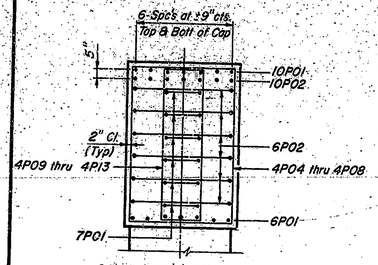
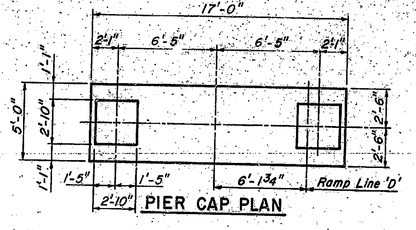
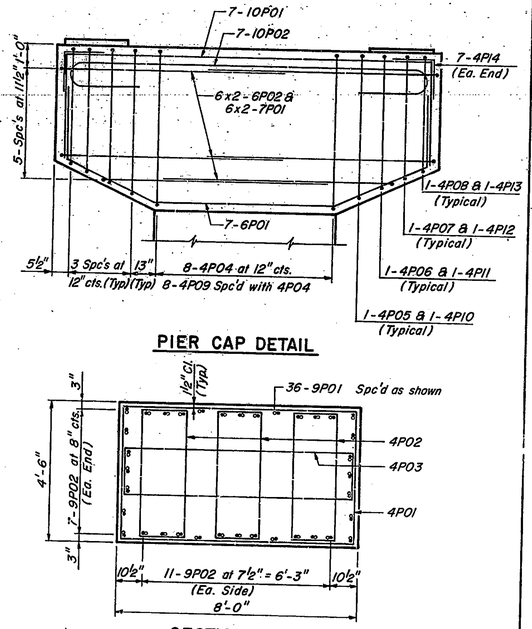


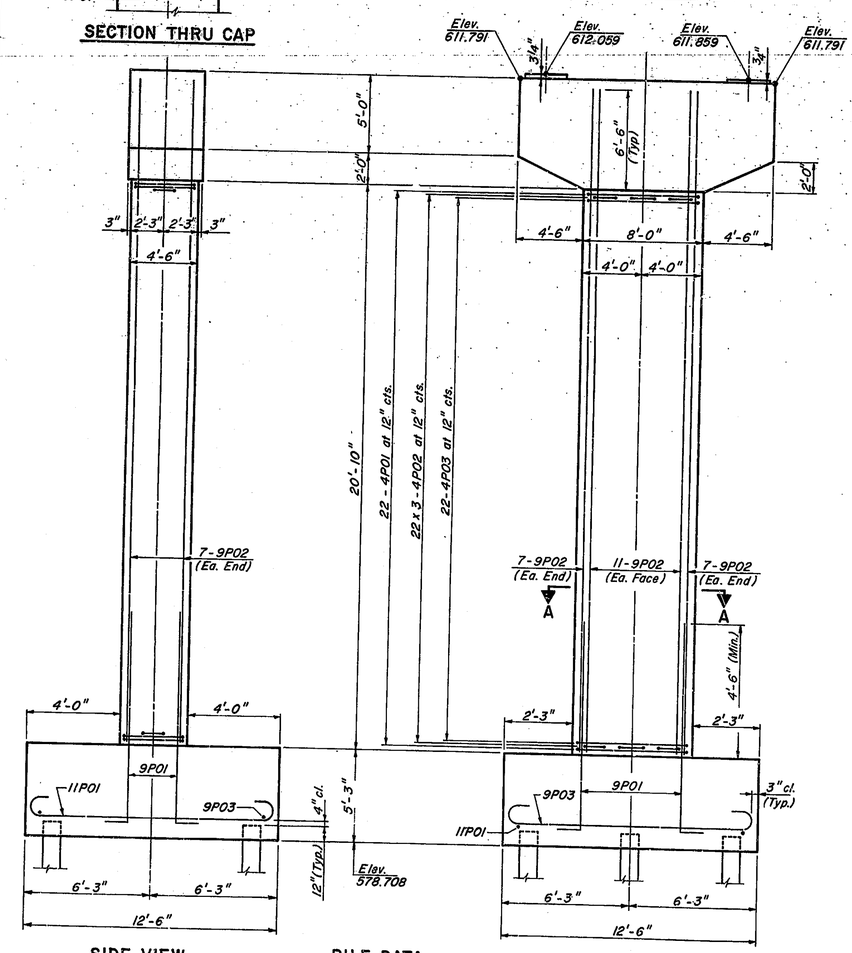
SECTION THRU CAP



PIER CAP PLAN



PIER CAP DETAIL

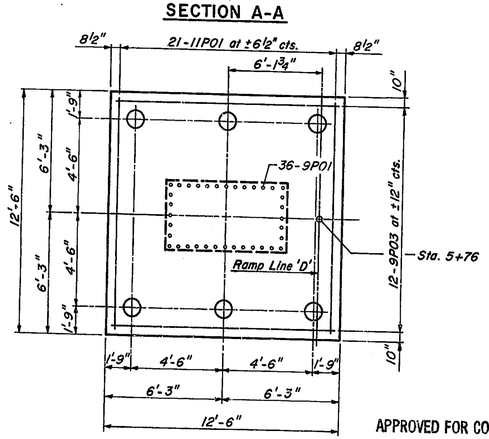


SIDE VIEW

ELEVATION
(Looking Up Station)

PILE DATA

TYPE: High Capacity (14" Ø Steel Encased Conc.)
ESTIMATED LENTGH: 85'
NUMBER REQUIRED: 6



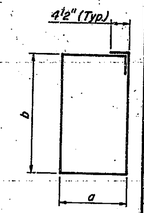
FOOTING PLAN

SECTION A-A

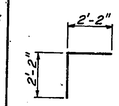
BAR BENDING DIAGRAMS

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.

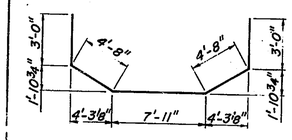
Bar	a	b
4P01	4'-3"	7'-9"
4P02	1'-6"	4'-3"
4P03	1'-7"	7'-9"
4P04	4'-8"	6'-9"
4P05	4'-8"	6'-2½"
4P06	4'-8"	5'-9"
4P07	4'-8"	5'-4"
4P08	4'-8"	4'-10½"
4P09	1'-9"	6'-6"
4P10	1'-9"	6'-2"
4P11	1'-9"	5'-8½"
4P12	1'-9"	5'-3½"
4P13	1'-9"	4'-10"



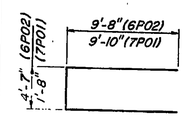
4P01 thru 4P13



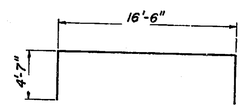
4P14



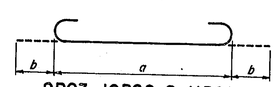
6P01



6P02 & 7P01

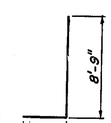


10P01



9P03, 10P02 & 11P01

Bar	a	b
9P03	12'-0"	1'-3"
10P02	16'-6"	4'-1"
11P01	12'-0"	1'-7"



9P01

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4P01	22	24'-9"	•	
4P02	66	12'-3"	•	
4P03	22	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"	•	
6P02	12	23'-11"	•	
7P01	12	21'-4"	•	
9P01	36	10'-9"	•	
9P02	36	27'-4"		•
9P03	12	14'-6"	•	
10P01	7	25'-8"	•	
10P02	7	24'-8	•	
11P01	21	15'-2"	•	

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	11,305
Substructure Conc.	Cu. Yd.	48.3
Footing Conc.	Cu. Yd.	30.1
High Capacity Piles	Lin. ft.	510

NOTES: All reinforcement bars shall conform to the requirements of ASTM Grade 60
Minimum compressive strength of both Footing and Substructure Concrete shall be 4000 psi

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.

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

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

PIER 102 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:- 37 OF
PROJECT:- MM 220-1(8)
CONTRACT NO. B-12750
BRIDGE FILE:- 912-45-2546 REX

EUGENE C. FIGG JR. REGISTERED STATE OF INDIANA PROFESSIONAL ENGINEER