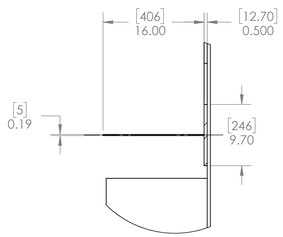
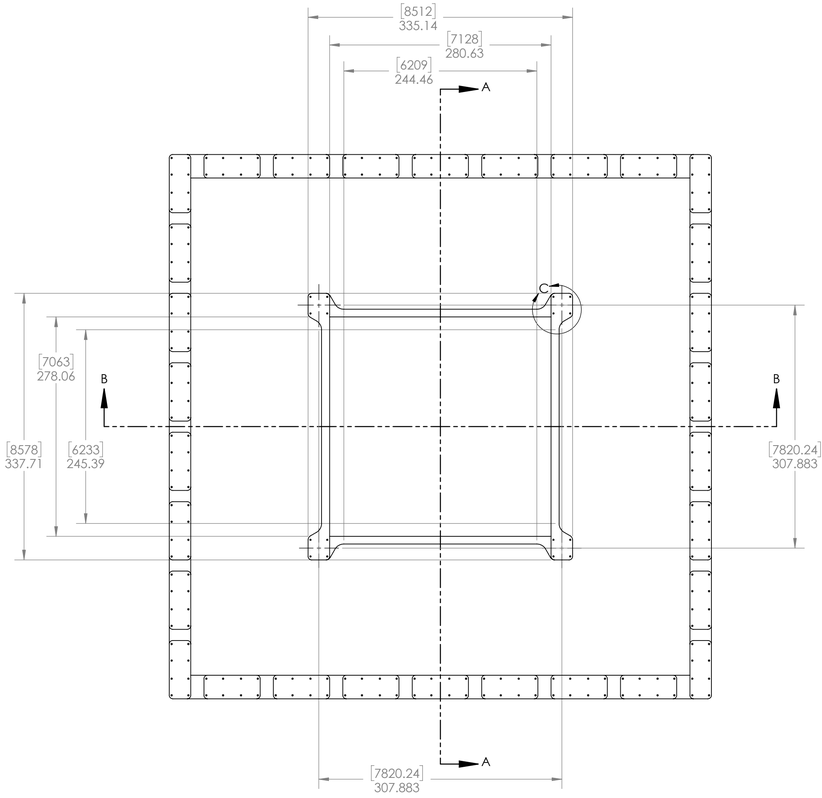
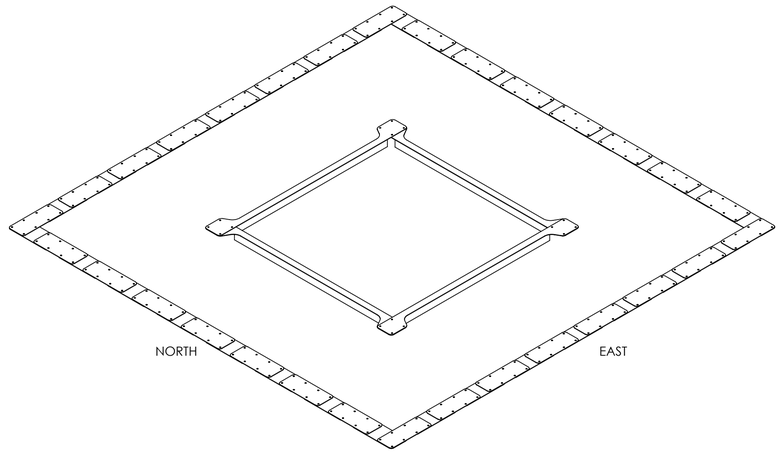
ITEM NO.	PART NUMBER	DESCRIPTION	WEIGHT	QTY.
1	Plate connect 1 20210527 w193 cH3 H4 H5	(1/2)[IN] THICK EAST/WEST, dX CONNECTION PLATE		30
2	Plate connect 2 20210527 w193 cH3 H4 H5	(1/2)[IN] THICK NORTH/SOUTH, dZ CONNECTION PLATE		30
3	Conct inner 1 20210729 H5	(1/2)[IN] THICK EAST/WEST, INNER CONNECTION PLATE		2
4	Conct inner 1 20210729 H5	(1/2)[IN] THICK NORTH/SOUTH, INNER CONNECTION PLATE		2

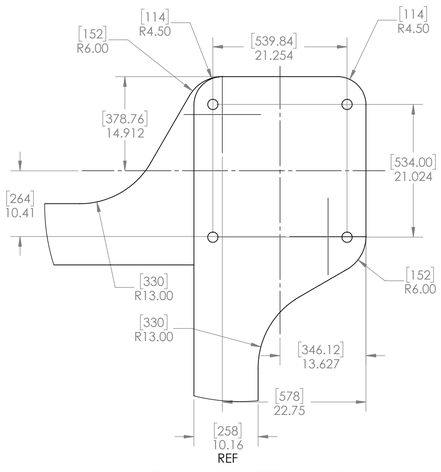


DETAIL D
SCALE 1 : 12

SECTION A-A

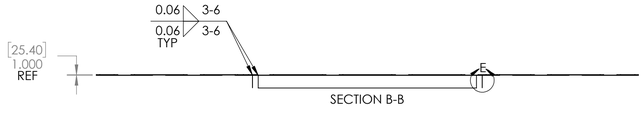




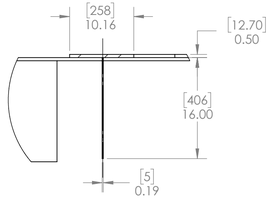


TYPICAL HOLE PATTERN LAYOUT

DETAIL C
SCALE 1 : 12



SECTION B-B



DETAIL E
SCALE 1 : 12

NOTE/S:
NO SHARP EDGES/CORNERS
ALUMINIZATION TYPE II (PREF)
GALVINIZATION ASTM 123, G100 (OPTION)
MASKING OF MATING SURF REQ
PRIOR TO ASM
APPLY OIL-SHEEN, SAE 50+ TO BEAR SURFACE/S
PROTECTIVE POLY-SHEET OR OTHER FOR SHIPPING
AISI 1045, Sy 75[KSI]
FLATNESS 0.0003[IN]
PARALLEL 0.0002[IN]
CAD IS MASTER

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 = 0.000013139(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/PER ASSEMBLED

UNLESS OTHERWISE SPECIFIED:
TOLERANCES:
DIMENSIONS TAKEN AT 59[F]
DIMENSIONS TAKEN AT 15[C]
FRACTIONAL±0.13[1/5]
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 COEFFICENT (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

HEAD - CONNECTION PLATE/S, C162 THRU C172

SIZE	DWG. NO.	REV
D	P - 008	1
SCALE: 1:96		SHEET 1 OF 1