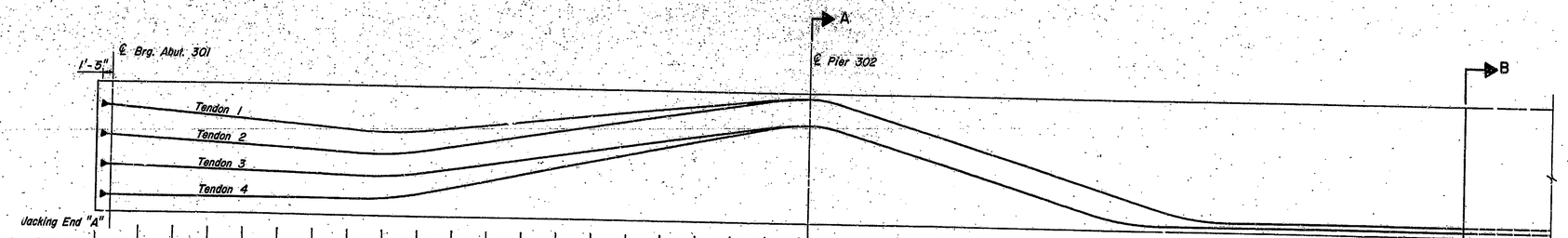
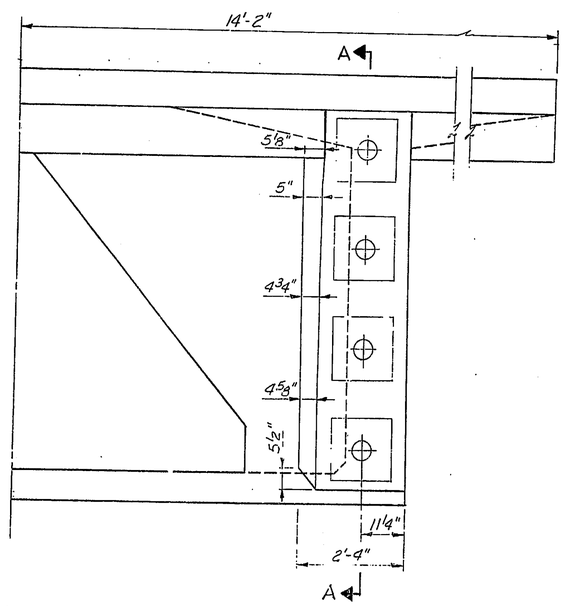



| LINE "B" REFERENCE ABSCISSA | 0.000 | 6.124 | 11.124 | 16.124 | 21.124 | 26.124 | 31.124 | 36.124 | 41.124 | 46.124 | 51.124 | 56.124 | 61.124 | 66.124 | 71.124 | 76.124 | 81.124 | 86.124 | 91.124 | 96.124 | 101.124 | 106.124 | 111.124 | 116.124 | 121.124 | 126.124 | 131.124 | 136.124 | 141.124 | 146.124 | 151.124 | 156.124 | 161.124 | 166.124 | 171.124 | 176.124 | 181.124 | 186.124 | 191.124 | 196.124 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *TENDON 1- 19K6 DISTANCE /BOTT. SLAB | | 7.019 | 6.808 | 6.597 | 6.385 | 6.174 | 5.963 | 5.751 | 5.616 | 5.711 | 5.965 | 6.225 | 6.484 | 6.744 | 7.003 | 7.263 | 7.522 | 7.782 | 8.041 | 8.300 | 8.454 | 8.164 | 7.418 | 6.672 | 5.926 | 5.179 | 4.433 | 3.687 | 2.941 | 2.194 | 1.448 | 0.817 | 0.550 | 0.542 | 0.542 | 0.542 | 0.542 | 0.542 | 0.542 | 0.542 |
| TENDON 2- 19K6 DISTANCE /BOTT. SLAB | | 5.013 | 4.872 | 4.732 | 4.591 | 4.451 | 4.310 | 4.169 | 4.114 | 4.319 | 4.704 | 5.095 | 5.486 | 5.876 | 6.267 | 6.658 | 7.048 | 7.439 | 7.830 | 8.220 | 8.451 | 8.164 | 7.418 | 6.672 | 5.926 | 5.179 | 4.433 | 3.687 | 2.941 | 2.194 | 1.448 | 0.817 | 0.550 | 0.542 | 0.542 | 0.542 | 0.542 | 0.542 | 0.542 | 0.542 |
| TENDON 3- 19K6 DISTANCE /BOTT. SLAB | | 3.006 | 2.936 | 2.866 | 2.795 | 2.725 | 2.654 | 2.584 | 2.583 | 2.793 | 3.150 | 3.512 | 3.874 | 4.235 | 4.597 | 4.958 | 5.320 | 5.682 | 6.043 | 6.405 | 6.619 | 6.331 | 5.586 | 4.840 | 4.095 | 3.349 | 2.604 | 1.858 | 1.113 | 0.483 | 0.217 | 0.208 | 0.208 | 0.208 | 0.208 | 0.208 | 0.208 | 0.208 | 0.208 | 0.208 |
| TENDON 4- 19K6 DISTANCE /BOTT. SLAB | | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.079 | 1.399 | 1.887 | 2.380 | 2.873 | 3.366 | 3.859 | 4.353 | 4.846 | 5.339 | 5.832 | 6.325 | 6.616 | 6.331 | 5.586 | 4.840 | 4.095 | 3.349 | 2.604 | 1.858 | 1.113 | 0.483 | 0.217 | 0.208 | 0.208 | 0.208 | 0.208 | 0.208 | 0.208 | 0.208 | 0.208 | 0.208 |

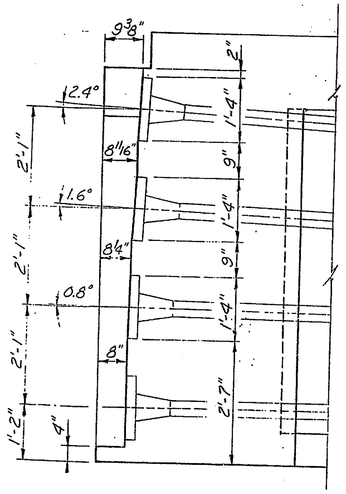
## TENDON PROFILE ELEVATION

(Scale: Vert. 1/4"=1'-0", Horiz. 1/8"=1'-0")

*Distances given are from bottom of slab to bottom of tendon duct.




HALF CROSS SECTION AT ABUTMENT DIAPHRAGM




SECTION A-A

| TENDON NO. | ELONGATION JACKING END A | ELONGATION JACKING END B |
|---|---|---|
| 1 | 2.300' | 0.255' |
| 2 | 2.154' | 0.228' |
| 3 | 2.154' | 0.226' |
| 4 | 2.025' | 0.182' |

| STRESSING SEQUENCE | TENDON NO. | NO. OF TENDONS | TYPE | JACKING FORCE | ELONGATION | LENGTH |
|---|---|---|---|---|---|---|
| 1st | 1 | 2 | 19K6 | 828 | 2.555' | 380.23' |
| 2nd | 2 | 2 | 19K6 | 828 | 2.382' | 354.20' |
| 3rd | 3 | 2 | 19K6 | 828 | 2.380' | 354.159' |
| 4th | 4 | 2 | 19K6 | 828 | 2.207' | 330.226' |
| 5th | 6 | 2 | 19K6 | 850 | 0.941' | 134.106' |
| 6th | 5 | 2 | 12K6 | 542 | 0.765' | 107.898' |
| 7th | 7 | 2 | 19K6 | 861 | 0.409' | 56.469' |
| 8th | 8 | 2 | 19K6 | 861 | 0.412' | 56.650' |

Notes:

These tendon lengths and elongations are from anchor plate to anchor plate.
Dimensions are on grade.
Tendon elevations are perpendicular to grade.
Tendons are stressed from jacking end as indicated by ⟶
Elongations are based on a steel modulus of elasticity of $26.5 \times 10^6$ p.s.i.

LEGEND

Dead End
Jacking End

11-12-81

Figg and Muller Engineers Inc.
Consulting Engineers
Tallahassee, Florida 32301

POST-TENSIONING LAYOUT - UNIT I

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY - RAMP:- B SECTION:-
SCALE:- AS NOTED DATE:- July 29, 1981
SUBMITTED FOR APPROVAL Eugene C. Figg, Jr.
DRAWING:- OF SHEET:- 313 OF
PROJECT:- MM 220-1(8)
CONTRACT NO. B-12752
BRIDGE FILE:- 912-45-2546 RWN

EUGENE C. FIGG, JR. REGISTERED PROFESSIONAL ENGINEER 12543 STATE OF INDIANA