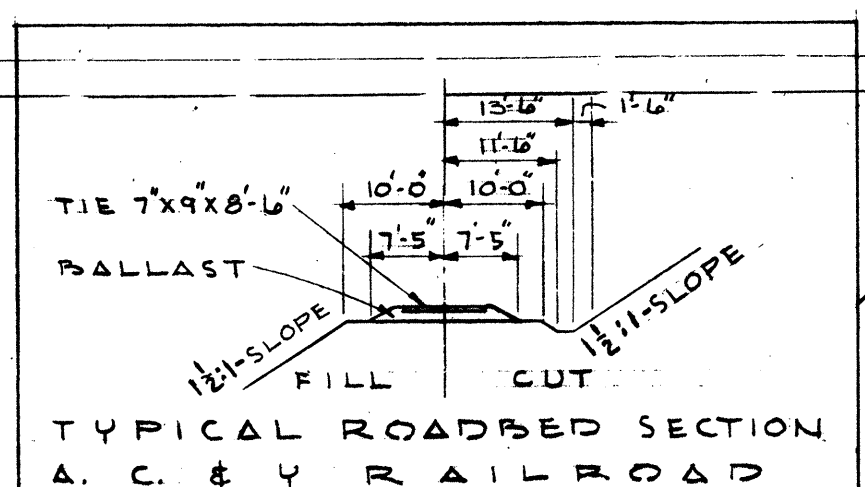
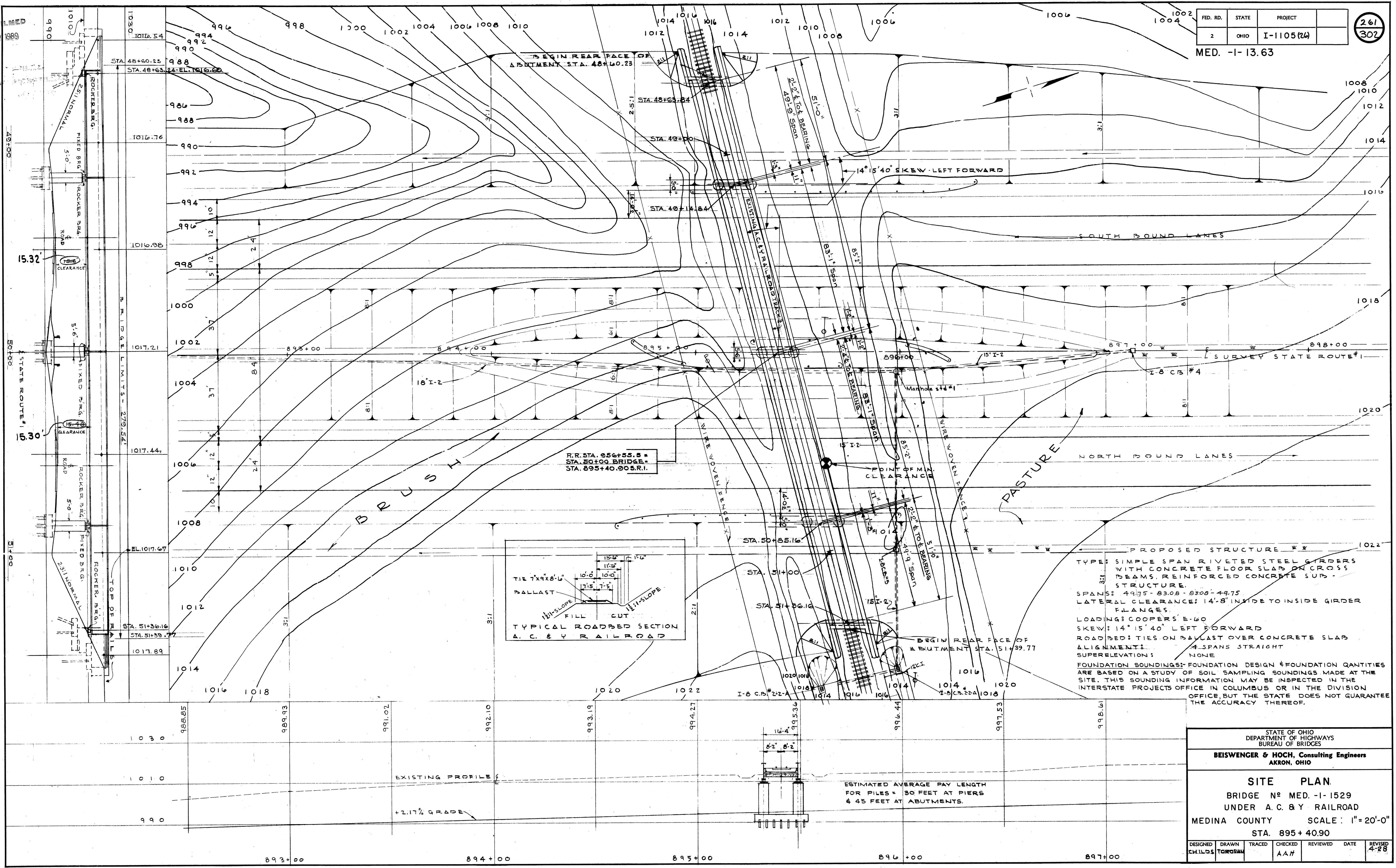


MICROFILMED
DEC 27 1989

FED. RD.	STATE	PROJECT
2	OHIO	I-1105(24)

261
302

MED. -1-13.63



PROPOSED STRUCTURE

TYPE: SIMPLE SPAN RIVETED STEEL GIRDERS WITH CONCRETE FLOOR SLAB ON CROSS BEAMS, REINFORCED CONCRETE SUB-STRUCTURE.

SPANS: 49.75 - 83.08 - 83.08 - 49.75

LATERAL CLEARANCE: 14'-8" INSIDE TO INSIDE GIRDER FLANGES.

LOADING: COOPER'S E-60

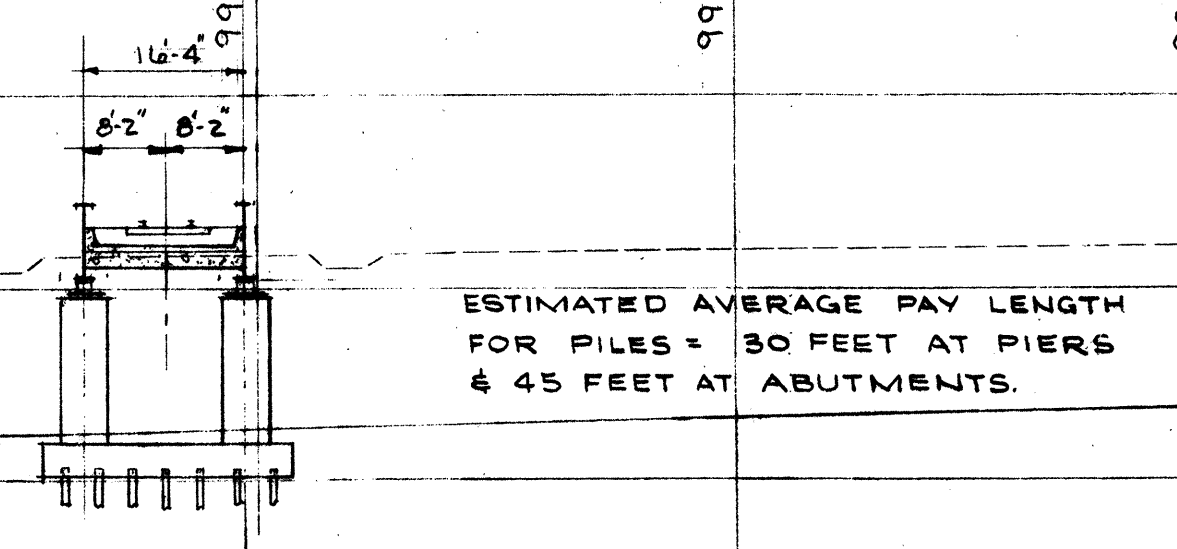
SKIEW: 14° 15' 40" LEFT FORWARD

ROAD BED: TIES ON BALLAST OVER CONCRETE SLAB

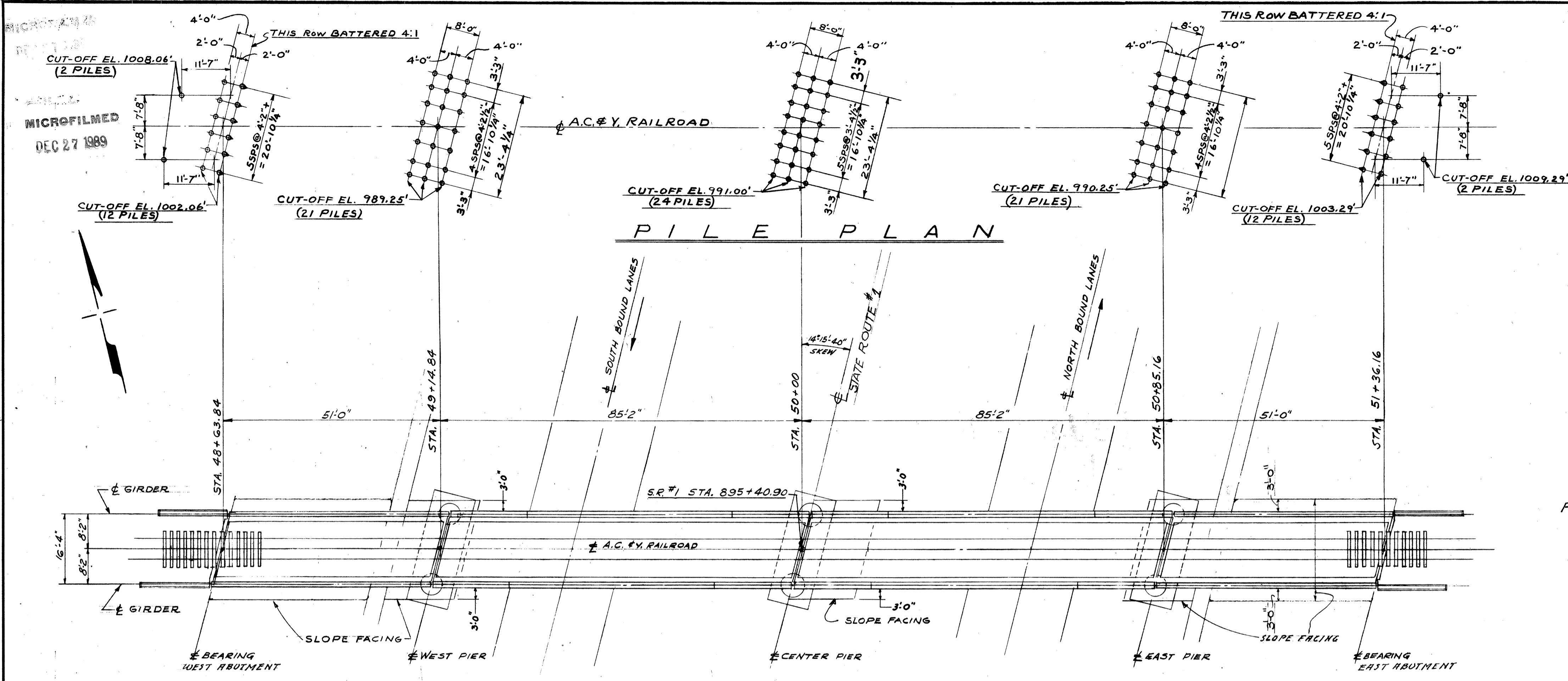
ALIGNMENT: 4 SPANS STRAIGHT

SUPERELEVATION: NONE

FOUNDATION SOUNDINGS: FOUNDATION DESIGN & FOUNDATION QUANTITIES ARE BASED ON A STUDY OF SOIL SAMPLING SOUNDINGS MADE AT THE SITE. THIS SOUNDING INFORMATION MAY BE INSPECTED IN THE INTERSTATE PROJECTS OFFICE IN COLUMBUS OR IN THE DIVISION OFFICE, BUT THE STATE DOES NOT GUARANTEE THE ACCURACY THEREOF.



STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES						
BEISWENGER & HOCH, Consulting Engineers AKRON, OHIO						
SITE PLAN BRIDGE No. MED. -1-1529 UNDER A. C. & Y. RAILROAD MEDINA COUNTY SCALE: 1" = 20'-0" STA. 895 + 40.90						
DESIGNED CHILDS	DRAWN TOROSIAN	TRACED	CHECKED AAH	REVIEWED	DATE	REVISED 4-28



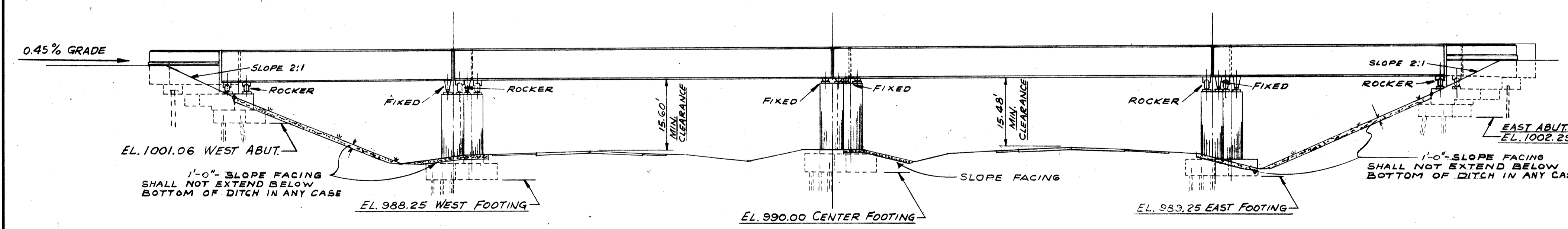
DESIGN SPECIFICATIONS: THIS STRUCTURE SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR STEEL RAILWAY BRIDGES 1956" OF THE AMERICAN RAILWAY ENGINEERING ASSOCIATION. REFERENCE SHALL BE MADE TO SUPPLEMENTAL SPECIFICATIONS S-107 REVISED FEB. 16, 1955 BY STATE OF OHIO, DEPARTMENT OF HIGHWAYS. & S-103 REVISED FEB. 16, 1955 & TO CONSTRUCTION & MATERIAL SPECIFICATIONS- STATE OF OHIO DEPARTMENT OF HIGHWAYS, DATED JAN. 1, 1955. BRIDGE IS DESIGNED FOR COOPER E-60 LOADING.

UNLESS OTHERWISE SPECIFIED THE FOLLOWING LISTED MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE RESPECTIVE CURRENT A.S.T.M. SPECIFICATIONS:-
MATERIAL A.S.T.M. DESIGNATION

NICKEL STEEL ROCKERS AND ASSEMBLY A-8
REINFORCING BARS M-7.1 OF CONSTRUCTION & MATERIAL SPECIFICATIONS, 1-1-55.
WELDING SHALL BE IN ACCORDANCE WITH SECTION 5-7.22 OF CONSTRUCTION & MATERIAL SPECIFICATIONS JAN. 1, 1955.
SLOPE FACING, ONE FOOT DEEP EXTENDING FROM FACE OF ABUTMENT TO TOE OF SLOPE, SHALL BE PROVIDED AT EACH ABUTMENT FOR FULL WIDTH OF BRIDGE PLUS THREE FEET ON EACH SIDE OF BRIDGE & PARALLEL WITH & OF SUPERSTRUCTURE. SLOPE FACING SHALL BE PLACED NEAR THE PIERS, IN THE POSITIONS SHOWN ON THE PLANS.
PILES:- ALL PILES SHALL HAVE A TOP DIAMETER OF 12" MINIMUM. THEY SHALL BE CAST-IN-PLACE REINFORCED CONCRETE PILE.
MINIMUM BEARING CAPACITY 40 TONS PER PILE.
6 FREIGHT TRAINS PER DAY @ 40 MILES PER HOUR.

PLAN

ESTIMATED QUANTITIES						
ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT	PIERS GEN.
E-2	267	CU.YD.	UNCLASSIFIED EXCAVATION		111	156
S-1	211	CU.YD.	CLASS "C" CONCRETE SUPERSTRUCTURE	211		
S-1	86	CU.YD.	CLASS "E" CONCRETE ABUTMENTS		86	
S-1	73	CU.YD.	CLASS "C" CONCRETE PIERS ABOVE FOOTINGS			73
S-1	161	CU.YD.	CLASS "E" CONCRETE PIERS & ABUT. FOOTINGS		41	120
S-103	540	SQ.YD.	TYPE "d" 5 PLY MEMBRANE WATERPROOFING INCLUDING CONCRETE PROTECTION & WIRE MESH	540		
S-4	52,812	LBS.	REINFORCING STEEL	21,119	26,680	5,013
S-107	514,800	LBS.	STRUCTURAL STEEL	514,800		
S-8	514,800	LBS.	FIELD PAINTING OF STRUCTURAL STEEL	514,800		
S-16	LUMP	SUM	FIRST TEST PILE			LUMP
S-18	3,240	LN.FT.	12" # CAST IN PLACE REINFORCED CONCRETE PILE	1260	1980	
S-29	103	CU.YD.	SLOPE FACING (TYPE S-29.05)		103	
S-29	20	CU.YD.	POROUS BACKFILL		20	
S-29	8	EACH	TRACK DRAINS, COMPLETE, AS PER PLAN		8	



ELEVATION

- RAILROAD FORCE ACCOUNT WORK
- 1-PRELIMINARY ENGINEERING.
 - 2-CONSTRUCTION ENGINEERING.
 - 3-TEMPORARY TRACK INSTALLATION & REMOVAL.
 - 4-PERMANENT TRACK REMOVAL & RE-INSTALLATION.
 - 5-COMMUNICATION & SIGNAL LINE CHANGES.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

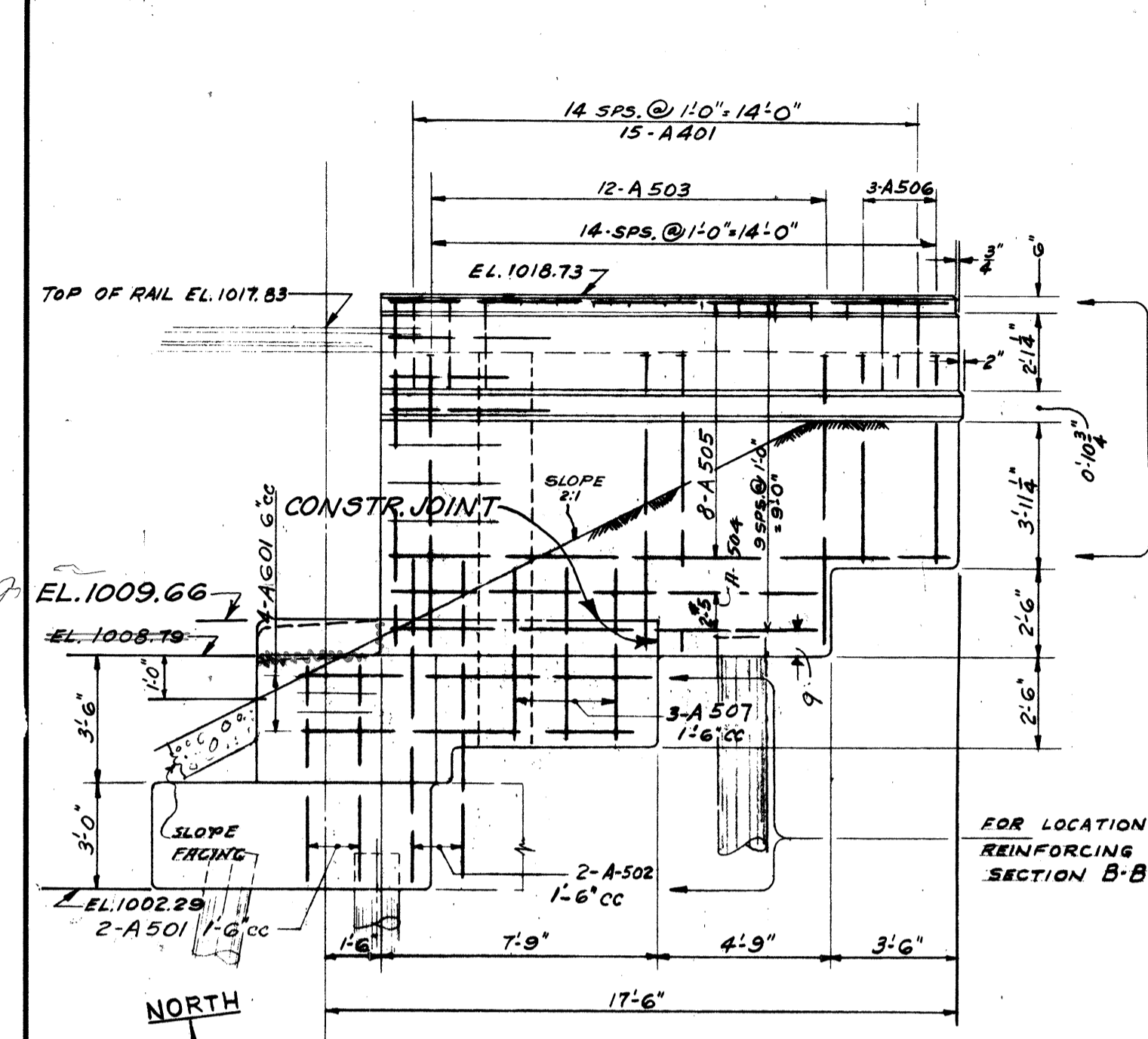
GENERAL PLAN & ELEVATION
BRIDGE No MED. -1- 1529
UNDER A. C. & Y. RAILROAD
MEDINA COUNTY
STA. 895 + 40.90

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AAH	J.R.J.		AAH			4-28 7-14-58

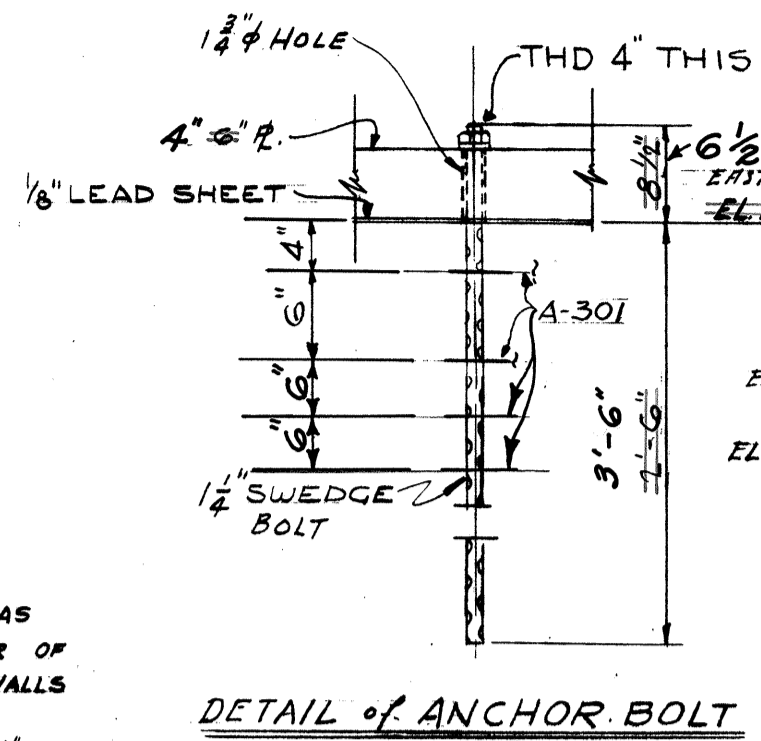
MICROFILMED
DEC 27 1989

FED. RD.	STATE	PROJECT	269 302
2	OHIO	I-1105 (26)	

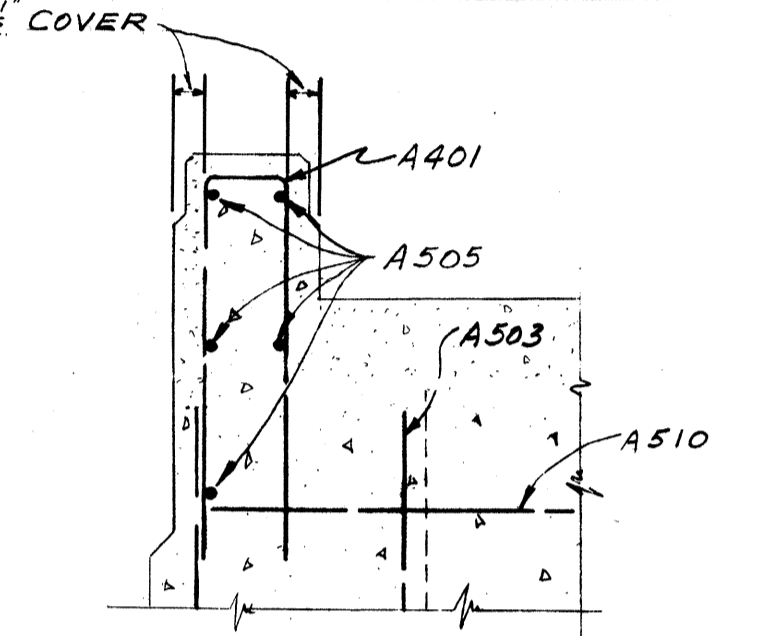
MED-1-13.63



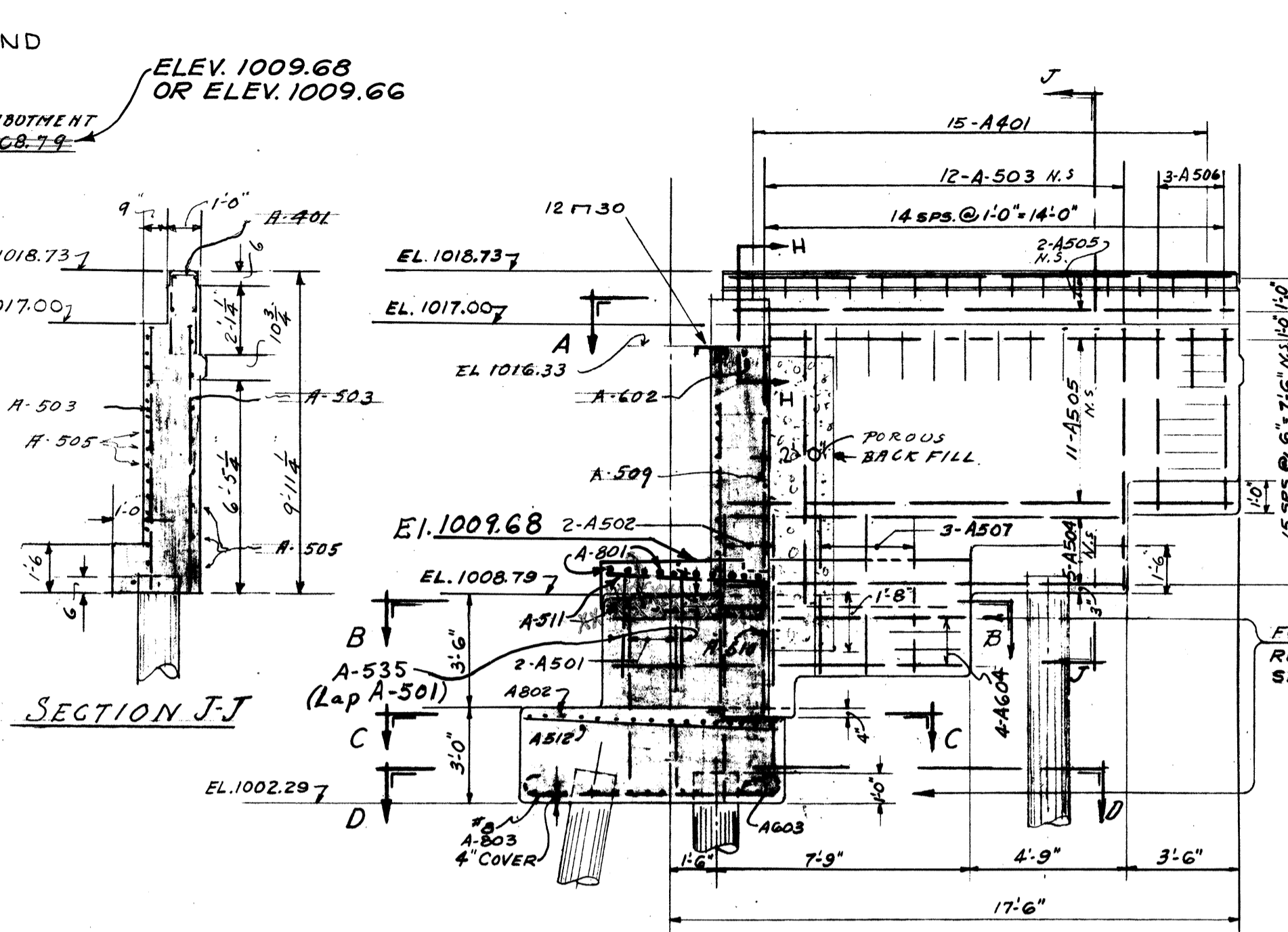
SOUTH ELEVATION OF EAST ABUTMENT



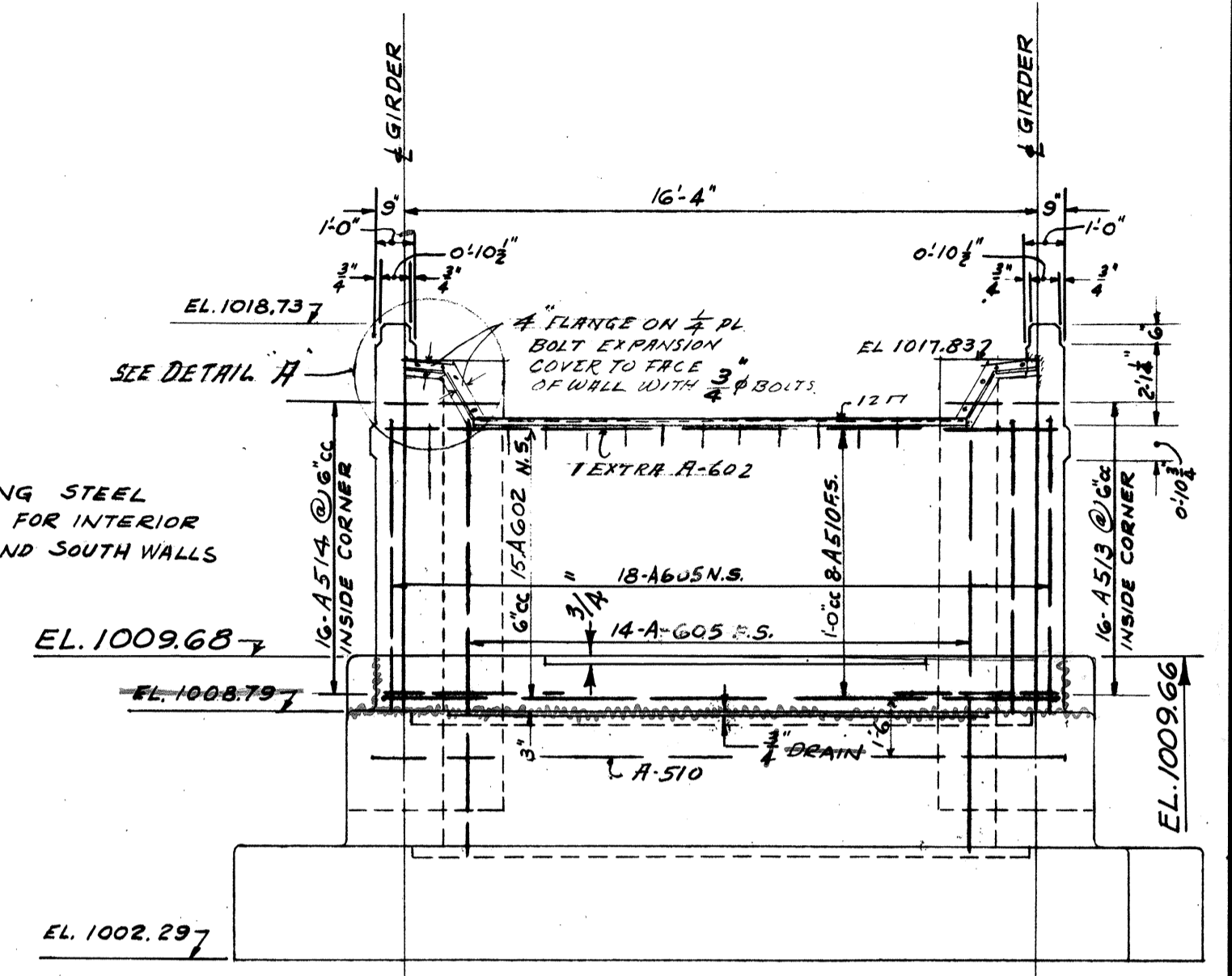
DETAIL of ANCHOR BOLT



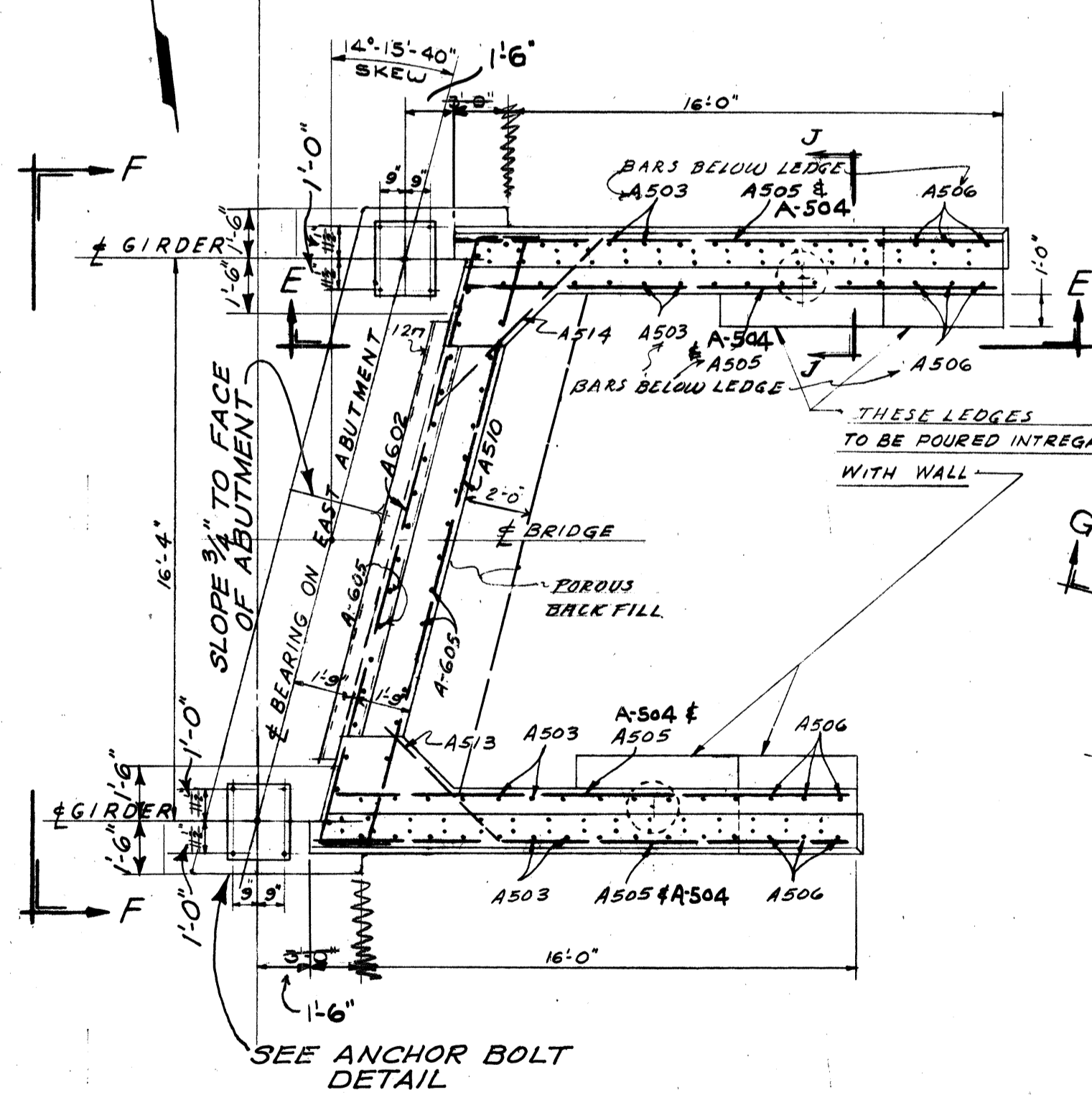
SECTION H-H TYPICAL



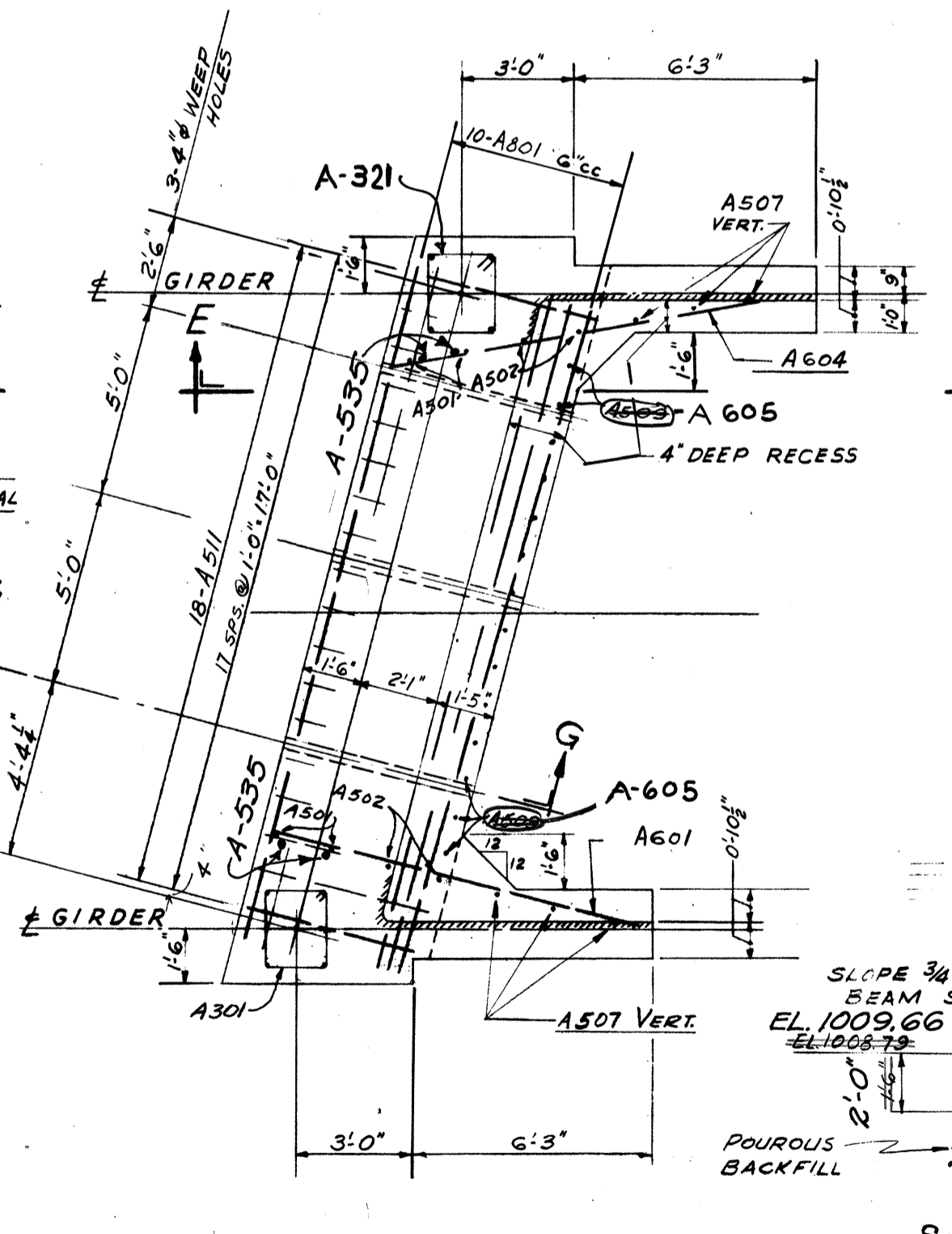
SECTION E-E



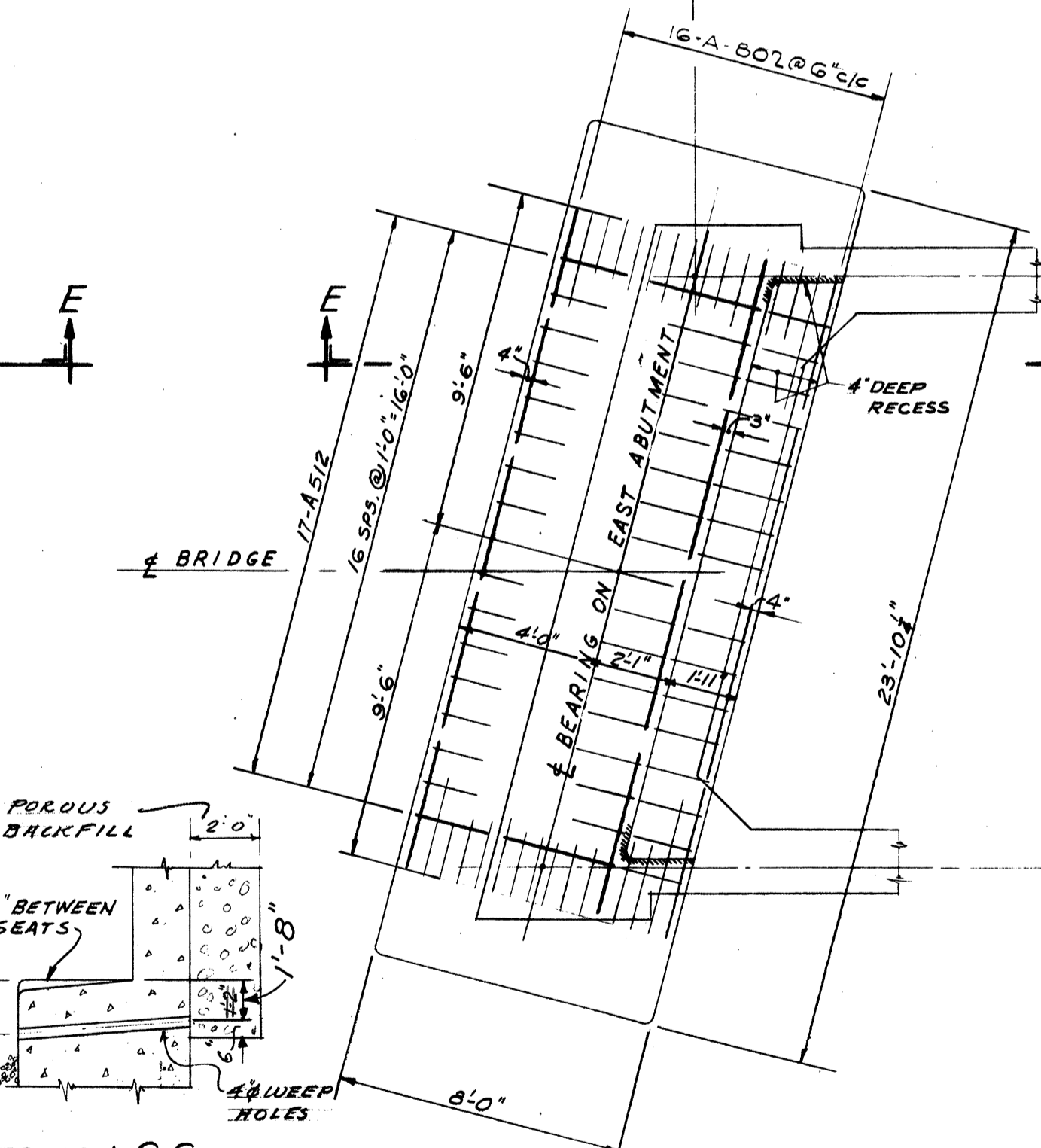
WEST ELEVATION F-F OF EAST ABUTMENT



SECTION A-A

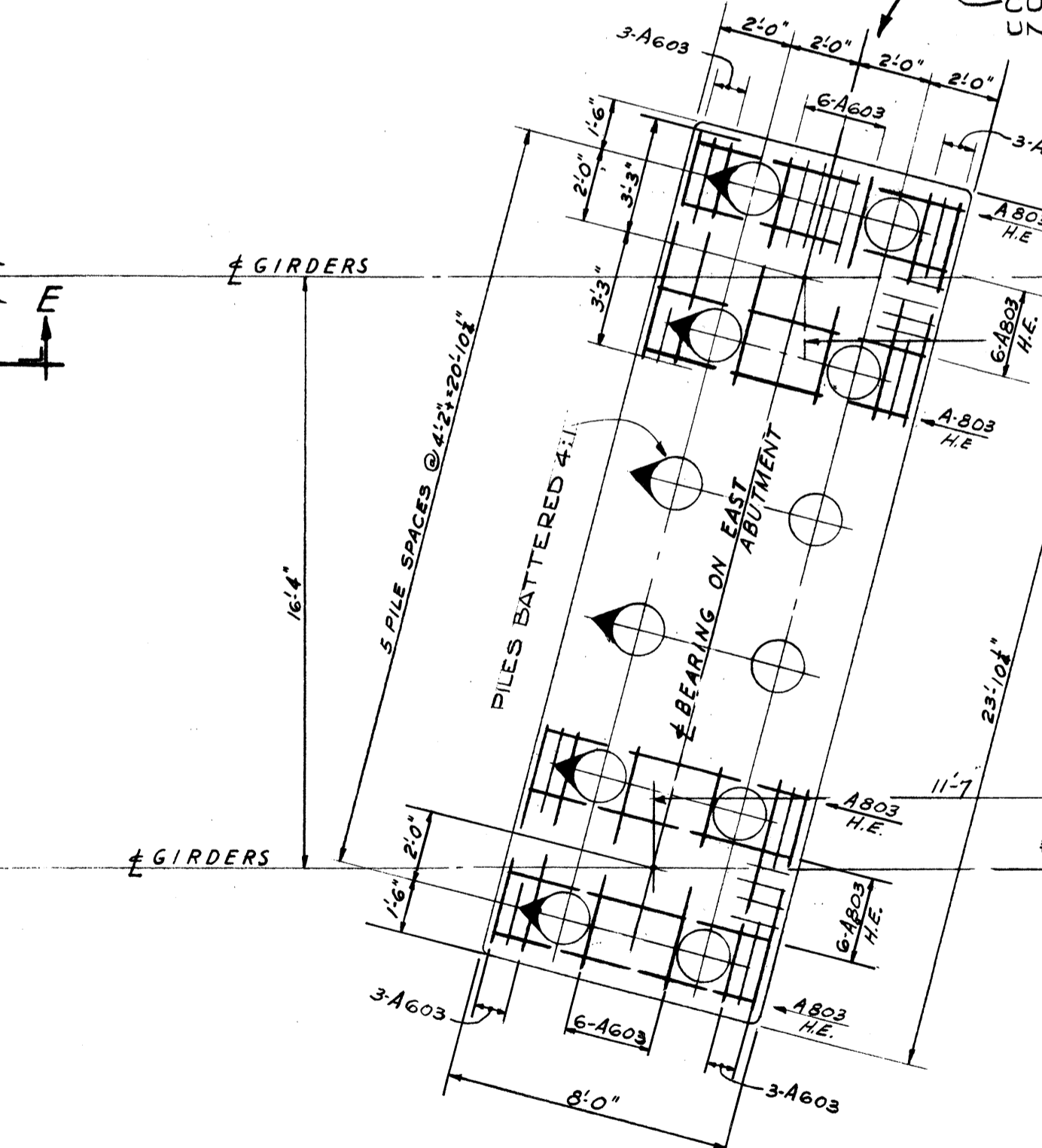


SECTION B-B



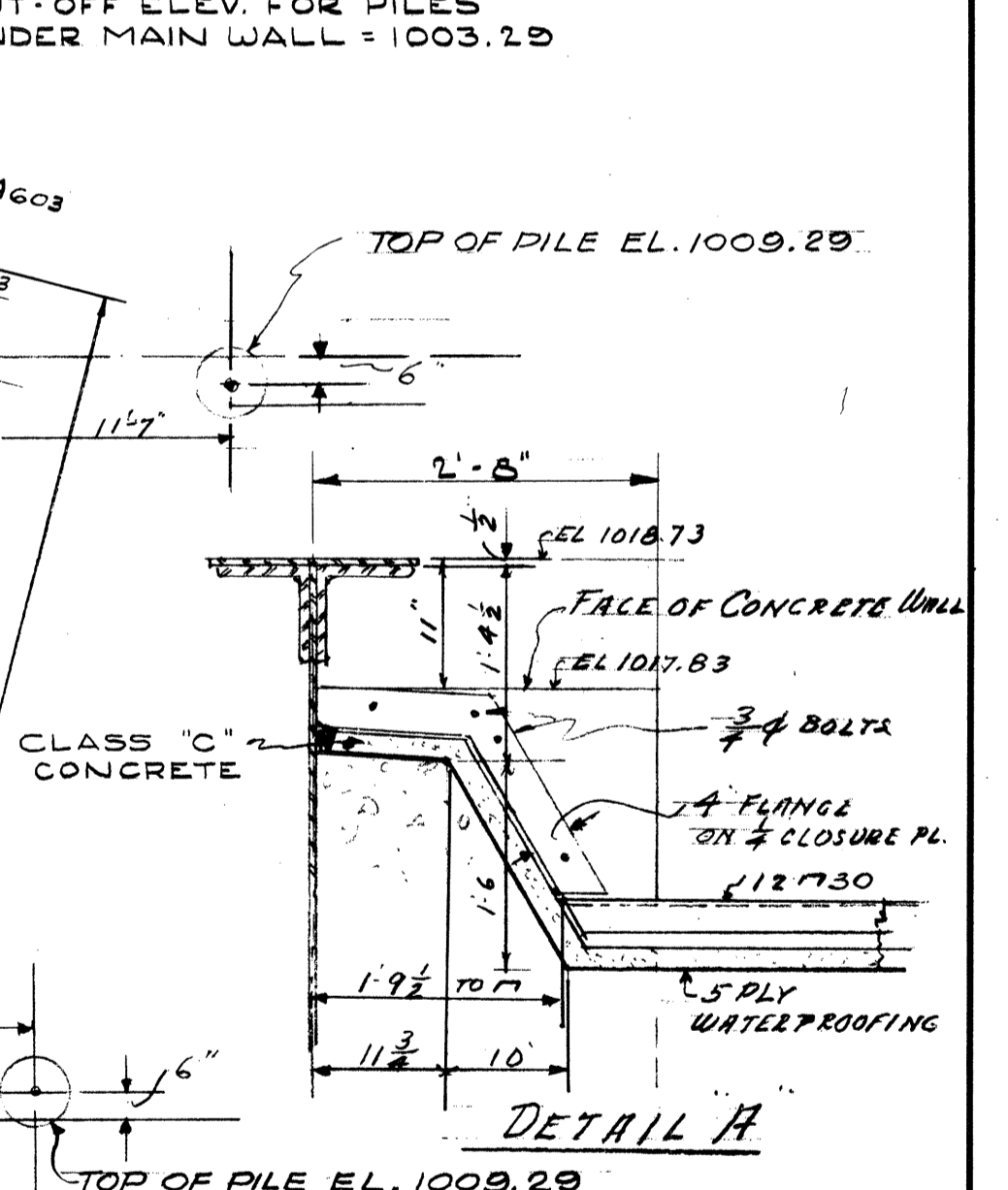
SECTION C-C

TOP OF MAT REINFORCEMENT



SECTION D-D

BOTTOM OF MAT REINFORCEMENT



DETAIL A

NOTE: REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2" UNLESS OTHERWISE NOTED.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

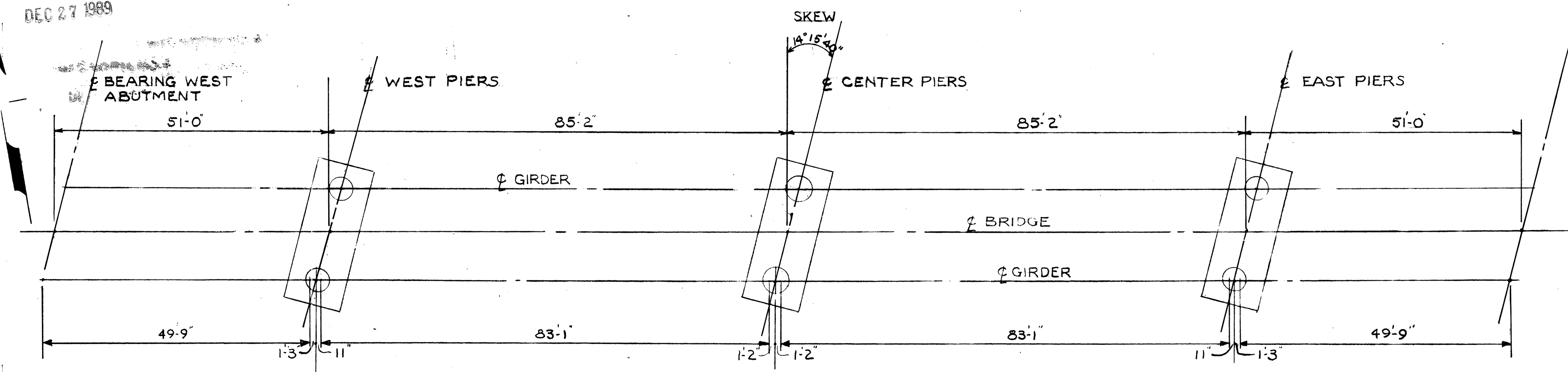
BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

EAST ABUTMENT
BRIDGE No. MED-1-1529
UNDER A. C. & Y. RAILROAD
MEDINA COUNTY
STA. 895 + 40.90

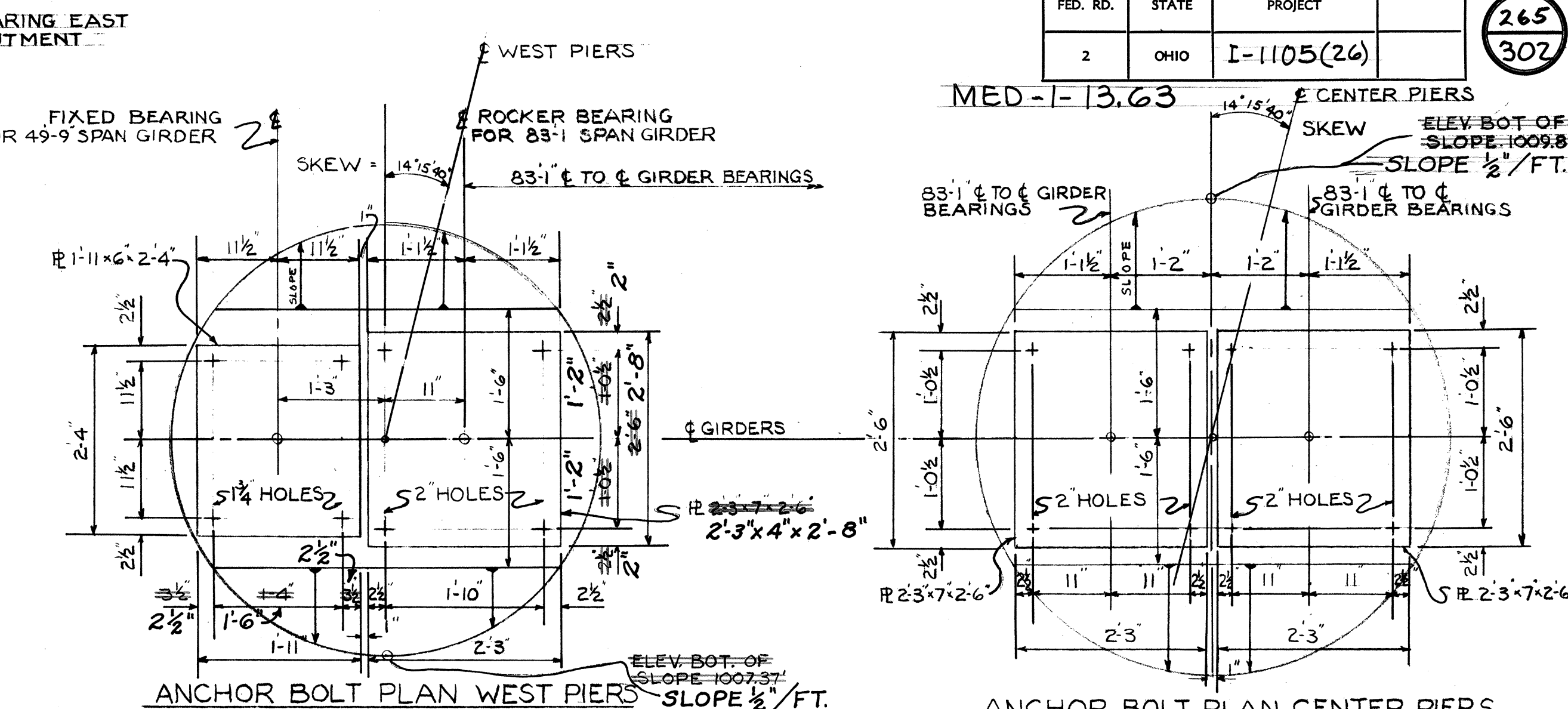
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
A.H.H.	J.R.J.		A.H.H.			4-28 7-14-58

MICROFILMED
DEC 27 1989

FED. RD.	STATE	PROJECT	265 302
2	OHIO	I-1105(26)	

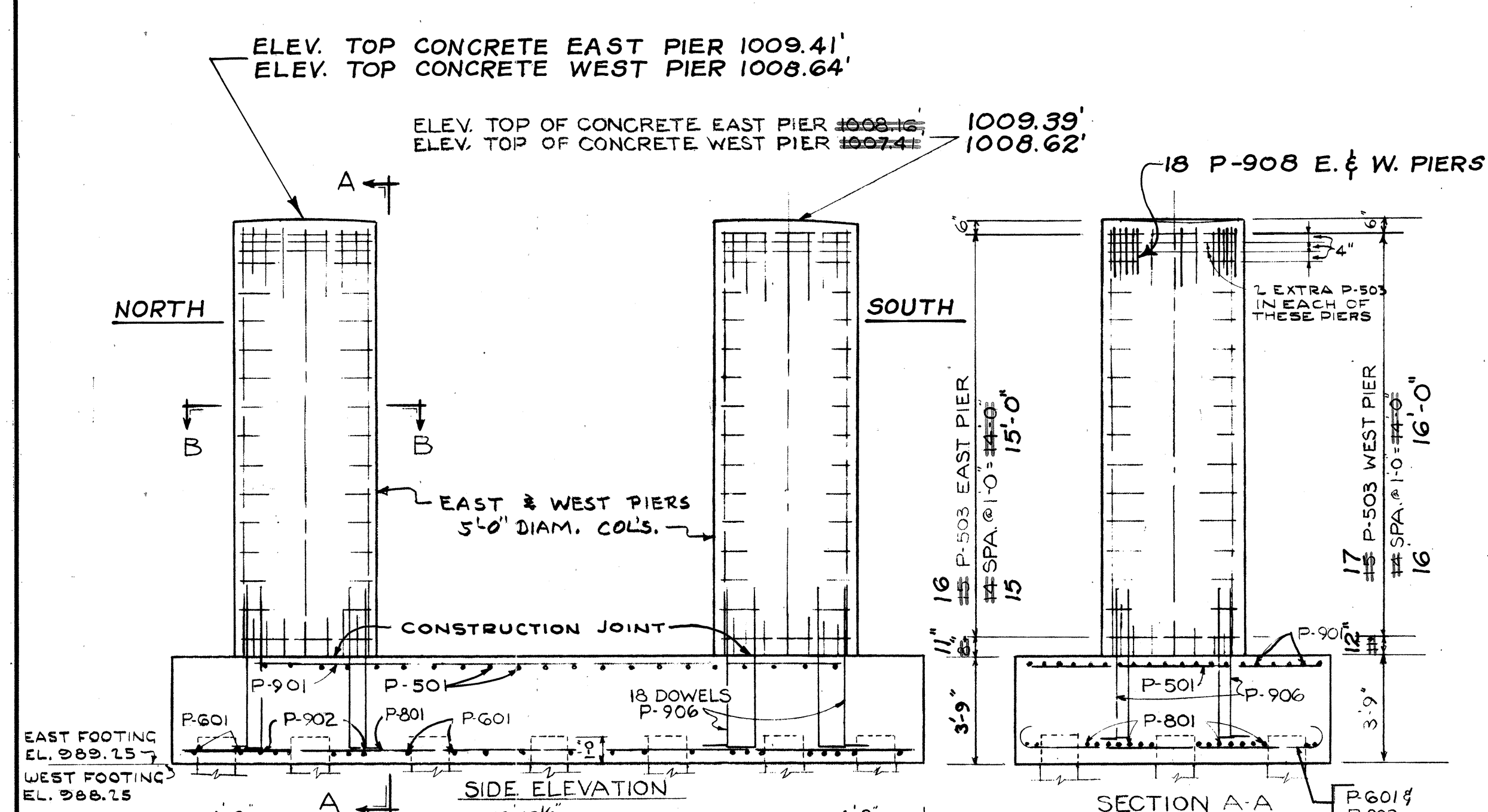


PLAN OF PIERS & FOOTINGS



ANCHOR BOLT PLAN WEST PIERS

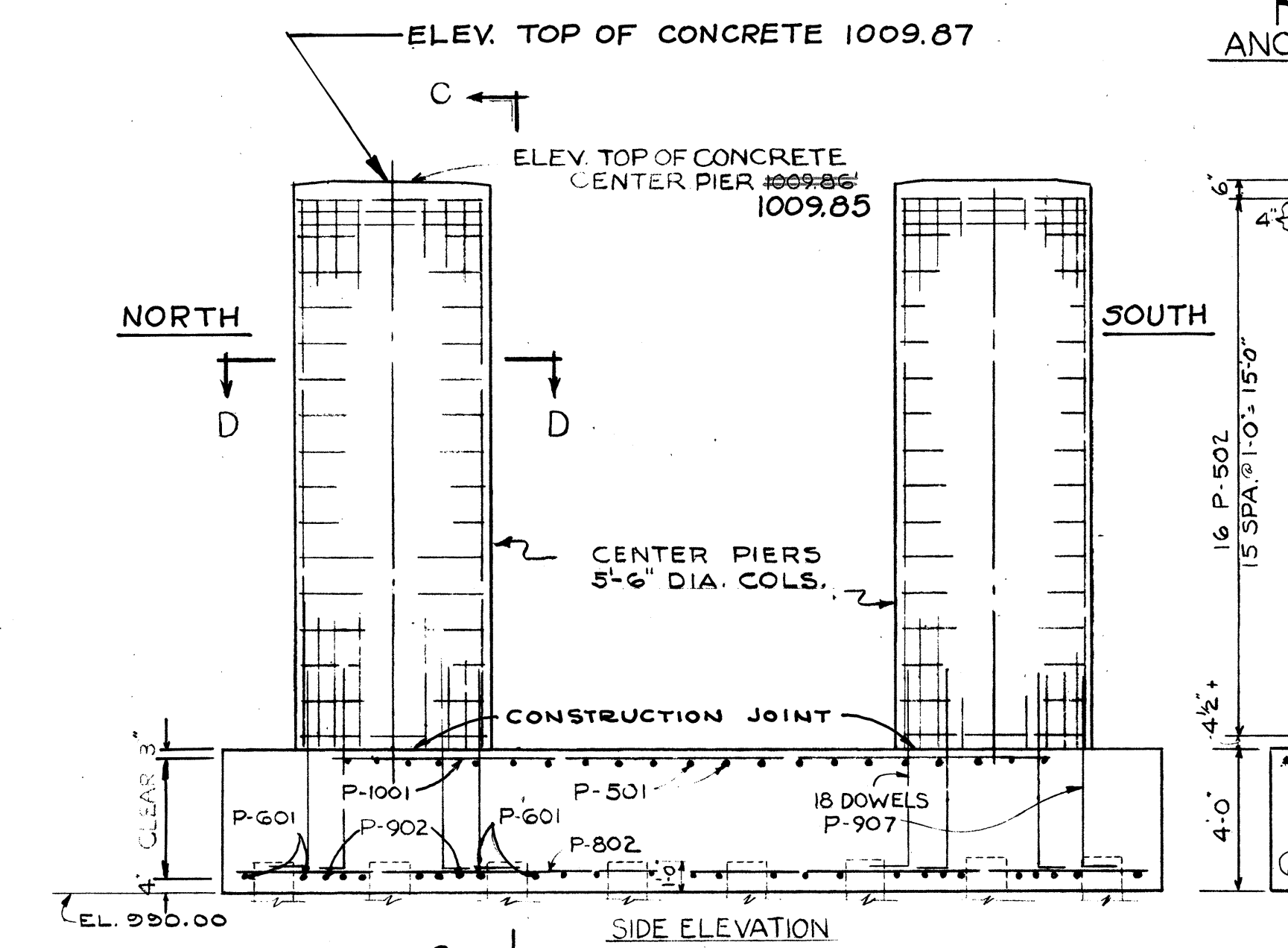
ANCHOR BOLT PLAN CENTER PIERS



ELEV. TOP CONCRETE EAST PIER 1009.41'
ELEV. TOP CONCRETE WEST PIER 1008.64'

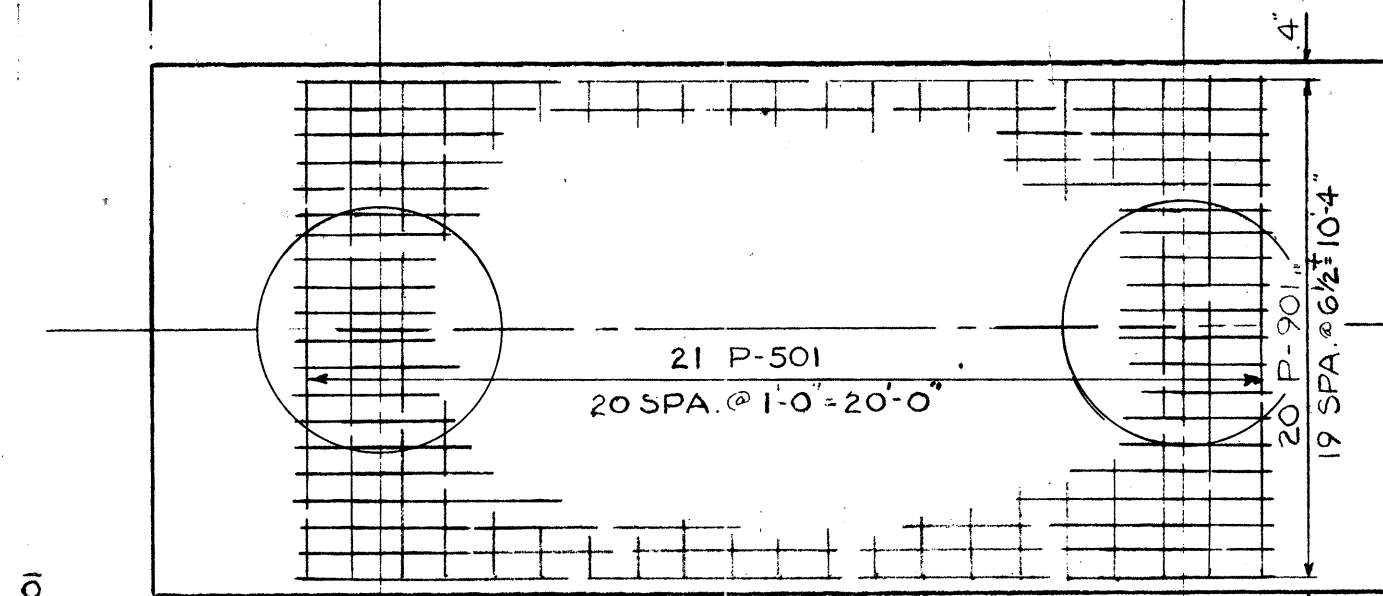
ELEV. TOP OF CONCRETE EAST PIER 1008.16'
ELEV. TOP OF CONCRETE WEST PIER 1007.44'

1009.39'
1008.62'

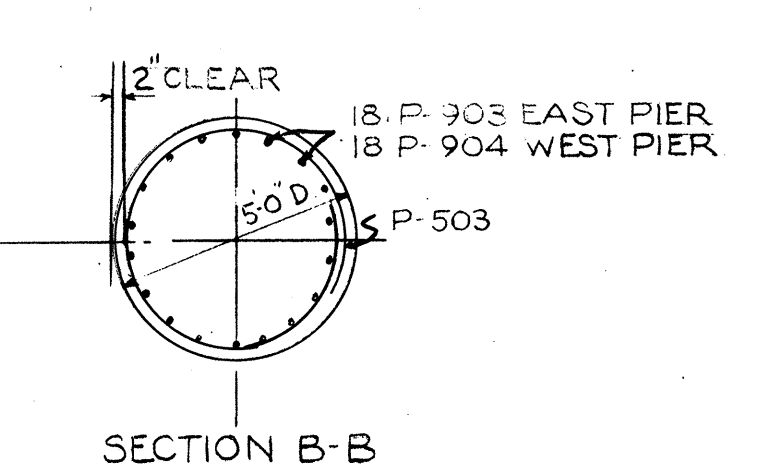


ELEV. TOP OF CONCRETE 1009.85'

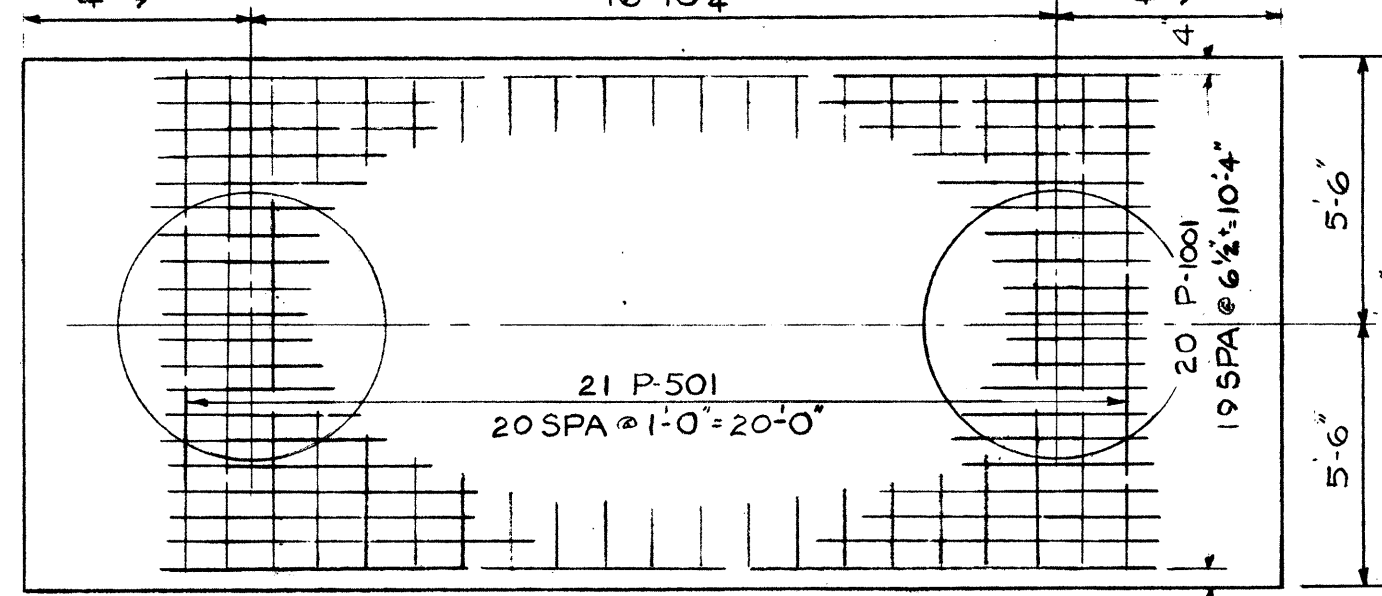
ELEV. TOP OF CONCRETE 1009.85'



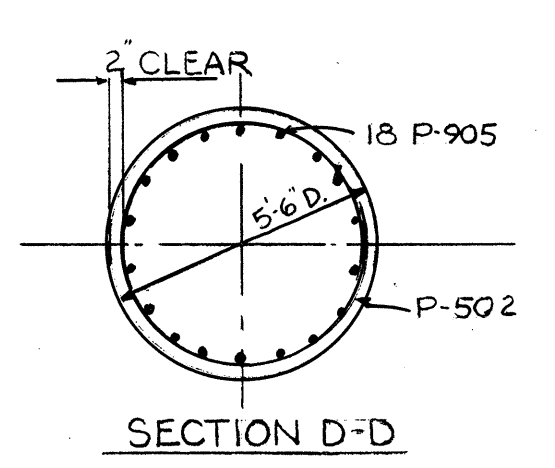
TOP STEEL OF EAST, WEST FOOTINGS



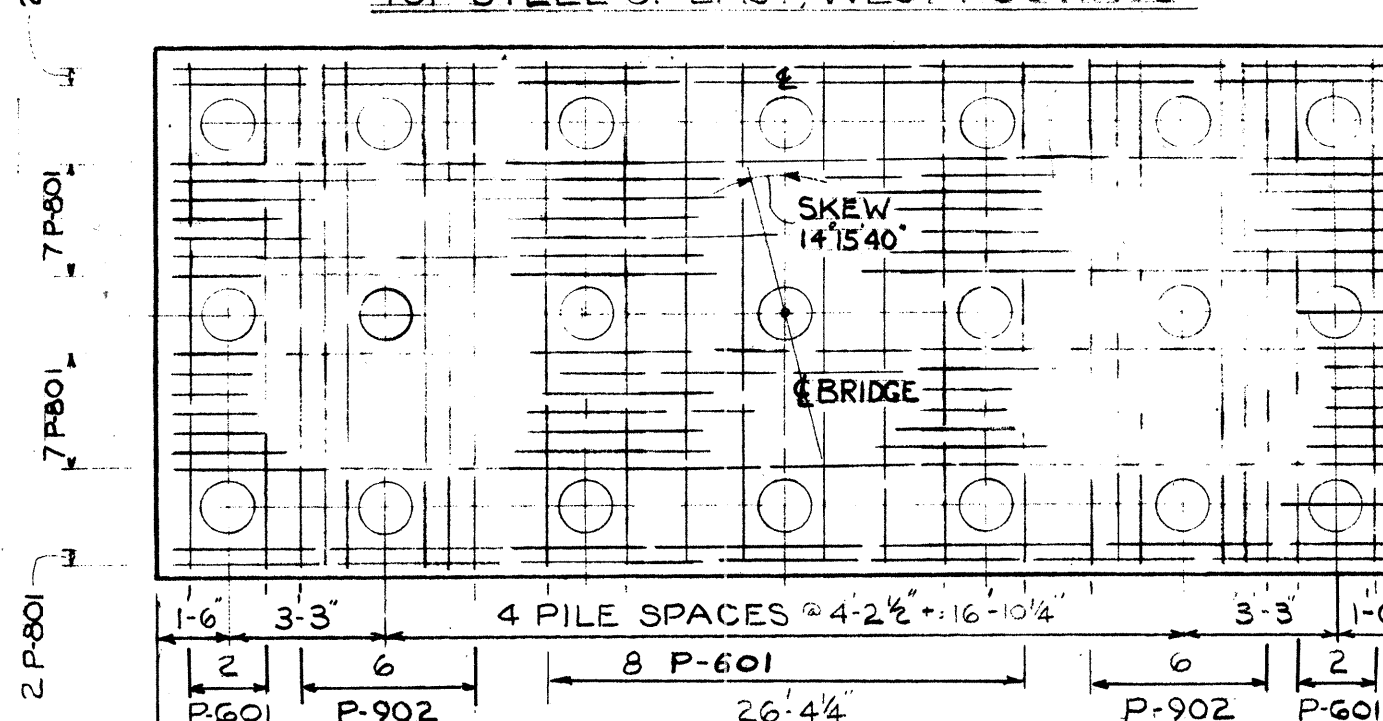
SECTION B-B



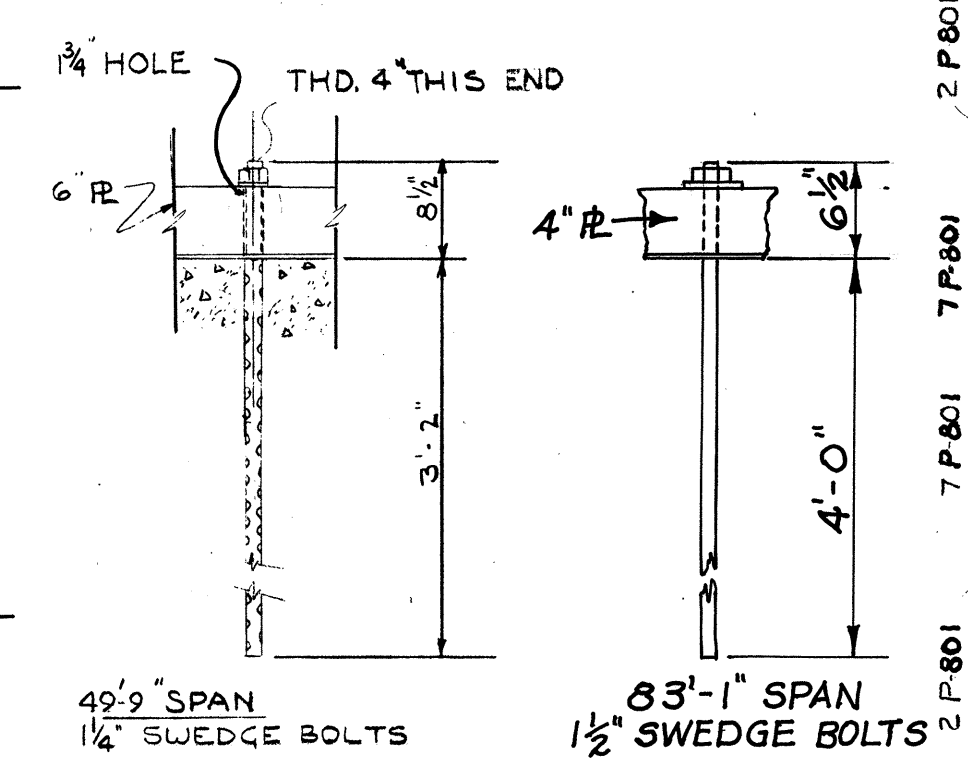
TOP STEEL OF CENTER FOOTING



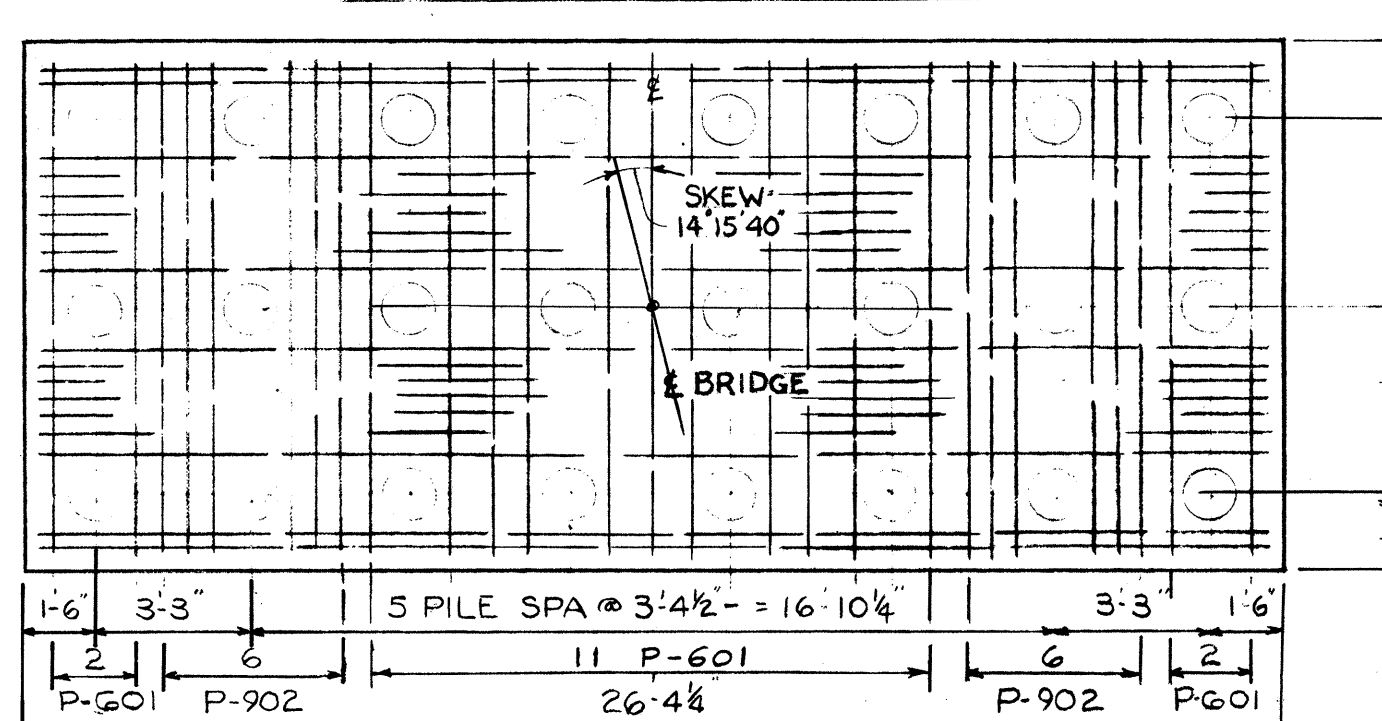
SECTION D-D



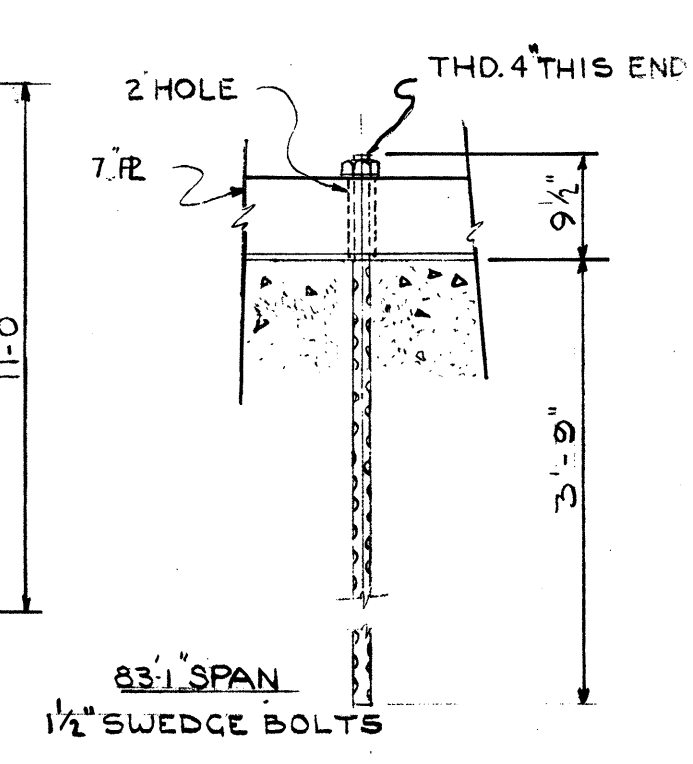
BOTTOM STEEL OF EAST, WEST FOOTINGS



ANCHOR BOLT DETAIL EAST & WEST PIERS



BOTTOM STEEL OF CENTER FOOTING

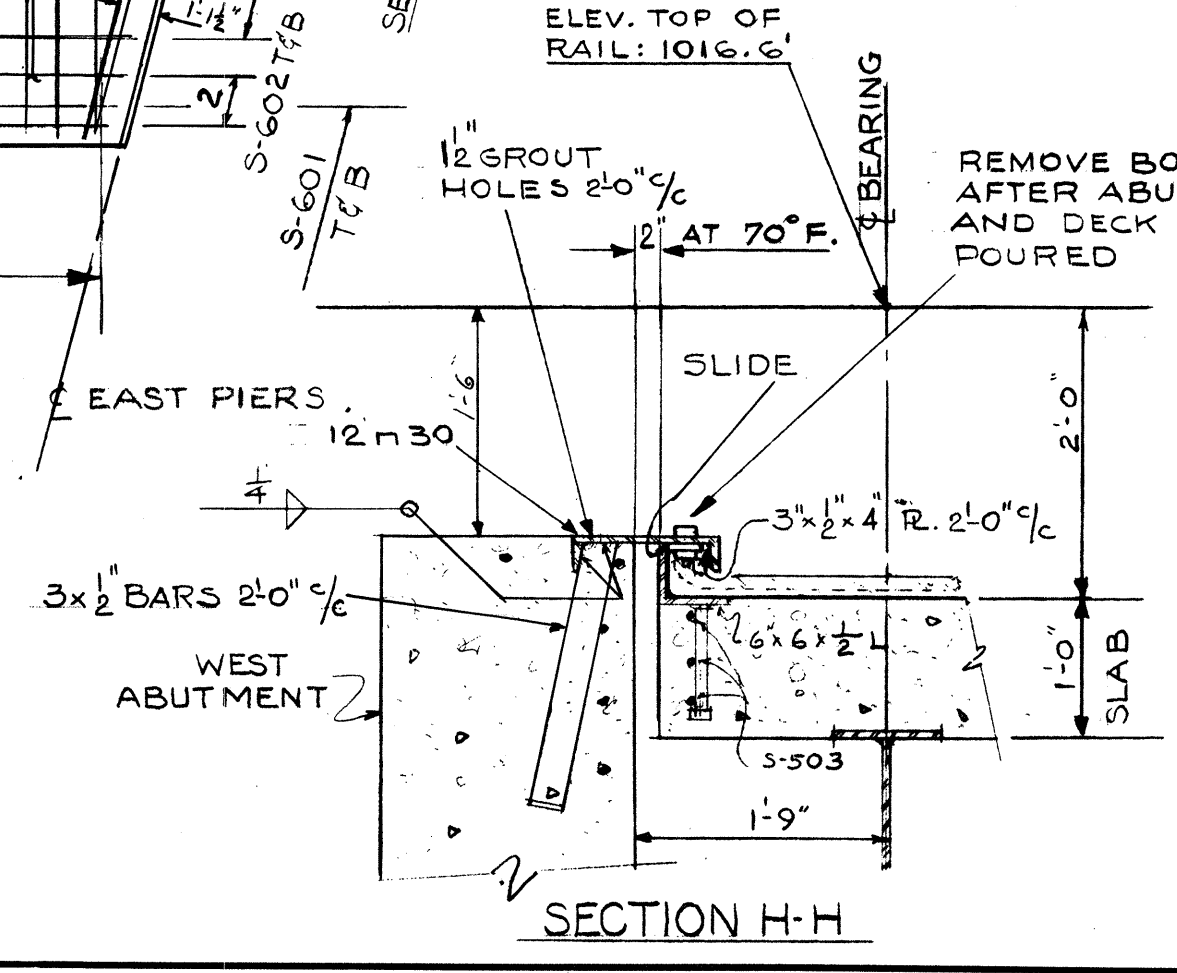
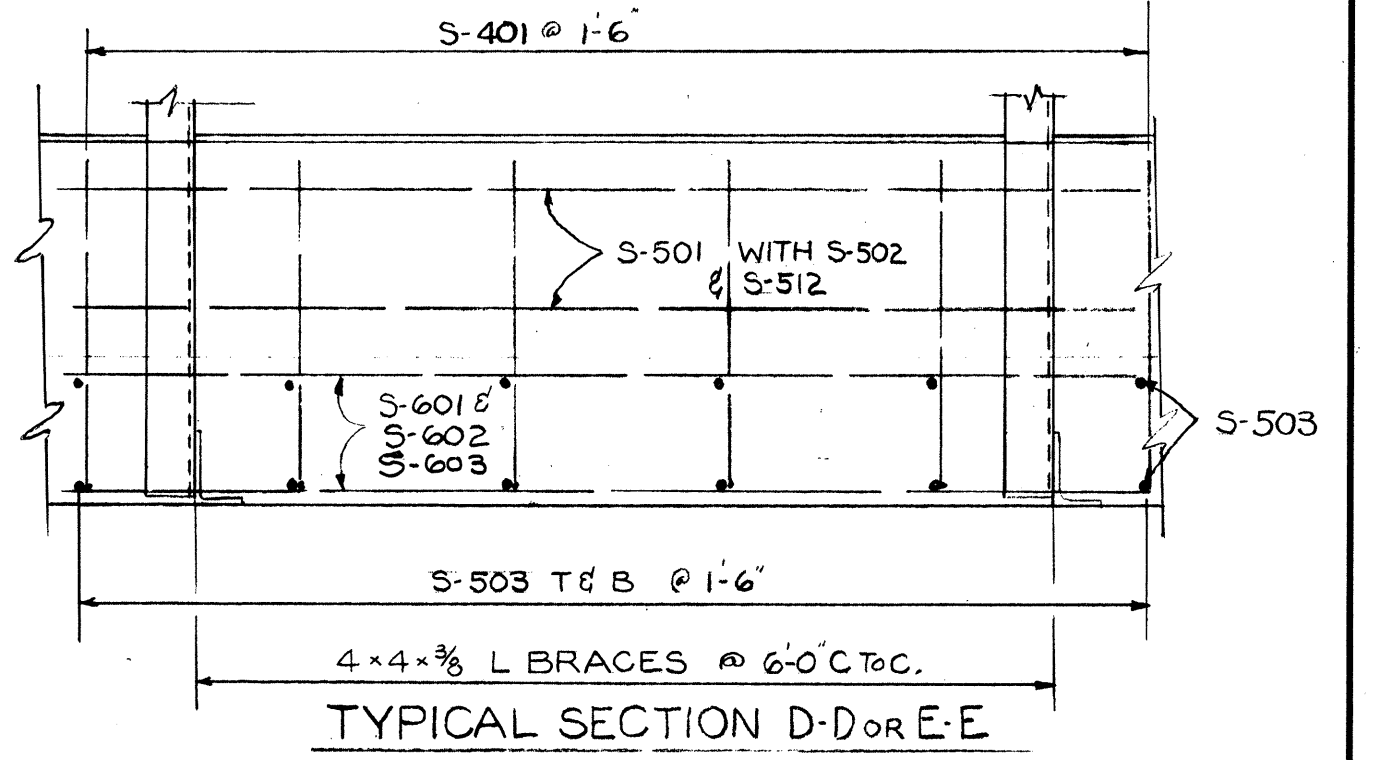
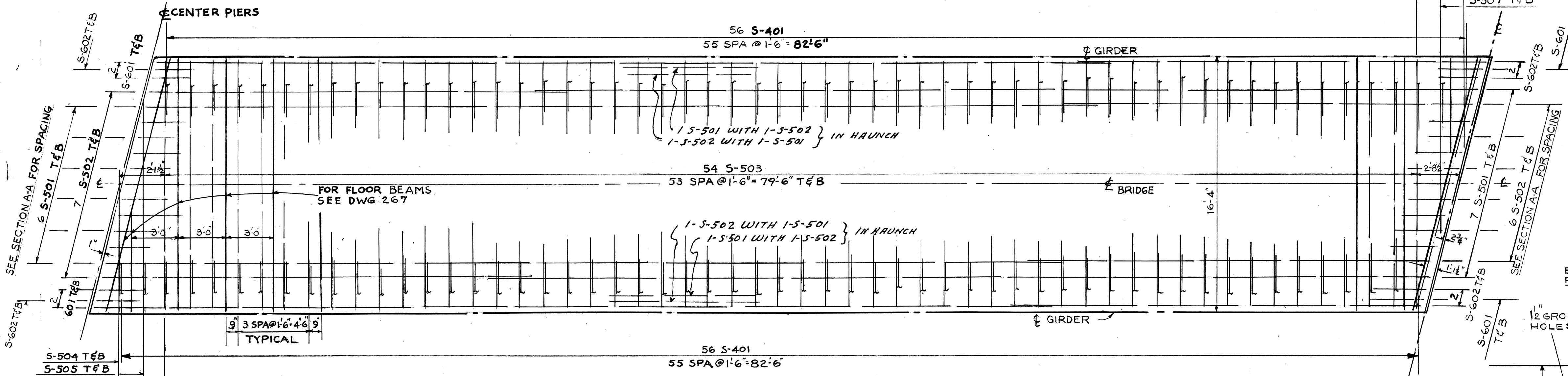
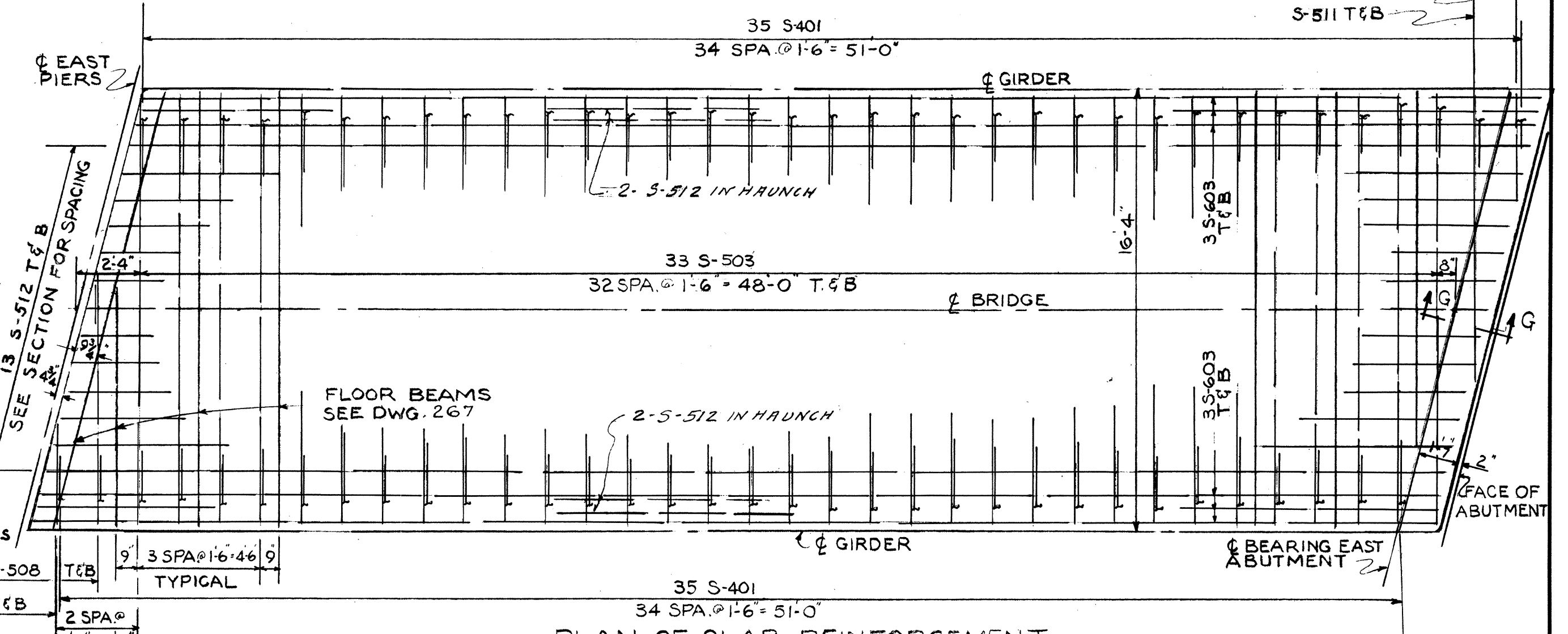
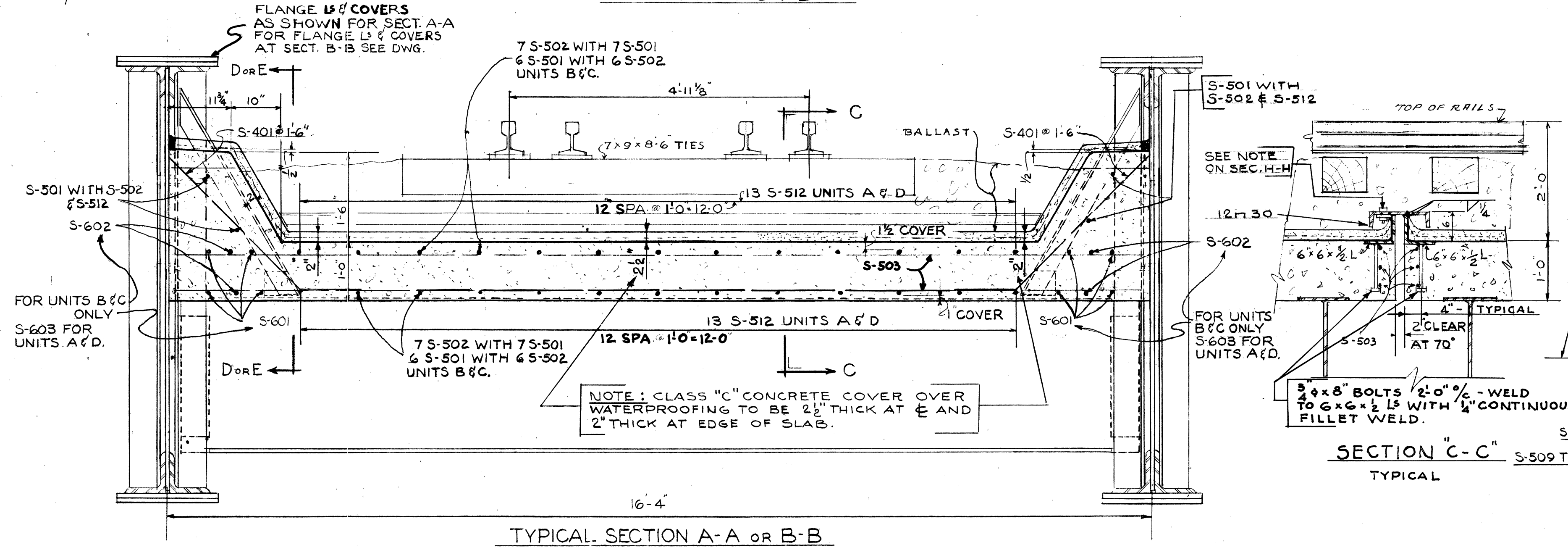
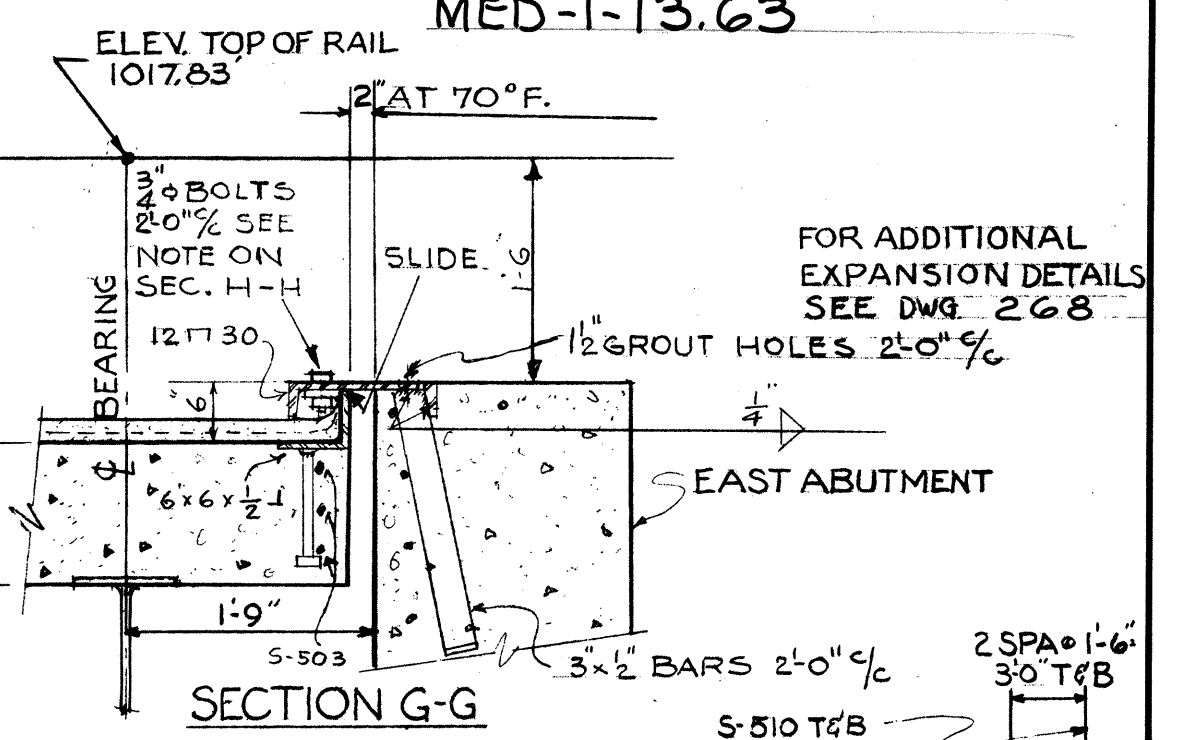
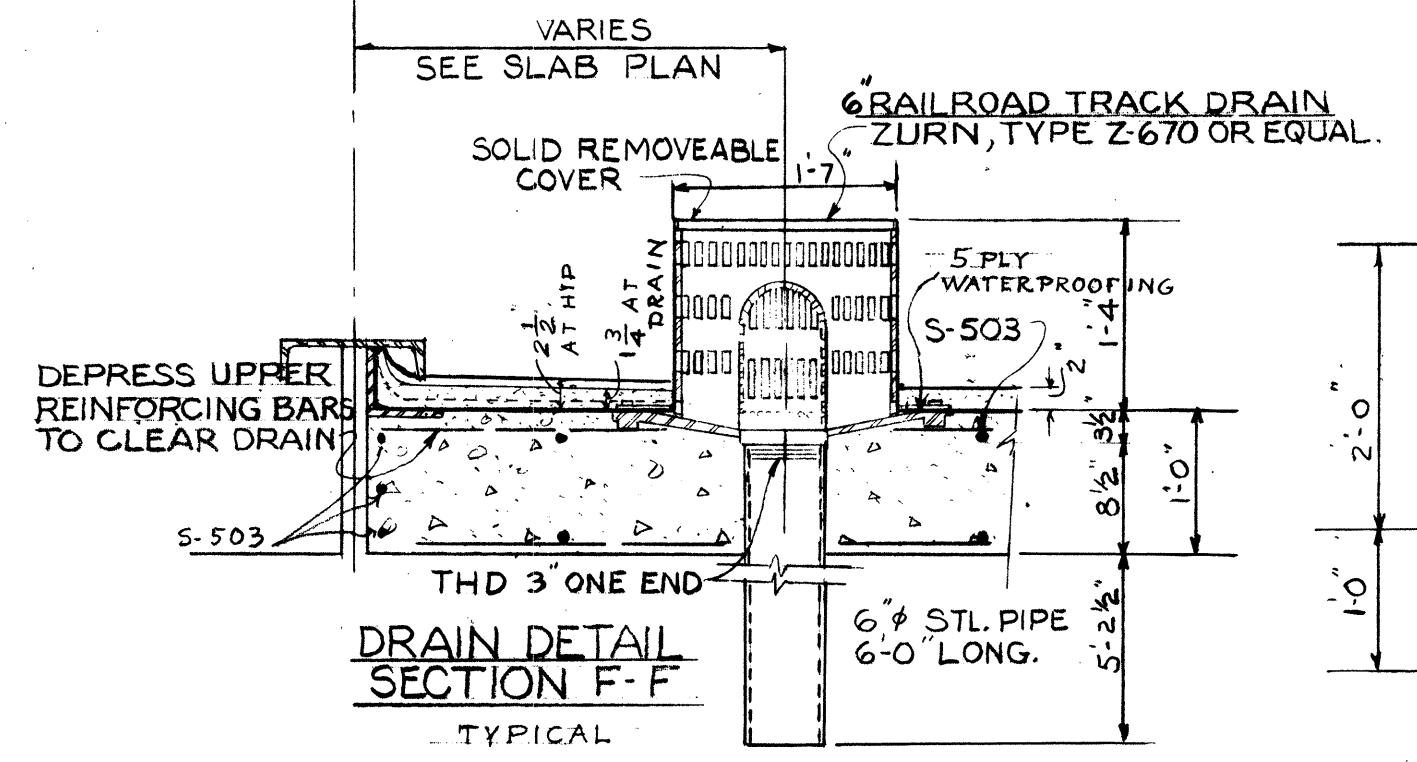
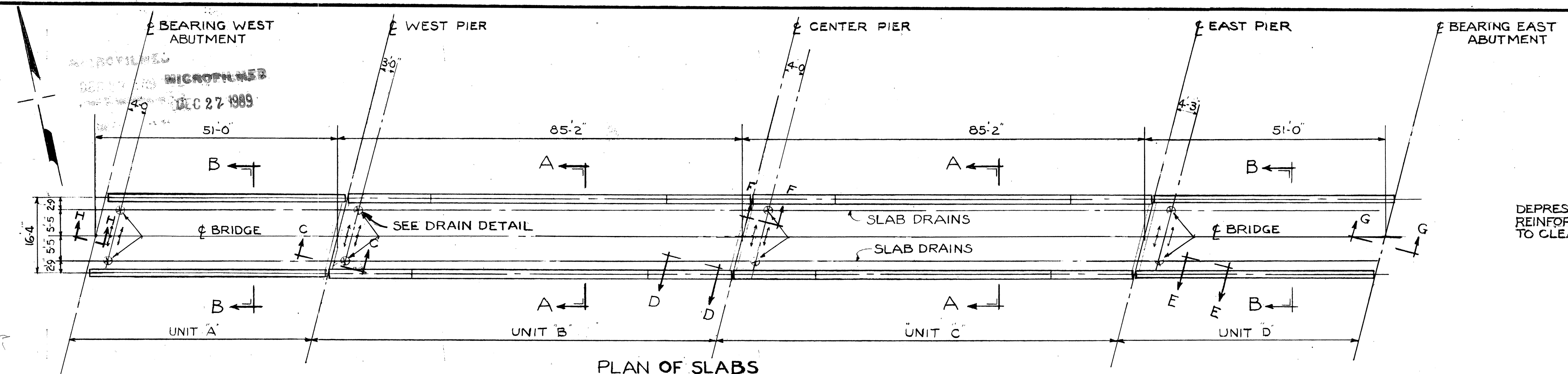


ANCHOR BOLT DETAIL CENTER PIER

NOTE:
REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2' UNLESS OTHERWISE NOTED.

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
BEISWENGER & HOCH, Consulting Engineers AKRON, OHIO					
PIERS & MATS BRIDGE NO. MED. -1- 1529 UNDER A. C. & Y. RAILROAD MEDINA COUNTY STA. 895 + 40.90					
DESIGNED A/H	DRAWN JLH	TRACED	CHECKED A/H	REVIEWED	DATE 7/4-58

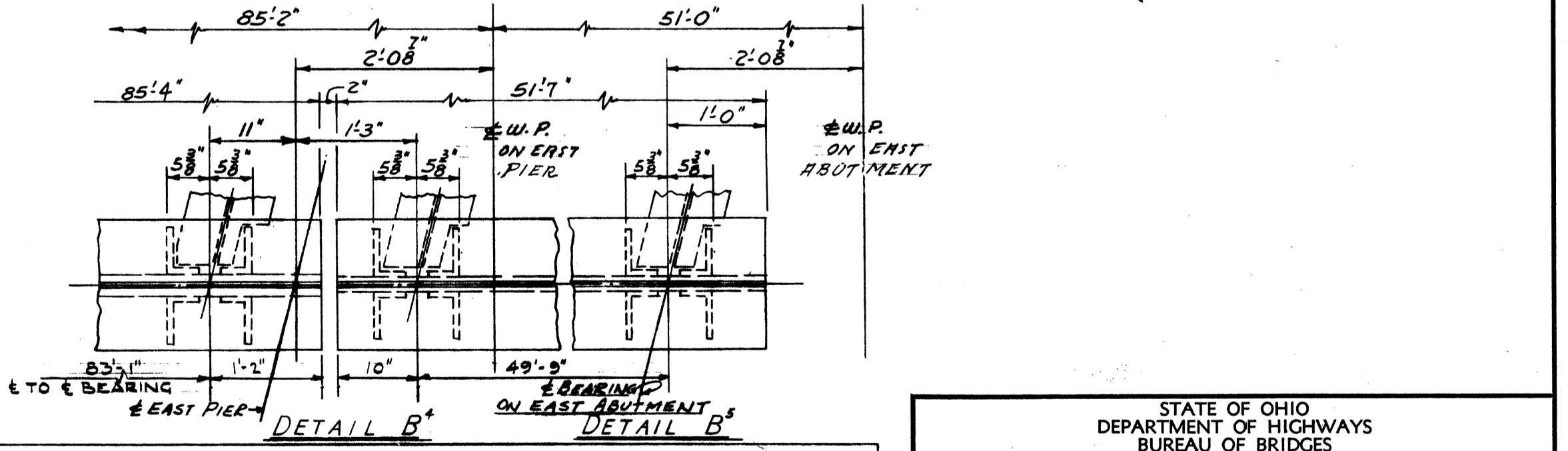
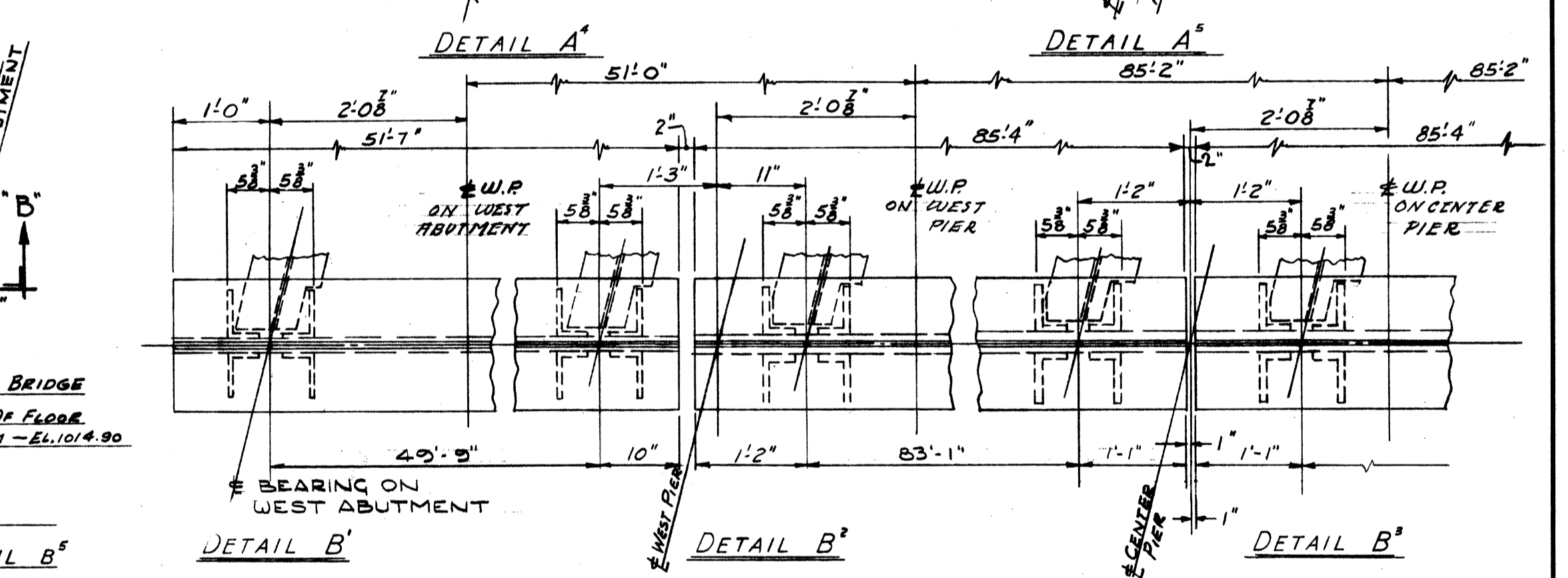
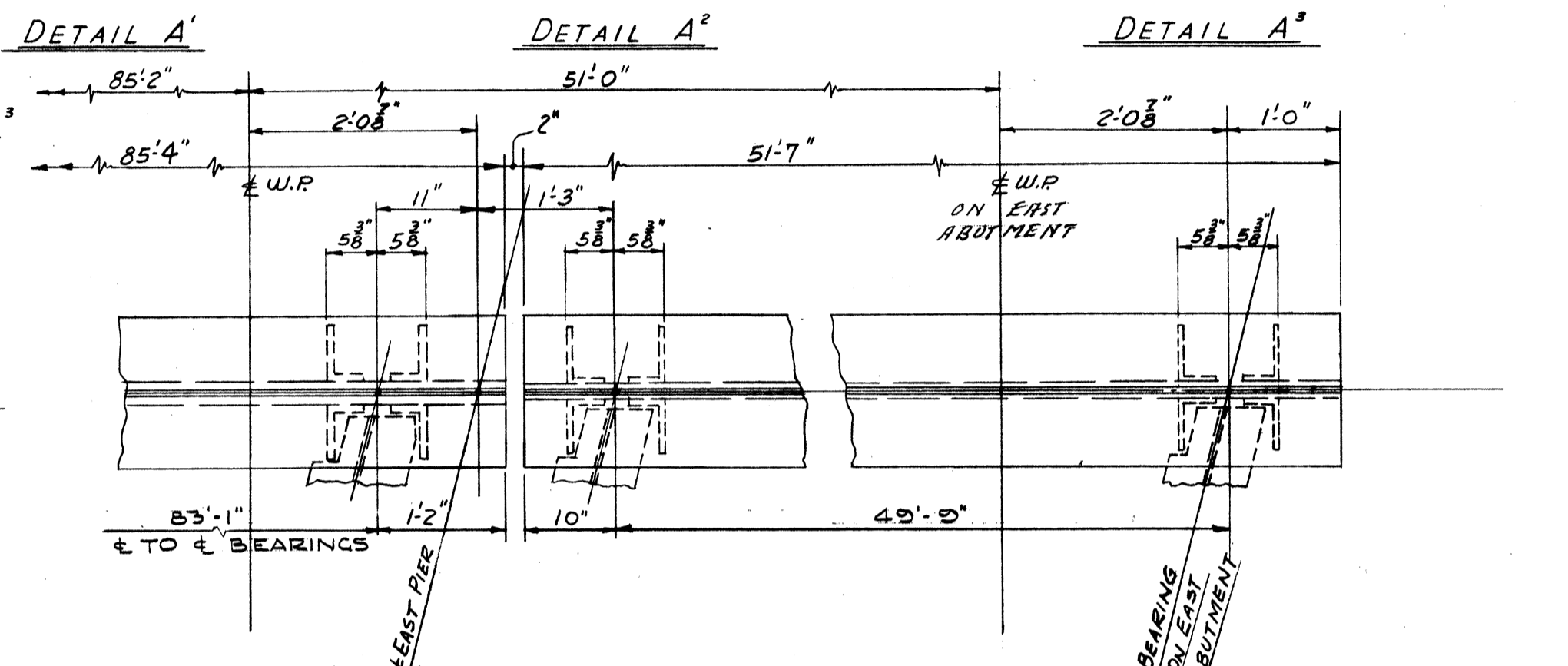
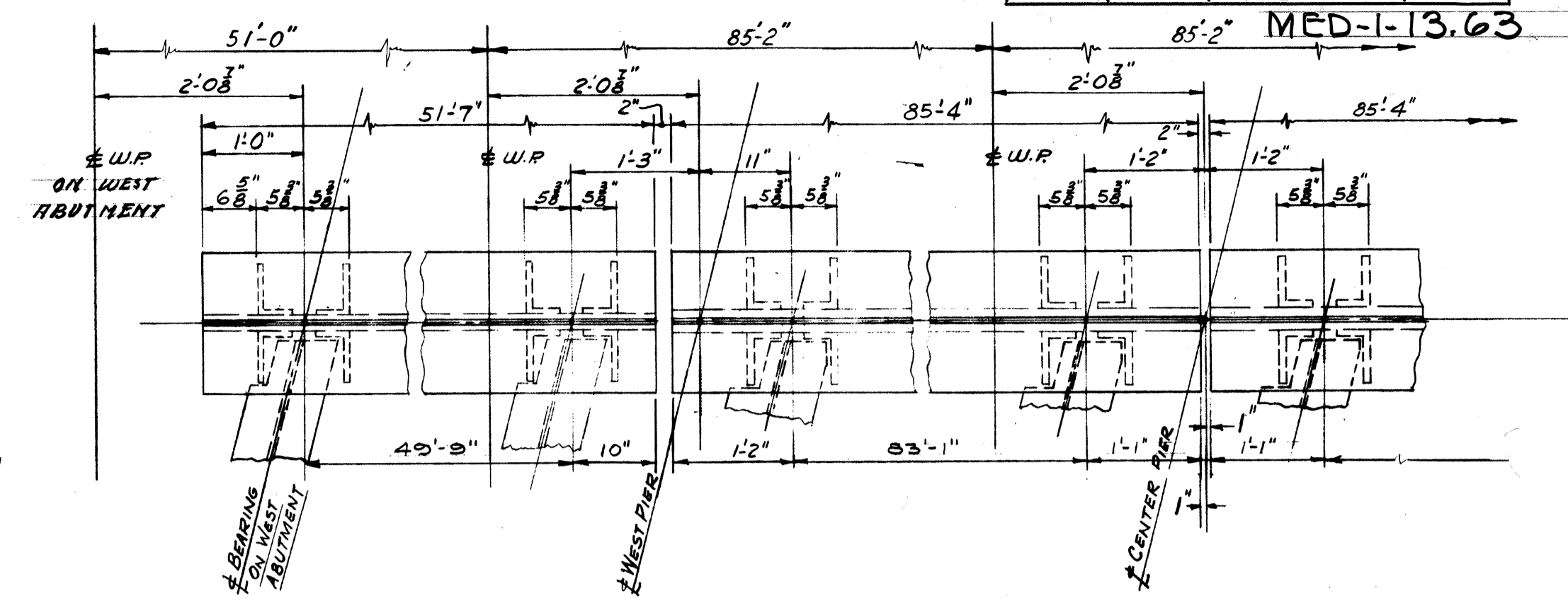
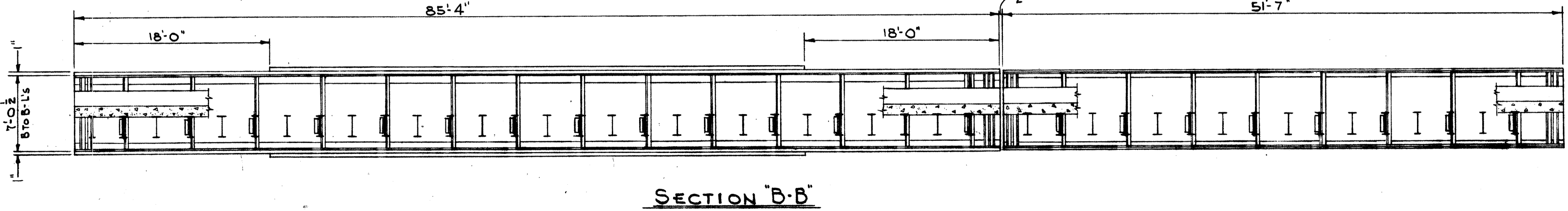
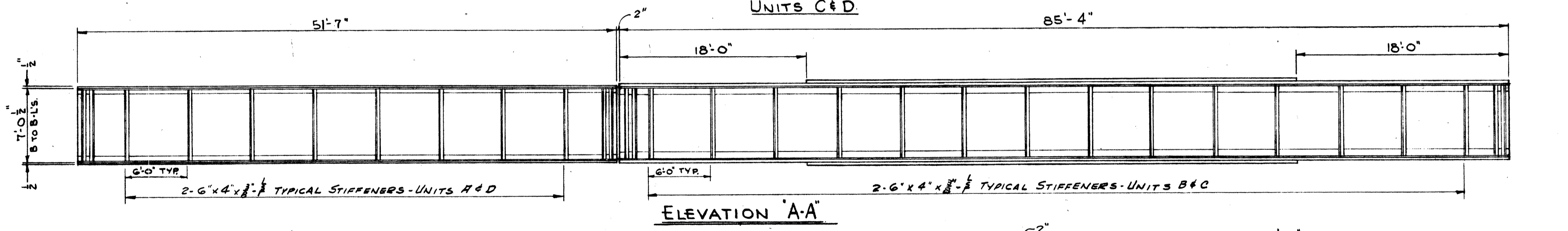
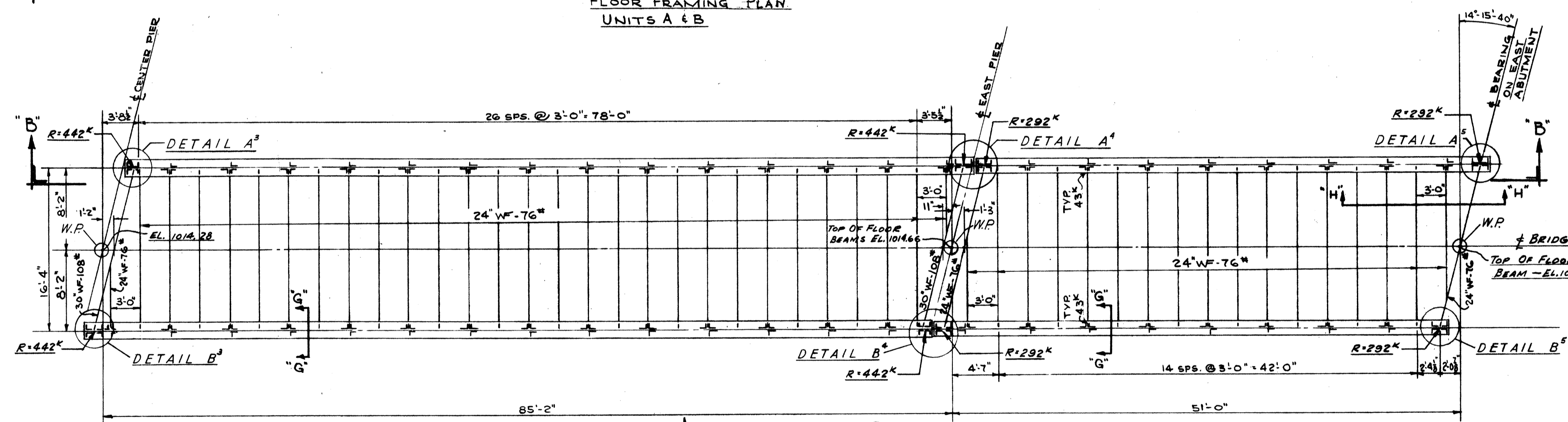
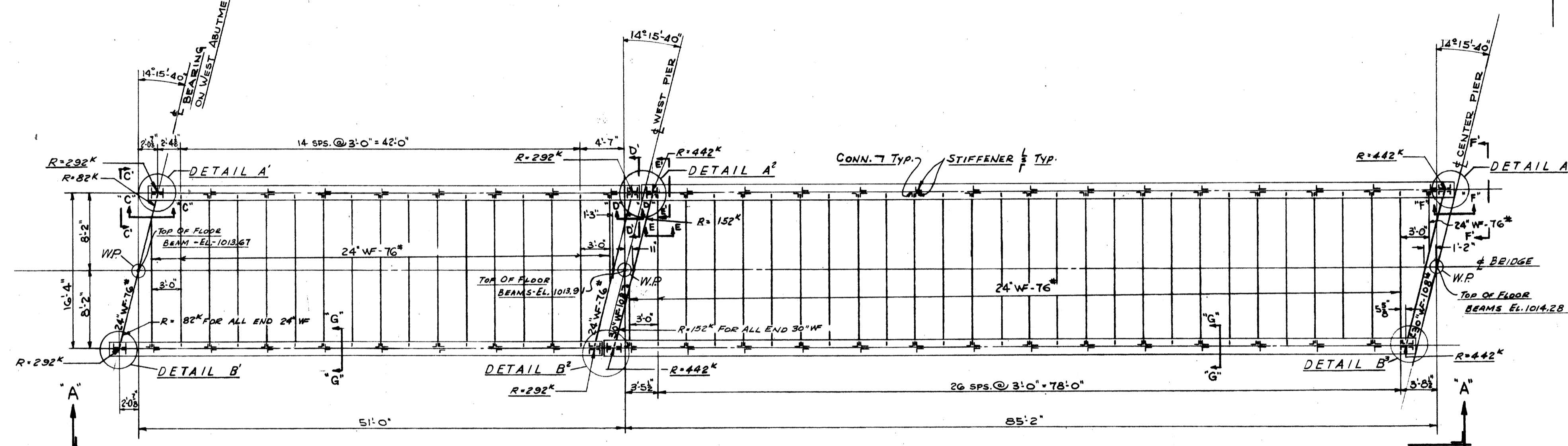
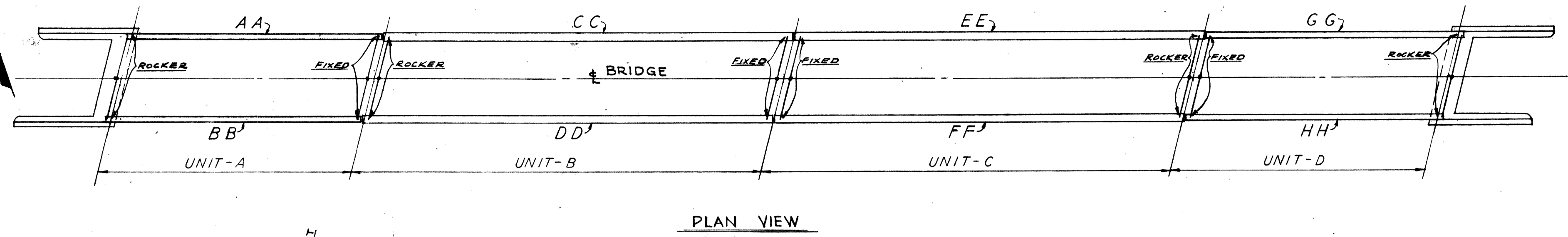
MED-1-13.63



NOTE: REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2" UNLESS OTHERWISE NOTED.

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
BEISWENGER & HOCH, Consulting Engineers AKRON, OHIO					
CONCRETE DECK SLAB					
BRIDGE NO. MED. -1- 1529 UNDER A. C. & Y. RAILROAD MEDINA COUNTY STA. 895 + 40.90					
DESIGNED A/H	DRAWN JLH	TRACED	CHECKED A/H	REVIEWED	DATE 4-28

MICROFILMED
DEC 27 1989



NO.	NAME	WEB PLATE	FLANGE ANGLES	COVER PLATES	COVER PL.
1	AA	84" x 1/2"	4-8 x 6 x 1/2"	2-18 x 1/2" FULL LENGTH	
1	BB	84" x 1/2"	4-8 x 6 x 1/2"	2-18 x 1/2" FULL LENGTH	
1	CC	84" x 1/2"	4-8 x 8 x 1"	2-22 x 1" FULL LENGTH	2-22 x 1" x 3/4"
1	DD	84" x 1/2"	4-8 x 8 x 1"	Do Do Do	Do Do
1	EE	84" x 1/2"	4-8 x 8 x 1"	Do Do Do	Do Do
1	FF	84" x 1/2"	4-8 x 8 x 1"	Do Do Do	Do Do
1	GG	84" x 1/2"	4-8 x 6 x 1/2"	2-18 x 1/2" FULL LENGTH	
1	HH	84" x 1/2"	4-8 x 6 x 1/2"	2-18 x 1/2" FULL LENGTH	

CHAMBER GIRDERS CC, DD, EE & FF 3/4"

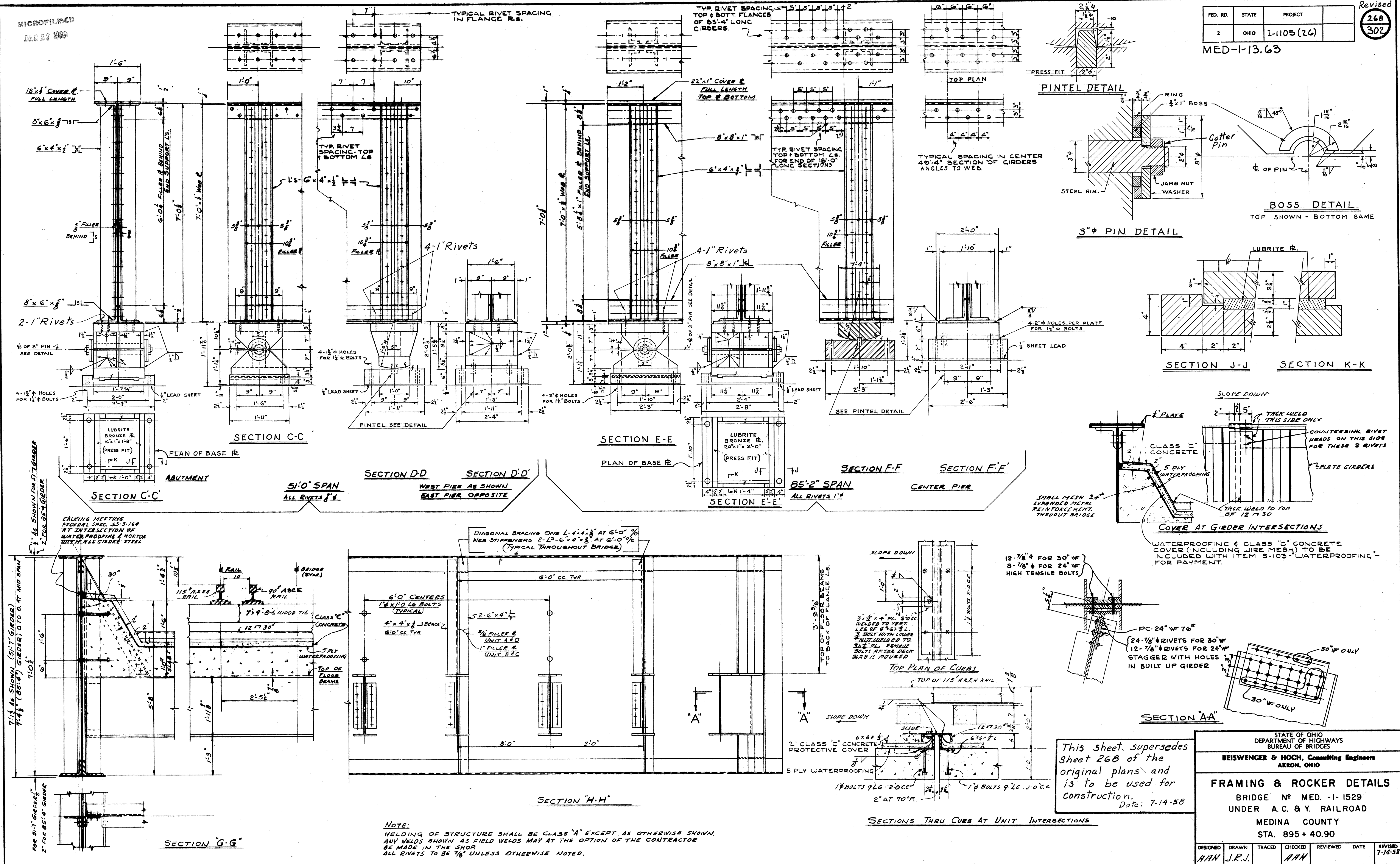
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

**BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO**

FRAMING PLANS & ELEVATIONS
BRIDGE NO. MED. -I-1529
UNDER A. C. & Y. RAILROAD
MEDINA COUNTY
STA. 895 + 40.90

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AAH	J.R.J.		AAH			

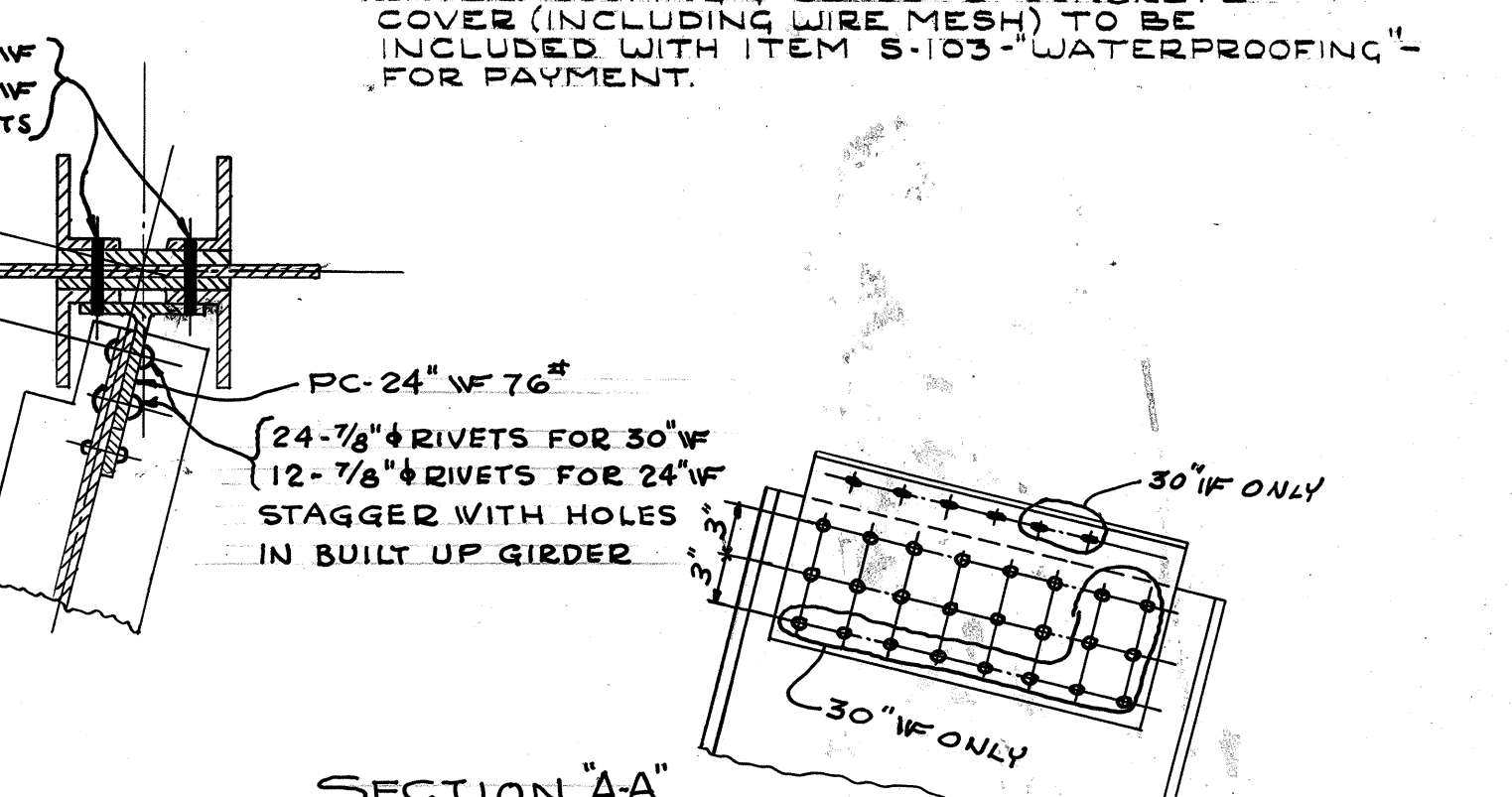
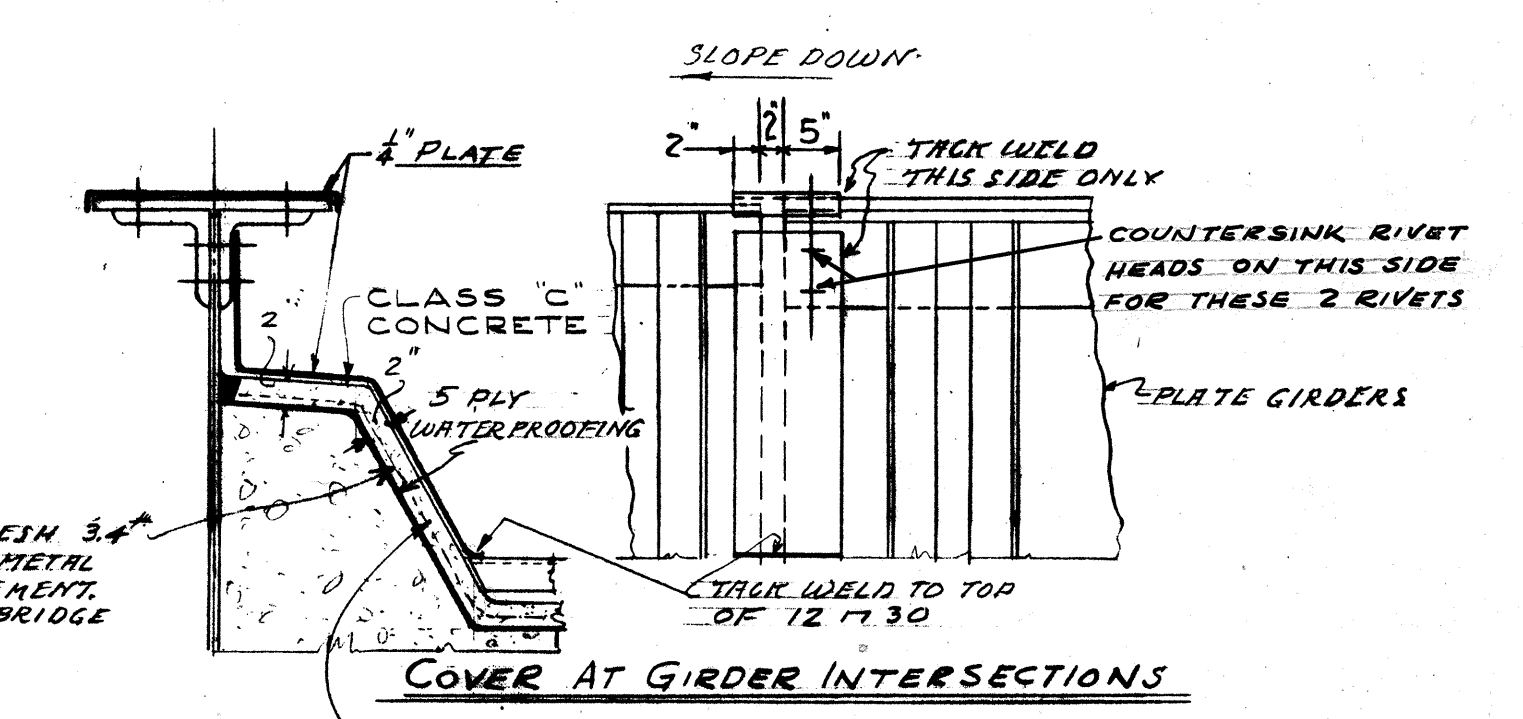
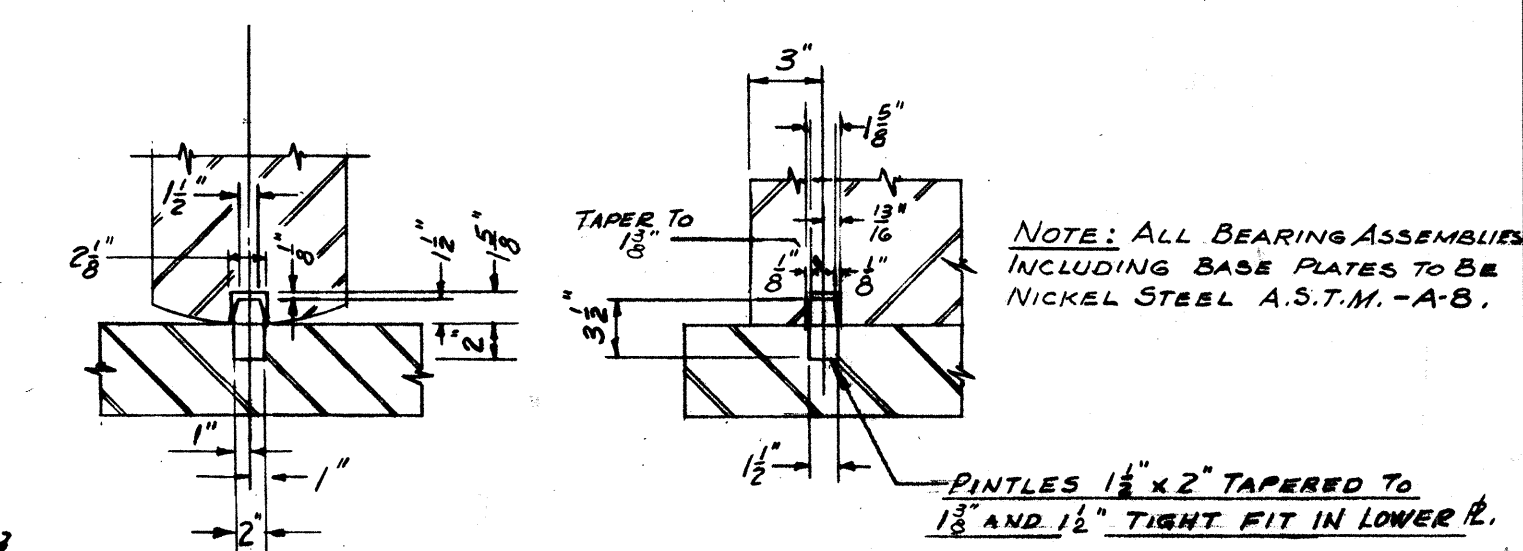
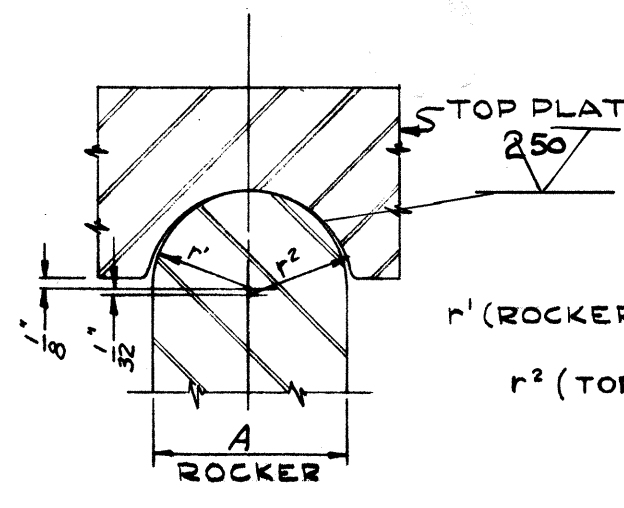
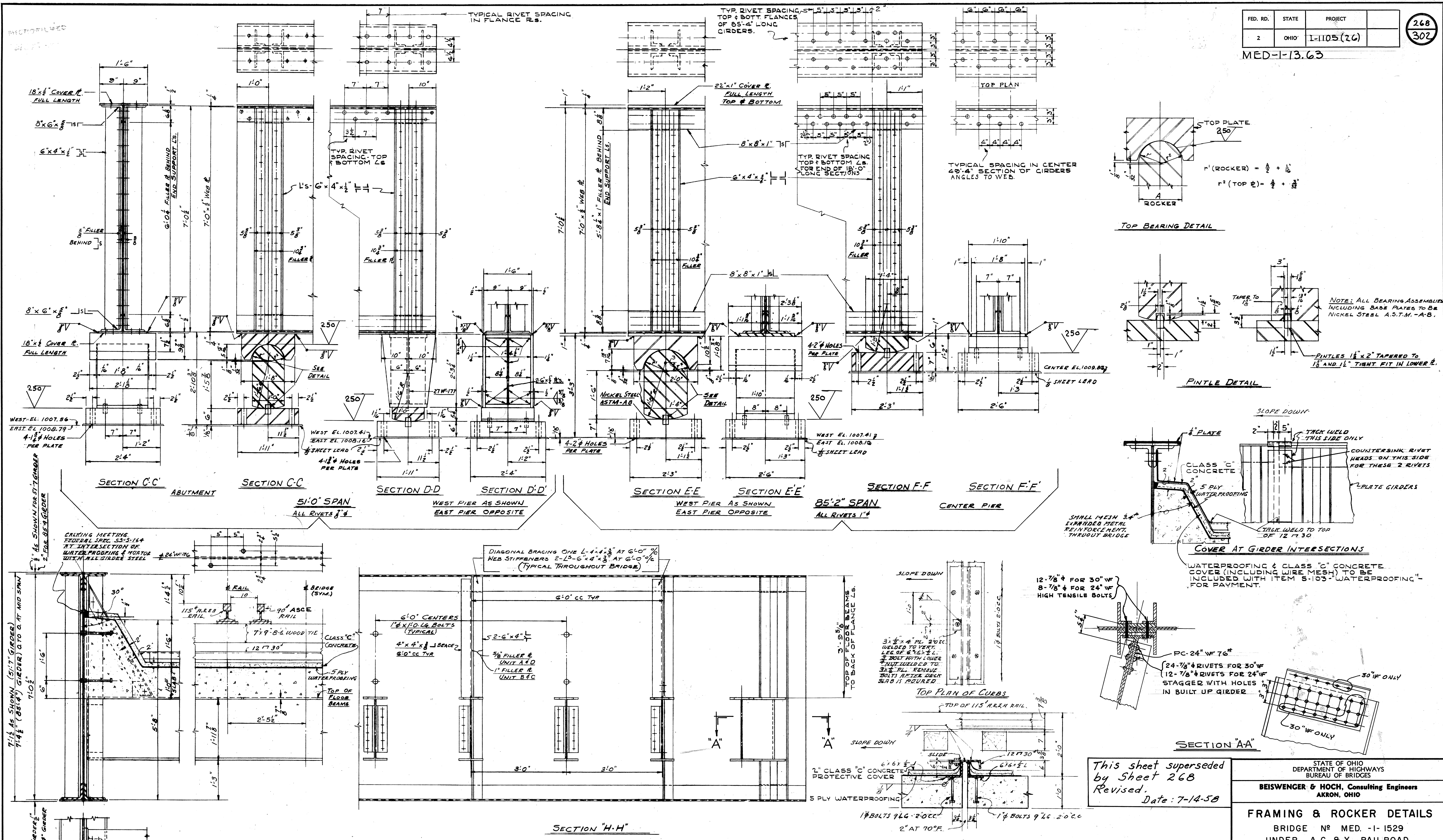
MICROFILMED
DEC 27 1989



This sheet supersedes
Sheet 268 of the
original plans and
is to be used for
construction.
Date: 7-14-58

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES				
BEISWENGER & HOCH, Consulting Engineers AKRON, OHIO				
FRAMING & ROCKER DETAILS				
BRIDGE No. MED. -1-1529				
UNDER A. C. & Y. RAILROAD				
MEDINA COUNTY				
STA. 895 + 40.90				
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
AAH	J.R.J.		AAH	
				DATE
				7-14-58

MED-1-13.63



This sheet superseded by Sheet 268 Revised. Date: 7-14-58

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
BEISWENGER & HOCH, Consulting Engineers AKRON, OHIO					
FRAMING & ROCKER DETAILS					
BRIDGE No. MED. -1- 1529					
UNDER A. C. & Y. RAILROAD					
MEDINA COUNTY					
STA. 895 + 40.90					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
ANN	J.P.I.		ANN		4-28 7-14-58

NOTE: WELDING OF STRUCTURE SHALL BE CLASS "A" EXCEPT AS OTHERWISE SHOWN. ANY WELDS SHOWN AS FIELD WELDS MAY AT THE OPTION OF THE CONTRACTOR BE MADE IN THE SHOP. ALL RIVETS TO BE 7/8" UNLESS OTHERWISE NOTED.

MICROFILMED
DEC 27 1989

FED. RD.	STATE	PROJECT
2	OHIO	I-1105(26)

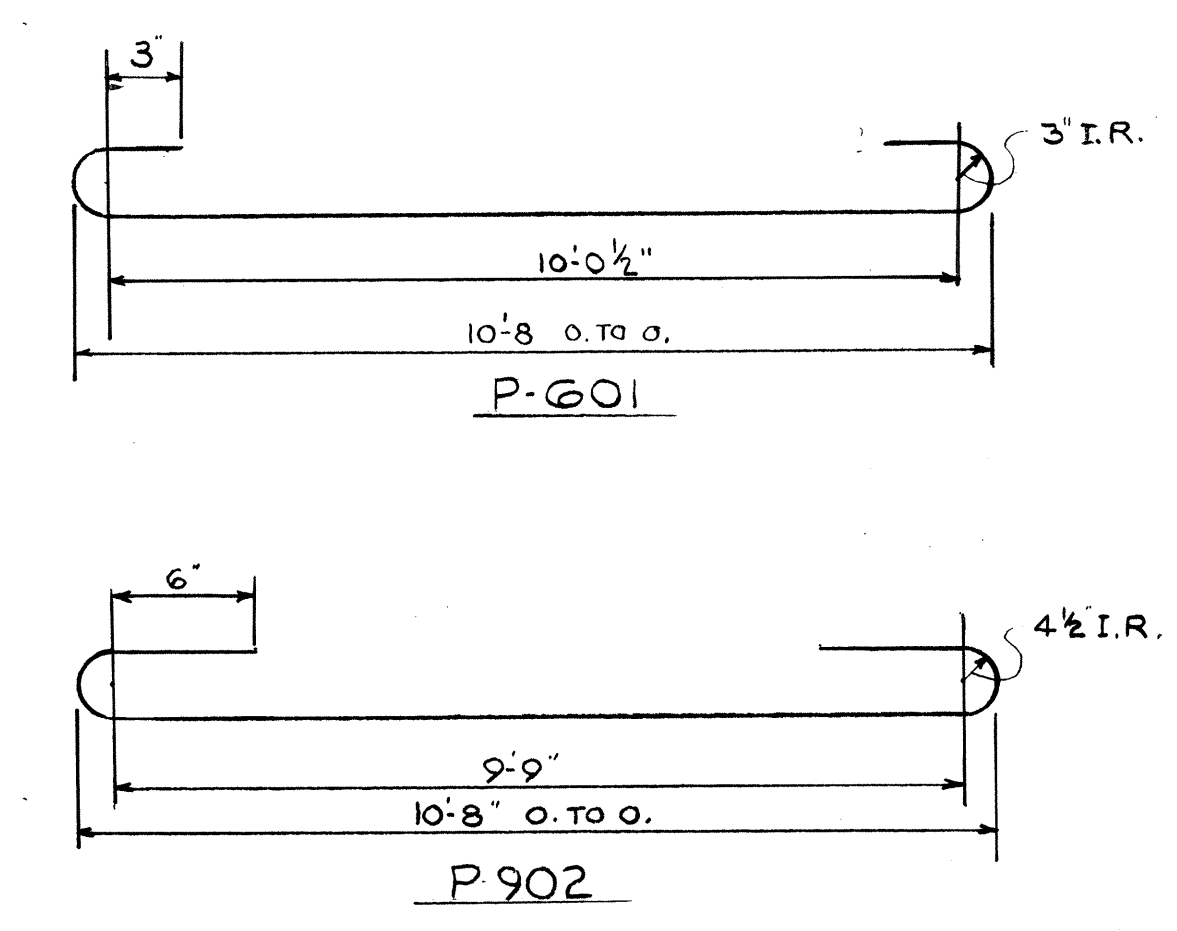
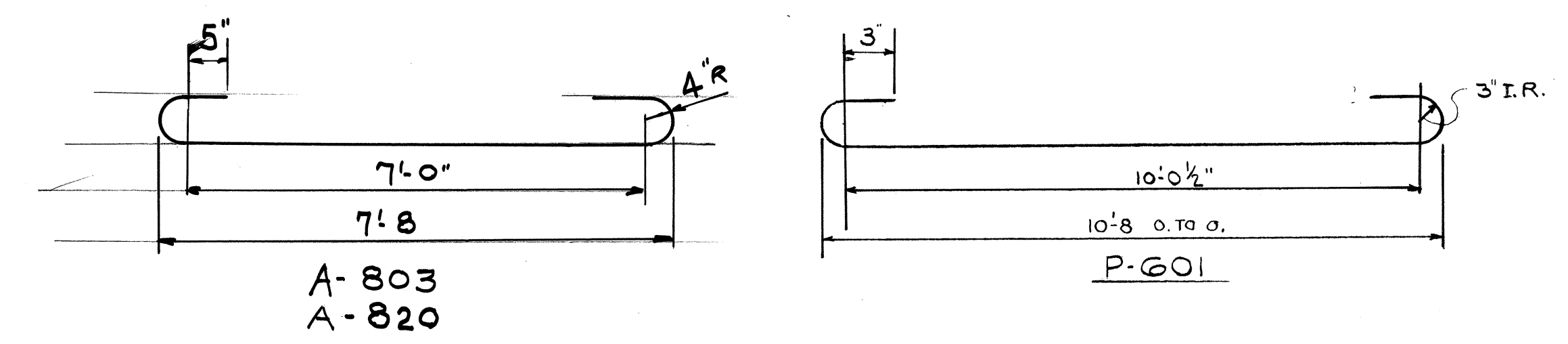
269
302

MED-I-13.63

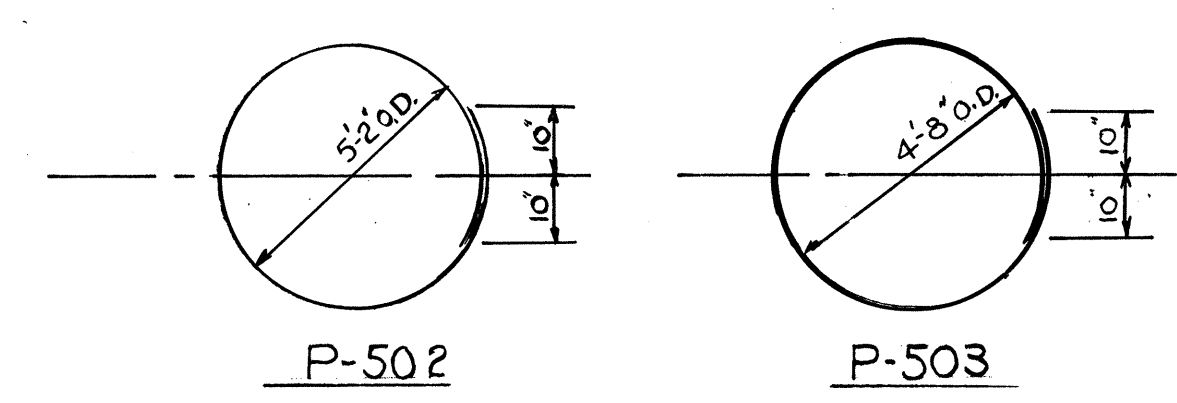
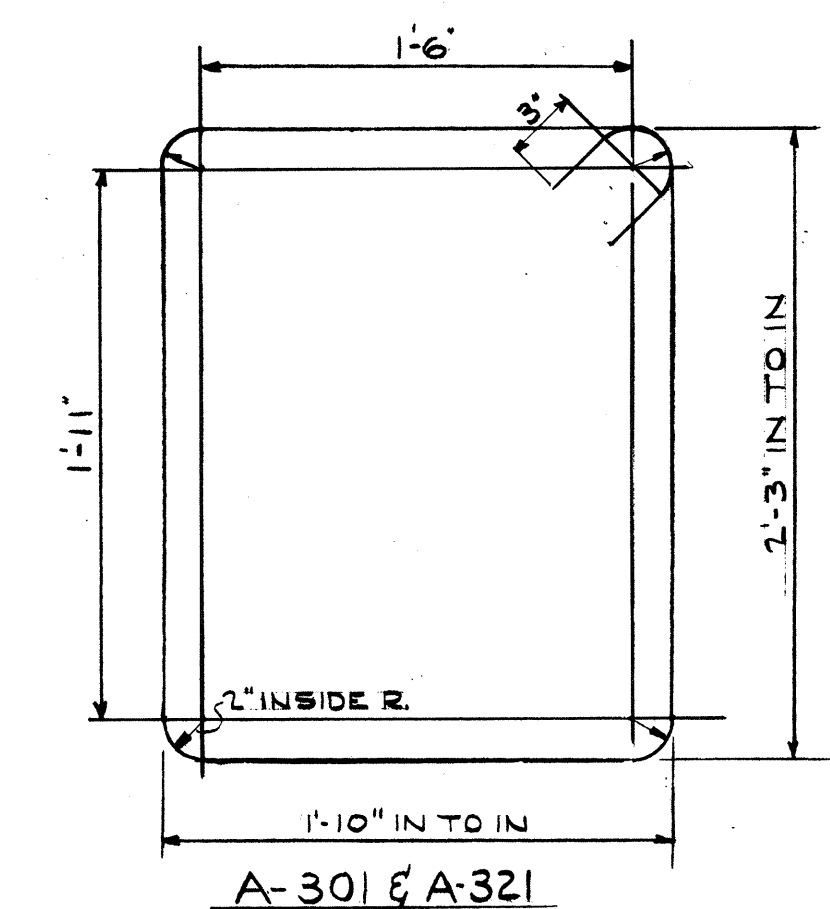
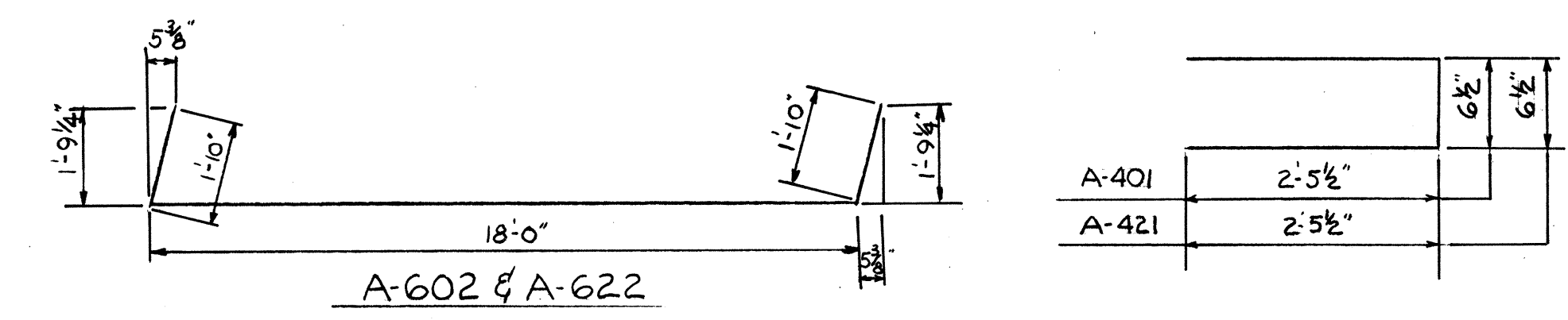
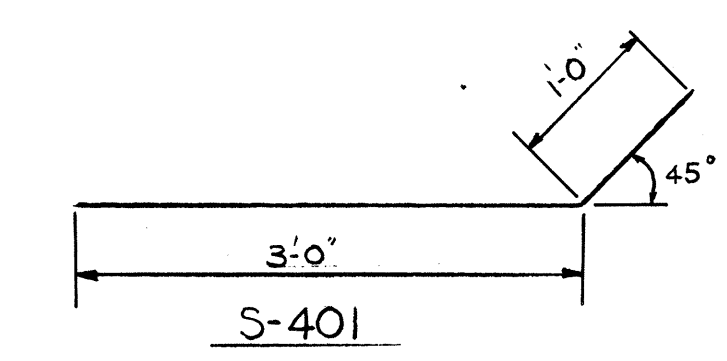
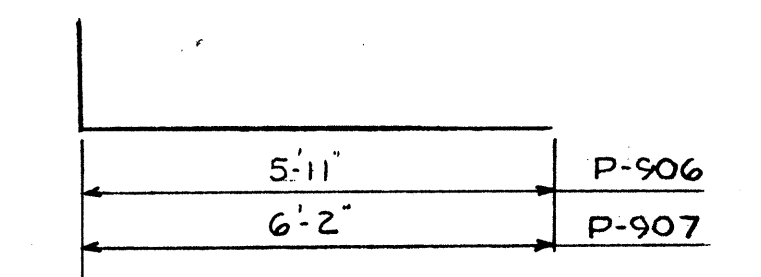
REINFORCING STEEL SCHEDULE

MARK NO.	NUMBER REQD.	LENGTH	WEIGHT IN LBS.	SHAPE	MARK NO.	NUMBER REQD.	LENGTH	WEIGHT IN LBS.	SHAPE
EAST ABUTMENT					PIERS AND MATS				
A-301	4	8'-5"	13	BT.					
* A-301	4	8'-5"	13	BT.					
A-401	30	5'-4"	114	BT.					
A-501	4	6'-3"	26	ST.	P-501	63	10'-8"	701	ST.
A-502	4	9'-0"	38	ST.	P-502	36	17'-10"	669	BT.
A-503	48	7'-10"	392	ST.	P-503	68	16'-1"	1141	BT.
A-504	14	11'-0"	173	ST.	* P-503	6	16'-1"	101	BT.
A-505	42	15'-4"	672	ST.	P-601	39	12'-4"	723	BT.
A-506	12	5'-4"	67	ST.					
A-507	6	5'-0"	31	ST.	P-801	54	26'-0"	3750	ST.
A-510	9	18'-0"	168	ST.	P-901	40	22'-0"	2992	ST.
A-511	18	4'-9"	89	ST.	P-902	36	13'-4"	1631	BT.
A-512	17	7'-8"	136	ST.	P-903	36	14'-11"	1826	ST.
A-513	16	6'-3"	104	ST.	P-904	36	15'-2"	1857	ST.
A-514	16	7'-3"	121	ST.	P-905	36	15'-7"	1907	ST.
* A-535	4	2'-8"	11	ST.	P-906	72	6'-6"	1591	BT.
A-601	4	10'-0"	60	ST.	P-907	36	6'-9"	826	BT.
A-602	16	21'-6"	516	BT.	* P-908	72	4'-0"	979	ST.
A-603	24	6'-8"	241	ST.					
A-604	4	11'-0"	66	ST.	P-1001	20	22'-0"	1893	ST.
A-605	32	10'-8"	513	ST.					
A-801	10	18'-0"	482	ST.	TOTAL WEIGHT PIERS AND MATS = 21,572*				
A-802	16	19'-0"	812	ST.	SLAB = 22,652				
A-803	16	9'-11"	419	BT.					
TOTAL WT. EAST ABUTMENT = 5277#					S-401	364	4'-0"	970	BT.
WEST ABUTMENT					S-501	60	45'-0"	2820	ST.
A-321	4	8'-5"	13	BT.	S-502	60	41'-8"	2610	ST.
* A-321	4	8'-5"	13	BT.	S-503	372	16'-0"	6208	ST.
A-421	30	5'-4"	114	BT.	S-504	4	6'-2"	26	ST.
					S-505	4	12'-2"	51	ST.
A-520	12	5'-4"	67	ST.	S-506	4	5'-2"	22	ST.
A-521	48	7'-10"	392	ST.	S-507	4	11'-0"	46	ST.
A-522	14	11'-0"	173	ST.	S-508	4	9'-0"	38	ST.
A-523	42	15'-4"	672	ST.	S-509	4	4'-0"	17	ST.
A-524	6	5'-0"	31	ST.	S-510	4	5'-0"	21	ST.
A-525	4	9'-0"	38	ST.	S-511	4	10'-0"	42	ST.
A-526	4	6'-3"	26	ST.	S-512	60	51'-10"	3,244	ST.
A-529	16	6'-3"	104	ST.	S-601	24	45'-0"	1622	ST.
A-530	9	18'-0"	168	ST.	S-602	24	42'-0"	1514	ST.
A-531	17	7'-8"	136	ST.	S-603	24	51'-10"	1868	ST.
A-532	18	4'-9"	89	ST.					
A-533	16	7'-3"	121	ST.	TOTAL WEIGHT SLAB = 21,119				
* A-534	4	2'-8"	11	ST.	REPLACEMENT STEEL BARS				
A-621	4	10'-0"	60	ST.	RE-401	1	5'-3"		ST.
A-622	16	21'-6"	516	BT.	RE-501	2	5'-6"		ST.
A-623	24	6'-8"	241	ST.	RE-601	1	6'-0"		ST.
A-624	4	11'-0"	66	ST.	RE-801	1	6'-6"		ST.
A-625	32	10'-8"	513	ST.	RE-901	1	6'-10"		ST.
					RE-1001	1	7'-2"		ST.
A-820	16	9'-11"	419	ST. BT.					
A-821	16	19'-0"	812	ST.					
A-822	10	18'-0"	482	ST.					
TOTAL WT. WEST ABUTMENT = 5277#									

TOTAL WT. REINFORCING BARS
EAST ABUTMENT 5277 - 5277 5277
WEST ABUTMENT 5277 - 5277 5277
PIERS & MATS 21,572 - 21,572 21,572
SLAB 22,652 - 22,652 22,652
GRAND TOTAL 50,078 - 50,078 50,078



* ADDED BARS DUE TO CHANGE IN DESIGN OF ROCKERS & BOLSTERS



NOTE:
BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT, WHERE 3 DIGITS ARE USED, THE FIRST 2 DIGITS WHERE 4 DIGITS ARE USED, EXAMPLES:
401 IS A NO. 4 SIZE BAR
1001 IS A NO. 10 SIZE BAR
REPLACEMENT BARS -
IF REINFORCING BARS ARE FABRICATED FROM STOCK WHICH HAS BEEN TESTED AND APPROVED BY THE OHIO HIGHWAY TESTING LABORATORY, TEST SAMPLES AS PROVIDED IN SEC 5.402 NEED NOT BE FURNISHED AND REPLACEMENT BARS WILL NOT BE REQUIRED.

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
BEISWENGER & HOCH, Consulting Engineers AKRON, OHIO					
REINFORCING STEEL SCHEDULE					
BRIDGE No MED. -I- 1529					
UNDER A. C. & Y RAILROAD					
MEDINA COUNTY					
STA. 895 + 40.90					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
DGS	JLH		AAH		4-28
					7-14-58