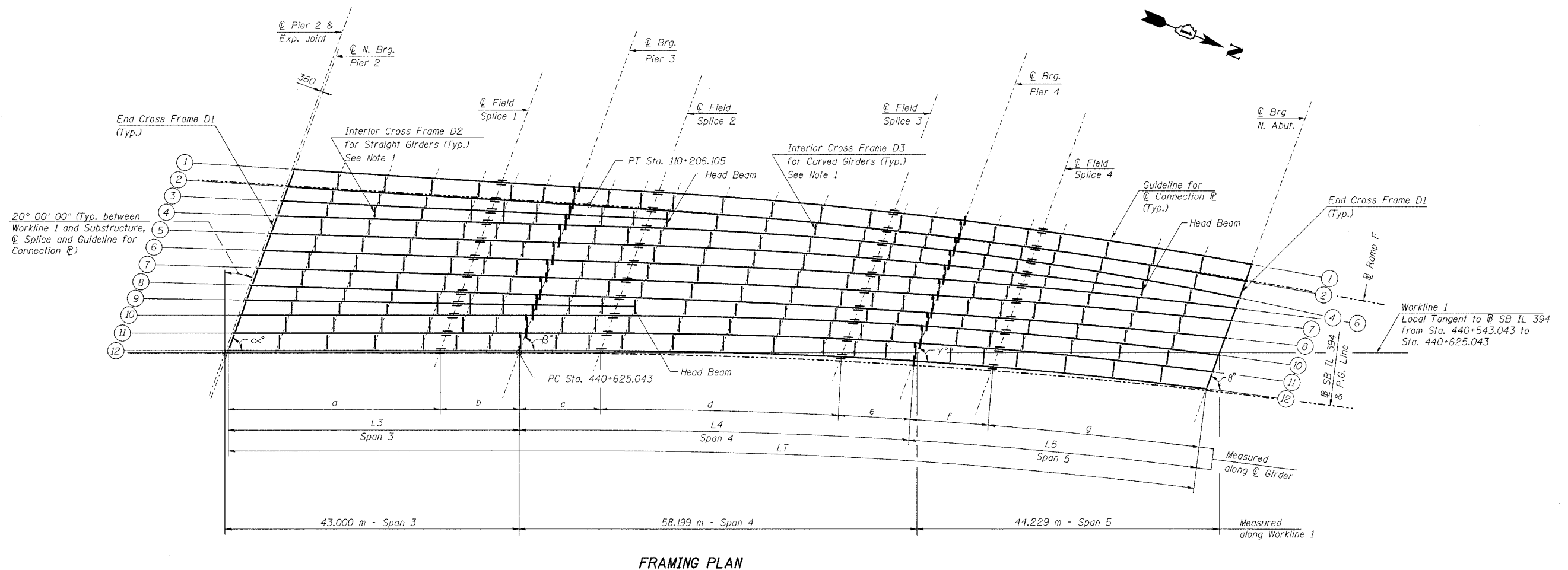


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | | |
|-----------------------|---------|----------------------------|--------------|-----------|---------------------------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | SHEET NO. 17 42 SHEETS |
| F. A. I. 80/94 | • | COOK | 90 | 32 | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT- | | | |
| • 2004-133F | | CONTRACT NO. 62898 | | | |



FRAMING PLAN

GIRDER GENERAL DIMENSIONS (Length in meters)

| Girder | Span 3 | | | Span 4 | | | Span 5 | | | Total LT = L3+L4+L5 | Radius R | Angle of Girder Orientation | | | | |
|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|---------------------|----------|-----------------------------|----------------|---------------|----------------|----------------|
| | a | b | L3=a+b | c | d | e | L4=c+d+e | f | g | | | L5=f+g | α° | β° | γ° | θ° |
| 1 | 30.381 | 11.362 | 41.743 | 11.607 | 34.550 | 10.478 | 56.635 | 11.407 | 30.986 | 42.393 | 140.771 | 750.377 | 73° 36' 46" | 73° 36' 46" | 77° 03' 03" | 80° 17' 17" |
| 2 | 30.381 | 11.362 | 41.743 | 11.607 | 34.555 | 10.481 | 56.643 | 11.411 | 31.000 | 42.411 | 140.797 | 768.670 | 73° 36' 46" | 73° 36' 46" | 76° 58' 11" | 80° 07' 52" |
| 3 | 30.527 | 11.417 | 41.944 | 14.318 | - | - | 14.318 | - | - | - | 56.262 | - | 72° 42' 18" | 72° 42' 18" | - | - |
| 4 | 30.680 | 11.474 | 42.154 | 11.721 | 34.748 | 10.491 | 56.960 | 11.403 | 30.899 | 42.302 | 141.416 | 503.863 | 71° 48' 23" | 71° 48' 23" | 76° 57' 03" | 81° 45' 40" |
| 5 | 30.680 | 11.474 | 42.154 | 11.721 | 34.829 | 10.541 | 57.091 | 11.466 | 17.101 | 28.567 | 127.812 | 661.475 | 71° 48' 23" | 71° 48' 23" | 75° 44' 11" | - |
| 6 | 30.680 | 11.474 | 42.154 | 11.721 | 34.920 | 10.599 | 57.240 | 11.542 | 31.358 | 42.900 | 142.294 | 993.453 | 71° 48' 23" | 71° 48' 23" | 74° 25' 54" | 76° 54' 21" |
| 7 | 30.680 | 11.474 | 42.154 | 11.721 | 34.956 | 10.623 | 57.300 | 11.574 | 31.471 | 43.045 | 142.499 | 1233.121 | 71° 48' 23" | 71° 48' 23" | 73° 55' 27" | 75° 55' 27" |
| 8 | 30.680 | 11.474 | 42.154 | 11.721 | 34.958 | 10.624 | 57.303 | 11.575 | 31.475 | 43.050 | 142.507 | 1242.425 | 71° 48' 23" | 71° 48' 23" | 73° 54' 30" | 75° 53' 37" |
| 9 | 30.845 | 11.536 | 42.381 | 14.467 | - | - | 14.467 | - | - | - | 56.848 | - | 70° 53' 45" | 70° 53' 45" | - | - |
| 10 | 31.017 | 11.600 | 42.617 | 11.850 | 35.181 | 10.635 | 57.666 | 11.562 | 31.329 | 42.891 | 143.174 | 672.128 | 70° 00' 00" | 70° 00' 00" | 73° 54' 20" | 77° 33' 43" |
| 11 | 31.017 | 11.600 | 42.617 | 11.850 | 35.189 | 10.641 | 57.680 | 11.569 | 31.351 | 42.920 | 143.217 | 690.950 | 70° 00' 00" | 70° 00' 00" | 73° 48' 01" | 77° 21' 34" |
| 12 | 31.017 | 11.600 | 42.617 | 11.850 | 35.197 | 10.645 | 57.692 | 11.575 | 31.373 | 42.948 | 143.257 | 709.488 | 70° 00' 00" | 70° 00' 00" | 73° 42' 07" | 77° 10' 13" |

Notes:

- Girder 3 and 9 are straight Girders. All the remaining Girders are straight from Pier 2 to Field Splice 2 and curved from Field Splice 2 to N. Abut. with their Radii shown in the table.
- Angle of Girder Orientation is the Angle between \hat{C} Brg and Local Tangent to \hat{C} Girder at the intersection of \hat{C} Brg and \hat{C} Girder.
- Dimension "c" for G3 and G9, Dimension "g" for G5 are measured to \hat{C} Head Beams.
- The contractor shall submit the proposed method of erection of the steel girders and cross frames for approval by the Engineer prior to start of this work.
- Work this sheet with Sheet Nos. 18 - 24 of 42.

| | |
|----------|-----|
| DESIGNED | JY |
| CHECKED | MEA |
| DRAWN | LK |
| CHECKED | MEA |

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND
GENERAL FRAMING PLAN
SPANS 3-5 - UNIT 1
SB IL ROUTE 394 OVER THORN CREEK
F.A.P. 332 SECTION 2004-133F
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800
DATE 05/16/05
SCALE ---

HNTB

\\hntb\en\34562\CADD\B\EN_2800\cadd\CTR_29_2800\frp\90114a_2800.dgn
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