



- ### 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 1,3,5, 6,7,9,10,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
 - Program controller to start up in phase 2 green.
 - Enable Simultaneous Gap-Out, on the controller unit, for all phases.
 - Program phases 4 and 8, on the controller unit, for Dual Entry.
 - The cabinet and controller are part of the Gastonia City System.

FIELD CONNECTION HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED
SIGNAL HEAD NO.	NU	21,22	NU	NU	41,42	NU	NU	NU	NU	NU	81,82	NU
GREEN		130			103						109	
YELLOW		129			102						108	
RED		128			101						107	
RED ARROW												
YELLOW ARROW												
GREEN ARROW												

NU = Not Used

EQUIPMENT INFORMATION

CONTROLLER.....CONTRACTOR SUPPLIED 2070L
 CABINET.....CONTRACTOR SUPPLIED 336
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....POLE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S2,S4,S8
 PHASES USED.....2,4,8
 OVERLAPS.....NONE

INPUT FILE POSITION LAYOUT

(front view)

FILE	U	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		FS	FS	FS	4A	FS	FS	FS	8A	FS	FS	FS	FS	FS	FS
		FS	FS	FS	NOT USED	FS	FS	FS	NOT USED	FS	FS	FS	FS	FS	FS
		FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS

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.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
4A	TB21-7,8	I4U	41	3	4	4	Y	Y			10
8A	TB22-1,2	I8U	42	4	8	8	Y	Y			10

INPUT FILE POSITION LEGEND: I2L

FILE I _____
 SLOT 2 _____
 LOWER _____

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 12-0072
 DESIGNED: January 2005
 SEALED: 1/21/05
 REVISED:

24-JAN-2005 10:13
 C:\WORK\2005\12-0072\12-0072.dgn
 WJL:KSO

Signal Upgrade

Prepared in the Office of: 122 N. McDowell St., Raleigh, NC 27603	US 321 (York St.) at Third Ave.	SEAL GEORGE C. BROWN ENGINEER SEAL 022013	Division 12 Gaston County Gastonia PLAN DATE: January 2005 PREPARED BY: William Hairston REVIEWED BY: <i>WJA</i> REVISIONS: _____ INIT. DATE: _____ SIGNATURE: <i>George C. Brown</i> 1/31/05 DATE: _____ SIG. INVENTORY NO. 12-0072
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