PROJECT REFERENCE NO.	SHEET NO.
U-4405	SIG-68.5

ECONOLITE ASC/3-2070 LOGIC PROCESSOR
PROGRAMMING DETAIL

(program controller as shown)

1. From Main Menu select 1. CONFIGURATION

2. From CONFIGURATION Submenu select 8. LOGIC PROCESSOR

3. From LOGIC PROCESSOR Submenu select 2. LOGIC STATEMENTS

ENTER A "1" IN THE LP# FIELD. PRESS 'ENTER', AND
PROGRAM AS SHOWN.

```
LP#:  1  COPY FROM:  1  ACTIVE:  M
IF    DET            52  IS ON

THEN  LP SET LOGIC FLAG    1       ON

ELSE
```

IF RR1 PREEMPT
(REMAPPED AS DET 52)
INPUT IS ACTIVE.
SET LOGIC FLAG 1 ON.

ENTER A "2" IN THE LP# FIELD. PRESS 'ENTER', AND
PROGRAM AS SHOWN.

```
LP#:  2  COPY FROM:  2  ACTIVE:  M
IF    LP FLAG         1  IS ON

THEN  PMT CALL PMT SEQ    2       ON

ELSE
```

IF LOGIC FLAG 1 IS ON.
THEN INITIATE PREEMPT 2
SEQUENCE. THE PREEMPT
MAY OR MAY NOT ACTUALLY
BE SERVED DEPENDING ON
THE STATE OF THE OTHER
RR PREEMPT INPUT.

ENTER A "3" IN THE LP# FIELD. PRESS 'ENTER', AND
PROGRAM AS SHOWN.

```
LP#:  3  COPY FROM:  3  ACTIVE:  M
IF    DET            54  IS ON

THEN  LP SET LOGIC FLAG    2       ON

ELSE
```

IF RR2 PREEMPT
(REMAPPED AS DET 54)
INPUT IS ACTIVE.
SET LOGIC FLAG 2 ON.

ENTER A "4" IN THE LP# FIELD. PRESS 'ENTER', AND
PROGRAM AS SHOWN.

```
LP#:  4  COPY FROM:  4  ACTIVE:  M
IF    LP FLAG         2  IS ON

THEN  PMT CALL PMT SEQ    4       ON

ELSE
```

IF LOGIC FLAG 2 IS ON.
THEN INITIATE PREEMPT 4
SEQUENCE. THE PREEMPT
MAY OR MAY NOT ACTUALLY
BE SERVED DEPENDING ON
THE STATE OF THE OTHER
RR PREEMPT INPUT.

ENTER A "5" IN THE LP# FIELD. PRESS 'ENTER', AND
PROGRAM AS SHOWN.

```
LP#:  5  COPY FROM:  5  ACTIVE:  M
IF    DET            52  IS  OFF
AND   DET            54  IS  OFF

THEN  LP SET LOGIC FLAG    1       OFF
THEN  LP SET LOGIC FLAG    2       OFF

ELSE
```

WHEN BOTH PREEMPT INPUTS GO INACTIVE.
THIS LOGIC RESETS THE LOGIC FLAG
THAT IS HOLDING THE ACTIVE PREEMPT
ACTIVE, AND RESETS THE OTHER LOGIC
FLAG TO PREVENT IT FROM CALLING
THE OTHER PREEMPT.

END PROGRAMMING

---

1. From Main Menu select 1. CONFIGURATION

2. From CONFIGURATION Submenu select 8. LOGIC PROCESSOR

3. From LOGIC PROCESSOR Submenu select 1. LOGIC STATEMENT CONTROL

ENABLE LOGIC PROCESSOR STATEMENTS 1-5 BY POSITIONING
THE CURSOR OVER THE FIELDS SHOWN BELOW AND USING
THE TOGGLE KEY TO ENABLE THEM.

```
LOGIC STATEMENT CONTROL
          1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
LP 1-15   E E E E E . . . . . . . . . .
LP 16-30  . . . . . . . . . . . . . . .
LP 31-45  . . . . . . . . . . . . . . .
LP 46-60  . . . . . . . . . . . . . . .
LP 61-75  . . . . . . . . . . . . . . .
LP 76-90  . . . . . . . . . . . . . . .
```

END PROGRAMMING

ECONOLITE ASC/3-2070 I/O PIN REMAPPING
FOR RR1 AND RR2 PREEMPT INPUTS

The ASC/3 Configurator utility program must be used to remap
the I/O pins as shown below. Consult the ASC/3 Configurator
User Guide for specific instructions on software use.

1. Run the Configurator utility. Load a file as the Current DB.

2. Choose the C1-in tab to change the I/O
mapping as needed. Use the drop down list within the program
to select the assigned function for the pins shown below.

3. Save the database file and download it to the controller.

```
C1      DEFAULT
PIN #   FUNCTION          ASSIGNED FUNCTION
```

PIN 51-PREEMPT 1 CALL ──→ DETECTOR 52 ▼

PIN 52-PREEMPT 2 CALL ──→ DETECTOR 54 ▼

NOTE: PREEMPT INPUTS
REMAPPED
AS DETECTORS

NOTE: The steps below can be used to view changes to I/O pins within
the controller. Any I/O pins that have been remapped will
display and show their default function in addition to the
current assigned function.

1. From Main Menu select 7. STATUS DISPLAY

2. From STATUS DISPLAY Submenu select 8. INPUTS/OUTPUTS

3. From INPUT/OUTPUT Submenu select 9. I/O DIFFERENCES

ECONOLITE ASC/3-2070 VEHICLE DETECTOR SETUP
PROGRAMMING DETAIL FOR REMAPPED DETECTORS

(program controller as shown)

The preempt inputs remapped as detectors that are to be used
by the logic processor are assigned to a dummy phase 9 as
shown in the detector setup programming below.

1. From Main Menu select 6. DETECTORS

2. From DETECTOR Submenu select 2. VEHICLE DETECTOR SETUP

– Place cursor in VEH DETECTOR [ ] position and enter "52".

DISABLE TS2 DETECTOR ➡

ASSIGN PHASE 9 ➡

```
VEH DETECTOR [52]   VEH DET PLAN [ 1]
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
52  9    . . . . . . . . . . . . . . .
EXTEND TIME...  0.0 DELAY TIME...    0.0
USE ADDED INITIAL . CROSS SWITCH PH..  0
LOCK IN....... NONE NTCIP VOL . OR OCC .
PMT QUEUE DELAY. NO
```

– Place cursor in VEH DETECTOR [ ] position and enter "54".

DISABLE TS2 DETECTOR ➡

ASSIGN PHASE 9 ➡

```
VEH DETECTOR [54]   VEH DET PLAN [ 1]
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
54  9    . . . . . . . . . . . . . . .
EXTEND TIME...  0.0 DELAY TIME...    0.0
USE ADDED INITIAL . CROSS SWITCH PH..  0
LOCK IN....... NONE NTCIP VOL . OR OCC .
PMT QUEUE DELAY. NO
```

END PROGRAMMING

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 06-0054T3
DESIGNED: March 2018
SEALED: 03-29-2018
REVISED: N/A

Temporary Design 3 - TMP Phase III
Electrical Detail - Sheet 5 of 5

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

ELECTRICAL AND PROGRAMMING
DETAILS FOR:

Prepared In the Offices of:

750 N.Greenfield Pkwy,Garner,NC 27529

US 401 Business (Raeford Road)
at
McPherson Church Road/
Owen Drive

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

REVISIONS	INIT.	DATE

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
045933
ENGINEER
LAWRENCE E. OVERN II

3/29/2018

SIG. INVENTORY NO. 06-0054T3