OVERLAP PROGRAMMING DETAIL

1. From Main Menu select [4 - UNIT DATA]
2. From UNIT DATA Submenu select [3 - OVERLAP DATA]

Use Up/Dn/Left/Right keys to position cursor on the desired Overlap. Use the NEXT key to select the overlap type. Press the ENT key and then program as per the Overlap screen(s) shown.

```
OVERLAP DATA

  A: FYA   E: ---   I: ---   M: ---
  B: ---   F: ---   J: ---   N: ---
  C: FYA   G: ---   K: ---   O: ---
  D: ---   H: ---   L: ---   P: ---

 PREV/NEXT TO CYCLE
```

OVERLAP A

Use Up/Dn/Left/Right keys to position cursor on Overlap 'A', use the NEXT key to select 'FYA', then press ENT

```
FYA OVERLAP - A          DELAY/10:   0
       PHASES..12345678 90123456
  PERM PHASES: 01000000 00000000
  PROT PHASES: 10000000 00000000
  -PED PHASES: 00000000 00000000
     OVERLAPS..ABCDEFGH IJKLMNOP
PERM OVERLAPS: x0000000 00000000
PROT OVERLAPS: x0000000 00000000
```

← NOTICE DELAY/10 = 0

Press ESC

OVERLAP C

Use Up/Dn/Left/Right keys to position cursor on Overlap 'C', use the NEXT key to select 'FYA', then press ENT

```
FYA OVERLAP - C          DELAY/10:   0
       PHASES..12345678 90123456
  PERM PHASES: 00000100 00000000
  PROT PHASES: 00001000 00000000
  -PED PHASES: 00000000 00000000
     OVERLAPS..ABCDEFGH IJKLMNOP
PERM OVERLAPS: 00x00000 00000000
PROT OVERLAPS: 00x00000 00000000
```

← NOTICE DELAY/10 = 0

END OVERLAP PROGRAMMING

PED DETECTOR ASSIGNMENT PROGRAMMING TO ASSIGN PHASE 3 TO PED DETECTOR 8

1. From Main Menu select [3 - PHASE DATA]
2. From PHASE DATA Submenu select [7 - DETECTOR DATA]
3. From DETECTOR DATA Submenu select [9-PED 1-8]
4. From DETECTOR CONFIG DATA Submenu select [8-PEDESTRIAN DET 8+]

ASSIGN PHASE 3 TO DETECTOR 8

```
PED DET 8     PHASE 12345678 90123456
 ASSIGNED PHASES....00100000 00000000
 SWITCH PHASES......00000000 00000000
   MODE   1    CALL  1    EXT/10   0
   VOLUME 0    PASS  0    DLY/10   0
   OCCUPY 0    ADDED 0    FAIL   255
   LOCK   0    QUEUE 0    QLIMIT   0
                                   [1]
```

PED DETECTOR PROGRAMMING COMPLETE

ACCESSIBLE PEDESTRIAN SIGNAL (APS) INSTALLATION NOTES

1. Install push buttons and APS equipment per manufacturer's instructions.
2. Provide a dedicated cable to each push button per manufacturer's instructions.
3. If APS equipment is mounted in cabinet, use filtered power (i.e., Controller Receptacle) to power APS equipment. Do not use Equipment Receptacle, which is a GFCI outlet.
4. Never attempt to operate a standard contact closure push button with the APS system unless cabinet is re-wired for standard button operation or unless explicitly allowed by the manufacturer.
5. Place manufacturer's instructions in cabinet with cabinet prints, signal plans, and electrical details.
6. An APS push button station that is designed to work without the need for interfacing with a pedestrian signal head shall be installed for applications where a push button is installed in a median without a pedestrian signal head.
7. A push button with a single tactile arrow that points in both directions of travel shall be installed if the median separates two parallel crosswalks.

LOAD SWITCH MAPPING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS 4 (UNIT DATA)

```
UNIT DATA
 1-STARTUP & MISC.    6-SEQUENCES
 2-REMOTE FLASH       7-PORT 1/ITS DATA
 3-OVERLAP DATA       8-I/O MISC
 4-PEER-TO-PEER       9-OUTPUT MAPPING
 5-RING STRUCTURE     B-BANK SELECTION
                      C-COPY BANK
'+' DENOTES BANKABLE UNIT DATA      [1]
```

SELECT 9 - OUTPUT MAPPING

```
OUTPUT MAPPING            EDIT MODE: LDSW
                            E-TOGGLE MODE
LDSW ..7.. ..8.. ..9.. .10.. .11.. .12..
RED  PH5   PH6   PD6   PH7   PH8   PD3
YEL   -     -     -     -     -     -
GRN   -     -     -     -     -     -
FIO   7     8     9    10    11    12
PREV/NEXT TO CYCLE      D-DISPLAY COMPAT
```

USE ENTER AND NEXT KEYS TO MAP 'LDSW 12' AS 'PD3'

LOAD SWITCH MAPPING COMPLETE

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

This Electrical Detail supersedes the detail sealed on 10-18-22

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 05-1902
DESIGNED: February 2024
SEALED: 02-27-24
REVISED: N/A

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:

Traffic Engineering, Mobility and Safety Division
Traffic Control & Signals Management Section
DEPARTMENT OF TRANSPORTATION

750 N.Greenfield Pkwy,Garner,NC 27529

US 401 (Louisburg Road)
at
Calvary Drive and
State Employee's Credit Union

Division 5 | Wake County | Raleigh

PLAN DATE: February 2024 | REVIEWED BY:
PREPARED BY: James Peterson | REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 036833 ENGINEER RYAN W. HOUGH

DocuSigned by: Ryan W. Hough 02/29/2024
43D32DFEA2654C3... DATE

SIG. INVENTORY NO. 05-1902

28-FEB-2024 07:25
R:\Traffic Control\ITS Signals\Workgroups\Sig Mon\Peterson\051902_sm_ele_20221018.dgn
JIPeterson