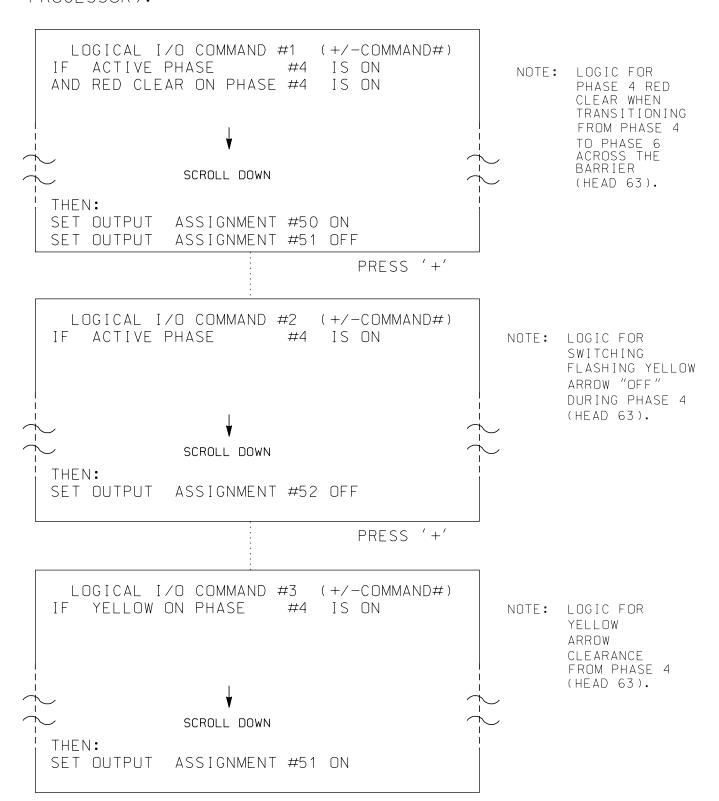| PROJECT REFERENCE NO.	SHEET NO.
17.BP.3.R.28	Sig. 7

LOGICAL I/O PROCESSOR PROGRAMMING DETAIL

TO PRODUCE SPECIAL FYA-PPLT SIGNAL SEQUENCE

(program controller as shown below)

1. FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE ACT LOGIC COMMANDS 1, 2 AND 3.

2. FROM MAIN MENU PRESS '6' (OUTPUTS), THEN '3' (LOGICAL I/O PROCESSOR).

```
LOGICAL I/O COMMAND #1  (+/-COMMAND#)
IF  ACTIVE PHASE      #4  IS ON
AND RED CLEAR ON PHASE #4  IS ON



              SCROLL DOWN

THEN:
SET OUTPUT  ASSIGNMENT #50 ON
SET OUTPUT  ASSIGNMENT #51 OFF
```

NOTE: LOGIC FOR PHASE 4 RED CLEAR WHEN TRANSITIONING FROM PHASE 4 TO PHASE 6 ACROSS THE BARRIER (HEAD 63).

PRESS '+'

```
LOGICAL I/O COMMAND #2  (+/-COMMAND#)
IF  ACTIVE PHASE      #4  IS ON



              SCROLL DOWN

THEN:
SET OUTPUT  ASSIGNMENT #52 OFF
```

NOTE: LOGIC FOR SWITCHING FLASHING YELLOW ARROW "OFF" DURING PHASE 4 (HEAD 63).

PRESS '+'

```
LOGICAL I/O COMMAND #3  (+/-COMMAND#)
IF  YELLOW ON PHASE    #4  IS ON



              SCROLL DOWN

THEN:
SET OUTPUT  ASSIGNMENT #51 ON
```

NOTE: LOGIC FOR YELLOW ARROW CLEARANCE FROM PHASE 4 (HEAD 63).

OUTPUT REFERENCE SCHEDULE

OUTPUT 50 = Overlap A Red
OUTPUT 51 = Overlap A Yellow
OUTPUT 52 = Overlap A Green

OVERLAP PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS '8' (OVERLAPS), THEN '1' (VEHICLE OVERLAP SETTINGS).

```
PAGE 1: VEHICLE OVERLAP 'A' SETTINGS
 PHASE:            1234567891011213141516
VEH OVL PARENTS:     X X
VEH OVL NOT VEH:
VEH OVL NOT PED:
VEH OVL GRN EXT:
STARTUP COLOR: _ RED  _ YELLOW  _ GREEN
FLASH COLORS:  _ RED  _ YELLOW  X GREEN   ◄── NOTICE GREEN FLASH
SELECT VEHICLE OVERLAP OPTIONS:   (Y/N)
FLASH YELLOW IN CONTROLLER FLASH?...Y
GREEN EXTENSION (0-255 SEC).........0
YELLOW CLEAR (0=PARENT,3-25.5 SEC)..0.0
RED CLEAR (0=PARENT,0.1-25.5 SEC)...0.0
OUTPUT AS PHASE # (0=NONE, 1-16)....0
```

OVERLAP PROGRAMMING COMPLETE

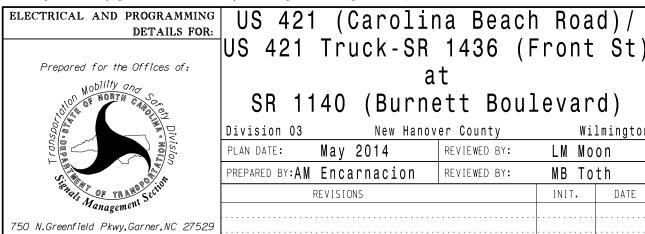## PHASE 4 PROGRAMMING DETAIL

(program controller as shown below)

CHANGING OUTPUT ASSIGNMENTS

1. FROM MAIN MENU SELECT '6' (OUTPUTS), THEN '1' (OUTPUT ASSIGNMENTS)

2. ENTER 14 (PHASE 1 RED) FOR OUTPUT ASSIGNMENT #.

3. SCROLL DOWN TO 'VEHICLE PHASE' AND ENTER 'Y' REGARDLESS OF DEFAULT PROGRAMMING

4. ENTER '4' FOR 'SELECT VEHICLE PHASE'. NO CHANGE NEEDED FOR 'SELECT COLOR'

5. BACKUP TO 'OUTPUT ASSIGNMENTS AND SETTINGS MENU:' BY PRESSING THE 'ESC' BUTTON ON KEYBOARD.

6. SELECT '1' (OUTPUT ASSIGNMENTS)

7. ENTER 15 (PHASE 1 YELLOW) FOR OUTPUT ASSIGNMENT #.

8. REPEAT STEPS # 3 THRU # 6.

9. ENTER 16 (PHASE 1 GREEN) FOR OUTPUT ASSIGNMENT #.

10. REPEAT STEPS # 3 AND # 4.

PROGRAMMING COMPLETE

```
THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 03-0019T2
DESIGNED: May 2014
SEALED: July 21, 2016
REVISED: _____
```

Signal Upgrade - Temporary Design 2 (Electrical Detail Sheet 2 of 2)

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for the Offices of:

Transportation Mobility and Safety
DEPT OF TRANSPORTATION
STATE OF NORTH CAROLINA
Signal Management System
750 N.Greenfield Pkwy,Garner,NC 27529

US 421 (Carolina Beach Road)/
US 421 Truck-SR 1436 (Front St)
at
SR 1140 (Burnett Boulevard)

Division 03	New Hanover County	Wilmington
PLAN DATE: May 2014	REVIEWED BY:	LM Moon
PREPARED BY: AM Encarnacion	REVIEWED BY:	MB Toth

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
025892
ENGINEER
MELISSA B. TOTH

Melissa B. Toth
SIGNATURE   DATE

Melissa B. Toth   10/12/2016

SIG. INVENTORY NO. 03-0019T2

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