

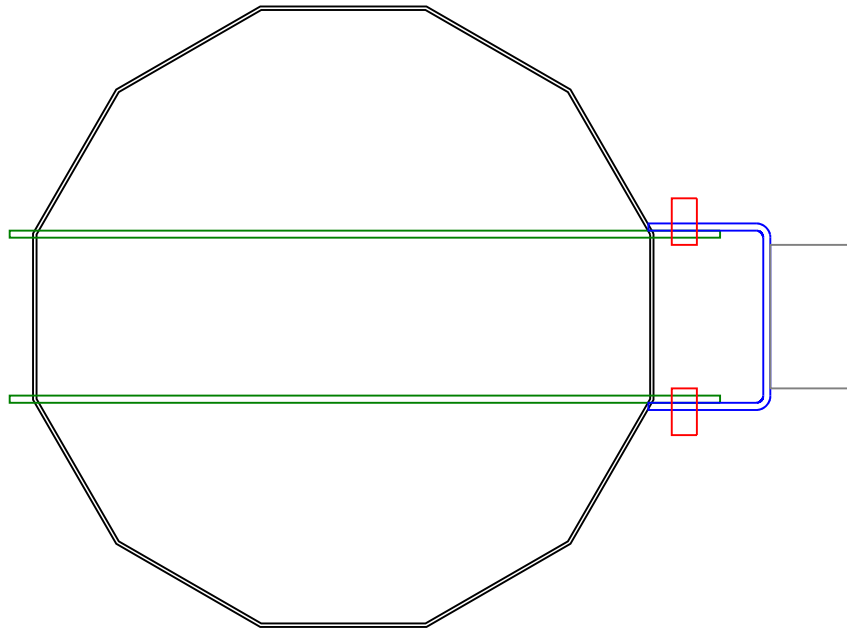


K2 Engineering, Inc.

5549 Hunters Hill Road
Irondale, AL 35210-3036
Phone: (205) 951-3825 Fax: (205) 951-3825
e-mail: rkiser@k2engineeringinc.com
web address: www.k2engineeringinc.com

Customer Name: test customer
Project Number: test project
Project Description: test description
Site Name: test site
Job Number: J12345
Structure Number: S123

Bolts meet design criteria? True Worst Case Bolt Load Combination = 0.873
Pole Vang meets design criteria? True Worst Case Pole Vang Block Shear Stress = 23.075 ksi
Arm Connection meets design criteria? True Worst Case Arm Connection Block Shear Stress = 23.075 ksi
Pole Vang Edge Criteria Violated? False
Arm Connection Edge Criteria Violated? False

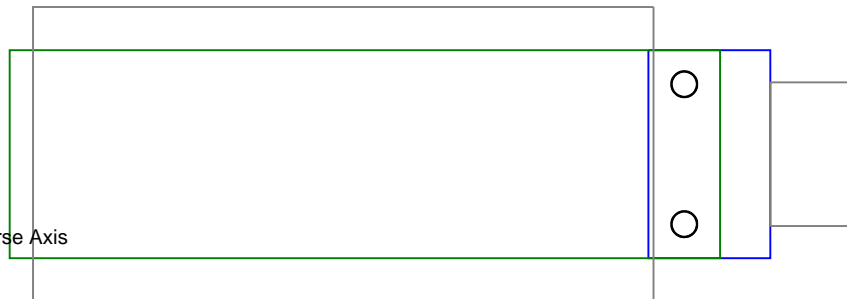


Pole Data

Pole type: Transmission
Pole Shape: 12F - 12 Sides, Flat on Transverse Axis
Pole Material: A572-50
Pole Wall Thickness: 0.25000 in
Pole Flat/Flat Width: 43.2261 in

Arm Connection Data

Connection Type: U-shaped Bracket
Plate Material: A572-50
Plate Thickness: 0.50000 in
Plate Depth: 14.5000 in
Bolt Offset from Free Edge: 2.5000 in
Bolt Offset from Arm Butt: 6.0000 in
On Outside of Vang Plates?: True
Outer Bend Radius: 1.0000 in
Arm Shape: 8F - 8 Sides, Flat on Transverse Axis
Arm Flat/Flat Width: 10.0000 in



Pole Vang Data

Plate Material: A572-50
Plate Thickness: 0.50000 in
Plate Depth: 14.5000 in
Plate Length: 49.5000 in
Outside/Outside Distance: 12.0000 in
Bolt Diameter: 1.7500 in
Bolt Grade: A325
Bolt Min Spacing: 4.6670 in
Bolt Min Edge Distance: 2.1875 in
Bolt Layout: 2 Bolts
Near End Bolt Edge Distance: 2.5000 in
Bolt Offset from Pole Centerline: 23.7500 in
Bolt Spacing - Dimension 1: 9.7500 in
Bolt Spacing - Dimension 2: 0.0000 in