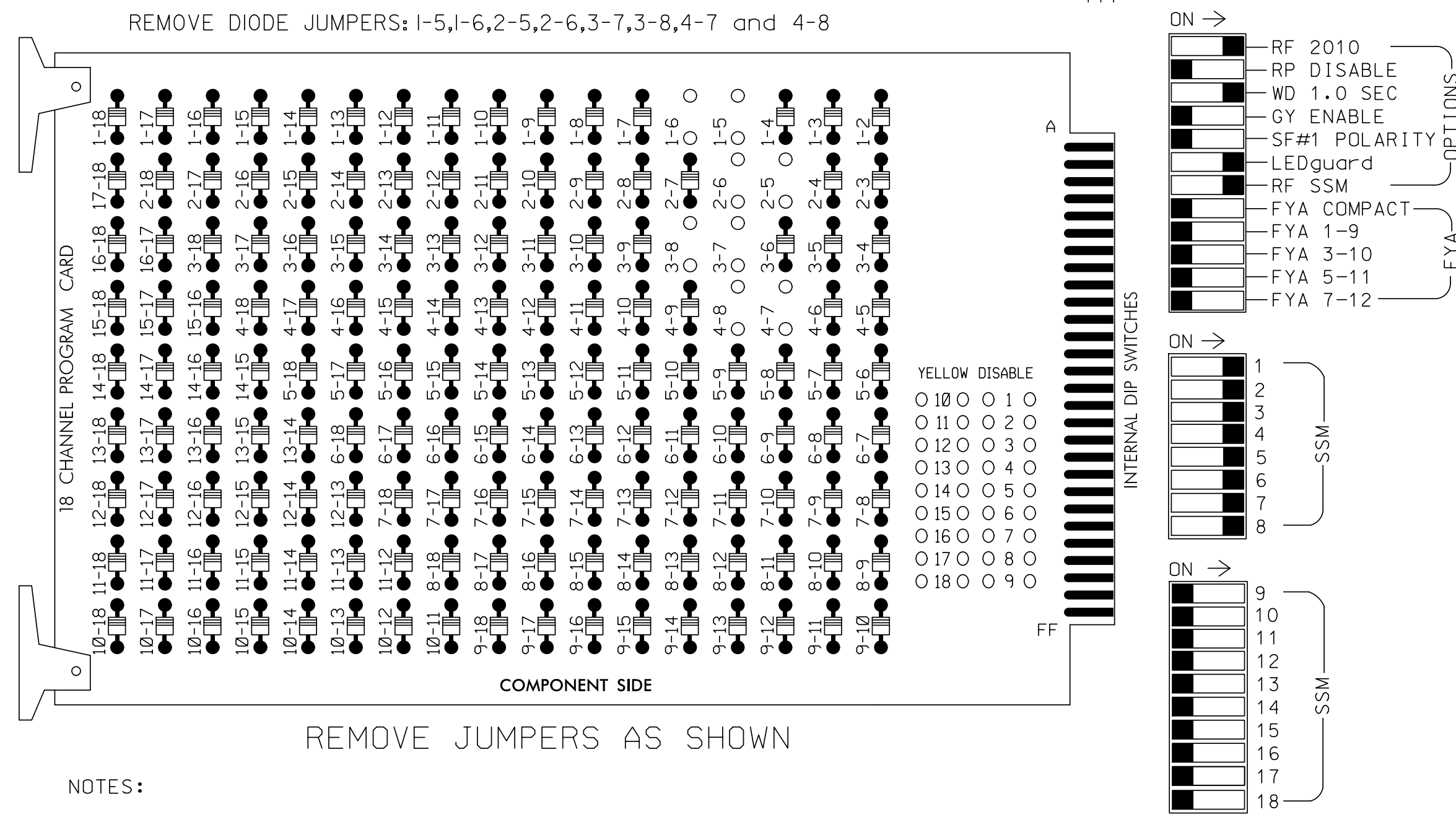


EDI MODEL 2018EClip-NC CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

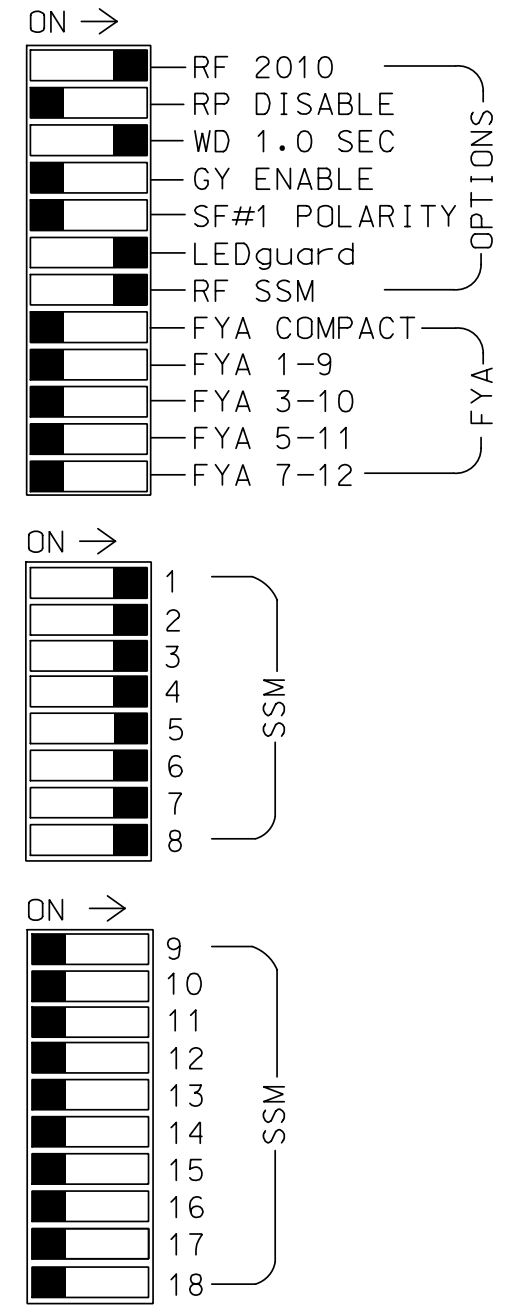
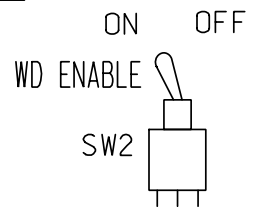


REMOVE DIODE JUMPERS: 1-5, 1-6, 2-5, 2-6, 3-7, 3-8, 4-7 and 4-8

REMOVE JUMPERS AS SHOWN

NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that Red Enable is active at all times during normal operation.



■ = DENOTES POSITION OF SWITCH

NOTES

1. To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
2. Enable Simultaneous Gap-Out for all phases.
3. Program phases 2 and 6 for volume density operation.
4. Program controller to start up in phase 2 Green and 6 Green.
5. The cabinet and controller are part of the Fayetteville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332
 SOFTWARE.....ECONOLITE ASC/3-2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S1,S2,S4,S5,S7,S8,S10,S11
 PHASES USED.....1,2,3,4,5,6,7,8
 OVERLAPS.....NONE

SIGNAL HEAD HOOK-UP CHART

| LOAD SWITCH NO. | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S9 | S10 | S11 | S12 | | | | |
|-----------------|-------|-----|----------|-----|-----|----------|-------|-----|-------|-------|----------|-------|-----|----------|-------|-----|
| CMU CHANNEL NO. | 1 | 2 | 13 | 3 | 4 | 14 | 5 | 6 | 15 | 7 | 8 | 16 | | | | |
| PHASE | 1 | 2 | 2 PED | 3 | 4 | 4 PED | 5 | 6 | 6 PED | 7 | 8 | 8 PED | | | | |
| SIGNAL HEAD NO. | 11,12 | 82 | 21,22,23 | NU | 23 | 31,32,33 | 41,42 | NU | 42 | 51,52 | 61,62,63 | NU | 63 | 71,72,73 | 81,82 | NU |
| RED | | 128 | | | 101 | | | 134 | | | | 107 | | | | |
| YELLOW | | 129 | | | | 102 | | | 135 | | | | | | 108 | |
| GREEN | | | 130 | | | | 103 | | | 136 | | | | | | 109 |
| RED ARROW | 125 | | | | 116 | | | 131 | | | | 122 | | | | |
| YELLOW ARROW | 126 | 126 | | 117 | 117 | | | 132 | 132 | | | 123 | 123 | | | |
| GREEN ARROW | 127 | 127 | | 118 | 118 | | | 133 | 133 | | | 124 | 124 | | | |

NU = Not Used

INPUT FILE POSITION LAYOUT

(front view)

| FILE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------|----------|-----|--------|----------|----------|--------|-------|----------|---------------|----|----|----|----|----------------|
| "I" | ∅ 1 | ∅ 1 | ∅2/SYS | ∅2/SYS | ∅ 3 | ∅ 3 | ∅ 4 | ∅ 4 | SYS. DET. S4A | | | | | FS |
| | 1A | 1B | 2A/S2A | 2C/S2C | 3A | 3B | 4A,4B | 4D | SYS. DET. S4A | | | | | DC ISOLATOR ST |
| "J" | NOT USED | ∅ 1 | ∅2/SYS | NOT USED | NOT USED | ∅2/SYS | ∅ 4 | NOT USED | SYS. DET. S4B | | | | | DC ISOLATOR |
| | | 1C | 2B/S2B | | | 2D/S2D | 4C | | | | | | | |

EX.: 1A, 2A, ETC. = LOOP NO.'S

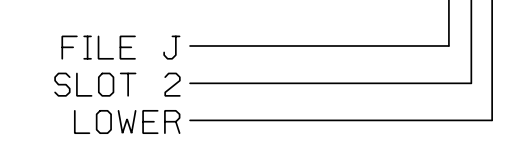
FS = FLASH SENSE
 ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

| LOOP NO. | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | DETECTOR NO. | NEMA PHASE | CALL | EXTEND TIME | DELAY TIME | DETECTOR TYPE |
|----------|---------------|-----------------|---------|--------------|------------|------|-------------|------------|---------------|
| 1A | TB2-1,2 | I1U | 56 | 1 | 1 | YES | | | S |
| 1B | TB2-5,6 | I2U | 39 | 2 | 1 | YES | | | S |
| 1C | TB2-7,8 | I2L | 43 | 12 | 1 | YES | | 20 | S |
| 2A/S2A | TB2-9,10 | I3U | 63 | 32 | 2 | YES | | | N |
| 2B/S2B | TB2-11,12 | I3L | 76 | 42 | 2 | YES | | | N |
| 2C/S2C | TB4-1,2 | I4U | 47 | 22 | 2 | YES | | | N |
| 2D/S2D | TB4-11,12 | I6L | 45 | 14 | 2 | YES | | | N |
| 3A | TB4-5,6 | I5U | 58 | 3 | 3 | YES | | | S |
| 3B | TB4-9,10 | I6U | 41 | 4 | 3 | YES | | | S |
| 4A, 4B | TB6-1,2 | I7U | 65 | 34 | 4 | NO | 2.5 | | N |
| 4C | TB6-3,4 | I7L | 78 | 44 | 4 | YES | | | S |
| 4D | TB6-5,6 | I8U | 49 | 24 | 4 | YES | | | S |
| *S4A | TB6-9,10 | I9U | 60 | 11 | SYS | NO | | | N |
| *S4B | TB6-11,12 | I9L | 62 | 13 | SYS | NO | | | N |
| 5A | TB3-1,2 | J1U | 55 | 5 | 5 | YES | | | S |
| 5B | TB3-5,6 | J2U | 40 | 6 | 5 | YES | | | S |
| 5C | TB3-7,8 | J2L | 44 | 16 | 5 | YES | | 20 | S |
| 6A/S6A | TB3-9,10 | J3U | 64 | 36 | 6 | YES | | | N |
| 6B/S6B | TB3-11,12 | J3L | 77 | 46 | 6 | YES | | | N |
| 6C/S6C | TB5-1,2 | J4U | 48 | 26 | 6 | YES | | | N |
| 7A | TB5-5,6 | J5U | 57 | 7 | 7 | YES | | | S |
| 7B | TB5-9,10 | J6U | 42 | 8 | 7 | YES | | | S |
| 8A, 8B | TB7-1,2 | J7U | 66 | 38 | 8 | NO | 2.5 | | N |
| 8C | TB7-3,4 | J7L | 79 | 48 | 8 | YES | | | S |
| 8D | TB7-5,6 | J8U | 50 | 28 | 8 | YES | | | S |
| *S8A | TB7-9,10 | J9U | 59 | 15 | SYS | NO | | | N |
| *S8B | TB7-11,12 | J9L | 61 | 17 | SYS | NO | | | N |

* System detector only. Remove any assigned vehicle phase.

INPUT FILE POSITION LEGEND: J2L



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0094
 DESIGNED: October 2015
 SEALED: 5/31/2016
 REVISED:

Electrical Detail

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared For: **US 401 Bypass (Skibo Road) at SR 1400 (Cliffdale Road)**

Division 6 Cumberland County Fayetteville

PLAN DATE: June 2016 REVIEWED BY: KP Baumann

PREPARED BY: SP Pennington REVIEWED BY: SL Phillips

REVISIONS INIT. DATE

7/13/2016 K:\RAL_TPTOK-SIGNALS\011036345 Fayetteville - Signal - Design\1 - Submit\Final 6-17-16\381_06-0094_2016e.dgn Susan Pennington

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SEAL NORTH CAROLINA PROFESSIONAL ENGINEER STACIE L. PHILLIPS 032607

DocuSign 7/14/2016 067A59ED068437 DATE

SIG. INVENTORY NO. 06-0094