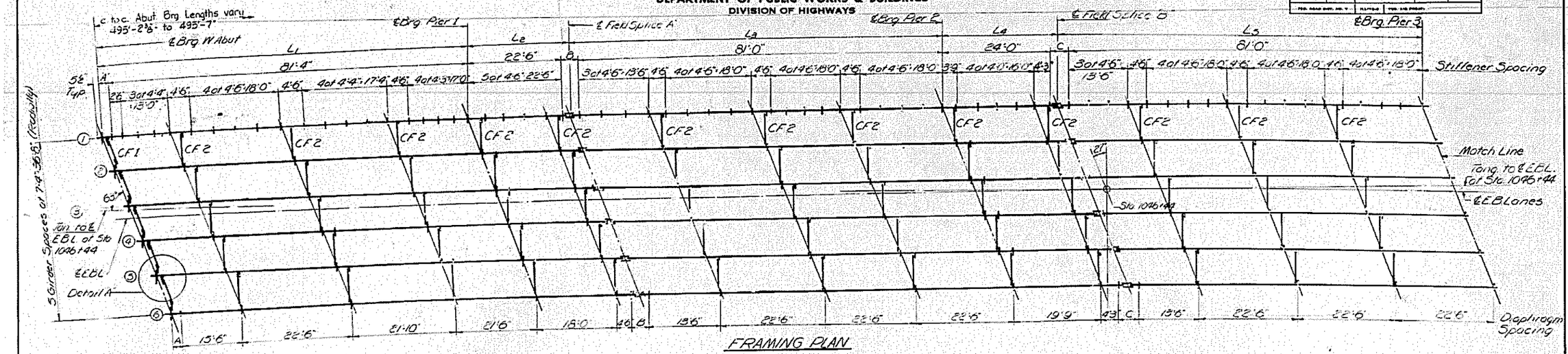
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

| STATE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| F.A.I. 64 | 82-8B | ST. CLAIR | 107 | 37 |

SHEET NO. 5
16 SHEETS




## GIRDER LENGTHS & DIMENSIONS

| Girder | Radius | Span 1 L1 | Span 2 L2 | Span 2 L3 | Span 3 L4 | Span 3 L5 | Span 4 L6 | Span 4 L7 | Span 5 L8 | Span 5 L9 | A | B | C | D | E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 12249.73 | 85°10⅜" | 24°-4⅜" | 85°-9⅜" | 25°-8⅜" | 82°-11⅜" | 25°-7" | 83°-6¾" | 23°-11⅝" | 61°-4⅜" | 2'-6⅜" | 4'-8" | 3'-7⅜" | 4'-1⅜" | 4'-4⅝" |
| 2 | 12242.42 | 85°-10⅜" | 24°-4⅜" | 85°-9⅜" | 25°-8⅜" | 82°-11⅝" | 25°-7⅜" | 83°-6⅜" | 23°-11⅝" | 61°-4⅜" | 2'-6⅜" | 4'-8⅜" | 3'-8" | 4'-2" | 4'-4⅝" |
| 3 | 12235.09 | 85°-11" | 24°-4⅝" | 85°-9⅜" | 25°-8⅜" | 82°-11⅝" | 25°-7⅜" | 83°-7⅛" | 23°-11⅝" | 61°-5" | 2'-7" | 4'-8⅜" | 3'-8⅜" | 4'-2⅛" | 4'-4⅞" |
| 4 | 12227.75 | 85°-11⅜" | 24°-4⅝" | 85°-10" | 25°-8⅜" | 82°-11⅞" | 25°-7⅜" | 83°-7⅛" | 23°-11⅝" | 61°-5⅜" | 2'-7⅛" | 4'-8⅝" | 3'-8⅝" | 4'-2⅝" | 4'-4⅝" |
| 5 | 12220.42 | 85°-11⅜" | 24°-4⅝" | 85°-10⅛" | 25°-8⅜" | 82°-11⅞" | 25°-7⅜" | 83°-7⅛" | 23°-11⅝" | 61°-5⅜" | 2'-7⅛" | 4'-8⅝" | 3'-8⅝" | 4'-3⅛" | 4'-4⅝" |
| 6 | 12213.09 | 85°-11⅜" | 24°-4⅞" | 85°-10⅜" | 25°-8⅜" | 83°-0" | 25°-7⅜" | 83°-7⅛" | 23°-11⅝" | 61°-5⅜" | 2'-7⅛" | 4'-9" | 3'-8⅝" | 4'-2⅝" | 4'-4⅝" |

## OFFSET DIMENSIONS ~ GIRDER LAYOUT

| Girder | ℄ Brg W.A. x | ℄ Brg W.A. y | ℄ Brg P1 x | ℄ Brg P1 y | ℄ Splice A x | ℄ Splice A y | ℄ Brg P2 x | ℄ Brg P2 y | ℄ Splice B x | ℄ Splice B y | ℄ Brg P3 x | ℄ Brg P3 y | ℄ Splice C x | ℄ Splice C y | ℄ Brg P4 x | ℄ Brg P4 y | ℄ Splice D x | ℄ Splice D y | ℄ Brg E.A. x | ℄ Brg E.A. y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1113 | 2189 | 453 | 890 | 316 | 620 | .032 | .063 | .003 | .007 | .089 | 194 | 186 | 366 | 660 | 1297 | 650 | 1668 | 1445 | 2837 |
| 2 | 1080 | 2120 | 431 | 846 | 297 | 584 | .026 | .052 | .002 | .004 | .110 | 216 | .201 | 395 | 689 | 1353 | 682 | 1792 | 1487 | 2919 |
| 3 | 1046 | 2053 | 409 | 804 | 279 | 548 | .021 | .042 | .000 | .001 | 122 | 239 | 217 | 426 | 718 | 1410 | 916 | 1797 | 1534 | 3012 |
| 4 | 1012 | 1987 | 388 | 762 | 262 | 514 | .016 | .032 | 0 | 0 | 134 | 264 | 233 | 459 | 748 | 1469 | 949 | 1864 | 1594 | 3091 |
| 5 | 978 | 1922 | 367 | 721 | 245 | 481 | .012 | .024 | 0 | 0 | 147 | 289 | 250 | 492 | 779 | 1529 | 984 | 1931 | 1649 | 3178 |
| 6 | 947 | 1858 | 347 | 682 | 228 | 449 | .009 | .017 | 0 | 0 | .161 | 316 | 268 | 527 | 810 | 1590 | 1019 | 2000 | 1704 | 3287 |

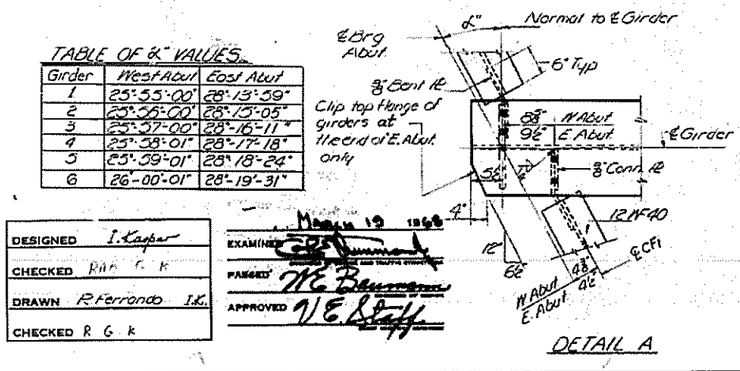
Note: All dimensions are in ft.

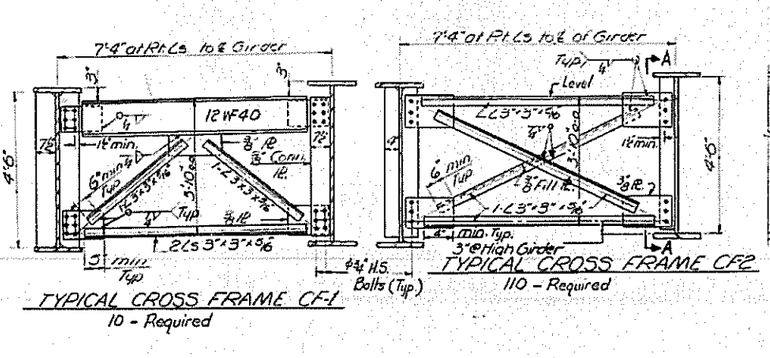
## ELEVATIONS ~ TOP OF WEB
(For Fabrication only)

| Girder | ℄ Brg W.Abut | ℄ Brg. Pier 1 | ℄ Splice A | ℄ Brg Pier 2 | ℄ Splice B | ℄ Brg Pier 3 | ℄ Splice C | ℄ Brg Pier 4 | ℄ Splice D | ℄ Brg E.Abt. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 437.25 | 437.47 | 437.55 | 437.72 | 437.77 | 437.82 | 437.84 | 437.77 | 437.72 | 437.72 |
| 2 | 437.19 | 437.38 | 437.48 | 437.63 | 437.68 | 437.73 | 437.72 | 437.68 | 437.66 | 437.62 |
| 3 | 437.06 | 437.30 | 437.38 | 437.53 | 437.60 | 437.65 | 437.67 | 437.60 | 437.58 | 437.52 |
| 4 | 436.98 | 437.22 | 437.30 | 437.47 | 437.52 | 437.57 | 437.58 | 437.51 | 437.49 | 437.42 |
| 5 | 436.89 | 437.13 | 437.21 | 437.38 | 437.43 | 437.48 | 437.49 | 437.42 | 437.40 | 437.32 |
| 6 | 436.81 | 437.05 | 437.13 | 437.30 | 437.36 | 437.42 | 437.41 | 437.34 | 437.32 | 437.22 |

## TABLE OF ℄ VALUES

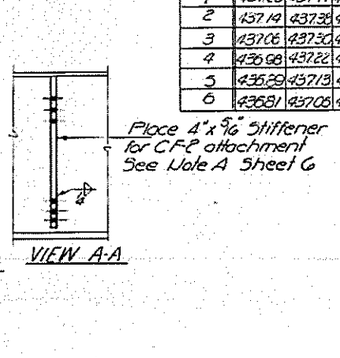
| Girder | West Abut | East Abut |
|---|---|---|
| 1 | 25°-55'-00" | 28°-13'-59" |
| 2 | 25°-56'-00" | 28°-13'-05" |
| 3 | 25°-57'-00" | 28°-16'-11" |
| 4 | 25°-58'-01" | 28°-17'-18" |
| 5 | 25°-59'-01" | 28°-18'-24" |
| 6 | 26°-00'-01" | 28°-19'-31" |










| | |
|---|---|
| DESIGNED | I. Kaspar |
| CHECKED | R G K |
| DRAWN | R Ferrando I.K. |
| CHECKED | R G K |

EXAMINED March 19 1968
PASSED
APPROVED

STRUCTURAL STEEL
FAI RT 64 SEC. 82-8B (EBL)
ST CLAIR COUNTY
STA 1046+44

| FILE NAME = $FILE$ | USER NAME = $USER$ | DESIGNED - | REVISED - |
|---|---|---|---|
| | | DRAWN - | REVISED - |
| | PLOT SCALE = $SCALE$ | CHECKED - | REVISED - |
| | PLOT DATE = $DATE$ | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING
STRUCTURE NO. 082-0187
SCALE: N/A | SHEET NO. __ OF __ SHEETS | STA. _____ TO STA. _____

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 64 | 82-8B-P | ST CLAIR | 29 | 15 |
| | | CONTRACT NO. 76G65 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |