

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

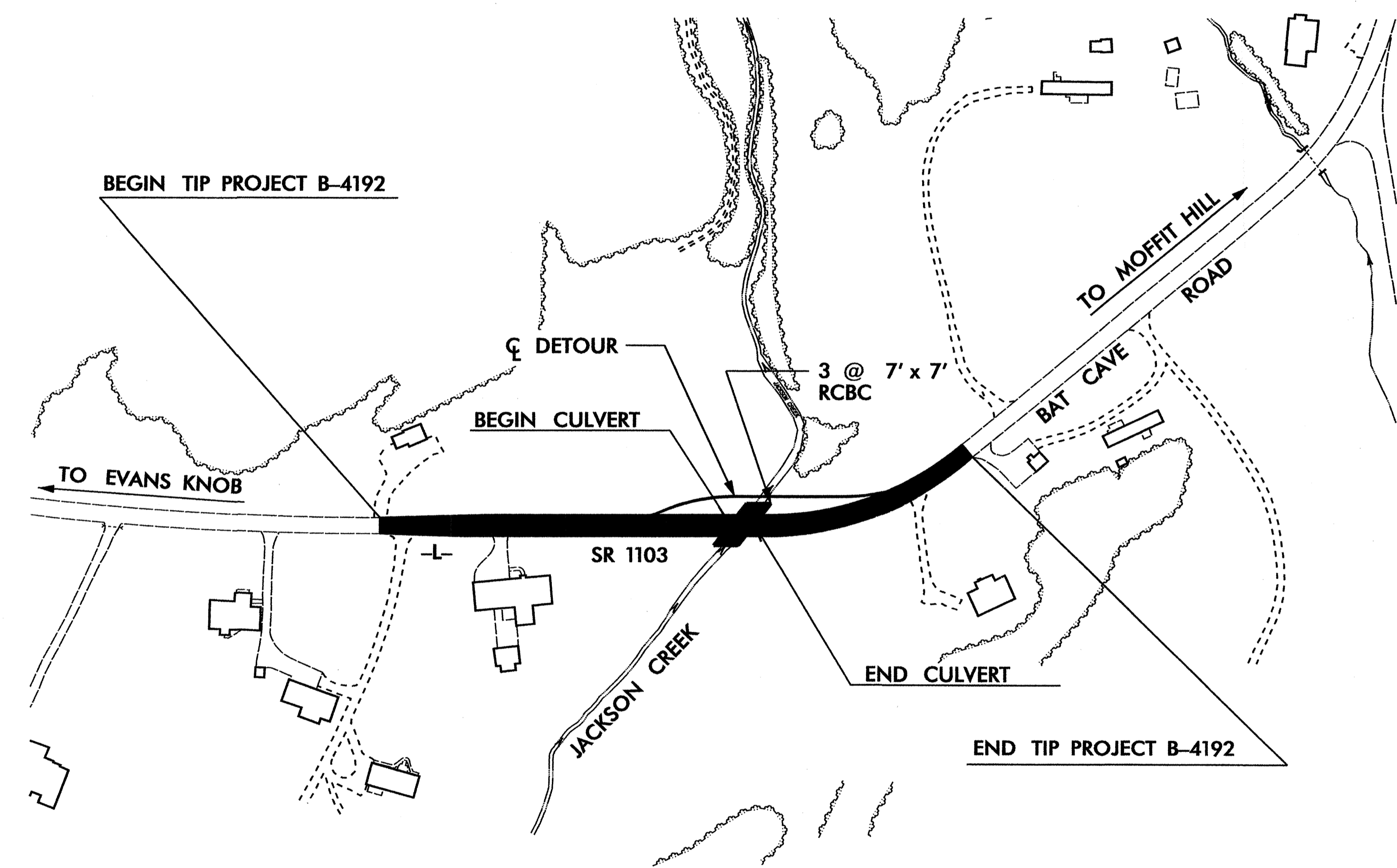
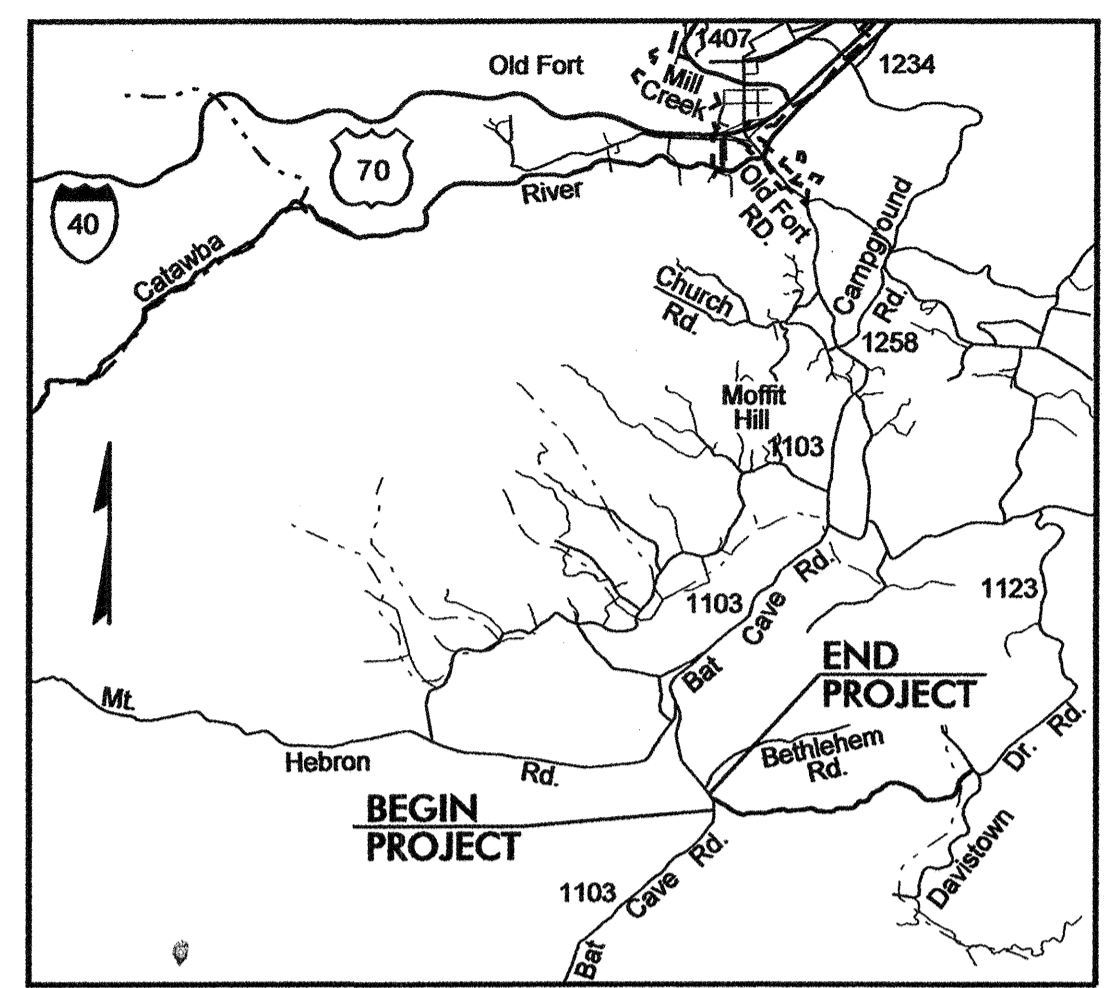
# McDOWELL COUNTY

**LOCATION:** Bridge No. 264 on SR 1103 (Bat Cave Road) over Jackson Creek

**TYPE OF WORK:** Signals

**Project: B-4192**

Vicinity



Refer to "Roadway Standard Drawings NCDOT" dated July 2006 and "Standard Specifications for Roads and Structures" dated July 2006.

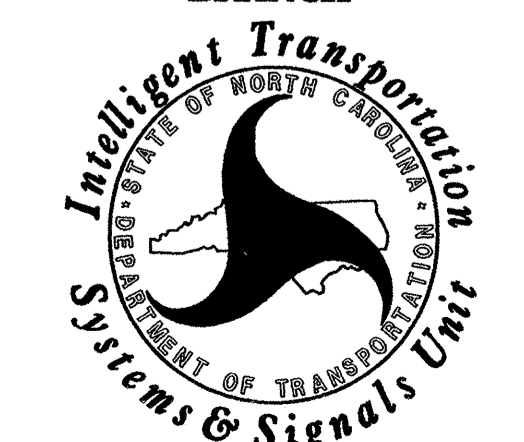
**Index of Plans**

Sheet #	Reference #	Location/Description
Sig. 1	-----	Title Sheet
Sig. 2	13-1182	SR 1103 (Bat Cave Road) at Bridge #264

**INTELLIGENT TRANSPORTATION SYSTEMS AND SIGNALS UNIT**

Contacts:  
**D. Y. Ishak - Signals and Geometrics Contracts Engineer**  
**G. C. Brown, PE - Signal Equipment Design Engineer**  
**G. G. Murr, Jr., PE - Intelligent Transportation Systems Engineer**

Prepared In the Office of:  
 DIVISION OF HIGHWAYS  
 TRAFFIC ENGINEERING AND SAFETY SYSTEMS  
 BRANCH

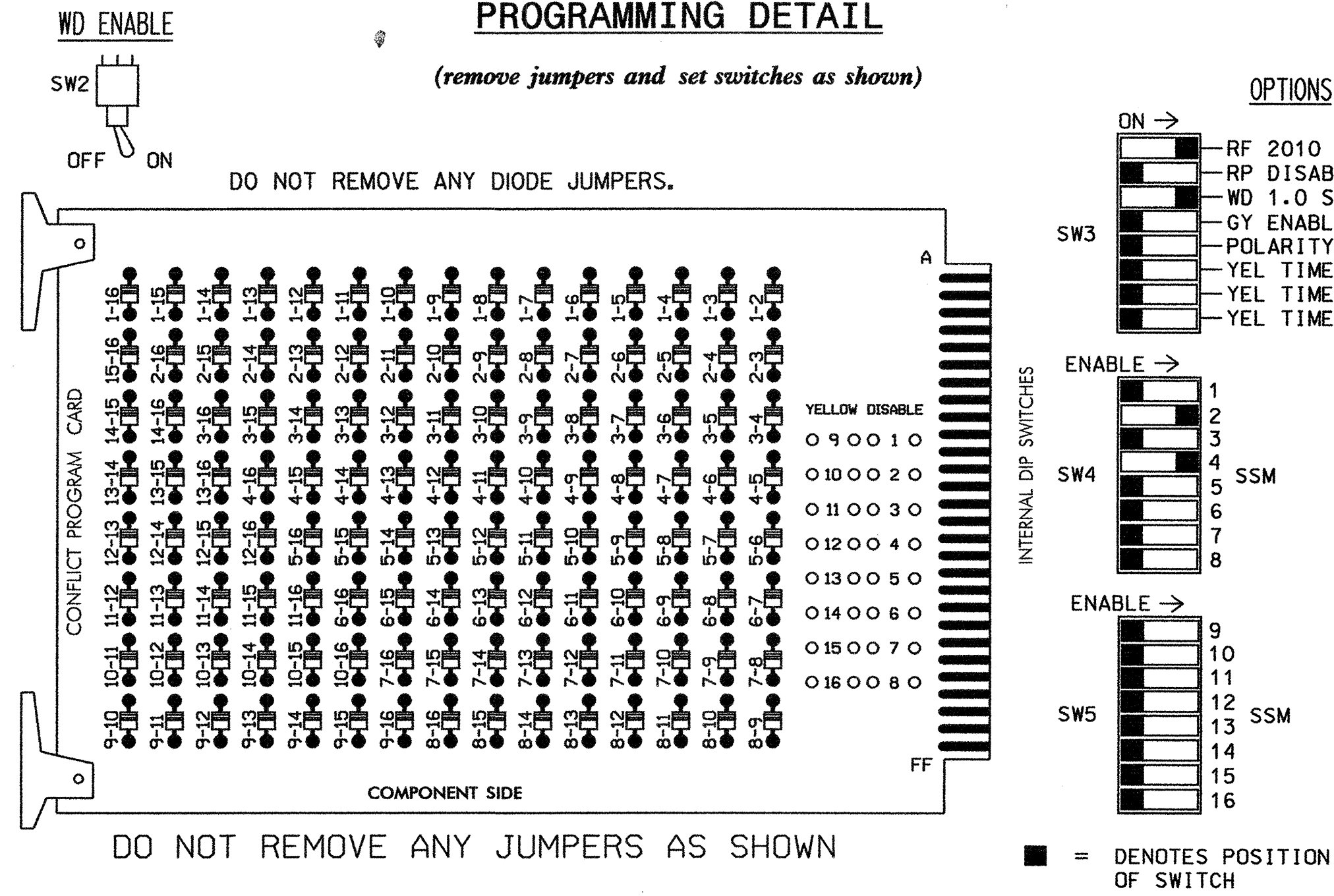


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**EDI MODEL 2010ECL CONFLICT MONITOR**

**PROGRAMMING DETAIL**



**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.

**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, 6,7,8,9,10,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Program phase 2, on the controller unit, for Start Up In Red Clearance.
- Enable Simultaneous Gap-Out, on the controller unit, for all phases.
- Program phase 2, on the controller unit, as First Phase.

**SIGNAL HEAD 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	NU	NU
RED		128			101							
YELLOW		129			102							
GREEN		130			103							
RED ARROW												
YELLOW ARROW												
GREEN ARROW												

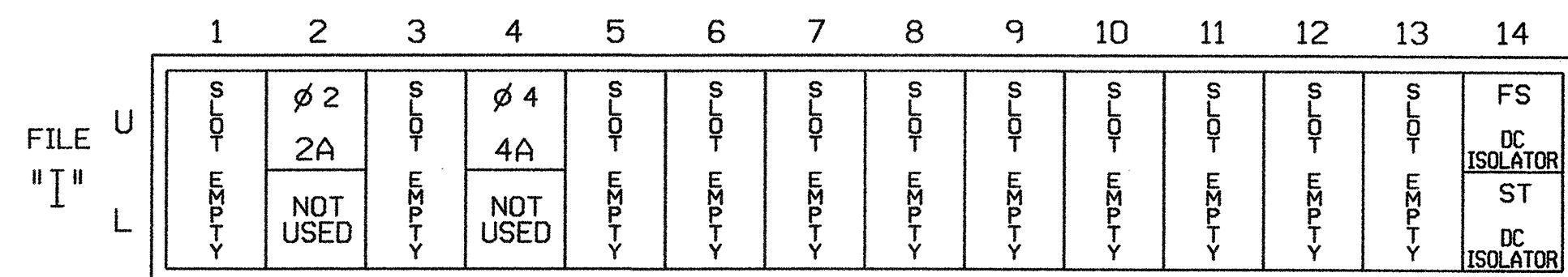
NU = Not Used

**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  
 PHASES USED.....2,4  
 OVERLAPS.....NONE

**INPUT FILE POSITION LAYOUT**

(front view)

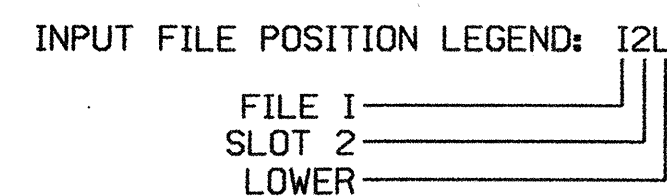


EX. : 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
ST = STOP TIME

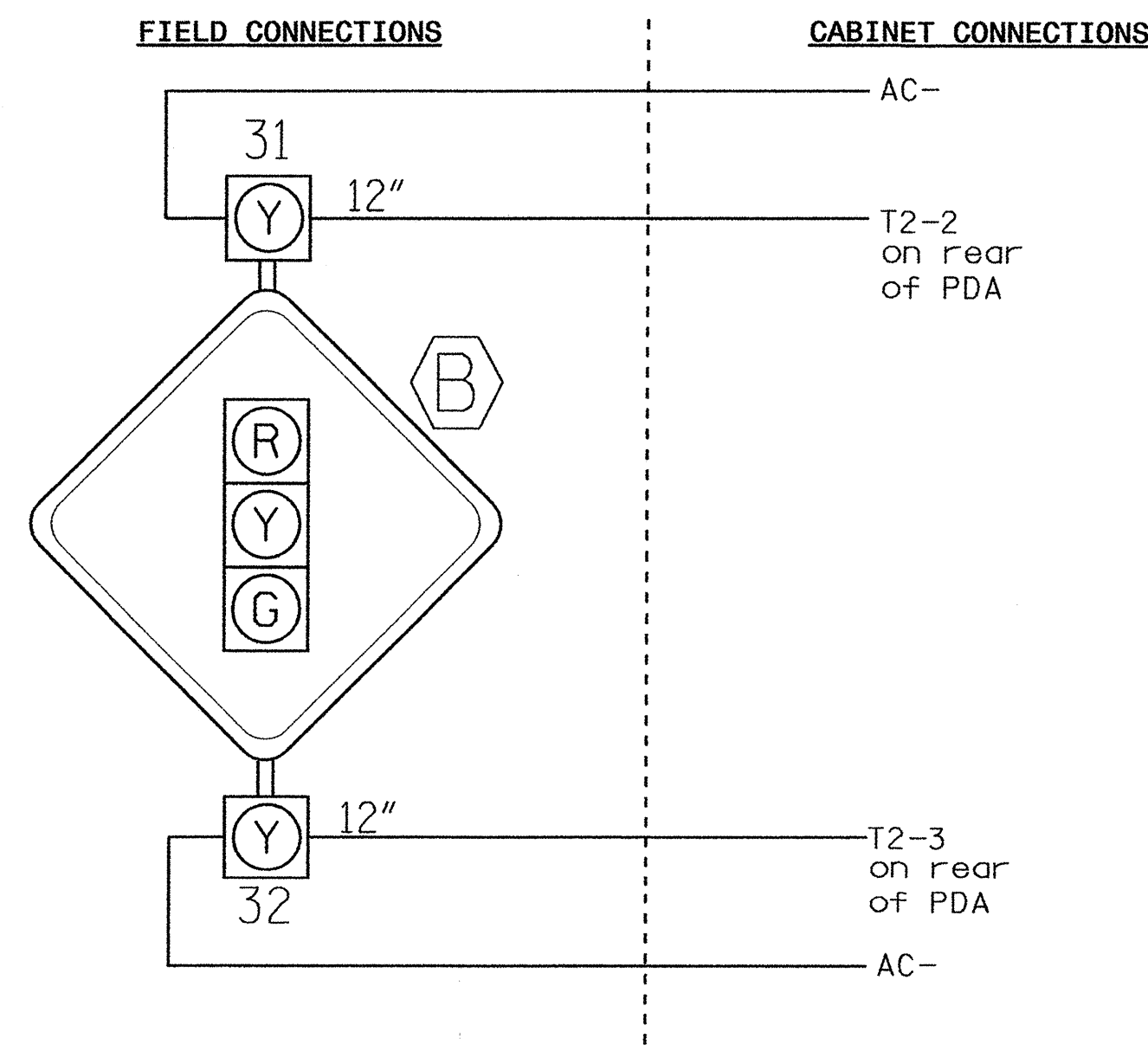
**INPUT FILE CONNECTION & PROGRAMMING CHART**

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
2A	TB21-3,4	I2U	39	1	2	2	Y	Y			3
4A	TB21-7,8	I4U	41	3	4	4	Y	Y			3



**FLASHER WIRING DETAIL**

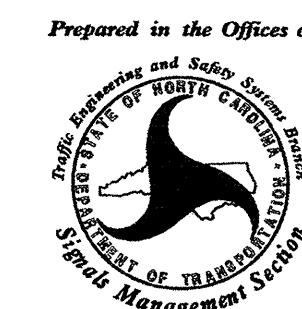
(wire flashers as shown below)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-1182  
 DESIGNED: July 2006  
 SEALED: 08-28-06  
 REVISED: NA

New Installation - Temporary

ELECTRICAL AND PROGRAMMING DETAILS FOR:



122 N. McDowell St., Raleigh, NC 27603

SR 1103 (Bat Cave Road)  
at  
Bridge #264

Division 13 McDowell County near Moffitt Hill

PLAN DATE: August 2006 REVIEWED BY: JWR

PREPARED BY: James Peterson REVIEWED BY:

REVISIONS INIT. DATE

SEAL  
 JOHN T. ROWE  
 PROFESSIONAL ENGINEER  
 STATE OF NORTH CAROLINA  
 License No. 008453  
 Signature: John T. Rowe  
 Date: 9-13-06

SIG. INVENTORY NO. 13-1162