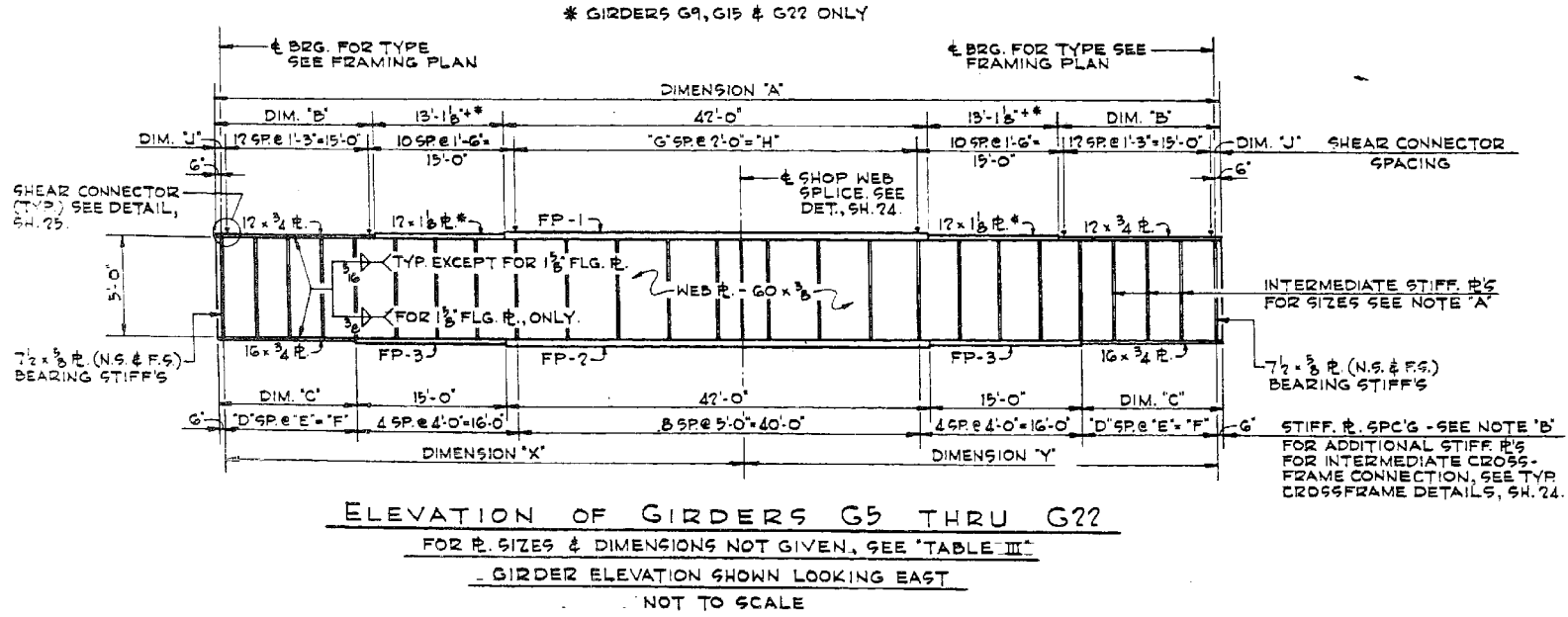


NOTE 'A':
INTERMEDIATE STIFF'S - 5/2 x 3/8 PL. (N.S. & F.G.), EXCEPT AT CROSSFRAME CONNECTION. FOR STIFF. P'S AT CROSSFRAME CONNECTION, SEE TYP. CROSSFRAME DETAILS, SH. 24. FOR DETAIL OF INTERMEDIATE STIFF. P'S OTHER THAN AT CROSSFRAMES, SEE DETAIL 'X', SH. 25. FOR DETAIL OF STIFF. P'S AT BEARINGS, SEE SH. 25.

NOTE 'B':
ALL STIFFENED P'S TO BE WELDED AT RIGHT ANGLES TO WEB & FLANGES OF GIRDER.

FRAMING PLAN - UNIT 'B'
SCALE: 1/8" = 1'-0"



ELEVATION OF GIRDERS G5 THRU G22
FOR P. SIZES & DIMENSIONS NOT GIVEN, SEE 'TABLE III'
GIRDER ELEVATION SHOWN LOOKING EAST
NOT TO SCALE

| GIRDER | FLANGE P. SIZES | | | DIMENSIONS (GIVEN ALONG GIRDER) | | | | | | | | | | | |
|--------|-----------------|------------|------------|---------------------------------|-------------|-------------|-----|-----------|-------------|-----|--------|-----------|-------------|-------------|--|
| | FP-1 | FP-2 | FP-3 | 'A' | 'B' | 'C' | 'D' | 'E' | 'F' | 'G' | 'H' | 'J' | 'X' | 'Y' | |
| G5 | 12 x 1 | 16 x 1 1/2 | 16 x 1 3/8 | 100'-0" | 29'-0" | 14'-0" | 4 | 3'-4 1/2 | 13'-6" | 19 | 38'-0" | 1'-0" | 52'-0" | 47'-0" | |
| G6 | 12 x 1 1/2 | 16 x 1 3/8 | 16 x 1 1/2 | 101'-5 1/2" | 29'-8 3/8" | 14'-0 3/8" | 4 | 3'-6 1/4" | 14'-2 1/4" | 20 | 40'-0" | 8 13/16" | 52'-9 3/8" | 47'-8 3/8" | |
| G7 | 12 x 1 3/8 | 16 x 1 1/2 | 16 x 1 3/8 | 103'-0" | 30'-6" | 15'-6" | 4 | 3'-9" | 15'-0" | 21 | 42'-0" | 6" | 53'-6" | 48'-5 1/2" | |
| G8 | 12 x 1 1/2 | 16 x 1 3/8 | 16 x 1 1/2 | 104'-0 3/8" | 31'-3 3/8" | 16'-3 3/8" | 5 | 3'-1 1/8" | 15'-9 7/8" | 21 | 42'-0" | 1'-3 1/8" | 54'-4 1/8" | 49'-2 1/8" | |
| G9 | 12 x 1 1/2 | 16 x 1 3/8 | 16 x 1 3/8 | 106'-2 1/2" | 19'-0" | 17'-1 1/2" | 5 | 3'-3 3/8" | 16'-7 1/8" | 22 | 44'-0" | 1'-1 1/8" | 55'-3" | 49'-11 1/8" | |
| G10 | 12 x 1 | | | 100'-0" | 29'-0" | 14'-0" | 4 | 3'-4 1/2 | 13'-6" | 19 | 38'-0" | 1'-0" | 52'-0" | 47'-0" | |
| G11 | | | | 101'-2 1/2" | 29'-7 1/2" | 14'-7 1/2" | 4 | 3'-6 1/4" | 14'-1 1/2" | 20 | 40'-0" | 7 1/8" | 52'-7 1/8" | 47'-6 1/2" | |
| G12 | | | | 102'-4 1/2" | 30'-2 1/2" | 15'-2 1/2" | 4 | 3'-8 1/2" | 14'-8 1/2" | 20 | 40'-0" | 1'-2 1/2" | 53'-3" | 48'-1 1/2" | |
| G13 | | | | 103'-7 1/2" | 30'-9 3/8" | 15'-9 3/8" | 4 | 3'-9 1/8" | 15'-3 3/8" | 21 | 42'-0" | 9 3/8" | 53'-10 3/8" | 48'-8 3/8" | |
| G14 | 12 x 1 | | | 104'-10 1/8" | 31'-5 1/8" | 16'-5 1/8" | 5 | 3'-2 1/4" | 15'-11 1/8" | 21 | 42'-0" | 1'-5 1/8" | 54'-6 1/8" | 49'-3 1/8" | |
| G15 | 12 x 1 1/2 | | | 106'-2 3/8" | 19'-0" | 17'-1 3/8" | 5 | 3'-3 3/8" | 16'-7 3/8" | 22 | 44'-0" | 1'-1 3/8" | 55'-3" | 49'-11 3/8" | |
| G16 | 12 x 1 | | | 100'-0" | 29'-0" | 14'-0" | 4 | 3'-4 1/2 | 13'-6" | 19 | 38'-0" | 1'-0" | 52'-0" | 47'-0" | |
| G17 | | | | 100'-11 1/2" | 29'-5 1/2" | 14'-5 1/2" | 4 | 3'-6" | 13'-11 1/2" | 19 | 38'-0" | 1'-5 1/2" | 52'-6" | 47'-5 1/2" | |
| G18 | | | | 101'-11 1/8" | 29'-11 1/8" | 14'-11 1/8" | 4 | 3'-7 1/8" | 14'-5 1/8" | 20 | 40'-0" | 11 1/8" | 53'-0 1/8" | 47'-11 1/8" | |
| G19 | | | | 103'-0" | 30'-6" | 15'-6" | 4 | 3'-9" | 15'-0" | 21 | 42'-0" | 6" | 53'-6" | 48'-5 1/2" | |
| G20 | | | | 104'-0 1/2" | 31'-0 1/2" | 16'-0 1/2" | 5 | 3'-1 1/2" | 15'-6 1/2" | 21 | 42'-0" | 1'-0 1/2" | 54'-1 1/2" | 48'-11" | |
| G21 | 12 x 1 | | | 105'-1 1/2" | 31'-6 3/8" | 16'-6 3/8" | 5 | 3'-2 1/2" | 16'-0 3/8" | 22 | 44'-0" | 6 3/8" | 54'-8 3/8" | 49'-5 1/8" | |
| G22 | 12 x 1 1/2 | 16 x 1 3/8 | 16 x 1 3/8 | 106'-2 1/2" | 19'-0" | 17'-1 1/2" | 5 | 3'-3 3/8" | 16'-7 1/8" | 22 | 44'-0" | 1'-1 1/8" | 55'-3" | 49'-11 1/8" | |

NOTES:
FOR STRUCTURAL STEEL DESIGNATION, SEE SH. 3.
FOR BILL OF MATERIAL, SEE SH. 22.
FOR CROSSFRAME DETAILS, SEE SH. 24.
FOR TOP OF GIRDER WEB P. ELEVATIONS, SEE SH. 25.
FOR DETAIL OF CONDUIT SUPPORT BRACKETS SEE SH. 28.

| MAX. MOMENT (K-IPS) | FASCIA GIRDERS | | | | INTERIOR GIRDERS | | | | | | |
|------------------------|----------------|---------------|-------------|--------------|------------------|---------------|---------------|-------------|--------------|--------------|-------|
| | G5, G10 & G16 | G9, G15 & G22 | G6, G7 & G8 | G11 THRU G14 | G17 THRU G21 | G5, G10 & G16 | G9, G15 & G22 | G6, G7 & G8 | G11 THRU G14 | G17 THRU G21 | |
| DEAD LOAD | 1507 | 2003 | 1229 | 1300 | 1334 | 61.0 | 76.3 | 47.6 | 50.2 | 51.4 | |
| LIVE LOAD | 471 | 606 | 1047 | 1123 | 1162 | | 24.6 | 43.2 | 46.2 | 47.7 | |
| IMPACT | 109 | 132 | 229 | 245 | 254 | | 9.3 | 9.4 | 10.1 | 10.4 | |
| SUPERIMPOSED DEAD LOAD | 241 | 272 | 258 | 248 | 246 | | 9.8 | 10.4 | 10.0 | 9.6 | 9.5 |
| TOTAL | 2327 | 3013 | 2763 | 2916 | 2996 | | 95.8 | 116.6 | 110.2 | 116.1 | 119.0 |

DE LEW, CATHER & CO. ENGINEERS
DESIGNED BY E.H. LIEBOLD
DRAWN BY J.A. CHALKIS
CHECKED V.L. MARTINS
IN CHARGE E.S. MARTINS
APPROVED L.N. RIAN

ILLINOIS DIVISION OF HIGHWAYS
SOUTHWEST EXPRESSWAY
RAMP E OVER DES PLAINES RIVER
FRAMING PLAN & GIRDER DETAILS
UNIT B
SCALE: AS NOTED DATE: 8-28-63

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