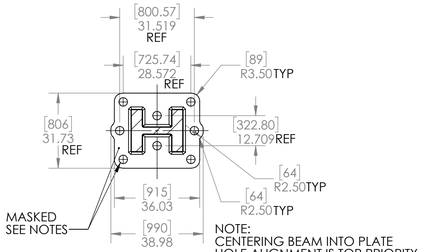
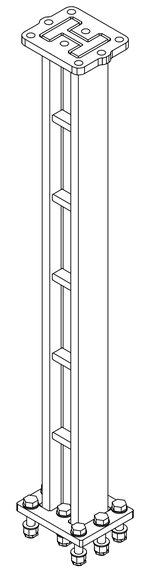
ITEM NO.	PART NUMBER	DESCRIPTION	WEIGHT	QTY.
1	W14X665 3 20210420 S1	W14x665 BEAM	14204	1
2	Plate beam found bolt asm 1 20210405 S1			1
	Plate found W14x665 1 20210324 S1	BEAM-PLATE STD FOR W14x665 ABOVE GRADE, Y=0		1
	Bolt ASM 3.5in HD 14.5in 1 20210405 S1			8
	bolt 3.5in HD 1 20210310 S1			1
	nut 3.5in HD 1 20210310 S1			1
	wash 3.5in HD 1 20210310 S1			2
	nut 3.5in HD 1 half 20210310 S1			1
3	Plate w14x665 ASM 1 20210310 S1			1
	Plate base W14x665 1 20210309 S1			1
4	Rib w14x665 1 20210420 S1	ANTI-TWIST RIB/S	75	10

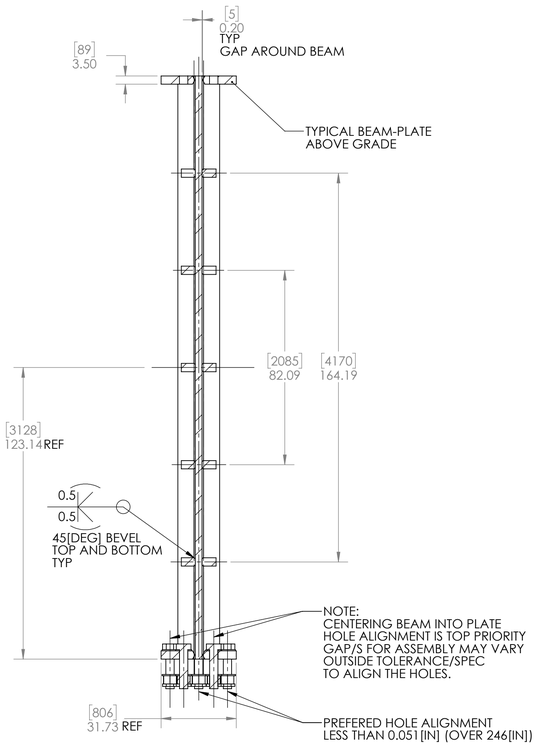
TOTAL WIEGHT 17424[LBF]



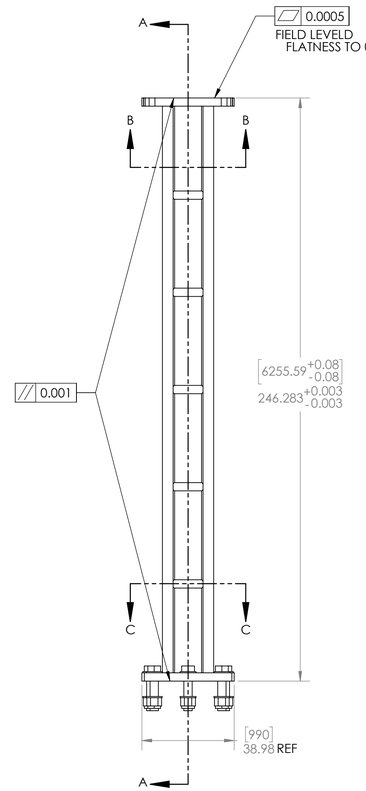
NOTE:
CENTERING BEAM INTO PLATE
HOLE ALIGNMENT IS TOP PRIORITY
GAP/S FOR ASSEMBLY MAY VARY
OUTSIDE TOLERANCE/SPEC
TO ALIGN THE HOLES.

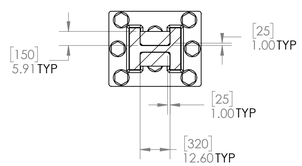
SECTION B-B





SECTION A-A





SECTION C-C

NOTES:
NO SHARP EDGES, DULLED TO MINIMUM (1/128)"
BEAM/S ASTM A913 G65, Sy 65[KSI]
PLATE/S AISI 1045, Sy GREATER THAN 75[KSI]
BEAM ASSEMBLY GALVINIZED ASTM A123 G100
  BEAM-PLATE TOP
  BEAM-PLATE BOTTOM
  BEAM-W14x665
ANCHOR-HOOK ASSEMBLY
  WELDED TOGETHER
  GALVINIZED OR OTHER RUST PROTECTIVE MEASURE/S
REBAR GALVINIZED ASTM A123 G100
BOLTS/NUTS/WASHERS GRADE 8, GALVINIZED
BEAM-PLATE MATING SURFACES TO BE MASKED
  TOP
  BOTTOM
  BOLT HOLES
JUST PRIOR TO ASSEMBLY
  REMOVE PROTECTIVE POLY-FILM
  ADD THIN FILM OF HIGH VISCOSITY OIL, SAE 50+
    NO AGGLOMERATION/POOLING TO AFFECT LEVELING

EXAMPLE AMBIENT TEMP [F]	EXAMPLE AMBIENT TEMP [C]	T6061-T6 dL PER 1000[IN]	T6061-T6 dL PER 1000[mm]
45.00	7.22	-0.183	-4.658
59.00	15.00	0.0	0.0
86.00	30.00	0.354	8.984

EXAMPLE:
LET DIM = 47.125[IN] (T6061-T6)
dL = 0.000013 [(86 - 59)47.125
dL = 0.0167[IN] [0.4234[mm]]

AT 86[F] THE DIMENSION OF THE PART IS 47.125 + 0.0167 =47.1429[IN]

GALVONIC PROTECTION REQUIRED:
ALUMINIZE TYPE II PREFERRED
GALVINIZE G100 ACCEPTABLE
THERMAL SPRAY AS/FOR ASSEMBLED

UNLESS OTHERWISE SPECIFIED:
TOLERANCES:
DIMENSIONS TAKEN AT 59[F]
DIMENSIONS TAKEN AT 15[C]
FRACTIONAL±0.13[%]
ANGULAR: 0.3[DEG]
TWO PLACE DECIMAL ±0.05[IN]
THREE PLACE DECIMAL ±0.005[IN]
VERIFICATION OF COMPONENTS MUST BE PERFORMED WITH TEMPERATURE COMPENSATION
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5
PARALLEL PLANES MAX 0.002[IN]
FLATNESS MAX 0.002[IN]
FINISH: AS REQUIRED

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

GAUGE/S:
DRAWINGS ARE AT 59[F] (15[C]): REFER TO MATERIAL SUPPLIER FOR THERMAL EXPANSION COEFFICIENT (CTE)
dL[ENG] = (DIM)*(CTE[1/R])*(TEMP-59)
dL[SI] = (DIM)*(CTE[1/K])*(TEMP-15)
***TOLERANCES DO NOT CHANGE

CREO DESIGNS, ENG DPT

TITLE: GLORIOUS CROSS
FOUNDATION BEAM
FOR TRANSITION

SIZE	DWG. NO.	REV
D	B - 009	1

SCALE: 1:32 SHEET 1 OF 1