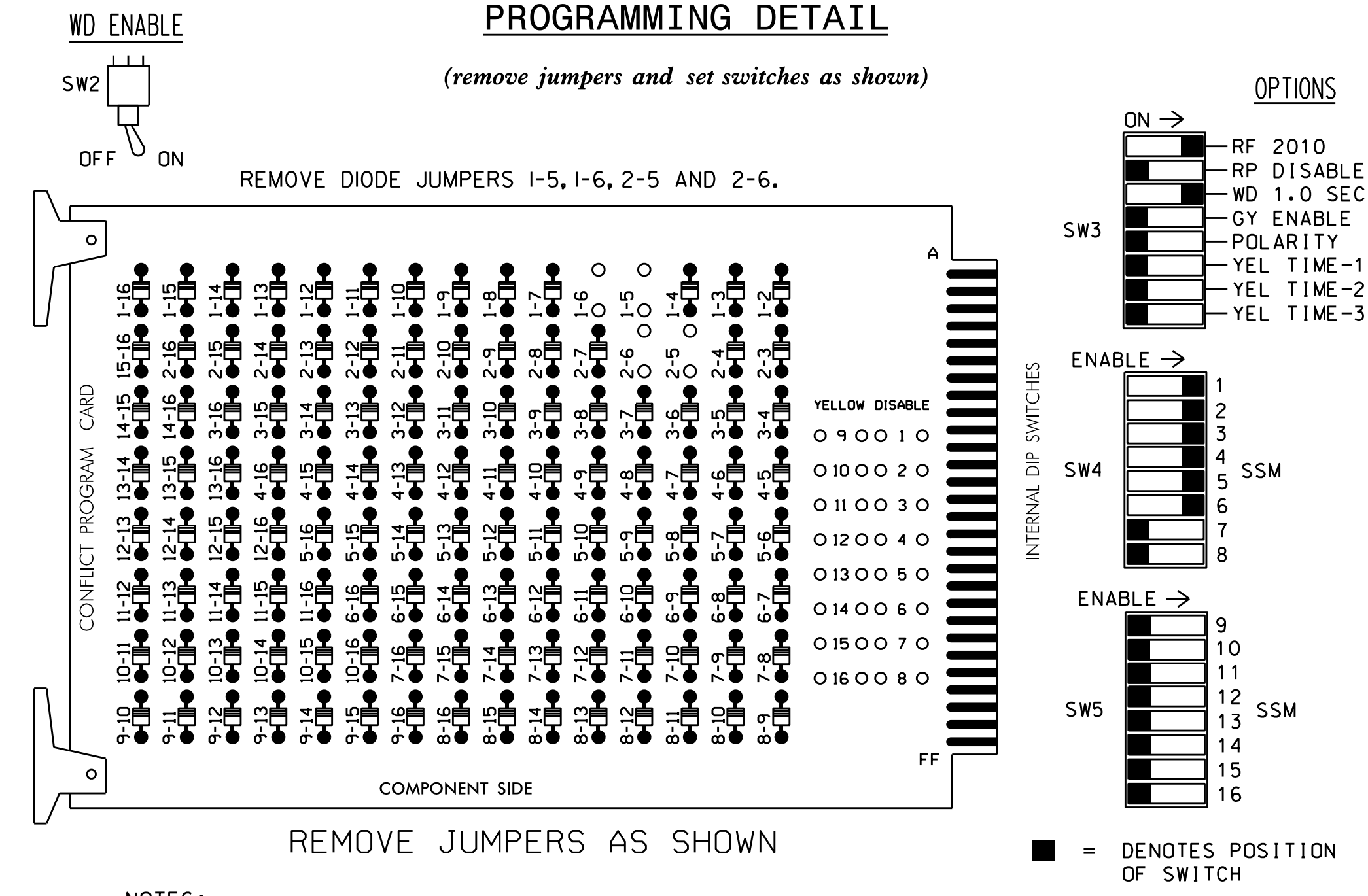


EDI MODEL 2010ECL CONFLICT MONITOR



- NOTES:
- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
 - Make sure jumpers SEL2-SEL5 are present on the monitor board.

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.
- Ensure that Red Enable is active at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 7,8,9,10, 11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Enable Simultaneous Gap-Out for all Phases.
- Program phases 2 and 6 for Startup In Green.
- Program phases 2 and 6 for Yellow Flash.
- The cabinet and controller are part of the US 701 Bus. (Clinton) CLS.

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8				
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8				
SIGNAL HEAD NO.	32	61	21,22	NU	31	32	41	42	63	NU	21	61,62 63	NU	NU	NU
RED	*		128		116	116	101	101			*	134			
YELLOW			129		117	117	102	102				135			
GREEN			130		118	118	103	103				136			
RED ARROW															
YELLOW ARROW	126	126						102				132			
GREEN ARROW	127	127						103				133			

NU = Not Used
 * Denotes install load resistor. See load resistor installation detail this sheet.

EQUIPMENT INFORMATION

CONTROLLER.....2070
 CABINET.....336
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....POLE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6
 PHASES USED.....1,2,3,4,5,6
 OVERLAPS.....NONE

BACKUP PROTECTION NOTE

(program controller as shown below)
 From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Program phases 2 and 6 for 'Backup Protect'. Make sure the Red Revert times shown on the Signal Design Plans are programmed in the 'Phase Timing' menu.

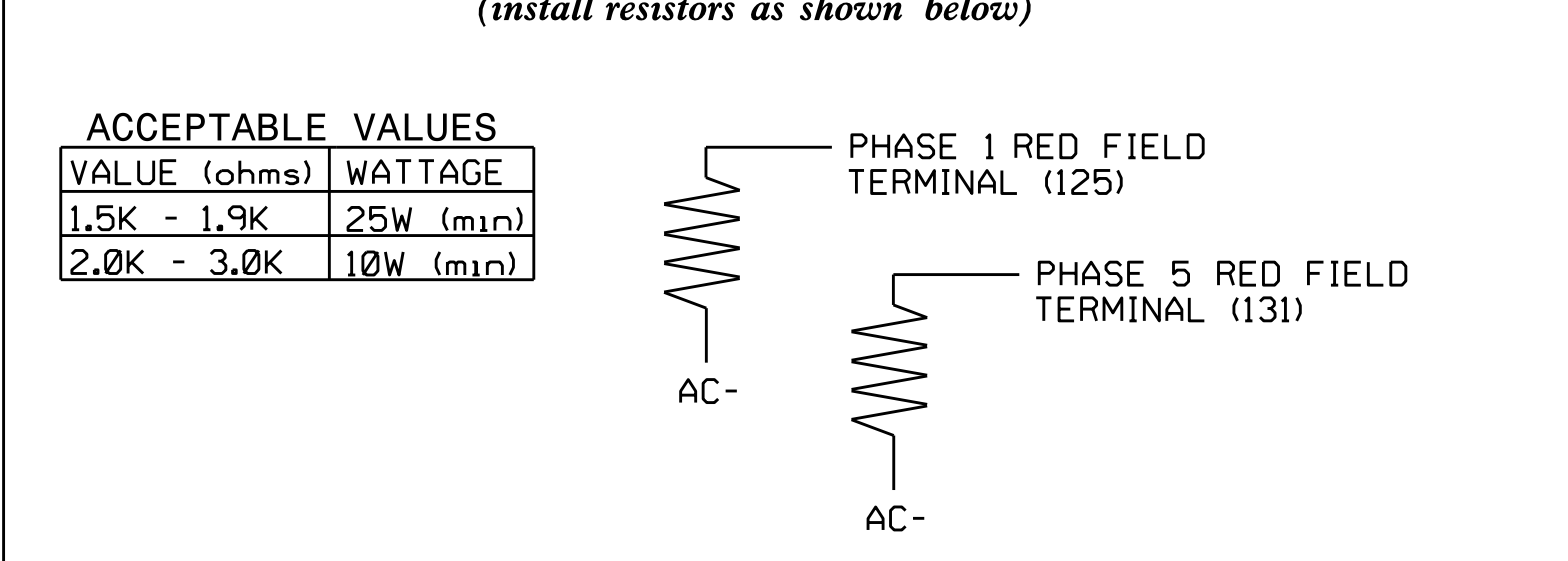
INPUT FILE POSITION LAYOUT

(front view)

FILE	U	L	1	2	3	4	5	6	7	8	9	10	11	12	13	14
∅ 5	NOT USED	∅ 1	∅ 4	∅ 4	∅ 4	SYS DET S13	SYS DET S15	S	S	S	S	S	S	S	S	FS
5A	2A,2B	1A	3A	1B	6A,6B	S14	S16	STOP	STOP	STOP	STOP	STOP	STOP	STOP	STOP	DC ISOLATOR
∅ 2	∅ 2	∅ 6	∅ 3	∅ 1	∅ 6	SYS DET S14	SYS DET S16	STOP	STOP	STOP	STOP	STOP	STOP	STOP	STOP	ST
5A	2A,2B	1A	3A	1B	6A,6B	S14	S16	STOP	STOP	STOP	STOP	STOP	STOP	STOP	STOP	DC ISOLATOR

EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME

LOAD RESISTOR INSTALLATION DETAIL

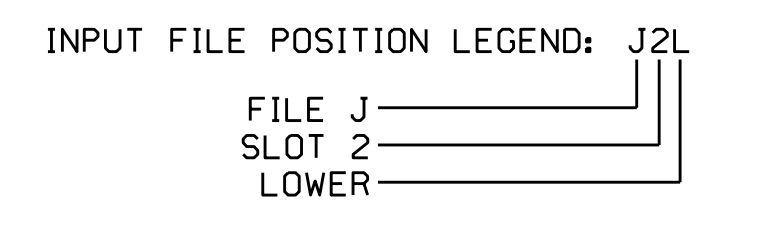


THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0221
 DESIGNED: March 2017
 SEALED: 4-26-17
 REVISED: N/A

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
5A ¹	TB21-1,2	I1U	56	18	1	5	Y	Y			15
	TB23-1,2	I1L	47	9	22	2	Y	Y			
2A,2B	TB23-3,4	I2L	43	5	12	2	Y	Y			
1A ²	TB21-5,6	I3U	58	20	3	1	Y	Y			15
	TB23-5,6	I3L	49	11	24	6	Y	Y			
4A	TB21-7,8	I4U	41	3	4	4	Y	Y			3
3A	TB23-7,8	I4L	45	7	14	3	Y	Y			3
4B	TB21-9,10	I5U	55	17	5	4	Y	Y			15
1B	TB23-9,10	I5L	48	10	26	1	Y	Y			15
4C	TB21-11,12	I6U	40	2	6	4	Y	Y			5
6A,6B	TB23-11,12	I6L	44	6	16	6	Y	Y			
S13	TB21-13,14	I7U	57	19	7	SYS					
S14	TB23-13,14	I7L	50	12	28	SYS					
S15	TB22-1,2	I8U	42	4	8	SYS					
S16	TB24-1,2	I8L	46	8	18	SYS					

*System Detector only. Remove the vehicle phase assigned to this detector in the default programming.
¹Add jumper from TB21-1 to TB23-1 and from TB21-2 to TB23-2.
²Add jumper from TB21-5 to TB23-5 and from TB21-6 to TB23-6.



DYNAMIC BACK-UP CONTROL PROGRAMMING

(program controller as shown below)
 From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Scroll to the bottom of the menu and **DISABLE** Dynamic/Backup Control Functions 1 and 2, if present.

04-MAR-2017 08:35 S:\MIS\15\SIGNAL\work\hgr\oups\g_Mon#eter.som\030221_smc.ele_xxxx.dgn T:\pererson

Electrical Detail

REVISION SEAL

Electrical and Programming Details for: US 701 Bus.-NC 24/US 701 Bus. (Southeast Boulevard) at NC 24 (Martin Luther King Jr. Blvd)/Dollar General

Division 3 Sampson County Clinton

PLAN DATE: September 2005 REVIEWED BY:

PREPARED BY: SP Pennington REVIEWED BY:

REVISIONS

Added new loops, note 5 and backup protection. (J.P.) KMM 5/4/2017

Seal: Keith M. Mims, Professional Engineer, No. 036880, State of North Carolina.

Seal: Transporatio Mobility and Safety, State of North Carolina, Signal Management System, 750 N. Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Not a certified document as to the Original Document but only as to the Revisions - This document originally issued and sealed by Marceau, Daren E., PE#02490, on 11-01-05. This document is only certified as to the revisions.

SIG. INVENTORY NO. 03-0221