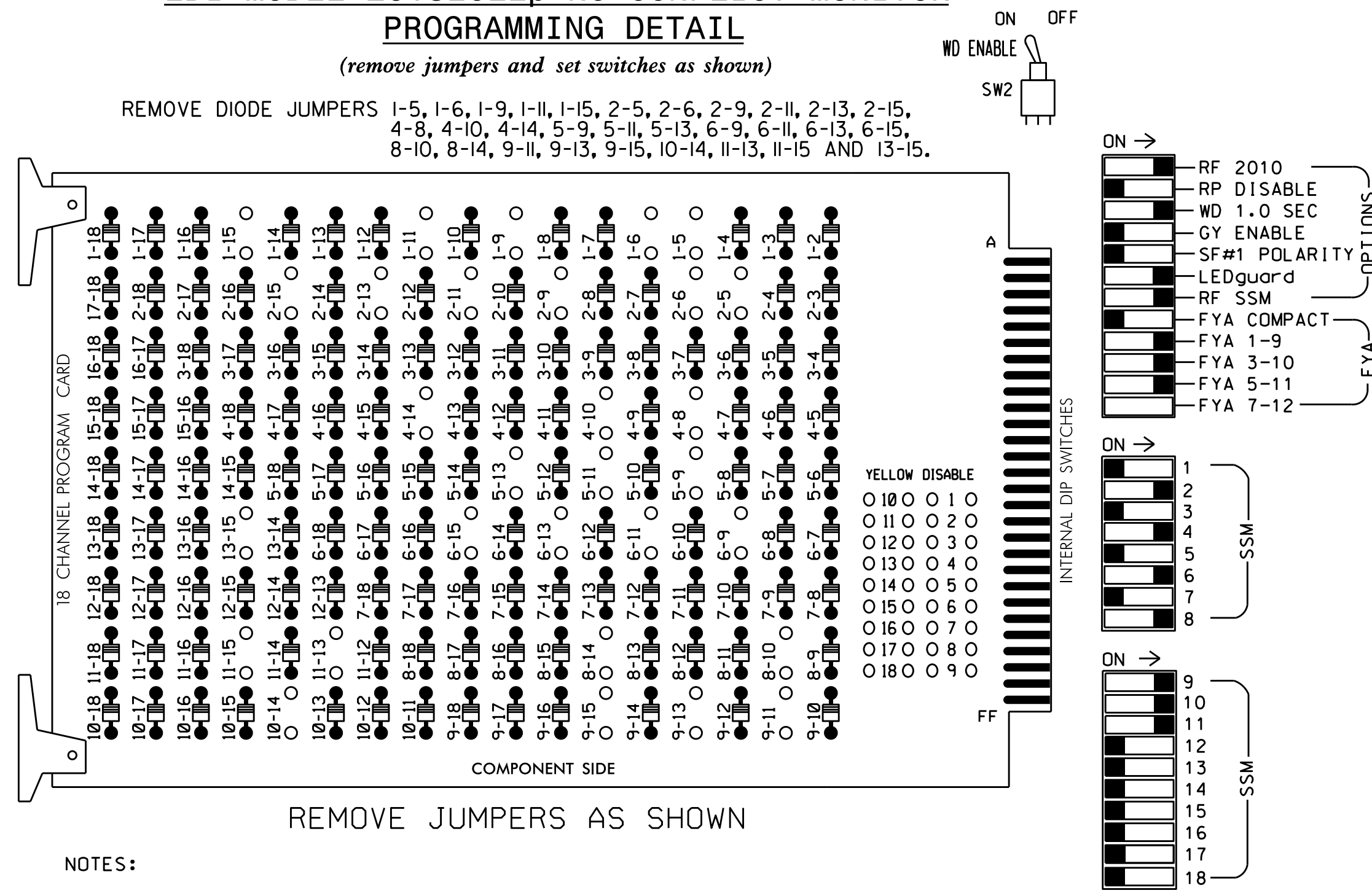


EDI MODEL 2018EClip-NC CONFLICT MONITOR PROGRAMMING DETAIL



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.
4. Integrate monitor with Ethernet network in cabinet.

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. Program phases 4 and 8 for Dual Entry.
3. Enable Simultaneous Gap-Out for all phases.
4. Program phases 2 and 6 for Variable Initial and Gap Reduction.
5. Program phases 2 and 6 for Start Up In Green.
6. Program phases 2, 4 and 6 for 'STARTUP PED CALL'.
7. Program phases 2 and 6 for Yellow Flash, and overlaps 1 and 2 as Wag Overlaps.
8. The cabinet and controller are part of the Asheville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S3,S5,S6,S7,S8,S9,S11,AUX S1,
 AUX S2, AUX S4
 PHASES USED.....1,2,2 PED,4,4 PED,5,6,6 PED,8
 OVERLAP "A".....1+2
 OVERLAP "B".....4
 OVERLAP "C".....5+6
 OVERLAP "D".....NOT USED

SIGNAL HEAD HOOK-UP CHART

| LOAD SWITCH NO. | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S9 | S10 | S11 | S12 | AUX S1 | AUX S2 | AUX S3 | AUX S4 | AUX S5 | AUX S6 |
|-----------------------|-----|-------|----------|----|-------|----------|----|-------|----------|-----|-------|-------|--------|--------|--------|--------|--------|--------|
| CMU CHANNEL NO. | 1 | 2 | 13 | 3 | 4 | 14 | 5 | 6 | 15 | 7 | 8 | 16 | 9 | 10 | 17 | 11 | 12 | 18 |
| PHASE | 1 | 2 | 2 PED | 3 | 4 | 4 PED | 5 | 6 | 6 PED | 7 | 8 | 8 PED | OLA | OLB | SPARE | OLC | OLD | SPARE |
| SIGNAL HEAD NO. | 11 | 21,22 | P21, P22 | NU | 41,42 | P41, P42 | 51 | 61,62 | P61, P62 | NU | 82,83 | NU | 11 | 81 | NU | 51 | NU | NU |
| RED | | 128 | | | 101 | | | 134 | | | 107 | | | | | | | |
| YELLOW | * | 129 | | | 102 | | * | 135 | | | 108 | | | | | | | |
| GREEN | | 130 | | | 103 | | | 136 | | | 109 | | | | | | | |
| RED ARROW | | | | | | | | | | | | | A121 | A124 | | A114 | | |
| YELLOW ARROW | | | | | | | | | | | | | A122 | A125 | | A115 | | |
| FLASHING YELLOW ARROW | | | | | | | | | | | | | A123 | A126 | | A116 | | |
| GREEN ARROW | 127 | | | | | | | 133 | | | | | | | | | | |
| Hand | | | 113 | | | 104 | | 119 | | | | | | | | | | |
| Walking | | | 115 | | | 106 | | 121 | | | | | | | | | | |

NU = Not Used

* Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail below.

INPUT FILE POSITION LAYOUT

| FILE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------|----------|---------|-----|----------|-----|------|------|------|------|------|------|------|------|------|
| U | ∅ 1 | ∅ 2/SYS | ∅ 3 | ∅ 4 | ∅ 5 | ∅ 6 | ∅ 7 | ∅ 8 | ∅ 9 | ∅ 10 | ∅ 11 | ∅ 12 | ∅ 13 | ∅ 14 |
| I | 1A | 2A/S1 | ∅ 3 | 4A | ∅ 5 | ∅ 6 | ∅ 7 | ∅ 8 | ∅ 9 | ∅ 10 | ∅ 11 | ∅ 12 | ∅ 13 | ∅ 14 |
| L | NOT USED | 2B/S2 | ∅ 3 | NOT USED | ∅ 5 | ∅ 6 | ∅ 7 | ∅ 8 | ∅ 9 | ∅ 10 | ∅ 11 | ∅ 12 | ∅ 13 | ∅ 14 |
| U | ∅ 5 | ∅ 6 | ∅ 7 | ∅ 8 | ∅ 9 | ∅ 10 | ∅ 11 | ∅ 12 | ∅ 13 | ∅ 14 | ∅ 15 | ∅ 16 | ∅ 17 | ∅ 18 |
| I | 5A | 6A | ∅ 7 | 8A | ∅ 9 | ∅ 10 | ∅ 11 | ∅ 12 | ∅ 13 | ∅ 14 | ∅ 15 | ∅ 16 | ∅ 17 | ∅ 18 |
| L | NOT USED | 6B | ∅ 7 | 8B | ∅ 9 | ∅ 10 | ∅ 11 | ∅ 12 | ∅ 13 | ∅ 14 | ∅ 15 | ∅ 16 | ∅ 17 | ∅ 18 |

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

FS = FLASH SENSE
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

INPUT FILE CONNECTION & PROGRAMMING CHART

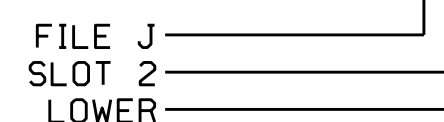
| LOOP NO. | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | INPUT ASSIGNMENT NO. | DETECTOR NO. | NEMA PHASE | CALL | EXTEND | FULL TIME DELAY | STRETCH TIME | DELAY TIME |
|------------------|---------------|-----------------|---------|----------------------|--------------|------------|------|--------|-----------------|--------------|------------|
| 1A ¹ | TB2-1,2 | I1U | 56 | 18 | 1 | 1 | Y | Y | | | 15 |
| | - | J4U | 48 | 10 | 26 | 6 | Y | Y | Y | | 3 |
| | 2A/S1 | TB2-5,6 | I2U | 39 | 1 | 2/SYS | Y | Y | | | |
| | 2B/S2 | TB2-7,8 | I2L | 43 | 5 | 2/SYS | Y | Y | | | |
| 4A | TB4-9,10 | I6U | 41 | 3 | 4 | 4 | Y | Y | | | 5 |
| | - | I4U | 47 | 9 | 22 | 2 | Y | Y | Y | | 3 |
| 5A ² | TB3-1,2 | J1U | 55 | 17 | 5 | 5 | Y | Y | | | 15 |
| | - | I4U | 47 | 9 | 22 | 2 | Y | Y | Y | | 3 |
| 6A | TB3-5,6 | J2U | 40 | 2 | 6 | 6 | Y | Y | | | |
| 6B | TB3-7,8 | J2L | 44 | 6 | 16 | 6 | Y | Y | | | |
| 8A | TB5-9,10 | J6U | 42 | 4 | 8 | 8 | Y | Y | | | 3 |
| 8B | TB5-11,12 | J6L | 46 | 8 | 18 | 8 | Y | Y | | | |
| PED PUSH BUTTONS | | | | | | | | | | | |
| P21,P22 | TB8-4,6 | I12U | 67 | 29 | PED 2 | 2 PED | | | | | |
| P41,P42 | TB8-5,6 | I12L | 69 | 31 | PED 4 | 4 PED | | | | | |
| P61,P62 | TB8-7,9 | I13U | 68 | 30 | PED 6 | 6 PED | | | | | |

NOTE:
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

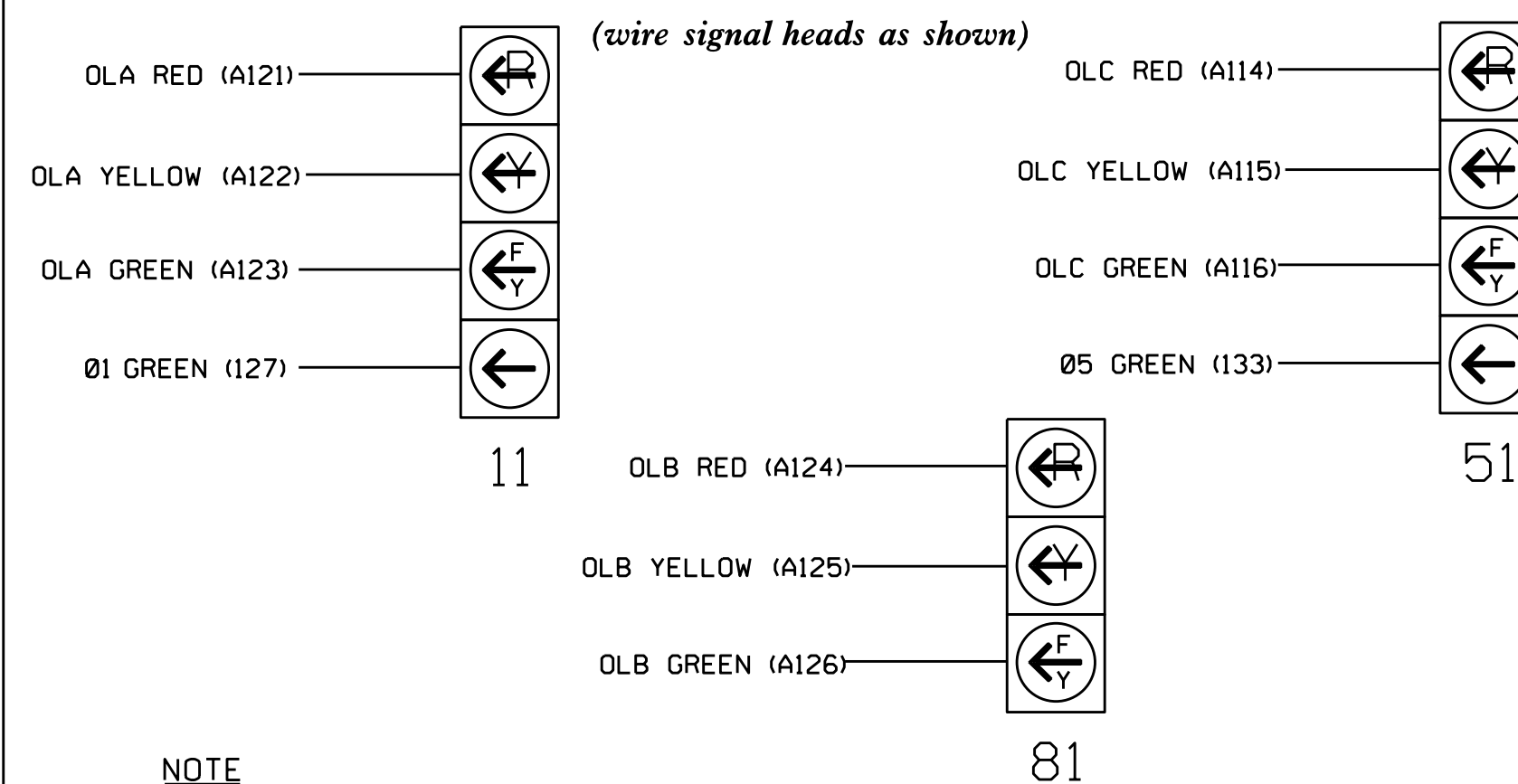
¹Add jumper from I1-W to J4-W, on rear of input file.

²Add jumper from J1-W to I4-W, on rear of input file.

INPUT FILE POSITION LEGEND: J2L



FYA SIGNAL WIRING DETAIL



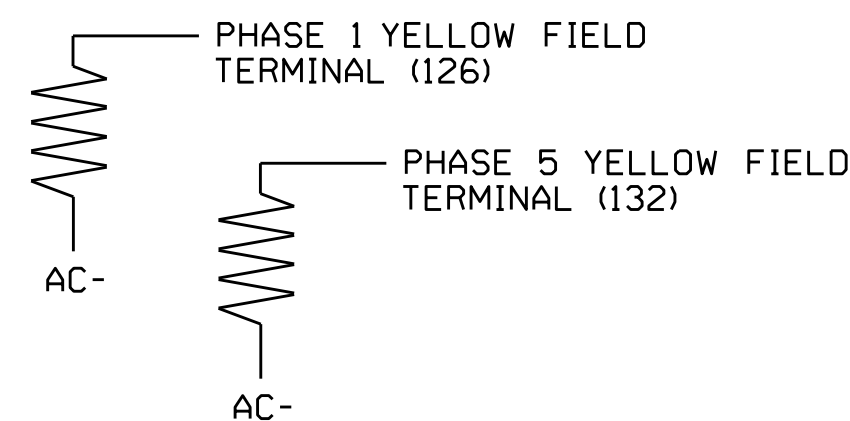
NOTE

1. The sequence display for signal heads 11 and 51 require special logic programming. See sheet 2 of 2 for programming instructions.

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)

| VALUE (ohms) | WATTAGE |
|--------------|-----------|
| 1.5K - 1.9K | 25W (min) |
| 2.0K - 3.0K | 10W (min) |



COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

Prepared In the Offices of:
 Transportation Mobility and Safety
 Signal Management System

NC 280 (Airport Road) at Airport Park Road/Airport Entrance

Division 13 Buncombe County Fletcher

PLAN DATE: October 2016 REVIEWED BY: BAS

PREPARED BY: A. F. Aslami REVIEWED BY:

REVISIONS INIT. DATE

750 N. Greenfield Pkwy, Garner, NC 27529

Seal of North Carolina Professional Engineer Gary M. Little

DocuSign by: Gary M. Little 11/8/2016

SIG. INVENTORY NO. 13-1118

07-1004-2016 11-14
 S:\MIS\SSU\15_Sigmod\work\hgr\oups\51g_Mop\Aslami\131118_sml_e_l_xxx.dgn
 gms:aml1