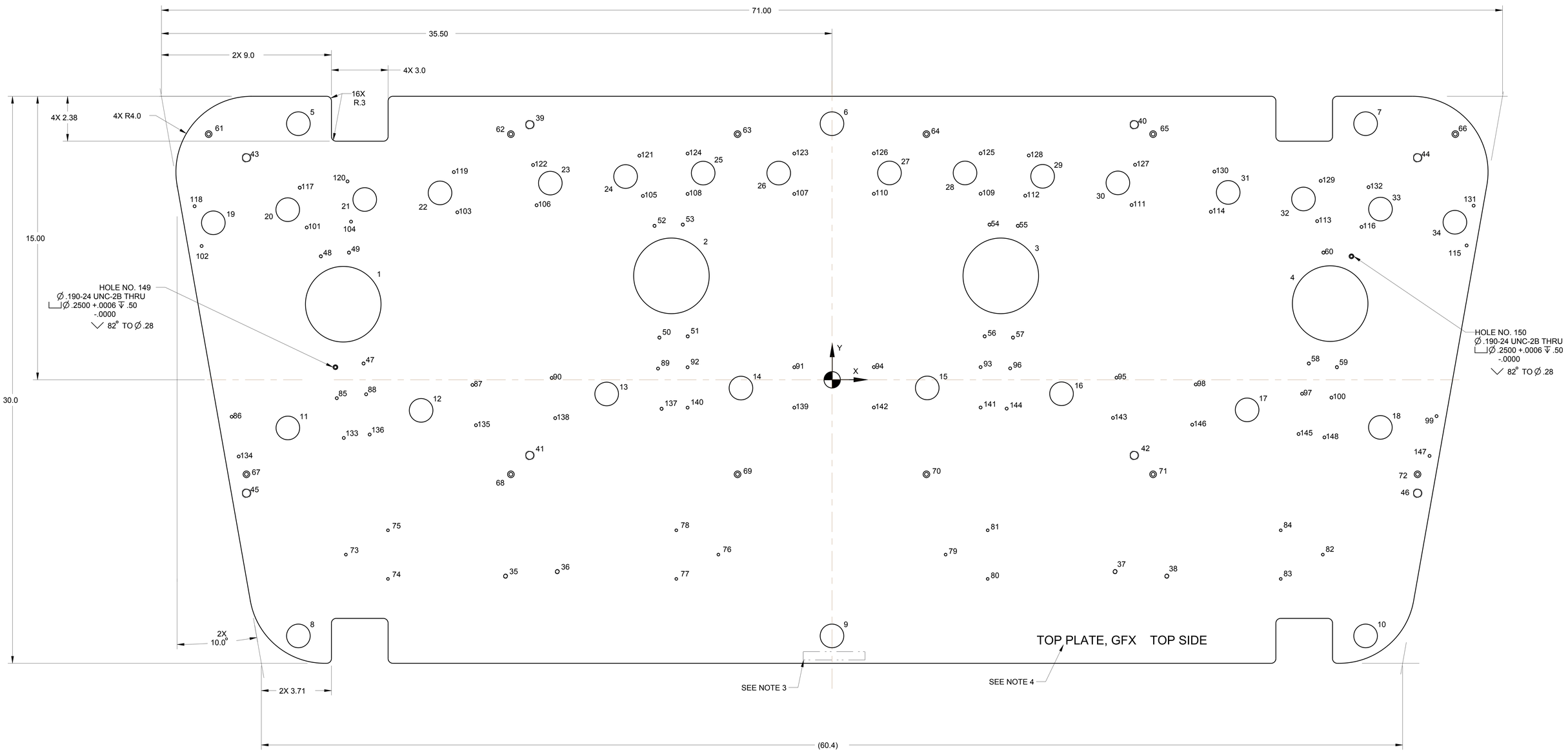
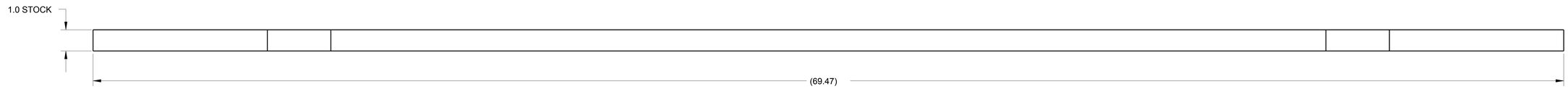
NOTES:

1. MATERIAL: PLATE ALUMINUM TYPE 6061-T6 PER ASTM B209.
2. MAKE FROM DXF FILE
3. VIBRO-ETCH PART WITH DRAWING NUMBER WITH MIN .25 HIGH CHARACTERS IN ACCORDANCE WITH MIL-STD-130, LOCATE APPROX AS SHOWN.
4. VIBRO-ETCH PLATE WITH PART NAME AND ORIENTATION WITH MIN .25 HIGH CHARACTERS. LOCATE APPROX AS SHOWN.

REVISION APPROVALS								
REV	ECN NO.	DESCRIPTION	DATE	BY	CHK	DES	ENG	SUPV
A	-	INITIAL RELEASE	-	-	-	-	-	-





2570M0010	1	INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5	DRAWN BY	S.TRABOCCHI	06/04/17	COLLIDER-ACCELERATOR DEPARTMENT BROOKHAVEN NATIONAL LABORATORY UPTON, N.Y. 11973
USED ON DRAWING NO.	QTY. PER ASS'Y.	UNLESS OTHERWISE SPECIFIED	CHECKED BY	S. RESTMEYER	3/19/18	
APPLICATION		DIMENSIONS ARE IN INCHES DECIMAL TOLERANCES X± .030 XX± .015 XXX± .005 ANGULAR TOLERANCE ±1°	DESIGN APPROVAL	A. ARNO	3/20/18	CBETA TOP PLATE ASSEMBLY TOP PLATE, GFX
			ENG / PHY APPROVAL	G. MAHLER	3/20/18	
			SUPERVISOR APPROVAL	J. TUOZZOLO	3/20/18	
			CEE / CME			SIZE: E — DRAWING NUMBER: 2570M0009 — REV: A
			DIVISION HEAD			
		125 FINISH	QA			Q.A. CATEGORY: A3 — SCALE: 1/2 — WEIGHT: 186.7 — SHEET OF 1 2
		BREAK SHARP EDGES MAX. .03 MIN. .015	SAFETY / RSC			
			DEPARTMENT CHAIR			

DWG NO 2570M0009 SHT 1 OF 2 REV A

CREO

HOLE TABLE			
HOLE NO.	X	Y	NOTE
1	-25.88	4.00	Ø4.00 THRU
2	-8.50	5.50	Ø4.00 THRU
3	8.94	5.50	Ø4.00 THRU
4	26.38	4.03	Ø4.00 THRU
5	-28.25	13.55	Ø1.25 THRU
6	0.00	13.55	Ø1.25 THRU
7	28.25	13.55	Ø1.25 THRU
8	-28.25	-13.55	Ø1.25 THRU
9	0.00	-13.55	Ø1.25 THRU
10	28.25	-13.55	Ø1.25 THRU
11	-28.81	-2.55	Ø1.25 THRU
12	-21.75	-1.62	Ø1.25 THRU
13	-11.93	-0.75	Ø1.25 THRU
14	-4.82	-0.44	Ø1.25 THRU
15	5.04	-0.43	Ø1.25 THRU
16	12.15	-0.74	Ø1.25 THRU
17	21.98	-1.59	Ø1.25 THRU
18	29.03	-2.52	Ø1.25 THRU
19	-32.75	8.31	Ø1.25 THRU
20	-28.81	9.00	Ø1.25 THRU
21	-24.74	9.54	Ø1.25 THRU
22	-20.75	9.89	Ø1.25 THRU
23	-14.91	10.41	Ø1.25 THRU
24	-10.93	10.76	Ø1.25 THRU
25	-6.82	10.94	Ø1.25 THRU
26	-2.82	10.94	Ø1.25 THRU
27	3.04	10.94	Ø1.25 THRU
28	7.04	10.94	Ø1.25 THRU
29	11.15	10.77	Ø1.25 THRU
30	15.14	10.42	Ø1.25 THRU
31	20.98	9.92	Ø1.25 THRU
32	24.96	9.57	Ø1.25 THRU
33	29.04	9.03	Ø1.25 THRU
34	32.98	8.34	Ø1.25 THRU
35	-17.28	-10.39	Ø.250-20 UNC-2B ↧ .75
36	-14.55	-10.15	Ø.250-20 UNC-2B ↧ .75
37	14.99	-10.15	Ø.250-20 UNC-2B ↧ .75
38	17.72	-10.39	Ø.250-20 UNC-2B ↧ .75
39	-16.00	13.50	Ø.500-13 UNC-2B THRU
40	16.00	13.50	Ø.500-13 UNC-2B THRU
41	-16.00	-4.00	Ø.500-13 UNC-2B THRU
42	16.00	-4.00	Ø.500-13 UNC-2B THRU
43	-31.00	11.75	Ø.500-13 UNC-2B THRU
44	31.00	11.75	Ø.500-13 UNC-2B THRU
45	-31.00	-6.00	Ø.500-13 UNC-2B THRU
46	31.00	-6.00	Ø.500-13 UNC-2B THRU
47	-24.80	0.86	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
48	-27.06	6.53	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
49	-25.57	6.73	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
50	-9.14	2.23	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
51	-7.64	2.30	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
52	-9.40	8.14	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
53	-7.90	8.21	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
54	8.34	8.21	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
55	9.84	8.14	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
56	8.08	2.30	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
57	9.58	2.23	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
58	25.24	0.86	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
59	26.73	0.67	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
60	26.01	6.73	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
61	-33.00	13.00	Ø.203 ↧ .19, ⌵ Ø.350 X 120°
62	-17.00	13.00	Ø.203 ↧ .19, ⌵ Ø.350 X 120°
63	-5.00	13.00	Ø.203 ↧ .19, ⌵ Ø.350 X 120°
64	5.00	13.00	Ø.203 ↧ .19, ⌵ Ø.350 X 120°
65	17.00	13.00	Ø.203 ↧ .19, ⌵ Ø.350 X 120°
66	33.00	13.00	Ø.203 ↧ .19, ⌵ Ø.350 X 120°
67	-31.00	-5.00	Ø.203 ↧ .19, ⌵ Ø.350 X 120°
68	-17.00	-5.00	Ø.203 ↧ .19, ⌵ Ø.350 X 120°
69	-5.00	-5.00	Ø.203 ↧ .19, ⌵ Ø.350 X 120°
70	5.00	-5.00	Ø.203 ↧ .19, ⌵ Ø.350 X 120°

HOLE TABLE			
HOLE NO.	X	Y	NOTE
71	17.00	-5.00	Ø.203 ↧ .19, ⌵ Ø.350 X 120°
72	31.00	-5.00	Ø.203 ↧ .19, ⌵ Ø.350 X 120°
73	-25.74	-9.25	Ø.164-32 UNC-2B ↧ .50
74	-23.51	-10.54	Ø.164-32 UNC-2B ↧ .50
75	-23.51	-7.96	Ø.164-32 UNC-2B ↧ .50
76	-6.02	-9.25	Ø.164-32 UNC-2B ↧ .50
77	-8.24	-10.54	Ø.164-32 UNC-2B ↧ .50
78	-8.24	-7.96	Ø.164-32 UNC-2B ↧ .50
79	6.02	-9.25	Ø.164-32 UNC-2B ↧ .50
80	8.24	-10.54	Ø.164-32 UNC-2B ↧ .50
81	8.24	-7.96	Ø.164-32 UNC-2B ↧ .50
82	25.99	-9.25	Ø.164-32 UNC-2B ↧ .50
83	23.76	-10.54	Ø.164-32 UNC-2B ↧ .50
84	23.76	-7.96	Ø.164-32 UNC-2B ↧ .50
85	-26.22	-0.97	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
86	-31.78	-1.95	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
87	-19.03	-0.27	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
88	-24.66	-0.77	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
89	-9.21	0.59	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
90	-14.84	0.10	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
91	-1.99	0.66	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
92	-7.64	0.66	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
93	7.87	0.67	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
94	2.22	0.67	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
95	15.06	0.11	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
96	9.43	0.61	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
97	24.89	-0.74	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
98	19.26	-0.25	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
99	32.01	-1.92	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
100	26.44	-0.94	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
101	-27.81	8.06	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
102	-33.37	7.08	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
103	-19.83	8.86	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
104	-25.46	8.37	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
105	-10.01	9.73	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
106	-15.64	9.24	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
107	-1.99	9.83	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
108	-7.64	9.83	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
109	7.87	9.84	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
110	2.22	9.84	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
111	15.86	9.25	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
112	10.23	9.74	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
113	25.69	8.40	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
114	20.06	8.89	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
115	33.60	7.11	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
116	28.03	8.09	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
117	-28.18	10.16	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
118	-33.74	9.18	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
119	-20.02	10.99	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
120	-25.65	10.50	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
121	-10.20	11.86	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
122	-15.82	11.37	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
123	-1.99	11.97	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
124	-7.64	11.97	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
125	7.87	11.98	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
126	2.22	11.98	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
127	16.05	11.38	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
128	10.42	11.87	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
129	25.87	10.53	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
130	20.24	11.02	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
131	33.97	9.21	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
132	28.41	10.19	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
133	-25.85	-3.08	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
134	-31.41	-4.06	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
135	-18.85	-2.40	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
136	-24.48	-2.89	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
137	-9.02	-1.54	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
138	-14.65	-2.03	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
139	-1.99	-1.47	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
140	-7.64	-1.47	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.

HOLE TABLE			
HOLE NO.	X	Y	NOTE
141	7.87	-1.47	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
142	2.22	-1.47	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
143	14.88	-2.02	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
144	9.25	-1.52	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
145	24.70	-2.87	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
146	19.07	-2.38	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
147	31.63	-4.03	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
148	26.07	-3.05	Ø.149 THRU .190-24 UNC-2B X .50 FULL THD. MIN.
149	-26.289 ±.002	0.666 ±.002	SEE VIEW
150	27.501 ±.002	6.534 ±.002	SEE VIEW

SIZE E | DRAWING NUMBER: 2570M0009 | REV. A

COLLIDER-ACCELERATOR DEPARTMENT
BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

Q.A. CATEGORY: - | SCALE: - | WEIGHT: - | SHEET OF 2 2

DWG NO 2570M0009 SHT 2 OF 2 REV A