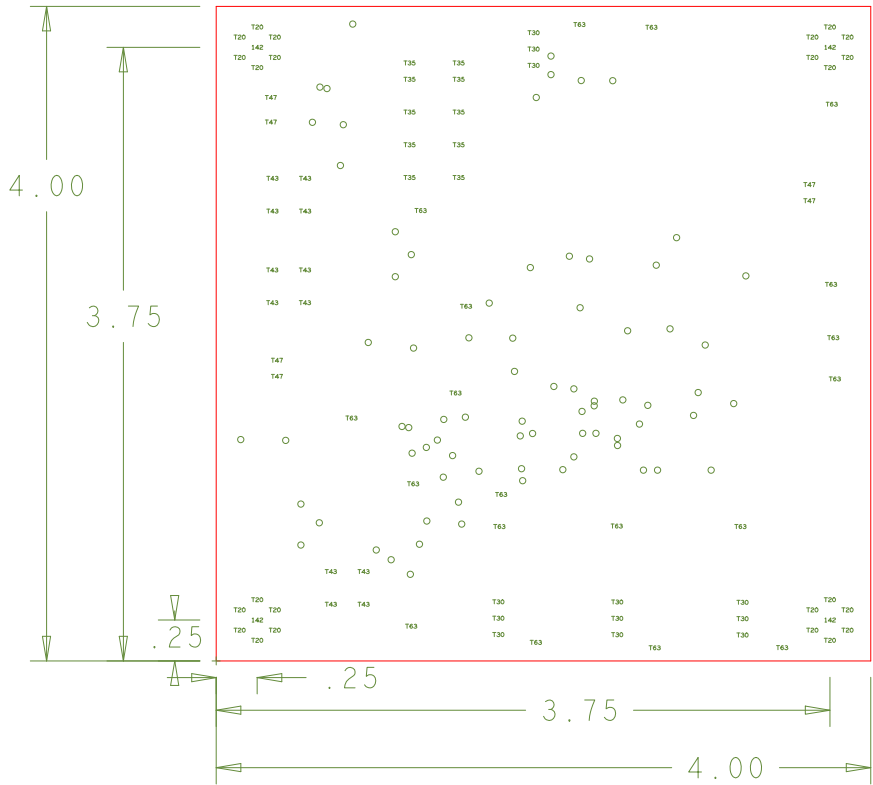


| DRILL CHART: TOP to BOTTOM |       |        |     |
|----------------------------|-------|--------|-----|
| ALL UNITS ARE IN MILS      |       |        |     |
| FIGURE                     | SIZE  | PLATED | QTY |
| ○                          | 10.0  | PLATED | 77  |
| T20                        | 20.0  | PLATED | 24  |
| T30                        | 30.0  | PLATED | 12  |
| T35                        | 35.0  | PLATED | 10  |
| T43                        | 43.0  | PLATED | 12  |
| T47                        | 47.0  | PLATED | 6   |
| T63                        | 63.0  | PLATED | 19  |
| T42                        | 142.0 | 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 1/2 OZ. COPPER.
  - PLANE LAYERS TO BE 1 OZ. COPPER.
  - OVERALL THICKNESS TO BE 0.062" +/- 0.007"
- 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 BLUE BOTH SIDES.
- PLATING FINISH:
  - HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.
- PROCESS ALLOWANCES:
  - MAXIMUM BOW AND TWIST SHALL NOT EXCEED .007" PER INCH
  - 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.

| VISIBLE LAYERS |
|----------------|
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| UNLESS OTHERWISE SPECIFIED                                                                                                              | SIGNATURES                | DATE | FOCE_LV_LOAD_SWITCHER_PROTO_BD                                                      |            |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------|-------------------------------------------------------------------------------------|------------|-----------------|
| 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 B                                                                              | REVISION B | DWG NO 10020611 |
|                                                                                                                                         | DESIGNED BY: CHAD KEYC    |      | SCALE 1-1                                                                           |            |                 |
|                                                                                                                                         | LAYOUT BY: JIM MONTGOMERY |      | SHEET 1-1                                                                           |            |                 |
|                                                                                                                                         |                           |      |                                                                                     |            |                 |