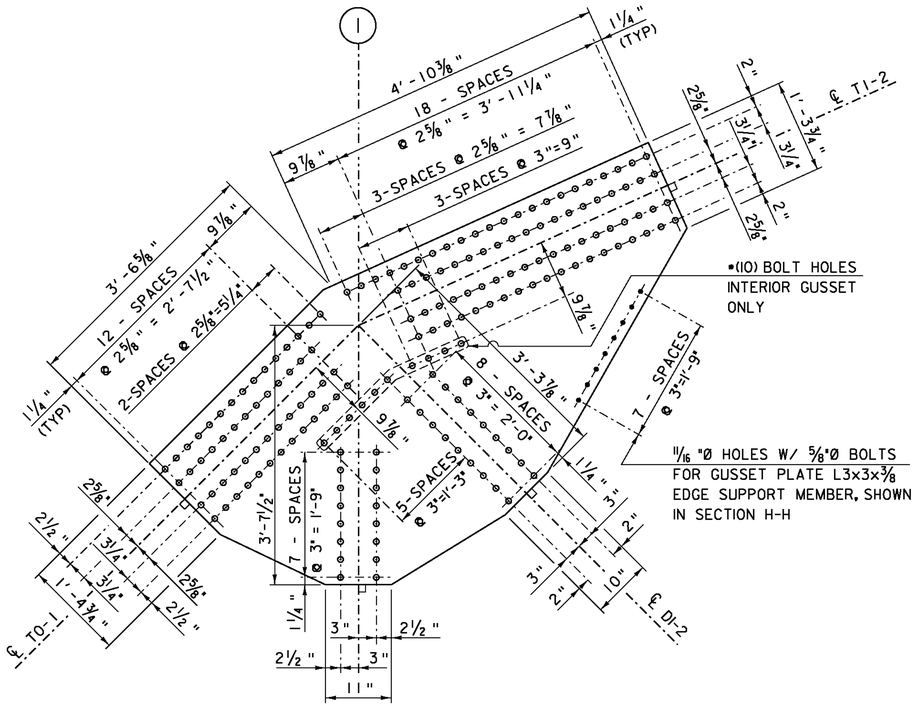
TRUSS CONNECTION & GUSSET PLATE NOTES:

1. ALL BOLTS SHALL BE 7/8" DIA. W/ HEAVY HEX NUT AND WASHER, UNLESS NOTED OTHERWISE. BEVELED WASHER ON TRUSS TOP CHORD CONNECTIONS SHALL BE SQUARE. BOLT HOLES SHALL BE 15/16" DIA. UNLESS NOTED OTHERWISE. PUNCHING OF HOLES SHALL NOT BE PERMITTED. ALL BOLT THREADS SHALL BE EXCLUDED FROM THE SHEAR PLANE.
2. BOTTOM CHORD GUSSET PLATES ARE 3/4" GALVANIZED STEEL PLATE, CONFORMING TO SECTION 714 GRADE 50, UNLESS NOTED OTHERWISE.
3. TOP CHORD GUSSET PLATES ARE 3/4" GALVANIZED STEEL PLATE, AASHTO M270 HIGH PERFORMANCE STEEL, GRADE HPS 70W, UNLESS NOTED OTHERWISE.
4. MINIMUM EDGE DISTANCE FROM ANY BOLT HOLE CENTER POINT IS 1.25" UNLESS NOTED OTHERWISE ON GUSSET PLATE OR CONNECTION DETAILS. STANDARD BOLT SPACING IS 3" UNLESS NOTED OTHERWISE.
5. THERE ARE A TOTAL OF (8) GUSSET PLATES FOR EACH DETAIL SHOWN, ONE INTERIOR AND ONE EXTERIOR FOR EACH END OF EACH TRUSS. BOLT PATTERN FOR INTERIOR AND EXTERIOR GUSSET PLATES VARY, SEE GUSSET PLATE DETAILS FOR VARIATIONS (*).
6. GUSSET PLATE CONNECTION BOLTS SHALL HAVE THEIR WASHER AND NUT INSTALLED ON THE INTERNAL SIDE OF EACH TRUSS CONNECTION. BOLT HEADS ARE TO BE PLACED ON THE VISIBLE, EXTERNAL FASCIA OF THE TRUSS GUSSET PLATE CONNECTIONS.
7. ALL PRIMARY TRUSS MEMBER GUSSET PLATES WILL BE (CVN) EXCEPT FOR BOTTOM CHORD GUSSET PLATES, WHICH SHALL BE DESIGNATED (FCM).
8. NO FIELD DRILLING, REAMING, OR CUTTING OF TRUSS OR CONNECTION MEMBERS. TRUSS AND CONNECTION MEMBERS MUST BE SHOP GALVANIZED, NO FIELD GALVANIZING PERMITTED.
9. SEE STRUCTURAL STEEL SECTION OF GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

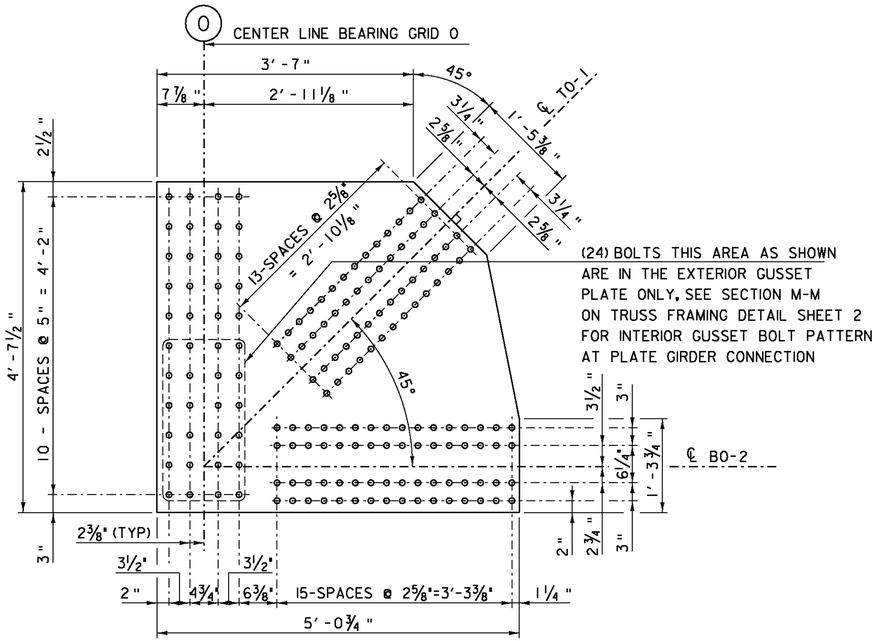


GUSSET PLATE DETAIL G1 TOP

SCALE 1" = 1'-0"

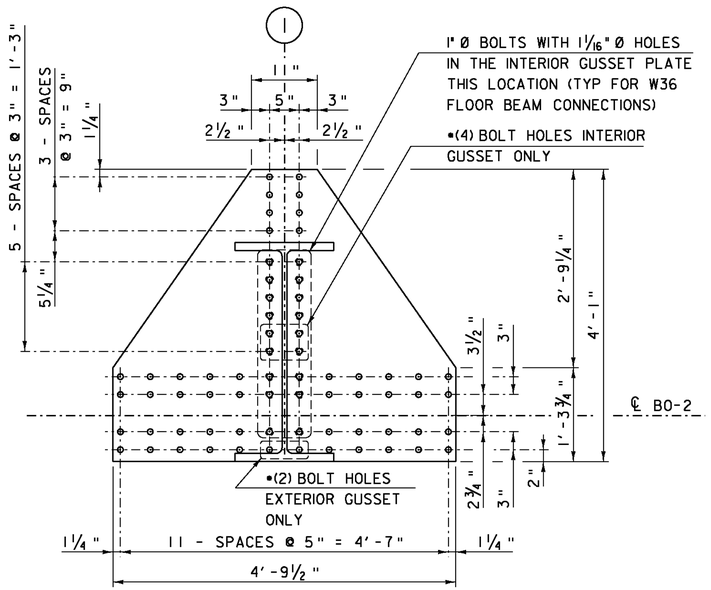
TRUSS STEEL MATERIAL SPECIFICATION NOTES:

1. ALL STANDARD W-SHAPE ROLLED STEEL PRODUCTS SHALL CONFORM TO SECTION 714 GRADE 50, WITH NO EXCEPTIONS.
2. ALL PLATE PRODUCTS USED IN THE TRUSS SHALL CONFORM TO SECTION 714 GRADE 50, WITH THE FOLLOWING EXCEPTIONS:
   a. TOP CHORD GUSSET PLATES SHALL BE AASHTO M270 HIGH PERFORMANCE STEEL, GRADE HPS 70W.
   b. END FLOORBEAM PLATE GIRDER SHALL BE AASHTO M270 HIGH PERFORMANCE STEEL, GRADE HPS 70W.
3. ALL SINGLE AND DOUBLE LEG ANGLE STANDARD ROLLED SHAPES SHALL CONFORM TO SECTION 714 GRADE 36, WITH THE FOLLOWING EXCEPTION:
   a. END FLOORBEAM CONNECTION ANGLES SHALL CONFORM TO SECTION 714 GRADE 50.
4. SHOP DRAWINGS SHALL INDICATE DIRECTION OF ROLL ON ALL PRIMARY STRESS CARRYING MATERIAL.



GUSSET PLATE DETAIL G0 BOTTOM

SCALE 1" = 1'-0"



GUSSET PLATE DETAIL G1 BOTTOM

SCALE 1" = 1'-0"

FILLER PLATE NOTES:

1. FILLER PLATES WILL BE SIZED SUCH THAT THEY ENGAGE ALL BOLTS THAT ARE USED IN THE CONNECTION BEING MADE. FILLER PLATES WILL HAVE BOLT EDGE AND END DISTANCES CONSISTENT WITH THOSE DISTANCES SPECIFIED FOR THE GUSSET PLATES.
2. FINAL FILLER PLATE THICKNESSES WILL BE SUCH AS ARE DETERMINED NECESSARY BY THE FABRICATOR FOR THE PURPOSE OF MAKING CONNECTIONS FIT PROPERLY. WHERE FILLER PLATES ARE REQUIRED THEY SHALL BE A SINGLE THICKNESS PLATE.
3. FABRICATION TOLERANCES WILL BE AS SPECIFIED IN THE CURRENT FABRICATION/WELDING CODES FOR STEEL PLATE PRODUCTS.
4. FILLER PLATES SHALL CONFORM TO SECTION 714 GRADE 50 AND WILL BE GALVANIZED. THEY WILL USE THE SAME MATERIAL AND GALVANIZING SPECIFICATION USED FOR THE PRIMARY TRUSS MEMBERS.

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PROJECT NUMBER:	BRF 022-1(14)
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PROJECT LEADER: M. EVANS-MONGEON	DRAWN BY: M. LONGSTREET
DESIGNED BY: N. VANDENBERG	CHECKED BY: S. SCRIBNER
TRUSS CONNECTION DETAIL SHEET 1	SHEET 90 OF 148