NOTES (UNLESS OTHERWISE SPECIFIED):

- 1) PCB IS 6-LAYER, .062" THICK.
- 2) CONSTRUCTION IS SOLDER-MASK-OVER-BARE-COPPER (SMOBC).
- 3) ACCEPTABILITY SHALL BE BASED ON IPC-A-600, CLASS 2.
- 4) THE FOLLOWING GERBER RS274X PHOTO TOOL FILES SHALL BE USED TO DEFINE ALL CIRCUIT FEATURES:
 - *.GTL TOP LAYER GERBER DATA
 - *.G1 MID LAYER 1 GERBER DATA
 - *.G2 MID LAYER 2 GERBER DATA
 - *.GP1 INTERNAL PLANE LAYER 1 GERBER DATA
 - *.GP2 INTERNAL PLANE LAYER 2 GERBER DATA
 - *.GBL BOTTOM LAYER GERBER DATA
 - *.GTO TOP OVERLAY GERBER DATA
 - *.GTS TOP SOLDER MASK GERBER DATA
 - *.GTP TOP-SIDE SOLDER PASTE MASK
 - *GBO BOTTOM OVERLAY GERBER DATA
 - *.GBS BOTTOM SOLDER MASK GERBER DATA
 - *.GBP BOTTOM-SIDE SOLDER PASTE MASK
- 5) THE PHOTO TOOL SHALL NOT BE COMPENSATED WITHOUT PRIOR ENGINEERING APPROVAL PCB DESIGNER: RICH LOBDILL PH (805) 880-1621 FAX (805) 961-1792.

FABRICATION TOLERANCES

- 6) END PRODUCT CONDUCTOR WIDTHS AND PAD DIAMETERS SHALL NOT VARY MORE THAN
- 0.002" FROM THE 1:1 DIMENSIONS OF THE MASTER ARTWORK.
- 7) THE CONDUCTIVE PATTERN SHALL BE POSITIONED SO THAT THE LOCATION OF ANY PAD OR LAND SHALL BE WITHIN 0.005" DIAMETER TO THE TRUE POSITION OF THE HOLE IT CIRCUMSCRIBES.
- 8) ALL DRILL HOLE SIZES AND TOLERANCES APPLY AFTER PLATING.
- 9) THE MINIMUM ANNULAR RING SHALL BE 0.005". 10) BOW AND TWIST SHALL NOT EXCEED 0.010" PER INCH.
- 11) FOR PCB ROUTING DIMENSIONS: .XXX = +/-.005" .XX = +/-.020"

MATERIAL

- 13) SEE STACK-UP LEGEND FOR COPPER CLADDING CALL OUTS

- 14) ALL HOLES AND CONDUCTIVE SURFACES SHALL BE PLATED WITH A MINIMUM OF 0.001" COPPER. 15) AFTER SOLDERMASK, ALL EXPOSED HOLES AND CONDUCTIVE SURFACES SHALL BE COATED
- WITH A GOLD IMMERSION PLATING TO PRESERVE SOLDERABILITY.
- 16) COPPER THEVING ON LAYERS AS NEEDED

- 17) THE SOLDERMASK SHALL BE BLACK LIQUD PHOTO-MAGEABLE PER PC-SM-840, TYPE-B, CLASS 2.

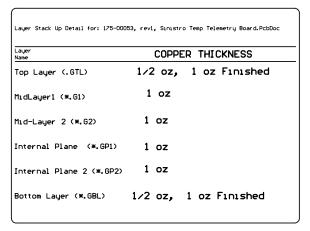
 18) THE SOLDERMASK REGISTRATION ALLOWANCE IS 0.003". THERE SHALL BE NO SOLDERMASK ON ANY SOLDER PAD OR LAND.

MARKING

- 19) THE LEGEND SHALL BE SCREEN-PRINTED USING PERMANENT YELLOW EPOXY NK.20) THE SCREEN PRINTING REGISTRATION ALLOWANCE IS 0.007". THERE SHALL BE NO NK ON ANY SOLDER PAD OR LAND.
- 21) THE VENDOR CODE AND UL FLAMMABILITY RATING MAY BE ETCHED IN THE FOIL OR MARKED IN PERMANENT EPOXY INK (VENDOR'S OPTION).

ELECTRICAL TESTING

22) ALL BOARDS SHALL BE ELECTRICALLY TESTED TO THE SUPPLIED IPC-D-356A NET LIST FOR CONTINUITY, OPENS AND SHORTS.



PRIMARY PCB SPECIFICATIONS (REFER TO COMPLETE SPEC LISTING AT LEFT FOR FURTHER DETAILS)

NUMBER OF LAYERS -6 FINISHED THICKNESS .062" FR4

BASE MATERIAL GOLD IMMERSION PLATING TYPE **BLACK**

SOLDER MASK COLOR -

Las Cumbres Observatory, Inc. 6740 Cortona Dr. Las Cumbres Observatory oleta, CA SC. www.lcogt.net Global Telescope Network Rich Lobdil 10/17/2012 Rich Lobdil 175-00053, SINISTRO TEMP/TELEMETRY BOARD - GPT