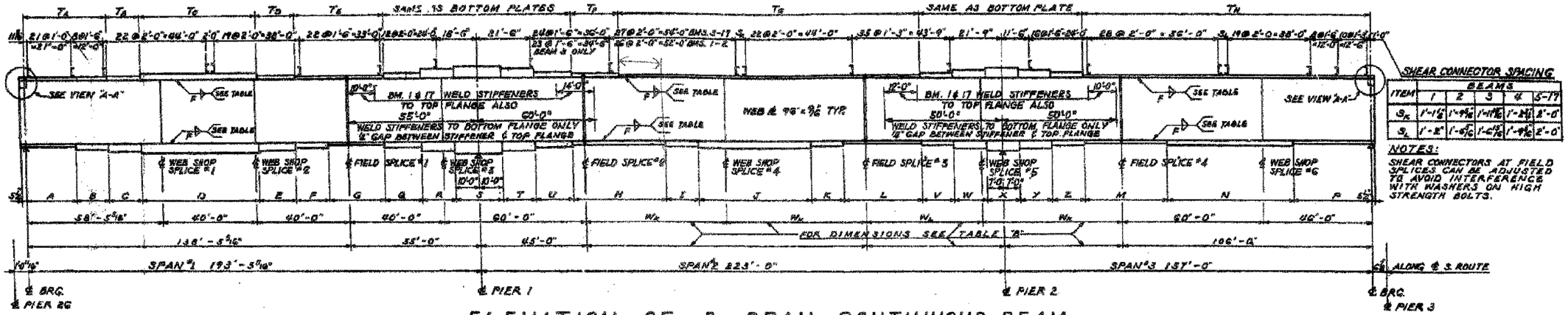



## ELEVATION OF 3 SPAN CONTINUOUS BEAM

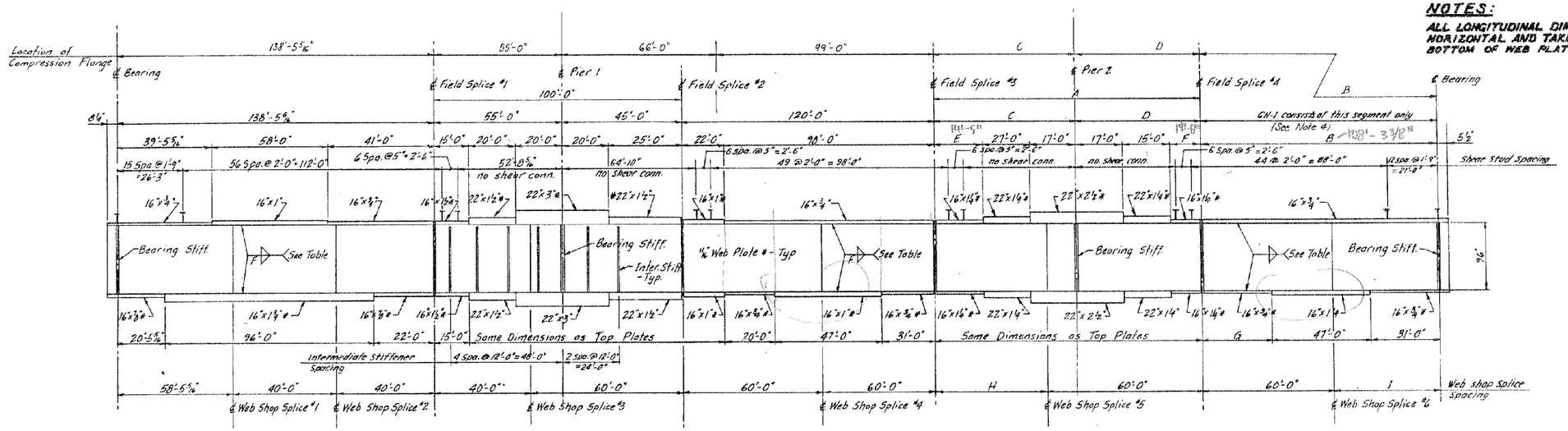
### SHEAR CONNECTOR SPACING

| ITEM | BEAMS 1 | 2 | 3 | 4 | 5-17 |
|---|---|---|---|---|---|
| $S_x$ | 1'-1 1/2" | 1'-9 5/16" | 1'-11 15/16" | 1'-2 1/2" | 2'-0" |
| $S_L$ | 1'-2" | 1'-6 7/16" | 1'-8 15/16" | 1'-9 5/16" | 2'-0" |

NOTES:
SHEAR CONNECTORS AT FIELD SPLICES CAN BE ADJUSTED TO AVOID INTERFERENCE WITH WASHERS ON HIGH STRENGTH BOLTS.

## TABLE FOR 3 SPAN CONTINUOUS BEAMS

| BEAM NUMBER | | BOTTOM FLANGE PLATES A | B | C | D | E | F | G | H | I | J | K | L | M | N | P | TOP AND BOTTOM FLANGE PLATES Q | R | S | T | U | V | W | X | Y | Z | TOP FLANGE PLATES TA | TB | TC | TD | TE | TF | TG | TH | TABLE "B" $F_{x1}$ $F_{x2}$ $F_{x3}$ $F_{x4}$ $F_{x5}$ $F_{x6}$ | $F_{y1}$ $F_{y2}$ $F_{y3}$ $F_{y4}$ $F_{y5}$ $F_{y6}$ | $W_{x1}$ $W_{x2}$ $W_{x3}$ | $W_{y1}$ $W_{y2}$ $W_{y3}$ | BEAM NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1, 9, 17 | SIZE | 16"x1 5/16" | 16"x1 1/2" | 16"x2 1/4" | 16"x2 1/4" | 16"x2 1/4" | 16"x1 5/16" | 16"x1 1/16" | 16"x1 1/16" | 16"x1 5/16" | 16"x1 5/16" | 16"x1 5/16" | 16"x1 5/16" | 16"x1 15/16" | 16"x1 15/16" | 16"x1 11/16" | 22"x1 1/2" | 22"x1 3/4" | 22"x1 1/4" | 22"x1 3/4" | 22"x1 3/4" | 22"x1 1/2" | 22"x1 1/2" | 22"x2 1/4" | 22"x1 3/4" | 22"x2 1/4" | 22"x1 1/8" | 16"x1 1/16" | 16"x1" | 16"x1 1/2" | 16"x1 15/16" | 16"x1 1/2" | 16"x1 1/2" | 16"x1 1/2" | 16"x1 5/16" | — | — | — | — | — | — | SIZE | 1, 9, 17 |
| 1 | LENGTH | 7'-5 3/16" | 14'-0" | 14'-0" | 14'-0" | 16'-0" | 16'-0" | 23'-0" | 47'-0" | 56'-0" | 14'-0" | 28'-1 5/8" | 28'-2" | 63'-0" | 28'-0" | 18'-0" | 18'-0" | 20'-0" | 14'-0" | 16'-0" | 14'-0" | 14'-0" | 14'-0" | 16'-0" | 14'-0" | 16'-0" | 17'-5 7/16" | 19'-0" | 76'-0" | 39'-0" | 20'-0" | 125'-1 1/8" | 119'-2" | 118'-0 3/8" | 57'-0 5/8" | 30'-2" | 69'-0 1/8" | 48'-2 5/8" | LENGTH | 1 |
| 9, 17 | LENGTH | " | " | " | " | " | " | " | 98'-0" | " | " | 30'-0" | 27'-0" | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | 128'-0" | 126'-0" | 120'-0" | 58'-0" | 51'-0" | 60'-0" | 49'-0" | LENGTH | 9, 19 |
| 7, 8, 10, 15, 16 | SIZE | 16"x1 5/16" | 16"x1 1/2" | 16"x2" | 16"x2 1/4" | 16"x2" | 16"x1 15/16" | 16"x1 1/16" | 16"x1" | 16"x1 1/16" | 16"x1 1/16" | 16"x1 1/16" | 16"x1 1/16" | 16"x1 15/16" | 16"x1 15/16" | 16"x1 11/16" | 22"x1 1/2" | 22"x1 3/4" | 22"x2 1/4" | 22"x2 1/2" | 22"x1 1/2" | 22"x1 5/8" | 22"x1 1/2" | 22"x2" | 22"x1 1/2" | 22"x2" | 22"x1 1/8" | 16"x1 11/16" | 16"x1 1/16" | 16"x1" | 16"x1 1/16" | 16"x1" | 16"x1" | 16"x1 1/16" | 16"x1 5/16" | — | — | — | — | — | — | SIZE | 7, 8, 10, 15, 16 |
| | LENGTH | 19'-5 3/16" | 14'-0" | 14'-0" | 53'-0" | 16'-0" | 14'-0" | 21'-0" | 39'-0" | 14'-0" | 53'-0" | 14'-0" | 28'-0" | 30'-0" | 62'-0" | 39'-0" | 18'-0" | 18'-0" | 20'-0" | 14'-0" | 16'-0" | 14'-0" | 14'-0" | 14'-0" | 14'-0" | 14'-0" | 14'-0" | 33'-5 7/16" | 69'-0" | 41'-0" | 35'-0" | 20'-0" | 125'-1 1/8" | 122'-0" | 120'-0" | 58'-0" | 51'-0" | 60'-0" | 49'-0" | LENGTH | 7, 8, 10, 15, 16 |
| 6, 11, 12, 13, 14 | SIZE | 16"x1 5/16" | 16"x1 1/2" | 16"x1 1/2" | 16"x1 1/2" | 16"x1 1/2" | 16"x1 1/2" | 16"x1" | 16"x1 1/16" | 16"x1" | 16"x1 1/16" | 16"x1 1/16" | 16"x1 1/16" | 16"x1 15/16" | 16"x1 15/16" | 16"x1 11/16" | 22"x1 5/8" | 22"x1 3/4" | 22"x2" | 22"x1 3/4" | 22"x1 3/4" | 22"x1 5/8" | 22"x1" | 22"x1 1/2" | 22"x2" | 22"x2" | 22"x1 1/8" | 16"x1 1/16" | 16"x1" | 16"x1 1/16" | 16"x1" | 16"x1" | 16"x1" | 16"x1" | 16"x1 5/16" | — | — | — | — | — | — | SIZE | 6, 11, 12, 13, 14 |
| | LENGTH | 21'-5 3/16" | 14'-0" | 14'-0" | 53'-0" | 16'-0" | 14'-0" | 26'-0" | 39'-0" | 14'-0" | 48'-0" | 14'-0" | 33'-0" | 35'-0" | 64'-0" | 38'-0" | 16'-0" | 16'-0" | 20'-0" | 16'-0" | 16'-0" | 16'-0" | 14'-0" | 14'-0" | 14'-0" | 14'-0" | 16'-0" | 35'-5 7/16" | 72'-0" | 50'-0" | 19'-0" | 28'-0" | 125'-1 1/8" | 122'-0" | 120'-0" | 58'-0" | 51'-0" | 60'-0" | 49'-0" | LENGTH | 6, 11, 12, 13, 14 |
| 2, 3, 4, 5 | SIZE | 16"x1 5/16" | 16"x1 1/2" | 16"x1 1/2" | 16"x1 1/2" | 16"x1 1/2" | 16"x1 5/16" | 16"x1 5/16" | 16"x1 5/16" | 16"x1 5/16" | 16"x1 5/16" | 16"x1 5/16" | 16"x1 5/16" | 16"x1 15/16" | 16"x1 15/16" | 16"x1 11/16" | 22"x1 1/4" | 22"x1 5/8" | 22"x1 3/4" | 22"x1 3/4" | 22"x1 1/4" | 22"x1 1/4" | 22"x1 1/4" | 22"x1 3/4" | 22"x1 3/4" | 22"x1 3/4" | 22"x1 1/8" | 16"x1 11/16" | 16"x1" | 16"x1 11/16" | 16"x1 5/16" | 16"x1 5/16" | 16"x1 5/16" | 16"x1 5/16" | 16"x1 5/16" | — | — | — | — | — | — | SIZE | 2, 3, 4, 5 |
| 2 | LENGTH | 23'-5 3/16" | 20'-0" | 62'-0" | 18'-0" | 30'-0" | 41'-3" | 18'-0" | 38'-0" | 18'-0" | 38'-6 1/2" | 29'-6 1/2" | 62'-0" | 30'-0" | | | 14'-0" | 18'-0" | 20'-0" | 16'-0" | 16'-0" | 14'-0" | 14'-0" | 16'-0" | 14'-0" | 14'-0" | | 49'-5 7/16" | 98'-0" | 58'-0" | | 165'-9 1/2" | 121'-0 1/2" | 118'-0" | 57'-3 1/2" | 30'-2 1/2" | 69'-0" | 48'-2 1/2" | LENGTH | 2 |
| 3 | LENGTH | " | " | " | " | " | 41'-6" | " | " | " | 38'-11 1/2" | 29'-6 1/2" | " | " | | | " | " | " | " | " | " | " | " | " | " | | " | " | " | | 166'-5 1/2" | 121'-6 1/2" | 118'-11 1/2" | 57'-7 1/2" | 30'-6 1/2" | 69'-4 1/2" | 48'-6" | LENGTH | 3 |
| 4 | LENGTH | " | " | " | " | " | 41'-9" | " | " | " | 35'-5 1/2" | 29'-9 1/2" | " | " | | | " | " | " | " | " | " | " | " | " | " | | " | " | " | | 167'-2 1/2" | 121'-9 1/2" | 119'-5 1/2" | 57'-9" | 30'-9 1/2" | 69'-8 1/2" | 48'-9 1/2" | LENGTH | 4 |
| 5 | LENGTH | " | " | " | " | " | 42'-0" | " | " | " | 36'-0" | 30'-0" | " | " | | | " | " | " | " | " | " | " | " | " | " | | " | " | " | | 168'-0" | 122'-0" | 120'-0" | 58'-0" | 51'-0" | 60'-0" | 49'-0" | LENGTH | 5 |




NOTES:
ALL LONGITUDINAL DIMENSIONS ARE HORIZONTAL AND TAKEN ALONG THE BOTTOM OF WEB PLATE.

## GIRDER ELEVATION - GN-1, GN-2, GN-3 & GN-4

| GIRDER | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| GN-1 | — | 106'-0 7/16" | — | — | — | — | 28'-0 11/16" | — | 46'-0 9/16" |
| GN-2 | 109'-0" | 107'-7 3/16" | 57'-11 1/8" | 51'-0 7/8" | 13'-11 3/16" | 19'-0 3/16" | 29'-7 7/16" | 49'-0" | 47'-7 5/16" |
| GN-3 | 109'-10 7/16" | 108'-3 3/8" | 58'-4 7/8" | 51'-5 3/4" | 14'-4 7/16" | 19'-5 1/4" | 30'-3 5/8" | 49'-10 1/4" | 48'-3 3/8" |
| GN-4 | 110'-9 3/4" | 108'-11 3/4" | 58'-10 5/8" | 51'-11 1/16" | 14'-10 1/16" | 19'-11 1/16" | 30'-11 3/4" | 50'-9 1/2" | 48'-11 3/4" |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME = | USER NAME = aread | DESIGNED - AMR | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GIRDER ELEVATIONS AND SCHEDULE – LOCATION 1 STRUCTURE NO. 016-1116 | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN - AMR | REVISED - | | | 90/94 | 2011-057-BP | COOK | 98 | 12 |
| | PLOT SCALE = 2.0000 ' / IN. | CHECKED - JMH | REVISED - | | | | | CONTRACT NO. 60P73 | | |
| | PLOT DATE = 3/29/2012 | DATE - MARCH, 2012 | REVISED - | | SCALE: NTS / SHEET NO. 6 OF 15 SHEETS / STA. / TO STA. | | | ILLINOIS | FED. AID PROJECT | |

SFILE1