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PROJECT REFERENCE NO.	SHEET NO.
R-5816	Sig.1.12

VEHICLE DETECTOR SWITCHING PROGRAMMING DETAILS

(program controller as shown below)

1. FROM MAIN MENU PRESS '7' (DETECTORS), THEN '1' (VEHICLE DETECTOR ASSIGNMENTS).
2. USING (+ -) SCROLL UP OR DOWN UNTIL THE DESIRED VEHICLE DETECTOR # IS FOUND.
3. ENABLE THE 'SWITCHING DETECTOR' FEATURE AS SHOWN BELOW AND ACTIVATE THE ASSIGNED PHASE AND THE SWITCHING PHASE AS INDICATED UNDER 'PHASE #'.

LOOP `(4A&4B)' :

```
VEHICLE DETECTOR #4  SETTINGS (+ -,1-64)

SETTING:                          (Y/N)
ENABLE DETECTOR.....................Y
ENABLE LOGGING......................Y
ENABLE DIAGNOSTICS..................Y
SPEED TRAP..........................N
CALL DETECTOR.......................Y
EXTENSION DETECTOR..................Y
MODE 2 STOP BAR.....................N
SWITCHING DETECTOR..................Y
DUPLICATING DETECTOR................N
ENABLE FULL TIME DELAY..............N
IF FAILED, SET MIN RECALL?..........Y
IF FAILED, SET MAX1 RECALL?.........N
IF FAILED, SET MAX2 RECALL?.........N
PHASE#            |123456789101112131415 16
PHASES ASSIGNED   |        X
SWITCH/DUPLICATE  |   X
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/MINUTE (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
PREEMPTION INDEX FOR QUEUE (0-10)...0
```

VEHICLE DETECTOR SWITCHING PROGRAMMING DETAILS

(program controller as shown below)

1. FROM MAIN MENU PRESS '7' (DETECTORS), THEN '1' (VEHICLE DETECTOR ASSIGNMENTS).
2. USING (+ -) SCROLL UP OR DOWN UNTIL THE DESIRED VEHICLE DETECTOR # IS FOUND.
3. ENABLE THE 'SWITCHING DETECTOR' FEATURE AS SHOWN BELOW AND ACTIVATE THE ASSIGNED PHASE AND THE SWITCHING PHASE AS INDICATED UNDER 'PHASE #'.

LOOP `(4C)' :

```
VEHICLE DETECTOR #14 SETTINGS (+ -,1-64)

SETTING:                          (Y/N)
ENABLE DETECTOR.....................Y
ENABLE LOGGING......................Y
ENABLE DIAGNOSTICS..................Y
SPEED TRAP..........................N
CALL DETECTOR.......................Y
EXTENSION DETECTOR..................Y
MODE 2 STOP BAR.....................N
SWITCHING DETECTOR..................Y
DUPLICATING DETECTOR................N
ENABLE FULL TIME DELAY..............N
IF FAILED, SET MIN RECALL?..........Y
IF FAILED, SET MAX1 RECALL?.........N
IF FAILED, SET MAX2 RECALL?.........N
PHASE#            |123456789101112131415 16
PHASES ASSIGNED   |        X
SWITCH/DUPLICATE  |   X
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)...................15
MAX CALLS/MINUTE (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
PREEMPTION INDEX FOR QUEUE (0-10)...0
```

VEHICLE DETECTOR SWITCHING PROGRAMMING DETAILS

(program controller as shown below)

1. FROM MAIN MENU PRESS '7' (DETECTORS), THEN '1' (VEHICLE DETECTOR ASSIGNMENTS).
2. USING (+ -) SCROLL UP OR DOWN UNTIL THE DESIRED VEHICLE DETECTOR # IS FOUND.
3. ENABLE THE 'SWITCHING DETECTOR' FEATURE AS SHOWN BELOW AND ACTIVATE THE ASSIGNED PHASE AND THE SWITCHING PHASE AS INDICATED UNDER 'PHASE #'.

LOOP `(4D)' :

```
VEHICLE DETECTOR #34 SETTINGS (+ -,1-64)

SETTING:                          (Y/N)
ENABLE DETECTOR.....................Y
ENABLE LOGGING......................Y
ENABLE DIAGNOSTICS..................Y
SPEED TRAP..........................N
CALL DETECTOR.......................Y
EXTENSION DETECTOR..................Y
MODE 2 STOP BAR.....................N
SWITCHING DETECTOR..................Y
DUPLICATING DETECTOR................N
ENABLE FULL TIME DELAY..............N
IF FAILED, SET MIN RECALL?..........Y
IF FAILED, SET MAX1 RECALL?.........N
IF FAILED, SET MAX2 RECALL?.........N
PHASE#            |123456789101112131415 16
PHASES ASSIGNED   |        X
SWITCH/DUPLICATE  |   X
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)...................15
MAX CALLS/MINUTE (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
PREEMPTION INDEX FOR QUEUE (0-10)...0
```

--NOTE--

THE PROGRAMMING SHOWN ABOVE IS NECESSARY IN ORDER FOR LOOPS `4A,4B,4C AND 4D' TO CALL PHASE 4 ONLY DURING 4 PED AND TO CALL PHASE 9 AT ALL OTHER TIMES.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 02-0256
DESIGNED: July 2022
SEALED: 7/26/2022
REVISED: N/A

VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606
919.829.0328

This plan supersedes the plan signed and sealed on 02/26/2019.

ELECTRICAL DETAIL SHEET 4 OF 4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for the Offices of:

Traffic Engineering, Mobility and Safety Division
Intelligent Transportation Systems & Signals Management Section
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

750 N.Greenfield Pkwy,Garner,NC 27529

NC 58 (Fort Macon Road)
at
SR 1182 (Atlantic Beach Cswy)

Division 2 | Carteret County | Atlantic Beach

PLAN DATE:	July 2022	REVIEWED BY:	J.L. Lewis
PREPARED BY:	M.L. Stygles	REVIEWED BY:	J. Ma

REVISIONS	INIT.	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 033108 ENGINEER JIANXIN MA

DocuSigned by: Jianxin Ma 82FE3B0814AE...

7/26/2022

SIGNATURE | DATE

SIG. INVENTORY NO. 02-0256

7/26/2022
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