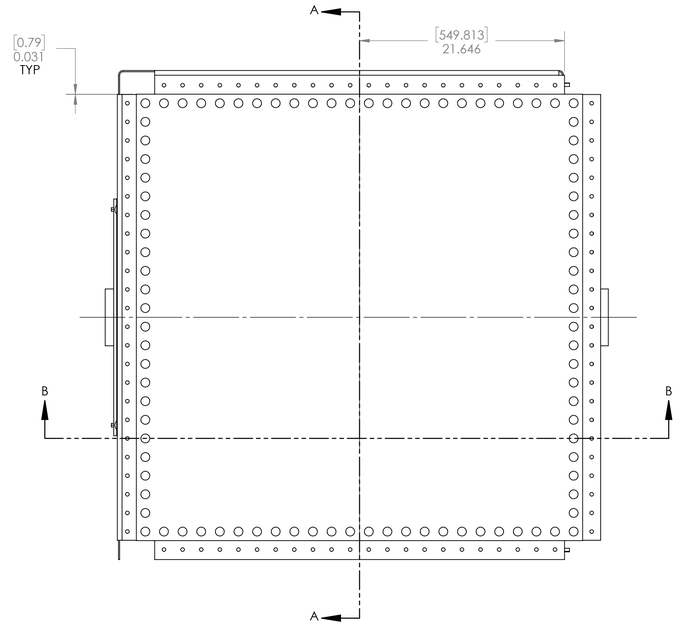
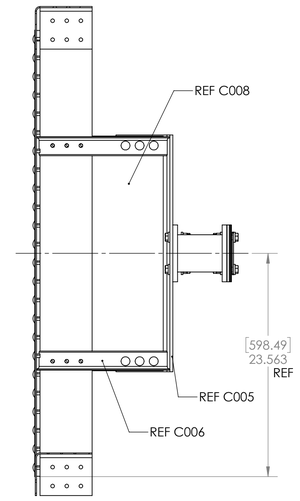
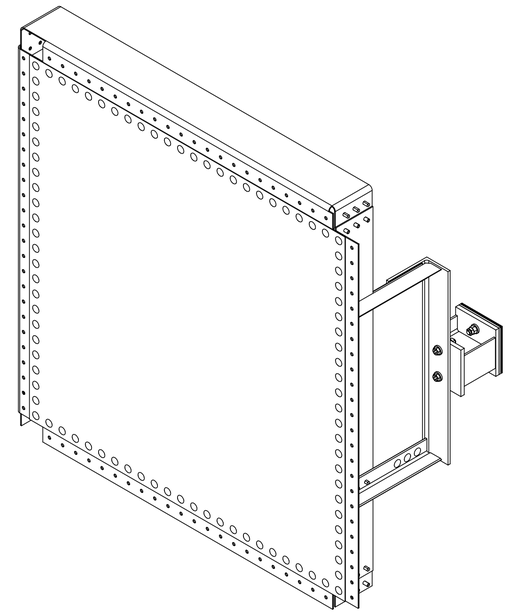
ITEM NO.	PART NUMBER	DESCRIPTION	WEIGHT	QTY.
1	Panel sq 47.125in wRivet 20210107 S			1
1.1	Panel sq 47.125in 20200513 S			1
1.2	Rivet Brazier head for Panel 20200510 S	(3/8)[IN] BRAZIER HEAD RIVET WORKING THICKNESS (WT) 0.188[IN]		92
2	Rib 31 ASM 20210118 S			2
2.1	Rib 31 20210118 S			1
2.2	L2x2x0.125 3 20210118 S			1
2.3	L2x2x0.125 3 20210118 S			1
2.4	Plate Pnl sup 2 20210118 S			1
2.5	Rivet Brazier 2t +0.0625 20210107 S			6
2.6	Rivet Brazier t+0.31+0.0625 20210104 S			6
2.7	LS6x3.5x0.312 2 20210118 S			1
2.8	W6x9 ASM pnl sup 1 20210118 S			1
2.8.1	W6x9 1 20210118 S	FRONT/BK I-BEAM W6X9		1
2.8.2	Plate pnl sup 3 20210118 S			2
2.8.3	Shim plate ASM 30 20210120 S			1
2.8.3.1	Shim Plate 30 1 pnl 20210120 S			1
2.8.3.2	Shim Plate 30 2 pnl 20210120 S			1
2.8.3.3	Shim Plate 30 3 pnl 20210120 S			1
2.8.3.4	Shim Plate 30 4 pnl 20210120 S			1
2.8.4	Plate pnl was 1 20210120 S			1
2.8.5	Bolt Asm 0.5in x 2.5in gr8 20tpi 20210311 S			4
2.8.5.1	91286A377			1
2.8.5.2	98180A150			2
2.8.5.3	93827A249			1
2.8.5.4	93839A825			1
3	Rib 32 ASM 20210120 S			2
3.1	Rib 32 20210118 S			1
3.2	Rivet Brazier 3t 20200514 S			6

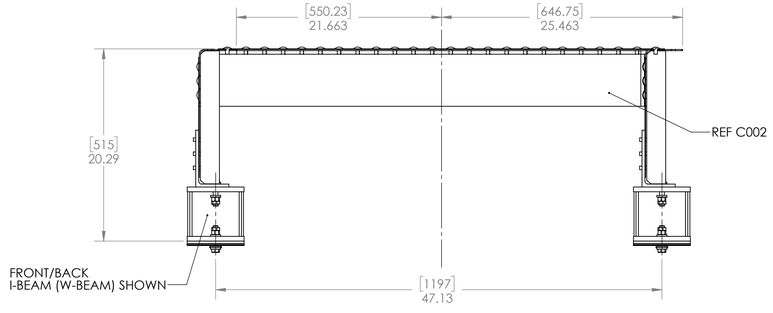
TOTAL WEIGHT, AS SHOWN, W/O ALUM/GALV = 98.3[LBF]





SECTION A-A





SECTION B-B

NOTES:
NO SHARP EDGES/CORNERS
MATERIAL:
T6061-T6, Sy 40[KSI]
RIVETS AL ALLOY
AISI1045 OR Sy 42[KSI]
I-BEAM/W-BEAM, PLATE/SHIM
BOLT ASSEMBLIES G8
ALUMINIZE TYPE II PREFERED
GALVINIZE G100 ACCEPTABLE
CLASS B AS-BUILT
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	8.994

EXAMPLE:
LET DIA = 47.125[IN] (TA061-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 PREFERED
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[N]
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

GAUGE/S:
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(SI) = (DIM)*(CTE)1/K)*(TEMP-15)
***TOLERANCES DO NOT CHANGE

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

CREO DESIGNS, ENG DPT

TITLE: GLORIOUS CROSS

PANEL/SKIN ASM - 2
P47

SIZE	DWG. NO.	REV
D	D - 003	1
SCALE: 1:8		SHEET 1 OF 1