

| | | |
|---------------------|----------|------------------|
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |
| SECTION | 2005-086 | 1 |
| COUNTY | COOK | |
| TOTAL SHEETS | 228 | |
| SHEET NO. | 219 | |

RAMP 'A' (2)

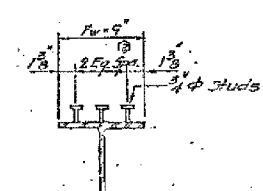
| SPAN | BEAM | TYPE | FLANGE WIDTH Fw | STUDS PER ROW | A | B | C | D | STUDS PER BEAM |
|----------|--------|------|-----------------|---------------|---------|---------|---|---|----------------|
| SPAN A-1 | 2 | WF | 15 1/2 | 4 | 13 @ 12 | 17 @ 15 | | | 264 |
| | 3 To 6 | WF | 12 | 4 | 20 @ 9 | 22 @ 12 | | | 344 |
| | 7 | WF | 16 1/2 | 4 | 12 @ 15 | 9 @ 14 | | | 176 |
| SPAN A-2 | 1 | WF | 16 1/2 | 4 | 32 @ 9 | 10 @ 15 | | | 344 |
| | 2 | WF | 12 | 4 | 31 @ 9 | 11 @ 15 | | | 344 |
| | 3 To 6 | WF | 12 | 4 | 20 @ 9 | 22 @ 12 | | | 344 |
| SPAN A-3 | 1 | WF | 16 1/2 | 4 | 25 @ 9 | 18 @ 12 | | | 352 |
| | 2 To 5 | WF | 12 1/2 | 4 | 18 @ 9 | 23 @ 12 | | | 336 |
| | 6 | WF | 16 1/2 | 4 | 15 @ 15 | 10 @ 21 | | | 208 |
| SPAN A-4 | 1 | WF | 16 1/2 | 4 | 23 @ 9 | 18 @ 12 | | | 344 |
| | 2 To 5 | WF | 12 | 4 | 18 @ 9 | 21 @ 12 | | | 328 |
| | 6 | WF | 16 1/2 | 4 | 19 @ 12 | 13 @ 15 | | | 264 |
| SPAN A-5 | 1 | WF | 16 1/2 | 4 | 15 @ 15 | 11 @ 18 | | | 216 |
| | 2 To 5 | WF | 12 | 4 | 18 @ 9 | 21 @ 12 | | | 328 |
| | 6 | WF | 16 1/2 | 4 | 19 @ 12 | 12 @ 15 | | | 256 |
| SPAN A-6 | 1 To 5 | WF | 12 1/2 | 4 | 17 @ 9 | 18 @ 12 | | | 304 |
| | 2 To 4 | WF | 12 | 4 | 18 @ 9 | 19 @ 12 | | | 304 |
| | | | | | | | | | |
| SPAN A-7 | 1 To 5 | WF | 12 1/2 | 4 | 18 @ 9 | 17 @ 12 | | | 304 |
| | 2 To 4 | WF | 12 | 4 | 17 @ 9 | 19 @ 12 | | | 296 |
| | | | | | | | | | |
| SPAN A-8 | 1 To 7 | W12 | 15 | 4 | 18 @ 12 | 8 @ 15 | | | 216 |
| | 8 To 6 | WF | 16 1/2 | 4 | 18 @ 15 | 16 @ 15 | | | 280 |
| | | | | | | | | | |

RAMP 'A' (2)

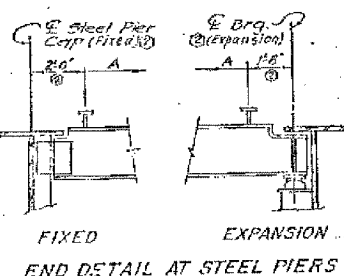
| SPAN | BEAM | TYPE | FLANGE WIDTH Fw | STUDS PER ROW | A | B | C | D | STUDS PER BEAM |
|-----------|--------|------|-----------------|---------------|---------|---------|---------|---|----------------|
| SPAN A-9 | 1 To 5 | WF | 12 1/2 | 4 | 16 @ 9 | 15 @ 12 | | | 256 |
| | 2 To 4 | WF | 11 1/2 | 3 | 23 @ 6 | 18 @ 9 | | | 282 |
| SPAN A-10 | 1 To 5 | WF | 12 1/2 | 4 | 14 @ 9 | 16 @ 12 | | | 248 |
| | 2 To 4 | WF | 11 1/2 | 3 | 26 @ 6 | 19 @ 9 | | | 276 |
| SPAN A-11 | 1 | WF | 12 | 4 | 5 @ 12 | | | | 48 |
| | 2 | WF | 9 | 3 | 11 @ 6 | 7 @ 9 | | | 114 |
| | 3 | WF | 7 | 3 | 10 @ 7 | 19 @ 6 | | | 228 |
| SPAN A-12 | 1 To 4 | WF | 10 1/2 | 3 | 18 @ 6 | 11 @ 9 | | | 216 |
| | 5 | WF | 12 | 4 | 16 @ 9 | 16 @ 12 | | | 264 |
| SPAN A-13 | 1 To 7 | W12 | 15 | 4 | 17 @ 12 | 8 @ 15 | 12 @ 18 | | 304 |
| | 2 To 6 | WF | 16 1/2 | 4 | 22 @ 12 | 16 @ 18 | | | 312 |
| SPAN A-14 | 1 | WF | 16 1/2 | 4 | 21 @ 9 | 23 @ 12 | | | 560 |
| | 2 To 5 | WF | 12 1/2 | 4 | 20 @ 9 | 24 @ 12 | | | 560 |
| | 6 | WF | 16 1/2 | 4 | 19 @ 9 | 23 @ 12 | | | 344 |
| SPAN A-15 | 1 To 6 | WF | 16 1/2 | 4 | 21 @ 9 | 23 @ 12 | | | 360 |
| | 2 To 5 | WF | 12 1/2 | 4 | 19 @ 9 | 24 @ 12 | | | 352 |
| | | | | | | | | | |
| SPAN A-16 | 1 | WF | 16 1/2 | 4 | 20 @ 9 | 23 @ 12 | | | 352 |
| | 2 To 5 | WF | 12 1/2 | 4 | 20 @ 9 | 23 @ 12 | | | 352 |
| | 6 | W12 | 12 | 4 | 19 @ 9 | 23 @ 12 | | | 344 |

SOUTHBOUND MAINLINE (2)

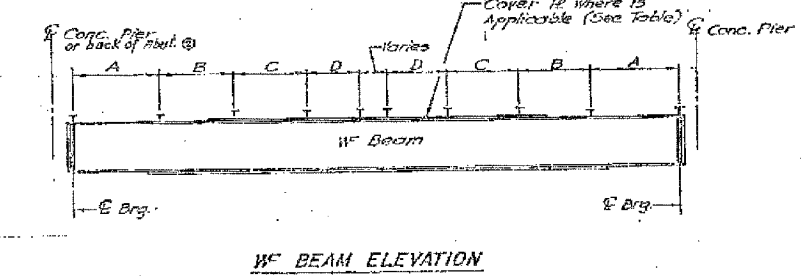
| SPAN | BEAM | TYPE | FLANGE WIDTH Fw | STUDS PER ROW | A | B | C | D | STUDS PER BEAM |
|----------|--------|------|-----------------|---------------|---------|---------|---------|---|----------------|
| SPAN B-1 | 1 | RG | 15 | 4 | 13 @ 12 | 8 @ 18 | 9 @ 21 | | 248 |
| | 2 To 4 | RG | 16 | 4 | 16 @ 12 | 8 @ 18 | 10 @ 21 | | 280 |
| | 5 | RG | 16 | 4 | 11 @ 18 | 12 @ 21 | | | 192 |
| SPAN B-2 | 1 | RG | 16 | 4 | 13 @ 18 | 14 @ 21 | | | 224 |
| | 2 To 4 | RG | 16 | 4 | 14 @ 12 | 10 @ 18 | | | 312 |
| SPAN B-3 | 1 | RG | 16 | 4 | 17 @ 15 | 7 @ 21 | 7 @ 24 | | 256 |
| | 5 | RG | 16 | 4 | 17 @ 15 | 7 @ 21 | 7 @ 24 | | 256 |
| SPAN B-4 | 1 | RG | 16 | 4 | 10 @ 15 | 6 @ 21 | 14 @ 24 | | 256 |
| | 2 To 4 | RG | 16 | 4 | 13 @ 15 | 10 @ 18 | 9 @ 21 | | 304 |
| | 5 | RG | 16 | 4 | 12 @ 18 | 4 @ 21 | 14 @ 24 | | 248 |
| SPAN B-5 | 1 | WF | 16 1/2 | 4 | 21 @ 9 | 19 @ 12 | | | 328 |
| | 2 To 4 | WF | 12 1/2 | 4 | 20 @ 9 | 20 @ 12 | | | 328 |
| | 5 | WF | 16 1/2 | 4 | 21 @ 12 | 11 @ 15 | | | 264 |
| SPAN B-6 | 1 | W12 | 16 1/2 | 4 | 18 @ 12 | 20 @ 15 | | | 312 |
| | 2 To 4 | WF | 16 1/2 | 4 | 24 @ 9 | 25 @ 12 | | | 200 |
| | 5 | WF | 16 1/2 | 4 | 18 @ 12 | 20 @ 15 | | | 312 |
| SPAN B-7 | 1 To 5 | WF | 16 1/2 | 4 | 17 @ 9 | 15 @ 15 | | | 264 |
| | 2 To 4 | WF | 12 | 4 | 16 @ 9 | 17 @ 12 | | | 288 |
| | | | | | | | | | |
| SPAN B-8 | 1 To 5 | WF | 12 1/2 | 4 | 17 @ 9 | 16 @ 15 | | | 272 |
| | 2 To 4 | WF | 12 | 4 | 17 @ 9 | 20 @ 12 | | | 304 |
| | | | | | | | | | |
| SPAN B-9 | 1 | WF | 12 1/2 | 4 | 19 @ 9 | 19 @ 12 | | | 312 |
| | 2 To 4 | WF | 12 | 4 | 17 @ 9 | 20 @ 12 | | | 304 |
| | 5 | WF | 12 1/2 | 4 | 17 @ 9 | 16 @ 15 | | | 272 |



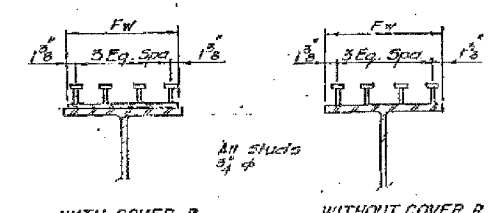
TYPICAL WF SECTION
 Flange width > 12" @



FIXED END DETAIL AT STEEL PIERS



WF BEAM ELEVATION
 (CONCRETE PIER TO CONCRETE PIER)



TYPICAL WF SECTION
 Flange width > 12" @

SHEET 236 OF 109

| REVISIONS | NAME | DATE |
|-----------|------|---------|
| (1) Rev | | 6/25/20 |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 60/94 (DAN RYAN EXPRESSWAY)
 SECTION 195-082 R COOK COUNTY
 S.R. MAINTENANCE RECONSTRUCTION
 STRUCTURE 016-1067 B.117
 BEARING REPLACEMENT & STEEL BEAM
 SCALE: NONE
 DATE: AUG 14 1987
 ENVIRONMENTAL ENGINEERS INC.
 Chicago, Illinois

| REVISIONS | NAME | DATE |
|-----------|------|------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 DAN RYAN ELEVATED BRIDGE
 BEARING REPLACEMENT & STEEL REPAIR
 EXISTING PLAN INFORMATION
 SN 016-1117 & SN 016-1067
 SCALE: NTS
 DATE: 5/18/2007
 DRAWN BY: LAM
 CHECKED BY: BLU

FOR INFORMATION ONLY

19600000 BRIDGE 016 SHEET 195-082 R VIA 016-1117 E.P.I.P. 5/24/2007