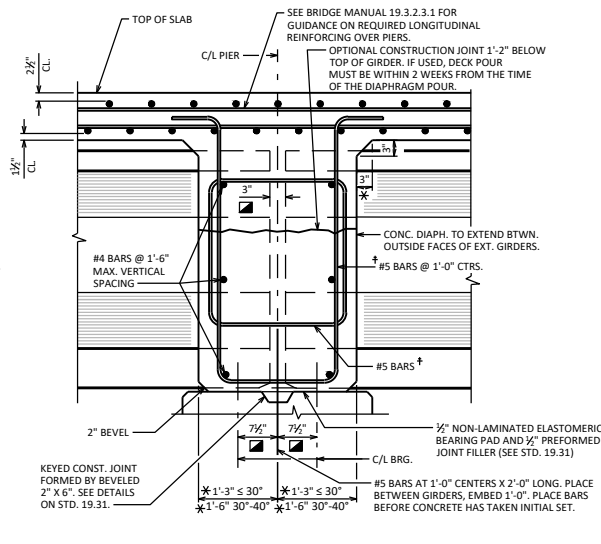
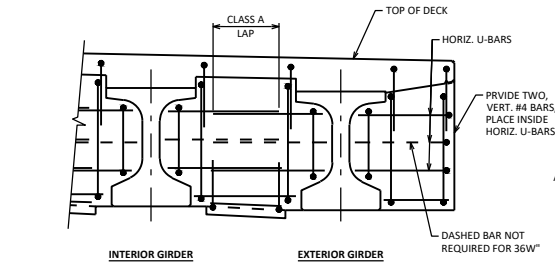
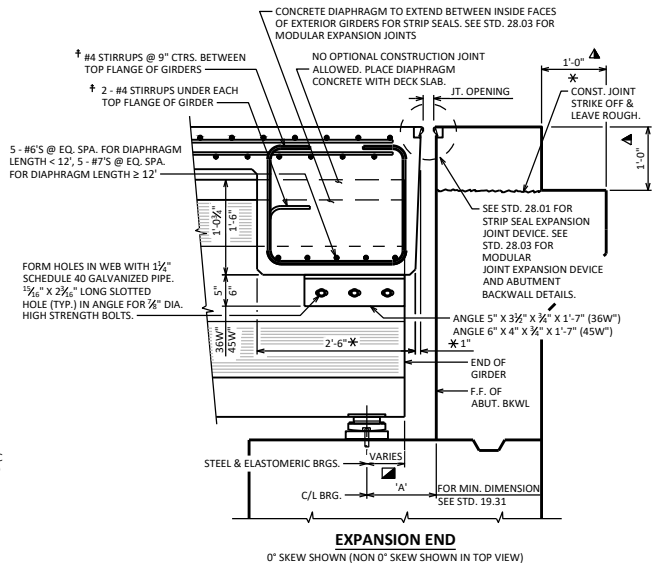


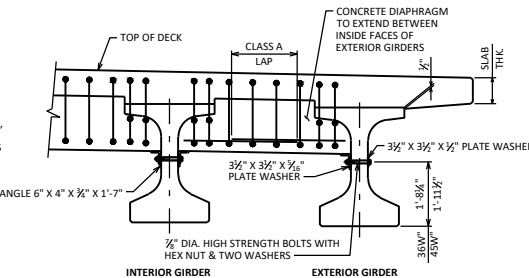
**PRESTRESSED GIRDER WITH SEMI-EXPANSION SEAT**



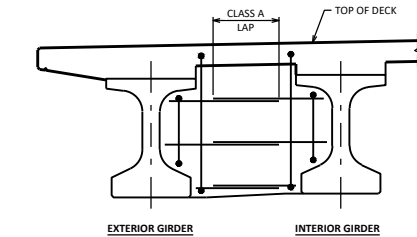
**DIAPHRAGM AT 1/2" ELASTOMERIC BEARING**



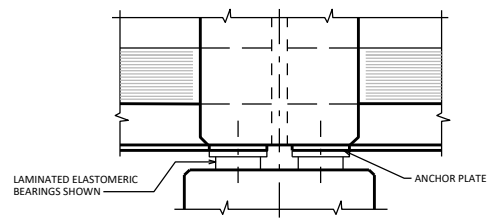
**PART TRANSVERSE SECTION AT DIAPHRAGM SEMI EXPANSION END**



**PART TRANSVERSE SECTION AT DIAPHRAGM EXPANSION END**



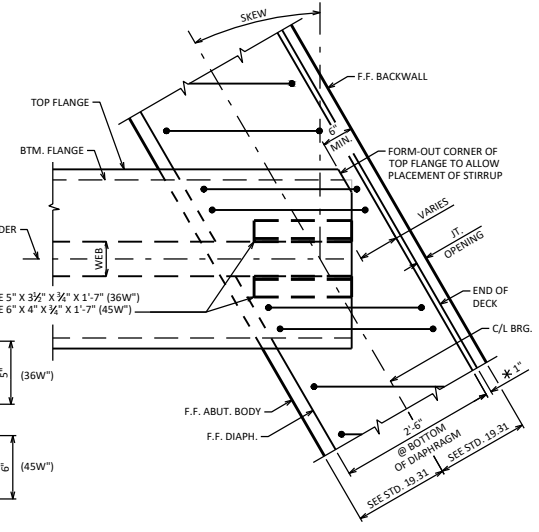
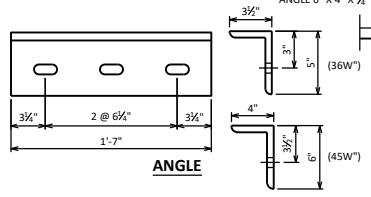
**PART TRANSVERSE SECTION AT DIAPHRAGM PIER**



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

FOR STEEL BEARINGS, FORM DIAPHRAGM APPROXIMATELY 1/2" ABOVE BEARING KEEPER BARS

- LEGEND**
- DIMENSION IS TAKEN PARALLEL TO C/L GIRDER.
  - \* DIMENSION IS TAKEN NORMAL TO C/L SUBSTRUCTURE UNITS.
  - ▲ PAVING NOTCH IS 1'-0" WIDE BY 1'-4" DEEP IF STRUCTURAL APPROACH SLAB (STD. 12.10) IS USED. SHOW NO. 9 STAINLESS STEEL BAR (STD. 12.12) FOR STRUCTURAL APPROACH SLAB ON THE SECTION THRU ABUT. OR ABUT. DIAPH.
  - † BARS PLACED PARALLEL TO GIRDERS, SPACING PERPENDICULAR TO C/L GIRDERS.



- NOTES**
- ALL DIAPHRAGM SUPPORT HARDWARE SHALL BE INCIDENTAL TO "CONCRETE MASONRY BRIDGES".
- DIAPHRAGM SUPPORT ANGLES SHALL BE ASTM A709 GRADE 36.
- ALL DIAPHRAGM SUPPORT HARDWARE INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.
- STEEL DIAPHRAGM SUPPORT ANGLE TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS 1/2 TURN. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.
- DESIGNER NOTE**
- LAP LENGTHS FOR DIAPHRAGM REINFORCEMENT SHALL BE BASED ON A CLASS "C" TENSION LAP SPICE, UNLESS OTHERWISE NOTED.

**PRESTRESSED 36W" & 45W" GIRDER SLAB & SUPERSTRUCTURE DETAILS**

**BUREAU OF STRUCTURES**

APPROVED: *Laura Shadewald*

DATE: 1-19