ECONOLITE ASC/3-2070 OVERLAP PROGRAMMING DETAIL

(program controller as shown)

1. From Main Menu select `2. CONTROLLER`

2. From CONTROLLER Submenu select `2. VEHICLE OVERLAPS`

OVERLAP A

Select TMG VEH OVLP [A] and 'OTHER/ECONOLITE'

```
TMG VEH OVLP...[A] TYPE:OTHER/ECONOLITE
   PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
INCLUDED . X . . . . . . . . . . . . . . .
PROTECT  . . . . . . . . . . . . . . . . .
PED PRTC . . . . . . . . . . . . . . . . .
NOT OVLP . . . . . . . . . . . . . . . . .
FLSH GRN . 1 . . . . . . . . . . . . . . .
LAG X PH . . . . . . . . . . . . . . . . .
LAG 2 PH . . . . . . . . . . . . . . . . .

LAG GRN 0.0 YEL 0.0 RED 0.0 ADV GRN 0.0
```

Toggle Twice

OVERLAP C

Select TMG VEH OVLP [C] and 'PPLT FYA'

```
TMG VEH OVLP...[C] TYPE: ....PPLT FYA

PROTECTED LEFT TURN....   PHASE   5
OPPOSING THROUGH.......   PHASE   6

FLASHING ARROW OUTPUT.....CH11 ISOLATE

DELAY START OF: FYA..0.0 CLEARANCE..0.0
ACTION PLAN SF BIT DISABLE...........5
```
← NOTICE SF BIT DISABLE 5

END PROGRAMMING

ECONOLITE ASC/3-2070 ACTION PLAN PROGRAMMING DETAIL

1. From Main Menu select `5. TIME BASE`

2. From TIME BASE Submenu select `2. ACTION PLAN`

```
ACTION PLAN...[ 1]
PATTERN.........AUTO   SYS OVERRIDE.... NO
TIMING PLAN........ 0   SEQUENCE........ 0
VEH DETECTOR PLAN.. 2   DET LOG.......NONE
FLASH..........  --     RED REST....... NO
VEH DET DIAG PLN.. 0   PED DET DIAG PLN..0
DIMMING ENABLE..  NO   PRIORITY RETURN. NO
PED PR RETURN..   NO   QUEUE DELAY..... NO
PMT COND DELAY    NO
   PHASE  1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
PED RCL    . . . . . . . . . . . . . . . .
WALK 2     . . . . . . . . . . . . . . . .
VEX 2      . . . . . . . . . . . . . . . .
VEH RCL    . . . . . . . . . . . . . . . .
MAX RCL    . . . . . . . . . . . . . . . .
MAX 2      . . . . . . . . . . . . . . . .
   PHASE  1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
MAX 3      . . . . . . . . . . . . . . . .
CS INH     . . . . . . . . . . . . . . . .
OMIT       . . . . . . . . . . . . . . . .
SPC FCT    . . . . . X . . . (1-8)
AUX FCT    . . . . (1-3)
           1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
LP 1-15    . . . . . . . . . . . . . . .
LP 16-30   . . . . . . . . . . . . . . .
LP 31-45   . . . . . . . . . . . . . . .
LP 46-60   . . . . . . . . . . . . . . .
LP 61-75   . . . . . . . . . . . . . . .
LP 76-90   . . . . . . . . . . . . . . .
LP 91-100  . . . . . . . . . . . . . . .
```

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 "3.0".

```
VEH DETECTOR [ 5]   VEH DET PLAN [ 2]
TYPE: S-STANDARD
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...   3.0
USE ADDED INITIAL . CROSS SWITCH PH.. O
LOCK IN....... NONE NTCIP VOL . OR OCC .
PMT QUEUE DELAY. NO
```
← NOTICE VEH DET PLAN 2
← ENSURE DELAY IS SET TO '3.0'

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

```
VEH DETECTOR [22]   VEH DET PLAN [ 2]
TYPE: S-STANDARD
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   . . . . . . . . . . . . . . .
EXTEND TIME... 0.0 DELAY TIME...    0.0
USE ADDED INITIAL . CROSS SWITCH PH.. O
LOCK IN....... NONE NTCIP VOL . OR OCC .
PMT QUEUE DELAY. NO
```
← NOTICE VEH DET PLAN 2
ENSURE PHASE IS SET TO "0" →

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 3 seconds.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0002T2
DESIGNED: March 2018
SEALED: 03-29-2018
REVISED: N/A

Temporary Design 2 - TMP Phase II
Electrical Detail - Sheet 2 of 2

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ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared In the Offices of:
NC Transportation Mobility and Safety Division
ITS & Signal Management Section
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	

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NORTH CAROLINA
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ENGINEER
LAWRENCE E. OVERN II
3/29/2018

SIG. INVENTORY NO. 06-0002T2