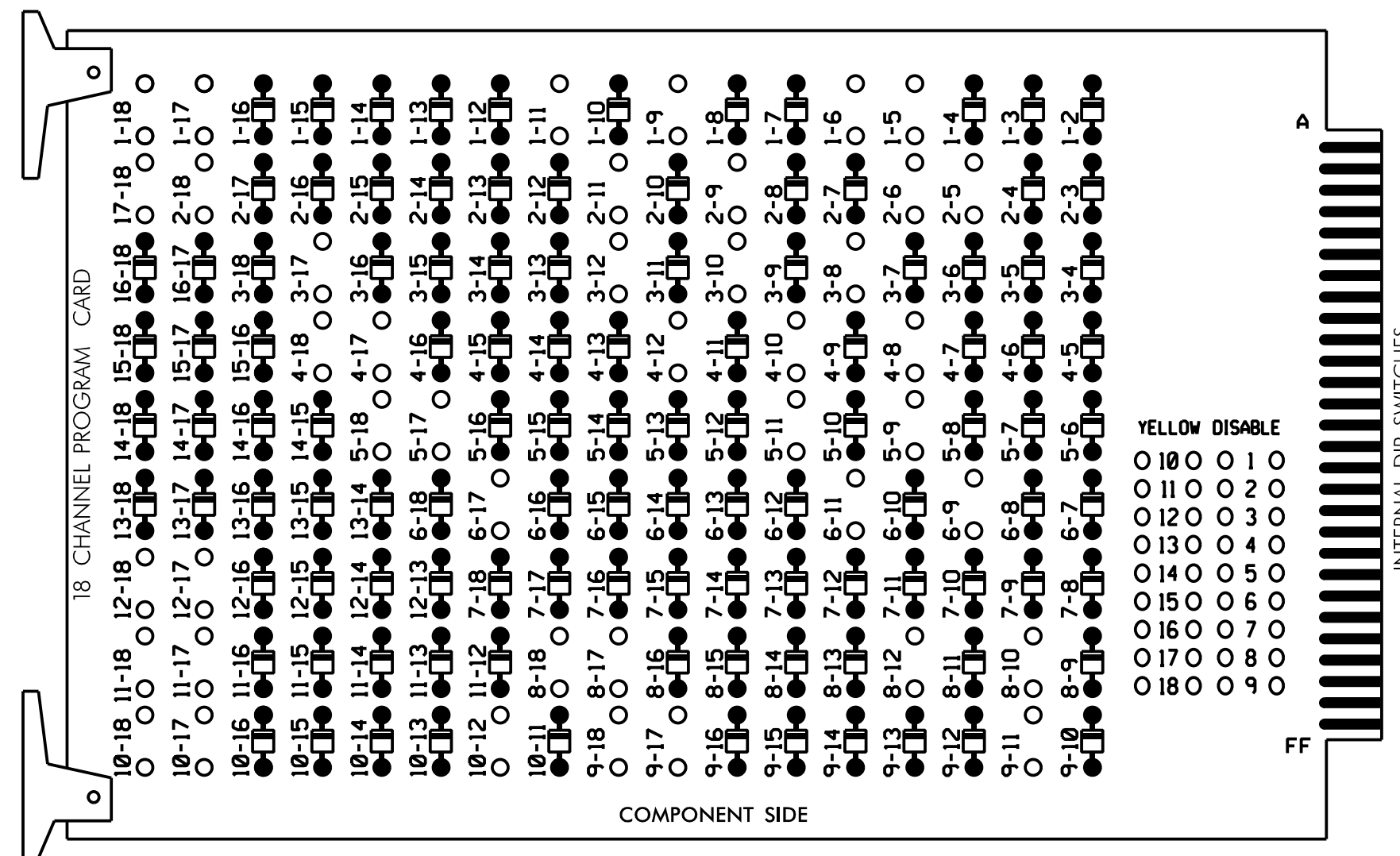


EDI MODEL 2018EClip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-17, 1-18, 2-5, 2-6, 2-9, 2-11, 2-18, 3-8, 3-10, 3-12, 3-17, 4-8, 4-10, 4-12, 4-17, 4-18, 5-9, 5-11, 5-17, 5-18, 6-9, 6-11, 6-17, 8-10, 8-12, 8-17, 8-18, 9-11, 9-17, 9-18, 10-12, 10-17, 10-18, 11-17, 11-18, 12-17, 12-18, and 17-18.



REMOVE JUMPERS AS SHOWN

NOTES:

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

NOTES

- 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.
- Program phase 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all Phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Startup In Green.
- Program phases 2 and 6 for Yellow Flash, and overlaps 1, 2, and 5 as Wag Overlaps.
- The cabinet and controller are part of the Wilmington Signal System.

EQUIPMENT INFORMATION

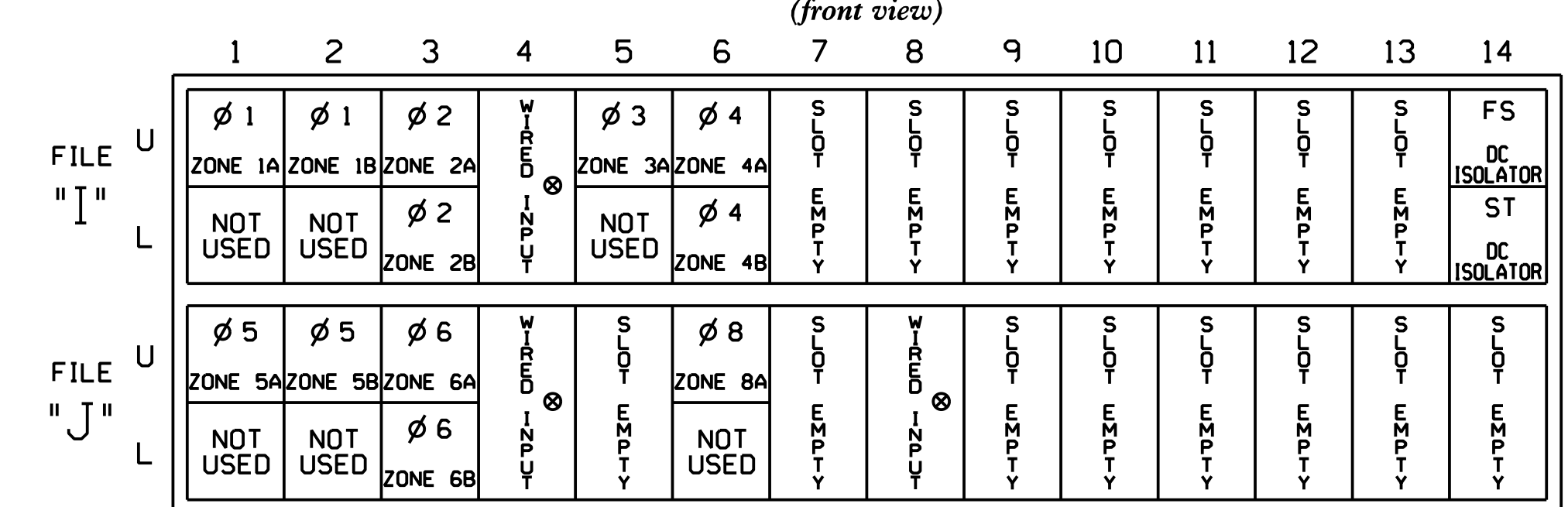
CONTROLLER.....2070E
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S4,S5,S7,S8,S11,AUX S1
 AUX S2,AUX S3,AUX S4,AUX S5
 AUX S6
 PHASES USED.....1,2,3,4,5,6,8
 OVERLAP "A".....1+2
 OVERLAP "B".....3+4
 OVERLAP "C".....5+6
 OVERLAP "D".....8
 OVERLAP "E".....1+8
 OVERLAP "F".....4+5

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	OLE	OLC	OLD	OLF		
SIGNAL HEAD NO.	11	21,22	NU	22	31	42,43	NU	51	61,62	NU	NU	81,82	NU	11	31	83	51	41	44	
RED		128		*	101			134			107					A111			A104	
YELLOW	*	129			102		*	135			108									
GREEN		130			103			136			109									
RED ARROW															A121	A124		A114	A101	
YELLOW ARROW															A122	A125	A112	A115	A102	A105
FLASHING YELLOW ARROW															A123	A126	A113	A116	A103	A106
GREEN ARROW	127			118	118			133												

NU = Not Used
 * Denotes install load resistor. See load resistor installation detail this sheet.
 ★ See pictorial of head wiring in detail this sheet.

INPUT FILE POSITION LAYOUT

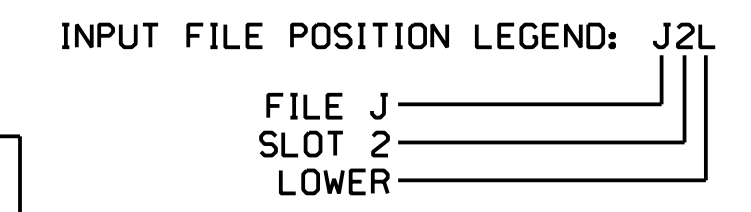


EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME
 ⊗ Wired Input - Do not populate slot with detector card

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
ZONE 1A	★	I1U	56	18	1	1	Y	Y			10
	-	J4U	48	10★	26	6	Y	Y			
ZONE 1B	★	I2U	39	1	2	1	Y	Y			15
	★	I3U	63	25	32	2	Y	Y			
ZONE 2A	★	I3L	76	38	42	2	Y	Y			
	★	I5U	58	20	3	3	Y	Y			10
ZONE 2B	★	J8U	50	12	28	8	Y	Y			
	★	I6U	41	3	4	4	Y	Y			3
ZONE 3A	★	I6L	45	7	14	4	Y	Y			
	★	J1U	55	17	5	5	Y	Y			10
ZONE 4A	★	I4U	47	9★	22	2	Y	Y			
	★	J1U	55	17★	55	5	Y	Y			
ZONE 5A	★	J2U	40	2	6	5	Y	Y			15
	★	J3U	64	26	36	6	Y	Y			
ZONE 6A	★	J3L	77	39	46	6	Y	Y			
	★	J6U	42	4	8	8	Y	Y			

- Add jumper from I1-W to J4-W, on rear of input file.
 - Add jumper from I5-W to J8-W, on rear of input file.
 - Add jumper from J1-W to I4-W, on rear of input file.
- * See Input Page Assignment programming details on sheets 4 and 5.
 ★★ Multizone Microwave Detector Zone. See Special Detector Note.



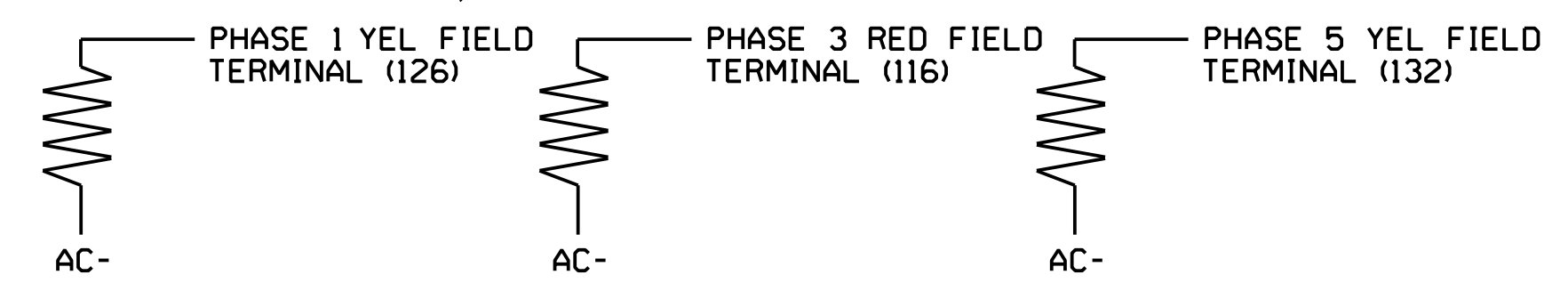
SPECIAL DETECTOR NOTE

Install a microwave detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

See vehicle detector setup programming detail for alternate phasing on sheets 4, 5, and 6.

LOAD RESISTOR INSTALLATION DETAIL

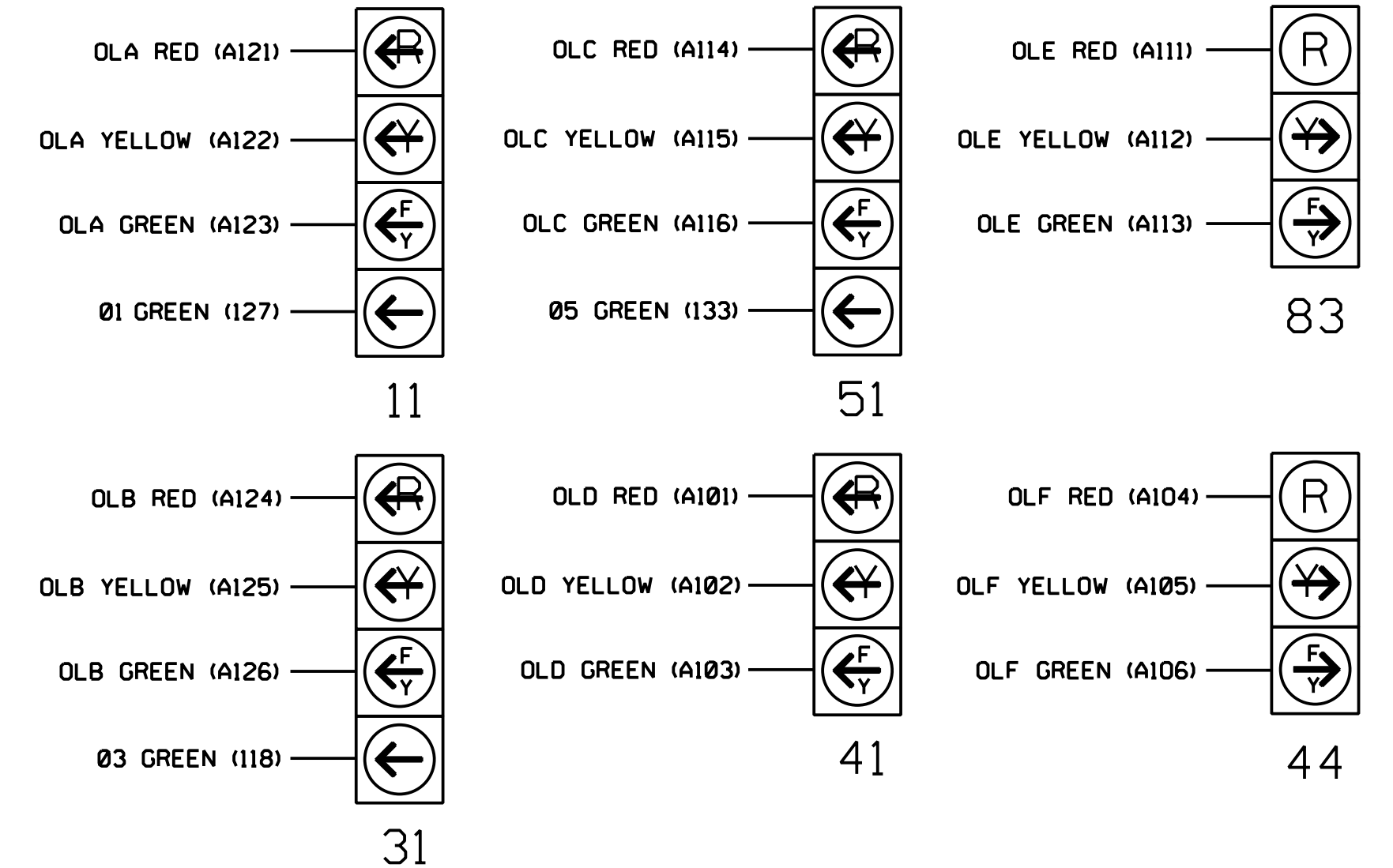
(install resistors as shown below)



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

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

The sequence display for signal heads 11, 31, and 51 requires special logic programming. See sheet 2 for programming instructions.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0369T3
 DESIGNED: February 2018
 SEALED: 8-1-18
 REVISED: N/A

Electrical Detail - Sheet 1 of 8
 Signal Upgrade
 Temporary Design 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	Prepared for: 	US 17 (Market Street) at SR 1363 (Bayshore Drive)/ SR 2717 (Torchwood Boulevard)	SEAL
	HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997	Division 03 New Hanover Co. Wilmington PLAN DATE: February 2018 REVIEWED BY: A.D. Klinskiak PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons	Revisions table with columns for Revisions, Init., and Date.