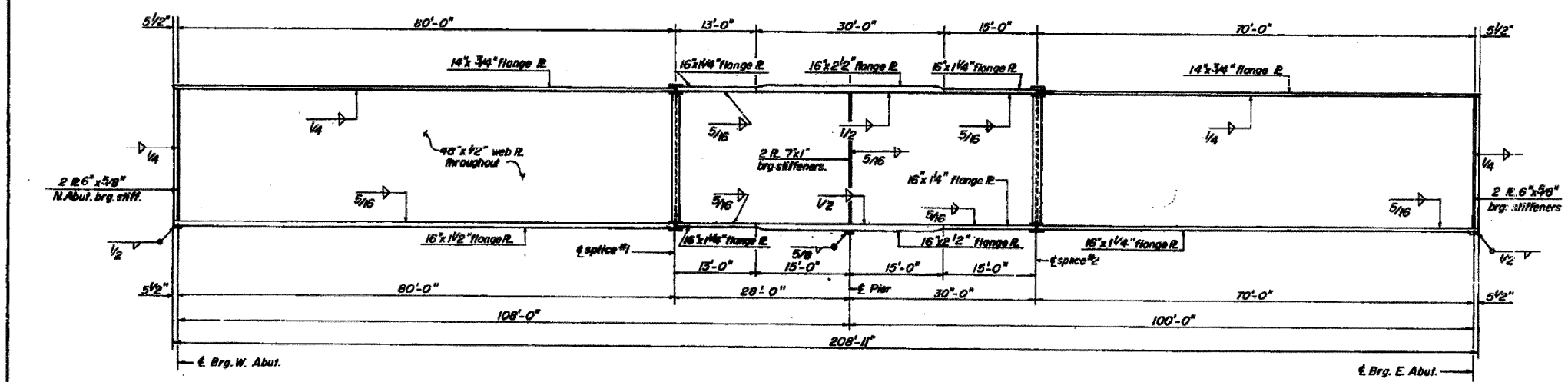


FRAMING PLAN
Scale: 3/32" = 1'-0"



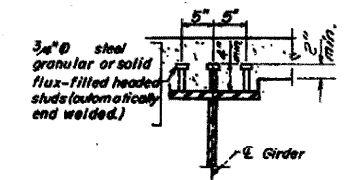
GIRDER ELEVATION
Scale: Horiz. 3/32" = 1'-0"
Vert. 1/2" = 1'-0"

(Composite in Positive Moment Areas only)

| | 0.4 Span 1 | Pier | 0.4 Span 2 |
|--------------------------|------------|--------|------------|
| I_s (in ⁴) | 23,599.0 | 55,654 | 23,599 |
| I_c (in ⁴) | 63,598 | — | 63,598 |
| S_s (in ³) | 1196.6 | 2100.2 | 1196.6 |
| S_c (in ³) | 1617.4 | — | 1617.4 |
| R (in) | 1.057 | 1.23 | 1.057 |
| M_R (in-k) | 774.5 | 1785 | 953.1 |
| $f_s R$ (ksi) | 2.77 | 10.20 | 5.55 |
| $S R$ (in-k) | 0.431 | 0.431 | 0.431 |
| $M_s R$ (in-k) | 380.0 | 558.0 | 294.0 |
| M_{L+Imp} (in-k) | 1192.1 | 1038.5 | 1130.8 |
| Total (in-k) | 1572.1 | 1896.5 | 1424.8 |
| $f_s R_{Total}$ (ksi) | 19.43 | 19.32 | 16.12 |
| VR (in-k) | 59.6 | — | 61.1 |

| | Abutment 1 | Pier | Abutment 2 |
|--------------------|------------|-------|------------|
| R_{L+Imp} (k) | 58.8 | 204.8 | 50.6 |
| R_{L+Imp} (in-k) | 625 | 100.9 | 625 |
| R_{Total} (k) | 121.3 | 3057 | 1131 |

I_s and S_s are the moment of inertia and section modulus of the steel section.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s .
 VR is the maximum $L+Imp$ shear range in span.



SECTION A-A
NO. REQ'D = 2088

FOR INFORMATION ONLY

LOCATION 3 Structure Number 081-0131

| | |
|----------|------|
| DESIGNED | D.N. |
| CHECKED | P.B. |
| DRAWN | A.M. |
| CHECKED | P.B. |

STRUCTURAL STEEL
 FA 403 SECTION 161-1HB 7
 FA 403 UNDER CH 2
ROCK ISLAND COUNTY
 STATION 792+93.31

* FAI ROUTES 74 & 88
 ** D2 BRIDGE PAINTING 2008-1