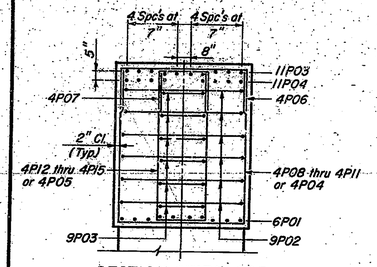
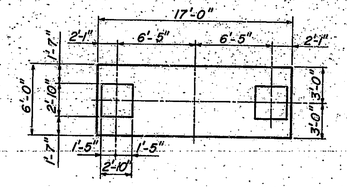
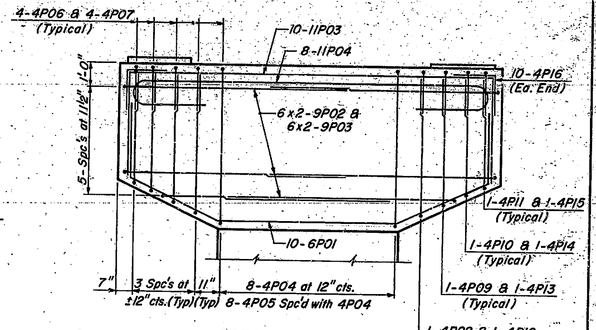
NOTES: All reinforcement bars shall conform to the requirements of ASTM Grade 60.
Minimum compressive strengh of both Substructure and Footing Concrete shall be 4000psi.



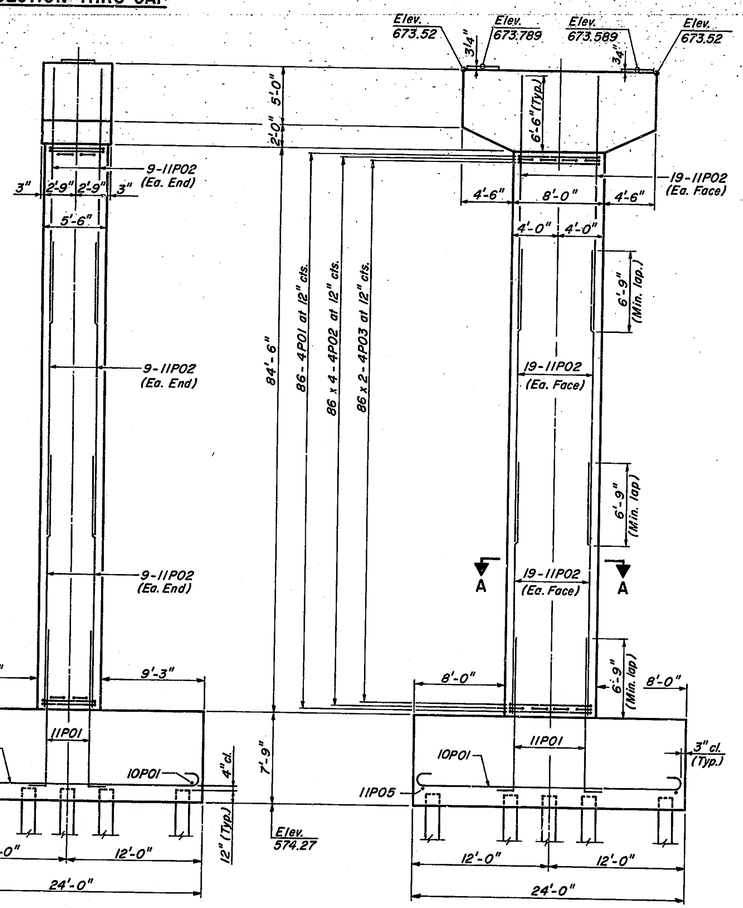
SECTION THRU CAP



PIER CAP PLAN



PIER CAP DETAIL

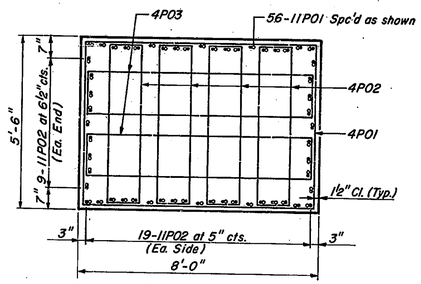


SIDE VIEW

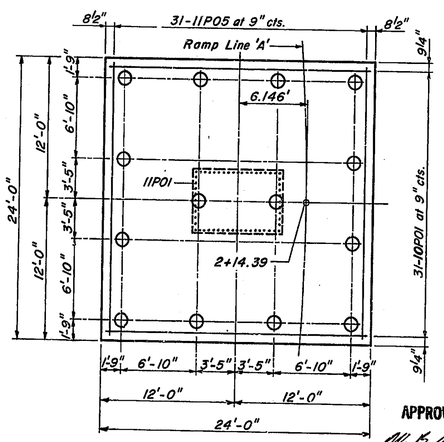
PILE DATA

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

ELEVATION
(Looking Up Station)



SECTION A-A



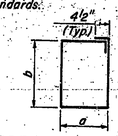
FOOTING PLAN

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

BAR BENDING DIAGRAMS

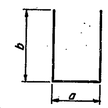
NOTES: Number preceding letter denotes bar size.
All dimension are out to out.
All bar bending pin diameters shall be in accordance with A.C.I. Standards.

Bar	a	b
4P01	5'-3"	7'-9"
4P02	1'-1"	5'-3"
4P03	1'-4"	7'-9"
4P04	5'-8"	6'-8"
4P05	2'-1"	6'-8"

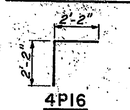


4P01 thru 4P05

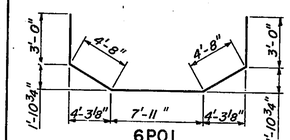
Bar	a	b
4P06	5'-8"	1'-8"
4P07	2'-1"	1'-8"
4P08	5'-8"	6'-2"
4P09	5'-8"	5'-9"
4P10	5'-8"	5'-3½"
4P11	5'-8"	4'-10"
4P12	2'-1"	6'-2"
4P13	2'-1"	5'-9"
4P14	2'-1"	5'-3½"
4P15	2'-1"	4'-10"
9P02	5'-7"	10'-4"
9P03	2'-0"	10'-4"



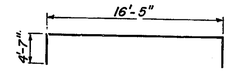
4P06 thru 4P15, 9P02 & 9P03



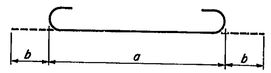
4P16



6P01



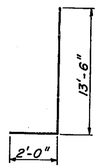
11P03



Bar	a	b
10P01	23'-6"	1'-5"
11P04	16'-5"	4'-4"
11P05	23'-6"	1'-7"

9P01, 10P01 & 11P04

11P05



11P01

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4P01	86	26'-9"	●	
4P02	344	13'-5"	●	
4P03	172	18'-11"	●	
4P04	8	25'-5"	●	
4P05	8	18'-3"	●	
4P06	8	9'-0"	●	
4P07	8	6'-5"	●	
4P08	2	18'-0"	●	
4P09	2	17'-2"	●	
4P10	2	16'-3"	●	
4P11	2	15'-4"	●	
4P12	2	14'-5"	●	
4P13	2	13'-7"	●	
4P14	2	12'-8"	●	
4P15	2	11'-9"	●	
4P16	20	4'-4"	●	
6P01	10	23'-3"	●	
9P02	12	26'-3"	●	
9P03	12	22'-8"	●	
10P01	31	26'-4"	●	
11P01	56	15'-6"	●	
11P02	168	34'-10"		●
11P03	10	25'-7"	●	
11P04	8	25'-1"	●	
11P05	31	26'-8"	●	

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	55,099
Substructure Conc.	Cu. Yd.	162.2
Footing Conc.	Cu. Yd.	164.8
High Capacity Piles	Lin. ft.	1,190

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
Fort Wayne, Indiana 46808

PIER 206 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:- 15 OF
PROJECT:- MM 220-1(8)
CONTRACT NO. 8-12750
BRIDGE FILE:- 912-45-2546 RWX

EUGENE C. FIGG, JR. REGISTERED No 18543 STATE OF INDIANA PROFESSIONAL ENGINEER