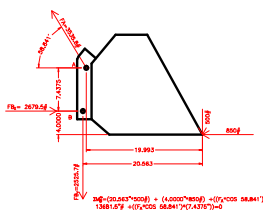


ΣME=(20.563"*500#) + (4.0000"*850#) +((FA*COS 58.841°)*(7.4375")=0
13681.5"# +((FA*COS 58.841°)*(7.4375")=0

13681.5"# +((FA*COS 58.841°)*(7.4375")=0
-((FA*COS 58.841°)*(7.4375")) -((FA*COS 58.841°)*(7.4375"))

13681.5"# = -((FA*COS 58.841°)*(7.4375"))

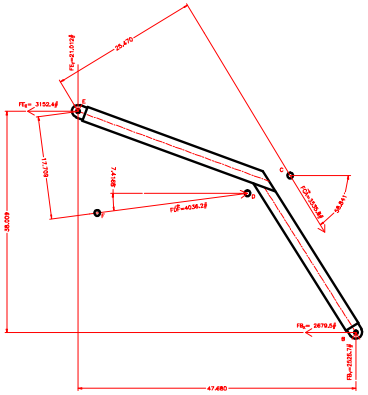
$$\frac{13681.5"\#}{7.4375"} = \frac{-((F_A*\cos 58.841°)*(7.4375"))}{7.4375"}$$

$$\frac{1839.5\#}{\cos 58.841°} = \frac{-F_A*\cos 58.841°}{\cos 58.841°}$$

3535.8# = -FA
-3535.8#=FA

ΣFX=-850# + (-3535.8#*COS 58.841°) + FB=0
-2679.5# + FB= 0
-FB= -FB
-2679.5#= -FB
2679.5#=FB

ΣFY=-500# + (+3535.8#*SIN 58.841°) - FB=0
-2525.7 - FB= 0
+FB= +FB
-2525.7=FB



ΣME=(FB*47.480') + (FB*38.029') -((FCR*25.470') + (FDF*17.709")=0
(-2525.7#*47.480') + (2679.5#*38.029") +(3535.8#*25.470) + (-FDF*17.709")=0

71477"# + (-FDF*17.709")= 0
-(-FDF*17.709") -(-FDF*17.709")

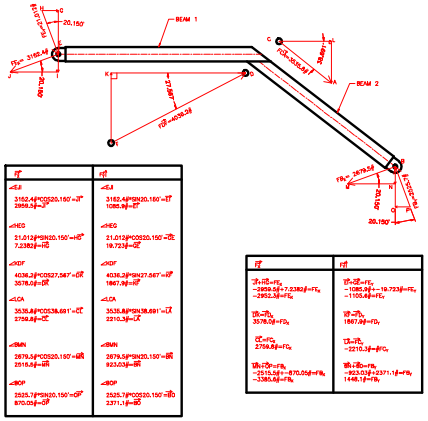
$$\frac{71477"\#}{17.709"} = \frac{-FDF*17.709"}{17.709"}$$

4036.2# = -FDF
-4036.2# = FDF

ΣFX=FBX + FCX + FDX + FEX=0
-2679.5# + (3535.8#* COS 58.841°) + (4036.2#*COS7.4168°) + (-FEX)=0

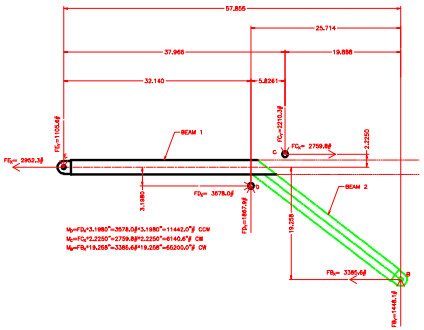
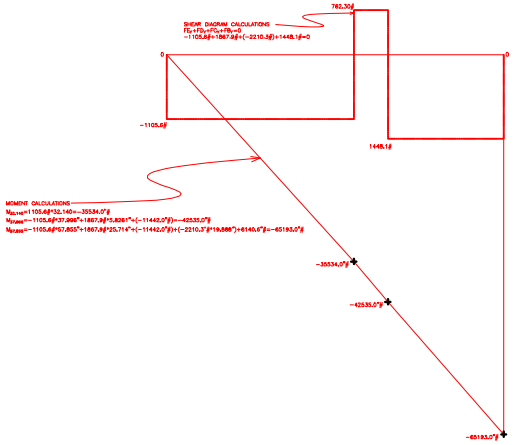
3152.4"# + (-FEX)= 0
+ (-FEX) - (-FEX)
3152.4"# = (-FEX)
-3152.4"# = FEX

ΣFY=FBY + FCY + FDY + FEY=0
2525.7# + (-3535.8#*SIN58.841°) + (4036.2#SIN7.4168°) + FEY=0
21.012# + FEY= 0
-FEY -FEY
21.012# = -FEY
-21.012# = FEY



ΣMA	ΣMB
↺EJ	↺EJ
3152.4#*COS20.150°=JH	3152.4#*SIN20.150°=IT
2959.5=JH	1085.8#=ET
↺HEG	↺HEG
21.012#*SIN20.150°=HG	21.012#*COS20.150°=RE
7.2382#=HG	19.723#=QE
↺KDF	↺KDF
4036.2#*COS27.567°=DK	4036.2#*SIN27.567°=DF
3578.0#=DK	1867.8#=DF
↺CA	↺CA
3535.8#*COS38.691°=CT	3535.8#*SIN38.691°=CX
2759.8#=CT	2210.3#=CX
↺MN	↺MN
2679.5#*COS20.150°=MR	2679.5#*SIN20.150°=MS
2515.8#=MR	923.03#=MS
↺OP	↺OP
2525.7#*SIN20.150°=OP	2525.7#*COS20.150°=OQ
870.05#=OP	2371.1#=OQ

ΣFX	ΣFY
JH+HG=FX	JT+HE+EF=FY
-2959.5#+7.2382#=FX	-1085.8#+19.723#=FY
-2952.3#=FX	-1105.4#=FY
XB=FB	YB=FB
3578.0#=FB	1867.8#=FB
CT=FC	CX=FC
2759.8#=FC	-2210.3#=FC
XB+CT=FB	YB+CX=FB
-2515.8#=-870.05#=FB	-923.03#+2371.1#=FB
-3385.8#=FB	1448.1#=FB



MB=FD*3.1880"=3578.0#*3.1880"=11442.0"# CCW
MC=FC*2.2250"=2759.8#*2.2250"=6140.6"# CW
MB=FB*19.258"=3385.4#*19.258"=65200.0"# CW