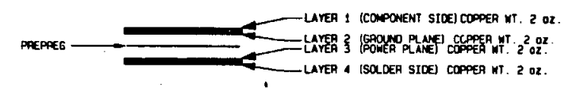
15. LAYER TO LAYER MISREGISTRATION NOT TO EXCEED .005.
14. MIL-P-55110 QUALITY ASSURANCE PROVISIONS APPLY.
13. UNDIMENSIONED HOLES ARE LOCATED ON A .005 GRID.
12. UNLESS OTHERWISE SPECIFIED IN HOLE LEGEND, ALL HOLES ARE PLATED THRU AND SHALL BE THE SPECIFIED DIAMETER AFTER PLATING.
11. THIS DRAWING USED IN CONJUNCTION WITH SCHEMATIC SIG46114413.
10. ARTWORK DEPICTED ON THIS DRAWING IS FOR DOCUMENTATION ONLY.
9. ARTWORKS DEPICTED ON THIS DRAWING ARE PHOTO POSITIVES UNLESS OTHERWISE SPECIFIED
8. SOLDER MASK (GREEN) BOTH SIDES.
7. SILKSCREEN WITH WHITE EPOXY INK PER MIL-I-43553, TYPE II (NON CONDUCTIVE).
6. TIN/LEAD PLATE EXTERNAL CONDUCTIVE PATTERNS PER MIL-P-81728.
5. BOARD MATERIAL TO BE EPOXY FIBERGLASS PER MIL-P-13949/4 TYPE GF, WITH EPOXY PREPREG PER MIL-P-13949/12, TYPE GF. COPPER WEIGHT SHALL BE 2 OZ. FOR ALL LAYERS. FINISHED BOARD SHALL BE .062 ± .008 THICK.
4. FABRICATE PRINTED WIRING BOARD PER MIL-P-55110 WITH ETCHBACK.
3. THIS ITEM CONTAINS NO FRACTURE CRITICAL ELEMENTS.
2. ALL DIMENSIONS ARE IN INCHES.
1. INTERPRET PER JSCM 8500.

NOTES: UNLESS OTHERWISE SPECIFIED




LAYER STACKING
SCALE = NONE

1 MARK AREA INDICATED WITH THE DATE CODE, TRACEBILITY CODE AND MANUFACTURER'S CODE (FEDERAL SUPPLY CODE FOR MANUFACTURERS) WITH PERMENENT INK (NON CONDUCTIVE) OR IN COPPER ETCH.

NOTES:

| QTY | PART NUMBER | DESCRIPTION | MTRL/REF DES | SPECIFICATION | ITEM |
|---|---|---|---|---|---|
| - | SDG46114414-002 | PWB, LIME DISK ARRAY | | | - |

DIMENSIONAL TOLERANCE UNLESS NOTED OTHERWISE
.0 ± .1 .000 ± .010
.00 ± .03 ANGULAR ± .5 DEG.

SEG46114415

| SIGNATURES | | DATE |
|---|---|---|
| DR | R. FRANTZ | 4/22/96 |
| ENG | [signature] | 9/8/96 |
| CH | [signature] | 9/8/96 |
| APP | [signature] | 7/17/97 |
| SE | [signature] | 7/16/97 |
| MAT | [signature] | 6/23/97 |
| STRESS | [signature] | 6/21/97 |
| AUTH | [signature] | 7/17/97 |

NATIONAL AERONAUTICS & SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER HOUSTON, TEXAS

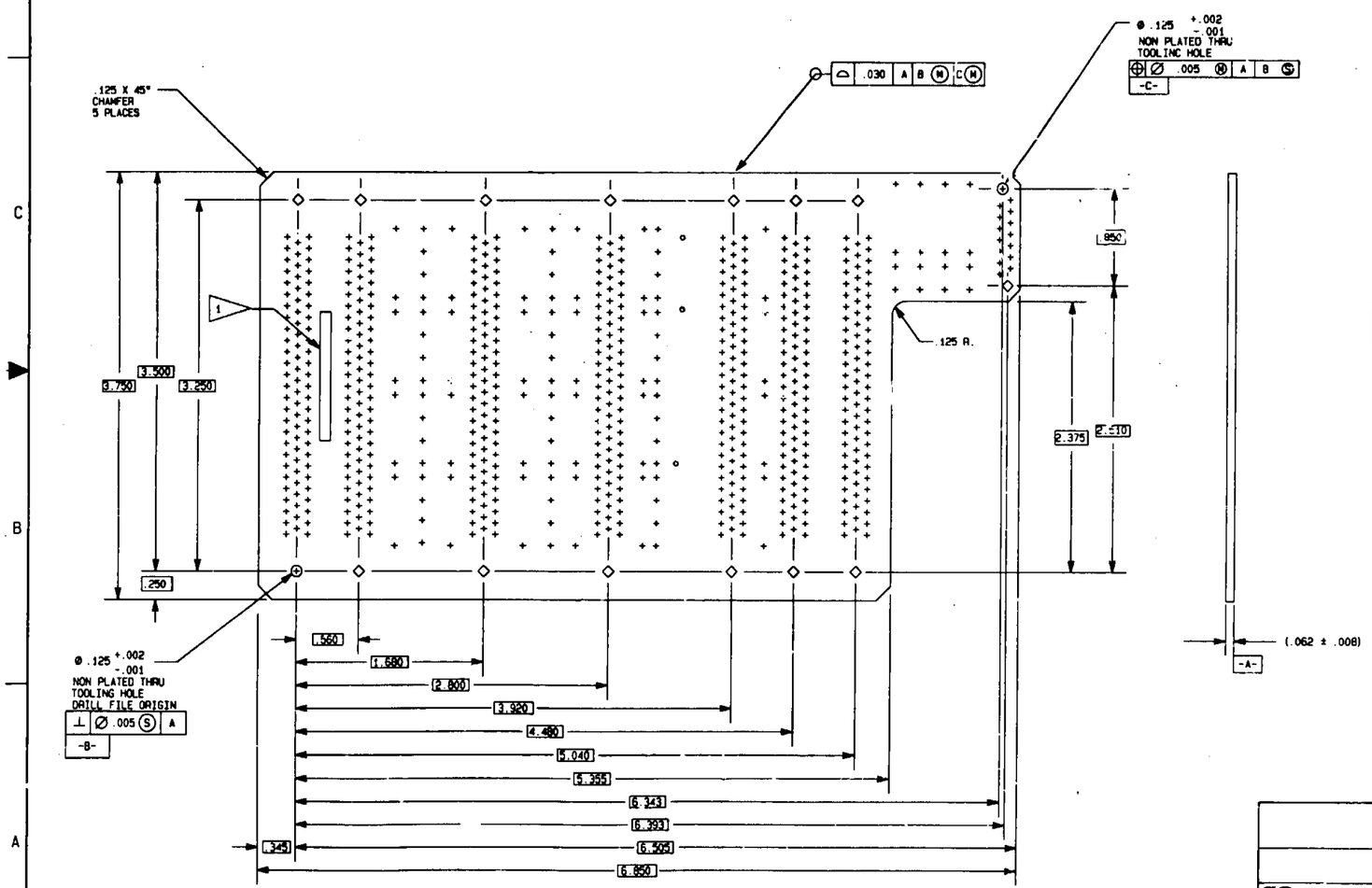
PRINTED WIRING BOARD
LIME DISK ARRAY
HRF WORKSTATION

| CODE IDENT NO. | SIZE | DWG NO. | REV. |
|---|---|---|---|
| 21356 | D | SDG46114414 | |

SCALE 2 : 1 SE PROJECT : B104 SHEET 1 OF 10

DWG NO. \PCAD\RELEASE\PCB
UPN FILE 4414201.HP

420




DRILL GRAPHICS (RR) SDG46114414-002

| HOLE SIZE SYMBOL | NUMBER OF HOLES | FINISHED_HOLE_DIAMETER ⊕ Ø .005 M A B S C S | |
|---|---|---|---|
| ○ | 3 | .022 ±.003 | PLATED_THRU_HOLE |
| + | 686 | .035 ±.004 | PLATED_THRU_HOLE |
| ◇ | 14 | .125 +.005 -.002 | NOT_PLATED_THRU |

| SIGNATURES | | DATE |
|---|---|---|
| DR | R. FRANTZ | 3/31/96 |
| ENG | [signature] | 9/18/96 |
| CH | [signature] | 9/18/96 |
| APP | [signature] | 7-17-97 |
| SE | [signature] | 7-16-97 |
| MATL | [signature] | 6/23/97 |
| STRESS | [signature] | 6/31/97 |
| AUTH | [signature] | 7-17-97 |

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

PRINTED WIRING BOARD
LIME DISK ARRAY
HRF WORKSTATION

NEXT ASSY: SEG46114415

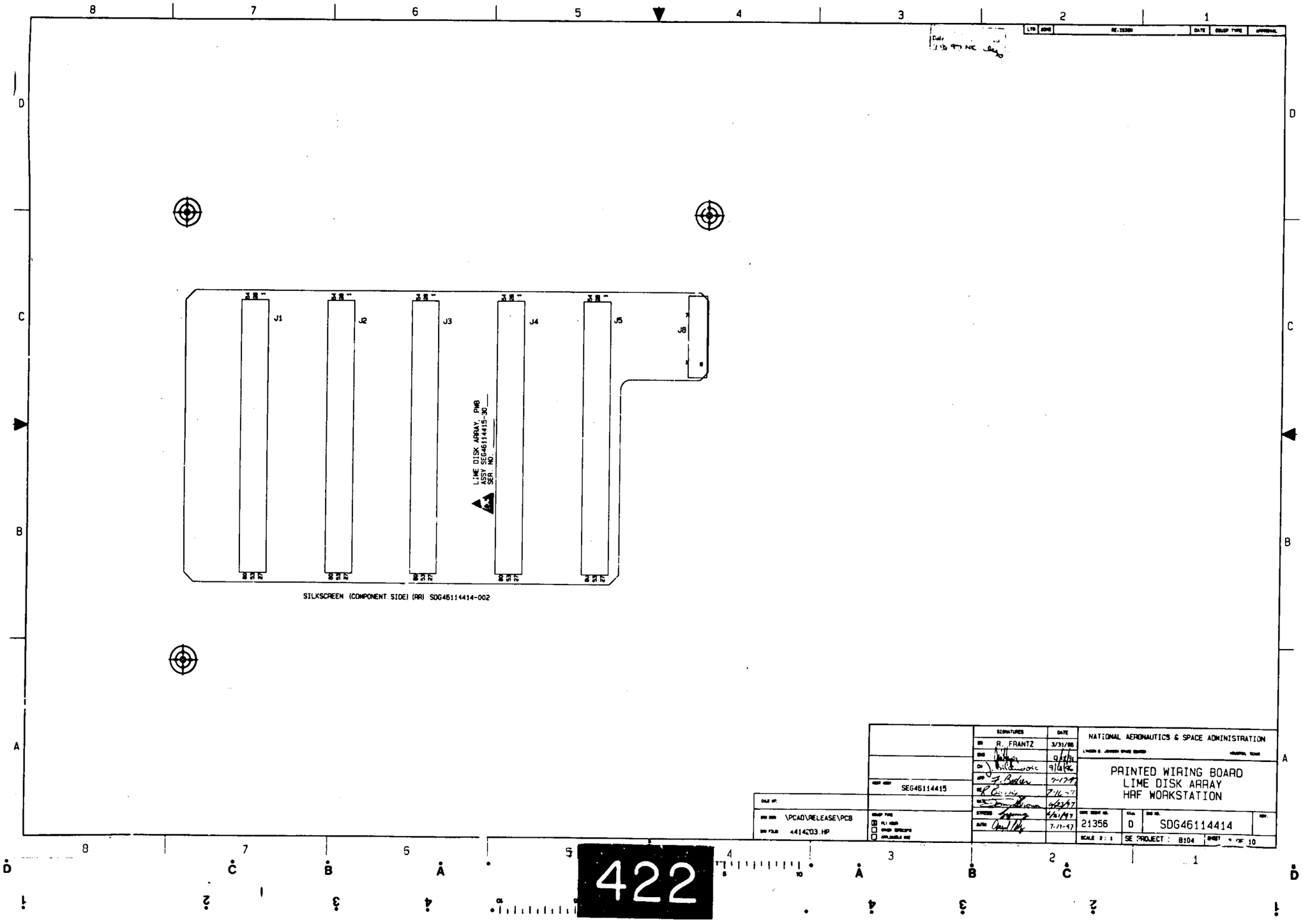
DWG DIR: \PCAD\RELEASE\PCB

DWG FILE: 4414202.HP

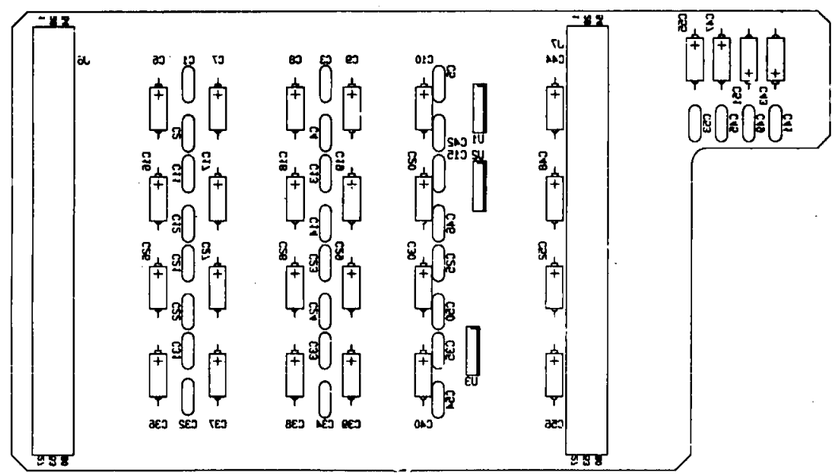
SCALE 2 : 1 | SE PROJECT : 9104 | SHEET 2 OF 10

21356 | D | SDG46114414

421


J1
J2
J3
J4
J5
J8
LIME DISK ARRAY, PWB
ASSY SEG46114415-30
SER. NO.
SILKSCREEN (COMPONENT SIDE) (RR) SDG46114414-002
SEG46114415
\PCAD\RELEASE\PCB
4414203.HP
SIGNATURES
DATE
R. FRANTZ
3/31/96
NATIONAL AERONAUTICS & SPACE ADMINISTRATION
PRINTED WIRING BOARD
LIME DISK ARRAY
HRF WORKSTATION
21356
D
SDG46114414
SCALE 2 : 1
SE PROJECT : B104
SHEET 9 OF 10

422



SILKSCREEN (SOLDER SIDE) (RR) SDG46114414-002

| | | |
|---|---|---|
| DR | R. FRANTZ | 3/31/96 |
| ENG | [signature] | 9/17/96 |
| CH | [signature] | 9/18/96 |
| APP | [signature] | 7-17-97 |
| REV | [signature] | 7-16-97 |
| MATL | [signature] | 6/23/97 |
| STRESS | [signature] | 6/21/97 |
| AUTH | [signature] | 7-17-97 |

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

LYNDON B. JOHNSON SPACE CENTER HOUSTON, TEXAS

PRINTED WIRING BOARD
LIME DISK ARRAY
HRF WORKSTATION

| | | |
|---|---|---|
| 21356 | D | SDG46114414 |
| SCALE 2 : 1 | SE PROJECT : 8104 | SHEET 4 OF 10 |

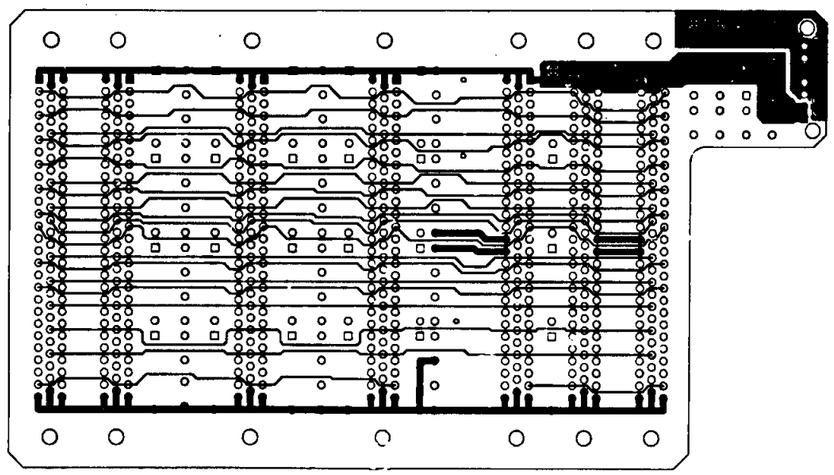
NEXT ASSY: SE646114415

DRAWING TYPE: ☒ PLT HEAD ☐ DRAWN DESCRIPTION ☐ APPLICABLE DOC

DRAWING NO. \PCAD\RELEASE\PCB

DRAWING FILE 4414204.HP

423



LAYER 1 (COMPONENT SIDE) (RR) SDG46114414-002

| | | |
|---|---|---|
| SEG46114415 | | |
| \PCAD\RELEASE\PCB | | |
| 4414205.HP | | |

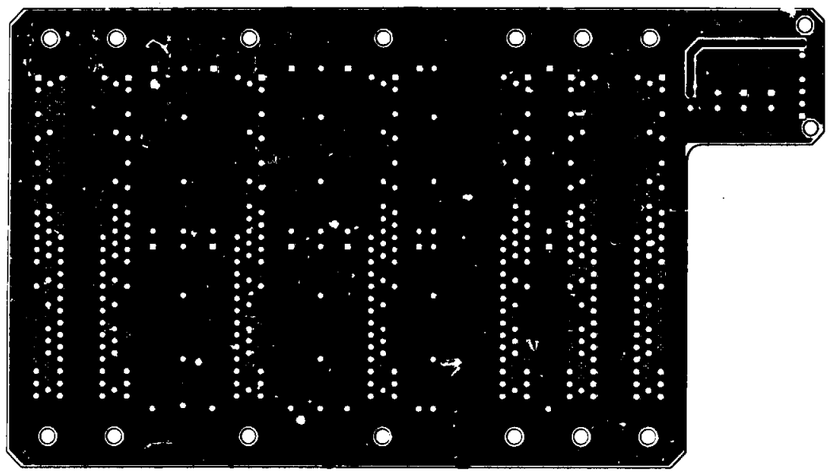
| SIGNATURES | | DATE |
|---|---|---|
| DR | R. FRANTZ | 3/31/96 |
| ENG | [illegible] | 9/18/96 |
| CH | [illegible] | 9/18/96 |
| APP | [illegible] | 7-17-97 |
| SE | [illegible] | 7-16-97 |
| MATL | [illegible] | 6/23/97 |
| STRESS | [illegible] | 6/21/97 |
| AUTH | [illegible] | 7-17-97 |

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

PRINTED WIRING BOARD
LIME DISK ARRAY
HRF WORKSTATION

| | | | |
|---|---|---|---|
| 21356 | D | SDG46114414 | |
| SCALE 2 : 1 | SE PROJECT : B104 | SHEET 5 OF 10 | |

424



LAYER 2 (INNER LAYER 1-GROUND PLANE) (RR) SDG46114414-002

| | | | |
|---|---|---|---|
| SIGNATURES | | DATE | NATIONAL AERONAUTICS & SPACE ADMINISTRATION |
| DR | R. FRANTZ | 3/31/96 | |
| ENG | | 9/17/96 | PRINTED WIRING BOARD |
| CH | | 9/18/96 | LIME DISK ARRAY |
| APP | | 7-17-97 | HRF WORKSTATION |
| SE | | 7-17-97 | |
| MATL | | 6/27/97 | |
| STRESS | | 6/31/97 | |
| AUTH | | 7-17-97 | |

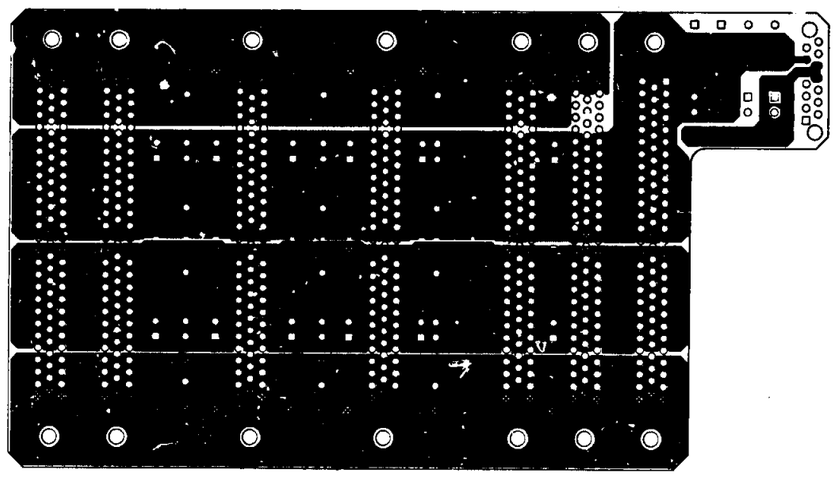
SEG46114415

\PCAD\RELEASE\PCB

4414206.HP

| | | | |
|---|---|---|---|
| CODE IDENT NO. 21356 | SIZE D | DWG NO. SDG46114414 | REV. |
| SCALE 2 : 1 | SE PROJECT : 8104 | SHEET 6 OF 10 | |

425



LAYER 3 (INNER LAYER 2-POWER PLANE) (RR) SDG46114414-002

| | | | |
|---|---|---|---|
| SIGNATURES | | DATE | NATIONAL AERONAUTICS & SPACE ADMINISTRATION |
| DR | R. FRANTZ | 3/31/96 | |
| ENG | | 9/12/96 | PRINTED WIRING BOARD |
| CH | | 9/12/96 | LIME DISK ARRAY |
| APP | | 7-17-97 | HRF WORKSTATION |
| RE | | 7-16-97 | |
| MATL | | 6/23/97 | |
| STRESS | | 6/20/97 | |
| AUTH | | 7-17-97 | |

SEG46114415

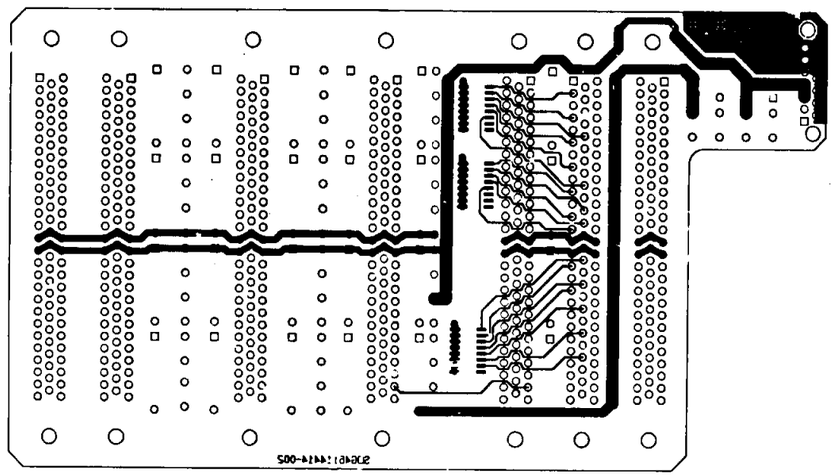
\PCAD\RELEASE\PCB

4414207.HP

| CODE IDENT NO. | SIZE | DWG NO. | REV. |
|---|---|---|---|
| 21356 | D | SDG46114414 | |

SCALE 2 : 1 | SE PROJECT : B104 | SHEET 7 OF 10

426



LAYER 4 (SOLDER SIDE) (RR) SDG46114414-005

| | | | |
|---|---|---|---|
| SIGNATURES | | DATE | NATIONAL AERONAUTICS & SPACE ADMINISTRATION |
| DR | R. FRANTZ | 3/31/96 | |
| CHG | | 4/18/96 | PRINTED WIRING BOARD |
| CH | | 9/18/96 | LIME DISK ARRAY |
| APP | | 7-17-97 | HRF WORKSTATION |
| MGR | | 7-16-97 | |
| MATL | | 6/25/97 | |
| STRESS | | 6/21/97 | |
| AUTH | | 7-17-97 | |

NEXT ASSY: SEG46114415

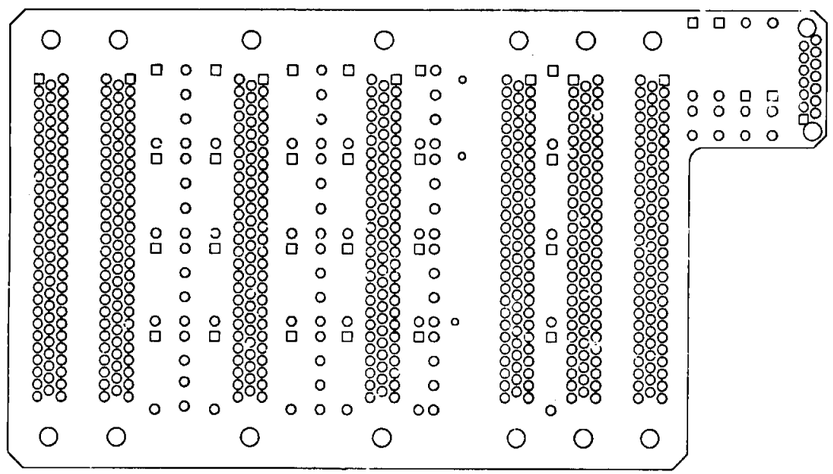
SCALE: \PCAD\RELEASE\PCB

DRW FILE: 4414208.HP

DRAWING TYPE: ☒ PLT HOLE ☐ OTHER DIRECTIVE ☐ APPLICABLE AND

| | | | |
|---|---|---|---|
| 21356 | D | SDG46114414 | |
| SCALE 2 : 1 | SF PROJECT : B104 | SHEET 8 OF 10 | |

427



SOLDERMASK (COMPONENT SIDE) (RR) SDD46114414-002

| | | | |
|---|---|---|---|
| SIGNATURES | | DATE | NATIONAL AERONAUTICS & SPACE ADMINISTRATION |
| DR | R. FRANTZ | 3/31/96 | |
| ENG | | 9/18/96 | PRINTED WIRING BOARD<br>LIME DISK ARRAY<br>HRF WORKSTATION |
| CH | | 9/18/96 | |
| APP | | 7-17-97 | |
| QE | | 7-16-97 | |
| MATL | | 6/23/97 | |
| STRESS | | 6/20/97 | |
| AUTH | | 7-17-97 | |

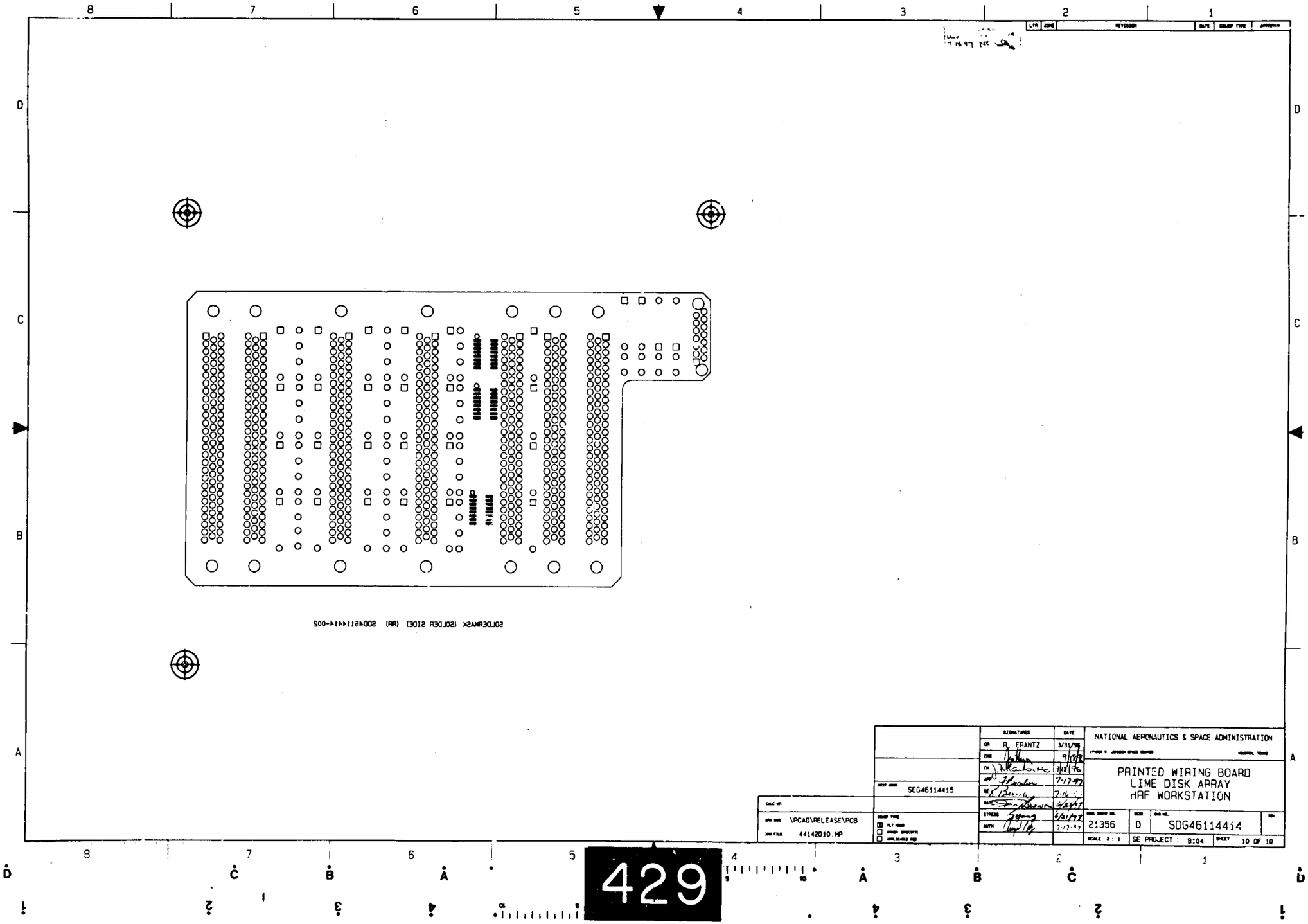
SEG46114415

\PCAD\RELEASE\PCB

4414209.HP

| | | | |
|---|---|---|---|
| 21356 | D | SDG46114414 | |
| SCALE 2 : 1 | SE PROJECT : 8104 | SHEET 9 OF 10 | |

428



SOLDERMASK (SOLDER SIDE) (RR) SDG46114414-005
SIGNATURES
DATE
DR R. FRANTZ 3/31/96
ENG 9/18/96
CH 7/18/96
APP 7-17-97
SE 7-16-97
MAT 6/23/97
STRESS 6/21/97
AUTH 7-17-97
NEXT ASSY SEG46114415
CALC WT:
DRN DIR: \PCAD\RELEASE\PCB
DRN FILE: 44142010.HP
NATIONAL AERONAUTICS & SPACE ADMINISTRATION
PRINTED WIRING BOARD
LIME DISK ARRAY
HRF WORKSTATION
21356
D
SDG46114414
SCALE 2 : 1
SE PROJECT : B:04
SHEET 10 OF 10