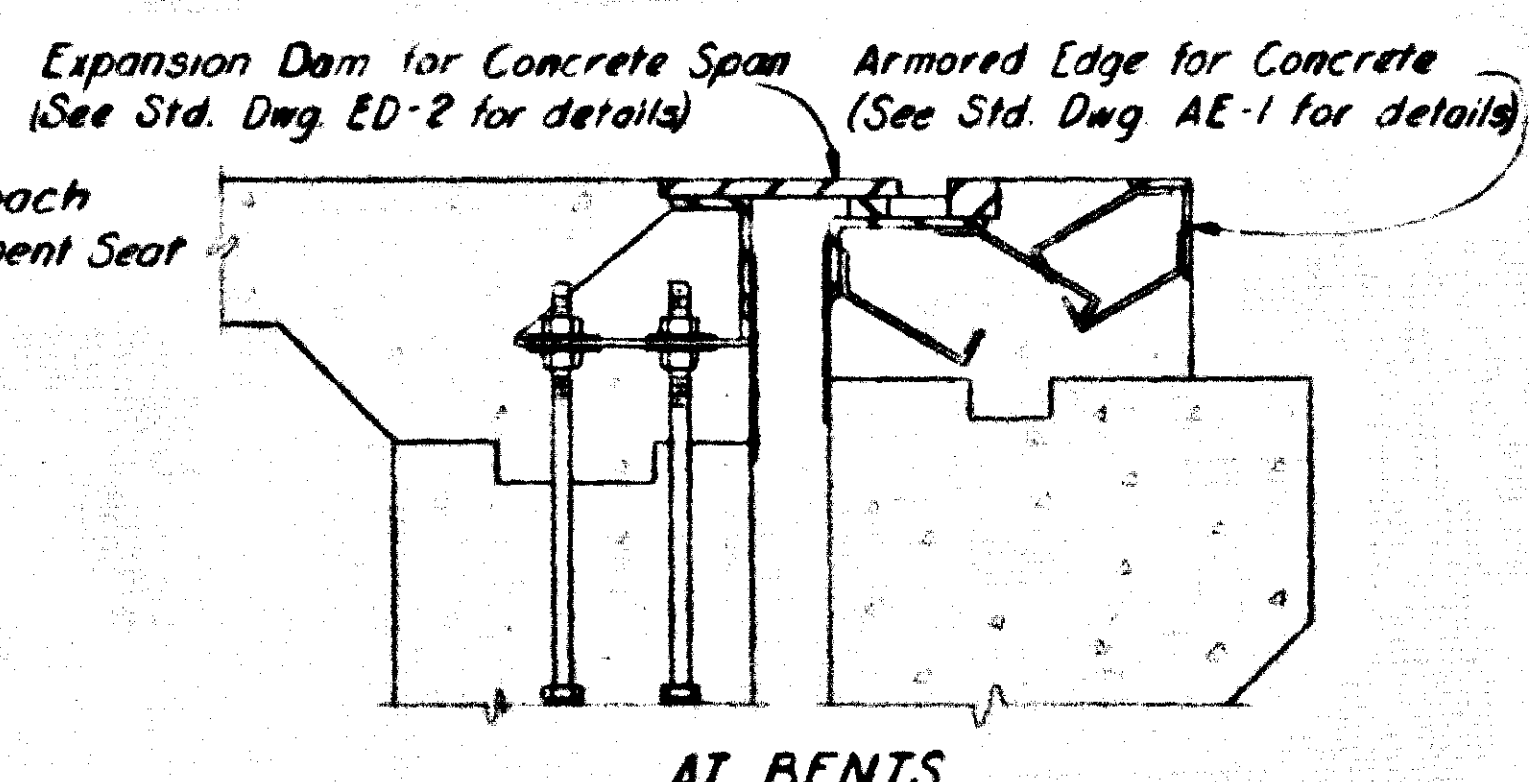


WINGWALL ELEVATION

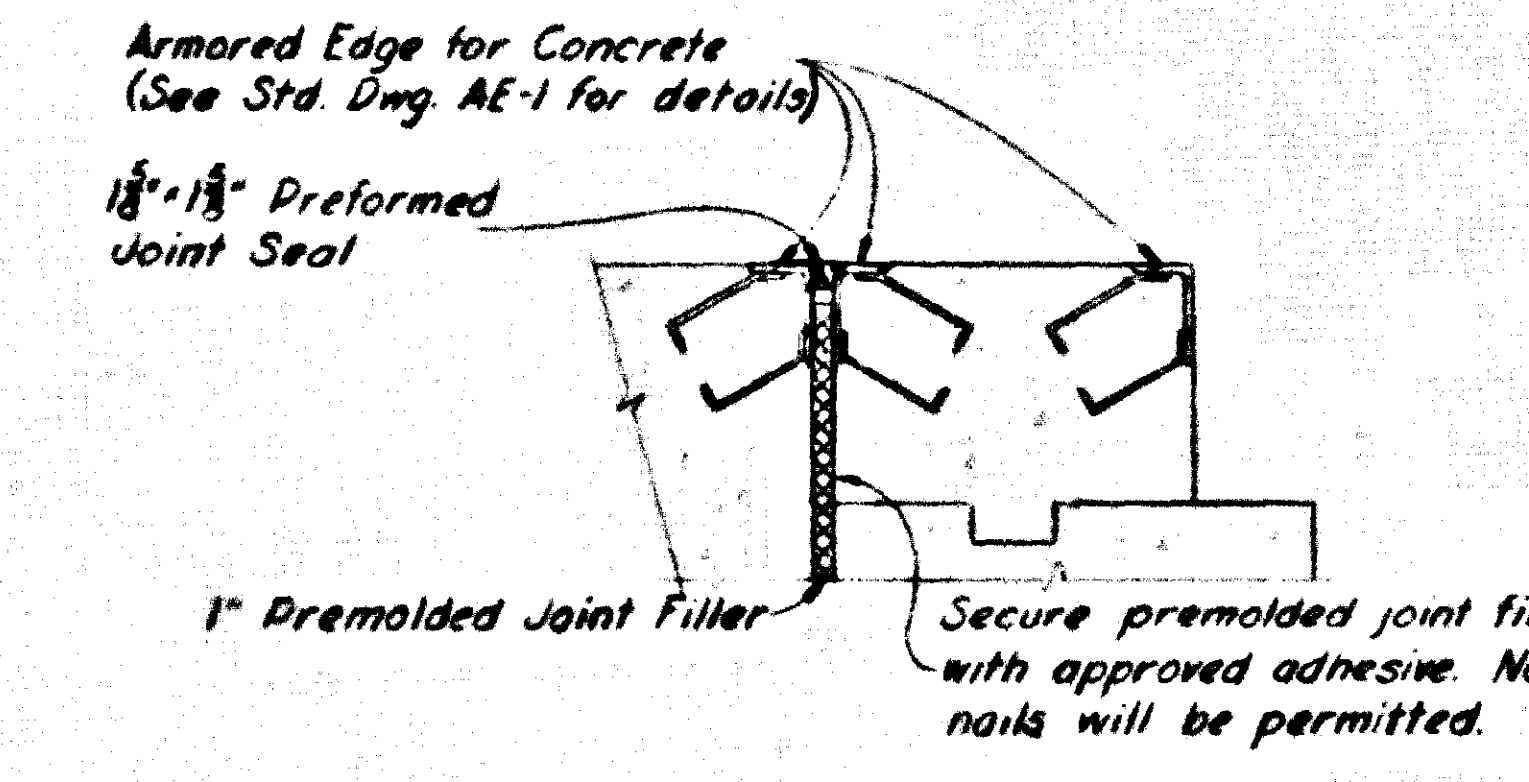
	Elev. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F
N. Wingwall - Bent AM	453.189	3'-3"	6'-5"	4'-10"	2'-6"	9'-8"
S. Wingwall - Bent AM	453.189	3'-3"	6'-5"	4'-10"	2'-6"	9'-8"
N. Wingwall - Bent BM	453.396	3'-3"	6'-5"	4'-10"	2'-6"	9'-8"
S. Wingwall - Bent BM	453.396	3'-3"	6'-5"	4'-10"	2'-6"	9'-8"
N. Wingwall - Bent AE	453.323	3'-3"	6'-5"	4'-10"	2'-6"	9'-8"
S. Wingwall - Bent AE	453.323	3'-3"	6'-5"	4'-10"	2'-6"	9'-8"
N. Wingwall - Bent BE	453.363	3'-3"	6'-5"	4'-10"	2'-6"	9'-8"
S. Wingwall - Bent BE	453.363	3'-3"	6'-5"	4'-10"	2'-6"	9'-8"



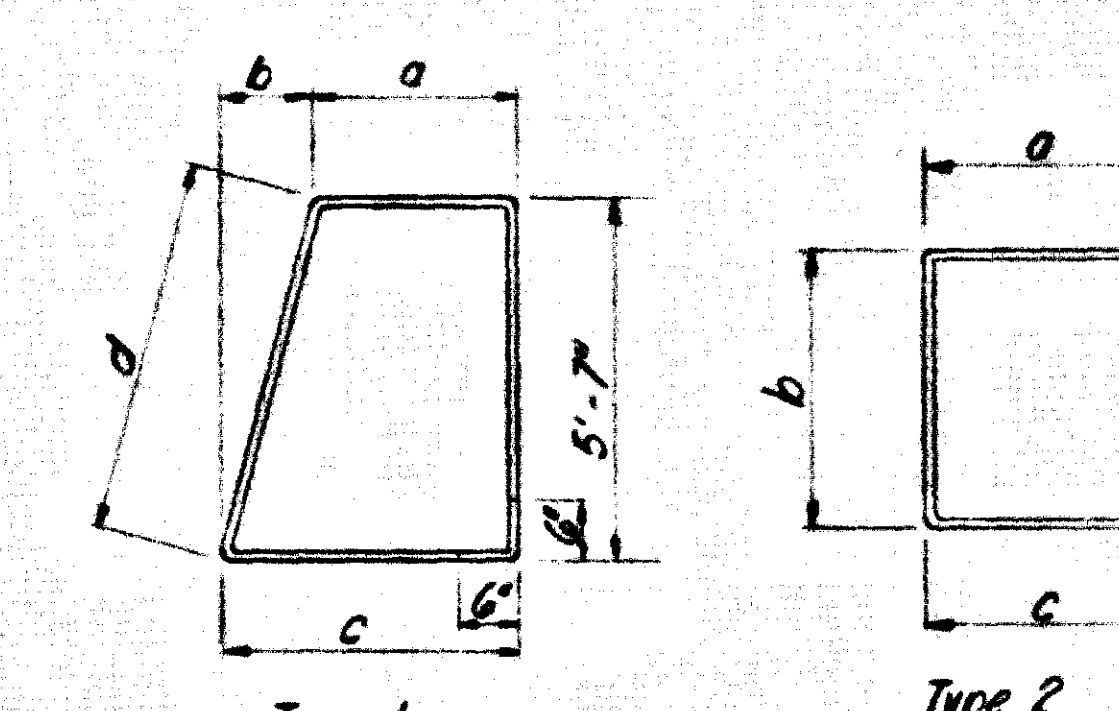
SECTION C-C



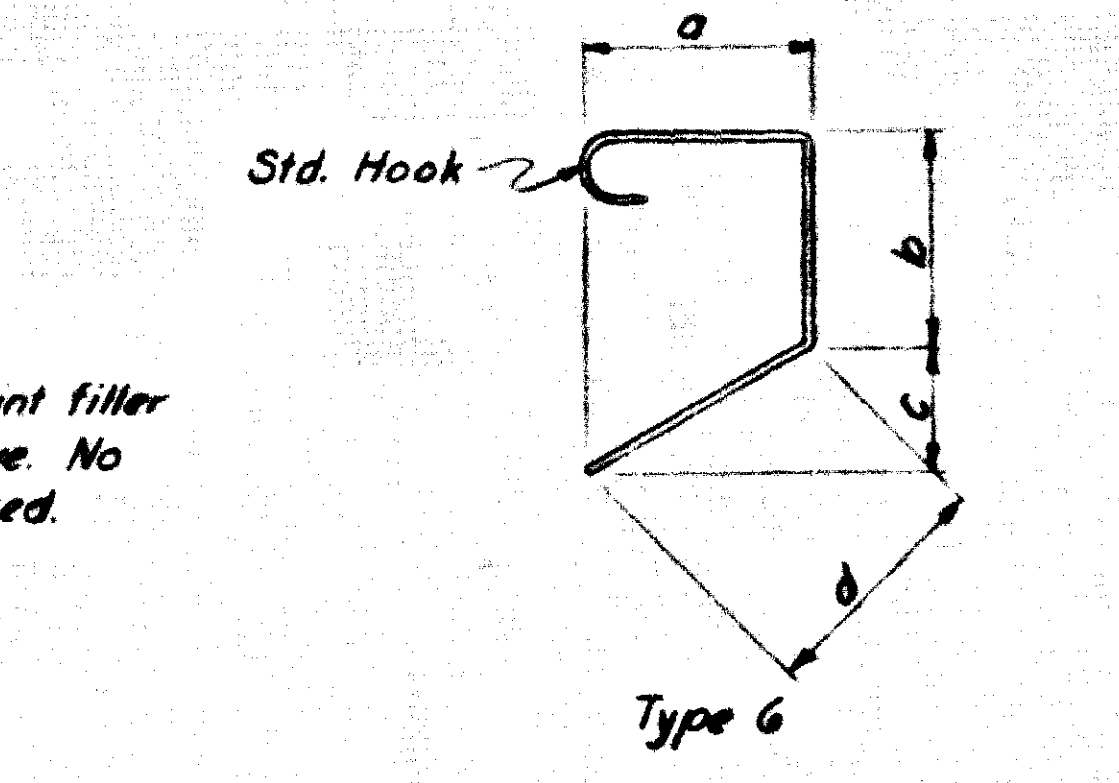
AT BENTS



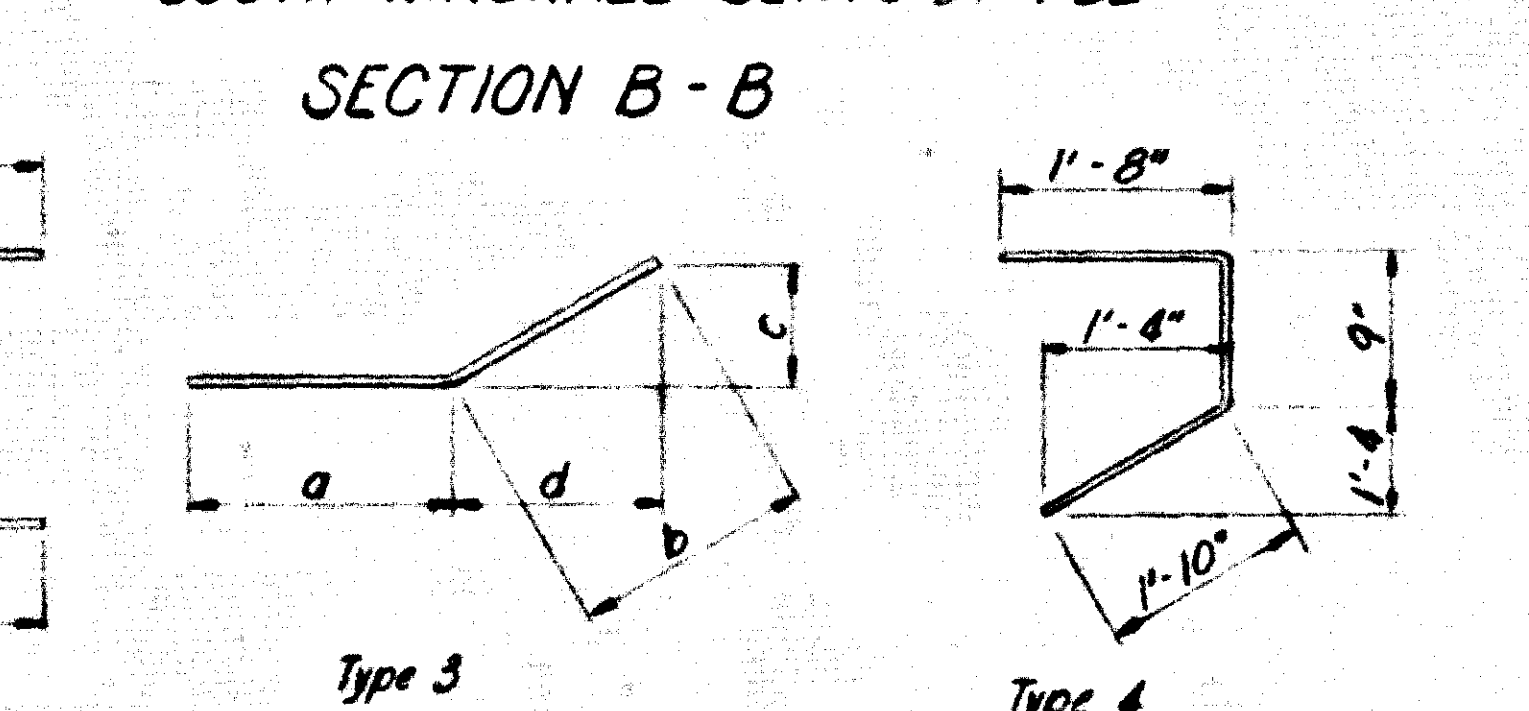
DETAIL D



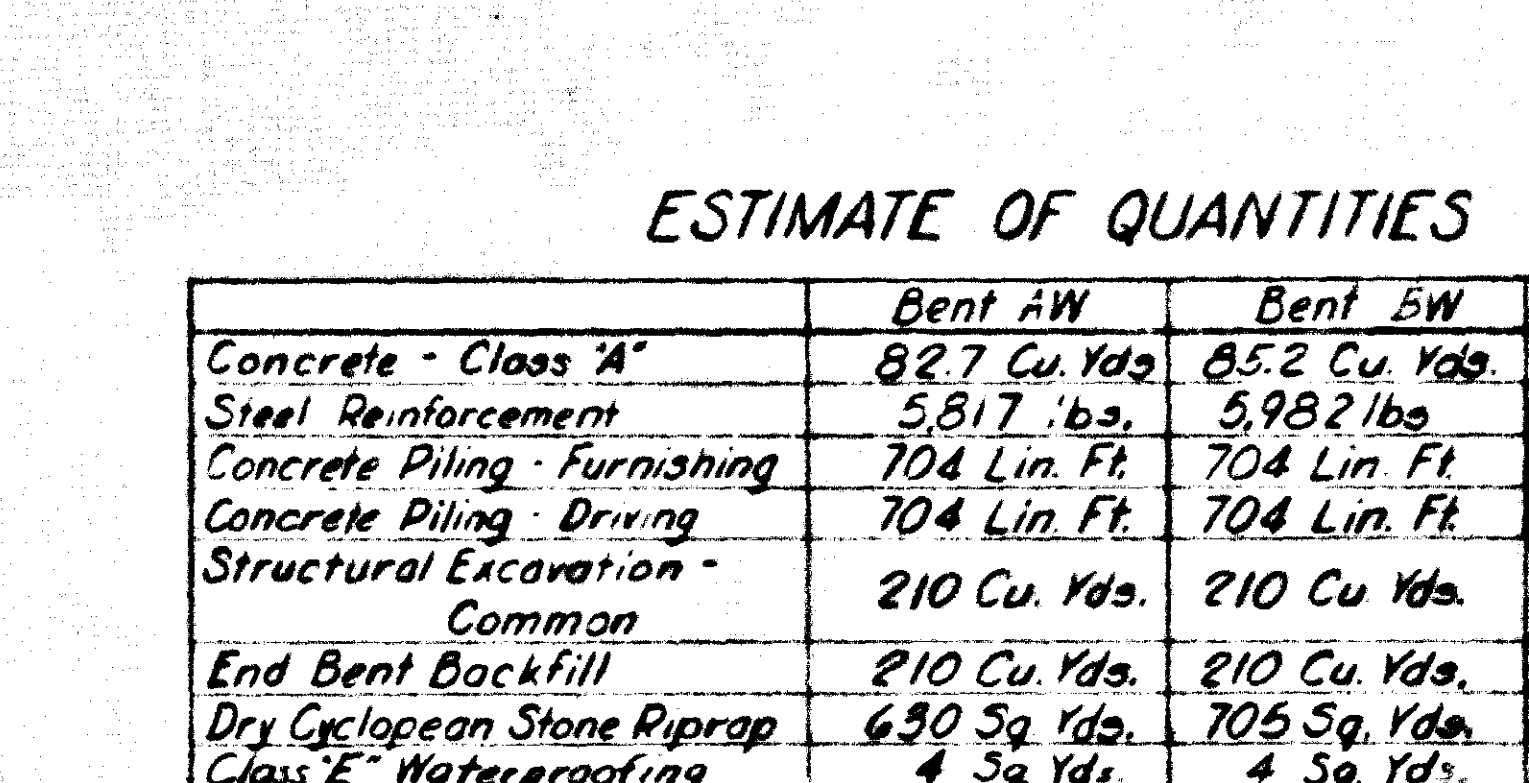
Type 1 Type 2



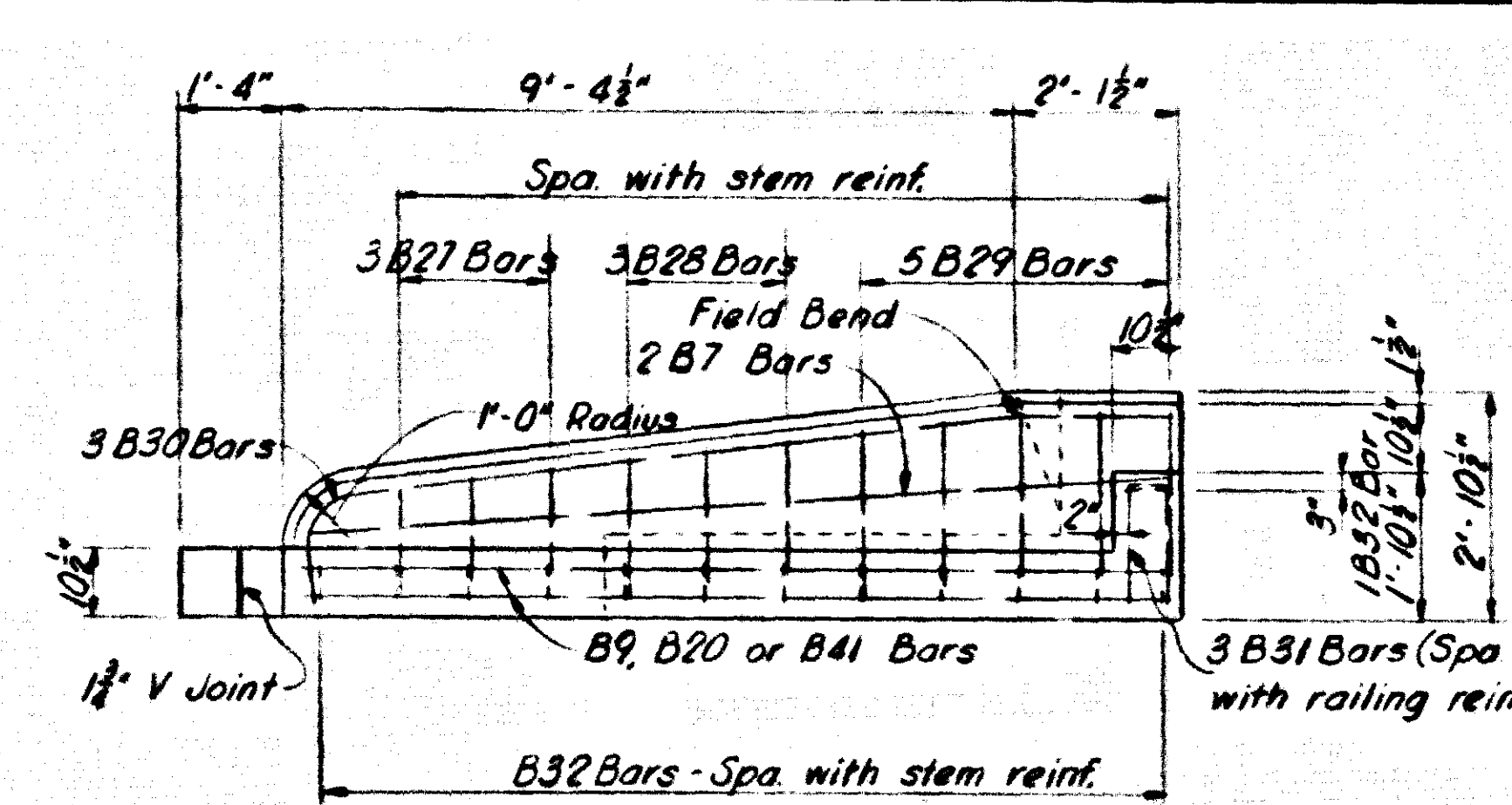
Type 3 Type 4



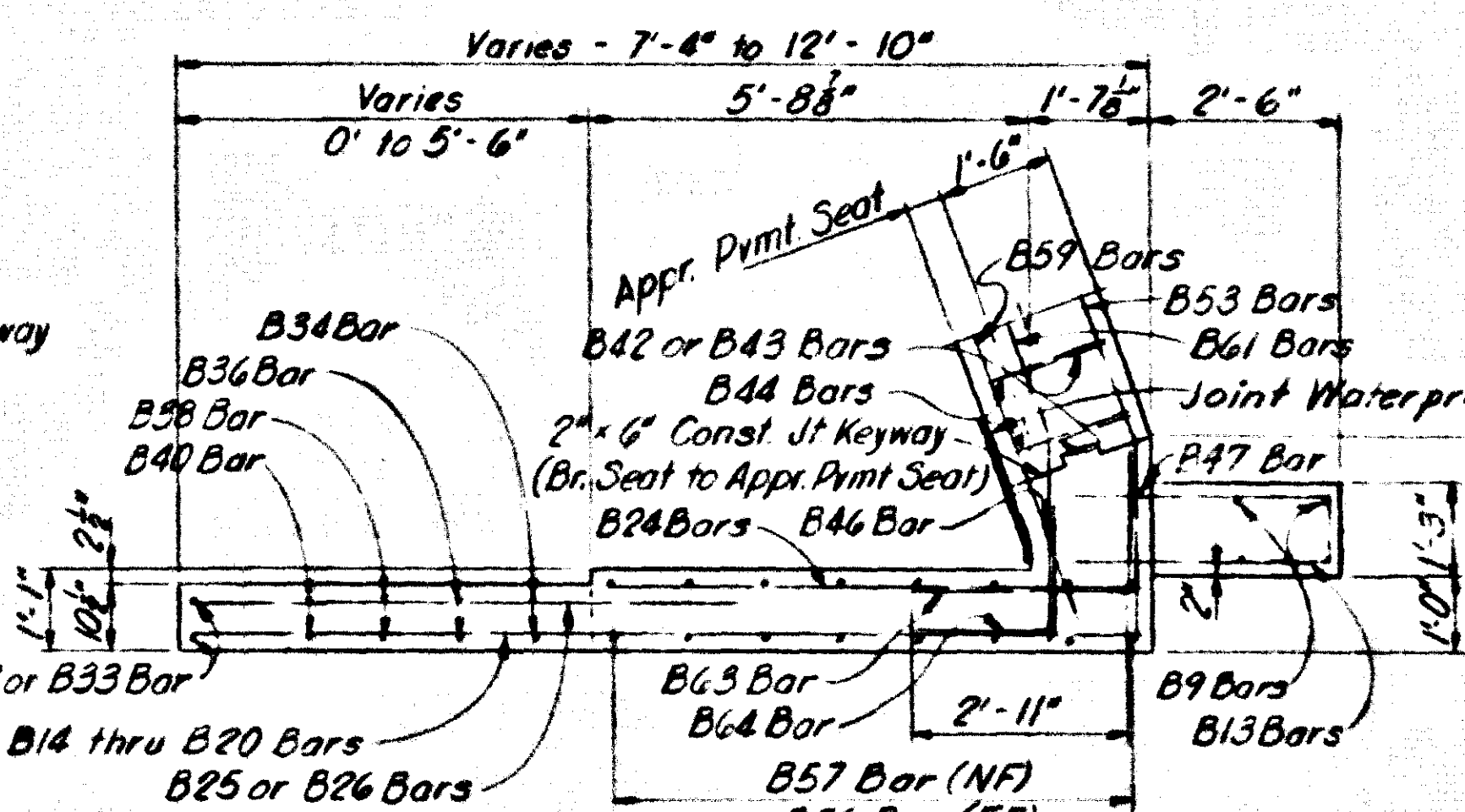
SECTION B-B



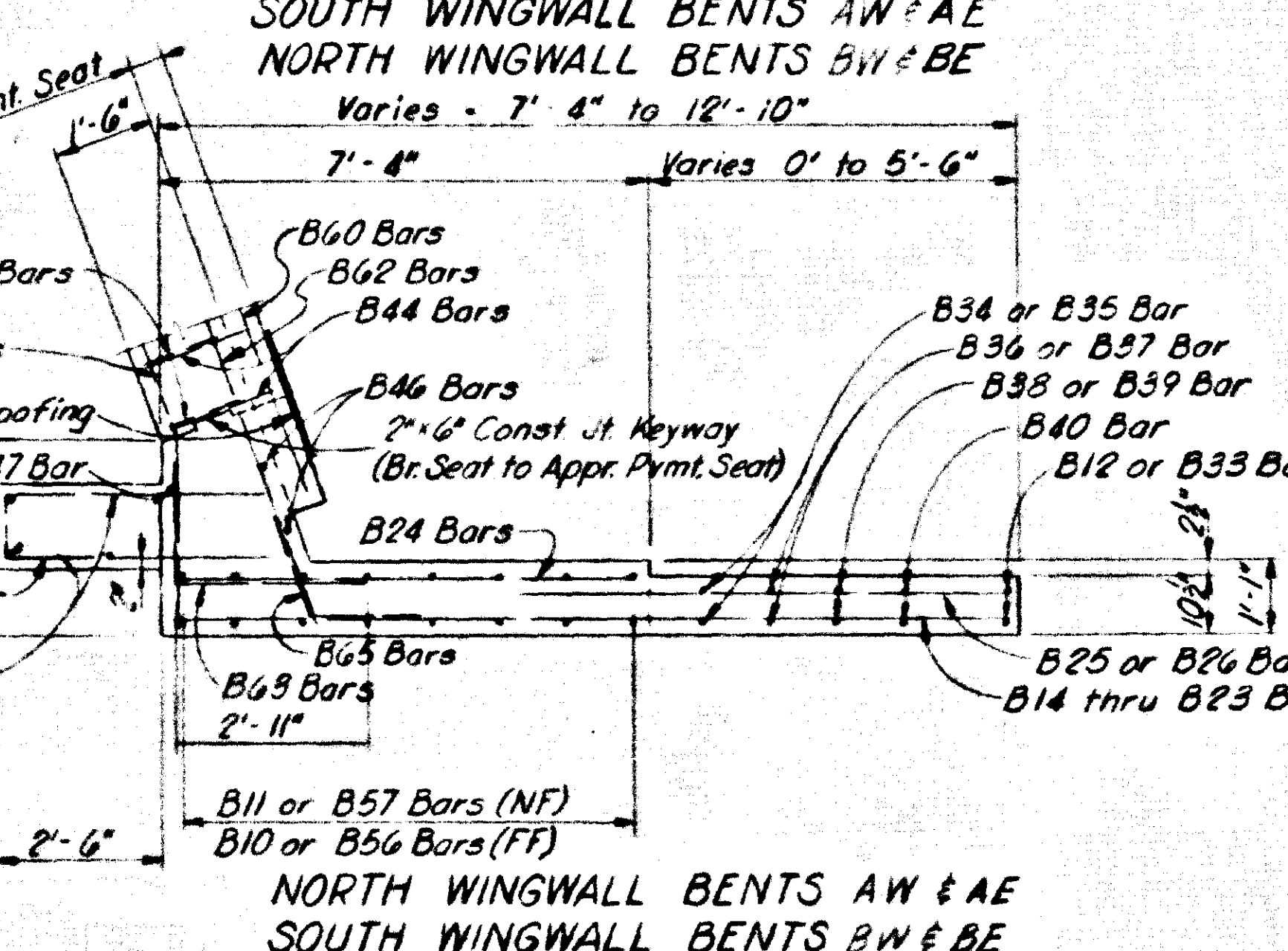
Type 5 Type 6



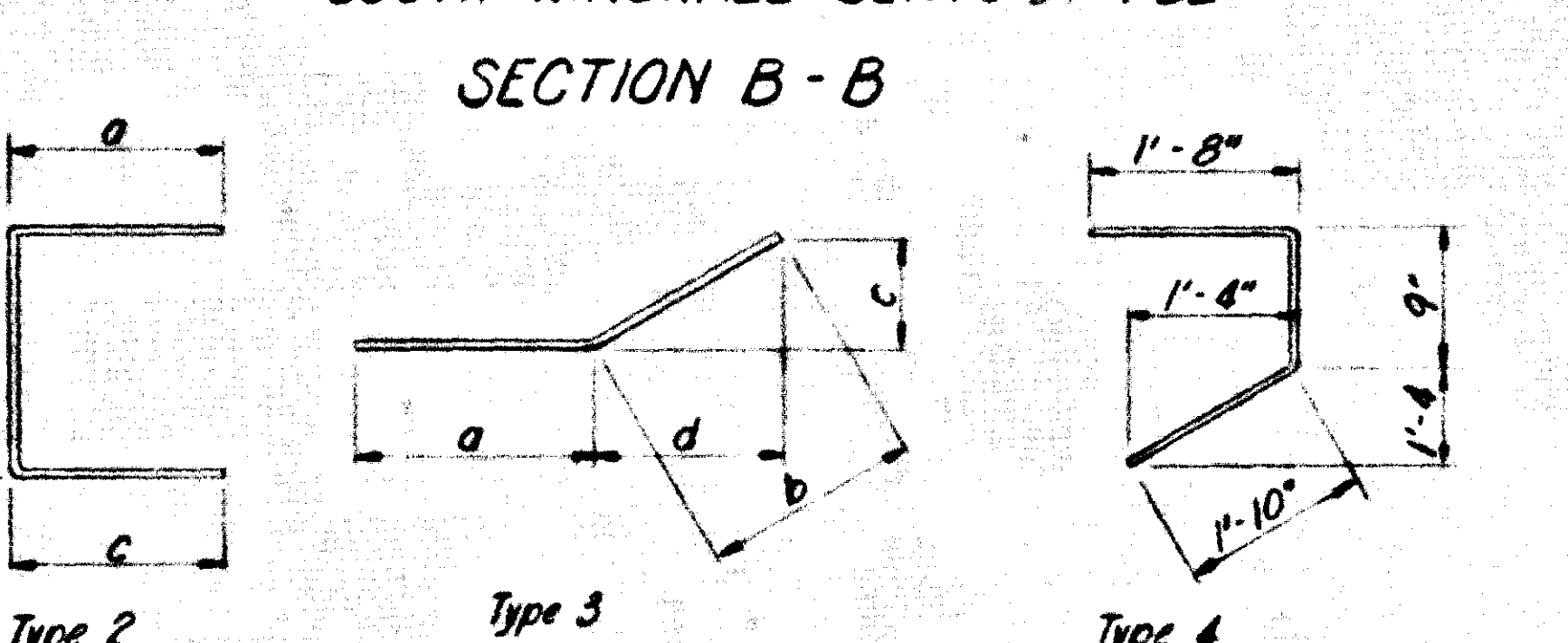
SAFETY CURB PLAN



SOUTH WINGWALL BENTS AN & AE NORTH WINGWALL BENTS BW & BE



SECTION A-A



Type 7 Type 8

ESTIMATE OF QUANTITIES

	Bent AW	Bent BW	Bent AE	Bent BE
Concrete - Class "A"	82.7 Cu. Yds.	85.2 Cu. Yds.	82.4 Cu. Yds.	85.4 Cu. Yds.
Steel Reinforcement	5,817 lbs.	5,982 lbs.	5,817 lbs.	5,981 lbs.
Concrete Piling - Furnishing	704 Lin. Ft.	704 Lin. Ft.	704 Lin. Ft.	704 Lin. Ft.
Concrete Piling - Driving	704 Lin. Ft.	704 Lin. Ft.	704 Lin. Ft.	704 Lin. Ft.
Structural Excavation - Common	210 Cu. Yds.	210 Cu. Yds.	210 Cu. Yds.	210 Cu. Yds.
End Bent Backfill	210 Cu. Yds.	210 Cu. Yds.	210 Cu. Yds.	210 Cu. Yds.
Dry Cyclopean Stone Riprap	630 Sq. Yds.	705 Sq. Yds.	740 Sq. Yds.	605 Sq. Yds.
Class "E" Waterproofing	4 Sq. Yds.	4 Sq. Yds.	4 Sq. Yds.	4 Sq. Yds.

BENTS AW, BW, AE & BE SUBSTRUCTURE

BILL OF REINFORCEMENT

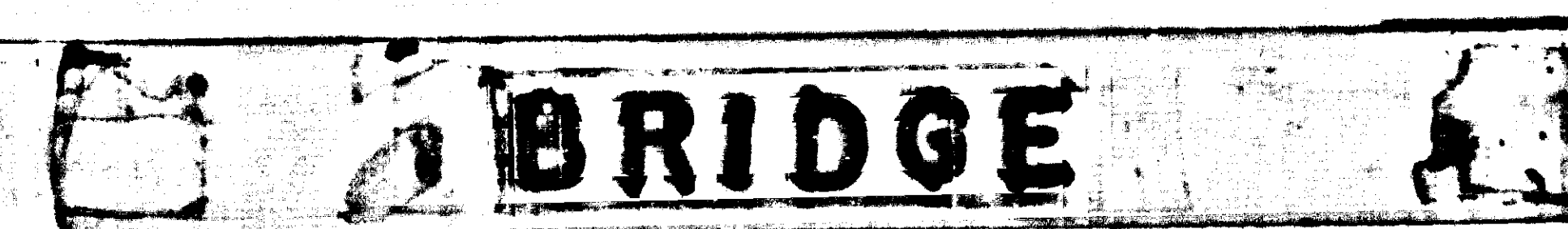
Mark	Type	Size	Length	Number of Bars	Location	a	b	c	d
B1	Str.	5	20	9	36	36	36	36	36
B2	Str.	5	19	0	10	10	10	10	10
B3	Str.	5	19	0	10	10	10	10	10
B4	Str.	5	9	3	12	12	12	12	12
B5	Str.	5	6	4	12	12	12	12	12
B6	Str.	6	8	6	16	16	16	16	16
B7	Str.	4	11	0	4	4	4	4	4
B8	Str.	6	19	3	16	16	16	16	16
B9	Str.	4	11	3	12	12	12	12	12
B10	Str.	6	9	0	8	8	8	8	8
B11	Str.	4	9	0	4	4	4	4	4
B12	Str.	4	8	6	10	10	10	10	10
B13	Str.	4	7	5	10	10	10	10	10
B14	Str.	4	7	5	10	10	10	10	10
B15	Str.	4	8	11	2	2	2	2	2
B16	Str.	4	10	3	2	2	2	2	2
B17	Str.	4	11	10	4	4	4	4	4
B18	Str.	4	12	4	4	4	4	4	4
B19	Str.	4	12	4	4	4	4	4	4
B20	Str.	4	11	4	4	4	4	4	4
B21	Str.	4	9	7	1	1	1	1	1
B22	Str.	4	9	7	1	1	1	1	1
B23	Str.	4	10	9	1	1	1	1	1
B24	Str.	7	7	0	16	16	16	16	16
B25	Str.	4	4	6	6	6	6	6	6
B26	Str.	4	4	6	6	6	6	6	6
B27	Str.	4	4	6	6	6	6	6	6
B28	Str.	4	4	6	6	6	6	6	6
B29	Str.	4	4	6	6	6	6	6	6
B30	Str.	4	4	6	6	6	6	6	6
B31	Str.	4	4	6	6	6	6	6	6
B32	Str.	4	4	6	6	6	6	6	6
B33	Str.	4	4	6	6	6	6	6	6
B34	Str.	4	4	6	6	6	6	6	6
B35	Str.	4	4	6	6	6	6	6	6
B36	Str.	4	4	6	6	6	6	6	6
B37	Str.	4	4	6	6	6	6	6	6
B38	Str.	4	4	6	6	6	6	6	6
B39	Str.	4	4	6	6	6	6	6	6
B40	Str.	4	4	6	6	6	6	6	6
B41	Str.	4	11	6	4	4	4	4	4
B42	Str.	6	16	4	21	21	21	21	21
B43	Str.	2	6	15	8	41	41	41	41
B44	Str.	4	4	4	41	41	41	41	41
B45	Str.	2	6	17	10	20	20	20	20
B46	Str.	4	8	9	3	3	3	3	3
B47	Str.	4	8	9	3	3	3	3	3
B48	Str.	4	8	9	3	3	3	3	3
B49	Str.	3	4	6	3	7	7	7	7
B50	Str.	2	4	6	10	41	41	41	41
B51	Str.	4	2	8	10	10	10	10	10
B52	Str.	2	4	7	2	15	15	15	15
B53	Str.	3	4	25	17	15	15	15	15
B54	Str.	3	4	27	6	16	16	16	16
B55	Str.	3	6	27	16	16	16	16	16
B56	Str.	6	8	16	16	16	16	16	16
B57	Str.	4	8	16	16	16	16	16	16
B58	Str.	4	12	9	20	20	20	20	20
B59	Str.	4	23	0	20	20	20	20	20
B60	Str.	4	19	10	20	20	20	20	20
B61	Str.	3	4	25	3	20	20	20	20
B62	Str.	4	22	4	10	10	10	10	10
B63	Str.	4	22	4	10	10	10	10	10
B64	Str.	4	22	4	10	10	10	10	10
B65	Str.	4	22	4	10	10	10	10	10

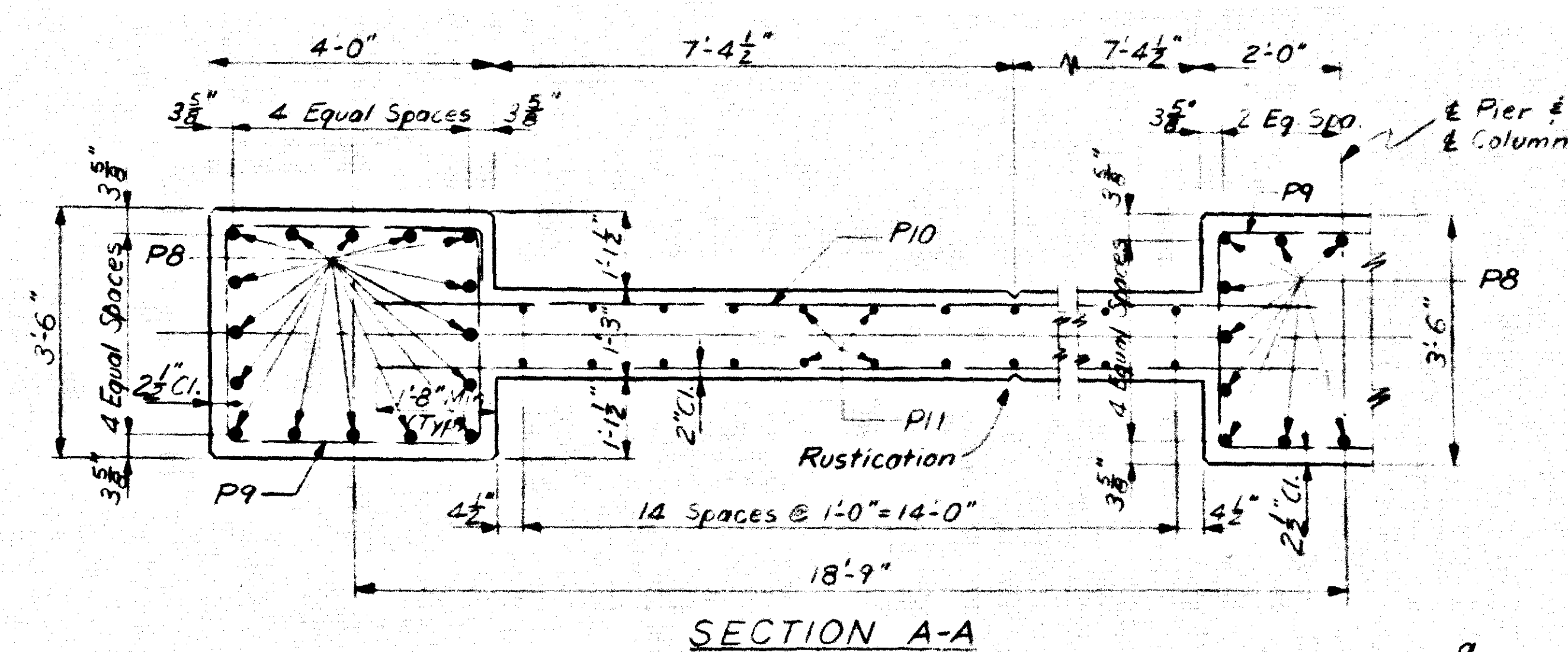
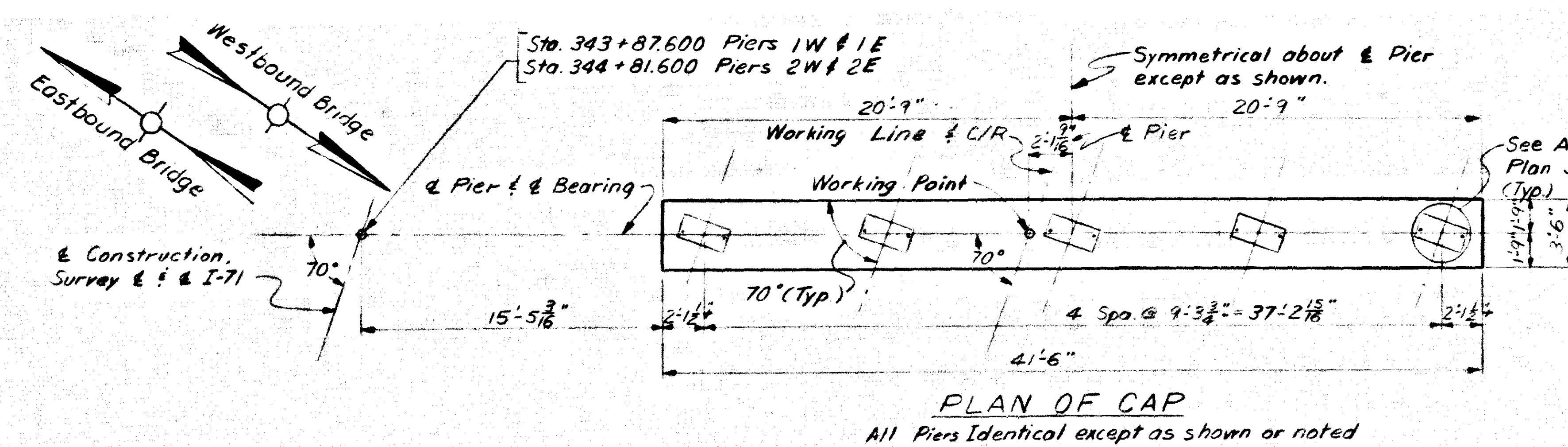
BRIDGE OVER BEARGRASS CREEK SHEET 7 OF 6

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
JEFFERSON
171 - OHIO STREET TO ZORN AVENUE

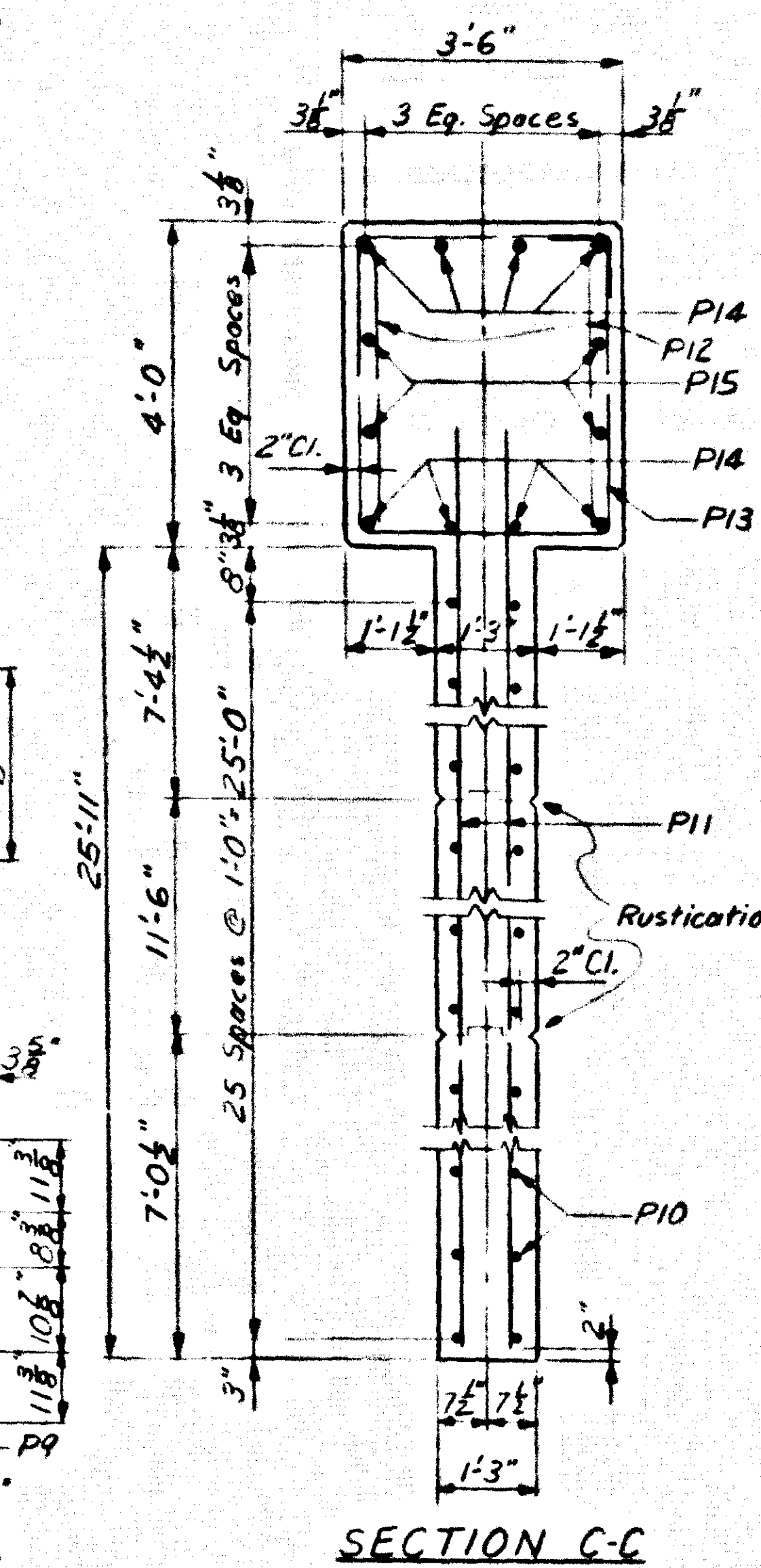
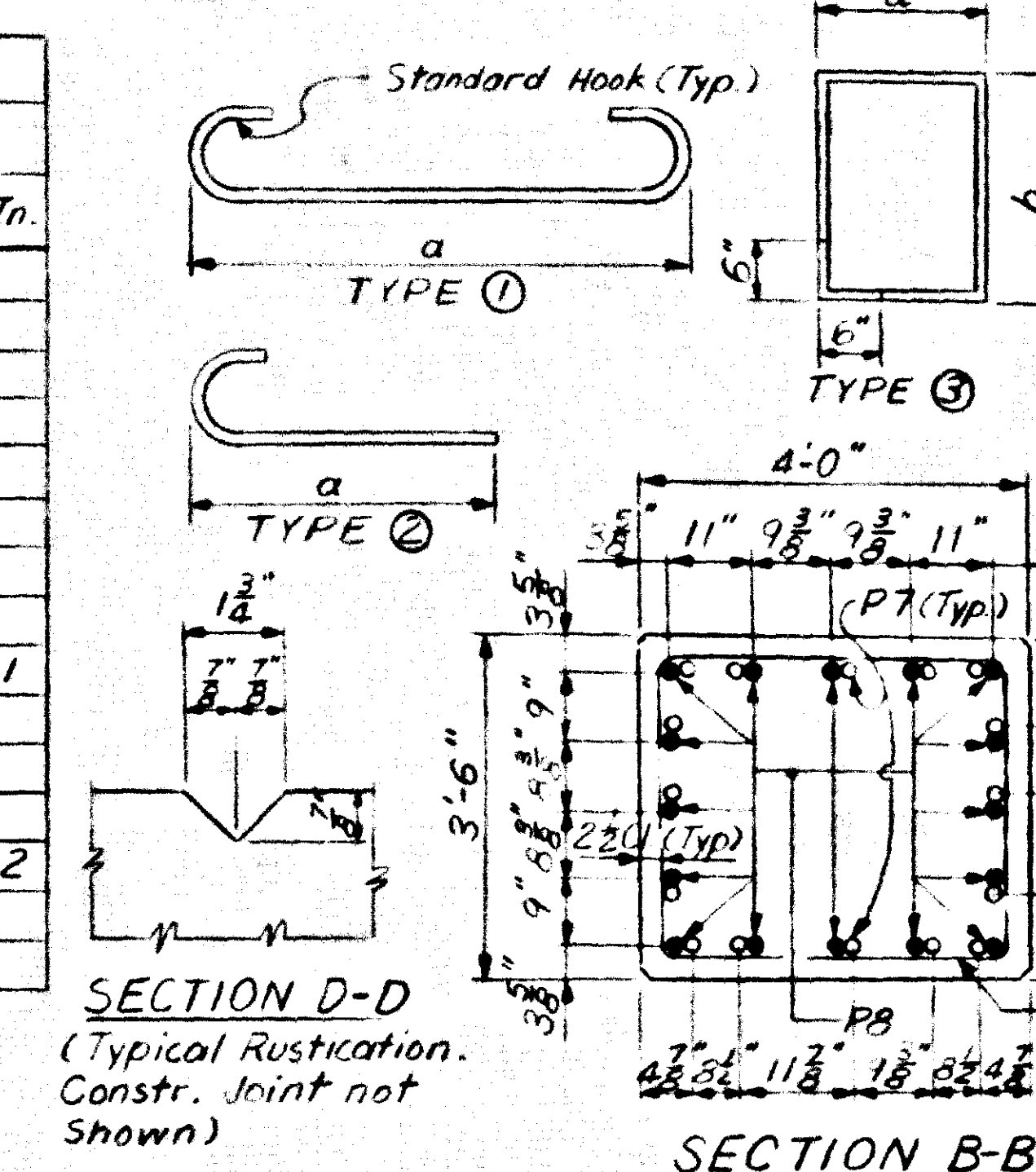
STATION 344+35 PROJECT NO. 171-1

BRIDGE NUMBER 15935





BILL OF REINFORCEMENT										
Mark	Size	Type	Number		Length		Location	a		b
			Plain	Welded	ft	in		ft	in	
P1	9	1	33	11	14	0	Footing	11	6	
P2							Not Used			
P3	6	Str.	36	30	5	6	Footing			
P4							Not Used			
P5	7	1	-	20	10	2	Footing	8	6	
P6							Not Used			
P7	10	2	48	48	8	10	Footing	7	5	
P8	10	Str.	48	48	36	0	Column			
P9	4	3	96	96	14	4	"	3	7	3
P10	4	Str.	104	104	18	1	Webwall			
P11	4	Str.	60	60	27	5	"			
P12	6	Str.	8	8	14	6	Cap			
P13	5	3	32	32	14	8	"	3	8	3
P14	8	Str.	8	8	41	2	"			
P15	6	Str.	4	4	41	2	Cap			



ESTIMATE OF QUANTITIES				
Item	Units	Per 100 m ²	Per 100 m ³	Per 100 m ²
Class A Concrete	Cu. Mts	43.7	51.2	43.7
Steel Reinforcement	Lbs.	16,835	15,512	16,835
Concrete Piling (Furnishing)	Ln. Ft.	597	513	597
Concrete Piling (Driving)	Ln. Ft.	517	513	513
Structure Excavation, Common	Cu. Yds	225	168	225

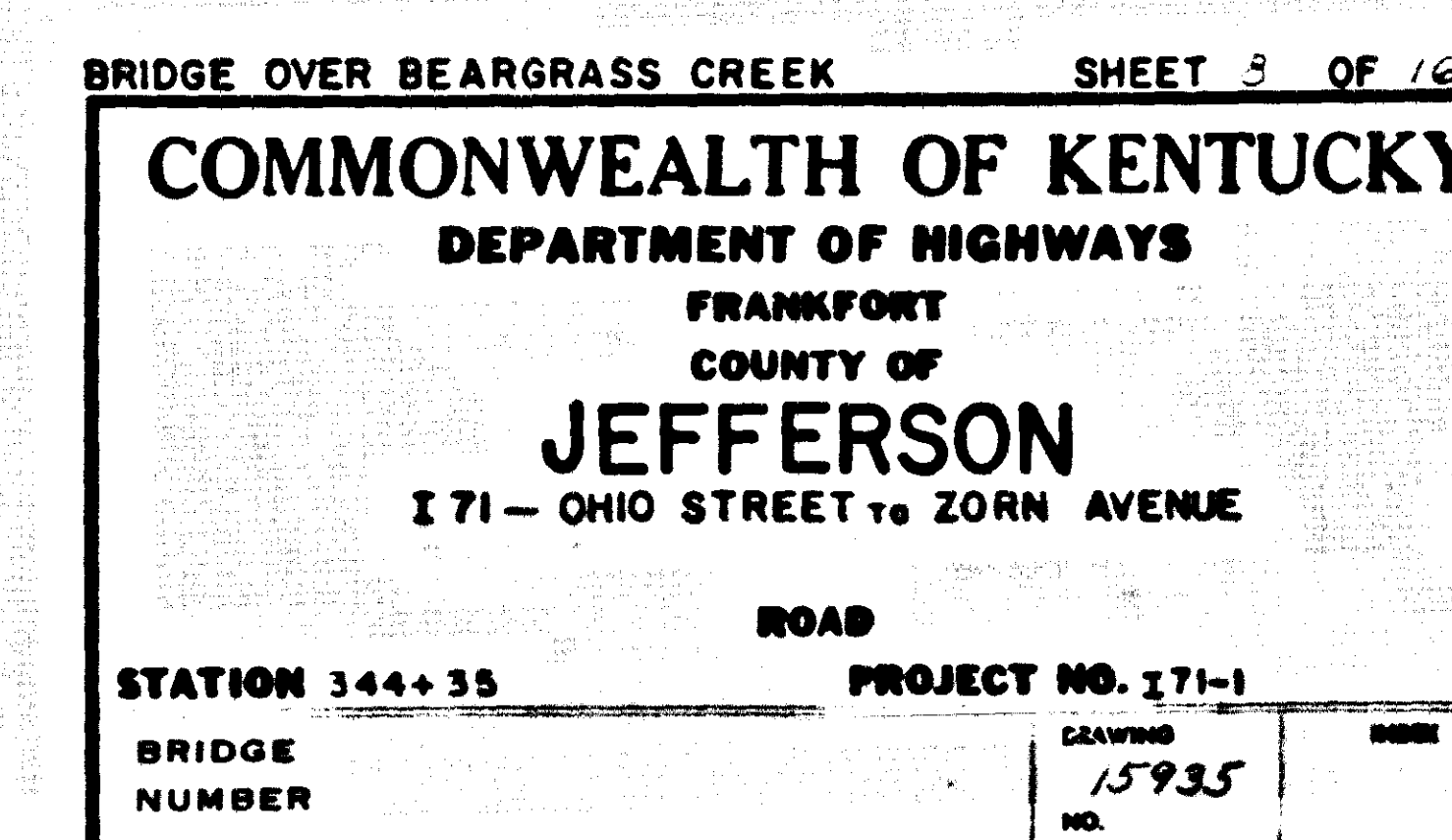
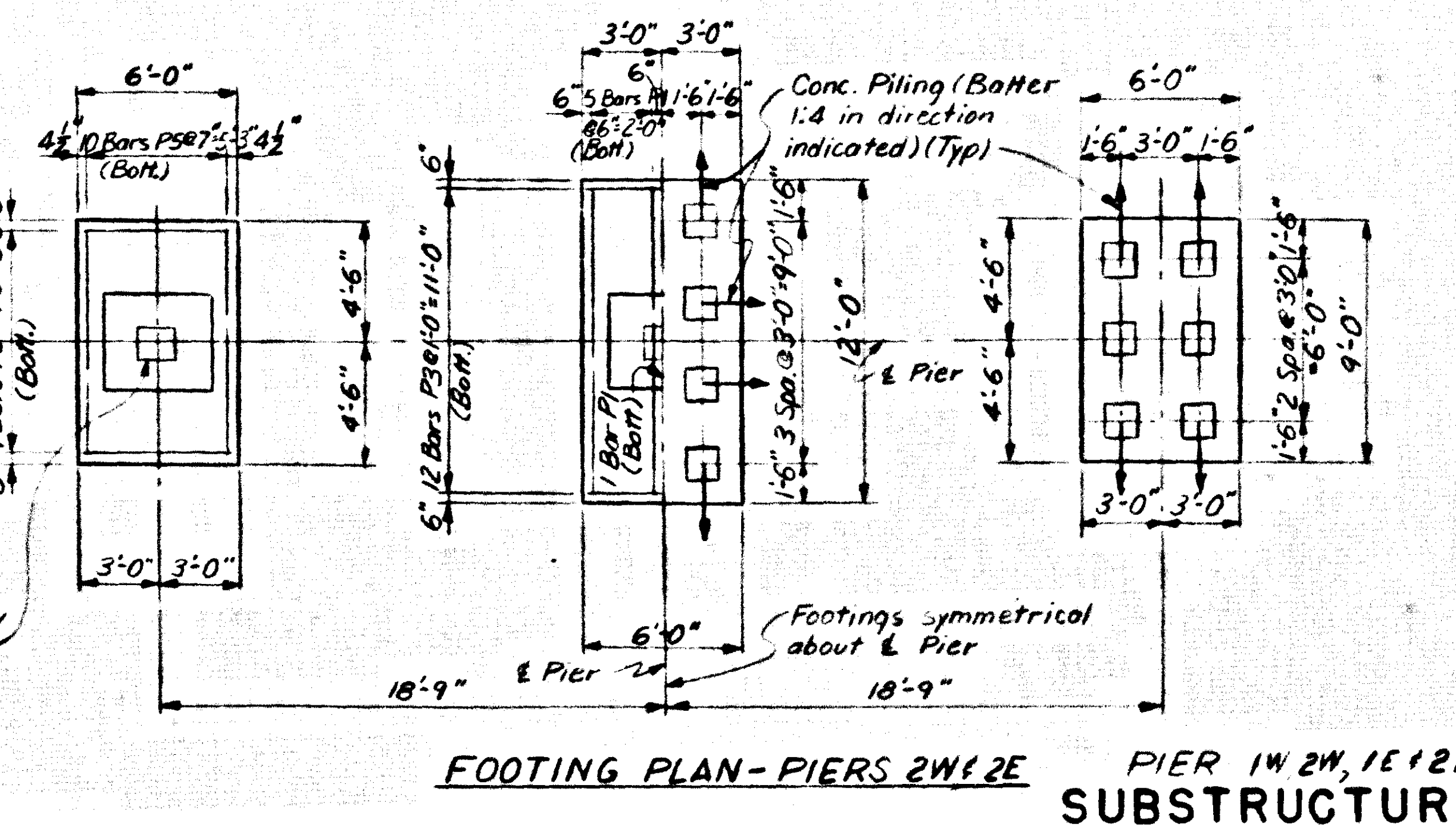
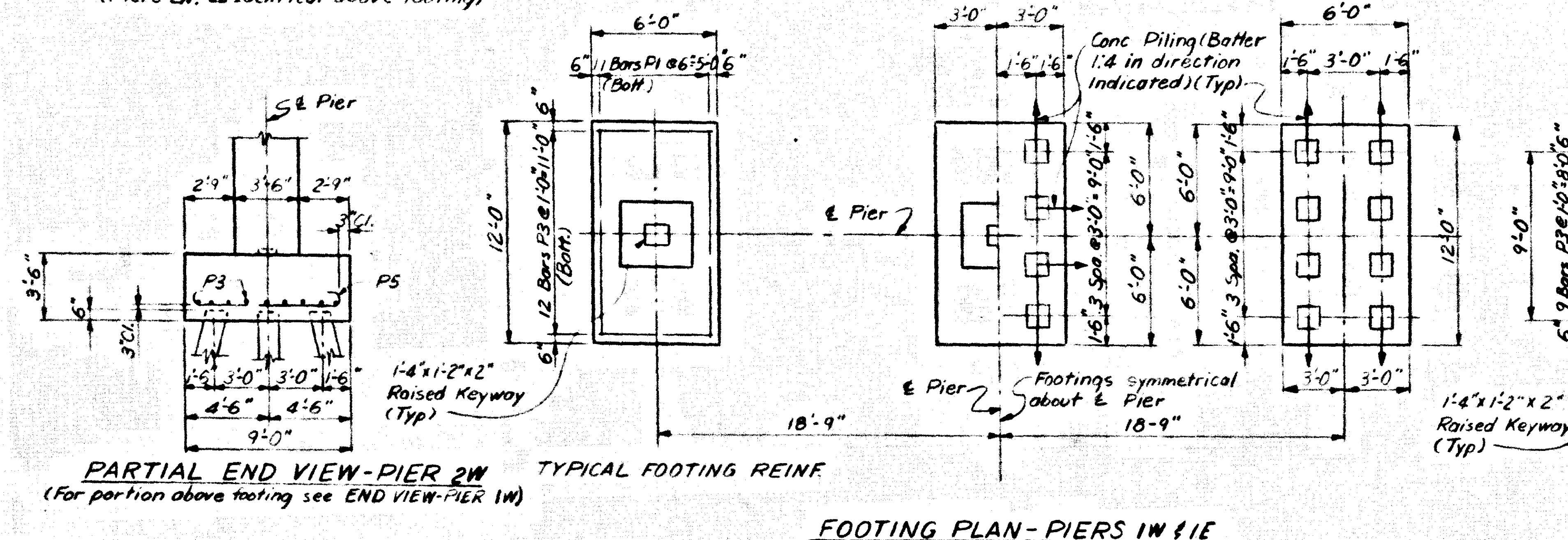
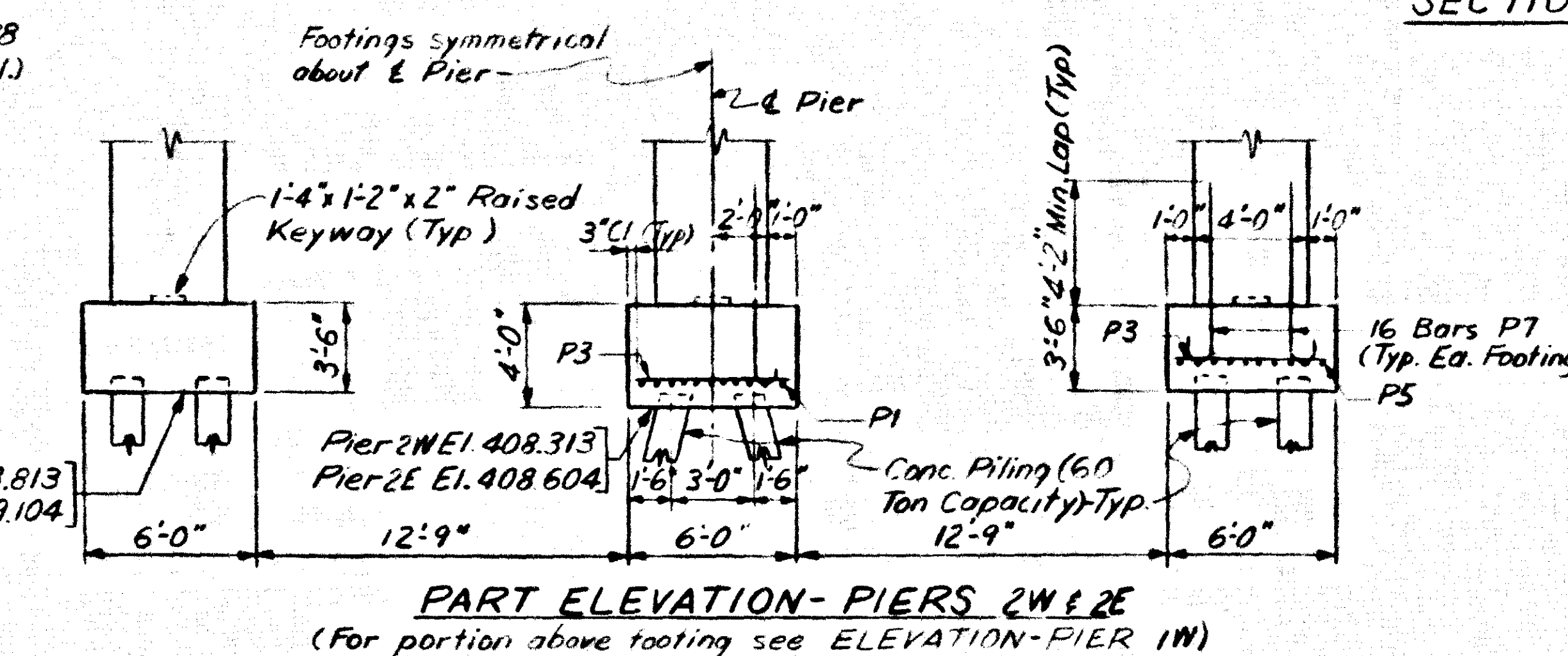
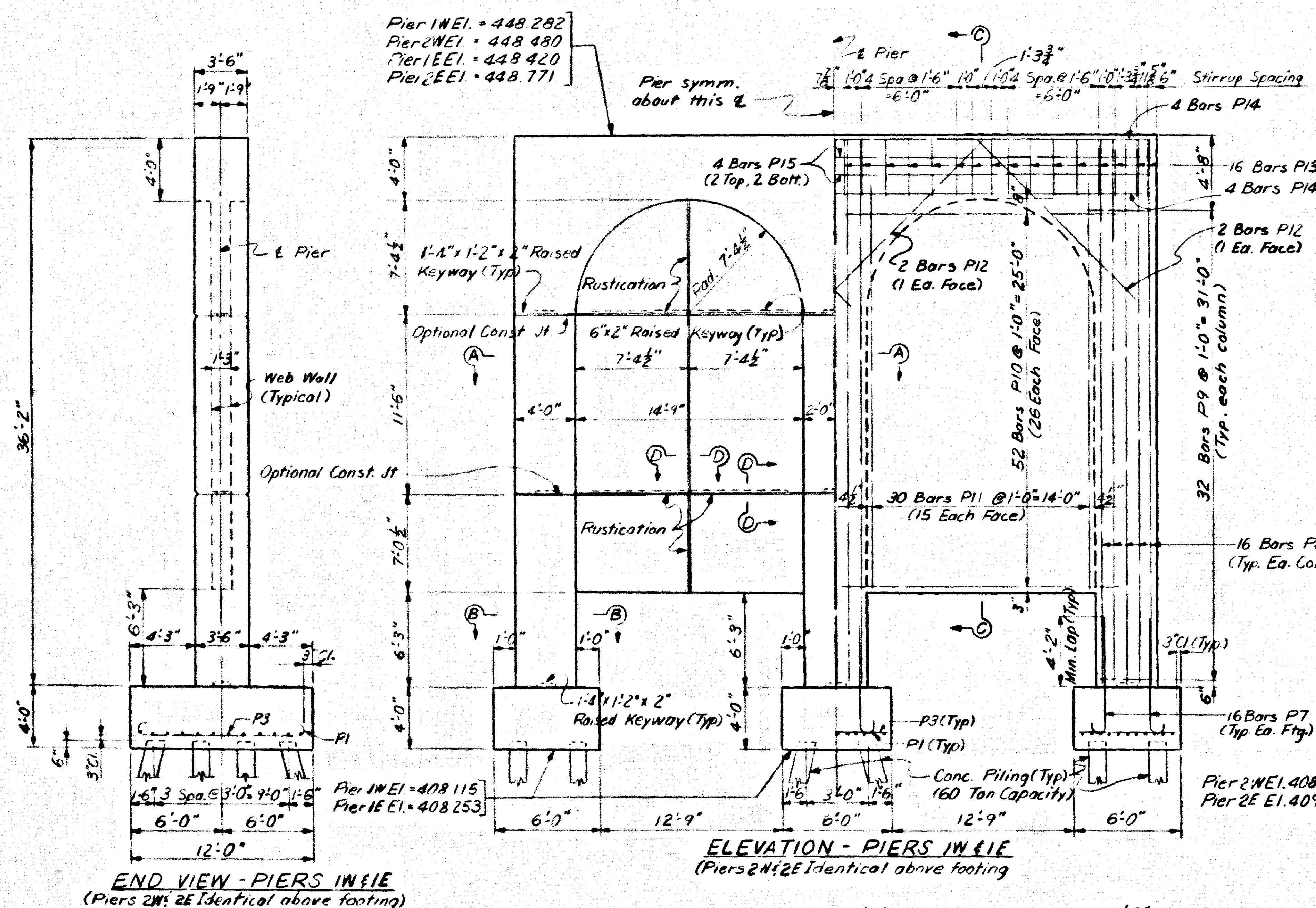
NOTES -

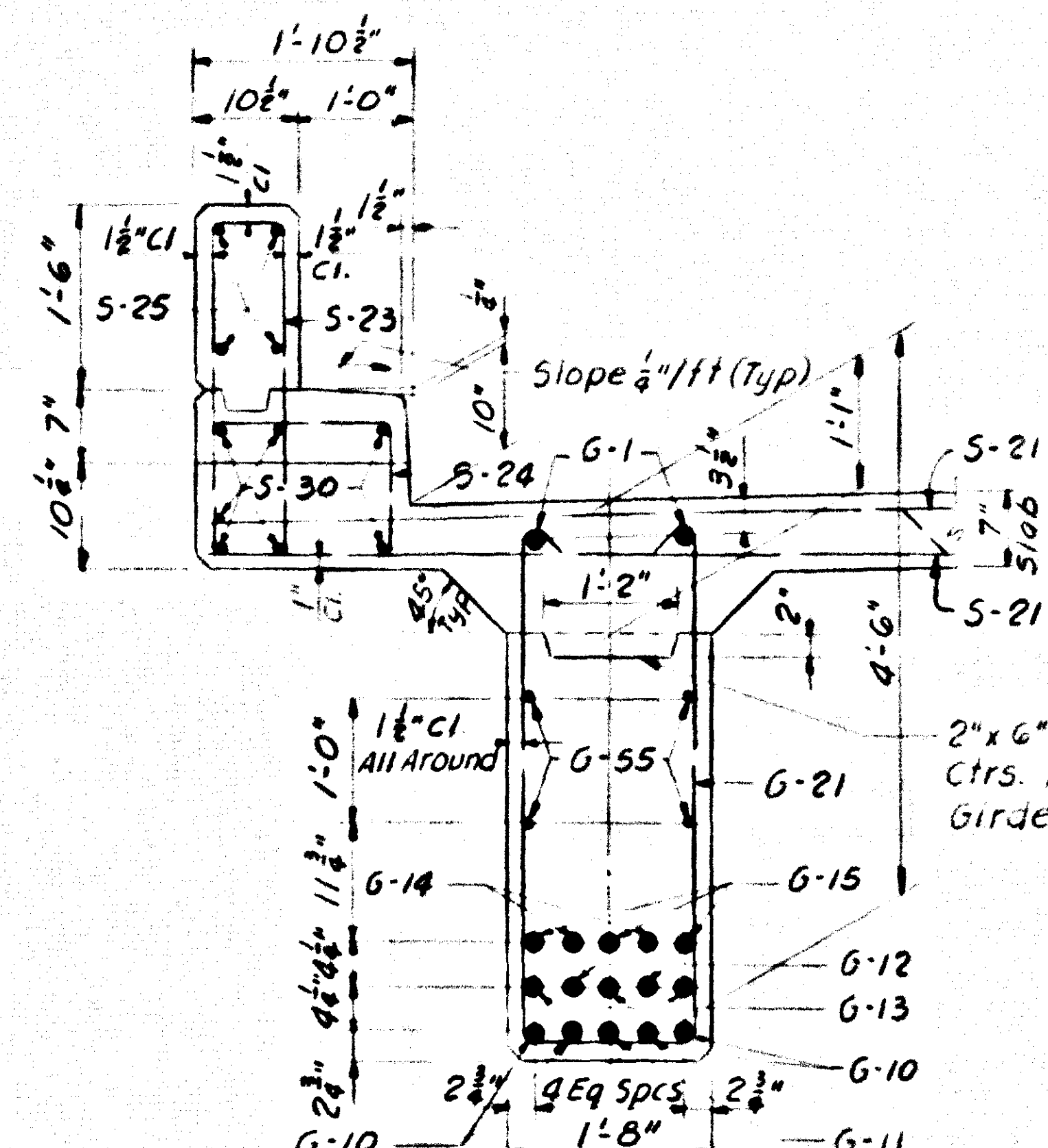
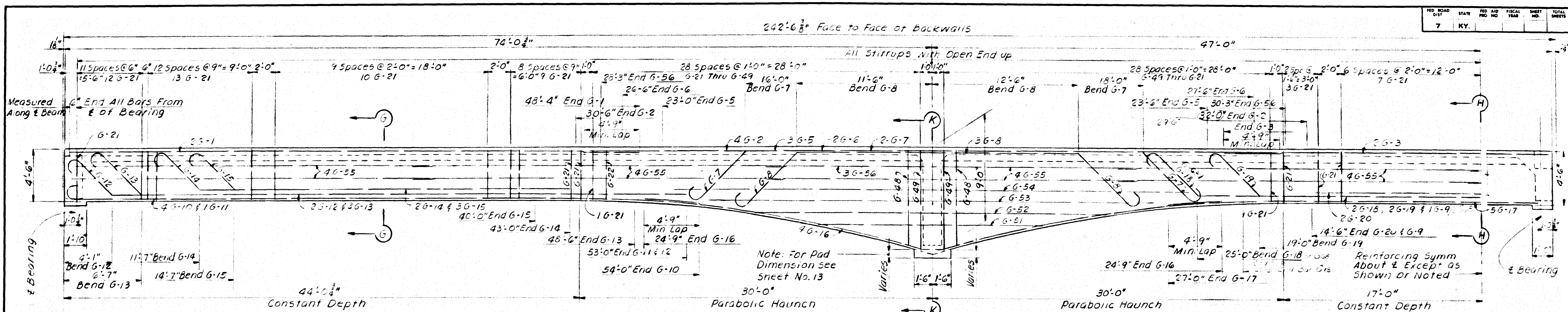
Piles shall be driven to or below Elev. 385.0
using jacking if necessary.

For pile location details see Pile Record Sheet No. 15

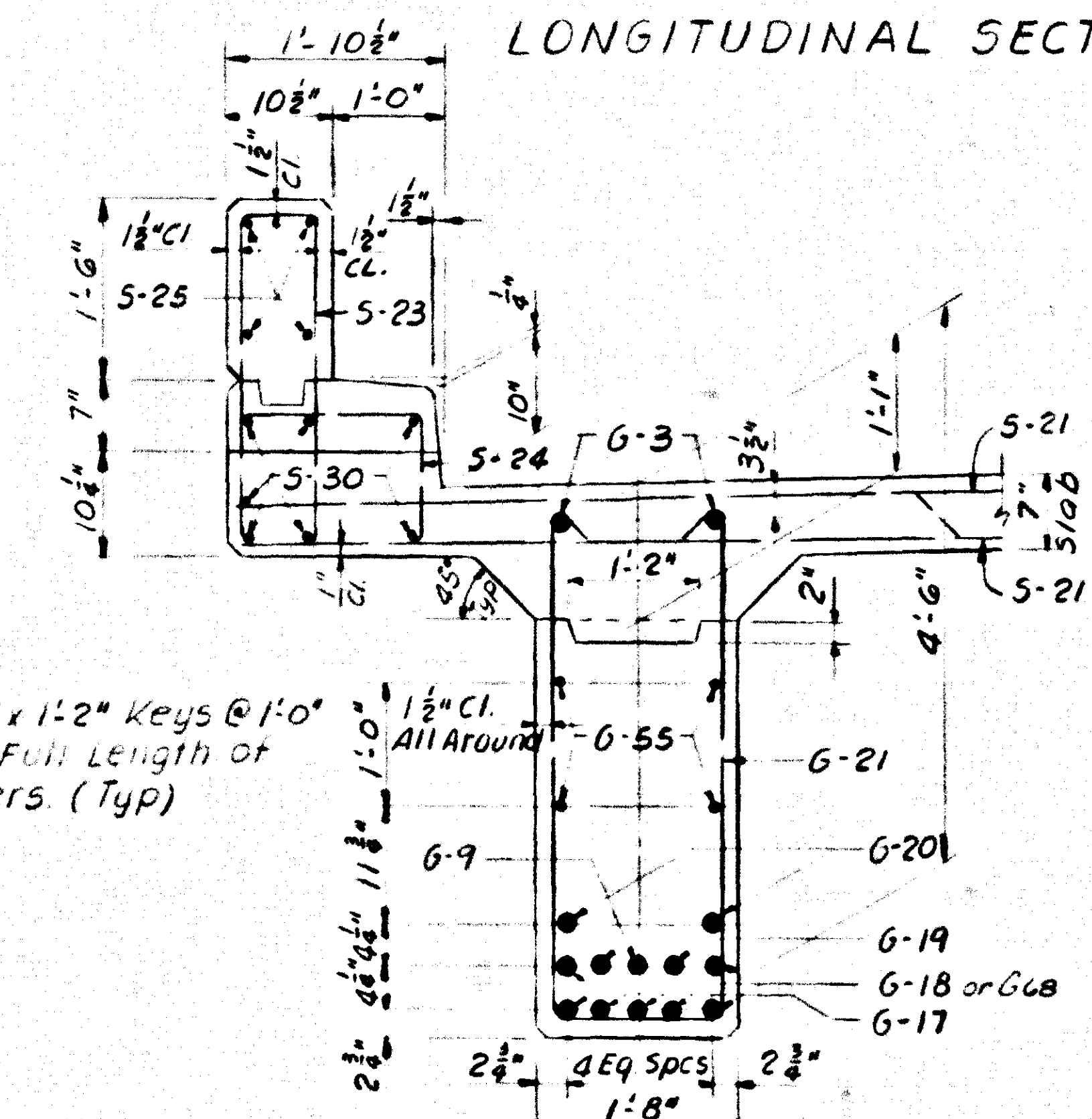
Top of Lap Bars are to be accurately located
in accordance with the plans so they will
not interfere with the drilling of anchor
bolt holes

See Anchor Bolt Plan on Sheet No. 14.

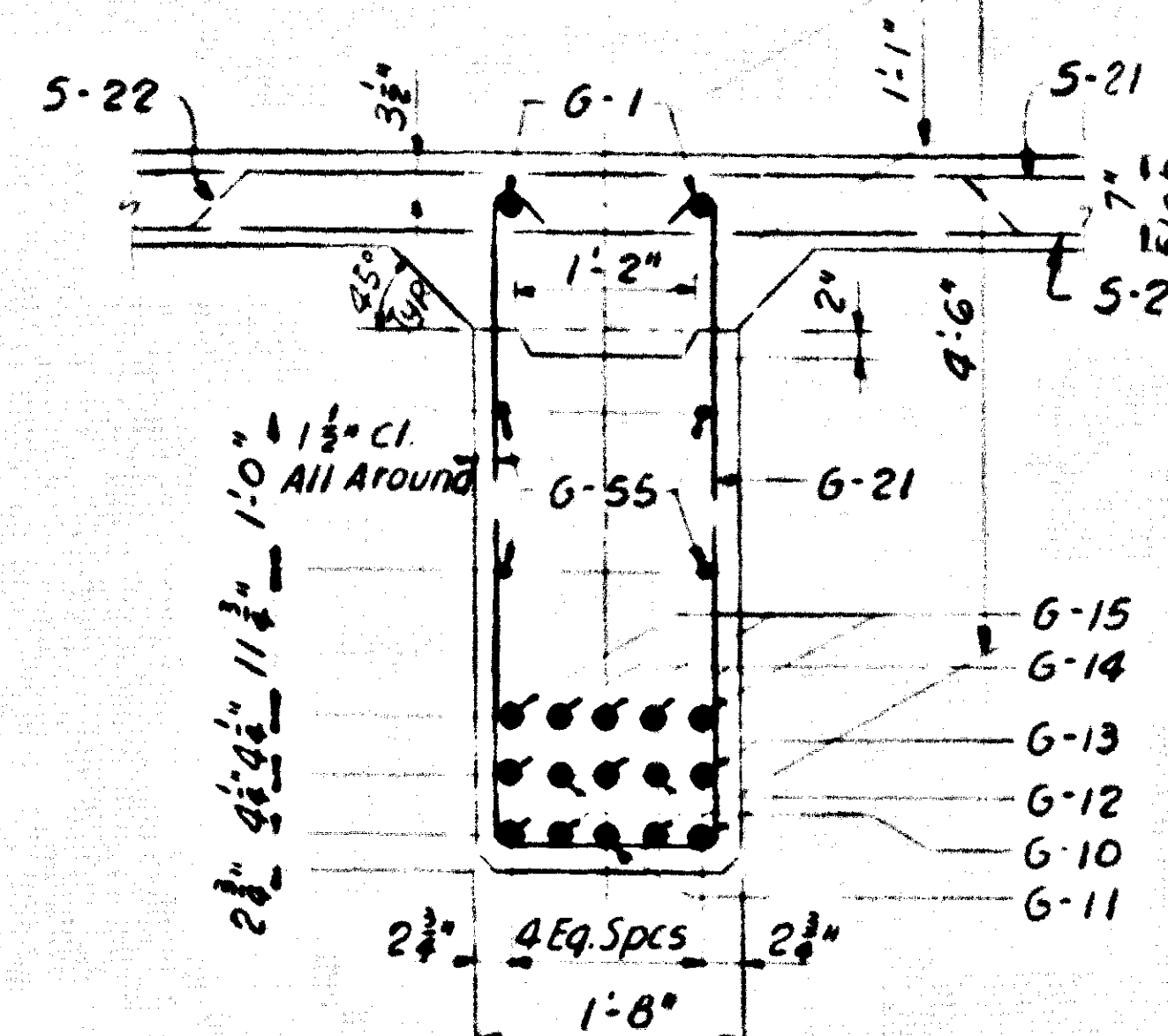




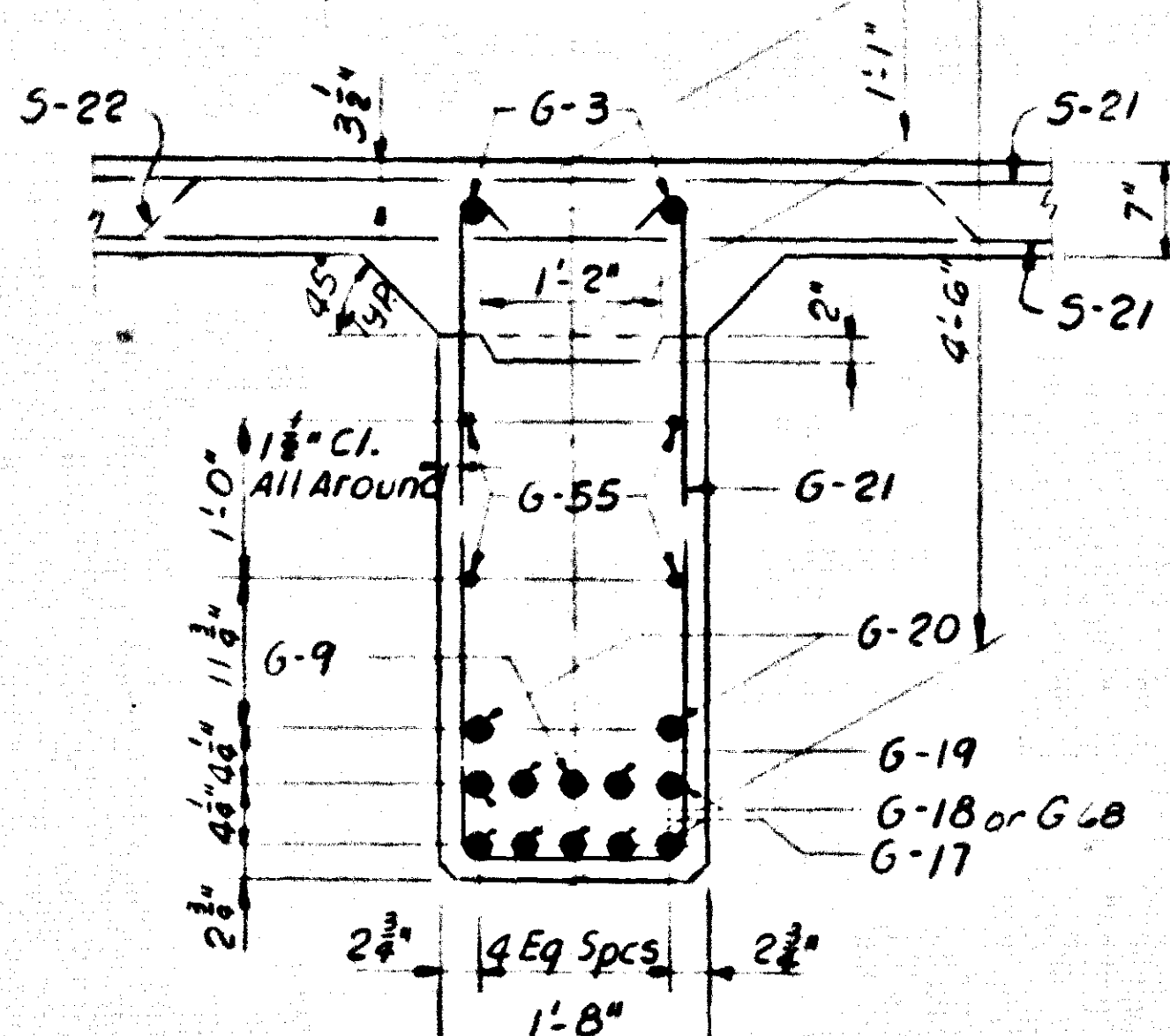
SECTION G-G
(AT FASCIA BEAM)



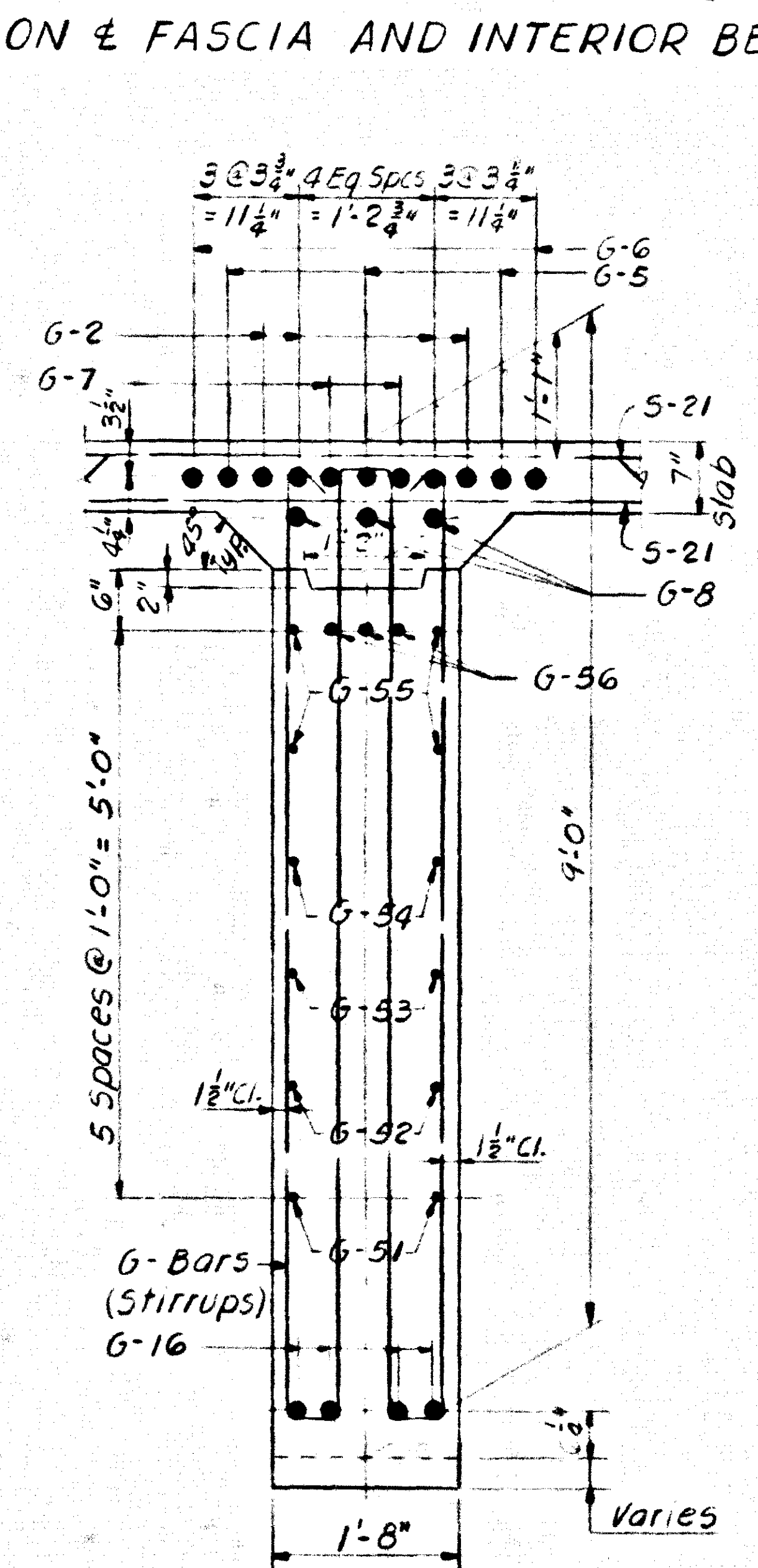
SECTION H-H
(AT FASCIA BEAM)



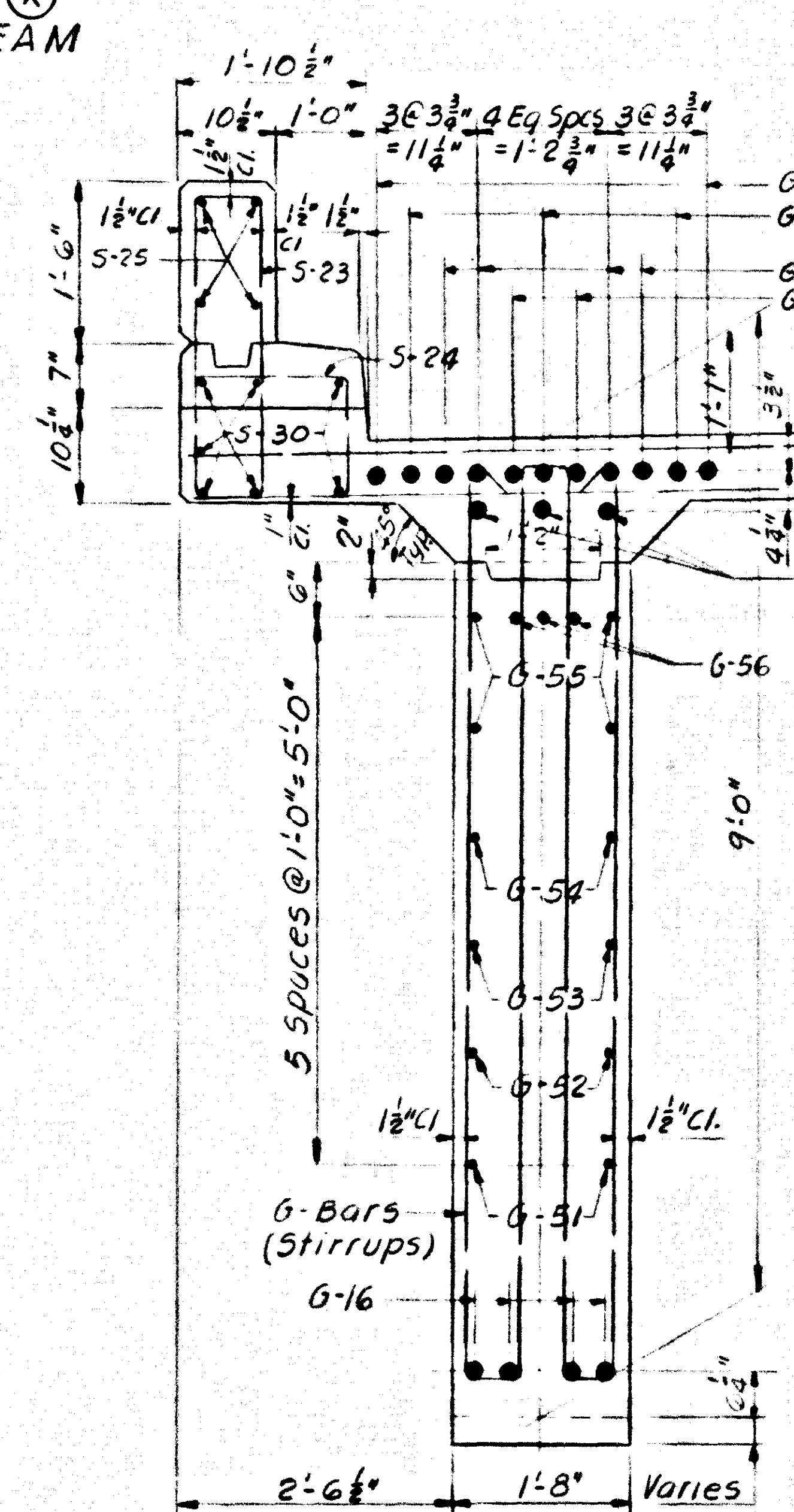
SECTION G-G
(AT INTERIOR BEAM)



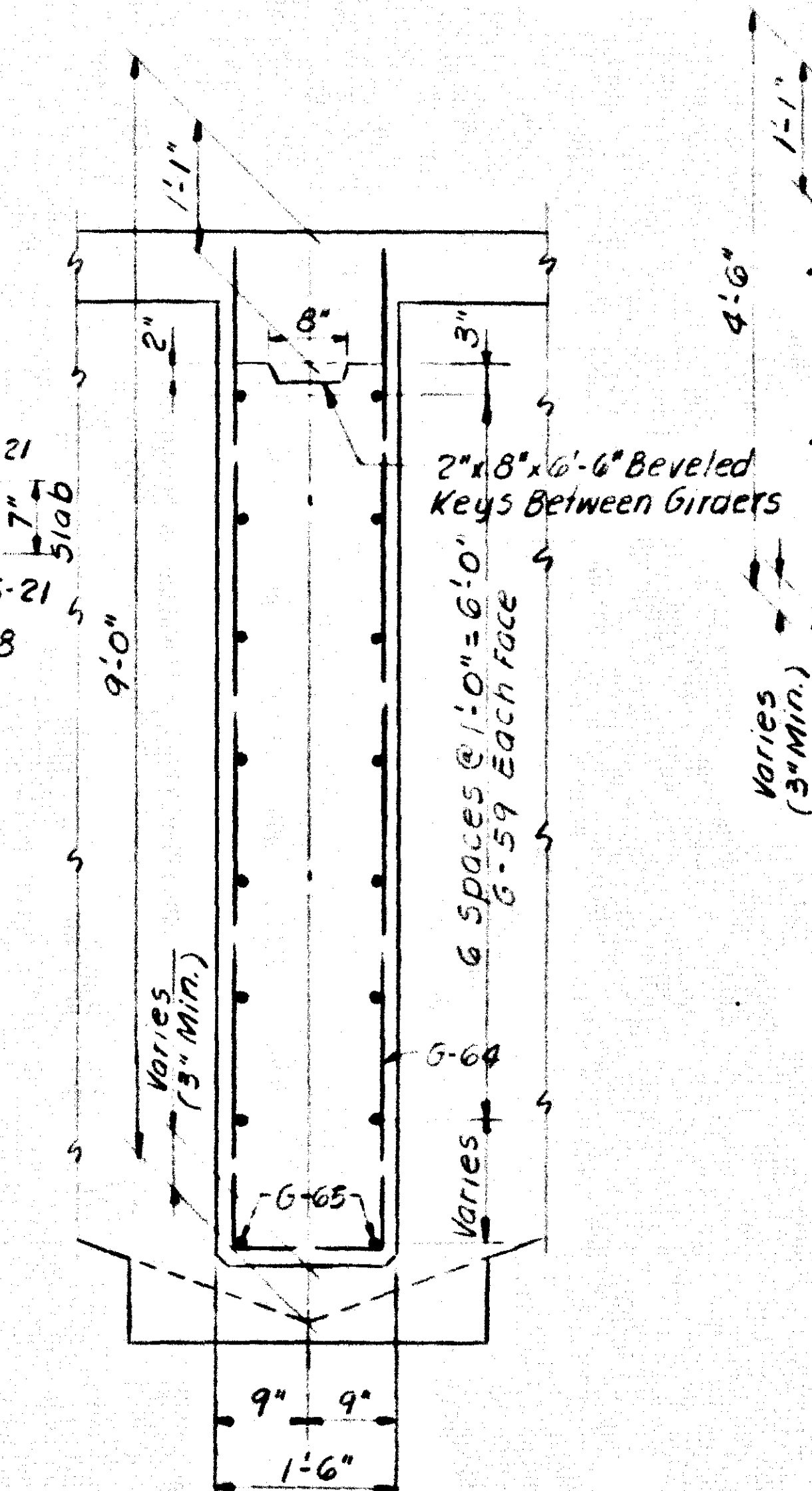
SECTION H-H
(AT INTERIOR BEAM)



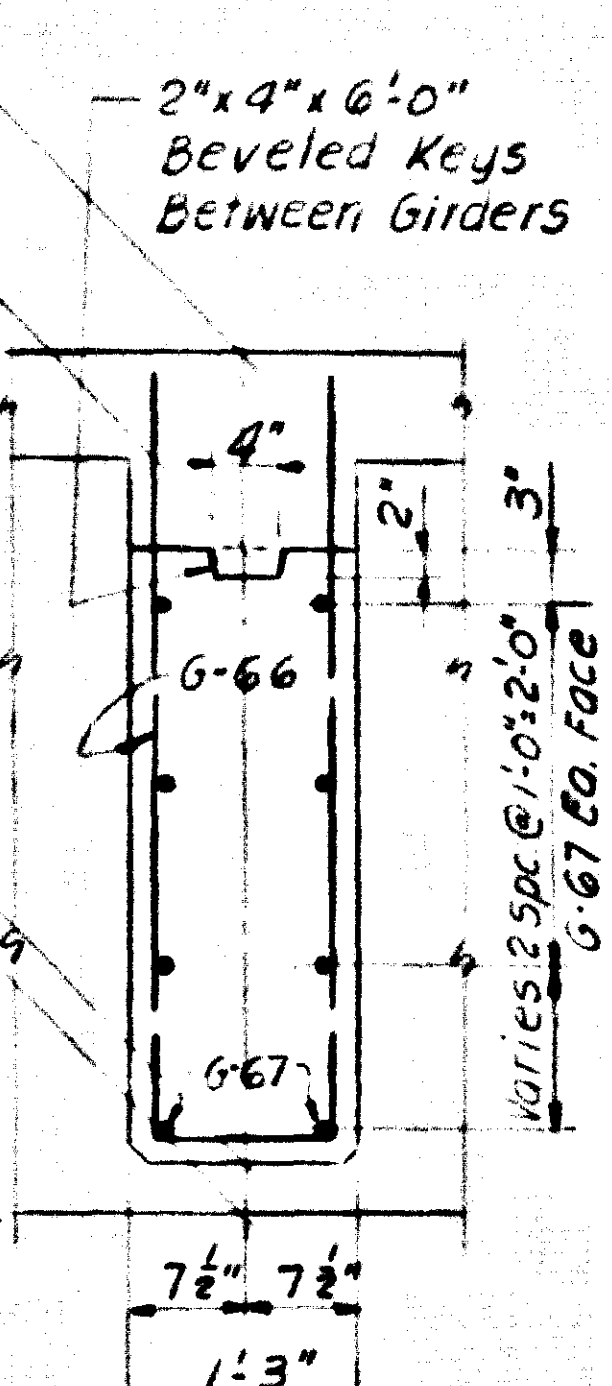
SECTION K-K
(AT INTERIOR BEAM)



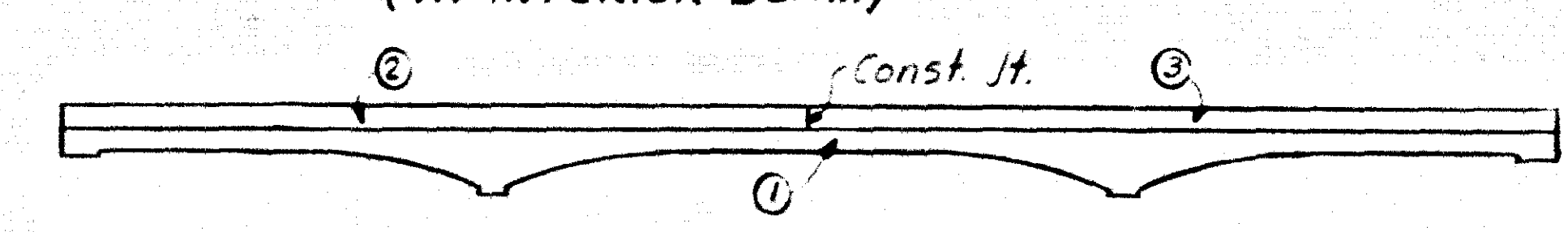
SECTION K-K
(AT FASCIA BEAM)



SECTION D-D



SECTION E-E



SEQUENCE OF POURING OPERATION

Notes
For Construction Elevations See Sheet 12413
Work This Sheet With Sheets 2, 9 & 11

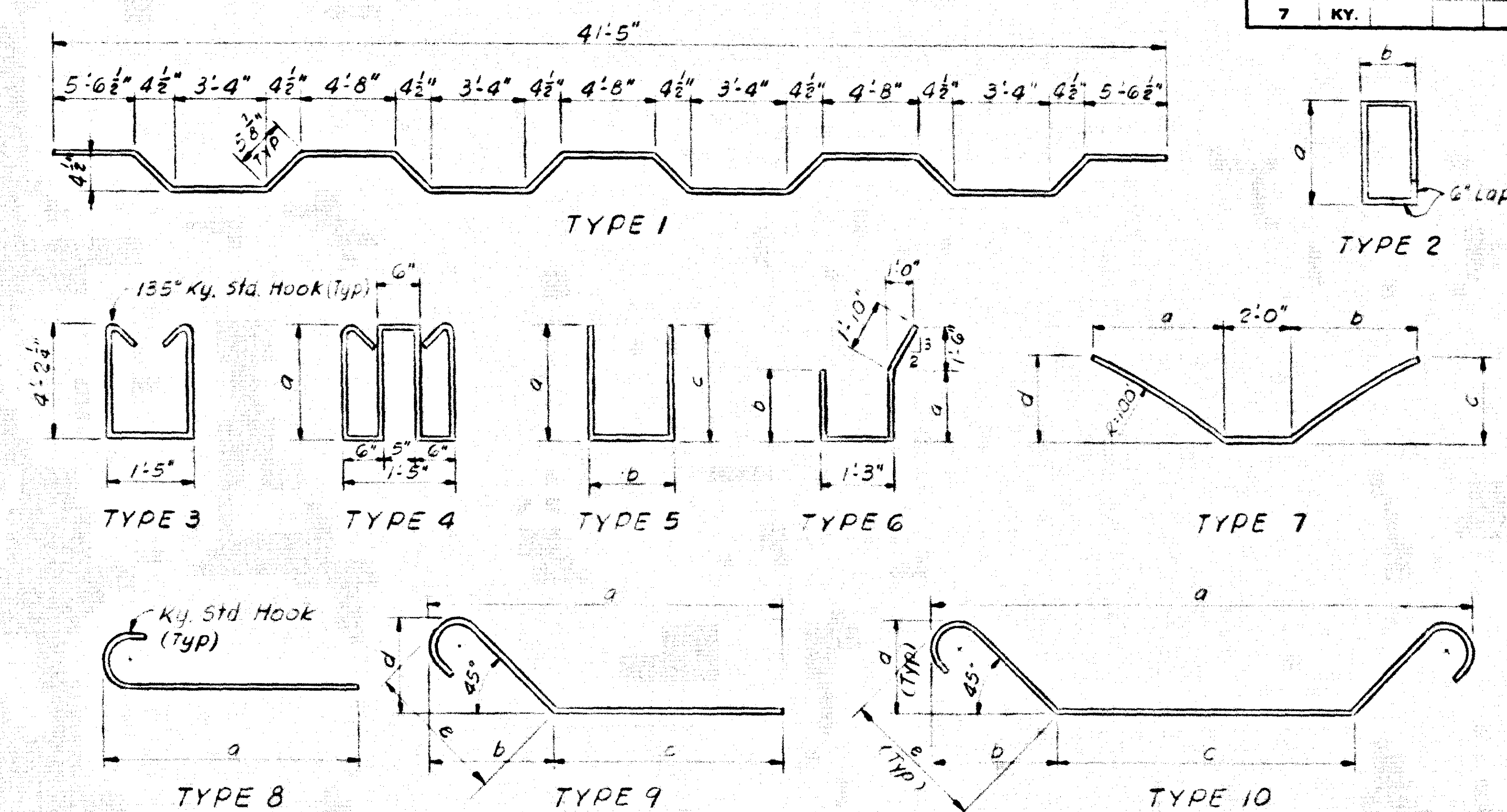
BRIDGE OVER BEARGRASS CREEK SHEET 12 OF 16

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
JEFFERSON
171 - OHIO STREET TO ZORN AVENUE

ROAD
STATION 344+35 PROJECT NO. 171-1
BRIDGE NUMBER 15935

SUPERSTRUCTURE

BRIDGE

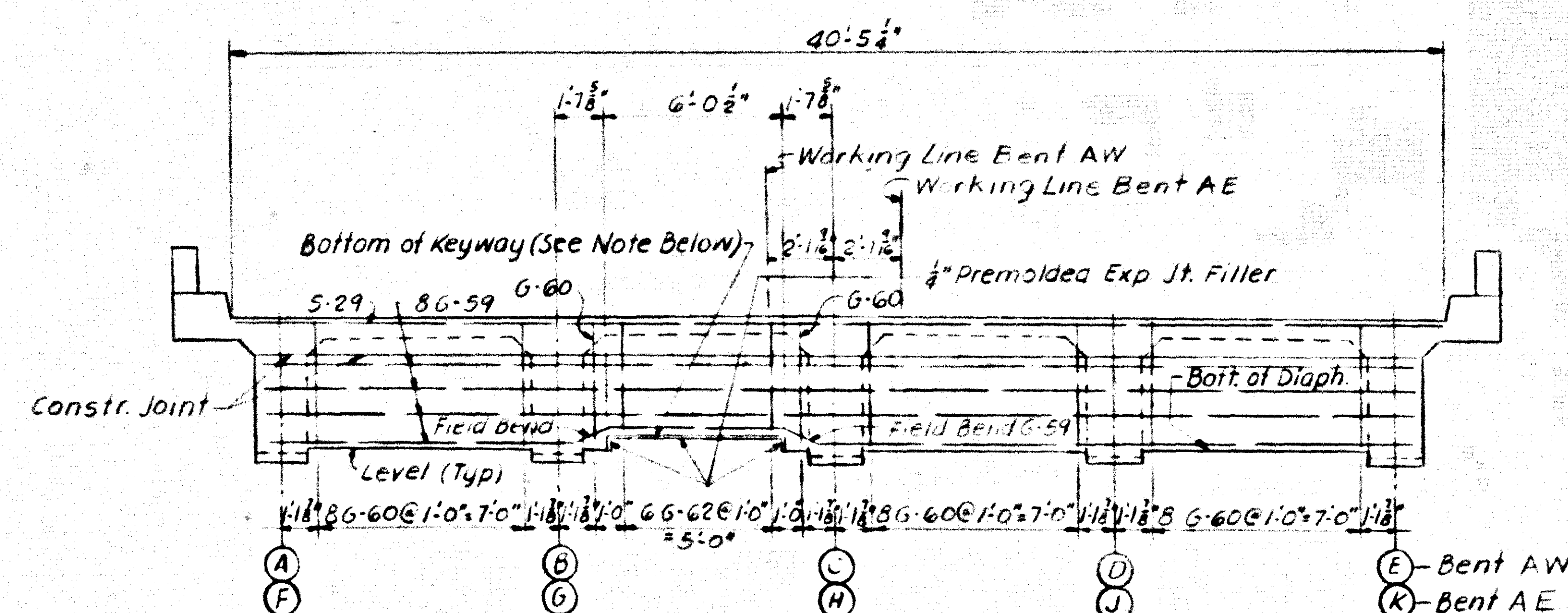
[illegible]

Concrete Class "A" 692.1 Cu Yds.
Steel Reinforcement 192.382 Lbs.
Metal Handrail (Type H112 or H113) 484.3 Lin ft
* 15 Floor Drains @ 75" 1,125 Lbs
Protective Coating 1,250 Sq Yds
EASTBOUND BRIDGE QUANTITIES

Dimension e For Type 9410 Bar

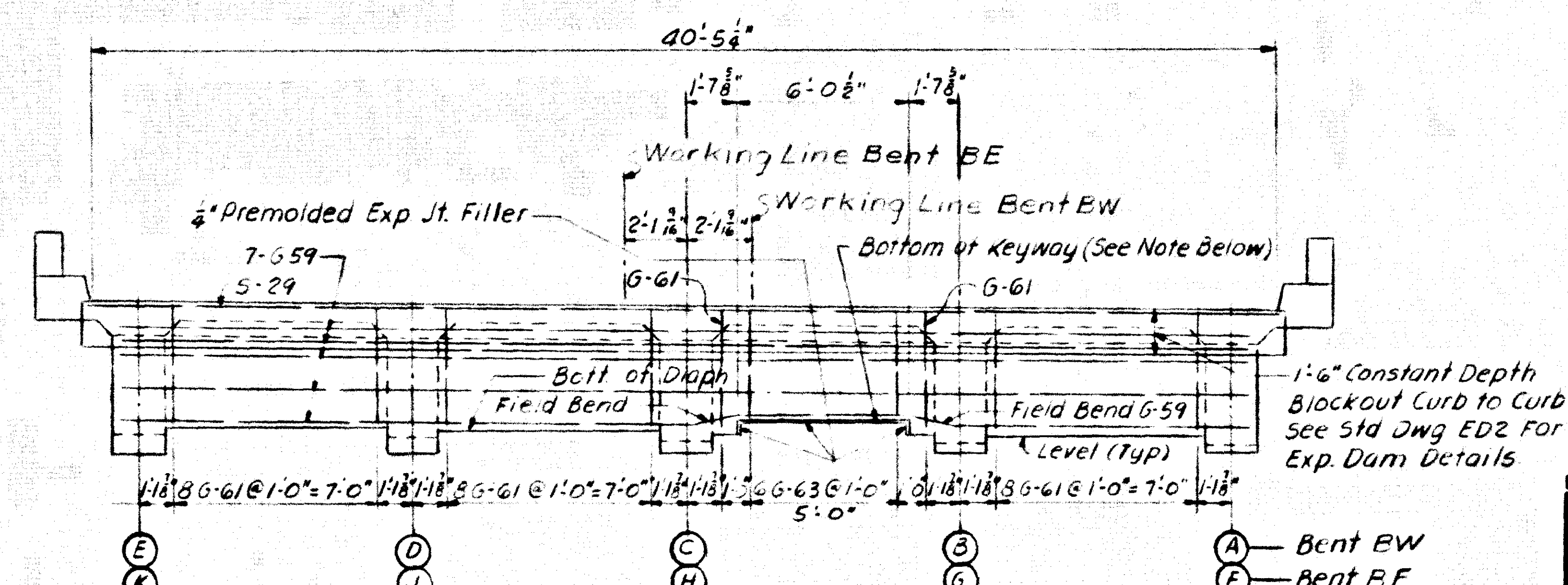
Mark	e	
	ft	in
G-7	5	8
G-8	6	1
G-12	4	7
G-13	5	4
G-14	4	9
G-15	4	9
G-18	5	4
G-19	5	4
G-6B	5	4

Concrete Class "A"	692.1 Cu. Yds
Steel Reinforcement	$\frac{192,322}{192,322}$ Lbs.
Metal Handrail (Type H112 or H113)	484.3 Lin ft
*15 Floor Drains @ 75"	1,125 Lbs.
Protective Coating	1,250 Sq Yds



ENDWALL ELEVATION BENT AW
ENDWALL ELEVATION BENT AE (SIMILAR)
Dimensions Measured Along & Bearing

Note:
Keyway Shown For Bent AE
For Bent AW Place Keyway
Between Beams (C) & (D)



ENDWALL ELEVATION BENT BW
ENDWALL ELEVATION BENT BE (SIMILAR)
Dimensions Measured Along & Bearing

Note:
Keyway Shown For Bent BE
For Bent EW Place Keyway
Between Beams (C) & (D)

Notes:
* The Cost of Floor Drains Shall Be Included in The "Lump Sum Bid" For Structural Steel.
Work This Sheet With Sheets 9 & 10

BRIDGE OVER BEARGRASS CREEK SHEET 11 OF 6

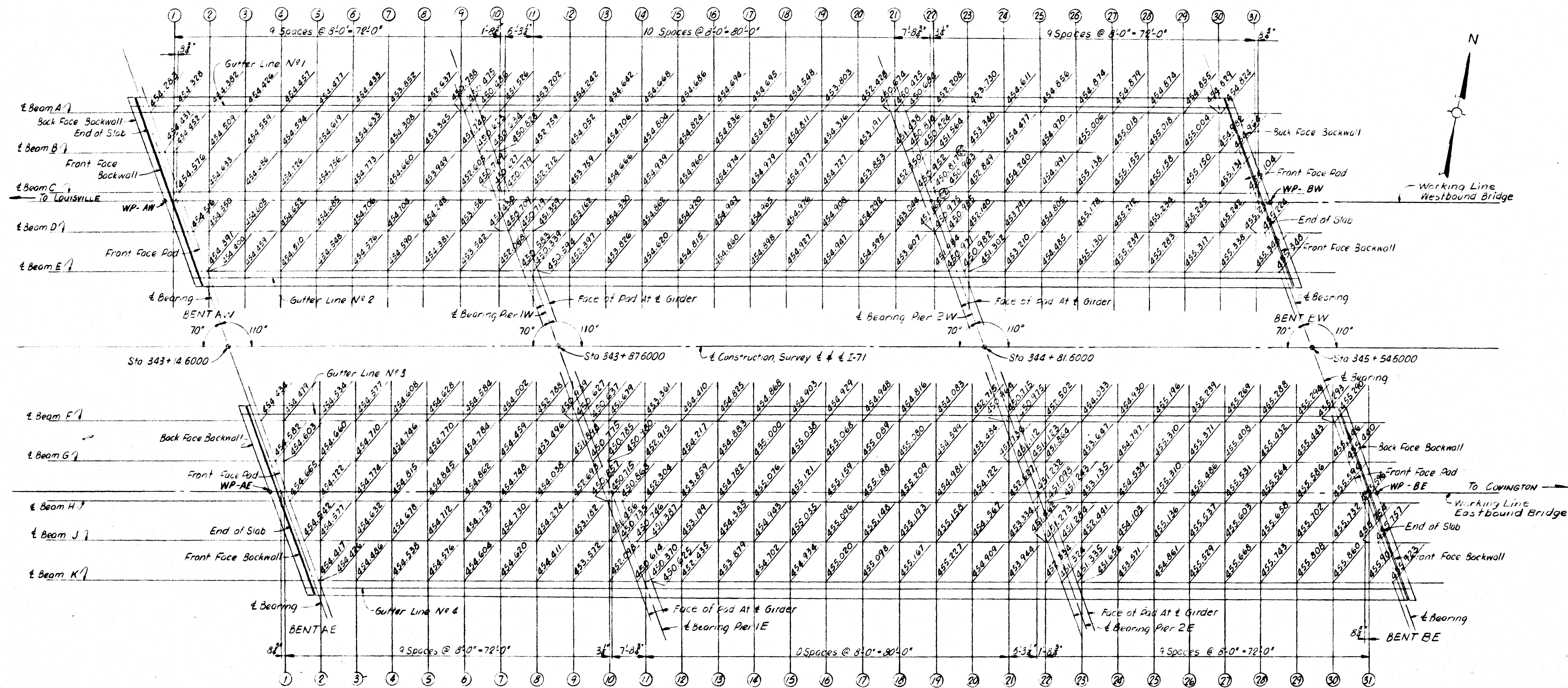
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
JEFFERSON
X 71 - OHIO STREET TO ZORN AVENUE

STATION 344+35		ROAD	PROJECT NO. 171-1
BRIDGE NUMBER			DRAWING 15935

SUPERSTRUCTURE

BRIDGE

NO. ROAD DIST.	STATE	PRO. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



PLAN OF SLAB
(Showing Bottom of Beam Elevations)

Note
Elevations Shown on This Sheet Include
Dead Load Camber And Are To Be
Maintained With Flarework in Place
Elevations Shown Are At Bottom of Beam Except Where
They Fall Within The Road, in Which Case The Elevations
Are Along The Theoretical Parabola.

BRIDGE OVER BEARGRASS CREEK SHEET 2 OF 6

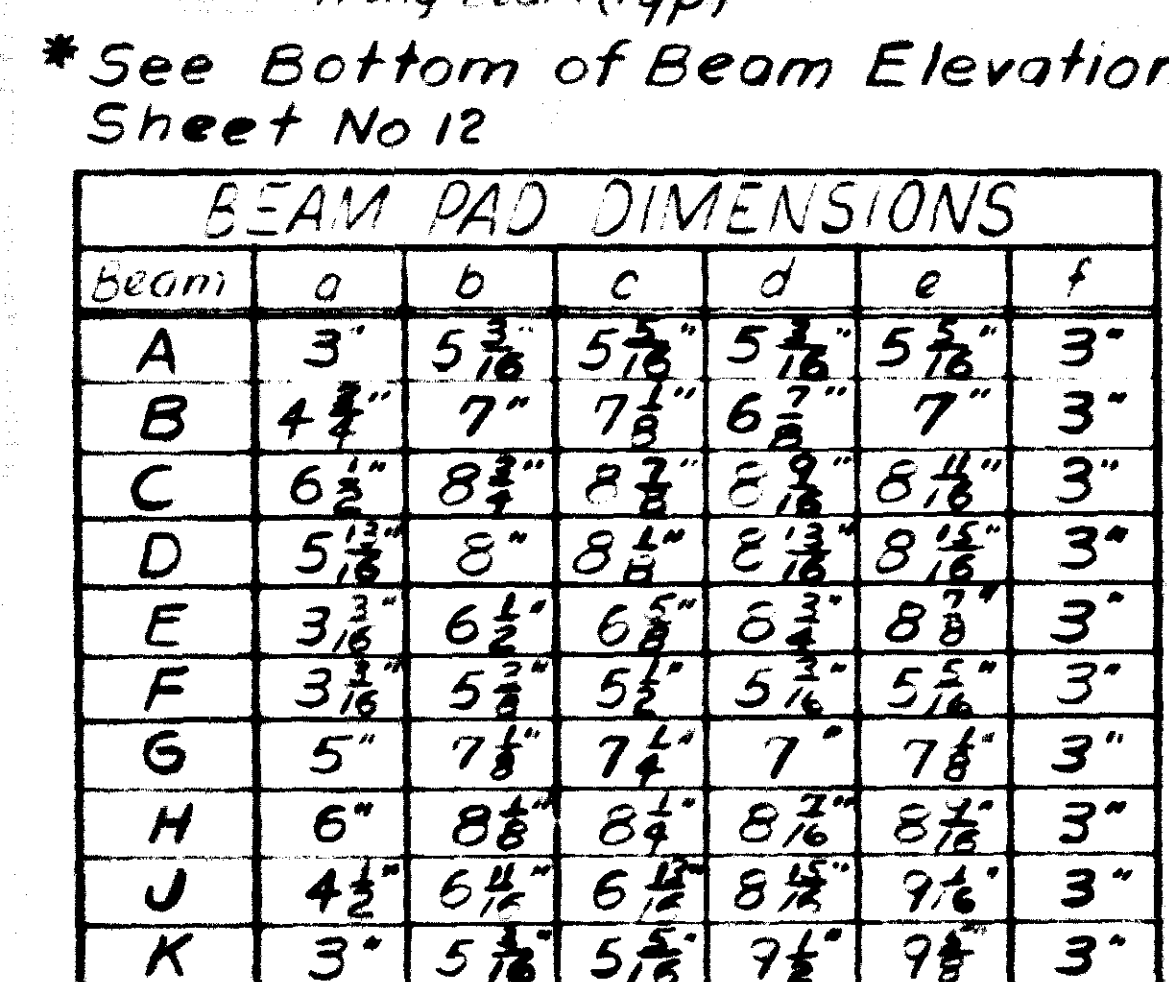
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
JEFFERSON
I 71 - OHIO STREET TO ZORN AVENUE

STATION 344+35 PROJECT NO. 171-1
BRIDGE NUMBER 15735

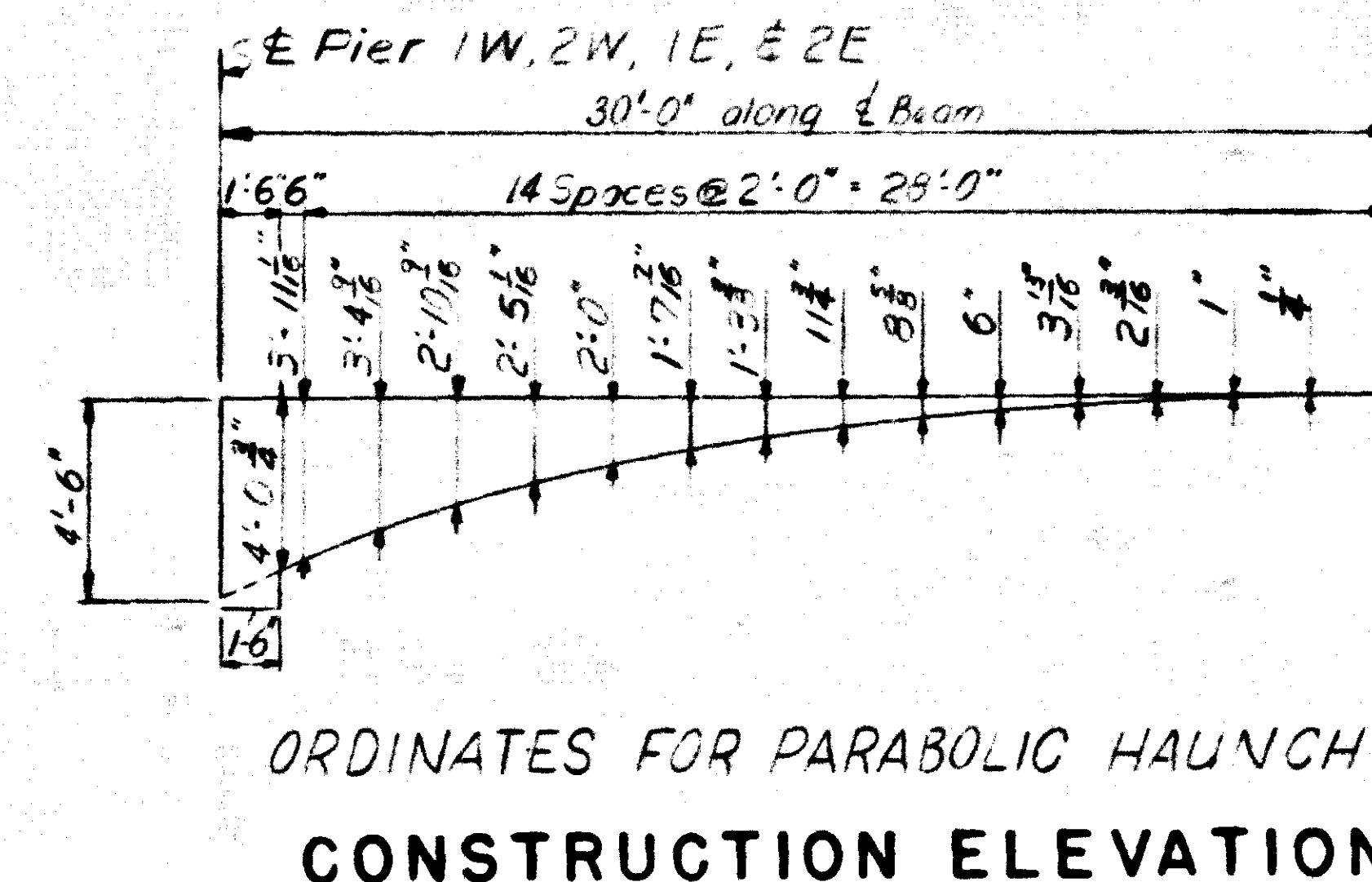
CONSTRUCTION ELEVATIONS

BRIDGE

TOP OF SLAB ELEVATIONS																
Line	Gutter Line N#1	Beam A	Beam C	Beam D	North Bridge	Beam D	Beam E	Gutter Line N#2	Gutter Line N#2	Beam F	Beam G	South Bridge	Beam H	Beam I	Beam J	Gutter Line N#4
I	458.745	458.770	458.918	459.063	451.075	459.003	459.379	458.957	455.876	458.721	457.069	457.152	457.300	459.205	458.535	
II	458.750	458.776	458.924	459.069	459.081	459.009	458.984	458.962	458.702	458.927	457.075	457.164	459.158	459.035	458.710	458.537
III	458.751	458.778	458.924	459.069	459.081	459.009	458.984	458.962	458.702	458.927	457.075	457.165	459.159	459.036	458.911	458.538
IV	459.017	459.042	459.190	459.335	459.347	459.075	459.150	459.127	459.163	459.173	459.341	459.340	459.424	459.302	459.180	459.160
V	459.216	459.240	459.390	459.531	459.536	459.541	459.531	459.538	459.505	459.531	459.677	459.781	459.779	459.740	459.191	459.160
VI	459.501	459.525	459.645	459.765	459.762	459.729	459.756	459.779	459.770	459.776	459.948	460.165	460.104	460.258	460.336	460.466
VII	459.302	459.326	459.445	459.566	459.562	459.730	459.859	459.361	459.771	459.777	459.749	460.067	460.105	460.270	460.439	460.495
VIII	459.304	459.328	459.446	459.568	459.564	459.734	459.864	459.386	459.777	459.782	459.756	460.075	460.114	460.279	460.447	460.477
1-1	458.804	458.829	458.962	459.103	459.103	459.005	459.361	458.976	459.010	459.034	459.165	459.334	459.452	459.377	459.326	459.793
2-2	458.959	458.983	459.121	459.261	459.261	459.163	459.519	459.134	459.168	459.192	459.323	459.492	459.610	459.533	459.482	459.794
3-3	458.973	458.997	459.135	459.275	459.275	459.177	459.533	459.148	459.182	459.206	459.337	459.506	459.624	459.547	459.496	459.795
4-4	458.987	459.011	459.149	459.289	459.289	459.191	459.547	459.162	459.196	459.220	459.351	459.520	459.638	459.561	459.510	459.796
5-5	458.993	459.017	459.155	459.295	459.295	459.197	459.553	459.168	459.202	459.226	459.357	459.526	459.644	459.567	459.516	459.797
6-6	458.999	459.023	459.161	459.301	459.301	459.203	459.559	459.174	459.208	459.232	459.363	459.532	459.650	459.573	459.522	459.798
7-7	458.974	458.998	459.133	459.273	459.273	459.175	459.530	459.143	459.177	459.201	459.332	459.501	459.619	459.542	459.491	459.799
8-8	458.989	459.013	459.151	459.291	459.291	459.193	459.544	459.158	459.192	459.216	459.347	459.516	459.634	459.557	459.506	459.799
9-9	459.010	459.034	459.172	459.312	459.312	459.214	459.568	459.183	459.217	459.241	459.372	459.541	459.659	459.582	459.531	459.800
0-0	459.037	459.061	459.199	459.339	459.339	459.241	459.572	459.189	459.223	459.247	459.378	459.547	459.665	459.588	459.537	459.801
10-10	459.069	459.093	459.231	459.371	459.371	459.273	459.586	459.200	459.234	459.258	459.389	459.558	459.676	459.599	459.548	459.802
12-12	459.107	459.131	459.263	459.403	459.402	459.303	459.610	459.217	459.251	459.282	459.414	459.495	459.485	459.463	459.423	459.803
13-13	459.152	459.175	459.305	459.443	459.442	459.346	459.656	459.265	459.297	459.328	459.456	459.536	459.514	459.470	459.427	459.804
14-14	459.192	459.215	459.346	459.485	459.485	459.387	459.697	459.297	459.334	459.365	459.488	459.568	459.546	459.497	459.450	459.805
15-15	459.210	459.234	459.368	459.500	459.511	459.435	459.706	459.351	459.380	459.403	459.528	459.622	459.621	459.601	459.457	459.806
16-16	459.216	459.240	459.374	459.513	459.526	459.443	459.711	459.357	459.386	459.409	459.536	459.666	459.667	459.646	459.521	459.807
17-17	459.215	459.239	459.380	459.519	459.532	459.448	459.719	459.357	459.386	459.409	459.536	459.666	459.667	459.646	459.521	459.808
18-18	459.213	459.237	459.378	459.517	459.531	459.449	459.717	459.357	459.386	459.409	459.536	459.666	459.667	459.646	459.521	459.809
19-19	459.214	459.238	459.379	459.518	459.532	459.451	459.718	459.357	459.386	459.409	459.536	459.666	459.667	459.646	459.521	459.810
20-20	459.206	459.230	459.368	459.506	459.524	459.504	459.715	459.347	459.376	459.399	459.526	459.656	459.657	459.636	459.512	459.811
21-21	459.216	459.239	459.379	459.519	459.527	459.516	459.724	459.357	459.386	459.409	459.536	459.666	459.667	459.646	459.521	459.812
22-22	459.230	459.253	459.395	459.520	459.538	459.535	459.513	459.510	459.539	459.562	459.694	459.789	459.789	459.768	459.722	459.813
23-23	459.251	459.274	459.405	459.536	459.556	459.559	459.550	459.549	459.580	459.603	459.735	459.830	459.829	459.808	459.762	459.814
24-24	459.279	459.301	459.430	459.561	459.577	459.579	459.570	459.569	459.598	459.621	459.753	459.848	459.847	459.826	459.780	459.815
25-25	459.305	459.328	459.458	459.586	459.602	459.607	459.594	459.593	459.622	459.645	459.777	459.872	459.871	459.850	459.804	459.816
26-26	459.328	459.352	459.482	459.613	459.633	459.636	459.625	459.624	459.653	459.676	459.799	459.894	459.893	459.872	459.826	459.828
27-27	459.339	459.363	459.500	459.634	459.657	459.702	459.745	459.744	459.773	459.796	459.919	459.918	459.897	459.850	459.804	459.830
28-28	459.339	459.363	459.504	459.642	459.668	459.726	459.769	459.768	459.797	459.820	459.943	459.942	459.921	459.874	459.828	459.831
29-29	459.326	459.349	459.485	459.640	459.667	459.739	459.782	459.781	459.810	459.833	459.956	459.955	459.934	459.887	459.840	459.834
30-30	459.305	459.328	459.477	459.626	459.654	459.739	459.781	459.780	459.809	459.832	459.955	459.954	459.933	459.886	459.839	459.832
31-31				459.604	459.631	459.731	459.774	459.773	459.802	459.825	459.948	459.947	459.926	459.879	459.832	459.835



Elevations shown on this sheet include dead load camber and are to be maintained with falsework in place.



BRIDGE OVER BEARGRASS CREEK SHEET 3 OF 6

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
JEFFERSON
I 71 - OHIO STREET to ZORN AVENUE

ROAD

STATION 344+55

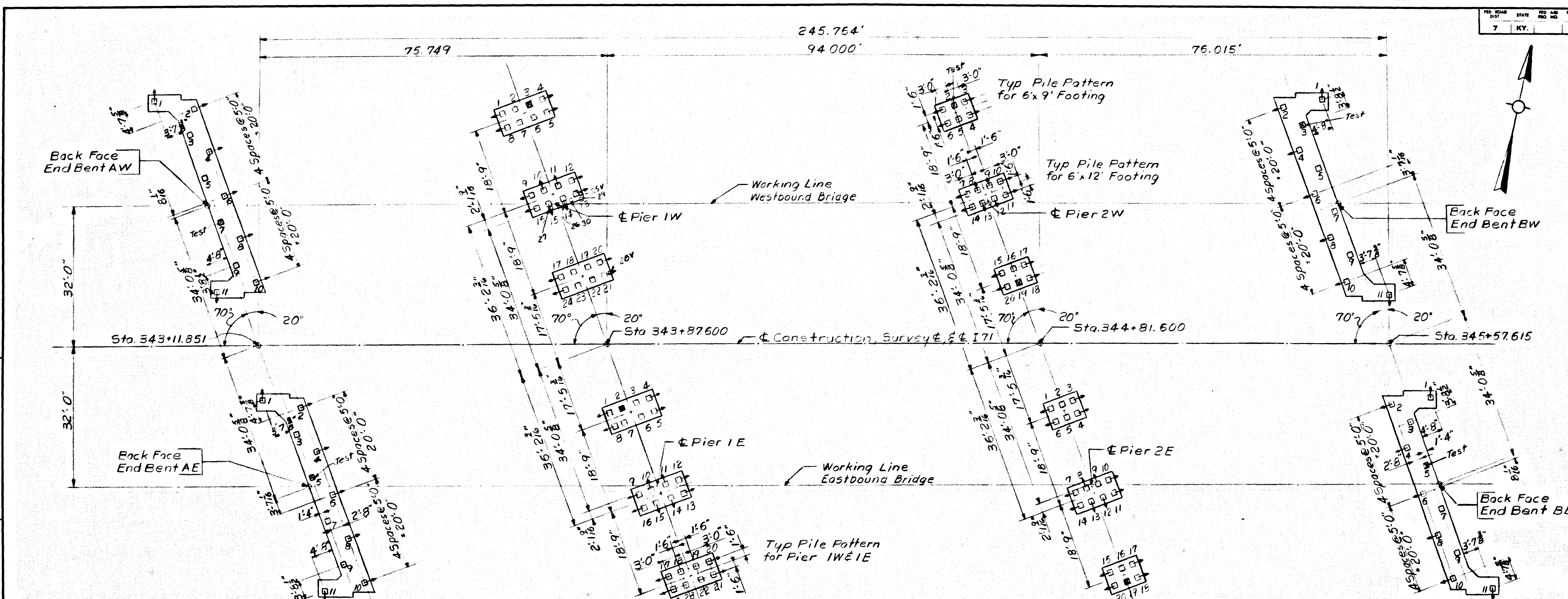
PROJECT NO. 171-1

BRIDGE NUMBER	DATE 1/5/85	DRAWN NO.	CHECK
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BRIDGE

HAZLET & EDDAL
CONSULTING ENGINEERS
FILE NO. 871-C

DATE: 10/1/54
BY: HAZLET & EDDAL
CHECKED BY: M.D.C.
DATE: 10/1/54



BENT AW					PIER 1W					PIER 1E					PIER 2W					PIER 2E					BENT BW					
Pile No.	Cutoff Elevation	Tip of Pile Elevation	Length of Pile in Place	Calculated Bearing Cap-Tons	Pile No.	Cutoff Elevation	Tip of Pile Elevation	Length of Pile in Place	Calculated Bearing Cap-Tons	Pile No.	Cutoff Elevation	Tip of Pile Elevation	Length of Pile in Place	Calculated Bearing Cap-Tons	Pile No.	Cutoff Elevation	Tip of Pile Elevation	Length of Pile in Place	Calculated Bearing Cap-Tons	Pile No.	Cutoff Elevation	Tip of Pile Elevation	Length of Pile in Place	Calculated Bearing Cap-Tons	Pile No.	Cutoff Elevation	Tip of Pile Elevation	Length of Pile in Place	Calculated Bearing Cap-Tons	
15	45.39	40.20	55.50	87	15	408.615	351.53	58.85	100	16	408.733	363.65	40.30	100	18	409.313	367.88	40.67	85	16	409.604	377.59	33.00	85	18	450.10	400.72	51.21	100	
26	45.39	398.29	53.50	10	27	408.615	347.02	61.60	100	27	408.733	360.15	46.40	100	29	409.313	359.94	44.87	85	29	409.604	372.55	37.25	85	29	450.10	399.48	52.44	90	
37	45.39	396.77	53.92	85	37	408.615	393.65	64.97	100	37	408.733	366.90	40.35	100	37	409.313	362.34	46.42	85	37	409.604	374.36	36.33	85	37	450.10	398.70	51.70	90	
46	45.39	394.44	56.83	92	46	408.615	374.96	61.60	101	46	408.733	364.95	40.00	100	46	409.313	363.99	47.25	85	46	409.604	376.30	34.33	85	46	450.10	398.24	51.29	97	
57	45.39	394.44	53.75	85	57	408.615	394.44	65.95	100	58	408.733	370.32	39.00	100	57	409.313	361.14	48.17	85	57	409.604	378.95	36.25	85	57	450.10	399.92	50.98	97	
66	45.39	394.34	52.92	92	66	408.615	362.04	48.58	100	67	408.733	371.60	37.15	101	68	409.313	362.66	38.72	85	68	409.604	352.10	33.50	85	68	450.10	399.93	54.60	90	
77	45.39	374.46	75.33	85	77	408.615	351.52	51.10	107	77	408.733	362.80	45.95	107	78	408.813	362.89	47.35	85	78	409.104	376.93	36.16	85	77	450.10	401.20	49.20	112	
88	45.39	376.43	55.92	85	88	408.615	351.14	59.25	100	88	408.733	371.32	39.08	107	88	409.313	360.71	47.58	85	88	409.604	376.97	33.12	85	88	450.10	399.94	51.7	100	
99	45.39	371.44	50.75	112	99	408.615	351.87	58.50	107	98	408.733	357.33	53.00	107	98	409.313	361.11	49.17	85	98	409.604	376.12	34.00	85	99	450.10	398.11	52.29	112	
108	45.39	394.44	51.83	75	108	408.615	351.68	58.90	100	108	408.733	353.05	52.42	100	108	409.313	362.90	42.17	85	108	409.604	377.10	34.17	85	108	450.10	399.24	54.80	95	
118	450.189	400.82	73.83	90	118	408.615	354.98	55.90	100	118	408.733	355.88	54.50	100	118	409.313	362.58	42.50	85	118	409.604	374.92	35.75	85	118	450.10	399.32	53.68	100	
					128	408.615	350.01	53.20	107	128	408.733	353.13	52.33	107	128	409.313	360.61	41.75	85	128	409.604	376.12	34.00	85						
					138	Bottom Out Replaced By 25V				138	408.733	362.49	45.30	107	138	409.313	368.11	40.12	85	138	409.604	372.31	34.72	85						
					148				26V	148	408.733	364.75	46.18	107	148	408.813	362.75	42.33	85	148	409.104	372.89	37.93	85						
					158				27V	158	408.733	349.48	40.58	107	158	409.313	361.28	43.93	85	158	409.604	374.52	36.16	85						
					168		351.00	59.90	100	168	408.733	358.23	52.08	100	168	409.313	360.39	48.92	85	168	409.604	371.18	38.92	85						
					178		362.54	47.50	100	178	408.733	313.15	36.47	101	178	409.313	360.704	39.50	85	178	409.604	375.65	35.00	85						
					188		356.40	52.22	100	188	408.733	310.42	38.33	100	188	409.313	361.39	47.92	85	188	409.604	375.65	35.00	85						
					198		358.60	50.78	107	198	408.733	364.50	39.25	100	198	409.313	360.31	51.00	85	198	409.604	375.77	35.83	85						
					208		357.81	52.38	100	208	408.733	348.30	62.00	100	208	409.313	369.13	41.92	85	208	409.604	372.59	33.00	85						
					218	Bottom Out Replaced By 28V				218	408.733	361.35	48.83	100																
					228		358.59	50.08	100	228	408.733	344.75	49.00	107																
					238		371.62	37.00	107	238	408.733	364.92	39.99	107																
					248	408.615	374.97	32.70	100	248	408.733	372.37	37.50	107																
					258	Bottom Out Replaced By 31V				258	408.733	361.35	48.83	100																
					268				30V	268	408.733	344.75	49.00	107																
					278		374.12	34.50	100	278	408.733	344.75	49.00	107																
					288		344.97	63.75	100	288	408.733	364.92	39.99	107																
					298		362.74	36.18	100	298	408.733	364.92	39.99	107																
					308	408.615	375.55	33.20	100	308	408.733	364.92	39.99	107																

Indicates Direction of 3:12 Batter.

Indicates Test Pile for length (Estimated Pile Tip Elevation 385.0)

Indicates Load Test Pile

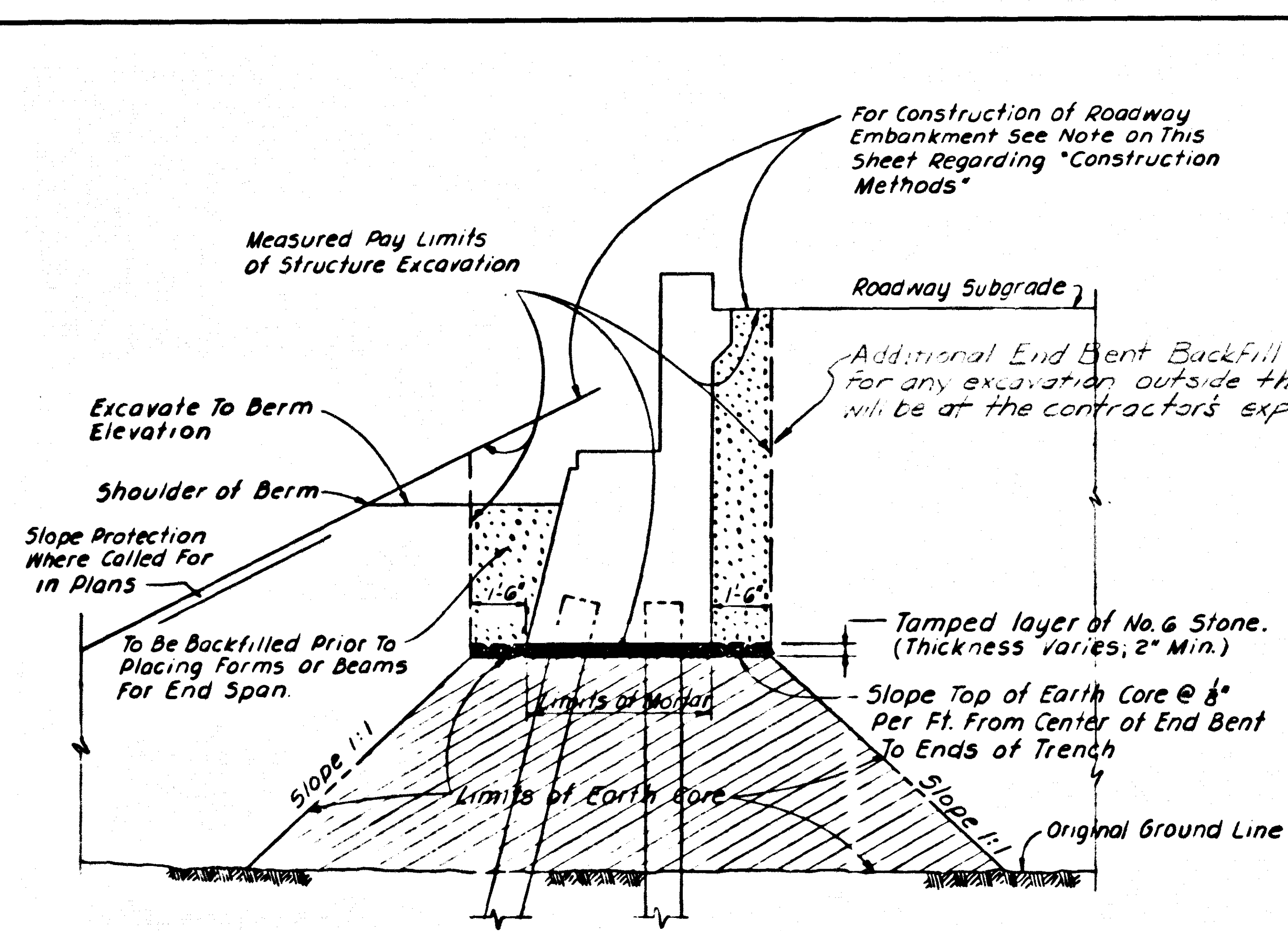
ESTIMATED

TEST PILE LENGTH

Piers 1W, 2W, 1E & 2E 35 Lm.Ft.

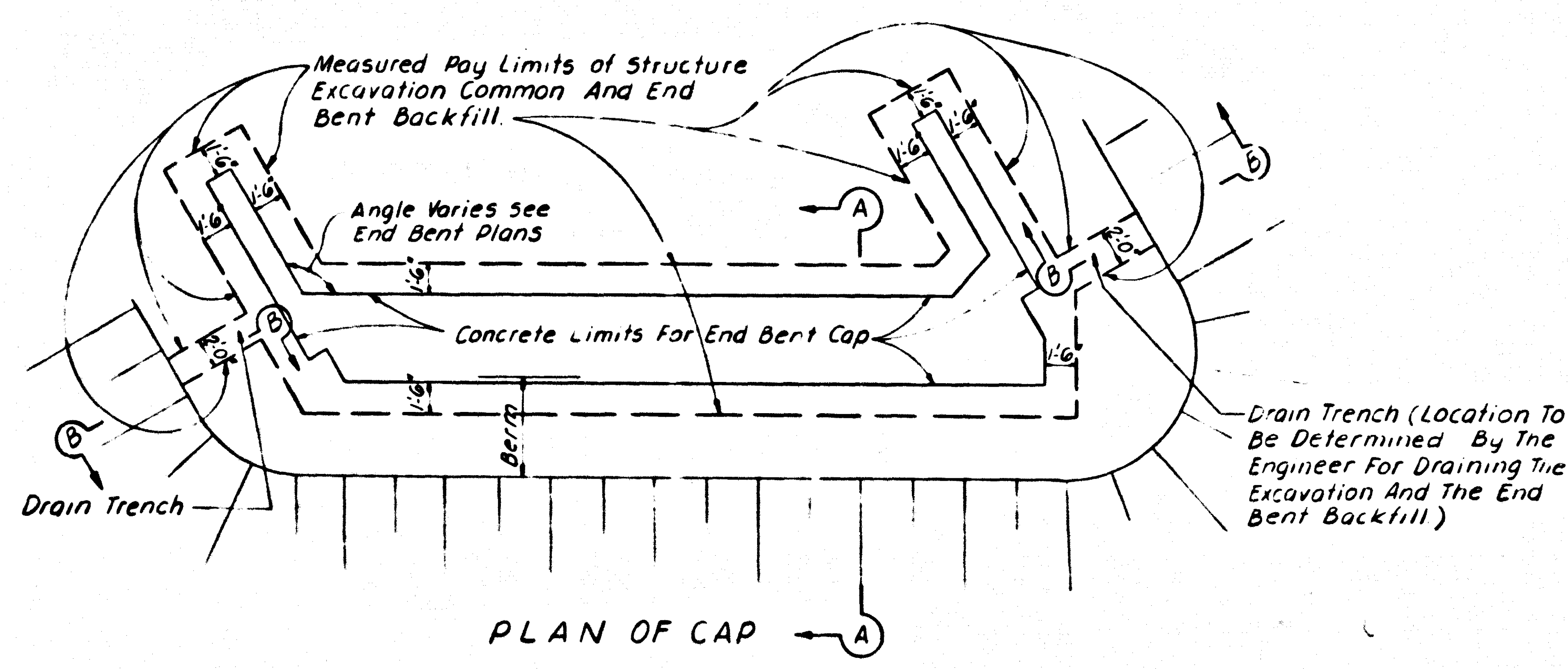
HAZLET & ERDAL
CONSULTING ENGINEERS
FILE NO. 871-E

DESIGNED BY: M. Farland
CHECKED BY: R. L. L.
DATE: 1966

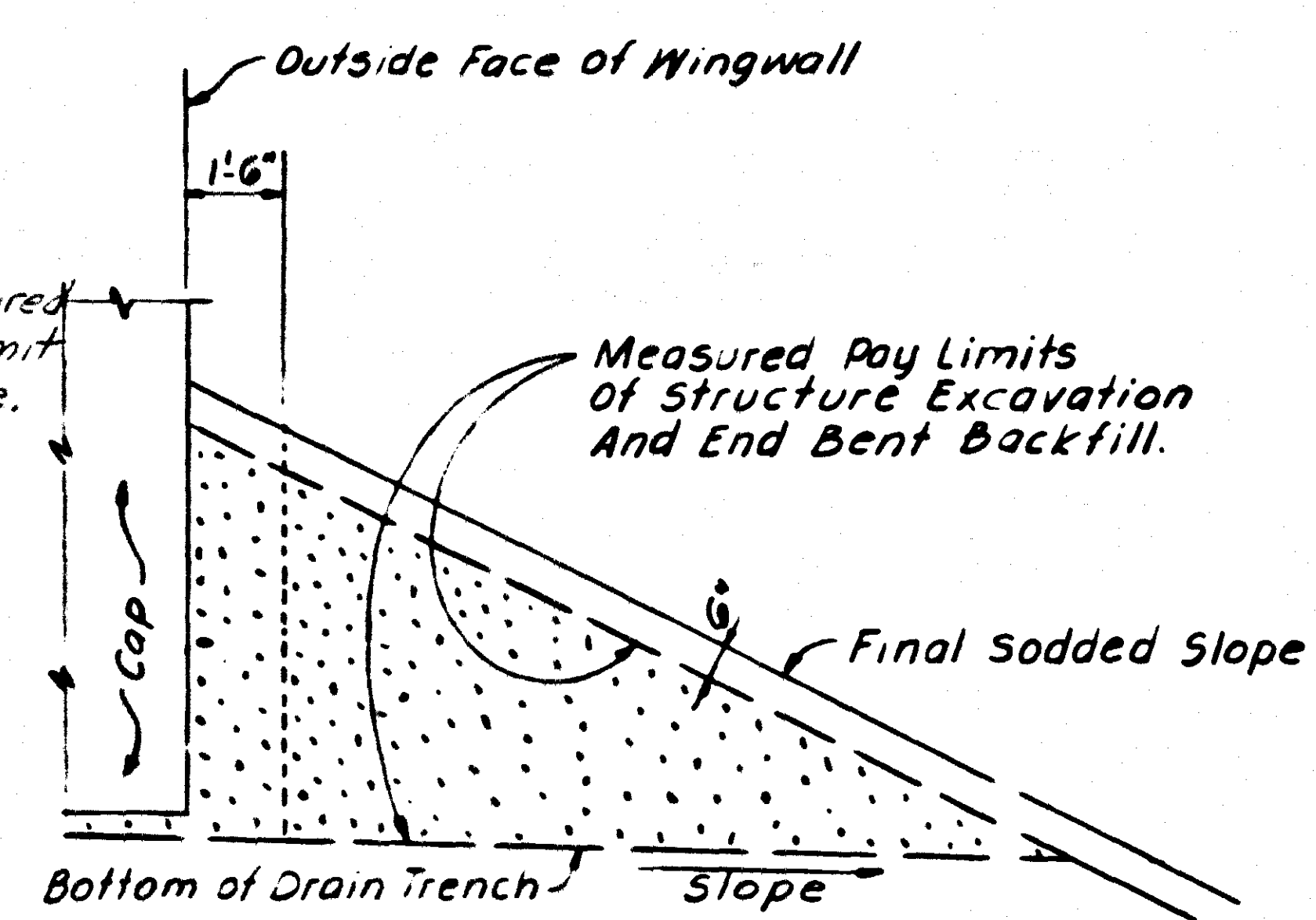


SECTION A-A

LEGEND: [Pattern] Pay limits for End Bent Backfill.



PLAN OF CAP



SECTION B-B
(Thru Trench)

NOTES

MATERIALS: EARTH CORE-In Addition To Meeting Requirements For Embankment Materials in Accordance With The Specifications, The Earth Core Shall Be Free of Boulders or Any Other Obstructions Which Would Interfere With The Driving of Piles.

END BENT BACKFILL-End Bent Backfill Material Shall Consist of Natural Sand or Concrete Sand or Dense Graded Aggregate Meeting Requirements of The Specifications; or Sand, Crushed or Uncrushed Gravel, Crushed Limestone, Crushed Sandstone, Crushed Slag or a Combination Thereof, Meeting The Following Requirements:

GRADATION	SIEVE SIZE	Percent Passing
	3/4 Inch	100
	1/2 Inch	50-90
	3/8 Inch	20-40

SOUNDNESS Percentage Loss After Subjection To Five Alternations of The Sodium Sulfate Soundness Test, not More Than 20

WEAR Percent, Not More Than 50

SHALE Percent, Not More Than 5

DIRT Percent, Not More Than 5

CONSTRUCTION METHODS: Prior To Driving Piles, The Roadway Embankment At The Location For a Pile End Bent Shall Be Constructed To The Roadway Subgrade Elevation At Full Embankment Section For Front And Side Slopes in Accordance With The Specifications For "Extra Compaction". After The Embankment Has Been Constructed, Excavate To The Bottom of Bent Cap Elevation Within The Limits Indicated Before Driving Piles. After Piles Are Driven (See General Notes) Slope Bottom of Excavation Toward Ends of Trench As Noted For Drainage. Place # 6 Crushed Stone in Trench To Bottom of End Bent Elevation, Tamped Well. Place 1:2 Cement Mortar To Bottom of Cap Elevation. Side Forms For End Bent May Be Placed As Soon As Mortar Has Set Sufficiently To Support Workmen And Forms Without Being Disturbed. After Concrete Cap Has Been Placed The Excavation Shall Be Filled With "End Bent Backfill" Material Noted Above To Level of The Berm Prior To Placing Beams For The Bridge. After Concrete Backwall Has Been Placed The "End Bent Backfill" Shall Be Placed Up To Subgrade Elevation If The Original Excavation Has Been Enlarged Beyond The Limits Shown, The Entire Excavation, Regardless of The Limits Shall Be Backfilled With The End Bent Backfill Material.

End Bent Backfill Shall Be Placed in Drainage Trenches At Ends of The Excavation To Embankment Side Slopes, As Shown in Section B-B. The Backfill Shall Be Tamped By Hand Tampers, Pneumatic Tampers or Other Means Approved By The Engineer. Core Shall Be Exercised To Thoroughly Compact The Backfill Under The Haunches of The Structure To Insure That The Backfill is in Intimate Contact With The Sides of The Structure. The Density of The Backfill Shall Be At Least Equal To That Required For The Adjacent Embankment.

MEASUREMENT AND PAYMENT: Excavation For The Pile End Bent Shall Be Measured As Shown in "Plan" And "Section" And Will Be Paid For As "Structure Excavation Common" in Accordance With The Specifications. Pay Limits For Structure Excavation Shall Serve As Limits For Determining Quantity For Payment For "End Bent Backfill" Which Quantity Shall Be Paid For At The Unit Price Per Cubic Yard Bid For "End Bent Backfill"; except that the volume of concrete and crushed stone and mortar placed under the end bent will not be paid for separately and shall be incidental to and included in the Unit Price Bid for Class "A" concrete.

cap and void directly above the berm shall be deducted from the measurement for "Structure Excavation" to establish the quantity for payment for "End Bent Backfill."

BRIDGE OVER BEARGRAVE CREEK SHEET 6 OF

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
JEFFERSON
171-CHIO STREET TO ZORN AVENUE
LOUISVILLE- COVINGTON
ROAD
STATION 344+35 PROJECT NO. 171-11100
BRIDGE NUMBER 15935

END BENT BACKFILL

BRIDGE