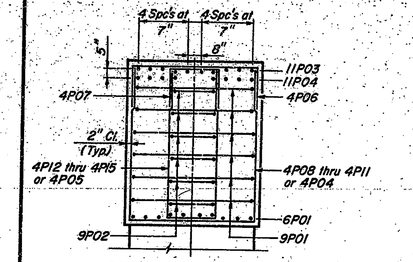
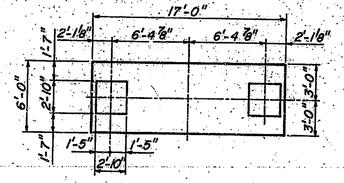
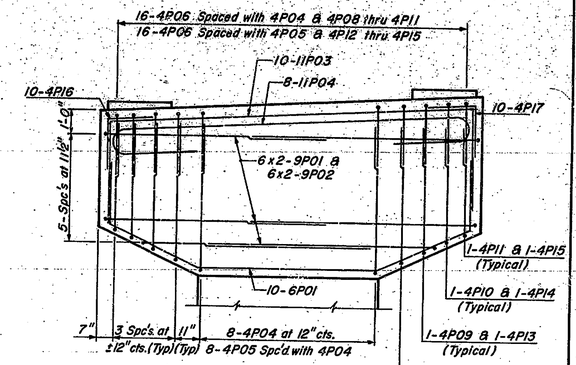


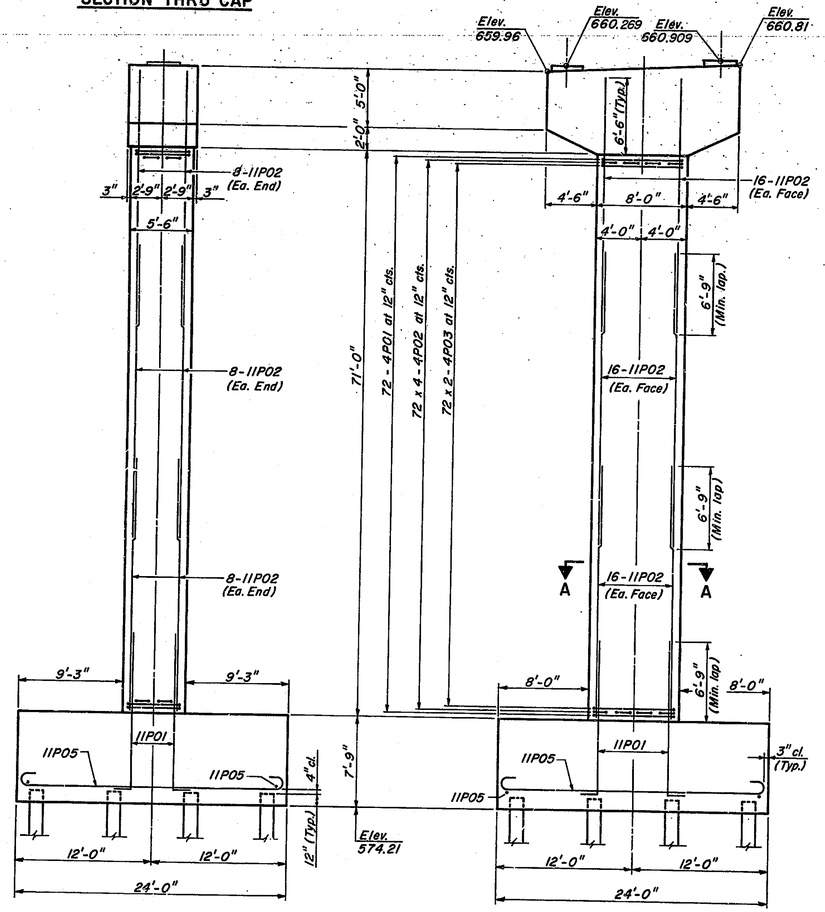
SECTION THRU CAP



PIER CAP PLAN

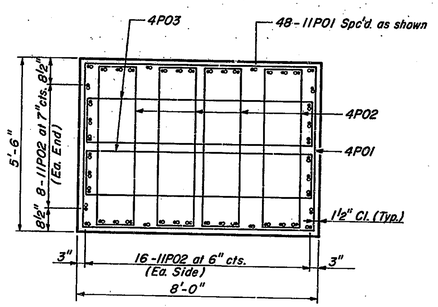


PIER CAP DETAIL

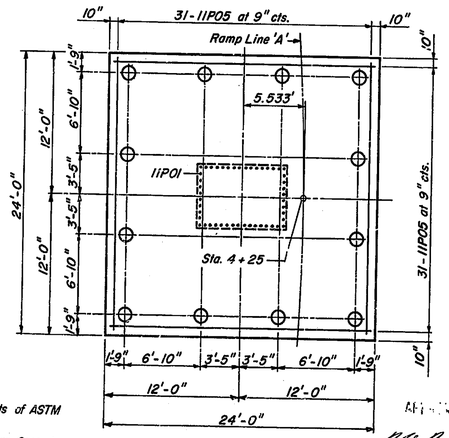


SIDE VIEW

ELEVATION
(Looking Up Station)



SECTION A-A



FOOTING PLAN

PILE DATA

TYPE: High Capacity (14" Ø Steel Encased Conc.)
ESTIMATED LENTGH: 85'
NUMBER REQUIRED: 12

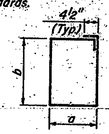
NOTE: All reinforcement bars shall conform to the requirements of ASTM Grade 60.

Compressive strength of both Footing and Substructure Concrete shall be 4,000 psi.

BAR BENDING DIAGRAMS

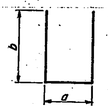
NOTES: Number preceding letter denotes bar size.
All dimension are out to out.
All bar bending pin diameters shall be in accordance with A.C.I. Standards.

Bar	a	b
4P01	5'-3"	7'-9"
4P02	1'-3"	5'-3"
4P03	1'-5"	7'-9"

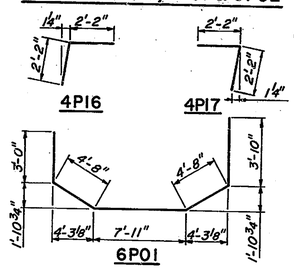


4P01 thru 4P03

Bar	a	b
4P04	5'-8"	6'-8"
4P05	2'-1"	6'-8"
4P06	5'-8"	2'-6"
4P07	2'-1"	2'-6"
4P08	5'-8"	6'-2"
4P09	5'-8"	5'-9"
4P10	5'-8"	5'-4"
4P11	5'-8"	4'-10"
4P12	2'-1"	6'-2"
4P13	2'-1"	5'-9"
4P14	2'-1"	5'-4"
4P15	2'-1"	4'-10"
9P01	5'-7"	10'-4"
9P02	2'-0"	10'-4"

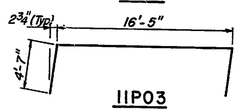


4P04 thru 4P15, 9P01 & 9P02

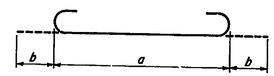


4P16 4P17

6P01

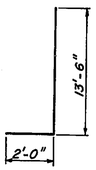


11P03



Bar	a	b
11P04	16'-5"	4'-4"
11P05	23'-6"	1'-7"

11P04 & 11P05



11P01

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4P01	72	26'-9"	●	
4P02	288	13'-9"	●	
4P03	144	19'-1"	●	
4P04	8	19'-0"	●	
4P05	8	15'-5"	●	
4P06	16	10'-8"	●	
4P07	16	7'-1"	●	
4P08	2	18'-0"	●	
4P09	2	17'-2"	●	
4P10	2	16'-4"	●	
4P11	2	15'-4"	●	
4P12	2	14'-5"	●	
4P13	2	13'-7"	●	
4P14	2	12'-9"	●	
4P15	2	11'-9"	●	
4P16	10	4'-4"	●	
4P17	10	4'-4"	●	
6P01	10	24'-1"	●	
9P01	12	26'-3"	●	
9P02	12	22'-8"	●	
11P01	48	15'-6"	●	
11P02	144	30'-6"		●
11P03	10	25'-7"	●	
11P04	8	25'-1"	●	
11P05	62	26'-8"	●	

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	47,149
Substructure Conc.	Cu. Yd.	141.8
Footing Conc.	Cu. Yd.	164.9
High Capacity Piles	Lin. ft.	1,020

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
W. B. Abbott 5-16-61
CHIEF ENGINEER

Figg and Muller Engineers Inc.
4424 Bayfront Drive
Tallahassee Florida 32301

PIER 205 DETAILS

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY - RAMP:- A SECTION:-
SCALE:- N.T.S. DATE:- MARCH 27, 1981
SUBMITTED FOR APPROVAL Eugene C. Figg Jr.
DRAWING:- OF SHEET:- 14 OF
PROJECT:- MM 220-1(8)
CONTRACT NO. B-12750
BRIDGE FILE:- 912-45-2546 RWX

REGISTERED EUGENE C. FIGG JR. 18941 STATE OF INDIANA PROFESSIONAL ENGINEER