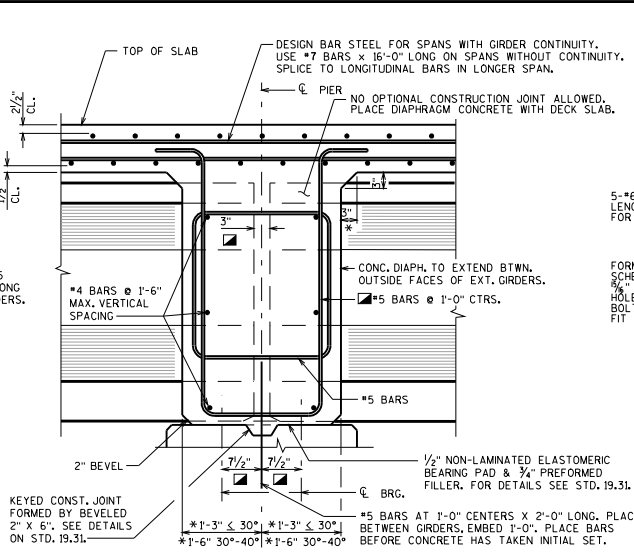
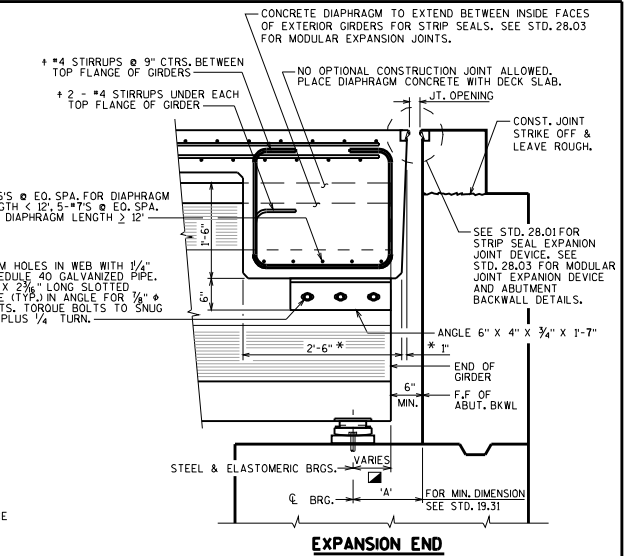


**PRESTRESSED GIRDER WITH SEMI-EXPANSION SEAT**



**DIAPHRAGM AT 1/2" ELASTOMERIC BEARING**

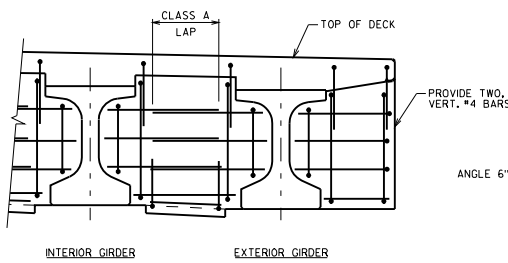


**EXPANSION END**

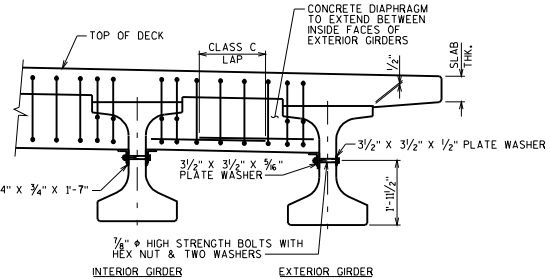
0° SKEW SHOWN (NON 0° SKEW SHOWN IN TOP VIEW)

**LEGEND**

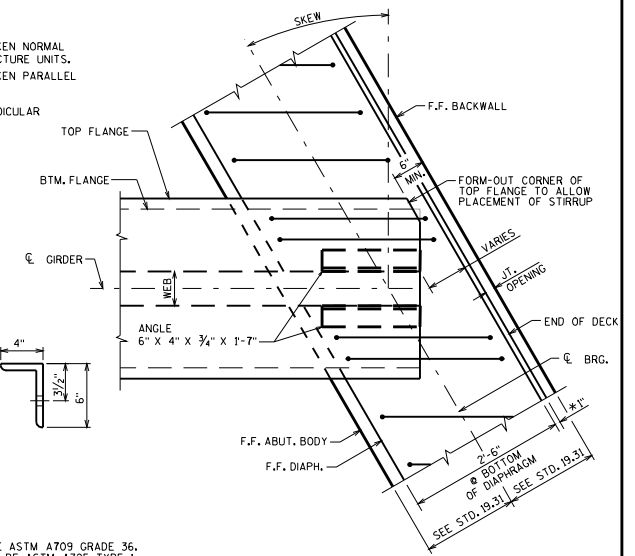
- \* DIMENSION IS TAKEN NORMAL TO  $\phi$  SUBSTRUCTURE UNITS.
- DIMENSION IS TAKEN PARALLEL TO  $\phi$  GIRDER.
- + SPACING PERPENDICULAR TO  $\phi$  GIRDERS



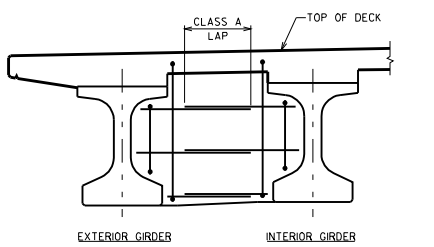
**PART TRANSVERSE SECTION AT DIAPHRAGM SEMI-EXPANSION END**



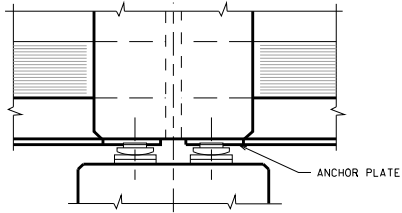
**PART TRANSVERSE SECTION AT DIAPHRAGM EXPANSION END**



**TOP VIEW OF DIAPHRAGM (EXPANSION END)**



**PART TRANSVERSE SECTION AT DIAPHRAGM PIER**



**DIAPHRAGM AT STEEL OR ELASTOMERIC BEARINGS SECTION THRU HAUNCH AT PIER**

**NOTES**

- DIAPHRAGM SUPPORT ANGLES SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.
- ALL SUPPORT ANGLES SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.
- LAP LENGTHS FOR DIAPHRAGM REINFORCEMENT SHALL BE BASED ON A CLASS "C" TENSION LAP SPLICE, UNLESS OTHERWISE NOTED.
- ALL DIAPHRAGM SUPPORT HARDWARE SHALL BE INCIDENTAL TO "CONCRETE MASONRY BRIDGES".
- CONCRETE FOR ABUTMENT AND PIER DIAPHRAGMS SHALL BE PLACED WITH THE DECK CONCRETE. NO OPTIONAL CONSTRUCTION JOINT WILL BE ALLOWED.

■ THESE DIMENSIONS PARALLEL TO GIRDER

<b>PRESTRESSED 45W" GIRDER SLAB &amp; SUPERSTRUCTURE DETAILS</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DEVELOPMENT SECTION	
APPROVED: <b>Scot Becker</b>	DATE: 1-09