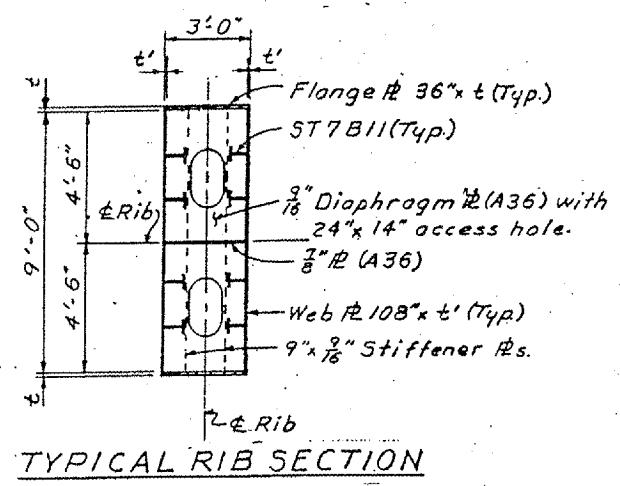
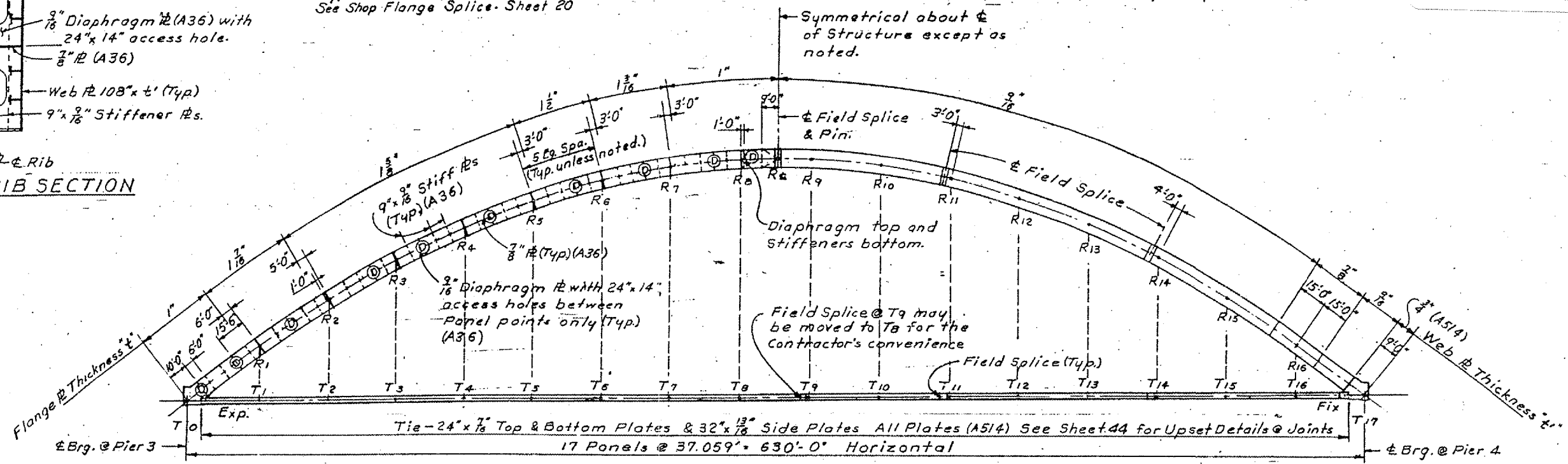


CONTRACT: 98990
 ROUTE: INTERSTATE 24
 SECTION: (64-3B) I-6
 COUNTY: MASSAC. IL; McCracken, KY
 SHEET 31 OF 99
 FOR INFORMATION ONLY



Half Rib Elevation Showing Flange Thickness and Length Plus Diaphragm and Stiffener Location. (Typical each Half.) See Shop Flange Splice - Sheet 20

Half Rib Elevation Showing Web Plate Thickness and Field Splice. Location (Typical Each Half Except for Field Splice @ T9) See Shop Web Splice - Sheet 20



MEMBER FORCES

| Member | Joint | Dead Load-Steel | | Dead Load-Conc. | | Future Wear Surf. | | Live Load | | Impact | | Total (DL, FWS, LL, I) | | 10% (DL + FWS) | | Design Total-10% | |
|--------|-------|-----------------|----------------|-----------------|----------------|-------------------|----------------|-------------|----------------|-------------|----------------|------------------------|----------------|----------------|----------------|------------------|----------------|
| | | Axial Force | Bending Moment | Axial Force | Bending Moment | Axial Force | Bending Moment | Axial Force | Bending Moment | Axial Force | Bending Moment | Axial Force | Bending Moment | Axial Force | Bending Moment | Axial Force | Bending Moment |
| To-T17 | To | + 1,064 | - 136 | + 1,715 | - 178 | + 234 | - 33 | + 469 | - 78 | + 31 | - 5 | + 3,513 | - 430 | + 301 | - 35 | + 3,212 | - 395 |
| To-T17 | T17 | + 1,064 | + 136 | + 1,715 | + 178 | + 234 | + 33 | + 469 | + 78 | + 31 | + 5 | + 3,513 | + 430 | + 301 | + 35 | + 3,212 | + 395 |
| To-R1 | To | - 1,337 | + 136 | - 2,155 | + 178 | - 295 | + 33 | - 371 | - 1968 | - 35 | - 185 | - 4,193 | - 1806 | - 379 | + 35 | - 3,814 | - 1,806 |
| To-R1 | R1 | - 1,337 | - 744 | - 2,155 | - 2,051 | - 295 | + 137 | - 189 | + 52,220 | - 27 | + 7,520 | - 4,003 | + 57,082 | - 379 | - 266 | - 3,624 | + 57,082 |
| R1-R2 | R1 | - 1,277 | + 744 | - 2,050 | + 2,051 | - 280 | - 137 | - 183 | - 52,220 | - 26 | - 7,520 | - 3,816 | - 57,082 | - 361 | + 266 | - 3,455 | - 57,082 |
| R1-R2 | R2 | - 1,277 | + 2,396 | - 2,050 | + 4,370 | - 280 | + 187 | - 204 | + 86,301 | - 29 | + 12,427 | - 3,840 | + 96,941 | - 361 | - 179 | - 3,479 | + 96,941 |
| R2-R3 | R2 | - 1,221 | - 2,396 | - 1,969 | + 4,370 | - 269 | - 187 | - 163 | - 86,301 | - 24 | - 12,427 | - 3,646 | - 96,941 | - 346 | + 179 | - 3,300 | - 96,941 |
| R2-R3 | R3 | - 1,221 | + 4,388 | - 1,969 | + 3,058 | - 269 | + 704 | - 228 | + 104,658 | - 30 | + 13,606 | - 3,717 | + 120,298 | - 346 | + 203 | - 3,371 | + 120,095 |
| R3-R4 | R3 | - 1,175 | - 4,388 | - 1,897 | + 3,058 | - 259 | - 704 | - 192 | - 104,658 | - 25 | - 13,606 | - 3,548 | - 120,298 | - 333 | - 203 | - 3,215 | - 120,095 |
| R3-R4 | R4 | - 1,175 | + 3,342 | - 1,897 | - 7,552 | - 259 | + 1,160 | - 209 | + 109,671 | - 27 | + 14,257 | - 3,567 | + 126,878 | - 333 | + 295 | - 3,234 | + 126,583 |
| R4-R5 | R4 | - 1,136 | - 3,342 | - 1,897 | + 7,552 | - 251 | - 1,160 | - 181 | - 109,671 | - 24 | - 14,257 | - 3,429 | - 126,878 | - 322 | - 295 | - 3,107 | - 126,583 |
| R4-R5 | R5 | - 1,136 | + 1,763 | - 1,837 | + 1,307 | - 251 | + 1,779 | - 240 | + 103,015 | - 29 | + 12,259 | - 3,493 | + 120,123 | - 322 | + 485 | - 3,171 | + 119,638 |
| R5-R6 | R5 | - 1,105 | - 1,763 | - 1,779 | - 1,307 | - 243 | - 1,779 | - 218 | - 103,015 | - 26 | - 12,259 | - 3,371 | - 120,123 | - 313 | - 485 | - 3,058 | - 119,638 |
| R5-R6 | R6 | - 1,105 | + 3,599 | - 1,779 | + 438 | - 243 | + 1,806 | - 229 | + 86,265 | - 27 | + 10,266 | - 3,383 | + 102,374 | - 313 | + 584 | - 3,070 | + 101,790 |
| R6-R7 | R6 | - 1,082 | - 3,599 | - 1,750 | + 438 | - 239 | - 1,806 | - 218 | - 86,265 | - 26 | - 10,266 | - 3,315 | - 102,374 | - 307 | - 584 | - 3,008 | - 101,790 |
| R6-R7 | R7 | - 1,082 | + 2,397 | - 1,750 | + 3,886 | - 239 | + 3,394 | - 265 | + 66,942 | - 32 | + 7,966 | - 3,368 | + 79,451 | - 307 | + 454 | - 3,061 | + 78,997 |
| R7-R8 | R7 | - 1,069 | - 1,737 | - 1,723 | - 3,886 | - 235 | - 3,394 | - 259 | - 66,942 | - 31 | - 7,966 | - 3,317 | - 79,451 | - 303 | - 454 | - 3,014 | - 78,997 |
| R7-R8 | R8 | - 1,069 | + 1,737 | - 1,723 | - 3,886 | - 235 | - 3,394 | - 259 | - 66,942 | - 31 | - 7,966 | - 3,317 | - 79,451 | - 303 | - 454 | - 3,014 | - 78,997 |
| R7-R8 | R8 | - 1,069 | + 1,737 | - 1,723 | - 3,886 | - 235 | - 3,394 | - 259 | - 66,942 | - 31 | - 7,966 | - 3,317 | - 79,451 | - 303 | - 454 | - 3,014 | - 78,997 |
| R7-R8 | R8 | - 1,069 | + 1,737 | - 1,723 | - 3,886 | - 235 | - 3,394 | - 259 | - 66,942 | - 31 | - 7,966 | - 3,317 | - 79,451 | - 303 | - 454 | - 3,014 | - 78,997 |
| R7-R8 | R8 | - 1,069 | + 1,737 | - 1,723 | - 3,886 | - 235 | - 3,394 | - 259 | - 66,942 | - 31 | - 7,966 | - 3,317 | - 79,451 | - 303 | - 454 | - 3,014 | - 78,997 |
| R8-R9 | R8 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65,487 |
| R8-R9 | R9 | - 1,064 | + 888 | - 1,715 | - 3,143 | - 234 | - 2,345 | - 223 | - 52,840 | - 36 | - 8,507 | - 3,288 | - 65,947 | - 303 | + 460 | - 2,985 | + 65 |