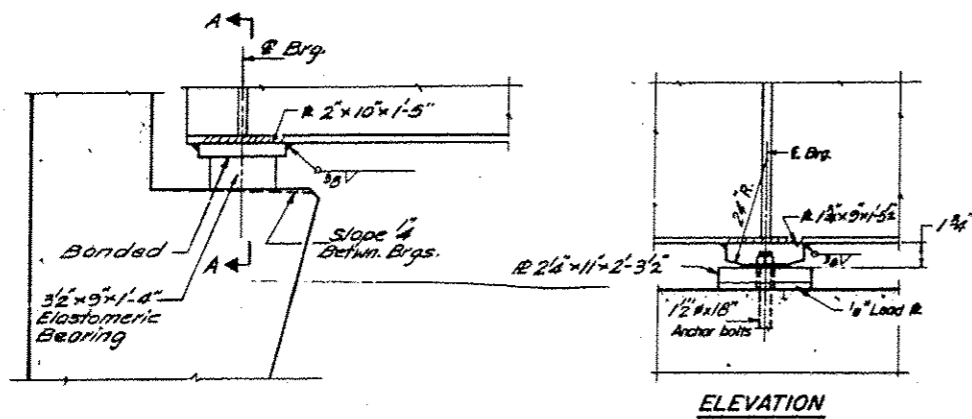


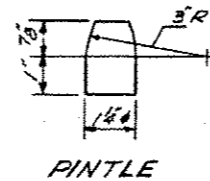
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | |
|-------------|---------|---------|--------------|-----------|
| PROJECT NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 407 | 1-SHB-2 | Adams | 58 | 26 |
| DATE | BY | CHECKED | APPROVED | |
| | | | | |

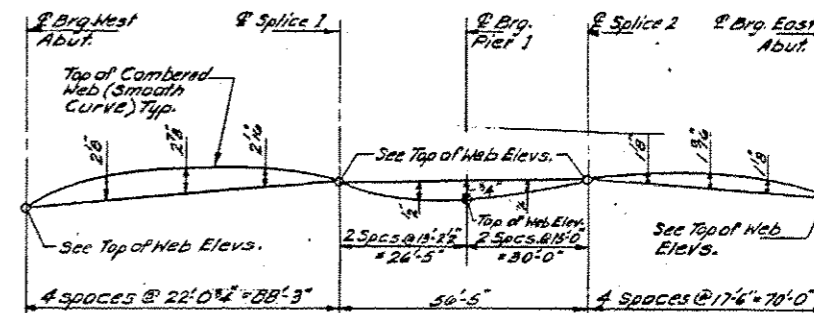


ELEVATION

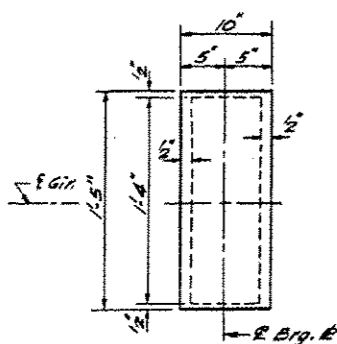
ELEVATION



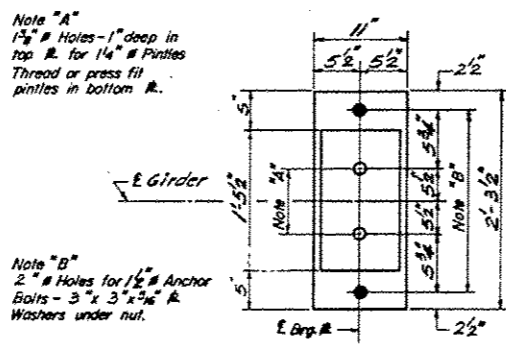
PINTLE



CAMBER DIAGRAM



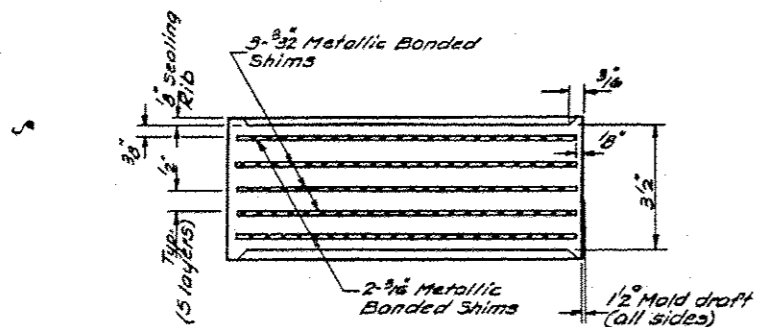
PLAN AT ABUTMENT



PLAN AT PIER

Note "A"
1/4" # Holes - 1" deep in top R. for 1/4" # Pintles Thread or press fill pintles in bottom R.

Note "B"
2" # Holes for 1/2" Anchor Bolts - 3" x 3" x 3/8" R Washers under nut.



Elastomeric Bearing Detail
(Cost Incidental)

| | 4 Sp. 1 | Pier | 4 Sp. 2 |
|------------------------------------|---------|---------|---------|
| I _x (in ⁴) | 26,613 | 35,453 | 18,953 |
| I _c (in ⁴) | 69,191 | - | 29,705 |
| S _x (in ³) | 1,367.5 | 2,100.2 | 882.5 |
| S _c (in ³) | 1,818.0 | - | 1,221.8 |
| R (K/ft) | 1.011 | 1.011 | 1.011 |
| M _R (K) | 315.9 | 1768.0 | 483.6 |
| I _{xx} (in ⁴) | 8.04 | 10.10 | 6.58 |
| S _x (in ³) | .493 | .493 | .493 |
| M _{xx} (K) | 51.0 | 667.2 | 324.7 |
| M _{xx} (K) | 1,020.1 | 829.9 | 643.8 |
| M _{xx} (K) | 214.2 | 178.4 | 155.6 |
| Total (K) | 1745.3 | 1675.5 | 1354.1 |
| I _{yy} (in ⁴) | 11.54 | 9.27 | 15.30 |
| I _{yy} (in ⁴) | 19.58 | 19.67 | 19.88 |
| VR (K) | 58.5 | - | 59.1 |

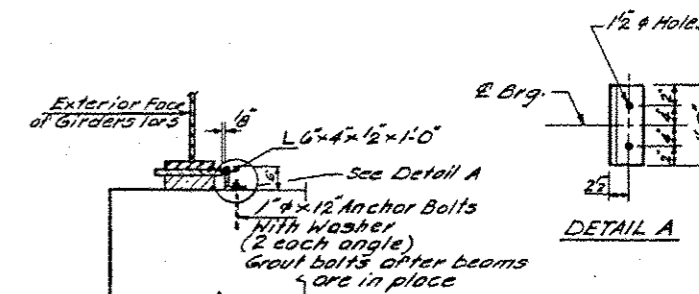
| | W. Abut. | Pier | E. Abut. |
|--------------------|----------|-------|----------|
| R _R (K) | 66.0 | 207.1 | 49.9 |
| R _L (K) | 42.3 | 75.6 | 43.3 |
| Imp. (K) | 9.2 | 16.3 | 9.6 |
| R Total (K) | 117.5 | 299.0 | 103.0 |

I_x and S_x 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 I_x.
VR is the maximum \pm Impact shear range in span.

*TOP OF WEB ELEVATIONS

| Span | 1 | 2 | 3 | 4 | 5 |
|------------------|--------|--------|--------|--------|--------|
| 4 Sp. West Abut. | 710.72 | 710.88 | 711.01 | 710.51 | 710.78 |
| 4 Sp. Splice 1 | 709.06 | 708.22 | 708.57 | 708.57 | 708.16 |
| 4 Sp. Pier | 708.91 | 708.48 | 708.68 | 708.59 | 708.42 |
| 4 Sp. Splice 2 | 707.98 | 707.78 | 707.90 | 707.81 | 707.70 |
| 4 Sp. East Abut. | 705.32 | 705.69 | 705.84 | 707.76 | 705.66 |

* Before any deflection
To be used for fabrication only



SECTION AA
(Exterior Girders only)

| | | | |
|----------|-----------------------|----------------------|-----------------------|
| DESIGNED | Handwritten Signature | EXAMINED | Handwritten Signature |
| CHECKED | Handwritten Signature | PASSED | Handwritten Signature |
| DRAWN | Leon Heeler | APPROVED | Handwritten Signature |
| CHECKED | GEO | DIRECTOR OF HIGHWAYS | |

I-2-6 3-29-71

BEARING DETAILS
E.A.P. RT. 407 SEC. 1-SHB-2
ADAMS COUNTY
STA. 223+42.61

FOR INFORMATION ONLY

| | | | | | | | | | | |
|---|------------------------|-------------------------------|---------|--|-------------------------|---------------|--------------------|------------|--------------|---------------------------|
| FILE NAME | USER NAME | DESIGNED | REVISED | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | 001-0046 EXISTING PLANS | F.A.I. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| D:\OPERATIONS\Bridges\plans\CAD\72087 - 0 | dudleybn | pointing 2013-1\plansheet.dgn | | | | VAR. | 06 PAINTING 2013-1 | ADAMS/PIKE | 16 | 6 |
| PLOT SCALE | PLOT DATE | CHECKED | REVISED | | SCALE: _____ | SHEET _____ | OF _____ | SHEETS | STA. _____ | TO STA. _____ |
| 8.9688 1/1 in. | Feb-27-2013 10:08:23AM | | | | | | | | | |
| | | | | | | | | | | ILLINOIS FED. AID PROJECT |