STRAIGHT METAL BOX SPACER, SEE DETAILS A AND B AND NOTE 8
1" GH M/B W/ WASHERS AND NUTS, TOTAL 4
1/2" G/C PIPE OR PVC PIPE SLEEVE OR 1/2" DRILLED HOLES
1/4" GALV PIPE OR PVC PIPE SLEEVE OR 1/4" DRILLED HOLES
1/4" GALV BOLTS W/ WASHERS AND NUTS, TOTAL 4
1/2" BOLTS W/ WASHERS AND NUTS, TOTAL 4
TIRE BEAM RAIL ELEMENT
10" x 10" x 8'-0" WOOD POST
8" x 12" x 1'-0" WOOD BLOCK

PLAN

ELEVATION

MIDWEST GUARDRAIL SYSTEM CONNECTION TO BRIDGE RAILING WITHOUT SIDEWALK

NOTES:
1. See Standard Plan A77U2 for additional connection details to bridges without sidewalks.
2. Additional details of posts, blocks and hardware are shown on Standard Plans A77U1, A77U2, and A77U3.
3. For additional details of Transition Railing (Type WB-31), see Standard Plan A77U4, Transition Railing (Type WB-31) transitions the 12 gauge MGS railing section to a heavier gauge nested thrie beam railing section which is connected to the concrete bridge railing.
4. For typical use of Connection Detail A, see Layout Types 12A and 12B on Standard Plan A77Q1, Layout Type 12C and 12D on Standard Plan A77Q2, and Layout Type 12E on Standard Plan A77Q3.
5. For typical use of Connection Detail B, see Layout Type 12A (structure departure railing connection) on Standard Plan A77Q2 and Layout Type 12B on Standard Plan A77Q3.
6. Where the height of the bridge railing exceeds the height of the thrie beam railing by more than 1' at Connection Detail AA, taper the top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam rail.
7. For details of End Cap (Type TC), see Standard Plan A77U4.
8. Please standard Plan A77U4 for additional details regarding depth dimension for straight metal box spacer.