LASERAID ACCEPTANCE TEST NO. 1

Insert the negative in the film holder with the numbers back to front, so that they are the right way round on the projected image. Invoke LASERAID with the command:

LAJ FRED WITH <patchfile>

Go into CHECK mode by typing:

CHK

and set up phase, threshold, etc.

Exit CHECK mode (FB 16) and type:

CAL 40

The program will display in refresh "Upper right".

Move the cursor to the top rightmost grid intersection and press FB 4.

The program will display in refresh "Lower left".

Move the cursor to the bottom leftmost grid intersection and press FB 4.

The program will display in refresh "X step".

Move the cursor to the grid intersection one to the right of the lower left intersection and press FB 4.

The program will display in refresh "Y step".

Move the cursor to the grid intersection one above the lower left intersection and press FB 4.

The program will then scan the lower left intersection. If it then displays the message "Manual measure please", press FB 2 a few times to repeat automatic scanning. If this still fails, press FB 8 to draw a facsimile on the close-up screen, position the cross-hairs over the intersection of the lines, and press the space bar. If nothing recognisable was drawn, exit by pressing FB 16 and re-enter CHECK mode. If the program stops after scanning the first intersection, without displaying a message, press FB 13, and then FB 4 to continue. The program should now proceed automatically. If it stops, try FB 2 and FB 8 to find the intersection, followed by FB 13 to reset automatic continue and FB 4 to go. The program will draw crosses on the close-up screen as it progresses.

To summarise, the function buttons are:

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... AUT ... OK
... ... ... MAN
... ... ... SKI
CON ... ... NO
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where:

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AUT is automatic measure
OK  accepts a measurement
MAN draws on the close-up screen for manual measure
SKI skips an unmeasurable point
CON switches auto continue on/off
NO  abandons everything
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When the grid has been measured, the program will print out the RMS and maximum residuals and then display "OK ?". The residuals should not be more than about 8 for the two RMS values and 25 for the two maximum values. Press FB 4 to accept the calibration or FB 16 to reject it. The program may then display "After how many features ?". If so, type:

100

to this and also to the following prompt - "Maximum permitted error ?".

Now type:

CP

The cursor will now move to the top left of the screen. Position the cursor over the intersection 8 above the lower left intersection, press FB 2 to scan the intersection, and type:

0 320

to give the co-ordinates of the point, and FB 4 to accept it. Repeat with:

0 0

for the lower left,

400 0

for the intersection 10 to the right of the lower left, and

400 320

for the intersection 10 to the right and 8 up.

Press FB 4 in answer to the prompt "OK?", and type:

0

in answer to the prompt "Which point as fiducial ?"

Then type:

LAY 1

For each numbered cross on the negative, type:

NF n

where n is the number next to the cross. The number will appear in refresh next to the cursor, and then press FB 6 to scan the cross. The program will display in refresh a point at the centre of the cross. Press FB 2 to repeat, FB 12 to draw on the close-up screen and FB 4 to accept.

Type:

EOS

to exit LASERAID.

To process the file, type:

LAPROCESS FRED

followed by

ITOTEXT FRED/PRINT

to spool the file to the line printer, or

ITOTEXT FRED SYS$OUTPUT:

to type it on the terminal.

Each feature should have the following coordinates:

1	903.64	659.98
2	750.50	664.94
3	552.08	653.28
4	338.52	625.20
5	168.70	654.94
6	71.38	608.38
7	12.36	512.08
8	175.68	468.30
9	270.32	528.54
10	407.12	571.58
11	538.24	575.58
12	576.26	467.04
13	655.06	528.28
14	818.88	571.26
15	854.80	470.94
16	935.06	367.42
17	707.82	377.18
18	539.18	374.66
19	422.98	407.94
20	295.46	434.78
21	208.96	387.38
22	66.82	427.90
23	64.50	336.86
24	261.60	251.98
25	389.62	307.82
26	474.38	232.24
27	575.02	289.82
28	704.82	263.40
29	825.82	312.00
30	954.32	112.42
31	875.18	5.32
32	773.22	150.36
33	633.36	165.64
34	650.32	28.50
35	526.68	112.44
36	338.48	60.48
37	233.04	150.58
38	108.14	195.30
39	6.32	85.30
40	147.62	8.64