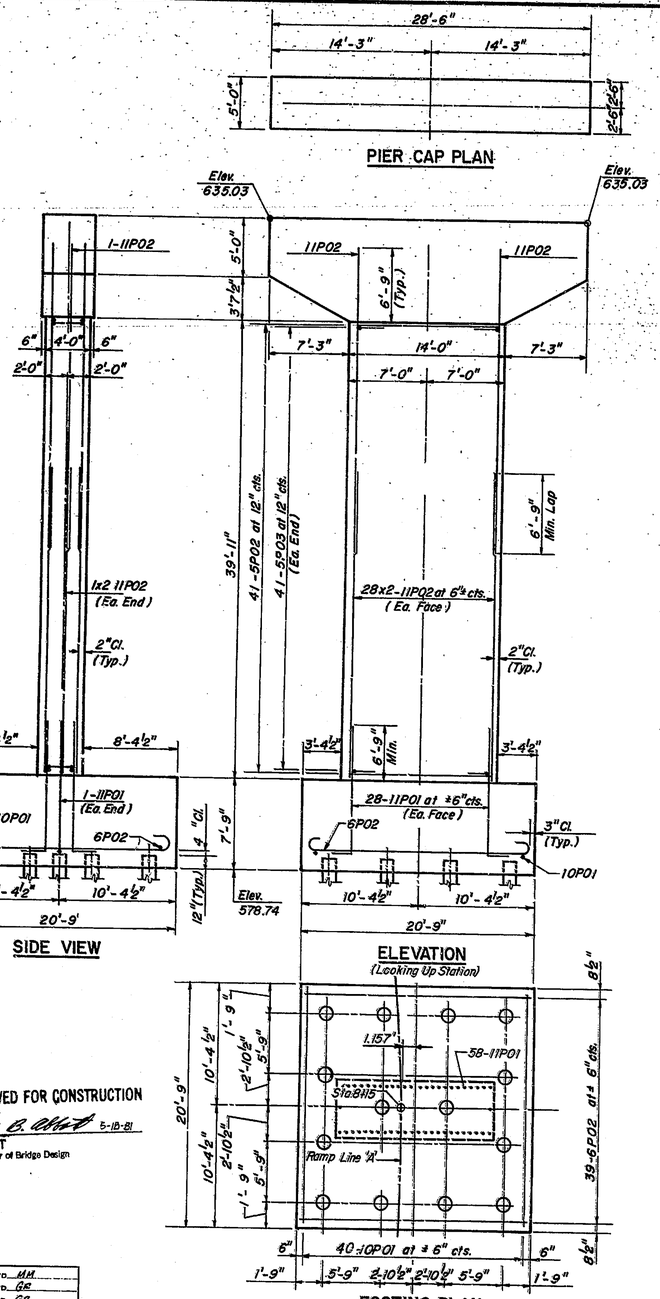
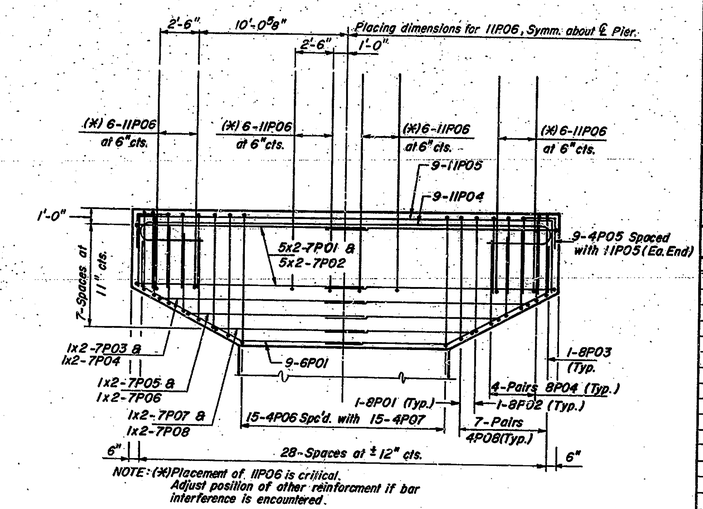



APPROVED FOR CONSTRUCTION

W. B. Abbott 5-18-81

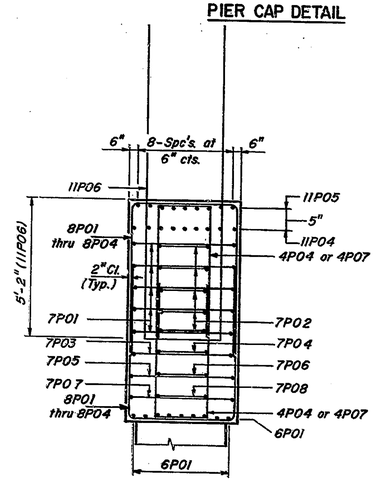
W. B. ABBOTT
Assistant Engineer of Bridge Design

| | | | |
|---|---|---|---|
| DESIGNED D.O.K. | C'K'D MM | | |
| DRAWN GR / HGS | C'K'D GR | | |
| TRACED HGS | C'K'D GR | | |




NOTE: (*) Placement of 11P06 is critical. Adjust position of other reinforcement if bar interference is encountered.

PIER CAP DETAIL




SECTION THRU CAP

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 p.s.i.

PILE DATA

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

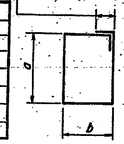
REVISION 6/3/81 REINFORCING BAR IN PIER CAP

## BAR BENDING DIAGRAMS

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

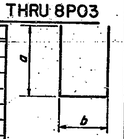
| Bar | a | b |
|---|---|---|
| 4P06 | 8'-3½" | 4'-8" |
| 4P07 | 8'-3½" | 2'-3" |
| 8P01 | 7'-11" | 4'-8" |
| 8P02 | 7'-5" | 4'-8" |
| 8P03 | 4'-11" | 4'-8" |

4½" (4P06, 4P07)
1'-4" (8P01, 8P03)

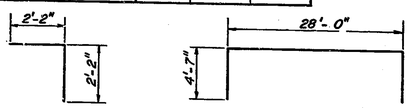



4P06, 4P07 & 8P01 THRU 8P03

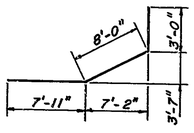
| Bar | a | b |
|---|---|---|
| 4P08 | 4'-11" | 2'-3" |
| 5P03 | 2'-0" | 3'-5" |
| 7P01 | 15'-6" | 4'-6" |
| 7P02 | 15'-6" | 2'-2" |
| 7P03 | 13'-8" | 4'-6" |
| 7P04 | 13'-8" | 2'-2" |
| 7P05 | 11'-10" | 4'-6" |
| 7P06 | 11'-10" | 2'-2" |
| 7P07 | 10'-0" | 4'-6" |
| 7P08 | 10'-0" | 2'-2" |
| 8P04 | 5'-2" | 4'-8" |



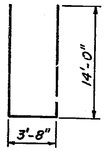

4P08, 5P03, 7P01-7P08 & 8P04



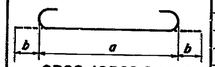

4P05 11P05




6P01

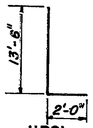



11P06




6P02, 10P02 & 11P04

| Bar | a | b |
|---|---|---|
| 6P02 | 20'-3" | 8" |
| 10P01 | 20'-3" | 1'-6" |
| 11P04 | 28'-0" | 4'-4" |




11P01

## BILL OF MATERIAL

| Bar | No. | Length | Bent | Str. |
|---|---|---|---|---|
| 4P05 | 18 | 4'-4" | • | |
| 4P06 | 15 | 26'-8" | • | |
| 4P07 | 15 | 21'-10" | • | |
| 4P08 | 28 | 12'-1" | • | |
| 5P02 | 82 | 13'-8" | | • |
| 5P03 | 82 | 7'-5" | • | |
| 6P01 | 18 | 18'-11" | • | |
| 6P02 | 39 | 21'-7" | • | |
| 7P01 | 10 | 35'-6" | • | |
| 7P02 | 10 | 33'-2" | • | |
| 7P03 | 2 | 31'-10" | • | |
| 7P04 | 2 | 29'-6" | • | |
| 7P05 | 2 | 28'-2" | • | |
| 7P06 | 2 | 25'-10" | • | |
| 7P07 | 2 | 24'-6" | • | |
| 7P08 | 2 | 22'-2" | • | |
| 8P01 | 2 | 27'-10" | • | |
| 8P02 | 2 | 26'-10" | • | |
| 8P03 | 2 | 21'-10" | • | |
| 8P04 | 16 | 15'-0" | • | |
| 10P01 | 40 | 23'-3" | • | |
| 11P01 | 58 | 15'-6" | • | |
| 11P02 | 116 | 26'-9" | | • |
| 11P04 | 9 | 36'-8" | • | |
| 11P05 | 9 | 37'-2" | • | |
| 11P06 | 24 | 31'-8" | • | |

## ESTIMATED QUANTITIES

| Item | Unit | Total |
|---|---|---|
| Reinforcing Steel | Lb. | 38,410 |
| Substructure Conc. | Cu. Yd. | 123.4 |
| Footing Conc. | Cu. Yd. | 123.0 |
| High Capacity Piles | Lin. Ft. | 1,190 |

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

PIER 203 DETAILS

# INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY - RAMP:- A SECTION:-
SCALE:- N.T.S. DATE:- MARCH 27, 1980
SUBMITTED FOR APPROVAL Eugene C. Figg Jr.
DRAWING:- OF SHEET:- 12 OF
PROJECT:- MM 220-1 (R)
CONTRACT NO. B-12752
BRIDGE FILE:- 912-45-2546 RWX

EUGENE C. FIGG JR. REGISTERED No 1849 STATE OF FLORIDA PROFESSIONAL ENGINEER