PROJECT REFERENCE NO.	SHEET NO.
U-4405	SIG-81.3

ECONOLITE ASC/3-2070 VEHICLE DETECTOR SETUP

PROGRAMMING DETAIL FOR ALTERNATE PHASING LOOP 5A

(program controller as shown)

IMPORTANT!

Program detectors per the input file connection and
programming chart shown on sheet 1 before proceeding.

1. From Main Menu select   8. UTILITIES

2. From UTILITIES Submenu select   1. COPY/CLEAR

3. Copy from DETECTOR PLAN "1" to DETECTOR PLAN "2".

```
COPY / CLEAR UTILITY
          FROM                TO
PHASE TIMING.... > PHASE TIMING.... .
TIMING PLAN..... . > TIMING PLAN..... .
PH DET OPT PLAN. . > PH DET OPT PLAN. .
DETECTOR PLAN... 1 > DETECTOR PLAN... 2
    TOGGLE TO SELECT A "FROM" AND A "TO"
          THEN PRESS ENTER
```

4. From Main Menu select   6. DETECTORS

5. From DETECTOR Submenu select   2. VEHICLE DETECTOR SETUP

6. Place cursor in VEH DET PLAN [ ] position and enter "2".

 – Place cursor in VEH DETECTOR [ ] position and enter "5".
 – Set delay time to "0".

```
VEH DETECTOR [ 5 ]   VEH DET PLAN [ 2 ]      ←  NOTICE VEH
TYPE: S-STANDARD                                DET PLAN 2
TS2 DETECTOR..... . ECPI LOG.......    NO
DET PH – 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
   5  5   . . . . . . . . . . . . . . . .
EXTEND TIME... 0.0 DELAY TIME...    0.0  ←  ENSURE DELAY
USE ADDED INITIAL . CROSS SWITCH PH.. 0      IS SET TO '0'
LOCK IN....... NONE NTCIP VOL . OR OCC .
PMT QUEUE DELAY. NO
```

 – Place cursor in VEH DETECTOR [ ] position and enter "22".
 – Set assigned phase to "0".

```
VEH DETECTOR [22]   VEH DET PLAN [ 2 ]      ←  NOTICE VEH
TYPE: S-STANDARD                                DET PLAN 2
TS2 DETECTOR..... . ECPI LOG.......    NO
DET PH – 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
   22 0    . . . . . . . . . . . . . . . .
ENSURE PHASE →  EXTEND TIME... 0.0 DELAY TIME...    0.0
IS SET TO "0"   USE ADDED INITIAL . CROSS SWITCH PH.. 0
                LOCK IN....... NONE NTCIP VOL . OR OCC .
                PMT QUEUE DELAY. NO
```

END PROGRAMMING

ALTERNATE PHASING ACTIVATION DETAIL

TO RUN ALT. PHASING DURING FREE RUN – PROGRAM CHANGES (SHOWN BELOW) IN A TIME BASED ACTION PLAN.
SCHEDULE A DAY PLAN THAT INCLUDES THE ACTION PLAN PROGRAMMED
TO SELECT VEH DET PLAN 2 AND ENABLE SF BIT 5.

TO RUN ALT. PHASING DURING COORDINATION – SELECT THE TIME BASED ACTION PLAN THAT IS PROGRAMMED
TO SELECT VEH DET PLAN 2 AND ENABLE SF BIT 5.

PHASING	VEH DET PLAN	SF BITS ENABLED
ACTIONS REQUIRED TO RUN DEFAULT PHASING	1	NONE
ACTIONS REQUIRED TO RUN ALTERNATE PHASING	2	5

IMPORTANT: IF ALT. PHASING IS USED DURING FREE RUN AND COORDINATION, DO NOT OPERATE TIME OF DAY
EVENTS CONCURRENTLY WITH COORDINATION PLAN EVENTS IN THE EVENT SCHEDULER. (EX. FREE
RUN EVENT SHOULD END BEFORE COORDINATION PLAN EVENT STARTS AND VICE–VERSA).

ALTERNATE PHASING CHANGE SUMMARY

THE FOLLOWING IS A SUMMARY OF WHAT TAKES PLACE WHEN
SF BIT 5 AND VEH DET PLAN 2 ACTIVATE TO CALL THE
"ALTERNATE PHASING":

SF BIT 5:   Modifies overlap parent phases
                   for head 51 to run protected
                   turns only.

VEH DET PLAN 2:   Disables phase 2 call on loop 5A
                   and reduces delay time for phase 5
                   call on loop 5A to 0 seconds.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 06-0002
DESIGNED: March 2018
SEALED: 03-29-2018
REVISED: N/A

Final Design
Electrical Detail - Sheet 3 of 3

Stantec

Stantec Consulting Services Inc.
801 Jones Franklin Road-Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

ELECTRICAL AND PROGRAMMING
DETAILS FOR:

Prepared In the Offices of:

750 N.Greenfield Pkwy,Garner,NC 27529

US 401 Bus./SR 1414 (Raeford Road)
at
US 401 Bus. (Robeson Street)
/McPhee Drive

Division 6	Cumberland County		Fayetteville
PLAN DATE:	March 2018	REVIEWED BY:	L Overn
PREPARED BY:	G B Spell	REVIEWED BY:	
REVISIONS		INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
045933
LAWRENCE E. OVERN II
ENGINEER

3/29/2018

SIG. INVENTORY NO.   06-0002