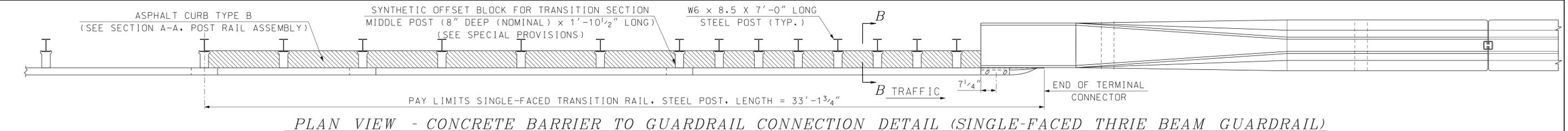


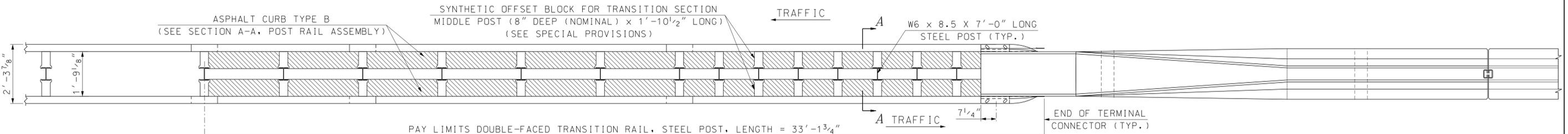
REVISION DATE
06-16-2010
11-05-2010
10-30-2012

\*DGN FILE NAME  
GR-18

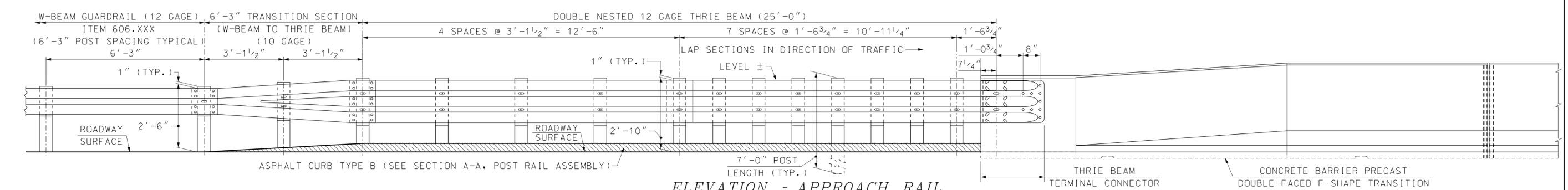
STANDARD PLANS



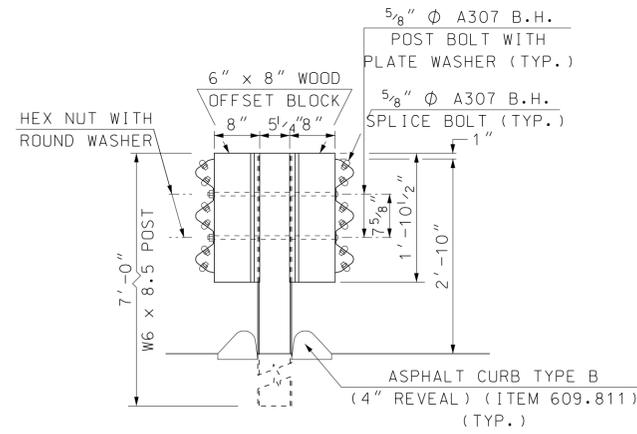
PLAN VIEW - CONCRETE BARRIER TO GUARDRAIL CONNECTION DETAIL (SINGLE-FACED THRIE BEAM GUARDRAIL)



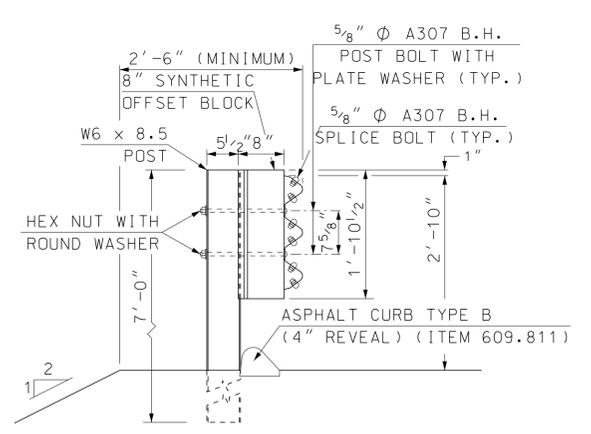
PLAN VIEW - CONCRETE BARRIER TO GUARDRAIL CONNECTION DETAIL (DOUBLE-FACED THRIE BEAM GUARDRAIL)



ELEVATION - APPROACH RAIL

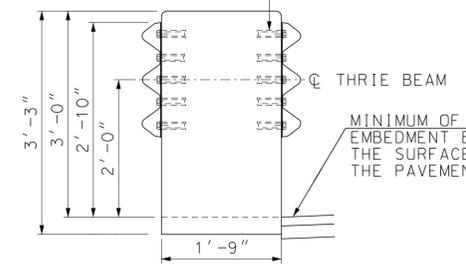


SECTION A-A (POST RAIL ASSEMBLY)



SECTION B-B (POST RAIL ASSEMBLY)

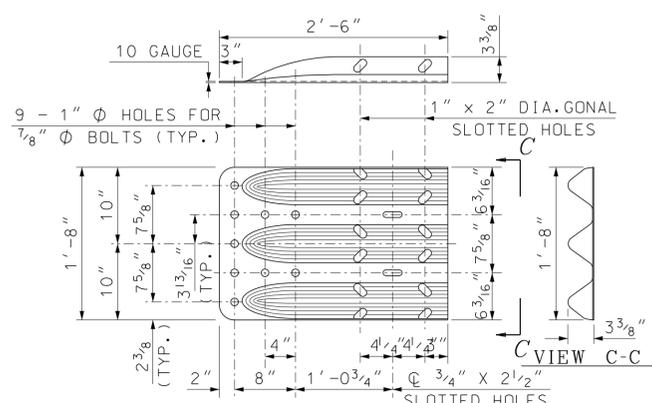
THRIE BEAM SHALL BE FASTENED WITH 7/8" Ø ASTM A325 BOLTS IN EPOXY THREADED INSERTS SET INTO CONCRETE BARRIER. INSERTS SHALL BE CAPABLE OF DEVELOPING THE FULL STRENGTH OF A 7/8" Ø HIGH STRENGTH BOLT. ALL COSTS INCLUDED IN ITEM - SEE NOTE 4.



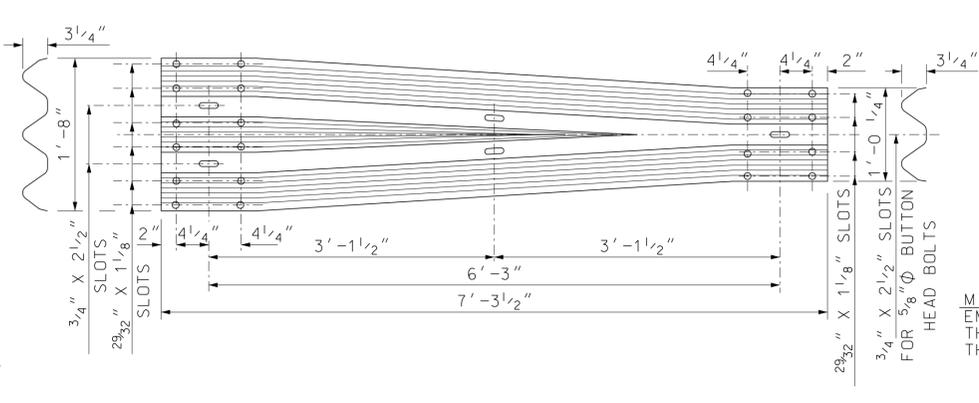
DOUBLE-FACED THRIE BEAM ATTACHMENT

GENERAL NOTES

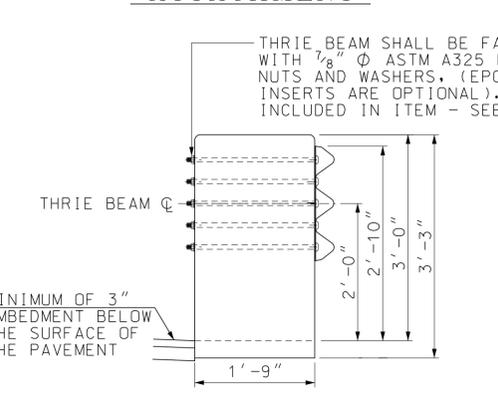
1. ALL THRIE BEAM RAIL, INCLUDING TRANSITION SECTION, SHALL BE GALVANIZED 12 GAUGE. ALL TERMINAL CONNECTORS SHALL BE GALVANIZED 10 GAUGE.
2. CONNECTIONS TO CONCRETE BARRIER SHALL BE APPROVED 7/8" Ø GALVANIZED HIGH STRENGTH THROUGH BOLTS IN CORE DRILLED HOLES. CHECK ACTUAL HOLE SPACING BEFORE CORING BOLT HOLES.
3. ALL CONNECTIONS FOR THE THRIE BEAM RAIL AND TERMINAL CONNECTOR SHALL LAP IN THE DIRECTION OF TRAFFIC.
4. PAID FOR UNDER APPROPRIATE 606 ITEMS, OR AS SHOWN ON PLANS.



THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM TO W-BEAM TRANSITION SECTION



THRIE BEAM ATTACHMENT

**GUARDRAIL STANDARD**  
 TRANSITION F-SHAPE  
 CONCRETE BARRIER  
 AND GUARDRAIL (STEEL)

