PROJECT REFERENCE NO.	SHEET NO.
SS-4903BR	Sig. 1.10

1 INPUT PAGE 3 ASSIGNMENT PROGRAMMING DETAIL FOR ALTERNATE 2 PHASING - LOOP 7A

(program controller as shown below)

NOTES: 1. THIS PROGRAMMING APPLIES FOR INPUT PAGE 3 ONLY. INPUT PAGE 1 WILL USE STANDARD DEFAULT SETTINGS. THIS PROGRAMMING IS NECESSARY FOR PROPER DETECTOR OPERATION DURING ALTERNATE 2 PHASING OPERATION.

2. THE FIRST TASK THIS PROGRAMMING ACCOMPLISHES IS THE DISABLING OF INPUT #11 (DETECTOR 24) SO THAT A VEHICLE CALL WILL NOT BE PLACED TO PHASE 4 DURING ALTERNATE 2 PHASING OPERATION. THE SECOND TASK THIS PROGRAMMING ACCOMPLISHES IS THAT IT REASSIGNS DETECTOR 57 TO INPUT #19 SO THAT THE DELAY ON LOOP 7A CAN BE REDUCED FROM 15 SECONDS TO 0 SECONDS.

FROM MAIN MENU PRESS '5' (INPUTS), THEN PRESS 'NEXT' TO GET TO INPUT PAGE '3'. PRESS THE '+' KEY UNTIL INPUT 11 IS REACHED.

```
PAGE: 3 C1 PIN:49  VEHICLE DETECTOR
INPUT ASSIGNMENT #.................11
DEBOUNCE TIME (0-25.5 SEC).........0.5
DELAY TIME (0-25.5 SEC)............0.0
HOLD-OVER TIME (0-25.5 SEC)........0.0
ASSIGNMENT SELECTION:
NOT ENABLED (Y/N)..................Y
VEHICLE DETECTOR (1-64)............24
PEDESTRIAN DETECTOR (1-16).........
ALTERNATE PED DETECTOR (1-16)......
PREEMPT (1-10).....................
INVERTED PREEMPT (1-10)............
STOP TIME (Y/N)....................
FLASH SENSE (Y/N)..................
DOOR OPEN (Y/N)....................
MANUAL CONTROL ENABLE (Y/N)........
MANUAL CONTROL ADVANCE (Y/N)       .
SPECIAL FUNCTION ALARM (1-8)       .
TOD HOUR SYCHRONIZATION (0-23)     .
FORCE OFF RING (1-4)              .
HOLD PHASES (1-16)                .
PLAN (65=FLSH,66=FREE)..  OFFSET#..
CHANGE 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)          .
OVERRIDE PHASE CONTROL FUNCTION (Y).
```

ENTER A 'Y' FOR NOT ENABLED

DEFAULT DETECTOR NUMBER WILL REMAIN UNTIL 'NOT ENABLED' IS ENTERED.

(LOOP 7A - PHASE 4)

```
PAGE: 3 C1 PIN:49  NOT ENABLED
INPUT ASSIGNMENT #.................11
DEBOUNCE TIME (0-25.5 SEC).........0.5
DELAY TIME (0-25.5 SEC)............0.0
HOLD-OVER TIME (0-25.5 SEC)........0.0
ASSIGNMENT SELECTION:
NOT ENABLED (Y/N)..................Y
VEHICLE DETECTOR (1-64)............
PEDESTRIAN DETECTOR (1-16)         .
ALTERNATE PED DETECTOR (1-16)      .
PREEMPT (1-10)                     .
INVERTED PREEMPT (1-10)            .
STOP TIME (Y/N)                    .
FLASH SENSE (Y/N)                  .
DOOR OPEN (Y/N)                    .
MANUAL CONTROL ENABLE (Y/N)        .
MANUAL CONTROL ADVANCE (Y/N)       .
SPECIAL FUNCTION ALARM (1-8)       .
TOD HOUR SYCHRONIZATION (0-23)     .
FORCE OFF RING (1-4)              .
HOLD PHASES (1-16)                .
PLAN (65=FLSH,66=FREE)..  OFFSET#..
CHANGE 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)          .
OVERRIDE PHASE CONTROL FUNCTION (Y).
```

PRESS '+' TO ADVANCE TO INPUT 19

```
PAGE: 3 C1 PIN:57  VEHICLE DETECTOR
INPUT ASSIGNMENT #.................19
DEBOUNCE TIME (0-25.5 SEC).........0.5
DELAY TIME (0-25.5 SEC)............0.0
HOLD-OVER TIME (0-25.5 SEC)........0.0
ASSIGNMENT SELECTION:
NOT ENABLED (Y/N)                  .
VEHICLE DETECTOR (1-64)............7
PEDESTRIAN DETECTOR (1-16)         .
ALTERNATE PED DETECTOR (1-16)      .
PREEMPT (1-10)                     .
INVERTED PREEMPT (1-10)            .
STOP TIME (Y/N)                    .
FLASH SENSE (Y/N)                  .
DOOR OPEN (Y/N)                    .
MANUAL CONTROL ENABLE (Y/N)        .
MANUAL CONTROL ADVANCE (Y/N)       .
SPECIAL FUNCTION ALARM (1-8)       .
TOD HOUR SYCHRONIZATION (0-23)     .
FORCE OFF RING (1-4)              .
HOLD PHASES (1-16)                .
PLAN (65=FLSH,66=FREE)..  OFFSET#..
CHANGE 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)          .
OVERRIDE PHASE CONTROL FUNCTION (Y).
```

ENTER '57' TO REASSIGN THE VEHICLE DETECTOR FOR THIS INPUT

(LOOP 7A - PHASE 7)

```
PAGE: 3 C1 PIN:57  VEHICLE DETECTOR
INPUT ASSIGNMENT #.................19
DEBOUNCE TIME (0-25.5 SEC).........0.5
DELAY TIME (0-25.5 SEC)............0.0
HOLD-OVER TIME (0-25.5 SEC)........0.0
ASSIGNMENT SELECTION:
NOT ENABLED (Y/N)                  .
VEHICLE DETECTOR (1-64)............57
PEDESTRIAN DETECTOR (1-16)         .
ALTERNATE PED DETECTOR (1-16)      .
PREEMPT (1-10)                     .
INVERTED PREEMPT (1-10)            .
STOP TIME (Y/N)                    .
FLASH SENSE (Y/N)                  .
DOOR OPEN (Y/N)                    .
MANUAL CONTROL ENABLE (Y/N)        .
MANUAL CONTROL ADVANCE (Y/N)       .
SPECIAL FUNCTION ALARM (1-8)       .
TOD HOUR SYCHRONIZATION (0-23)     .
FORCE OFF RING (1-4)              .
HOLD PHASES (1-16)                .
PLAN (65=FLSH,66=FREE)..  OFFSET#..
CHANGE 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)          .
OVERRIDE PHASE CONTROL FUNCTION (Y).
```

PROGRAMMING COMPLETE

SPECIAL DETECTOR PROGRAMMING DETAIL - LOOP 7A (ALT. 2)

(program controller as shown below)

FROM MAIN MENU PRESS '7' (DETECTORS), THEN PRESS '1' FOR VEHICLE DETECTORS. PRESS THE '-' KEY TO GET TO VEHICLE DETECTOR #57.

```
VEHICLE DETECTOR #57  SETTINGS (+-,1-64)
SETTING:                          (Y/N)
ENABLE DETECTOR....................N
ENABLE LOGGING.....................N
ENABLE DIAGNOSTICS.................N
SPEED TRAP.........................N
CALL DETECTOR......................Y
EXTENSION DETECTOR.................Y
MODE 2 STOP BAR....................N
SWITCHING DETECTOR.................N
DUPLICATING DETECTOR...............N
ENABLE FULL TIME DELAY.............N
IF FAILED, SET MIN RECALL?.........N
IF FAILED, SET MAX1 RECALL?........N
IF FAILED, SET MAX2 RECALL?........N
PHASE#          ¦123456789101112131415 16
PHASES ASSIGNED ¦
SWITCH/DUPLICATE¦
LOOP SIZE (0-255 FT)...............6
SPEED TRAP DISTANCE (0-255 FT)......0
STOP BAR TIME (0-255 SEC)...........0
STRETCH (0-25.5 SEC)................0.0
DELAY (0-255 SEC)...................0
MAX CALLS/MIN (0-255)..............255
MIN CALLS/DIAGNOSTIC PERIOD (0-255).0
MAX OCCUPANCY (0-100%).............100
EXTENSION DISABLE TIME (0-255 SEC)..0
QUEUE MAX OCCUPANCY TIME (0-255)....0
QUEUE GAP RESET TIME (0-25.5)......0.0
PREEMPTION INDEX FOR QUEUE (0-10)...0
```

ENTER 'Y' FOR ENABLE DETECTOR

ENTER '7' FOR PHASES ASSIGNED

ENSURE DELAY IS '0'

```
VEHICLE DETECTOR #57  SETTINGS (+-,1-64)
SETTING:                          (Y/N)
ENABLE DETECTOR....................Y
ENABLE LOGGING.....................N
ENABLE DIAGNOSTICS.................N
SPEED TRAP.........................N
CALL DETECTOR......................Y
EXTENSION DETECTOR.................Y
MODE 2 STOP BAR....................N
SWITCHING DETECTOR.................N
DUPLICATING DETECTOR...............N
ENABLE FULL TIME DELAY.............N
IF FAILED, SET MIN RECALL?.........N
IF FAILED, SET MAX1 RECALL?........N
IF FAILED, SET MAX2 RECALL?........N
PHASE#          ¦123456789101112131415 16
PHASES ASSIGNED ¦      X
SWITCH/DUPLICATE¦
LOOP SIZE (0-255 FT)...............6
SPEED TRAP DISTANCE (0-255 FT)......0
STOP BAR TIME (0-255 SEC)...........0
STRETCH (0-25.5 SEC)................0.0
DELAY (0-255 SEC)...................0
MAX CALLS/MIN (0-255)..............255
MIN CALLS/DIAGNOSTIC PERIOD (0-255).0
MAX OCCUPANCY (0-100%).............100
EXTENSION DISABLE TIME (0-255 SEC)..0
QUEUE MAX OCCUPANCY TIME (0-255)....0
QUEUE GAP RESET TIME (0-25.5)......0.0
PREEMPTION INDEX FOR QUEUE (0-10)...0
```

DETECTOR PROGRAMMING COMPLETE

NOTE: DETECTOR IS PROGRAMMED PER THE INPUT FILE CONNECTION AND PROGRAMMING CHART SHOWN ON SHEET 1.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 03-0389
DESIGNED: May 2017
SEALED: 5-03-2017
REVISED: N/A

Electrical Detail - Sheet 9 of 10

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISION SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER A. MATTHEW THIGPEN

2017.05.03 11:04:12 -04'00'

SIGNATURE DATE

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:

Traffic Engineering and Safety Systems Branch
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signals Management Section

750 N. Greenfield Pkwy, Garner, NC 27529

NC 179-904/NC 179 (Beach Drive) at NC 904 (Causeway Drive) / SR 1184 (Ocean Isle Beach Road)

Division 3 | Brunswick County | Ocean Isle Beach

PLAN DATE:	October 2008	REVIEWED BY:	T. Joyce
PREPARED BY:	S. Armstrong	REVIEWED BY:	

REVISIONS	INIT.	DATE
1 Added Alternate 1 and Alternate 2 phasing operations. (JP)	KMM	3-21-16
2 New wood poles for temporary signal	AMT	3-13-17

SEAL

Not a certified document as to the Original Document but Only as to the Revisions - This document originally issued and sealed by George C. Brown, PE #022013, on 10-20-08.. This document is only certified as to the revisions.

SIGNATURE DATE

SIG. INVENTORY NO. 03-0389

03-MAY-2017 10:48
\\mpwcfs01\Projects\58286.04 NCDOT SS-4903BR\NCDOT\Traffic\Signals\Design\Signals\NCDOT Signals\03389_sm_ele_20160321.dgn
mthigpen
AT 27343