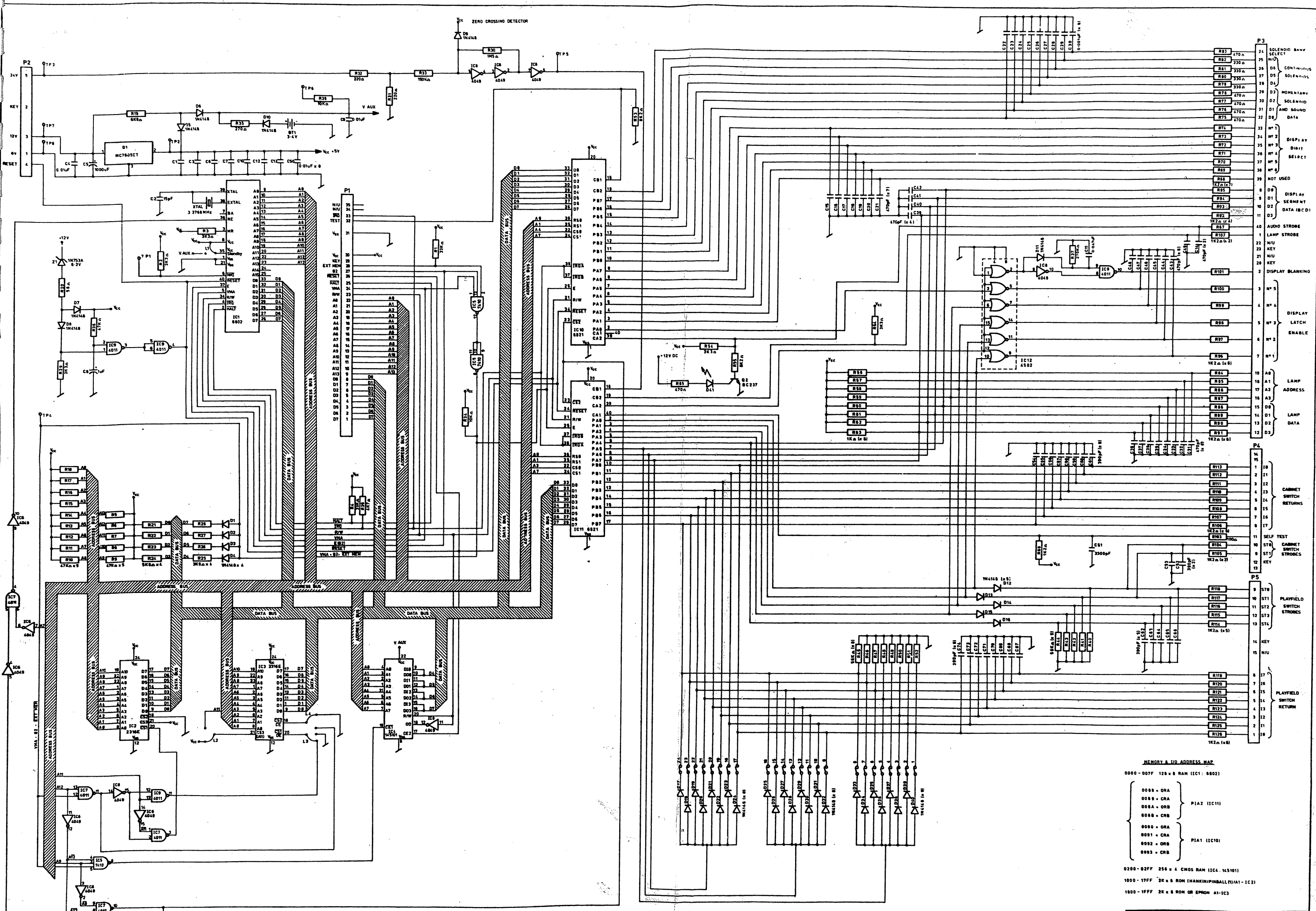




**MEMORY & I/O ADDRESS MAP**

0000 - 00FF 128 x 8 RAM (IC1: 6802)

0080 - 008F 16 x 8 RAM (IC1: 6802)

0090 - 009F 16 x 8 RAM (IC1: 6802)

00A0 - 00AF 16 x 8 RAM (IC1: 6802)

00B0 - 00BF 16 x 8 RAM (IC1: 6802)

00C0 - 00CF 16 x 8 RAM (IC1: 6802)

00D0 - 00DF 16 x 8 RAM (IC1: 6802)

00E0 - 00EF 16 x 8 RAM (IC1: 6802)

00F0 - 00FF 16 x 8 RAM (IC1: 6802)

0100 - 01FF 2K x 8 ROM (HANKINIPBALL) (IC1: 6802)

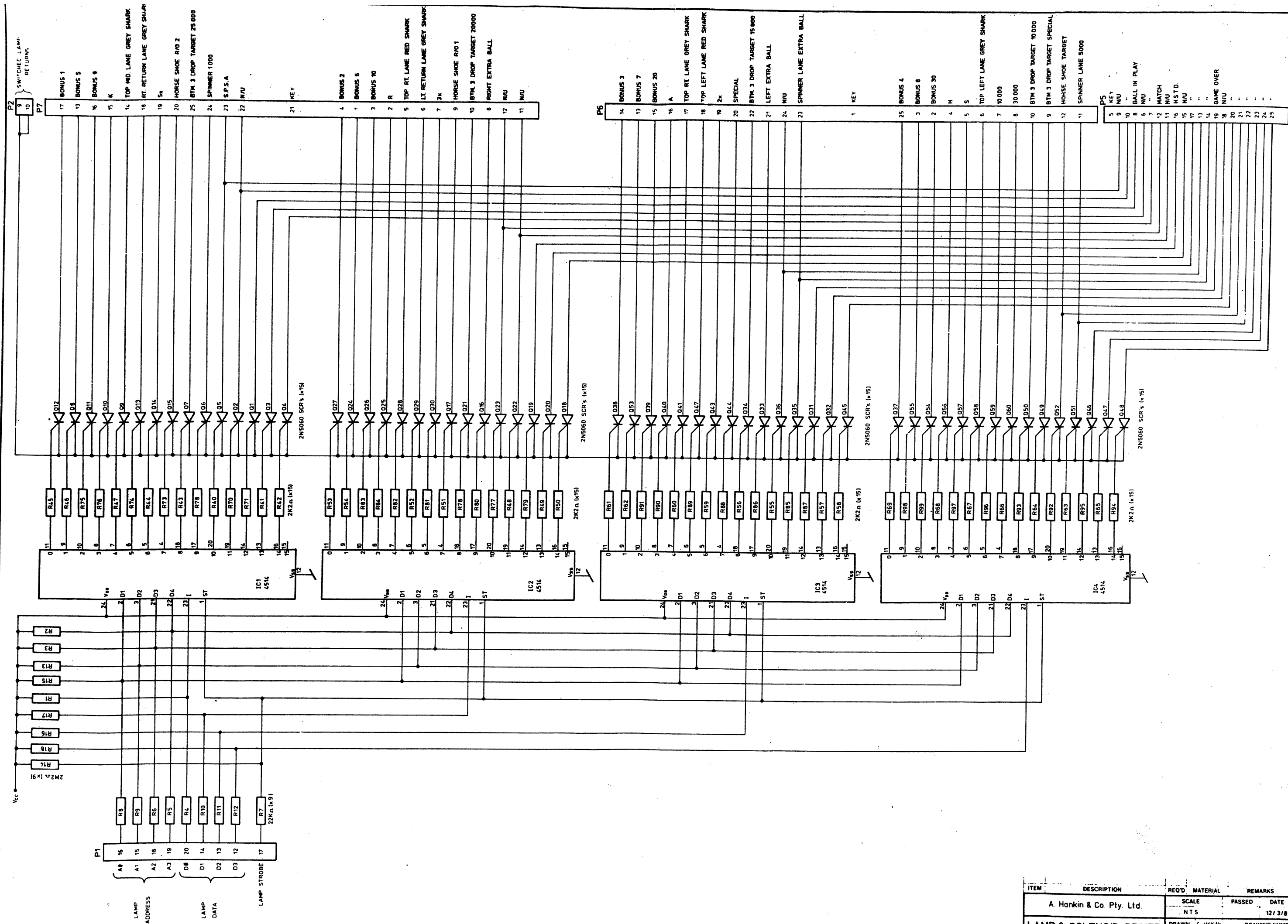
0200 - 02FF 256 x 4 CMOS RAM (IC4: 465101)

1000 - 1FFF 2K x 8 ROM (HANKINIPBALL) (IC1: 6802)

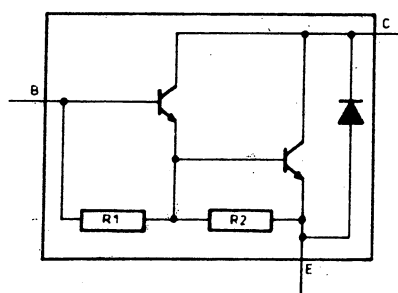
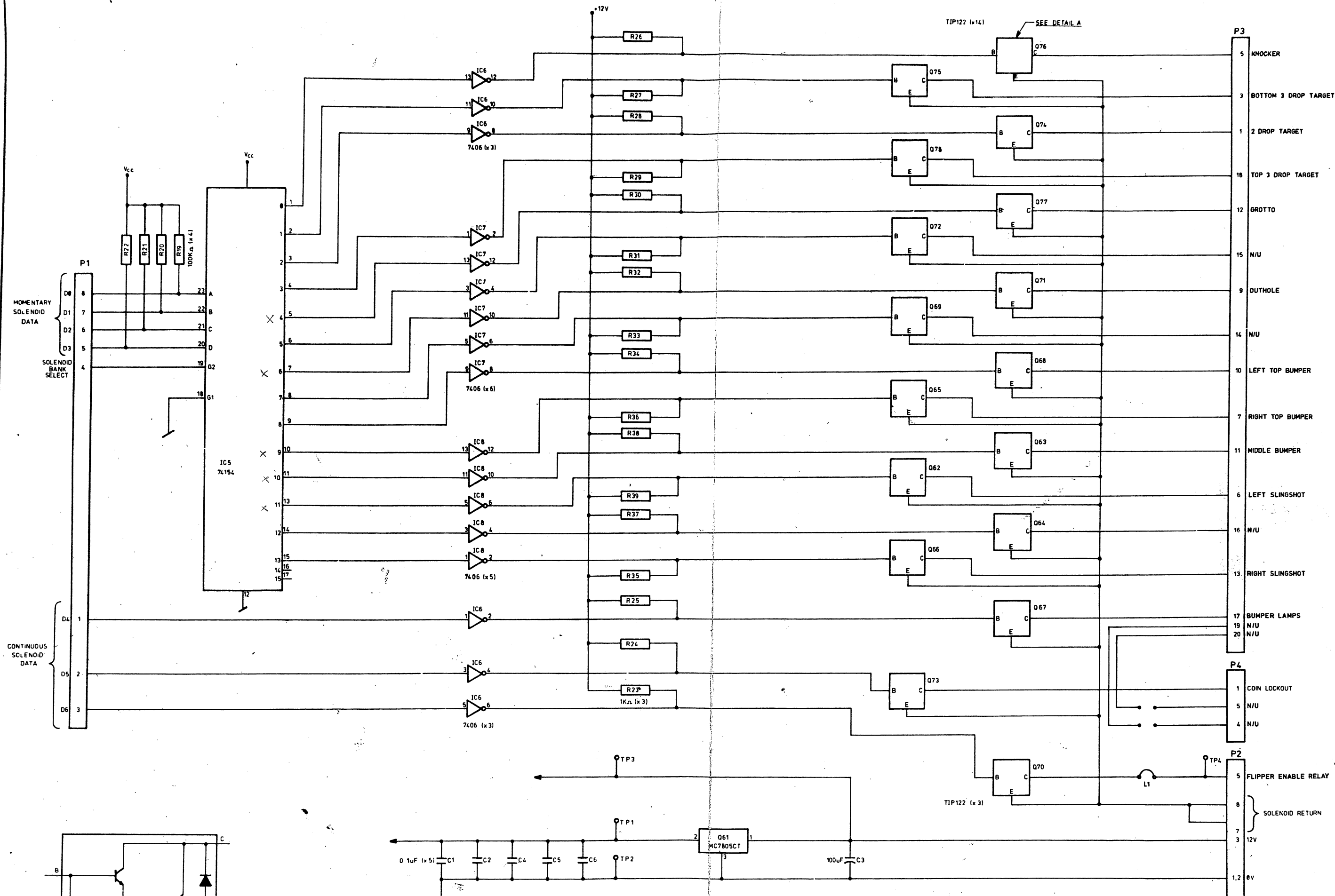
1000 - 1FFF 2K x 8 ROM (HANKINIPBALL) (IC1: 6802)

|                             |          |          |        |         |
|-----------------------------|----------|----------|--------|---------|
| A. Harkin & Co. Pty. Ltd.   |          | SCALE    | PASSED | DATE    |
| MPU CONTROL BOARD SCHEMATIC |          | 1:1      | NY     | 8/7/78  |
| DATE                        | REV. NO. | REVISION | DRAWN  | CHECKED |
|                             |          |          | NY     | NY      |

23/11/78  
DATE  
REV. NO.  
REVISION

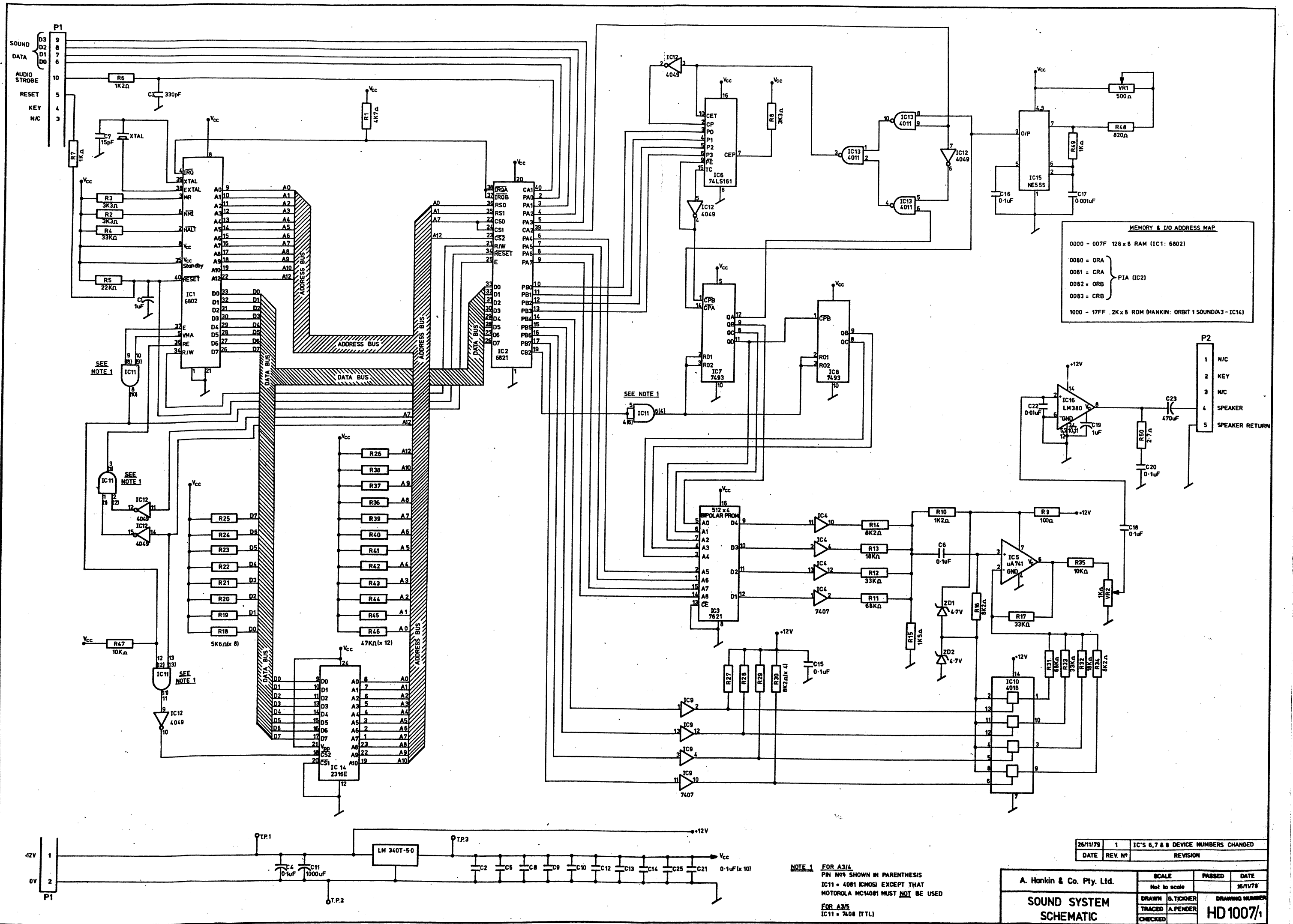


| ITEM | DESCRIPTION               | REQD           | MATERIAL       | REMARKS |
|------|---------------------------|----------------|----------------|---------|
|      | A. Hankin & Co. Pty. Ltd. | SCALE          | PASSED         | DATE    |
|      |                           | NTS            |                | 12/3/80 |
|      | LAMP & SOLENOID DRIVER    | DRAWN C. MCKAY | DRAWING NUMBER |         |
|      | SCHEMATIC - SHARK         | TRACED A.P.    | HD 1073        |         |
|      |                           | CHECKED        | SHEET 1 OF 2   |         |



DETAIL A

| ITEM                   | DESCRIPTION | REQ'D   | MATERIAL | REMARKS      |
|------------------------|-------------|---------|----------|--------------|
| A Hankin & Co Pty Ltd  |             | SCALE   | NTS      | PASSED DATE  |
| LAMP & SOLENOID DRIVER |             | DRAWN   | C MCKAY  | 11/3/80      |
| SCHEMATIC - SHARK      |             | TRACED  | AP       | HD1073       |
|                        |             | CHECKED |          | SHEET 2 OF 2 |



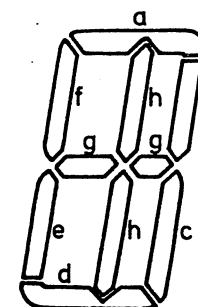
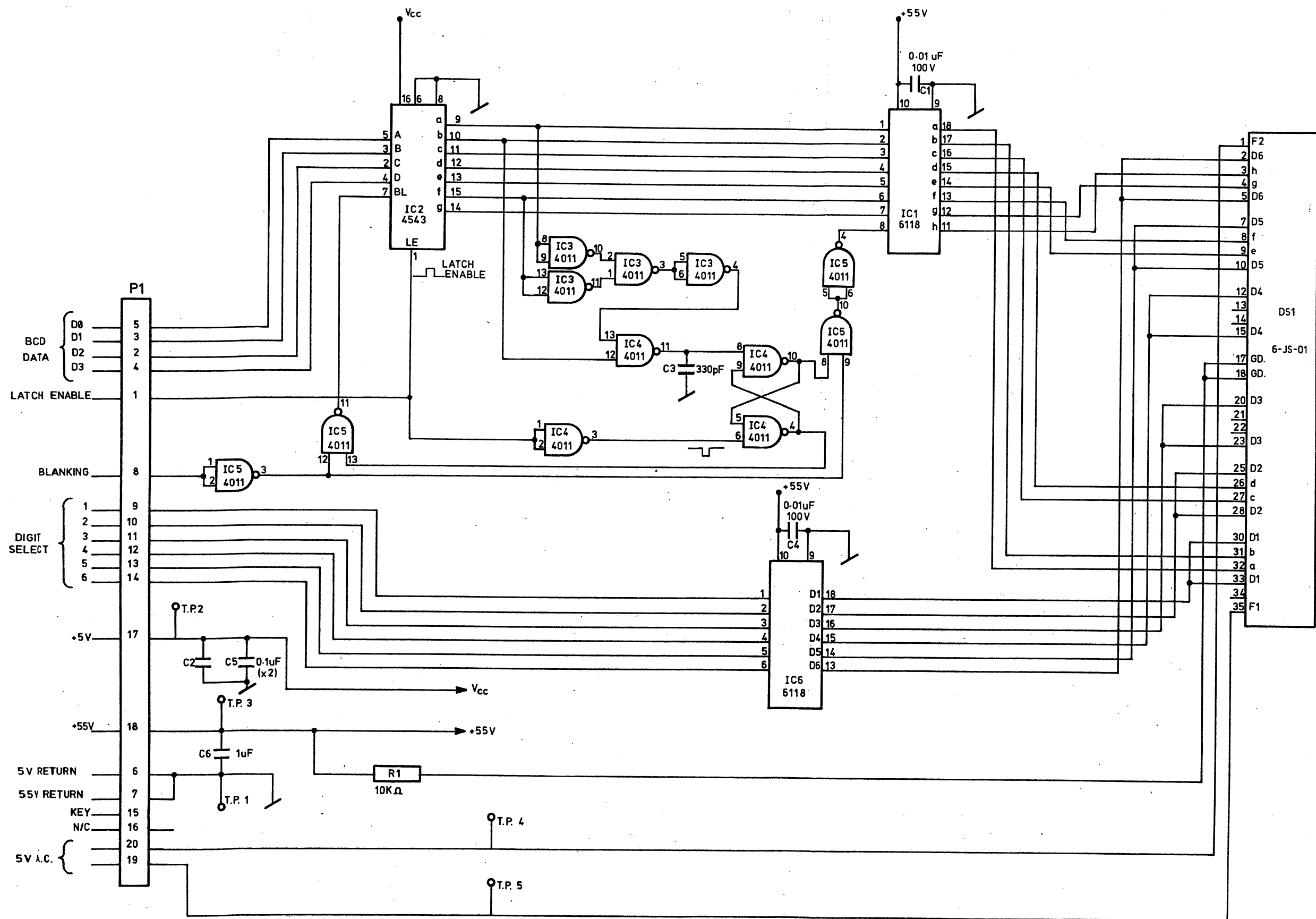
MEMORY & I/O ADDRESS MAP

|             |                                              |
|-------------|----------------------------------------------|
| 0000 - 007F | 128 x 8 RAM (IC1: 6802)                      |
| 0080 = ORA  | PIA (IC2)                                    |
| 0081 = CRA  |                                              |
| 0082 = ORB  |                                              |
| 0083 = CRB  |                                              |
| 1000 - 17FF | 2K x 8 ROM (HANKIN: ORBIT 1 SOUND/A3 - IC14) |

|          |         |                                      |
|----------|---------|--------------------------------------|
| 26/11/79 | 1       | IC'S 6, 7 & 8 DEVICE NUMBERS CHANGED |
| DATE     | REV. N° | REVISION                             |

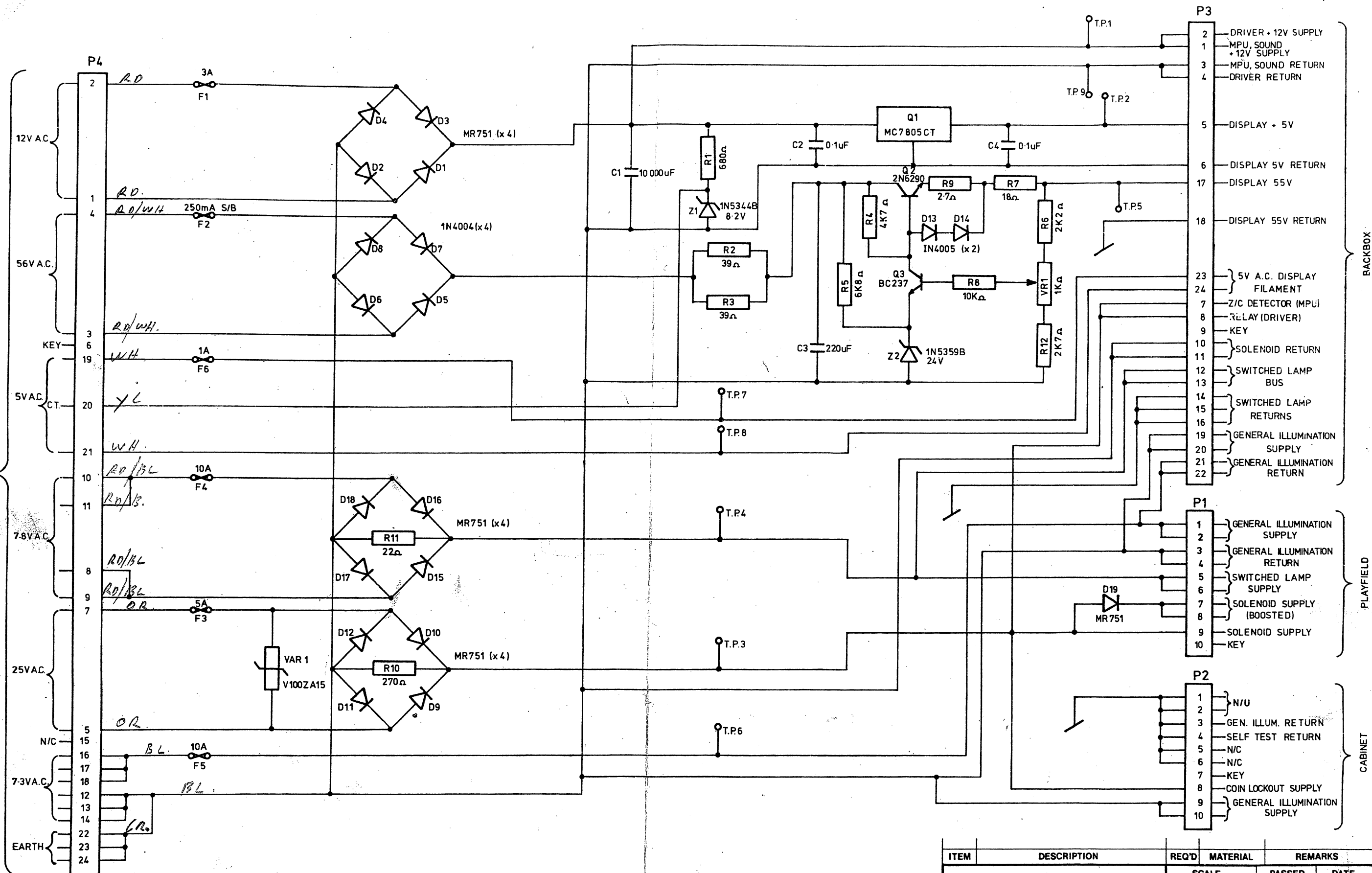
NOTE 1 FOR A3/4  
PIN N°9 SHOWN IN PARENTHESIS  
IC11 = 4081 (CMOS) EXCEPT THAT  
MOTOROLA MC14081 MUST NOT BE USED  
FOR A3/5  
IC11 = 7408 (TTL)

|                           |  |                  |                |         |
|---------------------------|--|------------------|----------------|---------|
| A. Hankin & Co. Pty. Ltd. |  | SCALE            | PASSED         | DATE    |
|                           |  | Not to scale     |                | 16/1/78 |
| SOUND SYSTEM SCHEMATIC    |  | DRAWN G. TICKNER | DRAWING NUMBER |         |
|                           |  | TRACED A. PENDER | HD 1007/1      |         |
|                           |  | CHECKED          |                |         |



| ITEM                      | DESCRIPTION | REQ'D   | MATERIAL  | REMARKS                   |
|---------------------------|-------------|---------|-----------|---------------------------|
| A. Hankin & Co. Pty. Ltd. |             | SCALE   | PASSED    | DATE                      |
|                           |             | N.T.S.  |           | 3/7/76                    |
| DISPLAY A4 SCHEMATIC      |             | DRAWN   | C. MCKAY  | DRAWING NUMBER<br>HD 1002 |
|                           |             | TRACED  | A. PENDER |                           |
|                           |             | CHECKED |           |                           |

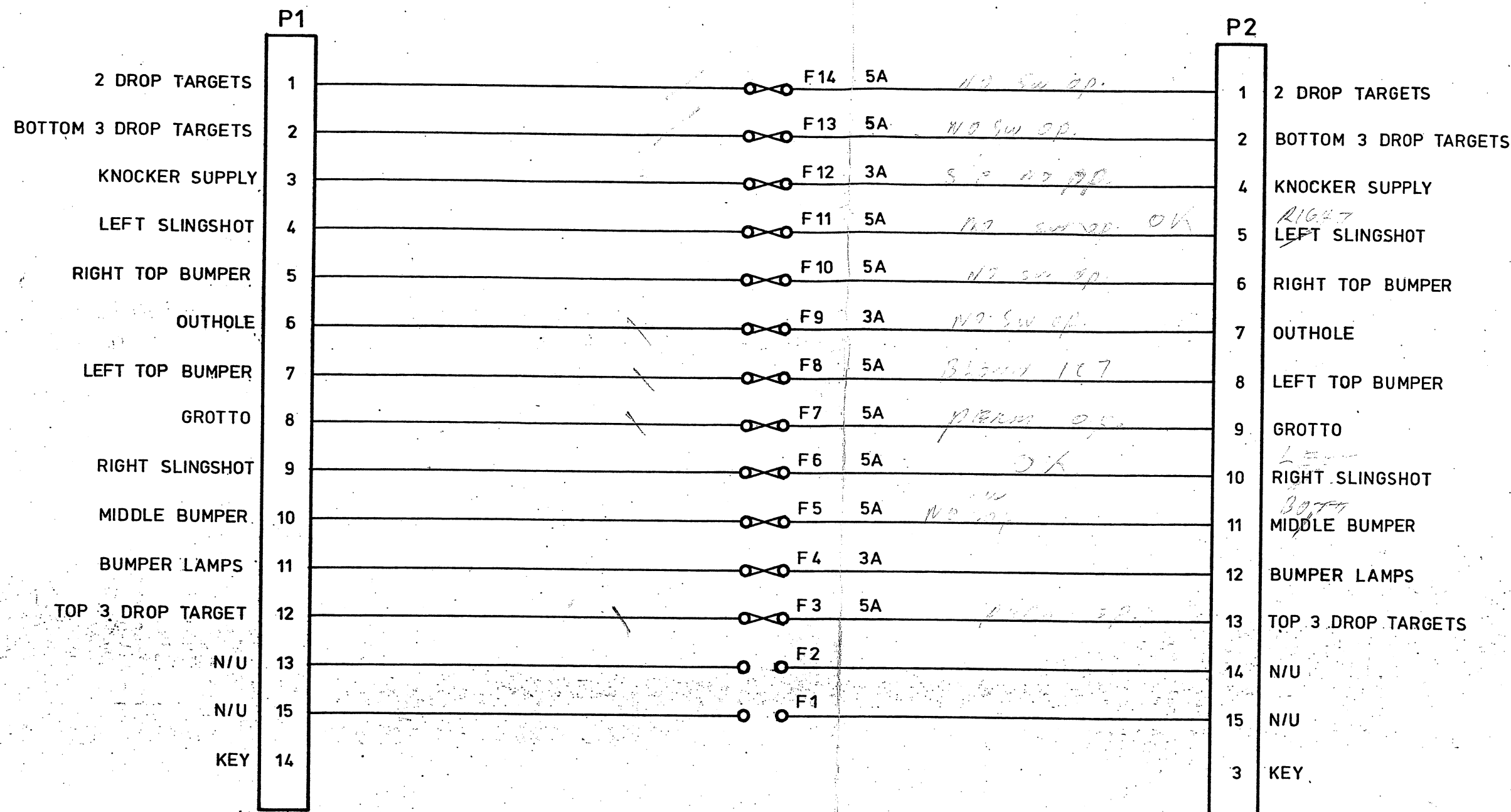
FROM TRANSFORMER



|          |         |                                       |
|----------|---------|---------------------------------------|
| 2/7/80   | 2       | FLIPPER MODIFICATION                  |
| 17/10/79 | 1       | F1 RATING CHANGED: EXTRA T.P. DELETED |
| DATE     | REV. N° | REVISION                              |

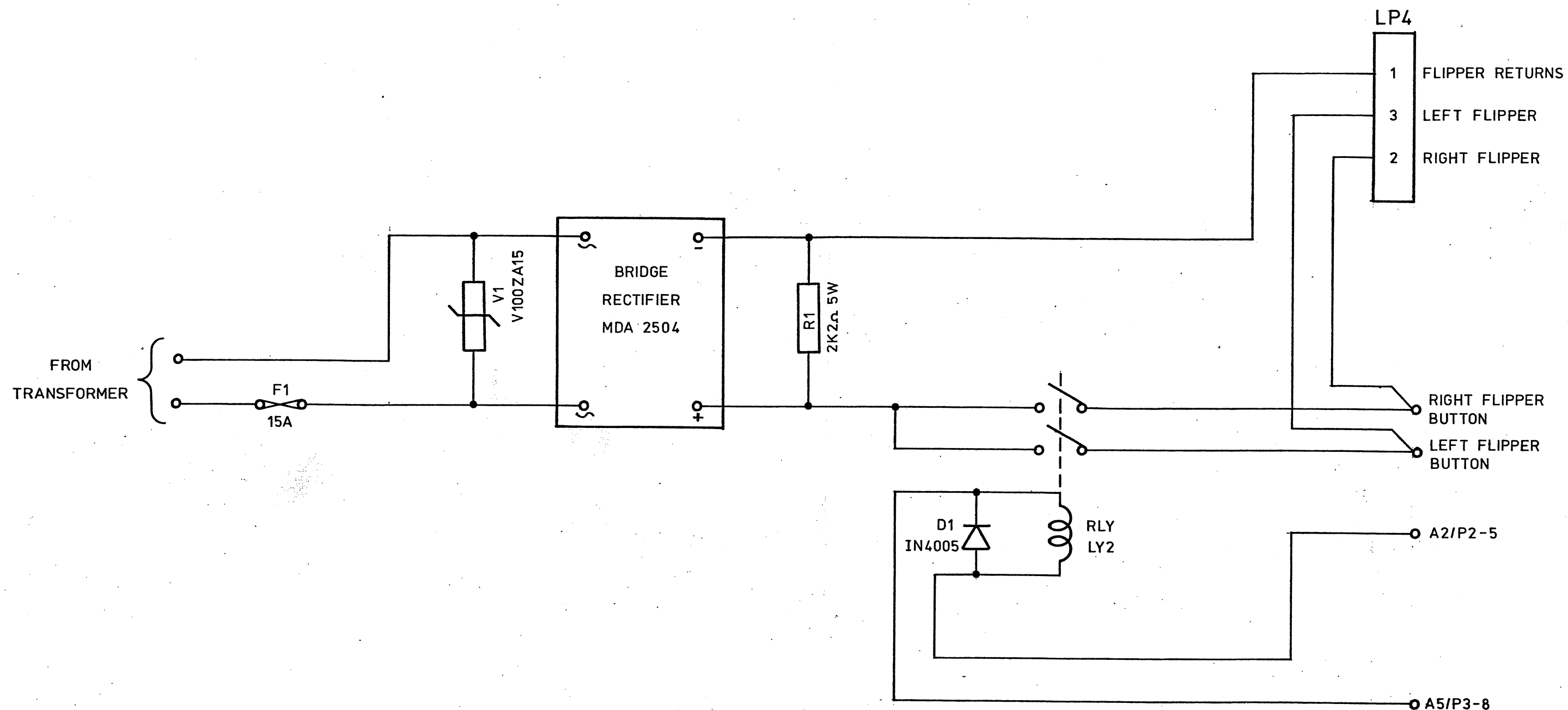
| ITEM                      | DESCRIPTION | REQ'D   | MATERIAL | REMARKS        |
|---------------------------|-------------|---------|----------|----------------|
| A. Hankin & Co. Pty. Ltd. |             | SCALE   | PASSED   | DATE           |
|                           |             | N.T.S.  |          | 17/7/78        |
| POWER SUPPLY A5 SCHEMATIC |             | DRAWN   | C. MCKAY | DRAWING NUMBER |
|                           |             | TRACED  | A.P.     | HD1003/2       |
|                           |             | CHECKED |          |                |





| ITEM                                     | DESCRIPTION | REQ'D   | MATERIAL | REMARKS                  |         |
|------------------------------------------|-------------|---------|----------|--------------------------|---------|
| A. Hankin & Co. Pty. Ltd.                |             | SCALE   |          | PASSED                   | DATE    |
|                                          |             | N.T.S.  |          |                          | 19/3/80 |
| SHARK FUSE BOARD A6<br>SCHEMATIC DIAGRAM |             | DRAWN   | G.T.     | DRAWING NUMBER<br>HD1074 |         |
|                                          |             | TRACED  | A.P.     |                          |         |
|                                          |             | CHECKED |          |                          |         |





| ITEM                              | DESCRIPTION | REQ'D   | MATERIAL | REMARKS                         |         |
|-----------------------------------|-------------|---------|----------|---------------------------------|---------|
| A. Hankin & Co. Pty. Ltd.         |             | SCALE   |          | PASSED                          | DATE    |
|                                   |             | N.T.S.  |          |                                 | 16/7/80 |
| FLIPPER BOOSTER<br>SCHEMATIC (A8) |             | DRAWN   | J.R.     | DRAWING NUMBER<br><b>HD1091</b> |         |
|                                   |             | TRACED  | A.P.     |                                 |         |
|                                   |             | CHECKED |          |                                 |         |