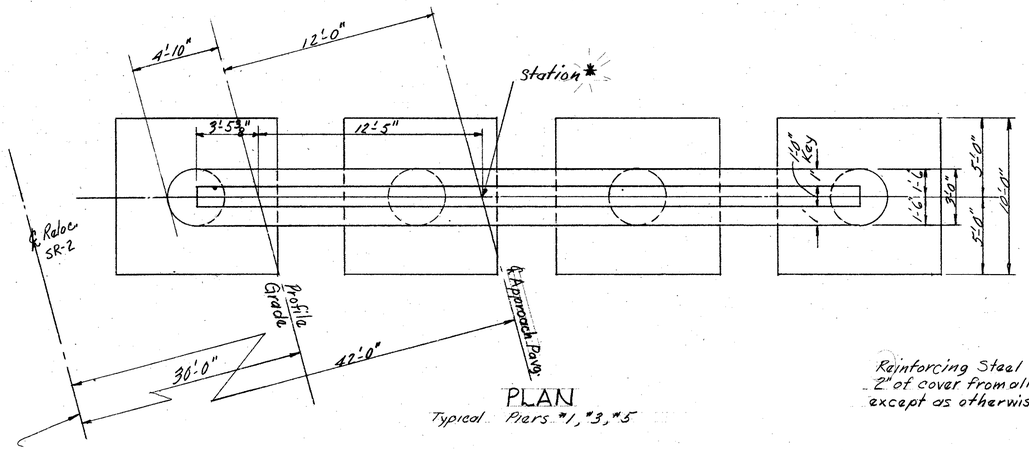
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	F - 329 (16)	

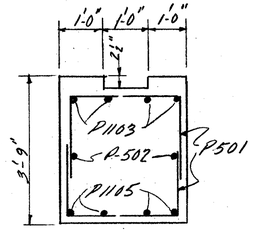
244
268

LAKE COUNTY
SEC. LAK-2-7.39

MICROFIL
DEC 5 1986

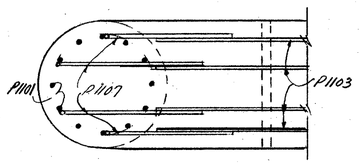


PLAN
Typical Piers #1, #3, #5

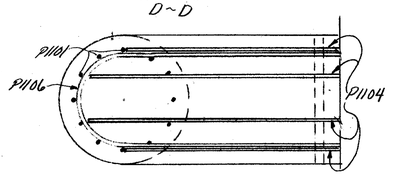


SECTION
C~C

Reinforcing Steel shall have 2" of cover from all all faces except as otherwise shown.

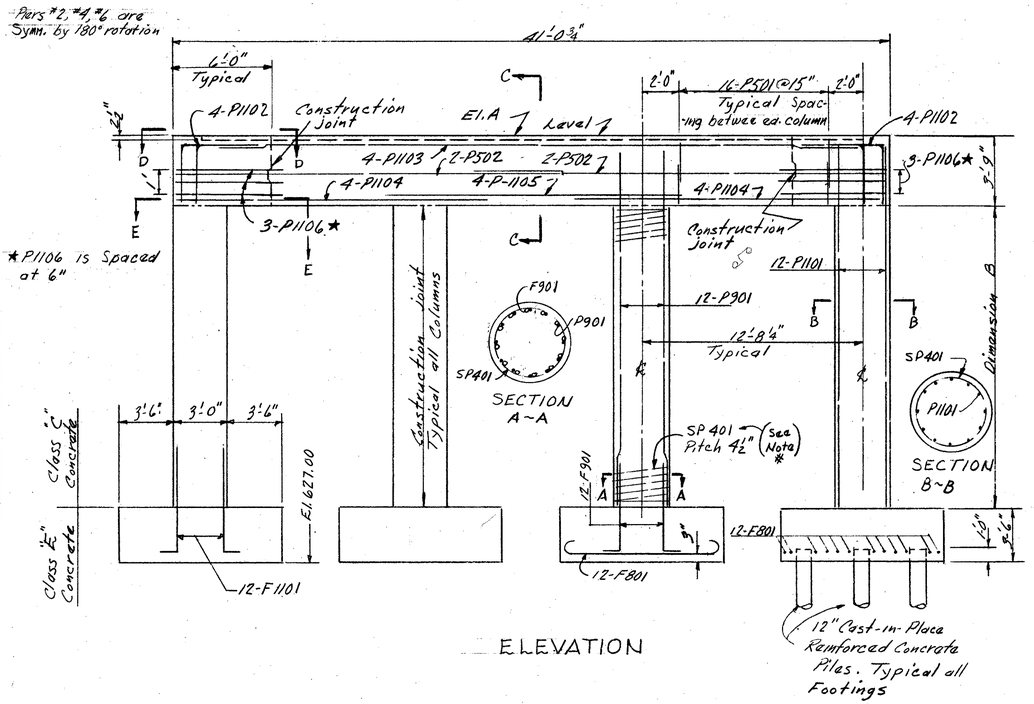


SECTION
D~D



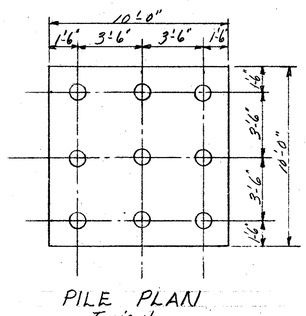
SECTION
E~E

Piers #2, #4, #6 are Sym. by 180° rotation



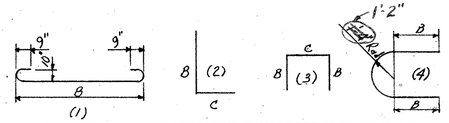
ELEVATION

12" Cast-in-Place Reinforced Concrete Piles. Typical all Footings



PILE PLAN
Typical

Location	Elevation A	Dimension B	Station ★
Pier #1	650.34	~~13'-1 1/8"~~ 16'-1½"	402+03.25
Pier #2	650.30	~~13'-0 5/8"~~ 16'-0½"	402+25.67
Pier #3	650.26	~~13'-0 3/8"~~ 16'-0½"	402+50.75
Pier #4	650.22	~~12'-11 5/8"~~ 15'-11½"	402+73.17
Pier #5	650.17	~~12'-11"~~ 15'-11"	402+98.25
Pier #6	650.06	~~12'-9 3/4"~~ 15'-9⅜"	403+20.67



REINFORCING STEEL LIST

MARK	NO per Pier	Total	LENGTH	WEIGHT	TYPE	B	C	
F801	96	576	11'-10"	18 162	1	9'-8"		
F901	24	144	6'-10"	3 344	2	6'-1"	1'-0"	
F1101	24	144	7'-6"	5226	2	6'-10"	1'-0"	
P501	48	288	7'-5"	2229	3	2'-6"	7'-8"	
P502	4	24	22'-0"	551	Str.			
P901	24	144	~~7'-0"~~	~~7834~~	Str.			9425
P1101	24	144	~~16'-0"~~	~~12 241~~	Str.			14728
P1102	8	48	8'-0"	2040	2	5'-0"	3'-9"	
P1103	4	24	40'-0"	5100	Str.			
P1104	8	48	18'-9"	4782	Str.			
P1105	4	24	15'-9"	2008	Str.			
P1106	6	36	18'-0"	3443	4	7'-0"		

Total ~~66 960~~ 71,038 (6) Piers

SPIRAL BAR

MARK	NO	SIZE	LENGTH	PITCH	NO. TURNS	CORE DIA.	WEIGHT
SP401	24	½" ø	~~13'-2"~~ 16'-2"	4½"	~~38~~ 46	32"	~~5960~~ 7248

PIER NOTES

Reinforcing Steel in all piers is identical.

★SP401 is for Pier #1 only but a slight adjustment in pitch shall be made, in order to utilize this bar for all Columns.
Pile Bearing Capacity 25 Ton/pile.

SPIRAL NOTES

The "Length" shown in the Steel List for the spiral bar is the distance from the top of the footing to the bottom of the cap. "The Nº Turns" shown is the "Length" divided by the pitch, plus 3 turns (total Nº of closed coils), expressed as the nearest whole number. Spiral Reinforcing bars shall not have deformations but shall in other respects conform to Item 5-4. 1½ Closed Coils shall be provided at the ends of each spiral unit.

Four steel channel, tee or angle spacers, weighting 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 lb. 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.

REPLACEMENT BARS

MARK	NO	LENGTH	SHAPE	
RE500	4	5'-7"	Str.	
RE600	3	5'-11"	Str.	
RE800	3	6'-6"	Str.	
RE900	2	6'-10"	Str.	
RE1000	10	7'-3"	Str.	
RE1100	8	7'-7"	Str.	
RE401	2	5'-3"	BENT	RE 401
RE700	2	6'-3"	Str.	

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. S-4.02 need not be furnished and replacement bars will not be required.

PREPARED BY
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.
FOR

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

PIER DETAILS

BRIDGE NO. LAK-2-1006
RELOC. S.R. 2 OVER S.R. 615
LAKE COUNTY
STA. 402 + 61.96

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
	DRT				2-16-59 4-1-59