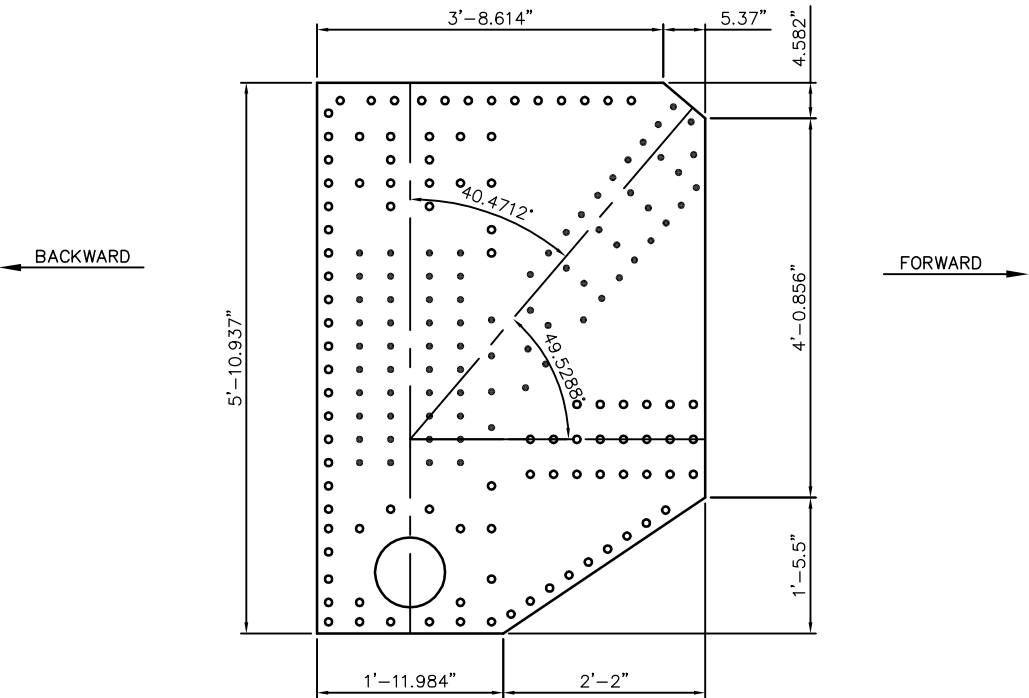
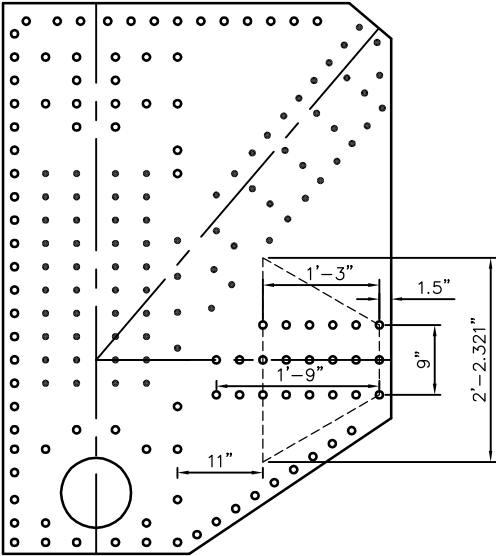


GUSSET PLATE CALCULATION L0

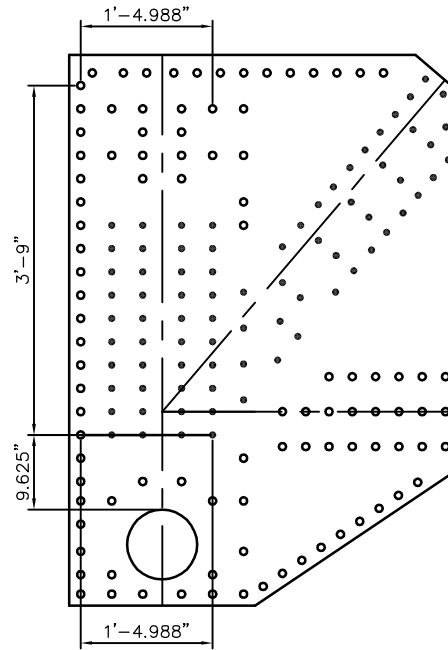


GENERAL GUSSET PLATE DIMENSIONS

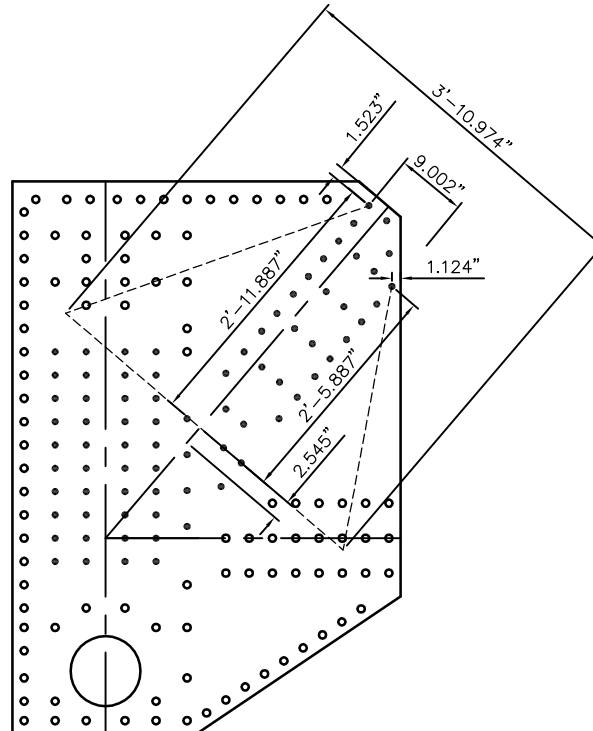


LOWER CHORD DIMENSIONS

GUSSET PLATE CALCULATION L0

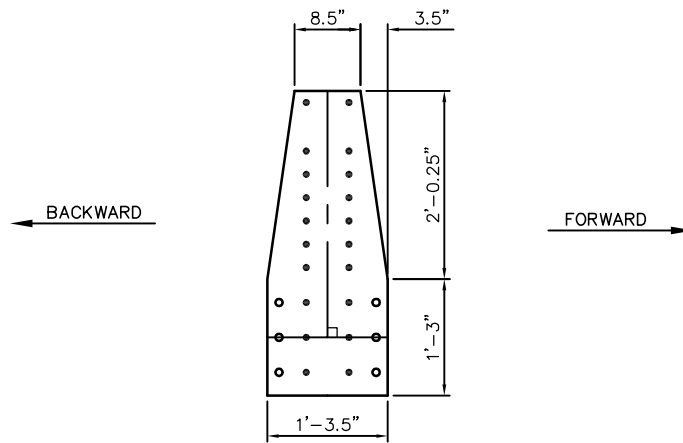


VERTICAL DIMENSIONS

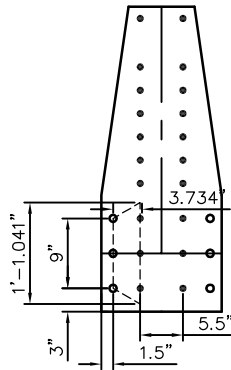


DIAGONAL DIMENSIONS

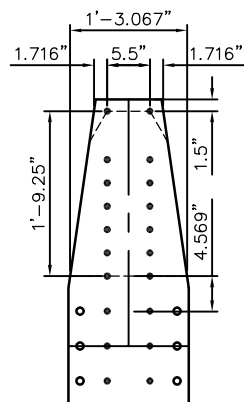
GUSSET PLATE CALCULATION L1



GENERAL GUSSET PLATE DIMENSIONS



LOWER CHORD DIMENSIONS



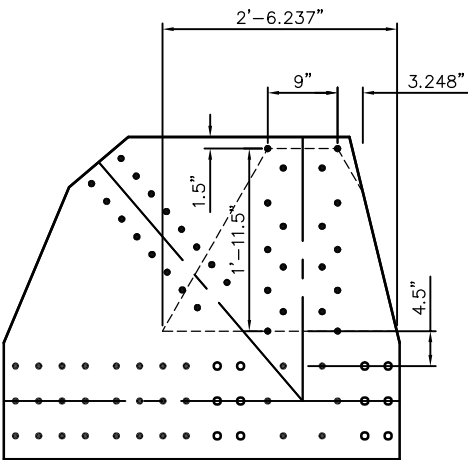
VERTICAL DIMENSIONS

Figure 1 shows the plan view of a rectangular building footprint. The footprint is 4'-2.992" wide and 1'-8.005" deep. The roof is 7.604" wide at the front, 2'-4.465" wide at the back, and 6.5" wide at the side. The roof slope is 40.5022°. The roof is divided into three sections: a central section with a width of 49.4978" and a side section with a width of 6.495". The roof is covered with a grid of dots representing a roof structure.

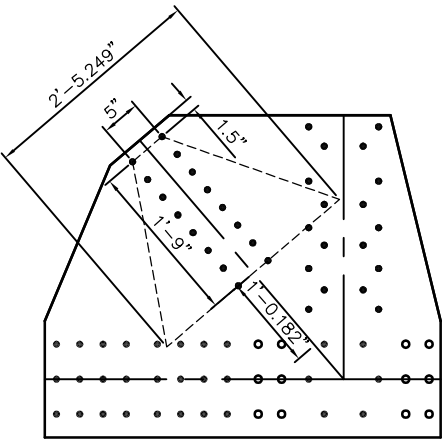
Technical drawing of a trapezoidal structure, likely a cross-section of a dam or retaining wall, showing dimensions and reinforcement details. The structure is defined by a top horizontal edge, a bottom horizontal edge, and two sloped sides. The left vertical dimension is 1'-5.196". The bottom horizontal dimension is 2'-8.205". The right vertical dimension is 9". The top horizontal dimension is 1'-11.492". The bottom horizontal dimension is 2'-10.996". The structure is reinforced with a grid of reinforcement bars (dashed lines) and a series of vertical reinforcement bars (solid lines). The reinforcement bars are labeled with dimensions: 9" (vertical spacing), 1.5" (horizontal spacing), 3.996" (horizontal spacing), 5" (horizontal spacing), and 1.5" (horizontal spacing). The reinforcement bars are labeled with dimensions: 9" (vertical spacing), 1.5" (horizontal spacing), 3.996" (horizontal spacing), 5" (horizontal spacing), and 1.5" (horizontal spacing). The reinforcement bars are labeled with dimensions: 9" (vertical spacing), 1.5" (horizontal spacing), 3.996" (horizontal spacing), 5" (horizontal spacing), and 1.5" (horizontal spacing).

LOWER CHORD DIMENSIONS

GUSSET PLATE CALCULATION L2

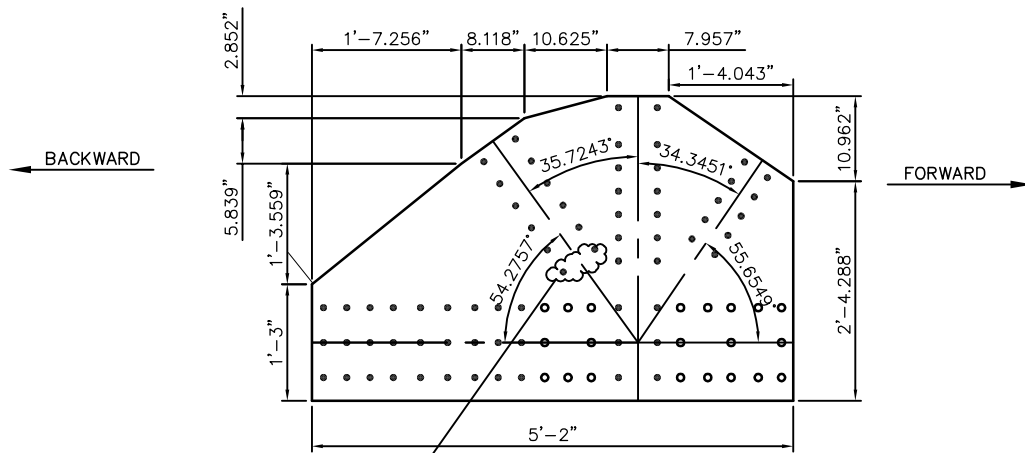


VERTICAL DIMENSIONS



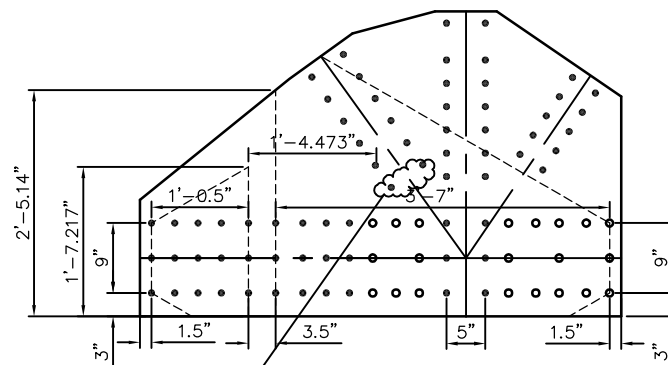
DIAGONAL DIMENSIONS

GUSSET PLATE CALCULATION L3



DIFFERS FROM PLANS, TOTAL NUMBER OF CONNECTORS INCREASED BY 4 RIVETS, BUT WHITMORE AND SHEAR LENGTHS LEFT AS ORIGINAL NUMBERS (CONSERVATIVE)

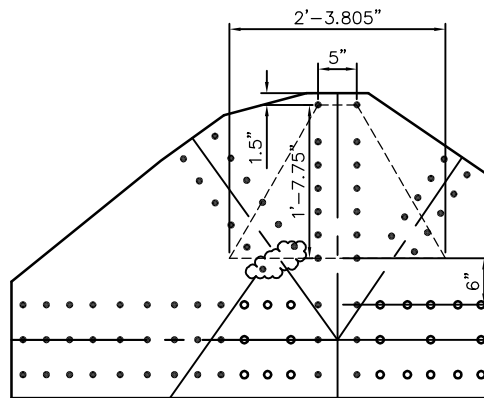
GENERAL GUSSET PLATE DIMENSIONS



DIFFERS FROM PLANS, TOTAL NUMBER OF CONNECTORS INCREASED BY 4 RIVETS, BUT WHITMORE AND SHEAR LENGTHS LEFT AS ORIGINAL NUMBERS (CONSERVATIVE)

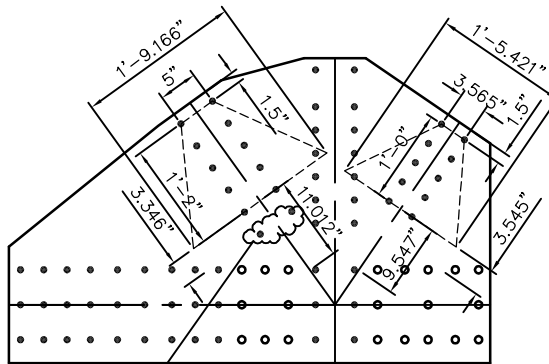
LOWER CHORD DIMENSIONS

GUSSET PLATE CALCULATION L3



DIFFERS FROM PLANS, TOTAL NUMBER OF CONNECTORS INCREASED BY 4 RIVETS, BUT WHITMORE AND SHEAR LENGTHS LEFT AS ORIGINAL NUMBERS (CONSERVATIVE)

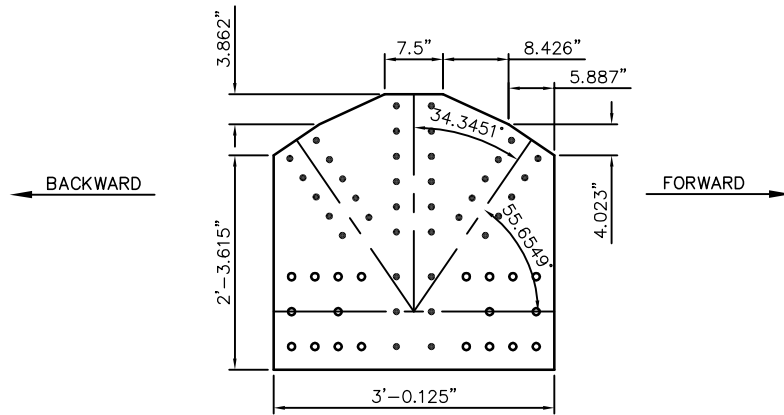
VERTICAL DIMENSIONS



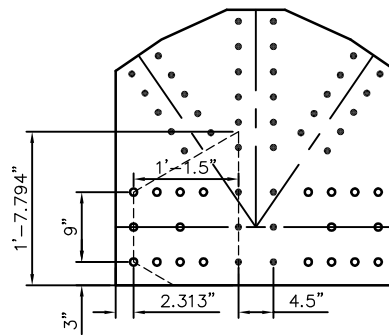
DIFFERS FROM PLANS, TOTAL NUMBER OF CONNECTORS INCREASED BY 4 RIVETS, BUT WHITMORE AND SHEAR LENGTHS LEFT AS ORIGINAL NUMBERS (CONSERVATIVE)

DIAGONAL DIMENSIONS

GUSSET PLATE CALCULATION L4

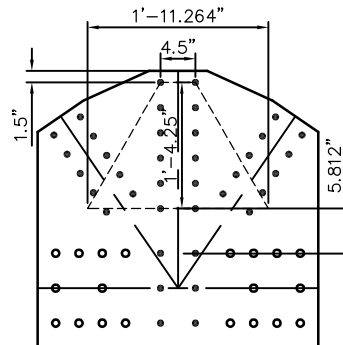


GENERAL GUSSET PLATE DIMENSIONS

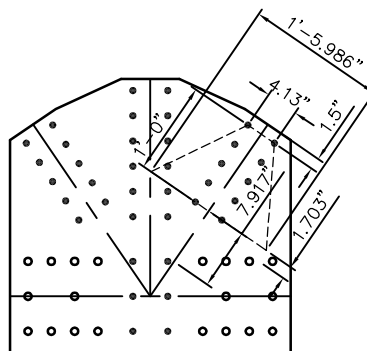


LOWER CHORD DIMENSIONS

GUSSET PLATE CALCULATION L4

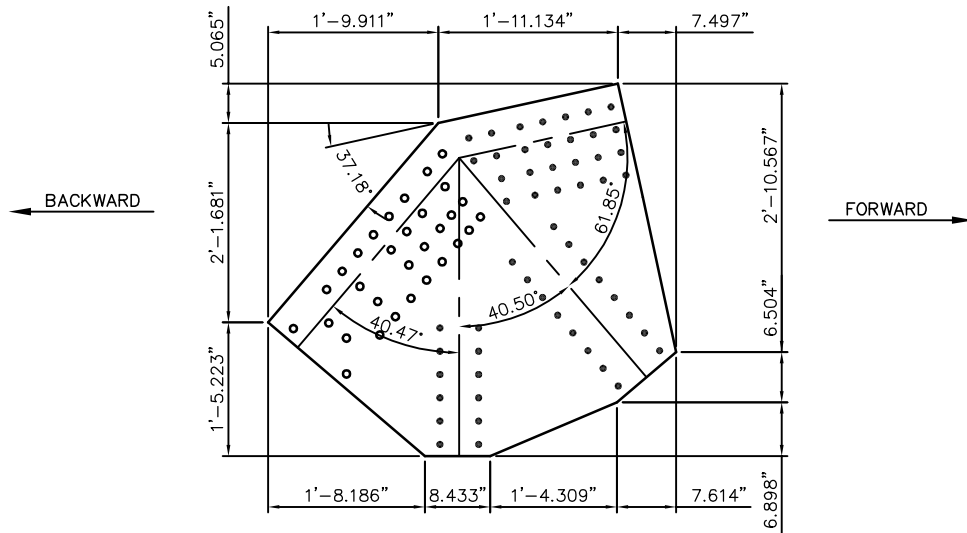


VERTICAL DIMENSIONS

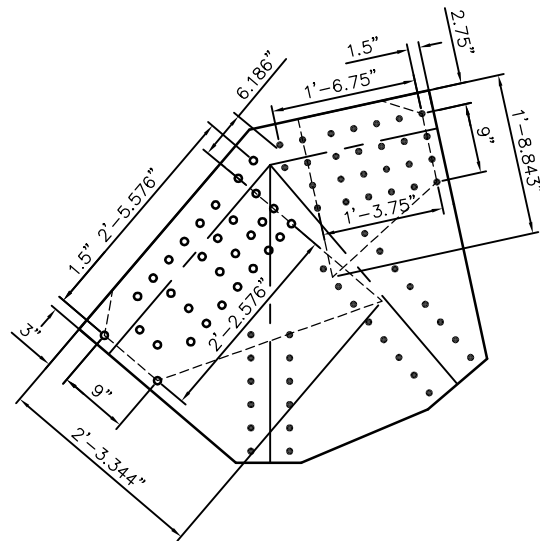


DIAGONAL DIMENSIONS

GUSSET PLATE CALCULATION U1

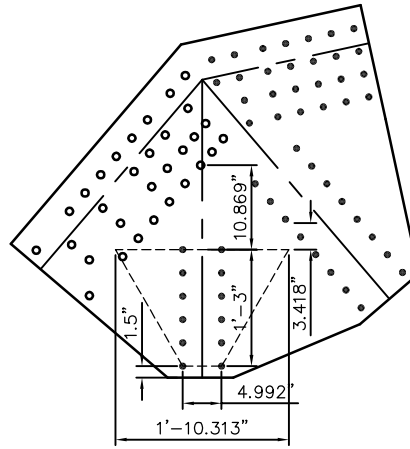


GENERAL GUSSET PLATE DIMENSIONS

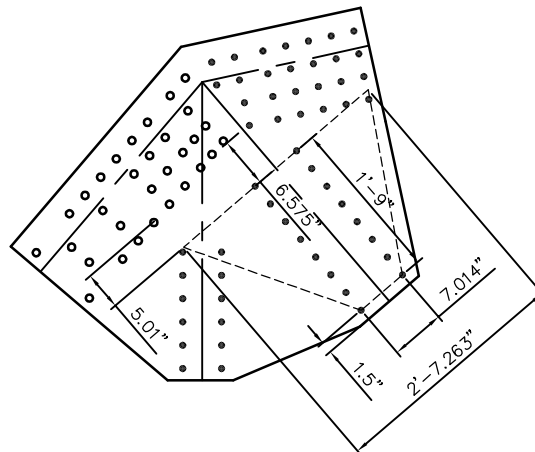


UPPER CHORD DIMENSIONS

GUSSET PLATE CALCULATION U1

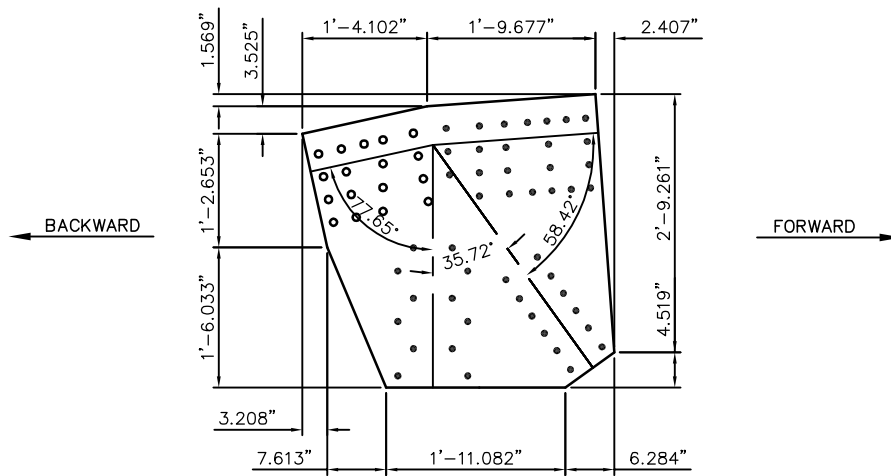


VERTICAL DIMENSIONS

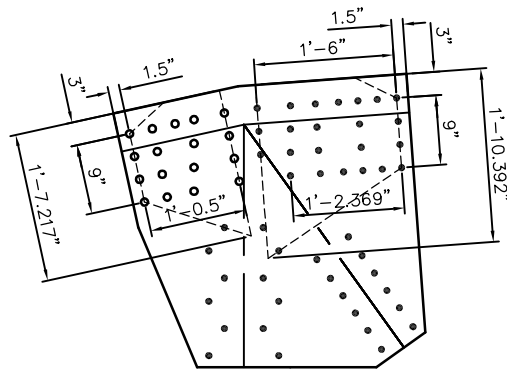


DIAGONAL DIMENSIONS

GUSSET PLATE CALCULATION U2

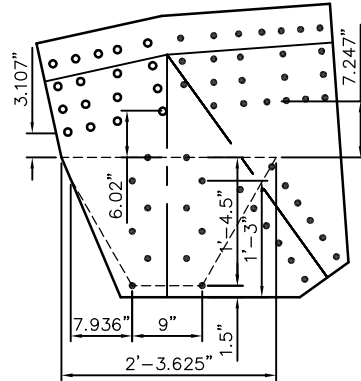


GENERAL GUSSET PLATE DIMENSIONS

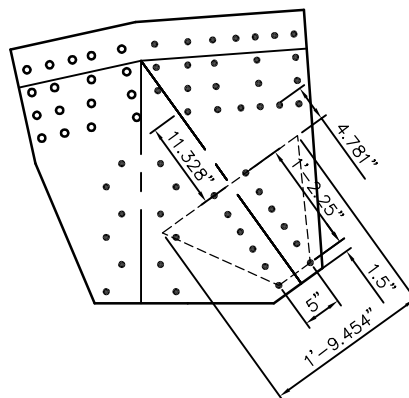


UPPER CHORD DIMENSIONS

GUSSET PLATE CALCULATION U2

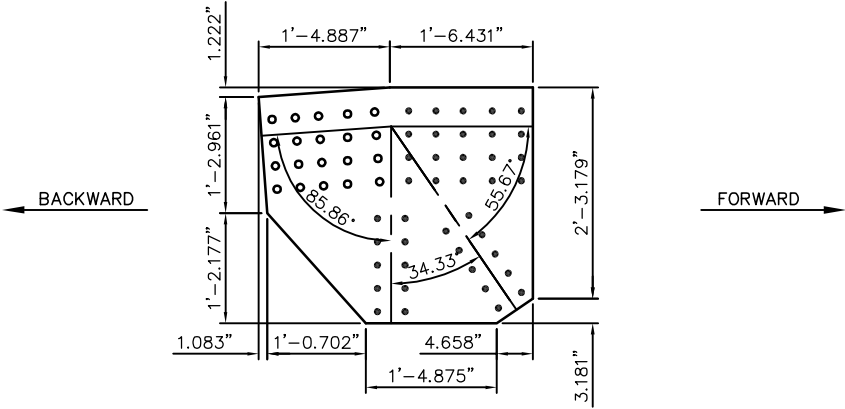


VERTICAL DIMENSIONS

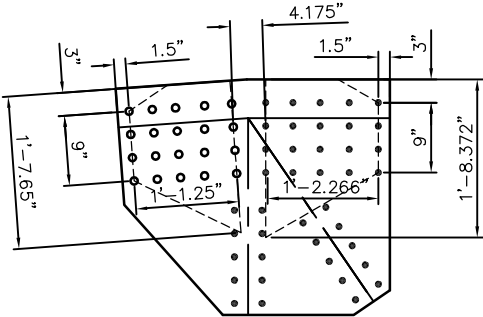


DIAGONAL DIMENSIONS

GUSSET PLATE CALCULATION U3

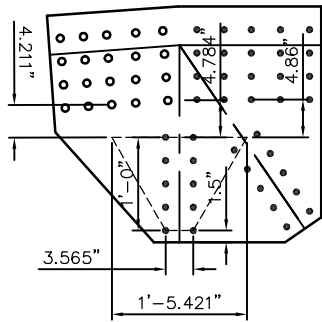


GENERAL GUSSET PLATE DIMENSIONS

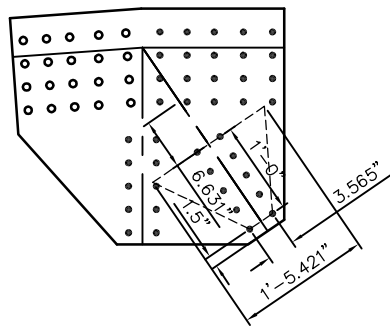


UPPER CHORD DIMENSIONS

GUSSET PLATE CALCULATION U3

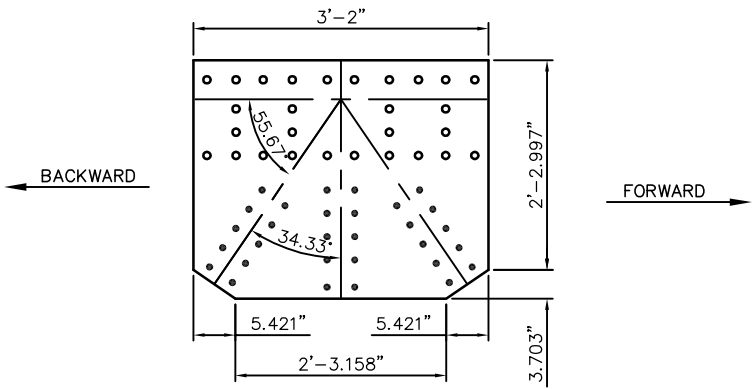


VERTICAL DIMENSIONS

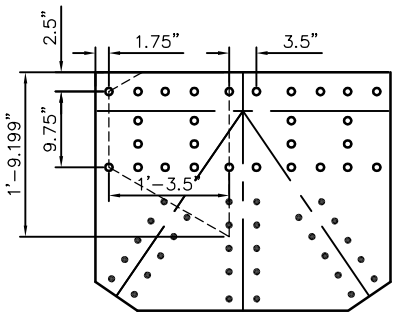


DIAGONAL DIMENSIONS

GUSSET PLATE CALCULATION U4

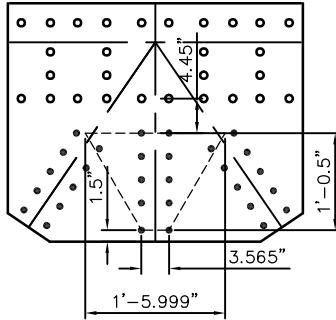


GENERAL GUSSET PLATE DIMENSIONS

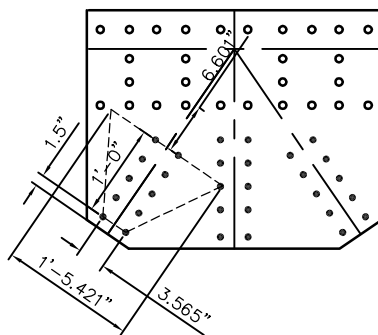


UPPER CHORD DIMENSIONS

GUSSET PLATE CALCULATION U4



VERTICAL DIMENSIONS



DIAGONAL DIMENSIONS