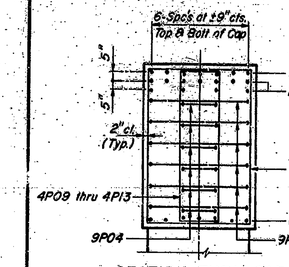
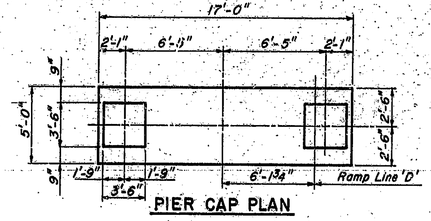
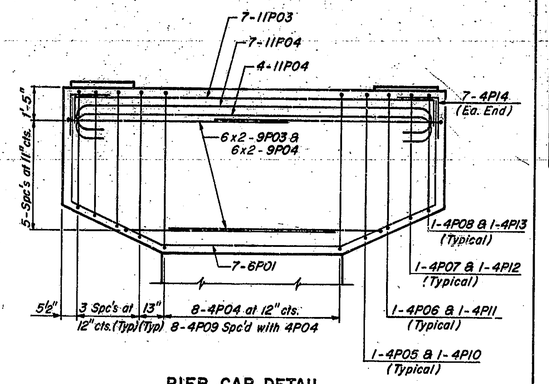


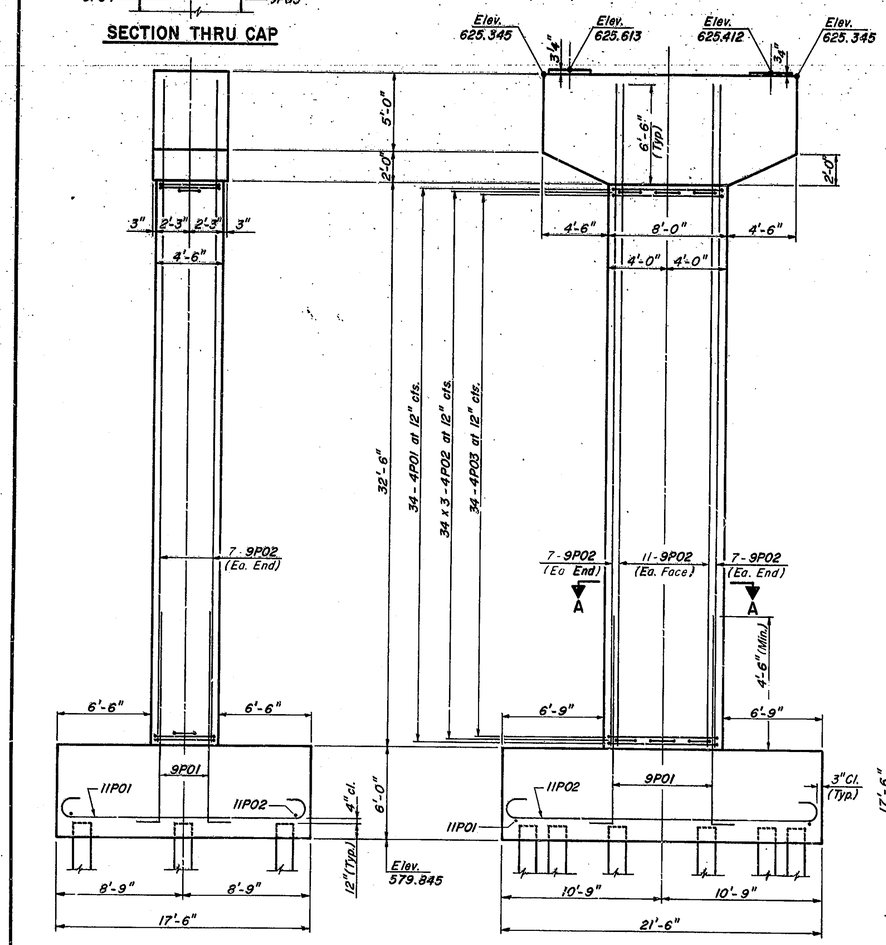
SECTION THRU CAP



PIER CAP PLAN

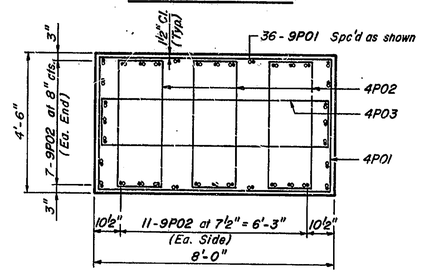


PIER CAP DETAIL

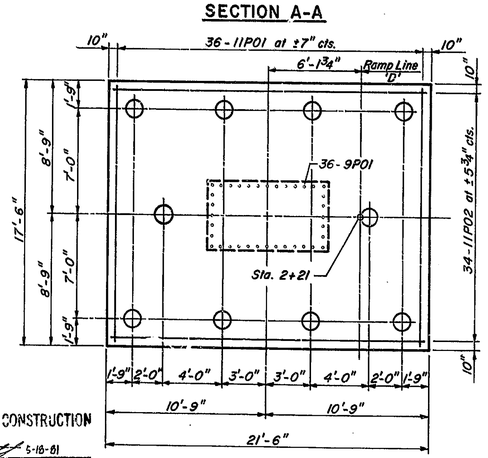


SIDE VIEW

ELEVATION
(Looking Up Station)



SECTION A-A

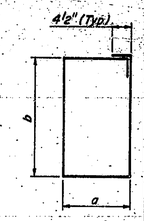


FOOTING PLAN

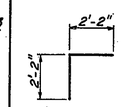
BAR BENDING DIAGRAMS

NOTES: Number preceding letter denotes bar size.
All dimension are out to out.
All bar bending pin diameters shall be in accordance with A.C.I. Standards.

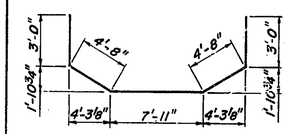
Bar	a	b
4P01	4'-3"	7'-9"
4P02	1'-6"	4'-3"
4P03	1'-7"	7'-9"
4P04	4'-8"	6'-9"
4P05	4'-8"	6'-2½"
4P06	4'-8"	5'-9"
4P07	4'-8"	5'-4"
4P08	4'-8"	4'-10½"
4P09	1'-9"	6'-8"
4P10	1'-9"	6'-2"
4P11	1'-9"	5'-8½"
4P12	1'-9"	5'-3½"
4P13	1'-9"	4'-10"



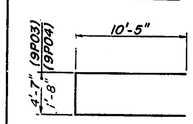
4P01 thru 4P13



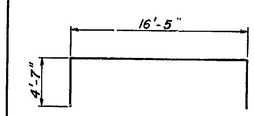
4P14



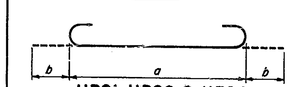
6P01



9P03 & 9P04



11P03



11P01, 11P02 & 11P04

Bar	a	b
11P01	17'-0"	1'-7"
11P02	21'-0"	1'-7"
11P04	16'-5"	4'-4"

9P01

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4P01	34	24'-9"	●	
4P02	102	12'-3"	●	
4P03	34	19'-5"	●	
4P04	8	23'-7"	●	
4P05	2	22'-6"	●	
4P06	2	21'-7"	●	
4P07	2	20'-9"	●	
4P08	2	19'-10"	●	
4P09	8	17'-7"	●	
4P10	2	16'-7"	●	
4P11	2	15'-8"	●	
4P12	2	14'-10"	●	
4P13	2	13'-11"	●	
4P14	14	4'-4"	●	
6P01	7	23'-3"	●	
9P01	36	11'-6"	●	
9P02	36	39'-0"		●
9P03	12	15'-0"	●	
9P04	12	12'-1"	●	
11P01	36	20'-2"	●	
11P02	34	24'-2"	●	
11P03	7	25'-7"	●	
11P04	11	25'-1"	●	

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	20,464
Substructure Conc.	Cu. Yd.	63.8
Footing Conc.	Cu. Yd.	93.2
High Capacity Piles	Lin. Ft.	850
Steel Pipe Sleeves	Lin. Ft.	600

NOTE: All reinforcement bars shall conform to the requirements of ASTM, grade 60.

Minimum compressive strength of both Footing and Substructure Concrete shall be 4,000 p.s.i.

PILE DATA

TYPE: High Capacity (14" Ø Steel Encased Conc.)
ESTIMATED LENGTH: 85'
NUMBER REQUIRED: 10
10 Steel Pipe Sleeves Required to Elev. 520.

APPROVED FOR CONSTRUCTION
W. B. Abbott 5-18-81
W. B. ABBOTT
Assistant Engineer of Bridge Design

DESIGNED H.B./M.M. C'K'D M.M.
DRAWN R.E.T. C'K'D G.R.
TRACED R.E.T. C'K'D G.R.

Figg and Muller Engineers Inc.
424 North Calhoun Street
Tallahassee Florida 32301

PIER 104 DETAILS

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY - RAMP:- D SECTION:-
SCALE:- N.T.S. DATE:- MARCH 27, 1981
SUBMITTED FOR APPROVAL Eugene C. Figg, Jr.
DRAWING:- OF SHEET:- 39 OF
PROJECT:- M.M. 220-1(8)
CONTRACT NO. 8-12752
BRIDGE FILE:- 912-45-2546 REX

EUGENE C. FIGG, JR. REGISTERED No. 18563 STATE OF FLORIDA PROFESSIONAL ENGINEER