## **ASSIGNMENTS V12**

### Start Of Day (SOD) and Move/Route settings.

#### SOD, Event 9.

This sets points to a known start position and is also used to trigger all the sensor/producer modules.

14 Points affected: 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, 25, 27 and 57.

| Point | State  | Event | Action | Sensor |
|-------|--------|-------|--------|--------|
| 13    | CLOSED | 13    | OFF    | 101    |
| 14    | CLOSED | 14    | OFF    | 102    |
| 15    | CLOSED | 15    | OFF    | 111    |
| 16    | CLOSED | 16    | OFF    | 112    |
| 18    | CLOSED | 18    | OFF    | 114    |
| 19    | THROWN | 19    | ON     | 115    |
| 20    | CLOSED | 20    | OFF    | 116    |
| 21    | CLOSED | 21    | OFF    | 131    |
| 22    | THROWN | 22    | ON     | 132    |
| 23    | CLOSED | 23    | OFF    | 151    |
| 24    | THROWN | 24    | ON     | 152    |
| 25    | CLOSED | 25    | OFF    | 153    |
| 27    | CLOSED | 27    | OFF    | 155    |
| 57    | CLOSED | 57    | OFF    | 171    |

#### SEND, Event 10.

This event is normally hidden in the mimic panel software so if a panel is plugged in to a live system the sensor/producer modules are triggered to return their current IP settings so automatically updating all panels.

#### MOVE/ROUTES.

6 ROUTES are provided which correspond to the layout MOVES;

#### Moves/Routes

| Event   | Event No. | Set                                 | Route Set |
|---------|-----------|-------------------------------------|-----------|
| SOD     | 9         | SOD positions                       | NA        |
| Route 1 | 1         | NG FY to Loco Loop. Long to GW      | 301       |
| Route 2 | 2         | NG TT<>TT. NG to Brew Corner.       | 302       |
| Route 3 | 3         | O Gauge Through. NG TO Brew Loop    | 303       |
| Route 4 | 4         | NG Long to FY ACW                   | 304       |
| Route 5 | 5         | O Gauge Through NG. Loco Loop to FY | 305       |
| Route 6 | 6         | NG Short to FY. CWC                 | 306       |
|         |           |                                     |           |

| Event | Event No. | Action                      | Event | Event No. | Action       |
|-------|-----------|-----------------------------|-------|-----------|--------------|
| SOD   | 9         | Set points and Send sensors | SEND  | 10        | Send sensors |

## TT BREW BOARD N (1) Designations

There are 2 servo controlled points on the front section of this board. The hidden section consists 2 hand operated turntables.

#### **Modules**

| Name     | Type     | Software  | Node | Events |
|----------|----------|-----------|------|--------|
| MOTDRV1  | CANACC5  | 2t        | 411  | 2      |
| POSNIND1 | CANACE8C | 2gBeta100 | 412  | 2      |

#### **Drivers**

| Module  | OP Con | Point Or<br>LED Ref | Input<br>Event | ON<br>Action | OP<br>A | State | OP<br>B | State | SOD | FROG<br>FEED |
|---------|--------|---------------------|----------------|--------------|---------|-------|---------|-------|-----|--------------|
| MOTDRV1 | 1 & 2  | P13                 | 13             | Thrown       | 1       | ON    | 2       | OFF   | OFF | NONE         |
| MOTDRV1 | 3 & 4  | P14                 | 14             | Thrown       | 3       | ON    | 4       | OFF   | OFF | NONE         |
| MOTDRV1 | 5      | LOCO NG-TT          | 281            | TT Set       | 5       | ON    | -       | -     | -   | -            |
| MOTDRV1 | 6      | LOCO SG-TT          | 282            | TT Set       | 6       | ON    | -       | -     | -   | -            |
| MOTDRV1 | 7      | MOVE IND            | See below      |              |         |       | -       | -     | -   | -            |
| MOTDRV1 | 8      | Not used.           | 1              | -            | -       | -     | -       | -     | -   | -            |

#### Move Action.

| Module  | Point<br>Ref | Move 1<br>Action | Move 2<br>Action | Move 3<br>Action | Move 4<br>Action | Move 5<br>Action | Move 6<br>Action |
|---------|--------------|------------------|------------------|------------------|------------------|------------------|------------------|
| MOTDRV1 | P13          | -                | Closed           | -                | -                | -                | -                |
| MOTDRV1 | P14          | Closed           | Thrown           | Closed           | Closed           | -                | -                |

#### **Sensors**

| Module   | Input No | Source Device  | Active State | Input Active | Produced | Inhibit |
|----------|----------|----------------|--------------|--------------|----------|---------|
|          |          | Number (Pin)   |              | State        | Event    | SoD.    |
| POSNIND1 | 1        | P13 (7)        | Thrown       | LOW          | 101      | 0       |
| POSNIND1 | 2        | P14 (7)        | Thrown       | LOW          | 102      | 0       |
| POSNIND1 | 3        | BREW NG TT Set | Active       | LOW          | 103      | 0       |
| POSNIND1 | 4        | BREW SG TT Set | Active       | LOW          | 104      | 0       |
| POSNIND1 | 5        | None           | Dummy 3      | NA           | 273      | 1       |
| POSNIND1 | 6        | None           | Dummy 4      | NA           | 274      | 1       |
| POSNIND1 | 7        | Seq Decrement  | Active       | LOW          | 7*       | 1       |
| POSNIND1 | 8        | Seq Increment  | Active       | LOW          | 8*       | 1       |

MOTDRV1 Output 7 designations.

| morbitti oatpat i    | mo i bitti i odepat i dooigiidaoiloi |                              |        |                    |  |  |  |  |  |  |  |
|----------------------|--------------------------------------|------------------------------|--------|--------------------|--|--|--|--|--|--|--|
| Sequence description | Number                               | Input Events                 | Action | Output from module |  |  |  |  |  |  |  |
| Move/Route SENT      | 1, 2, 3, 4, 5, 6                     | 1, 2, 3, 4, 5, 6             | ON     | Output High        |  |  |  |  |  |  |  |
| Move Route SET       | 1, 2, 3, 4, 5, 6                     | 301, 302, 303, 304, 305, 306 | OFF    | Output low         |  |  |  |  |  |  |  |

<sup>\*</sup> Also produces next or previous Move/Route numbers

Connection colours to points.

Point 13: Pink to 1 White to 2 Point 14: Pink to 3 White to 4

## BREWERY BOARD A (2)

## **Designations**

There are 6 servo controlled points on the front section of this board and 2 Juicer driven crossovers on the industrial section.

#### **Modules**

| Name     | Туре     | Software | Node | Events |
|----------|----------|----------|------|--------|
| MOTDRV2  | CANACC5  | 2t       | 421  | 4      |
| MOTDRV2A | CANACC5  | 2t       | 422  | 2      |
| POSNIND2 | CANACE8C | 2q       | 423  | 6      |

#### **Drivers**

| Module   | Point | Input | ON     | OP | State | OP | State | SOD | FROG |
|----------|-------|-------|--------|----|-------|----|-------|-----|------|
|          | Ref   | Event | Action | Α  |       | В  |       |     | FEED |
| MOTDRV2  | P15   | 15    | Thrown | 1  | ON    | 2  | OFF   | OFF | NOR  |
| MOTDRV2  | P16   | 16    | Thrown | 3  | ON    | 4  | OFF   | -   | REV  |
| MOTDRV2  | P17   | 17    | Thrown | 5  | ON    | 6  | OFF   | -   | REV  |
| MOTDRV2  | P18   | 18    | Thrown | 7  | ON    | 8  | OFF   | -   | REV  |
| MOTDRV2A | P19   | 19    | Thrown | 1  | ON    | 2  | OFF   | ON  | NOR  |
| MOTDRV2A | P20   | 20    | Thrown | 3  | ON    | 4  | OFF   | OFF | NOR  |
| MOTDRV2A | Spare | -     | -      | 5  | -     | 6  | -     | -   | -    |
| MOTDRV2A | Spare | -     | -      | 7  | -     | 8  | -     | -   | -    |

#### Move Action.

| Module   | Point | Move 1 | Move 2 | Move 3 | Move 4 | Move 5 | Move 6 |
|----------|-------|--------|--------|--------|--------|--------|--------|
|          | Ref   | Action | Action | Action | Action | Action | Action |
| MOTDRV2  | P15   | -      | Closed | -      | Closed | -      | -      |
| MOTDRV2  | P16   | Closed | Thrown | Closed | Thrown | -      | -      |
| MOTDRV2  | P17   | -      | -      | Closed | -      | Closed | -      |
| MOTDRV2  | P18   | -      | Closed | Thrown | Closed | Thrown | -      |
| MOTDRV2A | P19   | Thrown | Closed | Closed | Closed | Closed | Thrown |
| MOTDRV2A | P20   | Closed | Closed | Closed | Closed | Closed | Closed |
| MOTDRV2A | Spare | -      | -      | -      | -      | -      | -      |
| MOTDRV2A | Spare | -      | -      | -      | -      | -      | -      |

#### Sensors

| Module   | Input No | Source Device<br>Number (Pin) | Active State | Input Active State | Produced<br>Event | Inhibit<br>SoD. |
|----------|----------|-------------------------------|--------------|--------------------|-------------------|-----------------|
| POSNIND2 | 1        | P15 (7)                       | Thrown       | LOW                | 111               | 0               |
| POSNIND2 | 2        | P16 (6)                       | Thrown       | LOW                | 112               | 0               |
| POSNIND2 | 3        | P17 (7)                       | Thrown       | LOW                | 113               | 0               |
| POSNIND2 | 4        | P18 (6)                       | Thrown       | LOW                | 114               | 0               |
| POSNIND2 | 5        | P19 (6)                       | Thrown       | LOW                | 115               | 0               |
| POSNIND2 | 6        | P20 (7)                       | Thrown       | LOW                | 116               | 0               |
| POSNIND2 | 7        | None                          | Dummy 1      | NA                 | 271               | 1               |
| POSNIND2 | 8        | None                          | Dummy 2      | NA                 | 272               | 1               |

Connection colours to points.

| Point 15: | Pink to 1 | White to 2 | Point 18: | Pink to 8 | White to 7 |
|-----------|-----------|------------|-----------|-----------|------------|
| Point 16: | Pink to 4 | White to 3 | Point 19: | Pink to 2 | White to 1 |
| Point 17: | Pink to 5 | White to 6 | Point 20: | Pink to 3 | White to 4 |

Juicer for X2 and X3. Link 1 fitted. Link 2 not fitted. Outputs 5 and 6 not used.

## FLOUR MILL BOARD B (3)

## **Designations**

There are 2 servo controlled points on the front section of this board and 2 Juicer driven crossovers on the industrial section.

#### **Modules**

| Name     | Туре     | Software | Node | Events |
|----------|----------|----------|------|--------|
| MOTDRV3  | CANACC5  | 2t       | 431  | 2      |
| POSNIND3 | CANACE8C | 2g       | 432  | 2      |

#### **Drivers**

| Module  | Point | Input | ON     | OP | State | OP | State | SOD | FROG |
|---------|-------|-------|--------|----|-------|----|-------|-----|------|
|         | Ref   | Event | Action | Α  |       | В  |       |     | FEED |
| MOTDRV3 | P21   | 21    | Thrown | 1  | ON    | 2  | OFF   | OFF | NOR  |
| MOTDRV3 | P22   | 22    | Thrown | 3  | ON    | 4  | OFF   | ON  | REV  |
| MOTDRV3 | Spare | -     | -      | 5  | -     | 6  | -     | -   | -    |
| MOTDRV3 | Spare | -     | -      | 7  | -     | 8  | -     | -   | -    |

#### Move Action.

| Module  | Point<br>Ref | Move 1<br>Action | Move 2<br>Action | Move 3<br>Action | Move 4<br>Action | Move 5<br>Action | Move 6<br>Action |  |  |  |  |
|---------|--------------|------------------|------------------|------------------|------------------|------------------|------------------|--|--|--|--|
| MOTDRV3 | P21          | Closed           | Closed           | Closed           | Closed           | Closed           | Closed           |  |  |  |  |
| MOTDRV3 | P22          | Thrown           | Closed           | Closed           | Closed           | Closed           | Thrown           |  |  |  |  |
| MOTDRV3 | Spare        | -                | -                | -                | -                | -                | -                |  |  |  |  |
| MOTDRV3 | Spare        | -                | -                | -                | -                | -                | -                |  |  |  |  |

#### **Sensors**

| 00110010 |          |                      |              |                    |                   |                 |
|----------|----------|----------------------|--------------|--------------------|-------------------|-----------------|
| Module   | Input No | Source Device Number | Active State | Input Active State | Produced<br>Event | Inhibit<br>SoD. |
| POSNIND3 | 1        | P21 ()               | Thrown       | LOW                | 131               | 0               |
| POSNIND3 | 2        | P22 ()               | Thrown       | LOW                | 132               | 0               |
| POSNIND3 | 3        | None                 | Dummy 1      | NA                 | 271               | 1               |
| POSNIND3 | 4        | None                 | Dummy 2      | NA                 | 272               | 1               |
| POSNIND3 | 5        | None                 | Dummy 3      | NA                 | 273               | 1               |
| POSNIND3 | 6        | None                 | Dummy 4      | NA                 | 274               | 1               |
| POSNIND3 | 7        | None                 | Dummy 5      | NA                 | 275               | 1               |
| POSNIND3 | 8        | None                 | Dummy 6      | NA                 | 276               | 1               |

Connection colours to points.

Point 21: Pink to 1 White to 2 Point 22: Pink to 4 White to 3 (Rev)

Juicer for X3 and X4. Link 1 fitted. Link 2 not fitted. Outputs 5 and 6 not used.

## BOARD C (4)

## **Designations**

There are 5 servo controlled points on the front section of this board and 2 Juicer driven crossovers on the industrial section.

#### **Modules**

| Name     | Type     | Software | Node | Events |
|----------|----------|----------|------|--------|
| MOTDRV4  | CANACC5  | 2t       | 441  | 4      |
| MOTDRV4A | CANACC5  | 2t       | 442  | 1      |
| POSNIND4 | CANACE8C | 2q       | 443  | 5      |

#### **Drivers**

| Dilivois |              |                |              |         |       |         |       |     |              |
|----------|--------------|----------------|--------------|---------|-------|---------|-------|-----|--------------|
| Module   | Point<br>Ref | Input<br>Event | ON<br>Action | OP<br>A | State | OP<br>B | State | SOD | FROG<br>FEED |
| MOTDRV4  | P23          | 23             | Thrown       | 1       | ON    | 2       | OFF   | -   | NOR          |
| MOTDRV4  | P24 A        | 24             | Thrown       | 3       | ON    | 4       | OFF   | ON  | REV          |
| MOTDRV4  | P24 B        | 24             | Thrown       | 5       | ON    | 6       | OFF   | ON  | NOR          |
| MOTDRV4  | P25          | 25             | Thrown       | 7       | ON    | 8       | OFF   | 1   | REV          |
| MOTDRV4A | P26          | 26             | Thrown       | 1       | ON    | 2       | OFF   | -   | REV          |
| MOTDRV4A | P27          | 25 & 27        | Thrown       | 3       | ON    | 4       | OFF   | -   | NOR          |
| MOTDRV4A | Spare        | -              | -            | 5       | -     | 6       | -     | -   | -            |
| MOTDRV4A | Spare        | -              | •            | 7       | -     | 8       | -     | -   | -            |

#### Move Action.

| Module   | Point<br>Ref | Move 1<br>Action | Move 2<br>Action | Move 3<br>Action | Move 4<br>Action | Move 5<br>Action | Move 6<br>Action |
|----------|--------------|------------------|------------------|------------------|------------------|------------------|------------------|
| MOTDRV4  | P23          | -                | Closed           | Thrown           | Closed           | Thrown           | -                |
| MOTDRV4  | P24 A        | -                | Closed           | -                | Closed           | Thrown           | Thrown           |
| MOTDRV4  | P24 B        | -                | Closed           | -                | Closed           | Thrown           | Thrown           |
| MOTDRV4  | P25          | -                | Closed           | -                | Closed           | -                | -                |
| MOTDRV4A | P26          | •                | -                | -                | -                | -                | -                |
| MOTDRV4A | P27          | -                | Closed           | -                | Closed           | -                | -                |
| MOTDRV4A | Spare        | -                | -                | -                | -                | -                | -                |
| MOTDRV4A | Spare        | -                | -                | -                | -                | -                | -                |

#### **Sensors**

| Module   | Input No | Source Device<br>Number (Pin) | Active State | Input Active State | Produced<br>Event | Inhibit<br>SoD. |
|----------|----------|-------------------------------|--------------|--------------------|-------------------|-----------------|
| POSNIND4 | 1        | P23 (7)                       | Thrown       | LOW                | 151               | 0               |
| POSNIND4 | 2        | P24 (A6 – B7)                 | Thrown       | LOW                | 152               | 0               |
| POSNIND4 | 3        | P25 (6)                       | Thrown       | LOW                | 153               | 0               |
| POSNIND4 | 4        | P26 (7)                       | Thrown       | LOW                | 154               | 0               |
| POSNIND4 | 5        | P27 (7)                       | Thrown       | LOW                | 155               | 0               |
| POSNIND4 | 6        | None                          | Dummy 1      | NA                 | 271               | 1               |
| POSNIND4 | 7        | None                          | Dummy 2      | NA                 | 272               | 1               |
| POSNIND4 | 8        | None                          | Dummy 3      | NA                 | 273               | 1               |

Connection colours to points.

Point 23: Pink to 1 White to 2 Point 25: Pink to 8 White to 7 Point 24A: Pink to 4 White to 3 Point 26: Pink to 1 White to 2 Pink to 3 Point 24B: Pink to 6 White to 5 Point 27: White to 4

Juicer for X5 and X6. Link 1 fitted. Link 2 not fitted. Outputs 5 and 6 not used.

# TT LOCO BOARD D (5) Designations

There is 1 servo controlled point on the front section of this board. The hidden section consists 2 hand operated turntables.

#### **Modules**

| Name     | Туре     | Software  | Node | Events |
|----------|----------|-----------|------|--------|
| MOTDRV5  | CANACC5  | 2t        | 451  | 1      |
| POSNIND5 | CANACE8C | 2qBeta100 | 452  | 1      |

#### **Drivers**

| Dilveis |        |                        |                |              |         |       |         |       |     |              |
|---------|--------|------------------------|----------------|--------------|---------|-------|---------|-------|-----|--------------|
| Module  | OP Con | Point<br>Or LED<br>Ref | Input<br>Event | ON<br>Action | OP<br>A | State | OP<br>B | State | SOD | FROG<br>FEED |
| MOTDRV5 | 1 & 2  | P57                    | 57             | Thrown       | 1       | ON    | 2       | OFF   | OFF | NONE         |
| MOTDRV5 | 3 & 4  | Spare                  | ı              | -            | 3       | -     | 4       | -     | ı   | -            |
| MOTDRV5 | 5      | BREW NG-TT             | 283            | TT Set       | 5       | ON    | •       | -     | ı   | -            |
| MOTDRV5 | 6      | BREW SG-TT             | 284            | TT Set       | -       | -     | 6       | ON    | ı   | -            |
| MOTDRV5 | 7      | MOVE IND               | See below      | MOVE SET     | 7       | OFF   | •       | -     | ı   | -            |
| MOTDRV5 | 8      | Not used.              | -              | -            | -       | -     |         | -     | -   | -            |

#### Move Action.

| Module  | Point<br>Ref |   | Move 2<br>Action |   |        |        | Move 6<br>Action |
|---------|--------------|---|------------------|---|--------|--------|------------------|
| MOTDRV5 | P57          | - | Thrown           | - | Closed | Closed | Closed           |

#### **Sensors**

| Module   | Input No | Source Device<br>Number (Pin) | Active State | Input Active<br>State | Produced<br>Event | Inhibit<br>SoD. |
|----------|----------|-------------------------------|--------------|-----------------------|-------------------|-----------------|
| POSNIND5 | 1        | P57 (6)                       | Thrown       | LOW                   | 171               | 0               |
| POSNIND5 | 2        | None                          | Dummy 1      | NA                    | 271               | 1               |
| POSNIND5 | 3        | LOCO NG TT Set                | Active       | LOW                   | 173               | 0               |
| POSNIND5 | 4        | LOCO SG TT Set                | Active       | LOW                   | 174               | 0               |
| POSNIND5 | 5        | None                          | Dummy 2      | NA                    | 272               | 1               |
| POSNIND5 | 6        | SOD Request                   | Active       | LOW                   | 285               | 1               |
| POSNIND5 | 7        | Seq Decrement                 | Active       | LOW                   | 7                 | 1               |
| POSNIND5 | 8        | Seq Increment                 | Active       | LOW                   | 8                 | 1               |

MOTDRV1 Output 7 designations.

| Sequence description | Number           | Input Events                 | Action | Output from module |
|----------------------|------------------|------------------------------|--------|--------------------|
| Move/Route SENT      | 1, 2, 3, 4, 5, 6 | 1, 2, 3, 4, 5, 6             | ON     | Output High        |
| Move Route SET       | 1, 2, 3, 4, 5, 6 | 301, 302, 303, 304, 305, 306 | OFF    | Output low         |

Connection colours to points.

Point 57: Pink to 2 White to 1

## GASOMETER BOARD E (6)

## **Designations**

This board houses the main power supply, the CANWEB computer and the 2 CANCOND units.

#### **Modules**

| Name      | Туре     | Software | Node | Events |
|-----------|----------|----------|------|--------|
| CONDMOD6  | CANCOND8 | 2n       | 634  | -      |
| CONDMOD6A | CANCOND8 | 2n       | 635  | -      |

## FIDDLE YARD LOCO BOARD G (8)

## **Designations**

There are 2 servo controlled points on this board controlled by an ACC5 driver which is configured to give the three states OUTER, CENTRE and INNER. Positions are monitored via switch outputs on the Tortoise motors and the 4 options are decoded via hardware logic to produce the three route states.

#### **Modules**

| Name     | Type     | Software | Node | Events |
|----------|----------|----------|------|--------|
| MOTDRV8  | CANACC5  | 2t       | 481  | 3      |
| POSNIND8 | CANACE8C | 2q       | 482  | 8      |

#### **Drivers**

| Dilveis |        |       |            |    |       |    |       |     |      |
|---------|--------|-------|------------|----|-------|----|-------|-----|------|
| Module  | Point  | Input | ON event   | OP | State | OP | State | SOD | FROG |
|         | Ref    | Event | Action     | Α  |       | В  |       |     | FEED |
| MOTDRV8 | P60    | 61    | Thrown     | 1  | ON    | 2  | OFF   | ON  | None |
| MOTDRV8 | P61    | 61    | Thrown     | 3  | ON    | 4  | OFF   | OFF | None |
| MOTDRV8 | P60    | 62    | Thrown     | 1  | ON    | 2  | OFF   | ON  | None |
| MOTDRV8 | P61    | 62    | Closed     | 3  | OFF   | 4  | ON    | OFF | None |
| MOTDRV8 | P60    | 63    | Closed     | 1  | OFF   | 2  | ON    | ON  | None |
| MOTDRV8 | P61    | 63    | Closed     | 3  | OFF   | 4  | ON    | OFF | None |
| MOTDRV8 | Outer  | 201   | Outer Set  | 5  | OFF   | -  | -     | -   | -    |
| MOTDRV8 | Centre | 202   | Centre Set | -  | -     | 6  | OFF   | -   | -    |
| MOTDRV8 | Inner  | 203   | Inner Set  | 7  | OFF   | -  | -     | -   | -    |
| MOTDRV8 | Spare  | -     | -          | -  | -     | 8  | -     | -   | -    |

#### Route commands.

| Route   | TRACK  | Point | Action | OP  | OP  | Point | Action | OP  | OP  |
|---------|--------|-------|--------|-----|-----|-------|--------|-----|-----|
|         |        | Ref   |        | Α   | В   | Ref   |        | Α   | В   |
| Route 1 | INNER  | P60   | Closed | OFF | ON  | P61   | Closed | OFF | ON  |
| Route 2 | INNER  | P60   | Closed | OFF | ON  | P61   | Closed | OFF | ON  |
| Route 3 | INNER  | P60   | Closed | OFF | ON  | P61   | Closed | OFF | ON  |
| Route 4 | INNER  | P60   | Closed | OFF | ON  | P61   | Closed | OFF | ON  |
| Route 5 | OUTER  | P60   | Thrown | ON  | OFF | P61   | Thrown | ON  | OFF |
| Route 6 | CENTRE | P60   | Thrown | ON  | OFF | P61   | Closed | OFF | ON  |

#### **Sensors**

| Module   | Input No | Source       | Active State | Input Active State | Produced<br>Event | Inhibit<br>SoD. |
|----------|----------|--------------|--------------|--------------------|-------------------|-----------------|
| POSNIND8 | 1        | Outer Logic  | Outer        | LOW                | 201               | 0               |
| POSNIND8 | 2        | Centre Logic | Centre       | LOW                | 202               | 0               |
| POSNIND8 | 3        | Inner Logic  | Inner        | LOW                | 203               | 0               |
| POSNIND8 | 4        | None         | Dummy 1      | NA                 | 271               | 1               |
| POSNIND8 | 5*       | Outer drive  | Outer        | LOW (ON Only)      | 61                | 1               |
| POSNIND8 | 6*       | Centre drive | Centre       | LOW (ON Only)      | 62                | 1               |
| POSNIND8 | 7*       | Inner drive  | Inner        | LOW (ON Only)      | 63                | 1               |
| POSNIND8 | 8        | None         | Dummy 2      | NA                 | 272               | 1               |

<sup>\*</sup> POSIND8 inputs 5, 6 and 7 connected to local push buttons to operate fiddle yard entry/exit.

## FIDDLE YARD BREW BOARD K (11) Designations

There are 2 servo controlled points on this board controlled by an ACC5 driver which is configured to give the three states OUTER, CENTRE and INNER. Positions are monitored via switch outputs on the Tortoise motors and the 4 options are decoded via hardware logic to produce the three route states.

#### **Modules**

| Name      | Туре     | Software | Node | Events |  |
|-----------|----------|----------|------|--------|--|
| MOTDRV11  | CANACC5  | 2t       | 511  | 3      |  |
| POSNIND11 | CANACE8C | 2a       | 512  | 3      |  |

#### **Drivers**

| Dilveis  |                |                 |              |                    |         |       |         |       |     |              |
|----------|----------------|-----------------|--------------|--------------------|---------|-------|---------|-------|-----|--------------|
| Module   | Input<br>Event | Input<br>Action | Point<br>Ref | ON event<br>Action | OP<br>A | State | OP<br>B | State | SOD | FROG<br>FEED |
| MOTDRV11 | 64             | OUTER           | P62          | Closed             | 1       | OFF   | 2       | ON    | ON  | None         |
| MOTDRV11 | 64             | OUTER           | P63          | Closed             | 3       | OFF   | 4       | ON    | OFF | None         |
| MOTDRV11 | 65             | CENTRE          | P62          | Thrown             | 1       | ON    | 2       | OFF   | ON  | None         |
| MOTDRV11 | 65             | CENTRE          | P63          | Closed             | 3       | OFF   | 4       | ON    | OFF | None         |
| MOTDRV11 | 66             | INNER           | P62          | Thrown             | 1       | ON    | 2       | OFF   | ON  | None         |
| MOTDRV11 | 66             | INNER           | P63          | Thrown             | 3       | ON    | 4       | OFF   | OFF | None         |
| MOTDRV11 | 231            | OUTER           | Outer        | Outer Set          | 5       | OFF   | -       | -     | -   | -            |
| MOTDRV11 | 232            | CENTRE          | Centre       | Centre Set         | -       | -     | 6       | OFF   | -   | -            |
| MOTDRV11 | 233            | INNER           | Inner        | Inner Set          | 7       | OFF   | -       | -     | -   | -            |
| MOTDRV11 | -              | -               | Spare        | -                  | -       | -     | 8       | -     | -   | -            |

#### Route commands.

| Route   | TRACK  | Point<br>Ref | Action | OP<br>A | OP<br>B | Point<br>Ref | Action | OP<br>A | OP<br>B |
|---------|--------|--------------|--------|---------|---------|--------------|--------|---------|---------|
| Route 1 | OUTER  | P62          | Closed | OFF     | ON      | P63          | Closed | OFF     | ON      |
| Route 2 | CENTRE | P62          | Thrown | ON      | OFF     | P63          | Closed | OFF     | ON      |
| Route 3 | CENTRE | P62          | Thrown | ON      | OFF     | P63          | Closed | OFF     | ON      |
| Route 4 | INNER  | P62          | Thrown | ON      | OFF     | P63          | Thrown | ON      | OFF     |
| Route 5 | OUTER  | P62          | Closed | OFF     | ON      | P63          | Closed | OFF     | ON      |
| Route 6 | OUTER  | P62          | Closed | OFF     | ON      | P63          | Closed | OFF     | ON      |

#### Sensors

| 06113013  |          |               |              |               |          |         |
|-----------|----------|---------------|--------------|---------------|----------|---------|
| Module    | Input No | Source Device | Active State | Input Active  | Produced | Inhibit |
|           |          | Number        |              | State         | Event    | SoD.    |
| POSNIND11 | 1        | Outer Logic   | Outer        | LOW           | 231      | 0       |
| POSNIND11 | 2        | Centre Logic  | Centre       | LOW           | 232      | 0       |
| POSNIND11 | 3        | Inner Logic   | Inner        | LOW           | 233      | 0       |
| POSNIND11 | 4        | None          | Dummy 1      | NA            | 271      | 1       |
| POSNIND11 | 5*       | Outer drive   | Outer        | LOW (ON Only) | 64       | 1       |
| POSNIND11 | 6*       | Centre drive  | Centre       | LOW (ON Only) | 65       | 1       |
| POSNIND11 | 7*       | Inner drive   | Inner        | LOW (ON Only) | 66       | 1       |
| POSNIND11 | 8        | None          | Dummy 2      | NA            | 272      | 1       |

<sup>\*</sup> POSIND11 inputs 5, 6 and 7 connected to local push buttons to operate fiddle yard entry/exit.