## OUTPUT PHASE ASSIGNMENT FOR LOADSWITCH AUX S3
### (OVERLAP E)
*(program controller as shown below)*

FROM MAIN MENU PRESS '6' (OUTPUTS), THEN '1' (OUTPUT ASSIGNMENTS). WITH CURSOR IN "OUTPUT ASSIGNMENT #" POSITION, ENTER "45"

DISPLAY WILL NOW SHOW THE SPECIFIED OUTPUT ASSIGNED AS 'VEHICLE OVERLAP' AS SHOWN BELOW.

```
PAGE:1  C1 PIN:91   NOT ENABLED
OUTPUT ASSIGNMENT #................45
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID,1=FLASH).............O
SELECT ASSIGNMENT:
NOT ENABLED.......................Y
VEHICLE PHASE....................._
PEDESTRIAN PHASE.................._
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................_
WATCHDOG.........................._
DETECTOR RESET...................._
ADVANCE BEACON...................._
OUT OF PHASE FLASHER.............._
CONTROLLER FLASH.................._
RUN FREE.........................._
RESERVED.........................._
PREEMPT..........................._
SOFT PREEMPT......................_
ANY PREEMPT......................._
COORDINATION PLAN................._
OFFSET............................_
PHASE CHECK......................._
PHASE ON.........................._
PHASE NEXT........................_
```

LOADSWITCH AUX S3 RED

THE NOT ENABLED ENTRY IS EXISTING BY DEFAULT; ENTER A 'Y' IN THE VEHICLE OVERLAP FIELD.

```
PAGE:1  C1 PIN:91   NOT ENABLED
SELECT VEHICLE OVERLAP (A=1, P=16)...5
SELECT COLOR (O=RED,1=YEL,2=GRN).....O
```

WHEN A 'Y' IS ENTERED FOR 'VEHICLE OVERLAP' THE SCREEN SHOWN ABOVE WILL APPEAR. ENTER DATA AS SHOWN.

PRESS THE 'ENT' KEY AFTER INPUTTING DATA, THEN 'ESC'.

```
PAGE:1  C1 PIN:91   VEHICLE OVERLAP
OUTPUT ASSIGNMENT #................45
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID,1=FLASH).............O
SELECT ASSIGNMENT:
NOT ENABLED......................._
VEHICLE PHASE....................._
PEDESTRIAN PHASE.................._
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................_
WATCHDOG.........................._
DETECTOR RESET...................._
ADVANCE BEACON...................._
OUT OF PHASE FLASHER.............._
CONTROLLER FLASH.................._
RUN FREE.........................._
RESERVED.........................._
PREEMPT..........................._
SOFT PREEMPT......................_
ANY PREEMPT......................._
COORDINATION PLAN................._
OFFSET............................_
PHASE CHECK......................._
PHASE ON.........................._
PHASE NEXT........................_
```

PRESS "+" KEY FOR OUTPUT 46

DISPLAY WILL NOW SHOW THE SPECIFIED OUTPUT ASSIGNED AS 'VEHICLE OVERLAP' AS SHOWN BELOW.

```
PAGE:1  C1 PIN:93   NOT ENABLED
OUTPUT ASSIGNMENT #................46
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID,1=FLASH).............O
SELECT ASSIGNMENT:
NOT ENABLED.......................Y
VEHICLE PHASE....................._
PEDESTRIAN PHASE.................._
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................_
WATCHDOG.........................._
DETECTOR RESET...................._
ADVANCE BEACON...................._
OUT OF PHASE FLASHER.............._
CONTROLLER FLASH.................._
RUN FREE.........................._
RESERVED.........................._
PREEMPT..........................._
SOFT PREEMPT......................_
ANY PREEMPT......................._
COORDINATION PLAN................._
OFFSET............................_
PHASE CHECK......................._
PHASE ON.........................._
PHASE NEXT........................_
```

LOADSWITCH AUX S3 GREEN

THE NOT ENABLED ENTRY IS EXISTING BY DEFAULT; ENTER A 'Y' IN THE VEHICLE OVERLAP FIELD.

```
PAGE:1  C1 PIN:93   NOT ENABLED
SELECT VEHICLE OVERLAP (A=1, P=16)...5
SELECT COLOR (O=RED,1=YEL,2=GRN).....2
```

WHEN A 'Y' IS ENTERED FOR 'VEHICLE OVERLAP' THE SCREEN SHOWN ABOVE WILL APPEAR. ENTER DATA AS SHOWN.

PRESS THE 'ENT' KEY AFTER INPUTTING DATA, THEN 'ESC'.

```
PAGE:1  C1 PIN:93   VEHICLE OVERLAP
OUTPUT ASSIGNMENT #................46
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID,1=FLASH).............O
SELECT ASSIGNMENT:
NOT ENABLED......................._
VEHICLE PHASE....................._
PEDESTRIAN PHASE.................._
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................_
WATCHDOG.........................._
DETECTOR RESET...................._
ADVANCE BEACON...................._
OUT OF PHASE FLASHER.............._
CONTROLLER FLASH.................._
RUN FREE.........................._
RESERVED.........................._
PREEMPT..........................._
SOFT PREEMPT......................_
ANY PREEMPT......................._
COORDINATION PLAN................._
OFFSET............................_
PHASE CHECK......................._
PHASE ON.........................._
PHASE NEXT........................_
```

PRESS "+" KEY TO ADVANCE TO OUTPUT 54

DISPLAY WILL NOW SHOW THE SPECIFIED OUTPUT ASSIGNED AS 'VEHICLE OVERLAP' AS SHOWN BELOW.

```
PAGE:1  C1 PIN:101  CONTROLLER FLASH
OUTPUT ASSIGNMENT #................54
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID,1=FLASH).............O
SELECT ASSIGNMENT:
NOT ENABLED......................._
VEHICLE PHASE....................._
PEDESTRIAN PHASE.................._
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................_
WATCHDOG.........................._
DETECTOR RESET...................._
ADVANCE BEACON...................._
OUT OF PHASE FLASHER.............._
CONTROLLER FLASH..................Y
RUN FREE.........................._
RESERVED.........................._
PREEMPT..........................._
SOFT PREEMPT......................_
ANY PREEMPT......................._
COORDINATION PLAN................._
OFFSET............................_
PHASE CHECK......................._
PHASE ON.........................._
PHASE NEXT........................_
```

LOADSWITCH AUX S3 YELLOW

THE CONTROLLER FLASH ENTRY IS EXISTING BY DEFAULT; ENTER A 'Y' IN THE VEHICLE OVERLAP FIELD.

```
PAGE:1  C1 PIN:101   CONTROLLER FLASH
SELECT VEHICLE OVERLAP (A=1, P=16)...5
SELECT COLOR (O=RED,1=YEL,2=GRN).....1
```

WHEN A 'Y' IS ENTERED FOR 'VEHICLE OVERLAP' THE SCREEN SHOWN ABOVE WILL APPEAR. ENTER DATA AS SHOWN.

PRESS THE 'ENT' KEY AFTER INPUTTING DATA, THEN 'ESC'.

```
PAGE:1  C1 PIN:101  VEHICLE OVERLAP
OUTPUT ASSIGNMENT #................54
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID,1=FLASH).............O
SELECT ASSIGNMENT:
NOT ENABLED......................._
VEHICLE PHASE....................._
PEDESTRIAN PHASE.................._
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................_
WATCHDOG.........................._
DETECTOR RESET...................._
ADVANCE BEACON...................._
OUT OF PHASE FLASHER.............._
CONTROLLER FLASH.................._
RUN FREE.........................._
RESERVED.........................._
PREEMPT..........................._
SOFT PREEMPT......................_
ANY PREEMPT......................._
COORDINATION PLAN................._
OFFSET............................_
PHASE CHECK......................._
PHASE ON.........................._
PHASE NEXT........................_
```

OUTPUT PROGRAMMING FOR LOADSWITCH AUX S3 COMPLETE

## OUTPUT PHASE REASSIGNMENT FOR LOADSWITCH S4
### (REASSIGN AS OVERLAP G)
*(program controller as shown below)*

FROM MAIN MENU PRESS '6' (OUTPUTS), THEN '1' (OUTPUT ASSIGNMENTS). WITH CURSOR IN "OUTPUT ASSIGNMENT #" POSITION, ENTER "6"

DISPLAY WILL NOW SHOW THE SPECIFIED OUTPUT ASSIGNED AS 'VEHICLE OVERLAP' AS SHOWN BELOW.

```
PAGE:1  C1 PIN:7   VEHICLE PHASE
OUTPUT ASSIGNMENT #................6
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID,1=FLASH).............O
SELECT ASSIGNMENT:
NOT ENABLED......................._
VEHICLE PHASE.....................Y
PEDESTRIAN PHASE.................._
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................_
WATCHDOG.........................._
DETECTOR RESET...................._
ADVANCE BEACON...................._
OUT OF PHASE FLASHER.............._
CONTROLLER FLASH.................._
RUN FREE.........................._
RESERVED.........................._
PREEMPT..........................._
SOFT PREEMPT......................_
ANY PREEMPT......................._
COORDINATION PLAN................._
OFFSET............................_
PHASE CHECK......................._
PHASE ON.........................._
PHASE NEXT........................_
```

LOADSWITCH S4 RED

THE VEHICLE PHASE ENTRY IS EXISTING BY DEFAULT; ENTER A 'Y' IN THE VEHICLE OVERLAP FIELD.

```
PAGE:1  C1 PIN:7   VEHICLE PHASE
SELECT VEHICLE OVERLAP (A=1, P=16)...7
SELECT COLOR (O=RED,1=YEL,2=GRN).....O
```

WHEN A 'Y' IS ENTERED FOR 'VEHICLE OVERLAP' THE SCREEN SHOWN ABOVE WILL APPEAR. ENTER DATA AS SHOWN.

PRESS THE 'ENT' KEY AFTER INPUTTING DATA, THEN 'ESC'.

```
PAGE:1  C1 PIN:7   VEHICLE OVERLAP
OUTPUT ASSIGNMENT #................6
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID,1=FLASH).............O
SELECT ASSIGNMENT:
NOT ENABLED......................._
VEHICLE PHASE....................._
PEDESTRIAN PHASE.................._
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................_
WATCHDOG.........................._
DETECTOR RESET...................._
ADVANCE BEACON...................._
OUT OF PHASE FLASHER.............._
CONTROLLER FLASH.................._
RUN FREE.........................._
RESERVED.........................._
PREEMPT..........................._
SOFT PREEMPT......................_
ANY PREEMPT......................._
COORDINATION PLAN................._
OFFSET............................_
PHASE CHECK......................._
PHASE ON.........................._
PHASE NEXT........................_
```

PRESS "+" KEY FOR OUTPUT 7

DISPLAY WILL NOW SHOW THE SPECIFIED OUTPUT ASSIGNED AS 'VEHICLE OVERLAP' AS SHOWN BELOW.

```
PAGE:1  C1 PIN:8   VEHICLE PHASE
OUTPUT ASSIGNMENT #................7
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID,1=FLASH).............O
SELECT ASSIGNMENT:
NOT ENABLED......................._
VEHICLE PHASE.....................Y
PEDESTRIAN PHASE.................._
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................_
WATCHDOG.........................._
DETECTOR RESET...................._
ADVANCE BEACON...................._
OUT OF PHASE FLASHER.............._
CONTROLLER FLASH.................._
RUN FREE.........................._
RESERVED.........................._
PREEMPT..........................._
SOFT PREEMPT......................_
ANY PREEMPT......................._
COORDINATION PLAN................._
OFFSET............................_
PHASE CHECK......................._
PHASE ON.........................._
PHASE NEXT........................_
```

LOADSWITCH S4 YELLOW

THE VEHICLE PHASE ENTRY IS EXISTING BY DEFAULT; ENTER A 'Y' IN THE VEHICLE OVERLAP FIELD.

```
PAGE:1  C1 PIN:8   VEHICLE PHASE
SELECT VEHICLE OVERLAP (A=1, P=16)...7
SELECT COLOR (O=RED,1=YEL,2=GRN).....1
```

WHEN A 'Y' IS ENTERED FOR 'VEHICLE OVERLAP' THE SCREEN SHOWN ABOVE WILL APPEAR. ENTER DATA AS SHOWN.

PRESS THE 'ENT' KEY AFTER INPUTTING DATA, THEN 'ESC'.

```
PAGE:1  C1 PIN:8   VEHICLE OVERLAP
OUTPUT ASSIGNMENT #................7
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID,1=FLASH).............O
SELECT ASSIGNMENT:
NOT ENABLED......................._
VEHICLE PHASE....................._
PEDESTRIAN PHASE.................._
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................_
WATCHDOG.........................._
DETECTOR RESET...................._
ADVANCE BEACON...................._
OUT OF PHASE FLASHER.............._
CONTROLLER FLASH.................._
RUN FREE.........................._
RESERVED.........................._
PREEMPT..........................._
SOFT PREEMPT......................_
ANY PREEMPT......................._
COORDINATION PLAN................._
OFFSET............................_
PHASE CHECK......................._
PHASE ON.........................._
PHASE NEXT........................_
```

PRESS "+" KEY FOR OUTPUT 8

DISPLAY WILL NOW SHOW THE SPECIFIED OUTPUT ASSIGNED AS 'VEHICLE OVERLAP' AS SHOWN BELOW.

```
PAGE:1  C1 PIN:9   VEHICLE PHASE
OUTPUT ASSIGNMENT #................8
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID,1=FLASH).............O
SELECT ASSIGNMENT:
NOT ENABLED......................._
VEHICLE PHASE.....................Y
PEDESTRIAN PHASE.................._
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................_
WATCHDOG.........................._
DETECTOR RESET...................._
ADVANCE BEACON...................._
OUT OF PHASE FLASHER.............._
CONTROLLER FLASH.................._
RUN FREE.........................._
RESERVED.........................._
PREEMPT..........................._
SOFT PREEMPT......................_
ANY PREEMPT......................._
COORDINATION PLAN................._
OFFSET............................_
PHASE CHECK......................._
PHASE ON.........................._
PHASE NEXT........................_
```

LOADSWITCH S4 GREEN

THE VEHICLE PHASE ENTRY IS EXISTING BY DEFAULT; ENTER A 'Y' IN THE VEHICLE OVERLAP FIELD.

```
PAGE:1  C1 PIN:9   VEHICLE PHASE
SELECT VEHICLE OVERLAP (A=1, P=16)...7
SELECT COLOR (O=RED,1=YEL,2=GRN).....2
```

WHEN A 'Y' IS ENTERED FOR 'VEHICLE OVERLAP' THE SCREEN SHOWN ABOVE WILL APPEAR. ENTER DATA AS SHOWN.

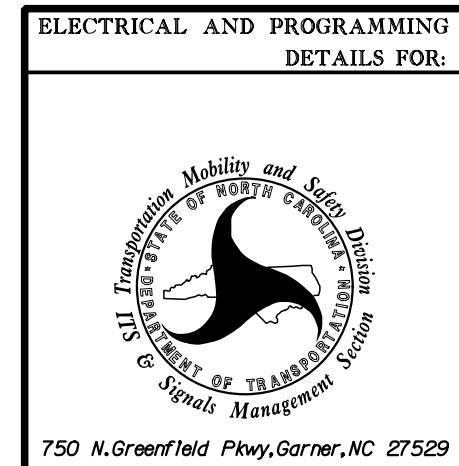PRESS THE 'ENT' KEY AFTER INPUTTING DATA, THEN 'ESC'.

```
PAGE:1  C1 PIN:9   VEHICLE OVERLAP
OUTPUT ASSIGNMENT #................8
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID,1=FLASH).............O
SELECT ASSIGNMENT:
NOT ENABLED......................._
VEHICLE PHASE....................._
PEDESTRIAN PHASE.................._
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................_
WATCHDOG.........................._
DETECTOR RESET...................._
ADVANCE BEACON...................._
OUT OF PHASE FLASHER.............._
CONTROLLER FLASH.................._
RUN FREE.........................._
RESERVED.........................._
PREEMPT..........................._
SOFT PREEMPT......................_
ANY PREEMPT......................._
COORDINATION PLAN................._
OFFSET............................_
PHASE CHECK......................._
PHASE ON.........................._
PHASE NEXT........................_
```

OUTPUT PROGRAMMING FOR LOADSWITCH S4 COMPLETE

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0992
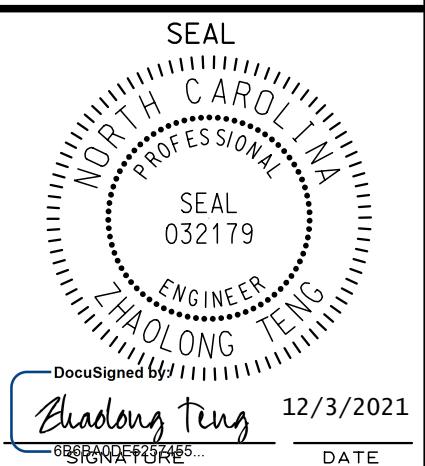DESIGNED: NOVEMBER 2021
SEALED: 12/3/2021
REVISED: N/A

Final Design
Electrical Detail - Sheet 2 of 6

PREPARED IN THE OFFICE OF:

Æ Accelerate Engineering, PLLC
875 Walnut Street, Suite 316
Cary, NC 27511
Tel: 919.263.5678 Fax: 919.263.5687
NC License No. P-1442

ELECTRICAL AND PROGRAMMING DETAILS FOR:

SR 2528 (Julian Rd)
at
I-85/US 601 NB Ramps and
SR 2761 (Truck Ave)

| Division 9 | Rowan County | Salisbury |
|---|---|---|
| PLAN DATE: November 2021 | REVIEWED BY: B. Phillips | |
| PREPARED BY: Z. "Gavin" Teng | REVIEWED BY: | |

750 N.Greenfield Pkwy,Garner,NC 27529

| REVISIONS | INIT. | DATE |
|---|---|---|
|  |  |  |

SEAL
NORTH CAROLINA
SEAL 032179
PROFESSIONAL ENGINEER
ZHAOLONG TENG

DocuSigned by: Zhaolong Teng   12/3/2021
SIGNATURE   DATE

SIG. INVENTORY NO. 09-0992