

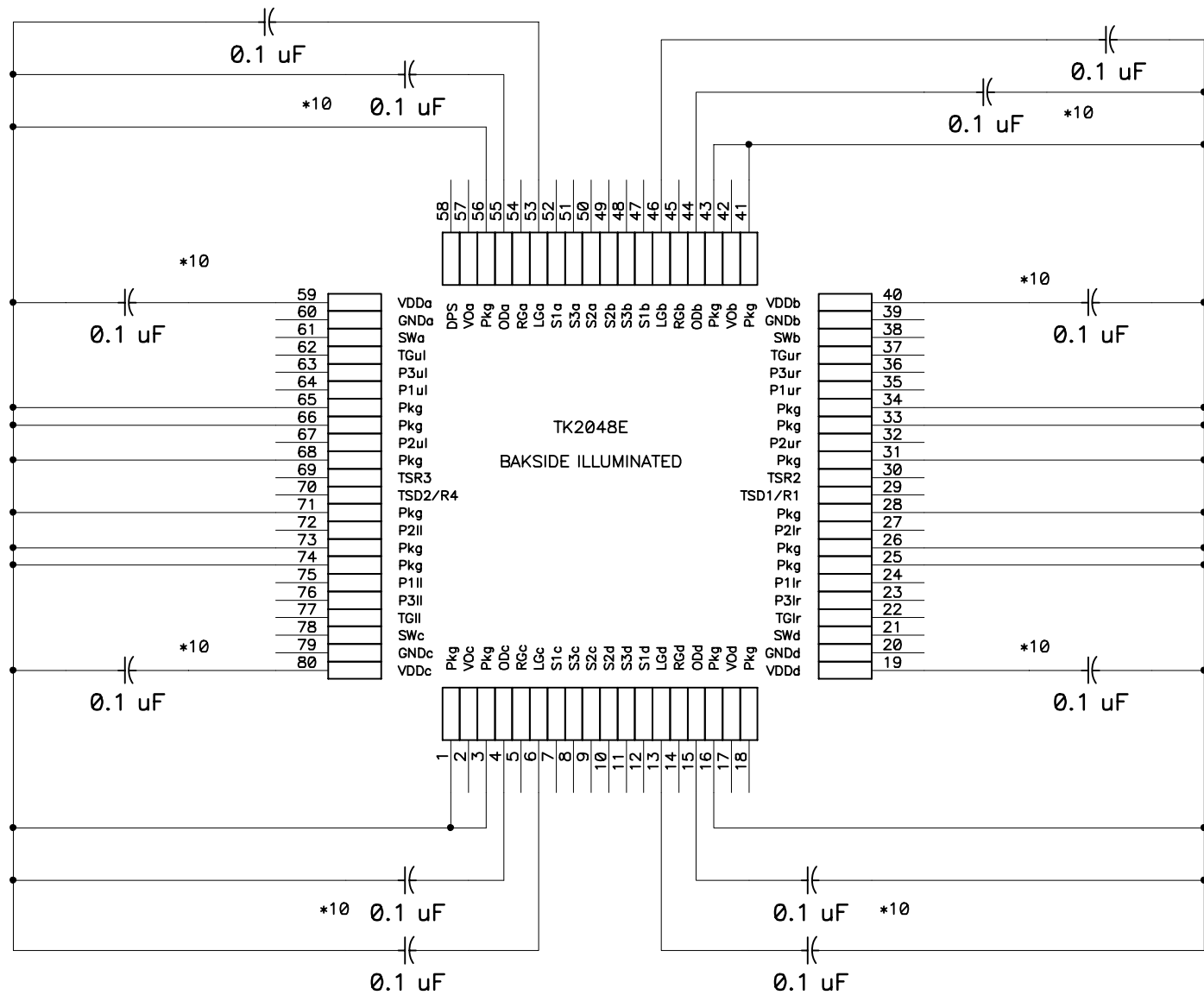
REVISION

12-28-97 Swapped labels at V and W to match Electronics Box wiring.
 08-20-97: Changed PKG connection from Vsub to SGND. Changed Video_gnd to SGND.

DES'N BY: L. Bresee
 DRAWN BY:
 PATH: PFCAM\DEWAR\HEAD

ORIGIN DATE: 09-19-96
 MODIFY DATE: 08-20-97

DWG. NO. NUM. 1 OF 3
 REV. B
EL-3282-1W



UNIVERSITY OF CALIFORNIA
LICK OBSERVATORY

CCD HEAD WIRING
PRIME FOCUS CAMERA

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DWG. NO. NUM. 2 OF 3

REV. B

EL-3282-1W

NOTES:

- 1: S2a and S2b have 2 separate 32AWG black wires, both soldered into pin W, so that these serial clocks may be separated easily.
- 2: Same as #1, but S2c and S2d both tie to pin Y.
- 3: There are 2 30AWG solid teflon wires from pin H. All Pkg pins are tied together with 30AWG teflon insulated solid wire, and two separate pins are connected to the SGND wires from pin H.
- 4: Pkg pin 18 is left unconnected so that the CCD may be installed 180 degrees off, or A swapped with B. Pkg pin 18 is opposite unused DPS pin 59.
- 5: Video-AL, Video-AR, Video-BL, and Video-BR each connect to the center contact of a hermetic SMA coaxial connector. These connectors are chassis grounded to the camera body.
- 6: Vopg = og = LG
Vref = Vr = rd = reset drain = OD
Well Clock = Summing Well = SW
Transfer Gate = T Clock = TG
Reset Clock = R Clock = Reset Gate = RG
- 7: Chip Sections:
A = UL connects to signal for AL (ie: H1AL = S1A)
B = UR connects to signal for AR (ie: H1AR = S1B)
C = LL connects to signal for BR (ie: H1BR = S1C)
D = LR connects to signal for BL (ie: H1BL = S1D)
- 8: One wire from each CCD ground pin is twisted with each video line and these four wires are tied to separate SGND pins.
- 9: Mounted this capacitor between pins H and J on 61 pin connector J3. After latest modifications, it serves no purpose.
- 10: Mount these capacitors and resistors on CCD Zif socket as close to the attached pins as possible.
- 11: Socket used is AMP part number 55565-8 according to PONUM 500719 91-1376. Socket is stamped 9139. Pin one is opposite the lever, but the device is wired such that the CCD may be installed 180 degrees off.
- 12: Actuating lever is considered on the top of the imaging CCD, Pin 1 is diagonally across the socket from the lever arm, or 180 degrees from the lever arm. The lever arm is at pin 41.
- 13: Looking at OUTSIDE of dewar body, facing BACK of CCD, with 61-pin connector ABOVE the SMA video connectors, the arrangement is:

AR	GND	AL
BR	BL	

 Looking at INSIDE of dewar, facing CCD surface, with 61-pin connector ABOVE the SMA video connectors, the arrangement is:

AL	GND	AR
BL	BR	
- 14: Center contact of VIDEO_GND SMA connector connects to SGND at pin H.

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