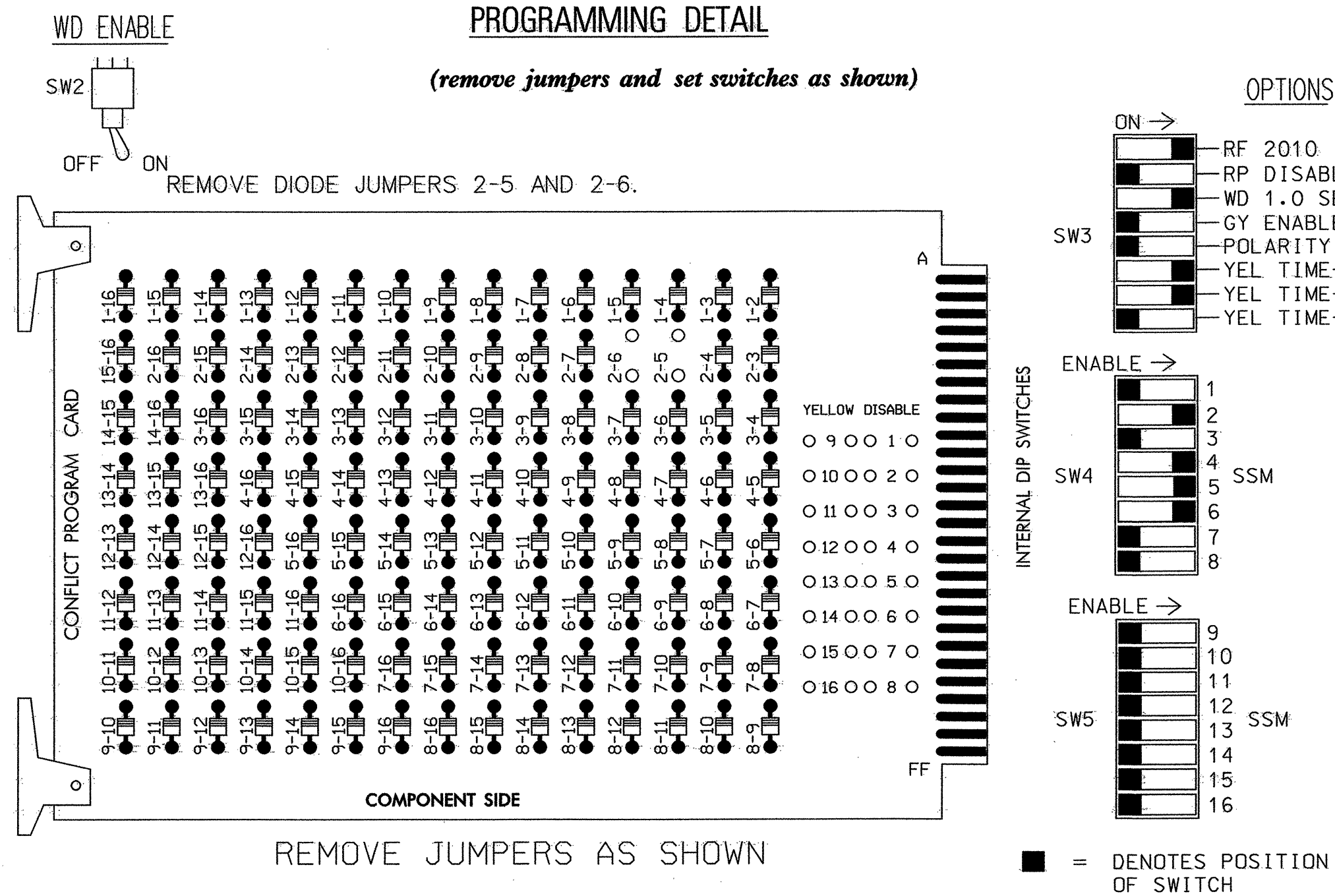


EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

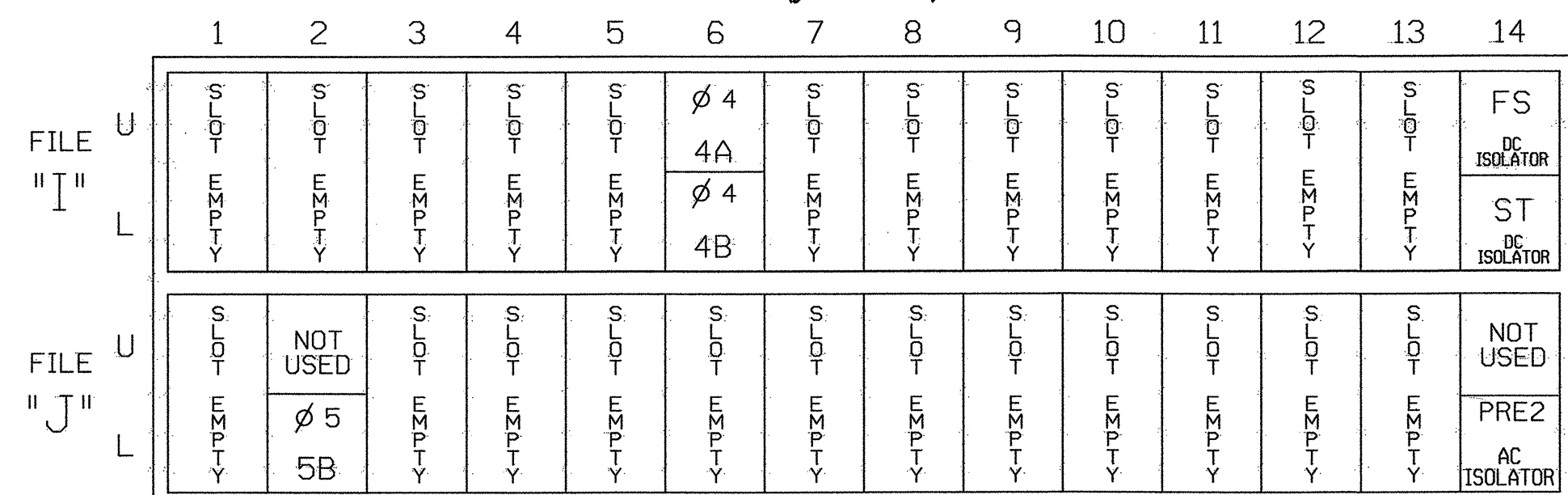


NOTES:

- CARD IS PROVIDED WITH ALL DIODE JUMPERS IN PLACE. REMOVAL OF ANY JUMPER ALLOWS ITS CHANNELS TO RUN CONCURRENTLY.
- MAKE SURE JUMPERS SEL1-SEL5 ARE PRESENT ON THE MONITOR BOARD.

INPUT FILE POSITION LAYOUT

(front view)

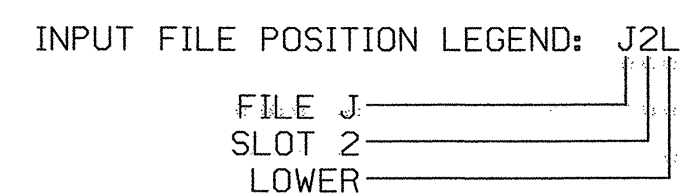


EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
ST = STOP TIME  
PRE2 = PREEMPTOR 2 (EV)

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	TB4-9,10	I6U	41	3	4	4	Y	Y	-	---	---
4B	TB4-11,12	I6L	45	7	14	4	Y	Y	-	---	---
5B	TB3-7,8	J2L	44	6	16	5	Y	Y	-	---	15



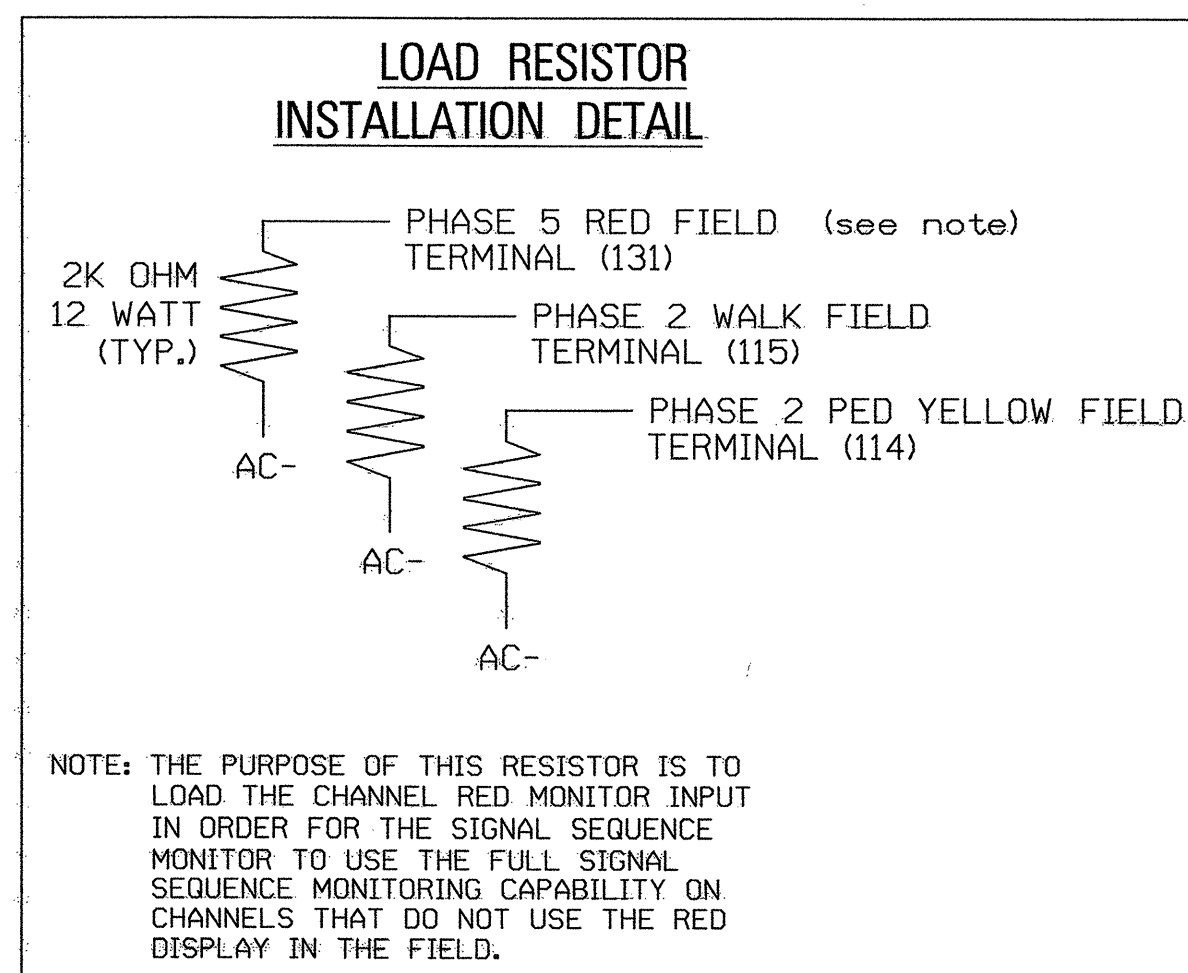
NOTES

- 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 1,7,8,9,10,11,12,13,14,15 & 16 TO LOAD SWITCH AC+ PER CABINET MANUFACTURER'S INSTRUCTIONS.
- PROGRAM CONTROLLER TO START UP IN PHASES 2 AND 6 GREEN.
- ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
- INSTALL THE ACCUTIME 2000 GPS PER THE MANUFACTURER'S INSTRUCTIONS AND THE CONNECTOR WIRING DETAIL. THE GPS UNIT WILL BE REMOVED WHEN THE FIBEROPTIC CABLE IS INSTALLED.
- THE CONTROLLER AND CABINET ARE TO BE PROGRAMMED AND WIRED TO BE PART OF A CLOSED LOOP SIGNAL SYSTEM. MASTER ASSET: 10308

SPECIAL DETECTOR AND INPUT FILE NOTE

INSTALL A LOOP EMULATOR 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.

LOAD RESISTOR INSTALLATION DETAIL



NOTE: THE PURPOSE OF THIS RESISTOR IS TO LOAD THE CHANNEL RED MONITOR INPUT IN ORDER FOR THE SIGNAL SEQUENCE MONITOR TO USE THE FULL SIGNAL SEQUENCE MONITORING CAPABILITY ON CHANNELS THAT DO NOT USE THE RED DISPLAY IN THE FIELD.

FIELD CONNECTION HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
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.	NU	21,22	NU	31	32	41	42	NU	21,42	61,62	NU	NU	NU	NU	NU	NU	NU	NU
GREEN		130		118	118	103	103			136								
YELLOW		129		117	117	102	102			135								
RED		128		116	116	101	101		*	134								
RED ARROW																		
YELLOW ARROW										132								
GREEN ARROW						118	103			133								

NU = NOT USED

\* DENOTES INSTALL LOAD RESISTOR. SEE LOAD RESISTOR INSTALLATION DETAIL THIS PAGE.

EQUIPMENT INFORMATION

CONTROLLER.....CONTRACTOR SUPPLIED 2070L  
CABINET .....CONTRACTOR SUPPLIED 332  
SOFTWARE .....ECONOLITE OASIS  
CABINET MOUNT.....BASE  
OUTPUT FILE POSITIONS...18 (12-STD, 6-AUX)  
LOAD SWITCHES USED.....S2,S3,S4,S5,S6  
PHASES USED.....2,3\*,4,5,6  
OVERLAPS.....NONE

\* PHASE 3 USED IN PREEMPT ONLY

BACK-UP PROTECTION PROGRAMMING NOTES

(program controller as shown below)

PROGRAM THE CONTROLLER AS FOLLOWS TO ENABLE PHASE 2+6 TO CLEAR TO PHASE 2+5 BY PROGRESSING THROUGH AN ALL RED DISPLAY.

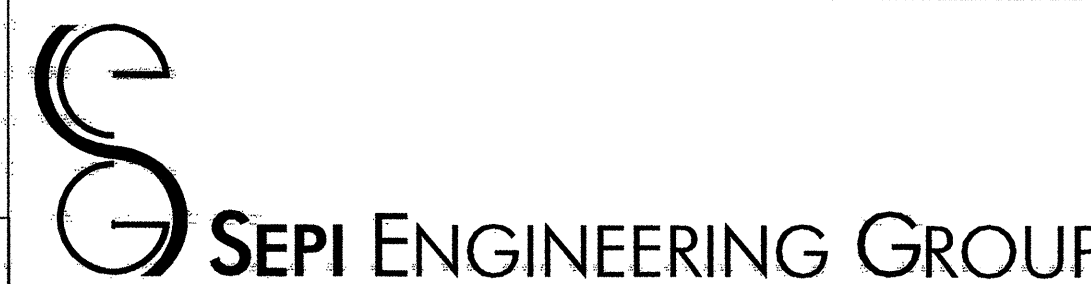
- FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL DOWN THE MENU TO "BACKUP PROTECT" FEATURE AND SELECT PHASE 2.
- ENSURE THAT RED REVERT TIMES AS SHOWN ON THE SIGNAL DESIGN PLANS ARE PROGRAMMED IN THE 'PHASE TIMING' MENU.

PREEMPT ONLY PHASE OMIT NOTE

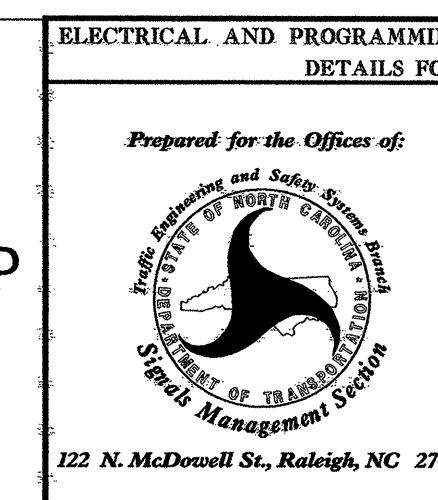
(program controller as shown below)

FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). PROGRAM PHASE 3 FOR 'OMIT PHASE' AND PHASES 2, 4, 5 AND 6 FOR 'STARTUP CALLS'. THIS IS TO PREVENT PHASE 3 FROM BEING SERVED WHEN NOT IN PREEMPT.

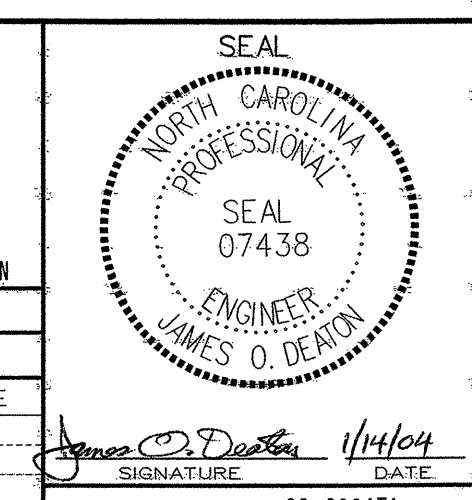
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0884T1  
DESIGNED: SEPTEMBER 2003  
SEALED: 1/7/2004  
REVISED: TBD



2300 Rexwoods Drive  
Suite 370  
Raleigh, NC 27607  
Tel:919-789-9977 Fax:789-9591



ELECTRICAL AND PROGRAMMING DETAILS FOR:		SR 1409 (MILITARY CUTOFF ROAD)	
AT		SR 2048 (GORDON ROAD) AND (OGDEN RESCUE SQUAD)	
DIVISION 03	NEW HANOVER COUNTY	WILMINGTON	
PLAN DATE: NOVEMBER 2003	REVIEWED BY: J O DEATON		
PREPARED BY: M W YALCH	REVIEWED BY:		
REVISIONS:	INIT.	DATE	



1/14/04  
DATE  
SIG. INVENTORY NO. 03-0884T1