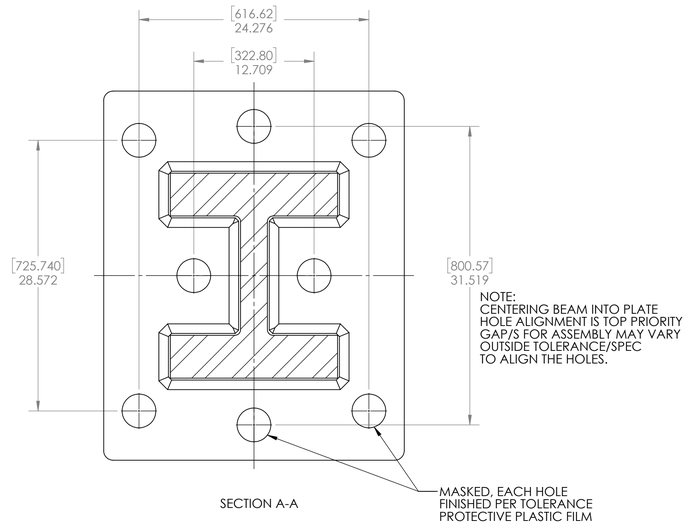
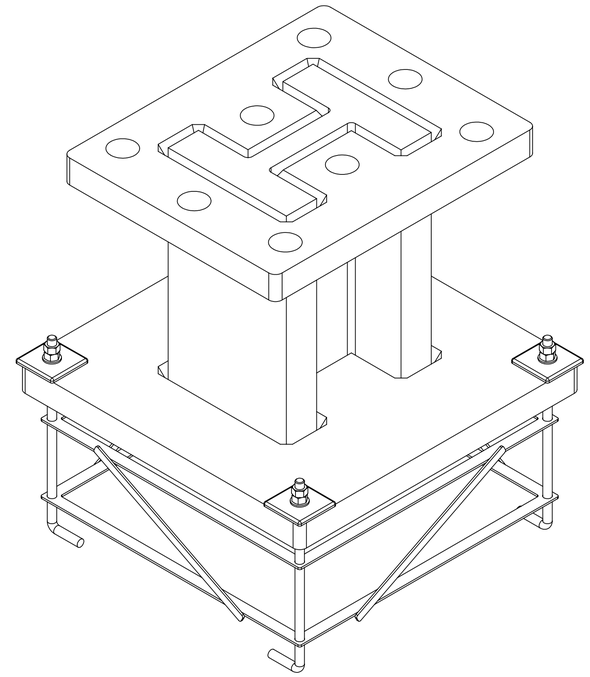
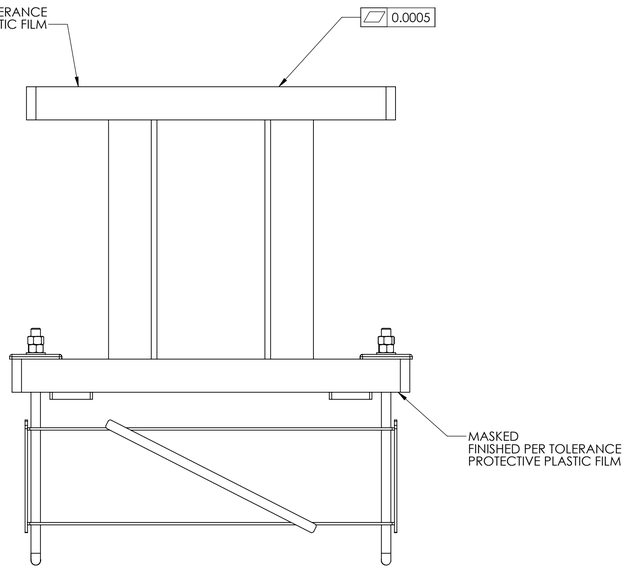
ITEM NO.	PART NUMBER	DESCRIPTION	WEIGHT	QTY.
1	W14X665 2 20210324 S	W14x665 BEAM	1860	1
2	Plate found W14x665 1 20210324 S	TYPICAL BEAM-PLATE FOR FOUNDATION	1049	1
3	Plate found anch bolt asm 1 20210413 S			1
3.1	Plate found W14x665 2 20210413 S	FIRST COLUMN BEAM-PLATE FOR ALIGNMENT, Y=-500[IN]	1646	1
3.2	Bolt Anchor found 1in 8tpi 1 20210413 S			4
3.2.1	91603A440			1
3.2.2	93827A277			2
3.2.3	98180A240			1
3.2.4	Washer plate 1in 1 20210413 S			1
3.2.5	Mortar slug 1 20210413 S			1
3.3	Plate found anch bolt align 1 20210413 S			2
3.4	Plate found anch bolt align 2 20210415 S			4
3.5	Shim pack found 1 20210505 S			4

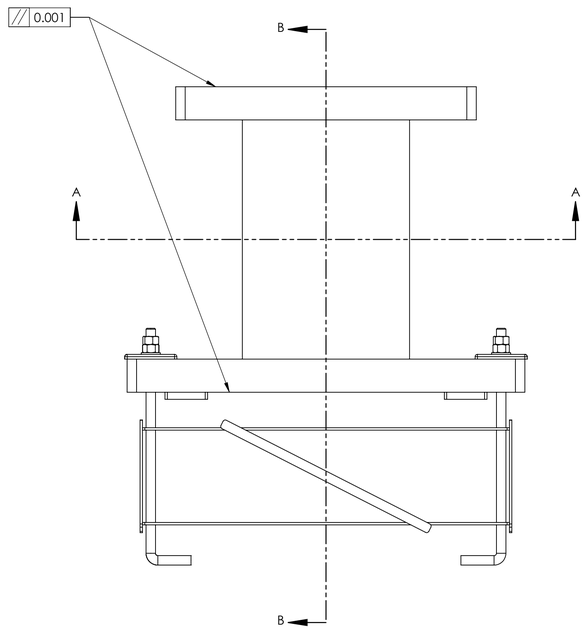
TOTAL WEIGHT: 4655[LBF]

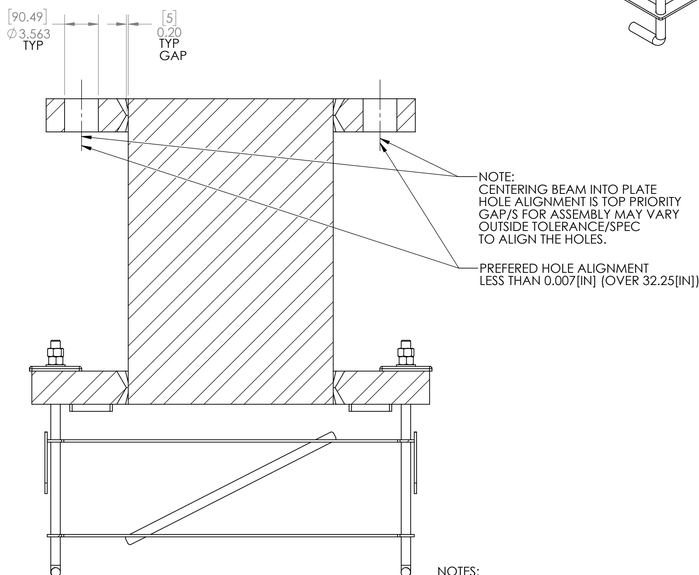


SECTION A-A









SECTION B-B

NOTES:
NO SHARP EDGES, DULLED TO MINIMUM (1/128)"
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
BEAM-PLATE MATING SURFACES TO BE MASKED
  TOP
  BOTTOM
  BOLT HOLES
JUST PRIOR TO ASSEMBLY
  REMOVE PROTECTIVE 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 = 0.0000131(86 - 59)47.125
dL = 0.0167[IN] (0.4234[mm])

AT 86[F] THE DIMENSION OF THE PART IS 47.125 + 0.0167 =47.142[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.		

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

CREO DESIGNS, ENG DPT

TITLE: GLORIOUS CROSS

FOUNDATION BEAM 1

SIZE	DWG. NO.	REV
D	B - 004	1

SCALE: 1:8 | SHEET 1 OF 1