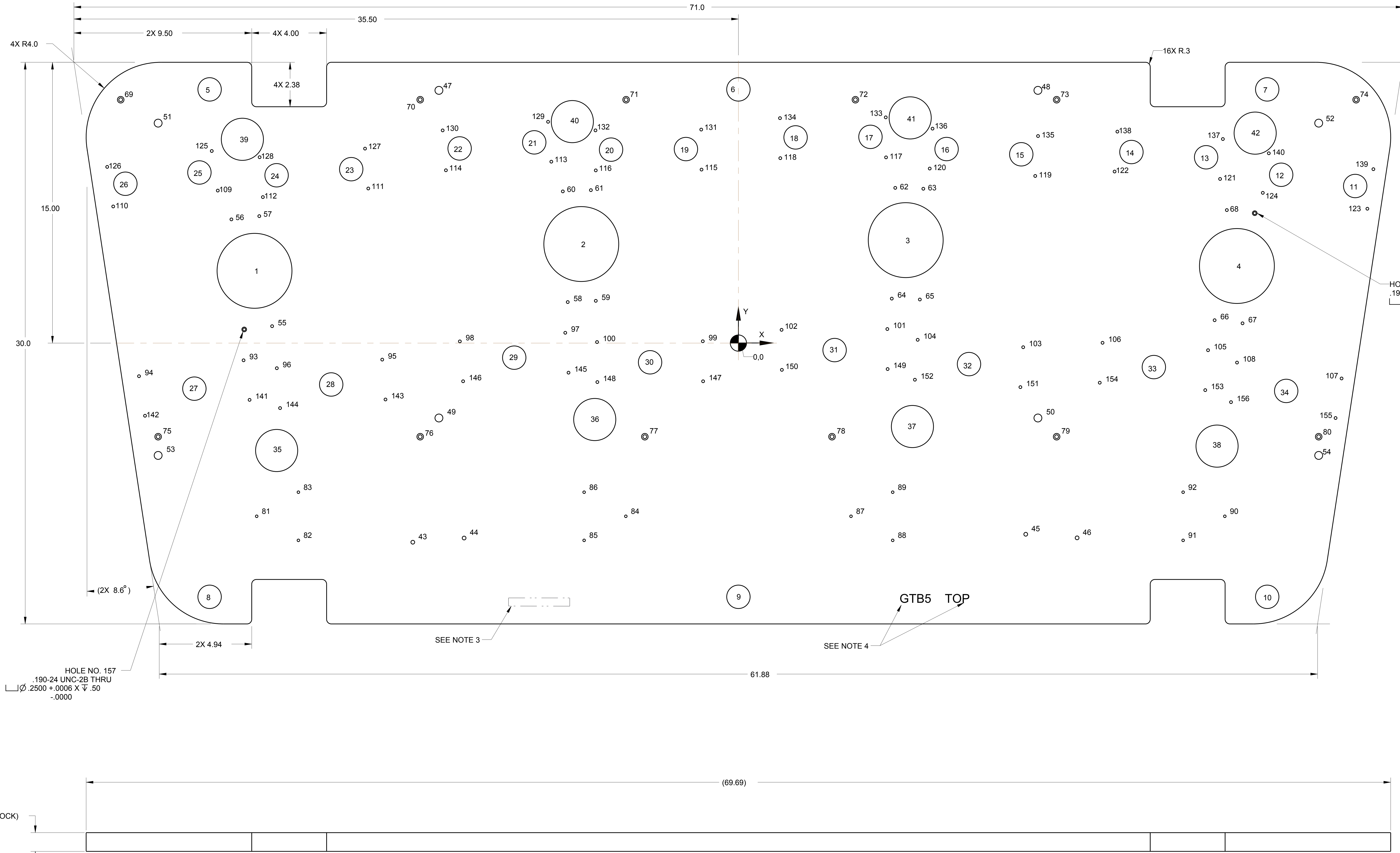


- NOTES:
- MATERIAL: PLATE ALUMINUM 1.0 THK TYPE 6061-T6 PER ASTM B209
 - MAKE FROM DXF FILE
 - VIBRO-ETCH PART WITH DRAWING NUMBER WITH MIN .25 HIGH CHARACTERS IN ACCORDANCE WITH MIL-STD-130, LOCATE APPROX AS SHOWN.
 - VIBRO-ETCH PLATE WITH PART NAME AND SIDE DESIGNATION WITH MIN .25 HIGH CHARACTERS. LOCATE APPROX AS SHOWN.

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



HOLE NO. 157
 .190-24 UNC-2B THRU
 $\varnothing .2500 +.0006 X \sqrt{.50}$
 -.0000

HOLE NO. 158
 .190-24 UNC-2B THRU
 $\varnothing .2500 +.0006 X \sqrt{.50}$
 -.0000

REV	DESCRIPTION
A	INITIAL RELEASE

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5				COLLIDER-ACCELERATOR DEPARTMENT BROOKHAVEN NATIONAL LABORATORY UPTON, N.Y. 11973	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMAL TOLERANCES .005 .015 .030 .050 .100 .150 .300 .500 .750 1.000 ANGULAR TOLERANCE ±1°		DRAWN BY: TRABOCCHI/ARAU 3/01/18 CHECKED BY: S. RESTMEYER 5/21/18 DESIGN APPROVAL: A. ARNO 5/8/18 ENG. APPR: S. TRABOCCHI 4/30/18 MANUFACTURING APPROVAL: G. MAHLER 5/9/18 SEE DIM: J. TUZZOLO 5/21/18		CBETA TOP PLATE ASSEMBLY, GTB5 PLATE, GTB5	
USED ON DRAWING NO. 2570M0050 APPLICATION:	QTY. PER ASSY. 1	FINISH: 125 <input checked="" type="checkbox"/> BREAK SHARP EDGES MAX. GRN: 015	SIZE: E CATEGORY: A3	DRAWING NUMBER: 2570M0049 SCALE: 1/2 WEIGHT: 177.5 SHEET OF 1 2	REV. A CREO

DWG NO 2570M0049 SHIT 1 OF 1

HOLE TABLE			
Hole No.	X	Y	NOTE
1	-25.85	3.86	Ø 4.00 THRU
2	-8.39	5.29	Ø 4.00 THRU
3	8.94	5.50	Ø 4.00 THRU
4	26.63	4.12	Ø 4.00 THRU
5	-28.25	13.55	Ø 1.25 THRU
6	0.00	13.55	Ø 1.25 THRU
7	28.25	13.55	Ø 1.25 THRU
8	-28.25	-13.55	Ø 1.25 THRU
9	0.00	-13.55	Ø 1.25 THRU
10	28.25	-13.55	Ø 1.25 THRU
11	32.95	8.39	Ø 1.25 THRU
12	29.00	8.99	Ø 1.25 THRU
13	24.99	9.93	Ø 1.25 THRU
14	21.00	10.21	Ø 1.25 THRU
15	15.11	10.09	Ø 1.25 THRU
16	11.12	10.37	Ø 1.25 THRU
17	7.05	11.02	Ø 1.25 THRU
18	3.05	10.99	Ø 1.25 THRU
19	-2.80	10.36	Ø 1.25 THRU
20	-6.80	10.33	Ø 1.25 THRU
21	-10.91	10.72	Ø 1.25 THRU
22	-14.89	10.40	Ø 1.25 THRU
23	-20.69	9.29	Ø 1.25 THRU
24	-24.67	8.96	Ø 1.25 THRU
25	-28.80	9.11	Ø 1.25 THRU
26	-32.75	8.51	Ø 1.25 THRU
27	-29.06	-2.43	Ø 1.25 THRU
28	-21.75	-2.21	Ø 1.25 THRU
29	-11.98	-0.78	Ø 1.25 THRU
30	-4.72	-1.03	Ø 1.25 THRU
31	5.14	-0.37	Ø 1.25 THRU
32	12.32	-1.12	Ø 1.25 THRU
33	22.19	-1.28	Ø 1.25 THRU
34	29.26	-2.55	Ø 1.25 THRU
35	-24.67	-5.74	Ø 2.25 THRU
36	-7.68	-4.08	Ø 2.25 THRU
37	9.30	-4.46	Ø 2.25 THRU
38	25.57	-5.50	Ø 2.25 THRU
39	-26.50	10.89	Ø 2.25 THRU
40	-8.87	11.83	Ø 2.25 THRU
41	9.18	12.03	Ø 2.25 THRU
42	27.61	11.22	Ø 2.25 THRU
43	-17.40	-10.64	.250-20 UNC-2B ∇ .75
44	-14.65	-10.41	.250-20 UNC-2B ∇ .75
45	15.35	-10.21	.250-20 UNC-2B ∇ .75
46	18.09	-10.40	.250-20 UNC-2B ∇ .75
47	-16.00	13.50	.500-13 UNC-2B THRU
48	16.00	13.50	.500-13 UNC-2B THRU
49	-16.00	-4.00	.500-13 UNC-2B THRU
50	16.00	-4.00	.500-13 UNC-2B THRU
51	-31.00	11.75	.500-13 UNC-2B THRU
52	31.00	11.75	.500-13 UNC-2B THRU
53	-31.00	-6.00	.500-13 UNC-2B THRU
54	31.00	-6.00	.500-13 UNC-2B THRU
55	-24.91	0.90	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
56	-27.09	6.61	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
57	-25.60	6.78	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
58	-9.12	2.19	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
59	-7.62	2.26	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
60	-9.38	8.10	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
61	-7.88	8.17	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
62	8.38	8.29	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
63	9.88	8.24	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
64	8.19	2.38	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
65	9.69	2.33	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
66	25.44	1.22	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
67	26.93	1.06	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
68	26.09	7.10	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
69	-33.00	13.00	Ø .203 ∇ .19, ∇ Ø .350 X 120°
70	-17.00	13.00	Ø .203 ∇ .19, ∇ Ø .350 X 120°

HOLE TABLE			
Hole No.	X	Y	NOTE
71	-6.00	13.00	Ø .203 ∇ .19, ∇ Ø .350 X 120°
72	6.25	13.00	Ø .203 ∇ .19, ∇ Ø .350 X 120°
73	17.00	13.00	Ø .203 ∇ .19, ∇ Ø .350 X 120°
74	33.00	13.00	Ø .203 ∇ .19, ∇ Ø .350 X 120°
75	-31.00	-5.00	Ø .203 ∇ .19, ∇ Ø .350 X 120°
76	-17.00	-5.00	Ø .203 ∇ .19, ∇ Ø .350 X 120°
77	-5.00	-5.00	Ø .203 ∇ .19, ∇ Ø .350 X 120°
78	5.00	-5.00	Ø .203 ∇ .19, ∇ Ø .350 X 120°
79	17.00	-5.00	Ø .203 ∇ .19, ∇ Ø .350 X 120°
80	31.00	-5.00	Ø .203 ∇ .19, ∇ Ø .350 X 120°
81	-25.74	-9.25	.164-32 UNC-2B ∇ .50
82	-23.51	-10.54	.164-32 UNC-2B ∇ .50
83	-23.51	-7.96	.164-32 UNC-2B ∇ .50
84	-6.02	-9.25	.164-32 UNC-2B ∇ .50
85	-8.24	-10.54	.164-32 UNC-2B ∇ .50
86	-8.24	-7.96	.164-32 UNC-2B ∇ .50
87	6.02	-9.25	.164-32 UNC-2B ∇ .50
88	8.24	-10.54	.164-32 UNC-2B ∇ .50
89	8.24	-7.96	.164-32 UNC-2B ∇ .50
90	25.99	-9.25	.164-32 UNC-2B ∇ .50
91	23.76	-10.54	.164-32 UNC-2B ∇ .50
92	23.76	-7.96	.164-32 UNC-2B ∇ .50
93	-26.44	-0.92	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
94	-32.02	-1.77	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
95	-19.03	-0.88	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
96	-24.66	-1.34	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
97	-9.25	0.55	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
98	-14.88	0.09	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
99	-1.90	0.10	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
100	-7.55	0.06	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
101	7.96	0.75	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
102	2.31	0.71	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
103	15.21	-0.22	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
104	9.58	0.18	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
105	25.09	-0.38	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
106	19.45	0.02	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
107	32.22	-1.89	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
108	26.64	-1.04	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
109	-27.81	8.15	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
110	-33.40	7.30	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
111	-19.77	8.26	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
112	-25.40	7.80	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
113	-10.00	9.69	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
114	-15.63	9.23	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
115	-1.97	9.27	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
116	-7.62	9.23	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
117	7.89	9.92	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
118	2.24	9.88	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
119	15.86	8.93	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
120	10.22	9.32	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
121	25.73	8.77	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
122	20.10	9.16	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
123	33.60	7.18	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
124	28.01	8.03	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
125	-28.14	10.26	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
126	-33.72	9.41	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
127	-19.95	10.39	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
128	-25.58	9.93	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
129	-10.17	11.82	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
130	-15.80	11.36	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
131	-1.99	11.41	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
132	-7.64	11.36	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
133	7.87	12.06	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
134	2.22	12.02	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
135	16.01	11.06	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
136	10.37	11.46	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
137	25.88	10.90	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
138	20.25	11.30	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
139	33.92	9.29	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
140	28.34	10.14	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN

HOLE TABLE			
Hole No.	X	Y	NOTE
141	-26.12	-3.03	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
142	-31.70	-3.88	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
143	-18.85	-3.01	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
144	-24.49	-3.47	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
145	-9.08	-1.58	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
146	-14.71	-2.04	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
147	-1.89	-2.04	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
148	-7.54	-2.08	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
149	7.97	-1.39	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
150	2.32	-1.43	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
151	15.06	-2.35	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
152	9.43	-1.96	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
153	24.94	-2.51	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
154	19.30	-2.12	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
155	31.90	-4.00	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
156	26.32	-3.15	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
157	-26.401±.002	730±.002	SEE F/D ZONE C8
158	27.584±.002	6.939±.002	SEE F/D ZONE E1