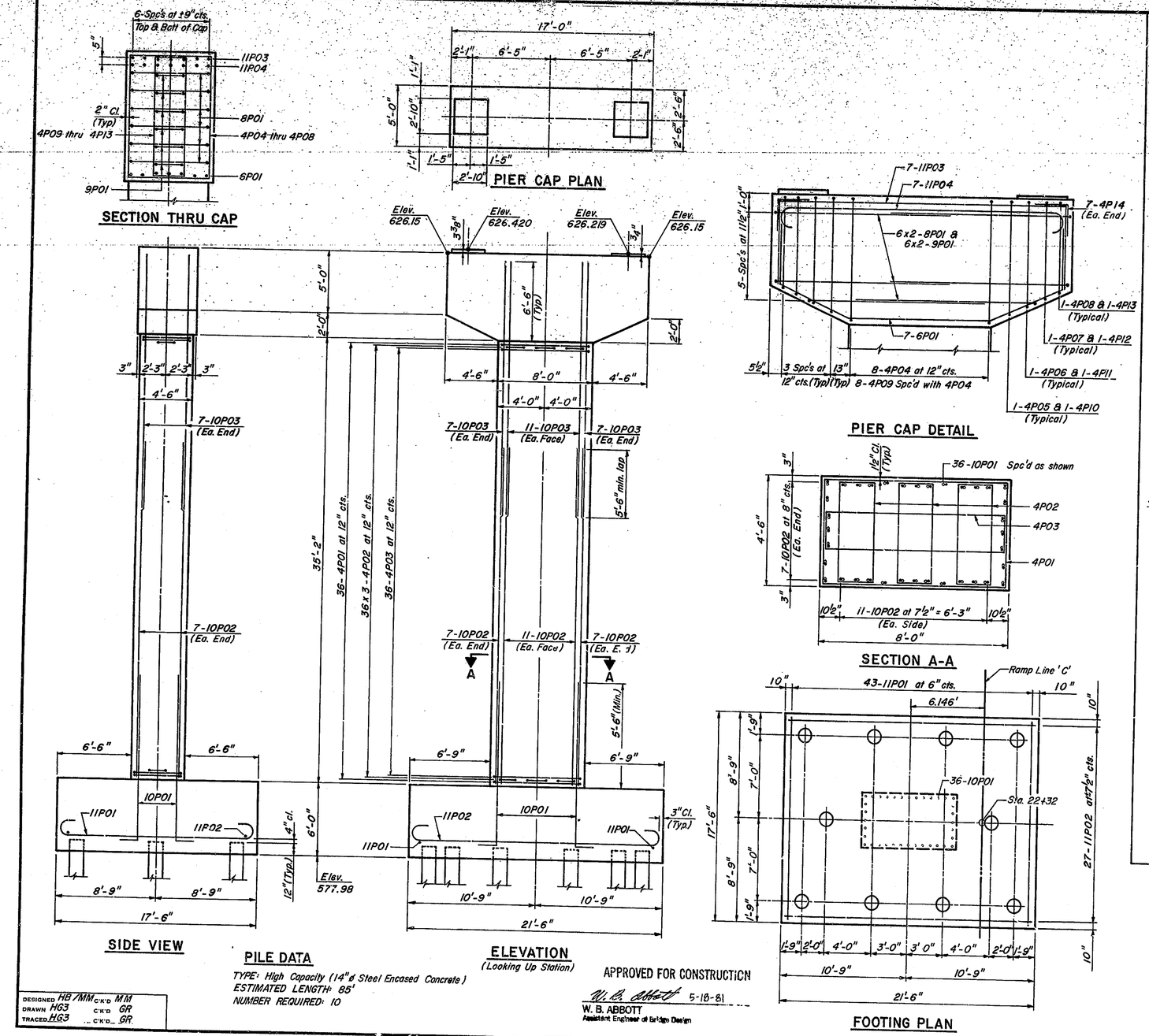
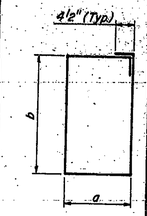


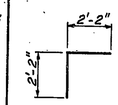
BAR BENDING DIAGRAMS

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.

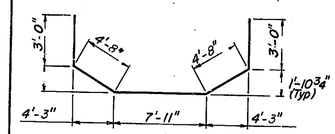
Bar	a	b
4P01	4'-3"	7'-9"
4P02	1'-6"	4'-3"
4P03	1'-7"	7'-9"
4P04	4'-8"	6'-8"
4P05	4'-8"	6'-2½"
4P06	4'-8"	5'-9"
4P07	4'-8"	5'-4"
4P08	4'-8"	4'-10½"
4P09	1'-9"	6'-8"
4P10	1'-9"	6'-2"
4P11	1'-9"	5'-9½"
4P12	1'-9"	5'-3½"
4P13	1'-9"	4'-10"



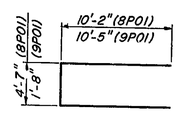
4P01 thru 4P13



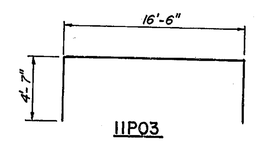
4P14



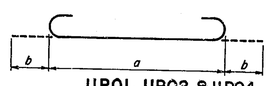
6P01



8P01 & 9P01

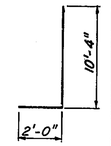


11P03



11P01, 11P02 & 11P04

Bar	a	b
11P01	17'-0"	1'-7"
11P02	21'-0"	1'-7"
11P04	16'-6"	4'-4"



10P01

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4P01	36	24'-9"	•	
4P02	108	12'-3"	•	
4P03	36	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'-2"	•	
8P01	12	24'-11	•	
9P01	12	22'-6"	•	
10P01	36	12'-4"	•	
10P02	36	32'-0"		•
10P03	36	15'-2"		•
11P01	43	20'-2"	•	
11P02	27	24'-2"	•	
11P03	7	25'-8"	•	
11P04	7	25'-2"	•	

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	23,543
Substructure Conc.	Cu. Yd.	67.3
Footing Conc.	Cu. Yd.	83.2
High Capacity Piles	Lin. ft.	850

NOTES: All reinforcement bars shall conform to the requirements of ASTM Grade 60
Minimum compresive strength of both Footing and Substructure Concrete shall be 4,000 p.s.i.

PILE DATA

TYPE: High Capacity (14"ø Steel Encased Concrete)
ESTIMATED LENGTH: 85'
NUMBER REQUIRED: 10

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

DESIGNED HB/MM C'K'D MM
DRAWN HG3 C'K'D GR
TRACED HG3 C'K'D GR

Figg and Muller Engineers Inc.
Consulting Engineers
Tallahassee Florida 32301

PIER 405 DETAILS

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY - RAMP:- C SECTION:-
SCALE:- NTS DATE:- MARCH 13, 1981
SUBMITTED FOR APPROVAL Eugene C. Figg Jr.
DRAWING:- OF SHEET:- 29 OF
PROJECT:- MM 220 - 1 (8)
CONTRACT NO. B - 12752
BRIDGE FILE:- 912 - 45 - 2546 REN

REGISTERED PROFESSIONAL ENGINEER EUGENE C. FIGG JR. No. 12543 STATE OF FLORIDA