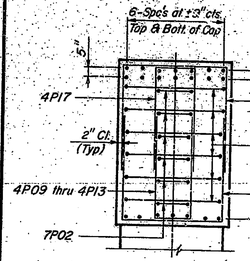
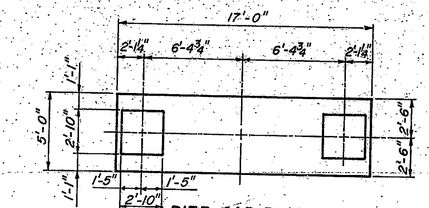
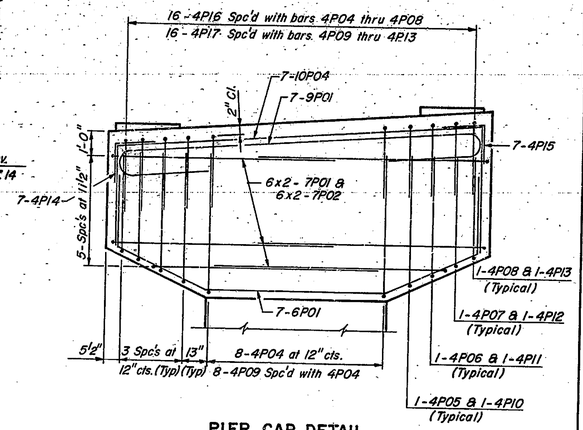


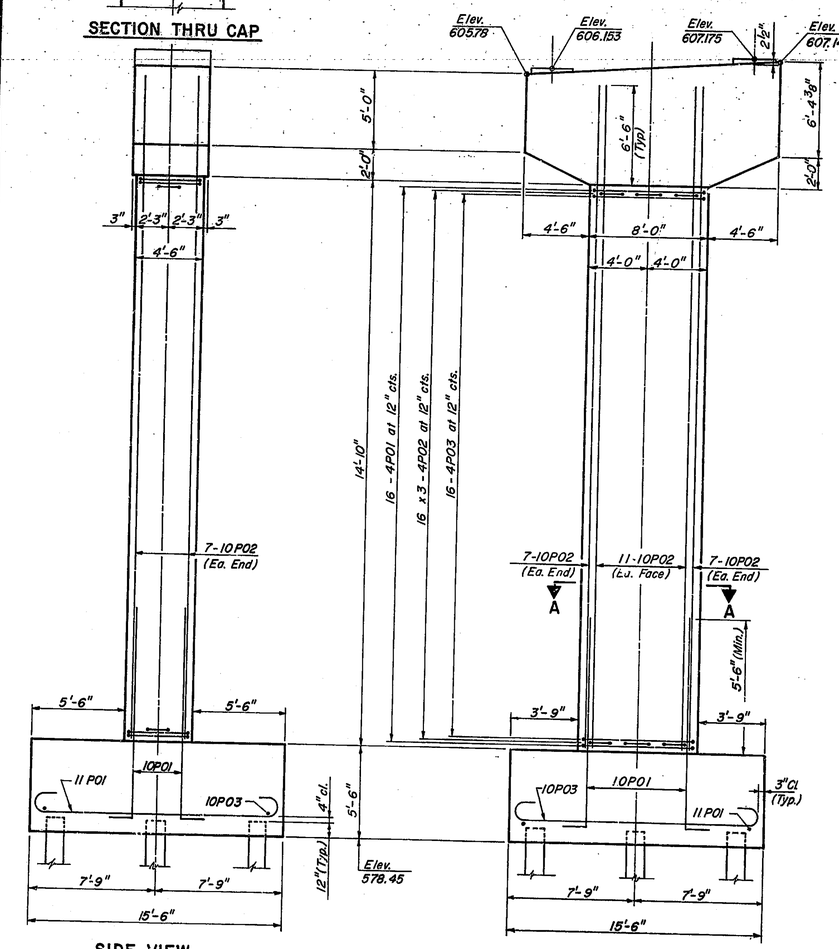
SECTION THRU CAP



PIER CAP PLAN

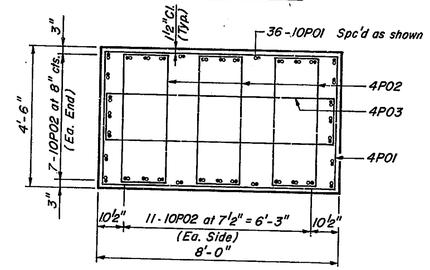


PIER CAP DETAIL

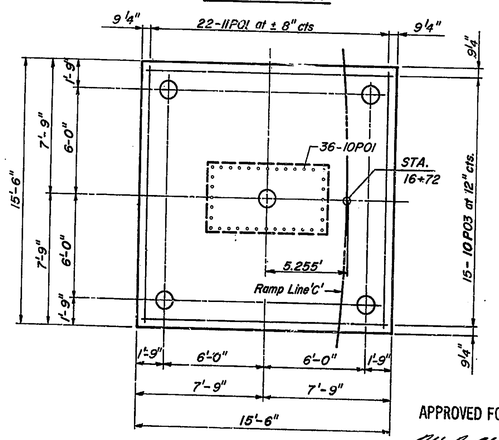


SIDE VIEW

ELEVATION
(Looking Up Station)



SECTION A-A

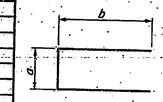


FOOTING PLAN

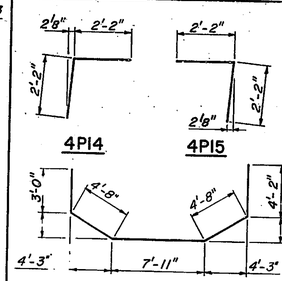
BAR BENDING DIAGRAMS

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.

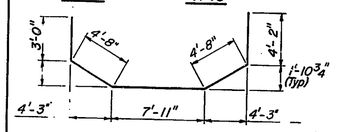
Bar	a	b
4P04	4'-8"	6'-6"
4P05	4'-8"	6'-0"
4P06	4'-8"	5'-6"
4P07	4'-8"	5'-0"
4P08	4'-8"	4'-6"
4P09	1'-9"	6'-6"
4P10	1'-9"	6'-0"
4P11	1'-9"	5'-6"
4P12	1'-9"	5'-0"
4P13	1'-9"	4'-6"
4P16	4'-8"	3'-3"
4P17	1'-9"	3'-3"
7P01	4'-7"	9'-10"
7P02	1'-8"	9'-10"



4P04 thru 4P13 & 4P16, 4P17, 6P02, 6P03

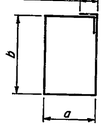


4P14 4P15

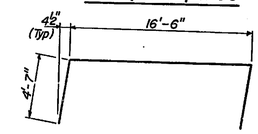


6P01

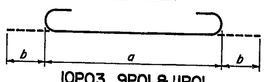
Bar	a	b
4P01	4'-3"	7'-9"
4P02	1'-6"	4'-3"
4P03	1'-7"	7'-9"



4P01, 4P02, 4P03

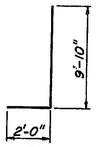


10P04



10P03, 9P01 & 11P01

Bar	a	b
10P03	15'-0"	1'-5"
11P01	15'-0"	1'-3"
9P01	16'-6"	4'-4"



10P01

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4P01	16	24'-9"	●	
4P02	48	12'-3"	●	
4P03	16	19'-5"	●	
4P04	8	17'-8"	●	
4P05	2	16'-8"	●	
4P06	2	15'-9"	●	
4P07	2	14'-8"	●	
4P08	2	13'-8"	●	
4P09	8	14'-9"	●	
4P10	2	13'-9"	●	
4P11	2	12'-9"	●	
4P12	2	11'-9"	●	
4P13	2	10'-9"	●	
4P14	7	4'-4"	●	
4P15	7	4'-4"	●	
4P16	16	11'-2"	●	
4P17	16	8'-3"	●	
6P01	7	24'-5"	●	
7P01	12	24'-3"	●	
7P02	12	21'-4"	●	
9P01	7	25'-2"	●	
10P01	36	11'-9"	●	
10P02	36	21'-4"		●
10P03	37	17'-9"	●	
10P04	7	25'-8"	●	
11P01	22	18'-2"	●	

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	14,254
Substructure Conc.	Cu. Yd.	424
Footing Conc.	Cu. Yd.	487
High Capacity Piles	Lin. ft.	425
Steel Pipe Sleeves	Lin. Ft.	297

NOTES: 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 psi.

PILE DATA

TYPE: High Capacity (14"ø Steel Encased Concrete)
ESTIMATED LENGTH: 85'
NUMBER REQUIRED: 5
5 Steel Pipe Sleeves Required to Elevation 520.

DESIGNED HB/MM C'K'D M.M.
DRAWN MD C'K'D G.R.
TRACED N.B.D. C'K'D G.R.

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

Figg and Muller Engineers Inc.
Bridge Design Branch
Tallahassee • Fort Myers

PIER 401 DETAILS

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY - RAMP:- C SECTION:-
SCALE:- N.T.S. DATE:- MARCH 13, 1981
SUBMITTED FOR APPROVAL Eugene C. Figg Jr.
DRAWING:- OF SHEET:- 25 OF
PROJECT:- MM 220-1(8)
CONTRACT NO. B-12750
BRIDGE FILE:- 912-45-2546 REN

EUGENE C. FIGG, JR. CONSULTING ENGINEER No. 18543 STATE OF FLORIDA PROFESSIONAL ENGINEER