PROJECT REFERENCE NO.	SHEET NO.
C-5558	Sig. 112.2

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        #1  IS ON
AND RED CLEAR ON PHASE #1  IS ON

              SCROLL DOWN

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

NOTE: Logic for Phase 1 Red Clear when transitioning from Phase 1 to Phase 2 (Head 11).

PRESS '+'

```
LOGICAL I/O COMMAND #2  (+/-COMMAND#)
IF  ACTIVE PHASE        #1  IS ON

              SCROLL DOWN

THEN:
SET OUTPUT  ASSIGNMENT #52 OFF
```

Note: Logic for switching Flashing Yellow Arrow "OFF" during Phase 1 (Head 11).

PRESS '+'

```
LOGICAL I/O COMMAND #3  (+/-COMMAND#)
IF  YELLOW ON PHASE     #1  IS ON

              SCROLL DOWN

THEN:
SET OUTPUT  ASSIGNMENT #51 ON
```

NOTE: Logic for Yellow Arrow clearance from Phase 1 (Head 11).

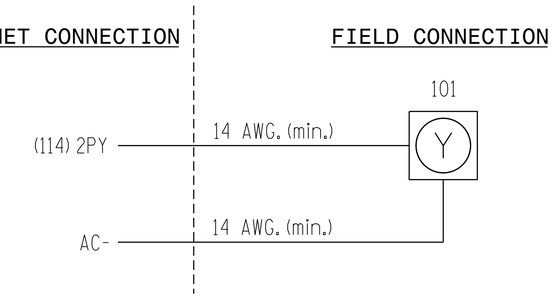
LOGIC I/O PROCESSOR PROGRAMMING COMPLETE

OUTPUT REFERENCE SCHEDULE

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

SPECIAL EVENT FLASHER (101)

(wire flashers as shown below)



SPECIAL EVENT FLASHER SCHEDULING PROGRAMMING DETAIL

(program controller as shown below)

From Main Menu Press 'B' (SCHEDULING)

```
SCHEDULED EVENT #1       NOT ASSIGNED*
START DATE (MM/DD)............**/**
END DATE (MM/DD)..............**/**
START TIME (HH:MM)............**/**
STOP TIME (HH:MM)............**/**
DOW      |SUN MON TUE WED THR FRI SAT
ENABLED  |** **  **  **  **  **  **  **
EVENT GROUPS     |1234567891011121314151 6
ASSIGNED         |

DELETE EVENT WHEN COMPLETED?........N
CONTINUOUS EVENT?...................N
INVERT EVENT?.......................N
SELECT 1 EVENT TYPE:
EVENT GROUP (1-16)..................
PLAN (65=FLSH,66=FREE)..__  OFFSET#..
PLAN PRIORTY:  LOW..__ MED__..  HIGH..
CAHNGE PHASE SEQUENCE PAGE (1-12)...
CHANGE PHASE TIMING PAGE (1-4)......
CHANGE PHASE CONTROL PAGE (1-4).....
CHANGE OVERLAP CONTROL PAGE (1-4)...
CHANGE INPUT PAGE (1-4).............
CHANGE OUTPUT PAGE (1-4)............
SET OUTPUT ON  (1-64)...............33
SET OUTPUT OFF (1-64)...............
SET INPUT ON   (1-64)...............
SET INPUT OFF  (1-64)...............
ENABLE FAILURES LOG?................
ENABLE EVENTS LOG?..................
ENABLE DATA ENTRIES LOG?............
ENABLE COORDINATION PLANS LOG?......
ENABLE SPECIAL FUNCTIONS LOG?.......
ENABLE SLIT MONITOR LOG?............
ENABLE DETECTOR DATA LOG?...........
ENABLE DETECTOR (1-64)..............
ENABLE DETECTOR DIAGNOSTICS (1-64)..
ENABLE DET STRETCH / DELAY (1-64)...
ENABLE DET STOP BAR MODE (1-64).....
SET LOGIC FLAG ON (1-16)............
SET LOGIC FLAG OFF (1-64)...........
OVERIDE PHASE CONTROL FUNCTIONS?....
```

✳ After programming, this space will read 'OUTPUT OVERRIDE'.

/ Times and Dates determined by the DTE.

SPECIAL EVENT FLASHER OUTPUT ASSIGNMENT PROGRAMMING DETAIL

(program controller as shown below)

From Main Menu press '6' (OUTPUTS), then '1' (OUTPUT ASSIGNMENTS). press '+' until output #33 (pin 35) is reached.

```
PAGE:1  C1 PIN:35  NOT ENABLED
OUTPUT ASSIGNMENT #................33
FREQUENCY (0=DEFAULT) (0-25.5 HZ)...1.0
DUTY CYCLE (0=DEFAULT) (0 - 100%)...50
MODE (0=SOLID,1=FLASH).............1
SELECT ASSIGNMENT:
NOT ENABLED........................Y
VEHICLE PHASE......................_
PEDESTRIAN PHASE...................
VEHICLE OVERLAP....................
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.........................
```

Edit the first three programming rows to define the output to flash, along with the rate at which it will flash.

Leave this entry as is

PROGRAMMING COMPLETE

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:          |1234567891011121314151 6
VEH OVL PARENTS:|XX
VEH OVL NOT VEH:|
VEH OVL NOT PED:|
VEH OVL GRN EXT:|
STARTUP COLOR: _ RED  _ YELLOW  _ GREEN
FLASH COLORS:  _ RED  _ YELLOW  X GREEN
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
```

NOTICE GREEN FLASH

PRESS '+' TWICE

```
PAGE 1: VEHICLE OVERLAP 'C' SETTINGS
PHASE:          |1234567891011121314151 6
VEH OVL PARENTS:|     X
VEH OVL NOT VEH:|
VEH OVL NOT PED:|
VEH OVL GRN EXT:|
STARTUP COLOR: _ RED  _ YELLOW  _ GREEN
FLASH COLORS:  _ RED  _ YELLOW  X GREEN
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
```

NOTICE GREEN FLASH

OVERLAP PROGRAMMING COMPLETE

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 07-1425
DESIGNED: May 2014
SEALED: 4/21/15
REVISED: N/A

Electrical Detail - Sheet 2 of 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

NC 68 (Eastchester Dr.) at Gordon Rd./Cypress Ct.

Division 7 | Guilford County | High Point

PLAN DATE:	June 2014	REVIEWED BY:	T. Joyce
PREPARED BY:	B. Simmons	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 022013 ENGINEER GEORGE C. BROWN

DocuSigned by: George C. Brown 5/6/2015
F12601ED0BEB434...
DATE

SIG. INVENTORY NO. 07-1425

06-MAY-2015 09:24
S:\TTSSGLM\TIS Signals\Workgroups\Sig Man\BSimmons\Working Folder\High Point\071425_sm_ela_xxx.dgn
bsimmons