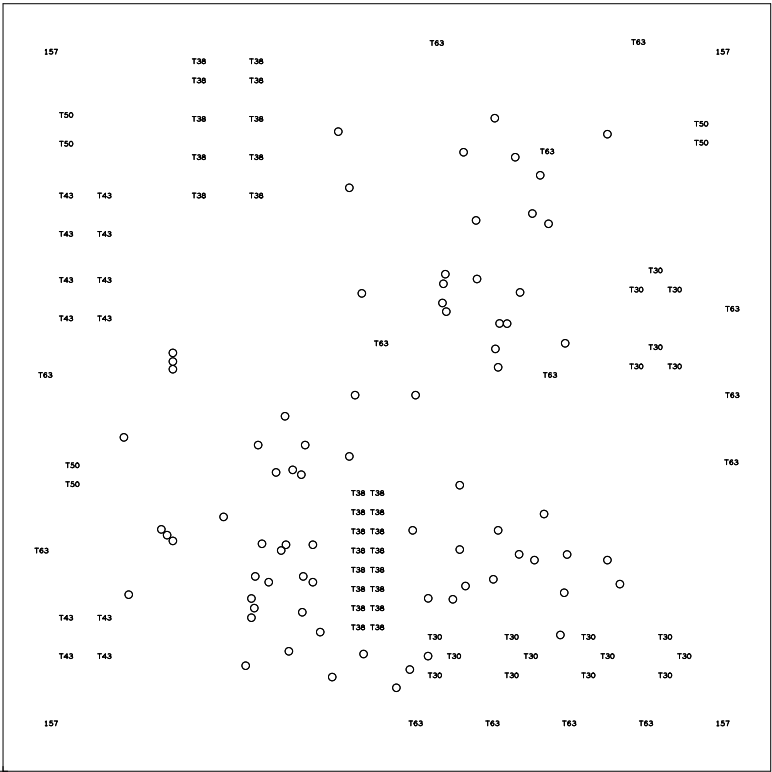


| DRILL CHART: TOP to BOTTOM |       |        |     |
|----------------------------|-------|--------|-----|
| ALL UNITS ARE IN MILS      |       |        |     |
| FIGURE                     | SIZE  | PLATED | QTY |
| ○                          | 10.0  | PLATED | 76  |
| T30                        | 30.0  | PLATED | 18  |
| T38                        | 38.0  | PLATED | 26  |
| T43                        | 43.0  | PLATED | 12  |
| T50                        | 50.0  | PLATED | 6   |
| T63                        | 63.0  | PLATED | 14  |
| 157                        | 157.0 | PLATED | 4   |



| REVISIONS |             |      |          |
|-----------|-------------|------|----------|
| REV       | DESCRIPTION | DATE | APPROVED |
|           |             |      |          |

CLASS II FABRICATION NOTES: (UNLESS OTHERWISE SPECIFIED)

- BOARDS SHALL BE 100% NET LIST TESTED FOR OPENS AND SHORTS PER PROVIDED IPC-D-356 NETLIST.
- THIS BOARD SHALL BE MANUFACTURED IN ACCORDANCE WITH IPC-6012A CLASS II SPECIFICATIONS AND MEET IPC-600 CLASS II ACCEPTABILITY STANDARDS.
- MATERIAL:
  - FR4 PER IPC 4101B/24, /26, OR /28.
  - SIGNAL LAYERS TO BE 2 OZ. COPPER;
  - OVERALL THICKNESS TO BE 0.062" +/- 0.003"
- LEGEND:
  - WHITE NON-CONDUCTIVE EPOXY INK BOTH SIDES.
- SOLDERMASK:
  - APPLY LIQUID PHOTO-IMAGABLE (LPI) SOLDER MASK OVER BARE COPPER PER IPC-SM-840 CLASS H, COLOR GREEN, BOTH SIDES.
- PLATING FINISH:
  - HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.
- PROCESS ALLOWANCES:
  - MAXIMUM BOW AND TWIST ACROSS DIAGONAL CORNERS OF THE BOARD SHALL NOT EXCEED 0.75%.
  - HOLE DIMENSIONS APPLY AFTER PLATING.
  - ALL HOLES SHALL BE LOCATED WITHIN 0.003" DIAMETER OF TRUE POSITION.
  - LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003"
  - CONDUCTOR WIDTHS AND SPACING SHALL BE WITHIN +/- 0.002".
  - REMOVE ALL BURRS AND BREAK SHARP EDGES 0/015" MAX.
  - CUT OUTSIDE OF 0.001" BOARD OUTLINE.

| UNLESS OTHERWISE SPECIFIED                                                                                                              | SIGNATURES           | DATE | LV SWITCHER                                                                         |              |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------|------|-------------------------------------------------------------------------------------|--------------|--------------------|
| DIMENSIONS ARE IN INCHES<br>TOLERANCES ON:<br>2 PL DECIMALS +/- 0.02"<br>3 PL DECIMALS +/- 0.005"<br>ANGLES +/- 1 Degree<br>FRACTIONS + |                      |      | MONTEREY BAY AQUARIUM RESEARCH INSTITUTE<br>7700 SANDHOLDT ROAD<br>MOSS LANDING, CA |              |                    |
|                                                                                                                                         |                      |      | SIZE<br>B                                                                           | RELEASE<br>A | DWG NO<br>10020611 |
|                                                                                                                                         | DESIGNED BY: C. KEYC |      | SCALE 1 - 1                                                                         |              | SHEET 1 - 1        |
|                                                                                                                                         | LAYOUT BY: P. COENEN |      |                                                                                     |              |                    |
|                                                                                                                                         |                      |      |                                                                                     |              |                    |