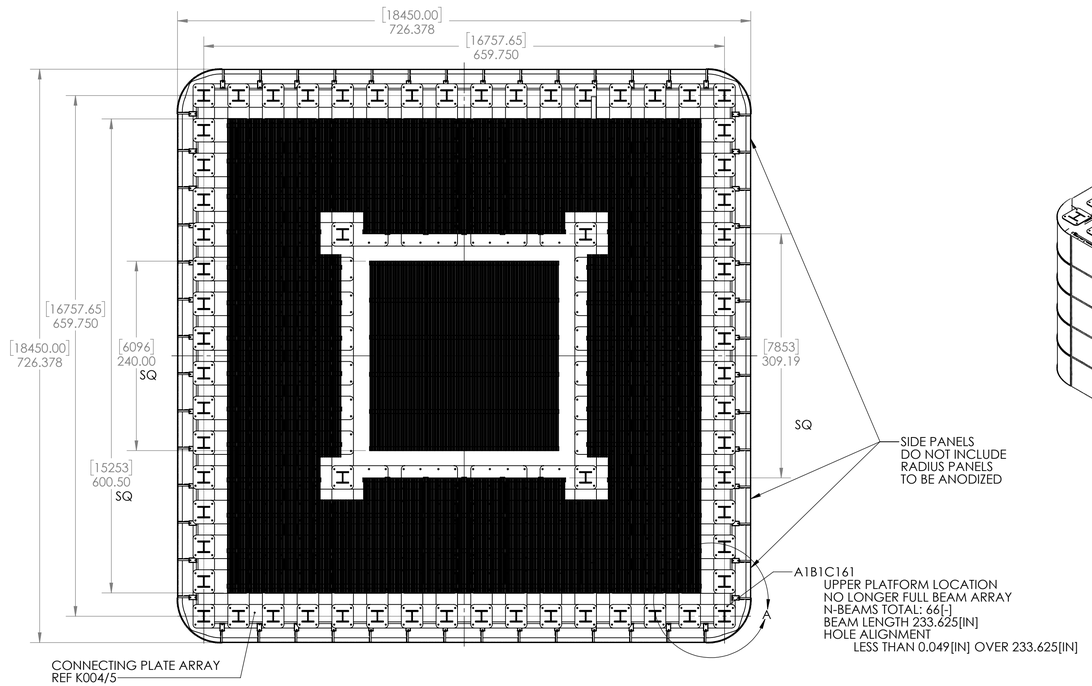
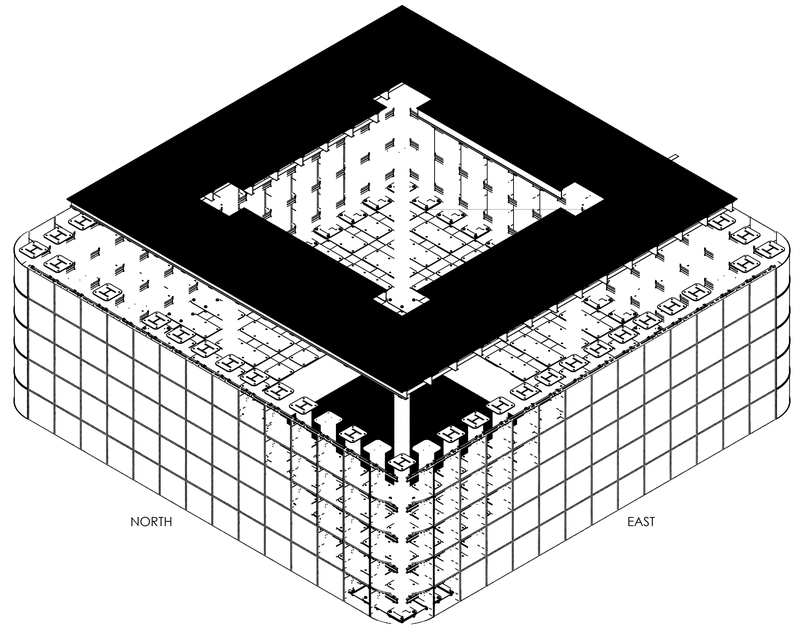
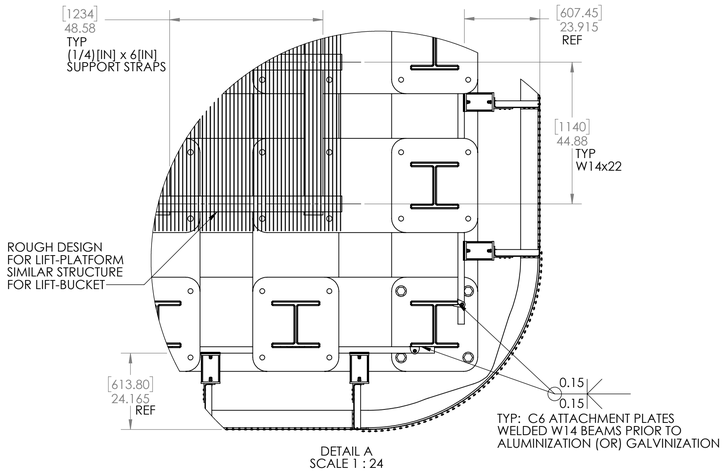
ITEM NO.	PART NUMBER	DESCRIPTION	WEIGHT	QTY.
1	Panel sq 47.125in 20200513 w550 w455 w370 w283 H2 H3			260
2	Rivet Brazier head for Panel 20200510 w550 w455 w370 w283 H2 H3			26640
3	Rib 31 20210118 w550 w455 w370 w283 H2 H3			280
4	L2x2x0.125 3 20210118 w550 w455 w370 w283 H2 H3			280
5	L2x2x0.125 3 20210118 w550 w455 w370 w283 H2 H3			280
6	Plate Pnl sup 2 20210118 w550 w455 w370 w283 H2 H3			280
7	Rivet Brazier 2t +0.0625 20210107 w550 w455 w370 w283 H2 H3			1680
8	Rivet Brazier t+0.313+0.0625 20210104 w550 w455 w370 w283 H2 H3			1680
9	LS6x3.5x0.312 2 20210118 w550 w455 w370 w283 H2 H3			280
10	W6x9 1 20210118 w90 H2 H3			140
11	Plate pnl sup 3 20210118 w550 w455 w370 w283 H2 H3			560
12	Shim Plate 30 1 pnl 20210120 w550 w455 w370 w283 H2 H3			280
13	Shim Plate 30 2 pnl 20210120 w550 w455 w370 w283 H2 H3			280
14	Shim Plate 30 3 pnl 20210120 w550 w455 w370 w283 H2 H3			280
15	Shim Plate 30 4 pnl 20210120 w550 w455 w370 w283 H2 H3			280
16	Plate pnl was 1 20210120 w550 w455 w370 w283 H2 H3			280
17	91286A377			1120
18	98180A150			4640
19	93827A249			2320
20	93839A825			3520
21	Rib 32 20210118 w550 w455 w370 w283 H2 H3			260
22	Rivet Brazier 3t 20200514 w550 w455 w370 w283 H2 H3			1680
23	W6x9 1 20210118 w90 H2 H3			140
24	Rib Radius 3 20200515 w550 w455 w370 w283 H2 H3			20
25	Rib Radius 30 20210120 w550 w455 w370 w283 H2 H3			20
26	W14x90 1 20210728 H2 H3			64
27	Plate w14x90 20210728 H3			128
28	bolt 1.50in 8tpi 8.0L HD 1 20210728 w90 H3			256
29	nut 1.50in 8tpi HD 1 20210527 H3			256
30	wash 1.5in HD 1 20210527 h3			512
31	nut 1.50in 8tpi HD 1 half 20210527 H3			256
32	C6x10.5 2 20210312 w455 w370 w283 H2 H3			300
33	Plate bolt hold 1 20210312 w455 w370 w283 H2 H3			600
34	Plate bolt hold 2 20210315 w455 w370 w283 H2 H3			600
35	Plate C6bk 1 20210315 w455 w370 w283 H2 H3			900
36	Thread rod madetoOrd 0.5x12 - 20tpi w550 w455 w370 w283 H2 H3			600
37	Plate connect 1 20210527 w193 cH3			198
38	Plate connect 2 20210527 w193 cH3			198
39	Shim Plate conct 1 20210527 w193 cH3			4
40	Shim Plate conct 1 20210527 w193 cH3			80
41	grating gw100a galv 1in x 0.125in 48in sep			1
42	w14x22 1 20210728			6
43	strap 1 20210728			5
44	grating 3 gw100a galv 1in x 0.125in 48in sep - Copy			1
45	w14x22 2 20210728			14
46	strap 2 20210728			15

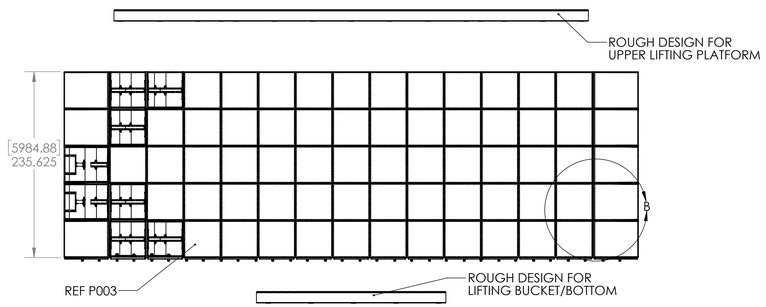
ASM REQUIRES ABOVE PLUS 632[-] - 1.5[IN] BOLT ASM
TOTAL WEIGHT W/O OXIDATION PROTECTION = 293,854[LBF]
TOTAL WEIGHT W/ GALVINIZATION AND WELDING = 312,000[LBF]





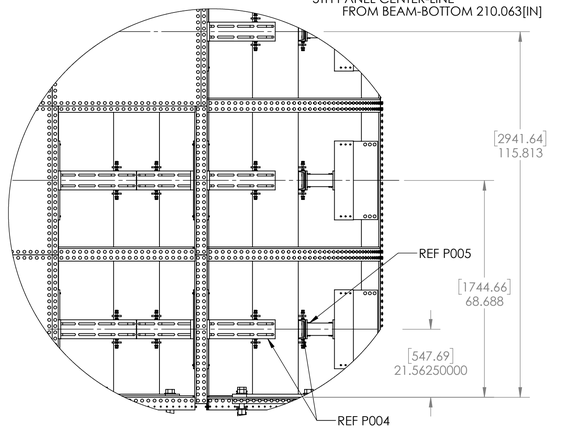


DETAIL A
SCALE 1 : 24



NOTE/S:
LIFT-BUCKET 17[-] MIN, (1/2)[IN] SS CABLES OR EQ
LIFT-UPPER-PLATFORM 25[-] MIN, (1/2)[IN] SS CABLES OR EQ
200,000[FT] OF CABLE (EST - TOTAL)
GUIDING TUBES/RAILS THRU BEAM ARRAY/S
MINIMAL ATTACHMENT TO BEAM ARRAY/S
MOTOR/S MOUNTED ON FOUNDATION
CABLE/S CURRENT RATING 30[TON]
SUGGESTED MOTOR CAPACITY 25[TON]
INSTILLATION OF MOTOR, BUCKET & PLATFORM
PRIOR TO PANEL/SKIN ASM
(x2) 40[FT] AL-LADDERS TO BE INCLUDED
(x2) 20[FT] AL-LADDERS TO BE INCLUDED
DESIGN AS SHOWN:
GRATING 110A, 1.25[IN], 1[IN]x0.125[IN], 158[PSF]
48[IN] SUPPORT SEPARATION
OXIDATION PROTECTION
W14x22 FOR SUPPORT STRUCTURE
WT OF LIFTING BUCKET 4,550[LBF] (8,173[LBF] FOR CALC)
WT OF LIFTING PLATFORM 20,250[LBF] (36,441 FOR CALC)
MAX LOADING FOR EITHER LIFT IS 53,720[LBF]
DESIGN OF:
OVERHEAD SUPPORT SYSTEM
LIFTING BUCKET & PLATFORM WITH RIGGING
TO COMPORT WITH LOCAL MAINTANCE REQ
FINAL DESIGN DUE AT 1ST POUR OF THE FOUNDATION
1ST POUR SETS THE LEVELING BEAMS REF B0XX

NOTE:
4TH PANEL CENTER-LINE
FROM BEAM-BOTTOM 162.938[IN]
5TH PANEL CENTER-LINE
FROM BEAM-BOTTOM 210.063[IN]



DETAIL B
SCALE 1 : 24

NOTE/S:
NO SHARP EDGES/CORNERS
W14, ASTM 913 G65
W6, Sy 42[KSI]
C6, Sy 36.3[KSI]
PLATE/S AISI 1045 Sy 75[KSI]
OXIDIATION PROTECTION
POST WELDING/ASSEMBLY
ALUMINIZATION TYPE II (PREF)
GALV, ASTM123 G100 (OPT)
MASK MATING SURFACES
MASK BOLT HOLES
NO MASKING FOR W6 ASM/SHIMS
OIL-SHEEN, SAE 50+ PRIOR TO ASM
APPLY TO BEAR SURFACES ONLY
NO AGGLOMERATION
BOLT/S ASM G8, GALVINIZED OR TYPE II
MATING SURFACES PROTECTED FOR SHIPPING
POLY-FILM OR OTHER
PANEL/SKIN/SHELL
CLASS A, BRUSHED PATTERN, RANDOM, CIRCULAR SWIRL
MAXIMUM DEPTH 115[MICRO-IN] (0.000115[IN])
FLATNESS LESS THAN 0.001[IN]
SIDE/SIDE (AST/WEST) ANODIZED
RGB (26.4, 48.7, 54.6)
VERIFIED IN NATURAL LIGHT
AL T6061-T6, Sy 40[KSI] FOR CLASS A PANEL
AL ALLOY Sy 40[KSI] MIN FOR OTHER
RIVET/S AL ALLOY
CLASS B, AS-BUILT
CAD/DATA IS MASTER

EXAMPLE AMBIENT TEMP (F)	EXAMPLE AMBIENT TEMP (C)	T6061-T6 dL PER 1000[IN]	T6061-T6 dL PER 1000mm
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 = 0.000031[IN - 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[1/8]
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/R])*(TEMP-59)
dL(SI) = (DIM)*(CTE[1/R])*(TEMP-15)
***TOLERANCES DO NOT CHANGE

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

CREO DESIGNS, ENG DPT

TITLE: GLORIOUS CROSS
HEAD - C161 BEAM
ARRAY W/ PLATFORM/S

SIZE	DWG. NO.	REV
D	P - 006	1

SCALE: 1:96 SHEET 1 OF 1