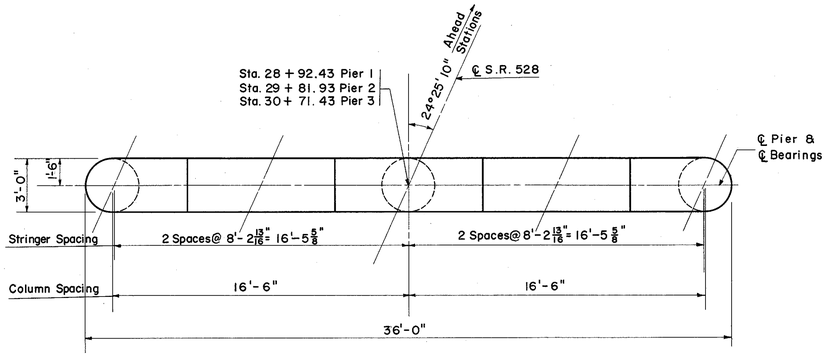
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	ACI-1103 (29)	

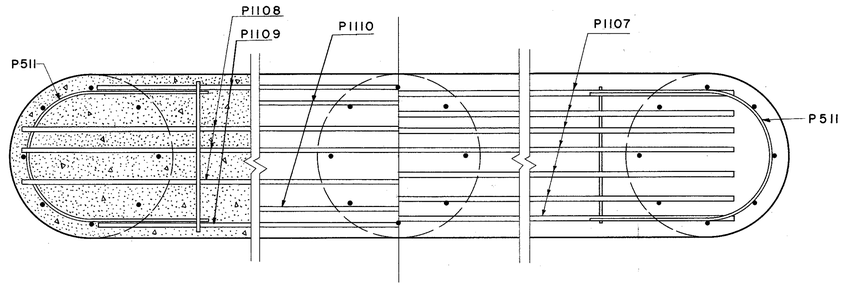
265
280

LAKE COUNTY

LAK-1-22.60

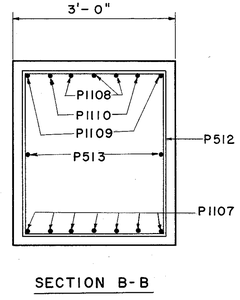


PIER CAP PLAN

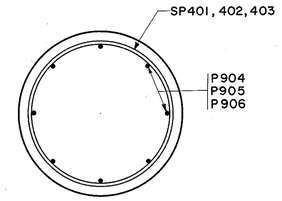


SECTION C-C

BEAM SEAT ELEVATION	Pier 1	819.~~37~~.51	819.~~65~~.57	819.~~73~~.66	819.~~37~~.50	819.~~41~~.35
	Pier 2	818.~~30~~.24	818.~~38~~.31	818.~~43~~.37	818.~~26~~.19	818.~~09~~.04
	Pier 3	816.~~90~~.84	816.~~95~~.88	~~817.00~~ 816.93	816.~~82~~.75	816.~~53~~.57



SECTION B-B

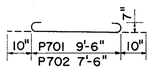


SECTION A-A

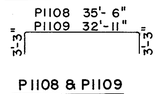
PIER BAR LIST

MARK	NO REQUIRED PIER 1	PIER 2	PIER 3	TOTAL	SIZE	LENGTH	TYPE	WEIGHT
P701	30	54	30	114	7	11'-2"	Bent	2602
P702	32	20	32	84	7	9'-2"	Bent	1574
P903	24	24	24	72	9	6'-8"	Bent	1632
P904	24	–	–	24	9	20'-0	Str.	1632
P905	–	24	–	24	9	18'-6"	Str.	1509
P906	–	–	24	24	9	17'-0"	Str.	1387
P1107	7	7	7	21	11	34'-0"	Str.	3793
P1108	3	3	3	9	11	41'-4"	Bent	1976
P1109	2	2	2	6	11	38'-9"	Bent	1233
P1110	2	2	2	6	11	14'-0"	Str.	446
P511	6	6	6	18	5	8'-0"	Bent	150
P512	22	22	22	66	5	11'-9"	Bent	809
P513	2	2	2	6	5	32'-0"	Str.	200
							TOTAL	18,943

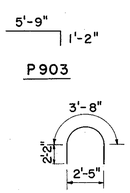
MARK	TOTAL	SIZE	LENGTH	PITCH	NO. OF TURNS	CORE DIA	WEIGHT
SP401	3	1/2 ϕ	16'-11"	4 1/2"	48	32"	816
SP402	3	1/2 ϕ	15'-6"	4 1/2"	49	32"	747
SP403	3	1/2 ϕ	14'-1"	4 1/2"	40	32"	681
						TOTAL	2,244



P701 & P702

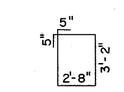


P1108 & P1109

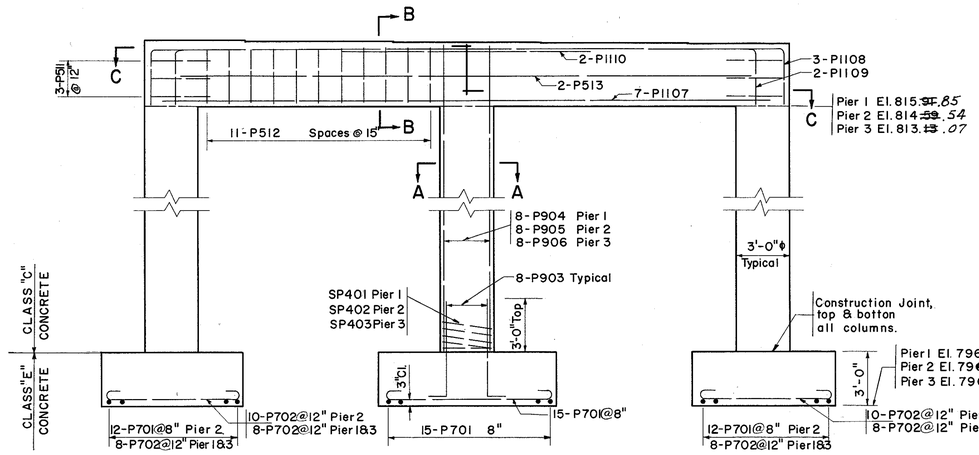


P903

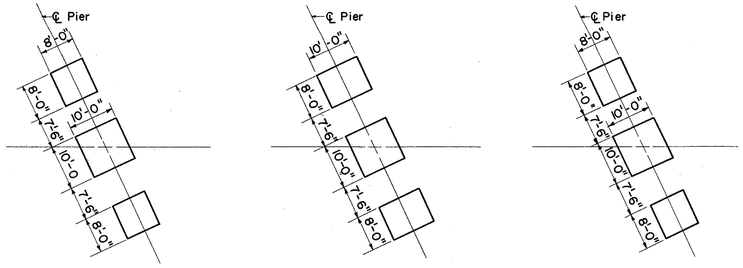
P511



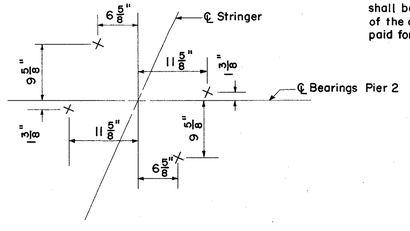
P512



PIER ELEVATION



FOOTING PLAN



ANCHOR BOLT LAYOUT
PIER 2

PIER NOTES

Special care shall be taken in placing reinforcing steel in the Pier Cap so that it will not interfere with the drilling of anchor bolt holes.

Reinforcing steel shall clear the face of the concrete by 2", unless otherwise noted.

All pier details and reinforcement are symmetrical about the center line of the pier, unless otherwise noted.

Foundation Bearing Pressure : Pier footings are designed for a maximum bearing pressure of 2 1/2 tons per sq.ft.

SPIRAL NOTES

The length shown in the bar list for the spiral bars is the distance from the top of the footing to the bottom of the cap.

The No. of Turns shown is the length divided by the pitch, plus 3 turns (total number of closed coils) expressed as the nearest whole number.

Spiral bars shall not have deformations but shall in other respects conform to item S-4.

1 1/2 Closed coils shall be provided at the ends of each spiral unit.

Four steel channel, tee or angle spacers, weighing approximately 0.68 lbs. per lin. ft., shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of spacers based on 0.68 lbs. per lin.ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

SEC. C-35 FED. AID PROJ. NO. ACI-1103(29)

PREPARED BY
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.
FOR

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

PIERS

BRIDGE NO. LAK-1-2588
S.R.I. UNDER S.R. 528
LAKE COUNTY
STA. 1048 + 74.65

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
T.K.		F.D.T.	F.J.			11-24-52

5613