

LAKE COUNTY  
LAK-1-2651  
ASHTABULA COUNTY  
ATB-1-0.00

REINFORCING STEEL LIST

THREE PIERS					Bending Schedule
MK	Length	Shape	No.	Weight	
P401	11'-6"	Bent	72	553	
P402	10'-2"	Bent	24	163	
P501	24'-0"	Str.	12	300	
P601	31'-8"	Str.	19	904	
P602	10'-10"	Str.	70	1139	
P603	10'-2"	Str.	58	886	
P701	31'-8"	Str.	10	647	
P702	21'-7"	Str.	9	397	
P703	17'-11"	Str.	9	330	
P704	8'-0"	Str.	8	131	
P705	5'-5"	Bent	20	221	
P801	32'-0"	Bent	4	342	
P802	29'-4"	Bent	4	313	
P803	31'-8"	Str.	29	2,452	
P804	26'-8"	Str.	8	570	
P805	26'-0"	Str.	4	278	
P806	24'-0"	Str.	4	256	
P807	23'-0"	Str.	8	491	
P808	8'-0"	Str.	9	192	
P809	7'-0"	Str.	16	299	
P810	5'-9"	Bent	8	123	
P901	32'-0"	Bent	2	218	
P902	29'-4"	Bent	2	199	
P903	26'-8"	Str.	2	272	
P904	26'-0"	Str.	2	177	
P905	24'-0"	Str.	2	163	
P906	7'-0"	Str.	5	119	
P1101	23'-0"	Str.	20	2444	
P1102	21'-7"	Str.	18	2064	
P1103	17'-11"	Str.	20	1904	
P1104	7'-1"	Bent	58	2183	
P403	2'-0"	Str.	102	136	
P604	9'-8"	Str.	30	726	
P605	8'-0"	Str.	9	108	
Total				21,700	

SPIRAL REINFORCING LIST							
MK	No.	Size	Core Dia.	Length	Pitch	No. of Turns	Weight
SP401	3	2"	2'-8"	23.31	4 1/2"	65	2282
SP402	3	2"	2'-8"	19.90	4'2"	56	1103
SP403	3	2"	2'-8"	16.25	4'2"	46	906
Total							4291

Notes:  
Spiral reinforcing bars shall not have deformations but shall in other respects conform to Item 54.  
Four steel channel, tee or angle spacers, weighing approximately 0.68 lb. per lin. ft. of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of lbs. of these spacers, based on 0.68 lb. per lin. ft. will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.  
The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap.  
The "No. of Turns" shown in the steel list for the spiral bars is the "Length divided by the Pitch", plus 3 turns (total number of closed coils), expressed as the nearest whole number.  
1/2 closed coils shall be provided at the ends of each spiral unit.  
Reinforcing steel shall clear the face of the concrete by 2" unless otherwise noted.

CHARLES L. BARBER AND ASSOCIATES  
HARRY BALKE ENGINEERS  
TOLEDO, OHIO

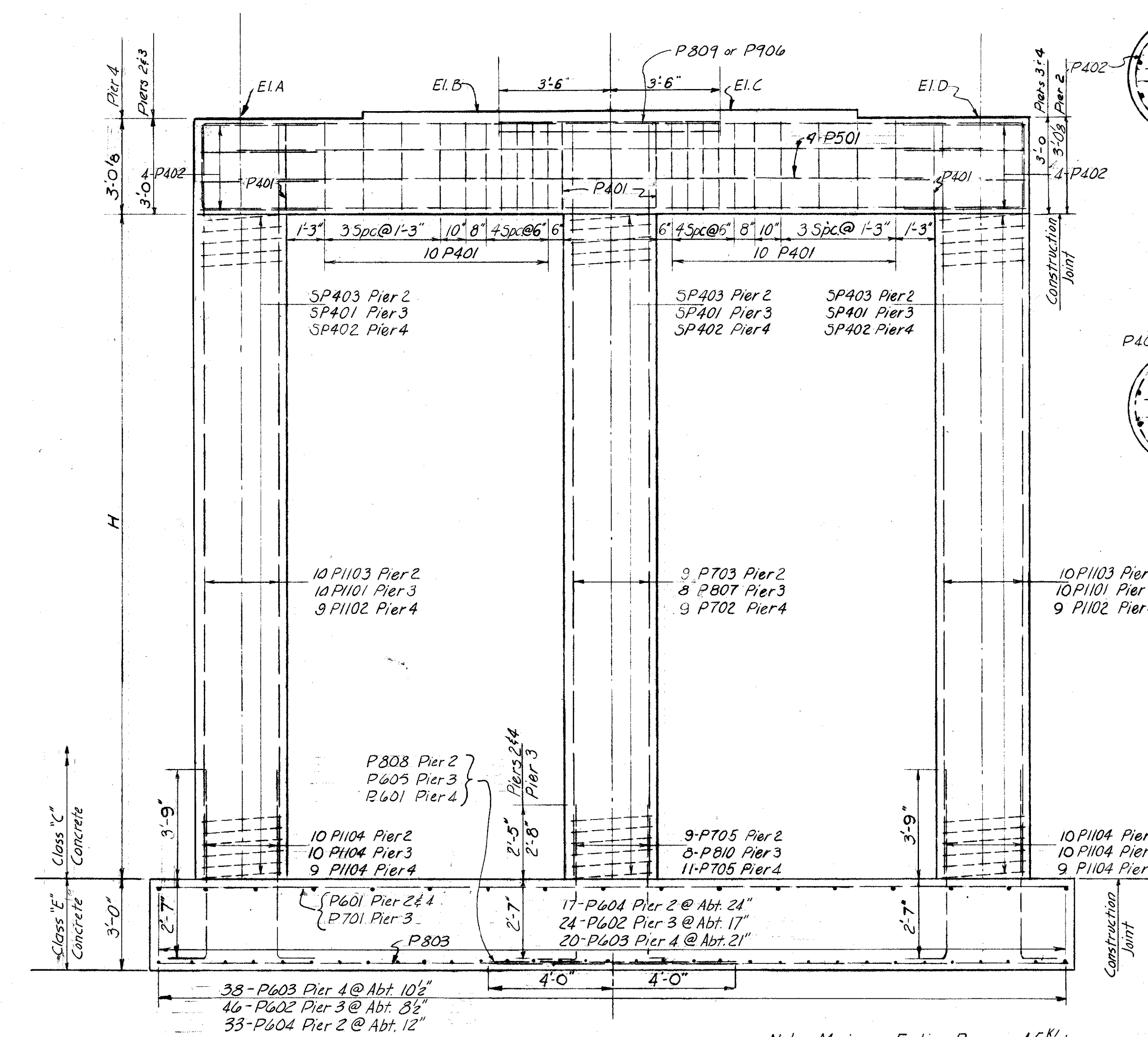
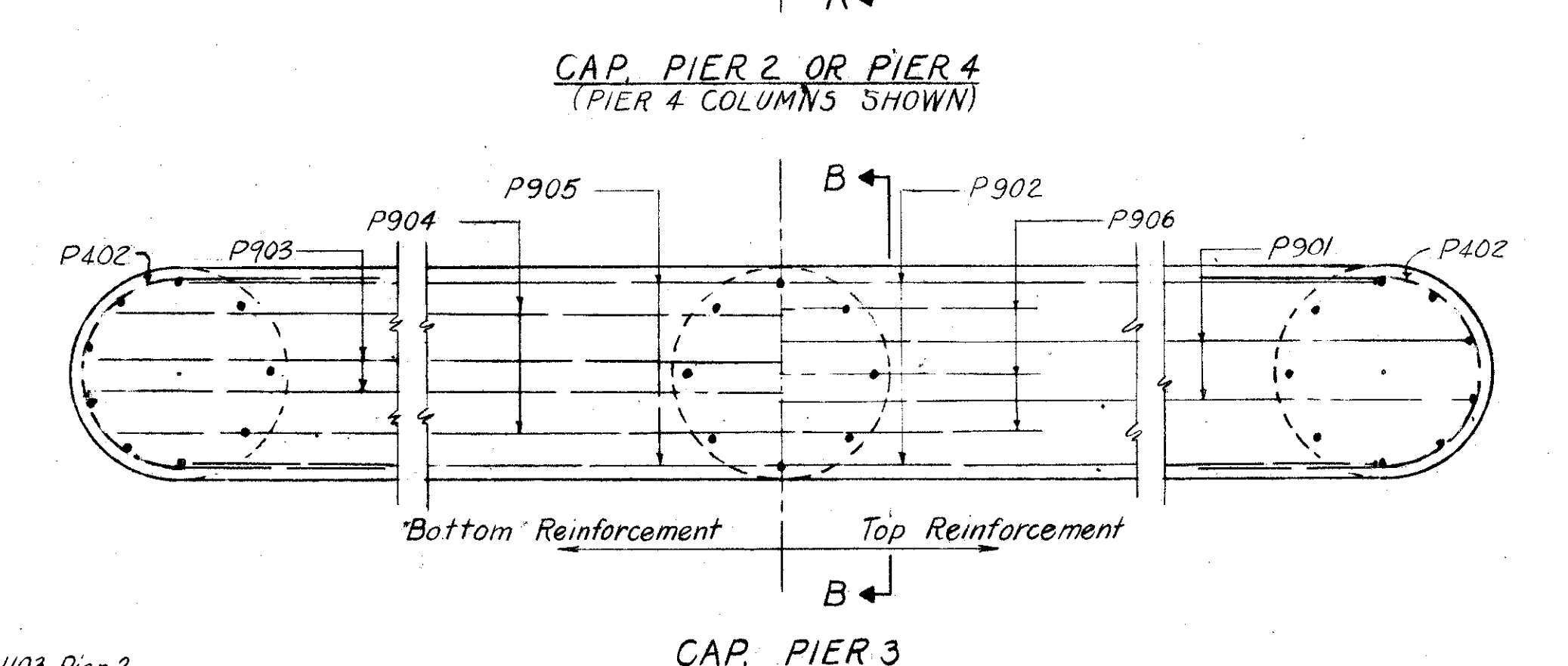
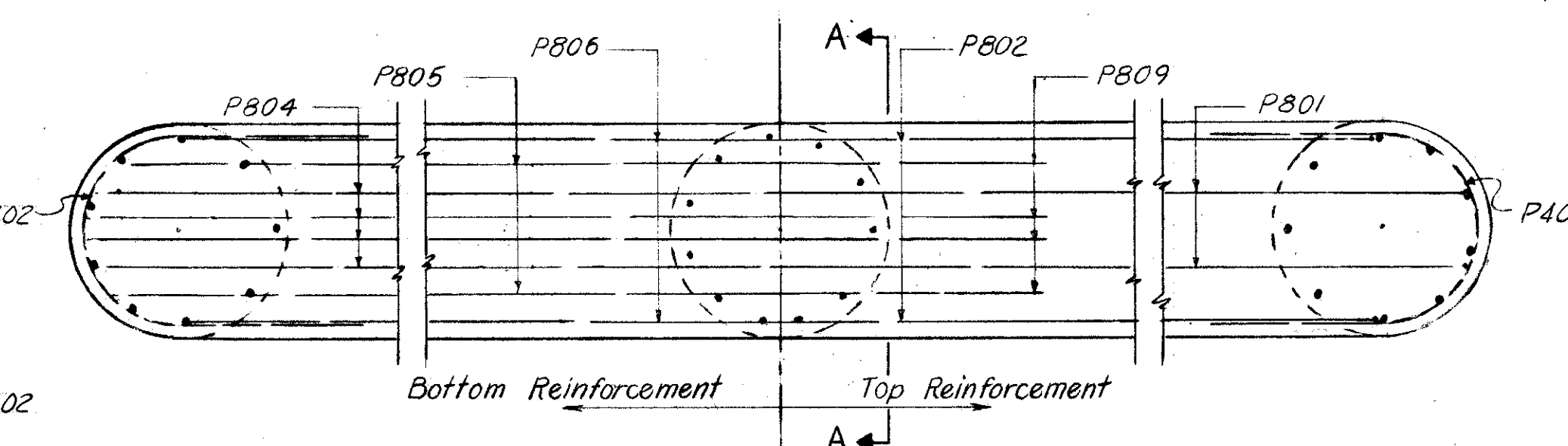
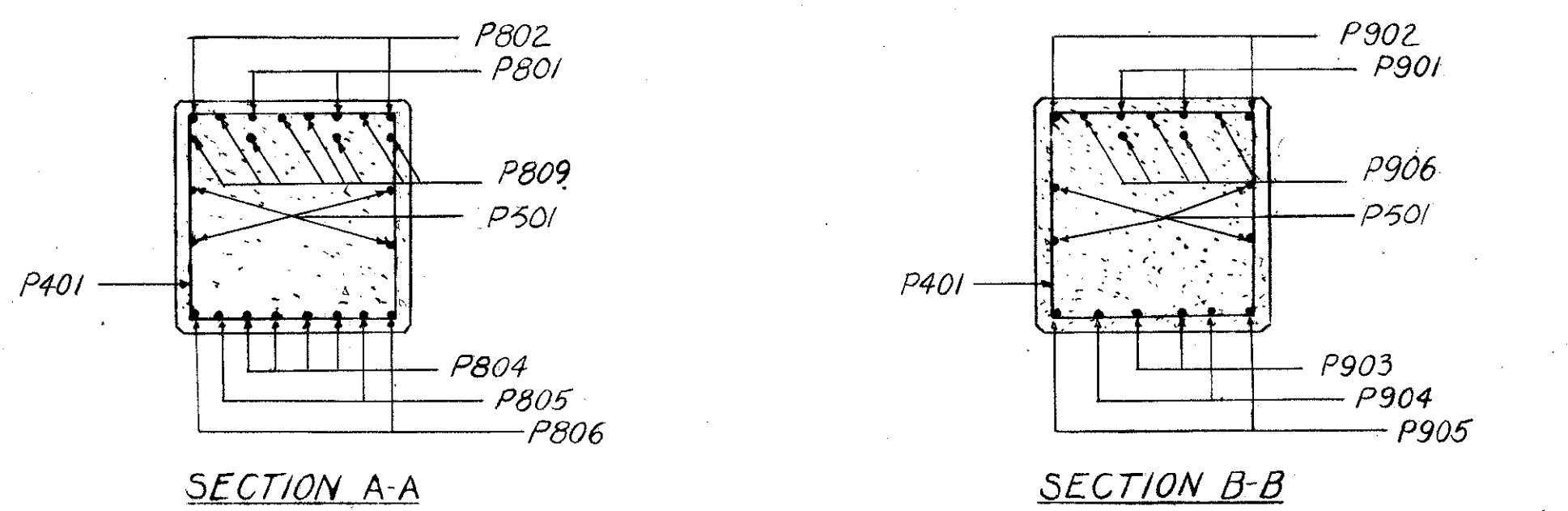
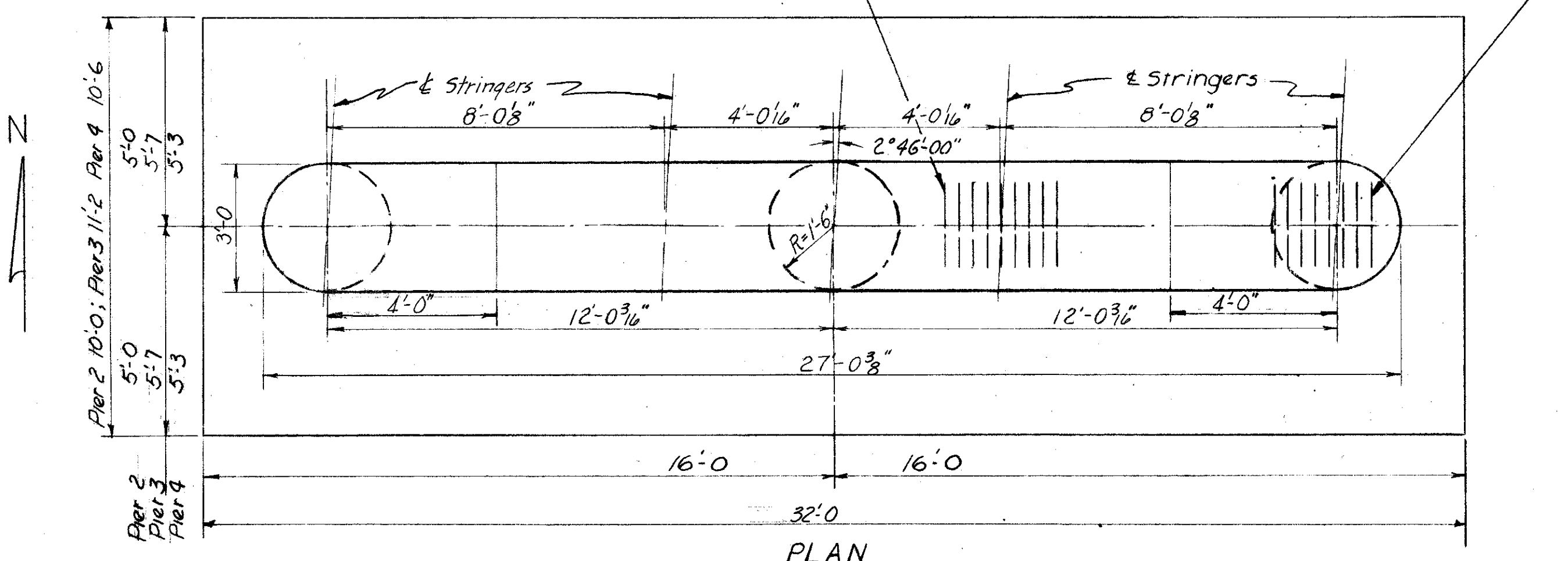
PIER DETAILS

BRIDGE NO. ATB-1-0233  
SRI UNDER LEFEVER RD.  
ASHTABULA CO. SR 1  
STA. 123+59.21

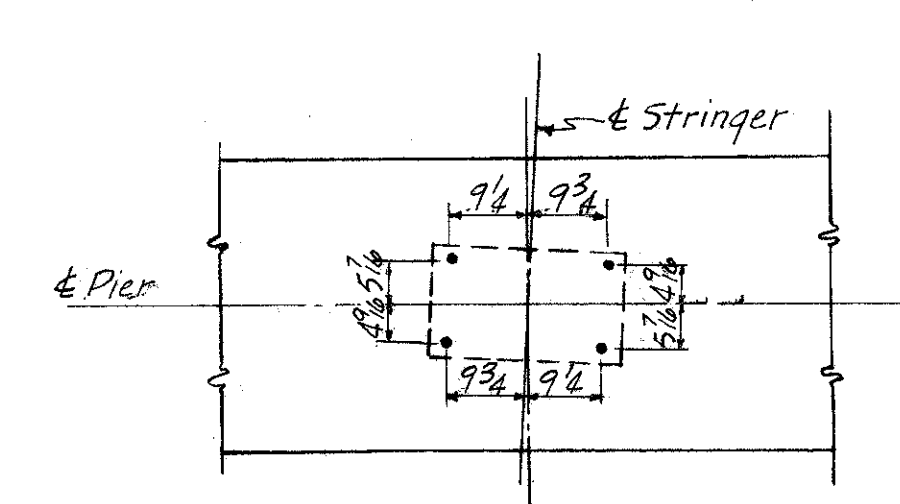
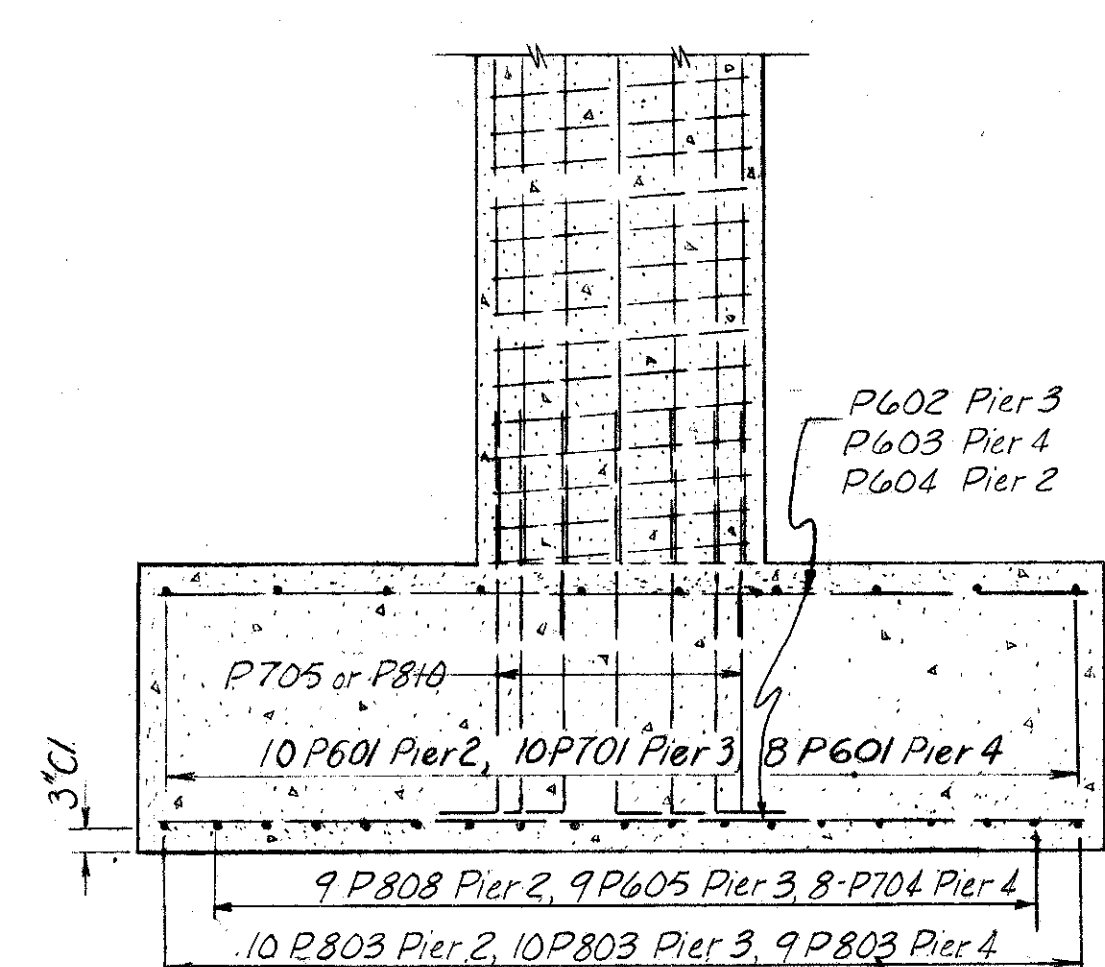
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.T.L.	C.T.L.		J.B.	ACA	8/28/57	

	EI. A	EI. B	EI. C	EI. D	EI. Bot Ftg.	H
Pier 2	826.25	826.38	826.38	826.26	804.00	16'-3"
Pier 3	826.31	826.44	826.44	826.31	797.00	23'-3 1/2"
Pier 4	825.91	826.03	826.03	825.90	800.00	19'-10 3/4"

Note:  
P403 @ 4" c.c. 3 under each exterior stringer & 9 under each interior stringer at each pier; space as shown to clear anchor bolts at pier 3. Clear concrete by 2".



Note: Maximum Footing Pressure 4.5 k/ft<sup>2</sup>



SECTION THROUGH INTERIOR COLUMN  
TYPICAL ANCHOR BOLT DETAIL  
B175 BOLSTER PIER 3