

Project: B-3119

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

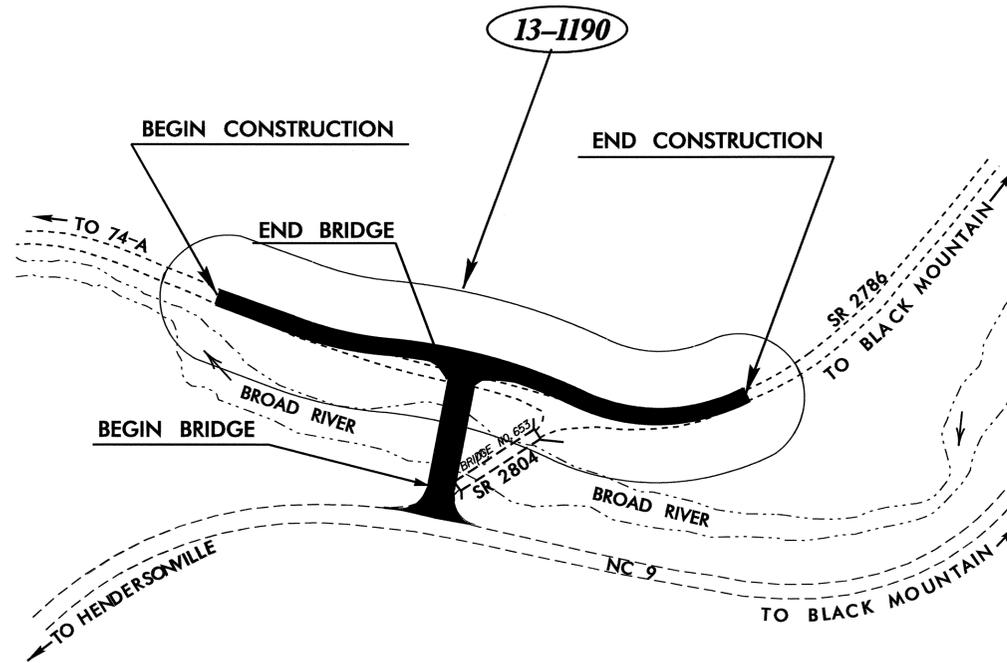
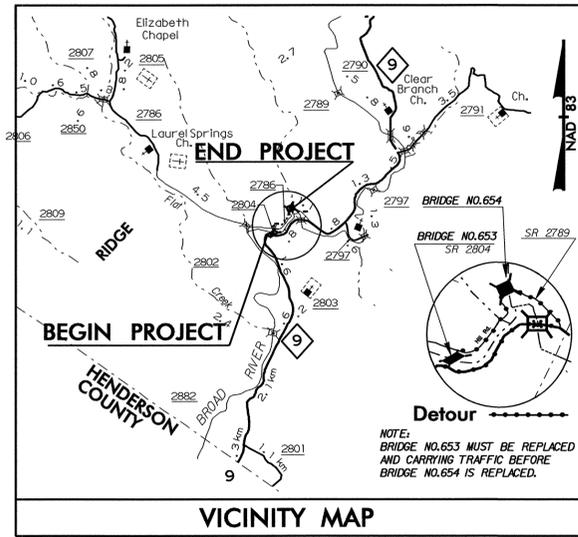
Project No. B-3119	Sheet No. Sig. 1
------------------------------	----------------------------



BUNCOMBE COUNTY

**LOCATION: BRIDGE NO. 653 OVER THE BROAD RIVER ON
SR 2786 (MORGAN HILL ROAD)**

TYPE OF WORK: SIGNALS



Refer to "Roadway Standard Drawings
NCDOT" dated January 2002 and
"Standard Specifications for Roads
and Structures" dated January 2002.

Index of Plans		
Sheet #	Reference #	Location/Description
Sig. 1	-----	Title Sheet
Sig. 2	13-1190	SR 2786 (Morgan Hill Road) at Bridge #653 over Broad River
Sig. 4	-----	2070L Cabinet Typical

INTELLIGENT TRANSPORTATION 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

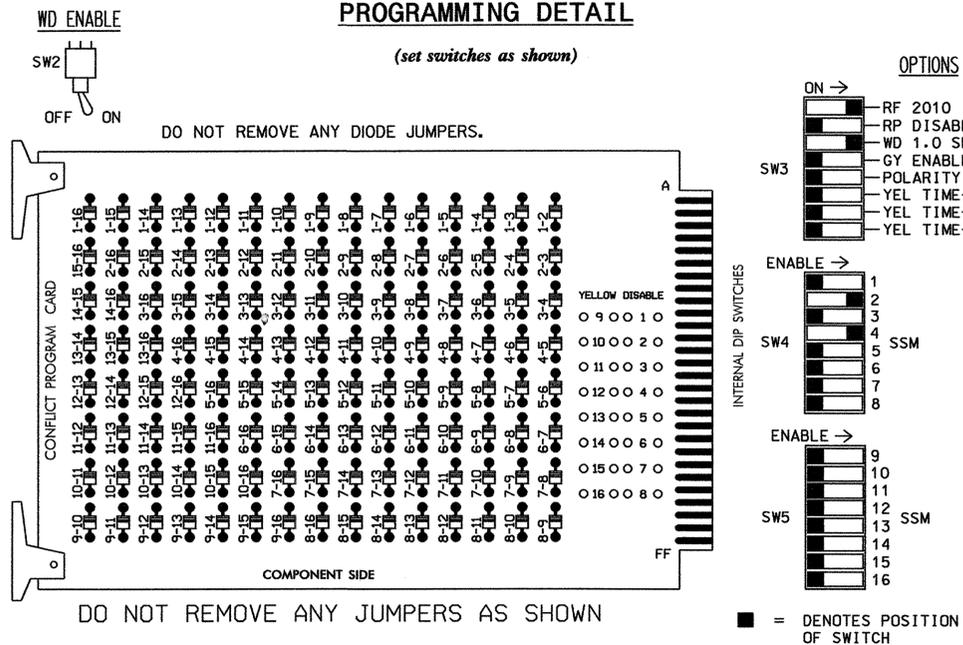
Prepared In the Office of:
DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING AND SAFETY SYSTEMS
BRANCH

122 N. McDowell St., Raleigh, NC 27603

03-OCT-2006 09:42
st:\tss\sig-1\workgr-1\tuppro-1\b-3119\b3119.tsh
rdh

EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL



DO NOT REMOVE ANY JUMPERS 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.

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 Red Clear.
- Enable Simultaneous Gap-Out, on the controller unit, for all phases.
- Program phase 2, on the controller unit, as First Phase.

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

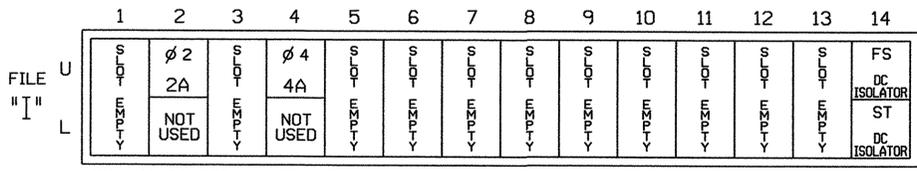
SIGNAL HEAD HOOK-UP CHART

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

INPUT FILE POSITION LAYOUT

(front view)

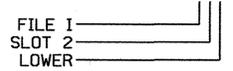


EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME

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			
4A	TB21-7,8	I4U	41	3	4	4	Y	Y			

INPUT FILE POSITION LEGEND: I2L



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-1190
 DESIGNED: September 2006
 SEALED: 09-20-06
 REVISED: NA

New Installation - Temporary

ELECTRICAL AND PROGRAMMING DETAILS FOR: SR 2786 (Morgan Hill Road) at Bridge #653 over Broad River

Prepared in the Offices of:

Division 13 Buncombe County East of Fairview

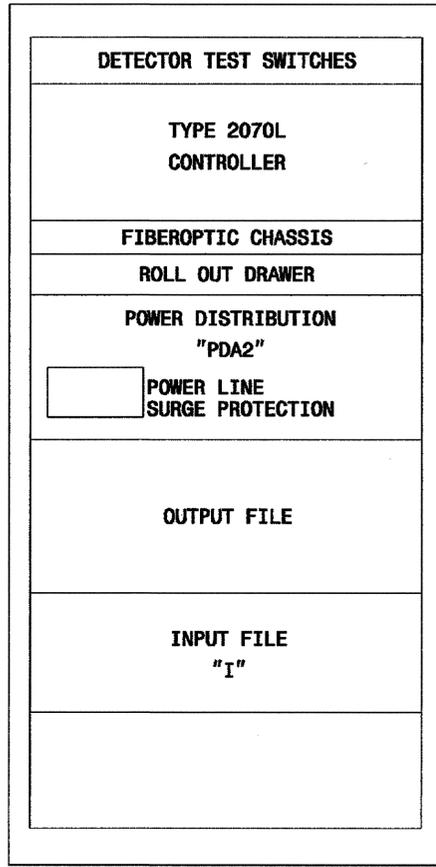
PLAN DATE: September 2006 REVIEWED BY: *T. J. J...*

PREPARED BY: James Peterson REVIEWED BY: *T. J. J...*

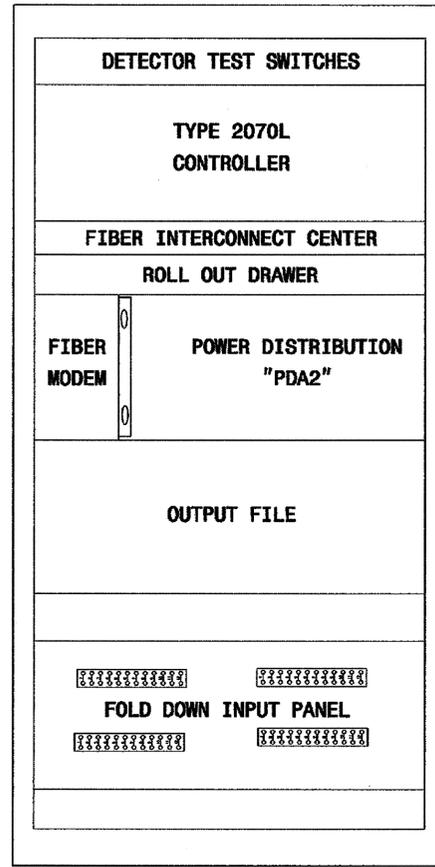
REVISIONS	INIT.	DATE

Signature: *John T. Rowe* 9-21-06
 DATE: 9-21-06
 SIG. INVENTORY NO. 13-1190

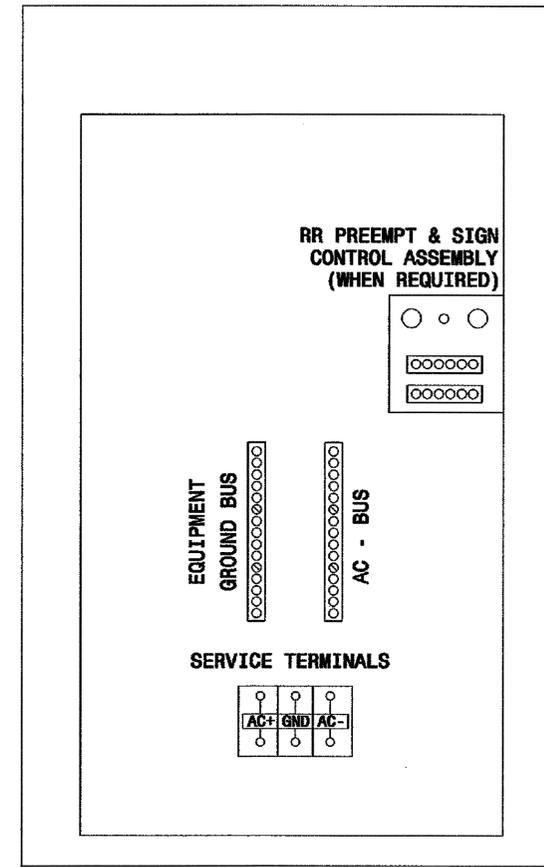
21-SEP-2006 09:14 34416 signal\workgroups\jg_mampeterson\31182_sml.e-xxx.dgn



336S CABINET
FRONT VIEW



336S CABINET
REAR VIEW



336S CABINET
REAR VIEW
RIGHT SIDE

NOTES

- PROVIDE A 50 MM SPACE BETWEEN THE CONTROLLER AND THE ROLL OUT DRAWER TO ACCOMMODATE A FIBER INTERCONNECT CENTER.
- INSTALL POWER LINE SURGE PROTECTION INSIDE POWER DISTRIBUTION ASSEMBLY.

Typical Drawing

	Cabinet Component Layout 170 Cabinet Model 336S with 2070L Controller		
	PLAN DATE: October 2002	REVIEWED BY:	
	PREPARED BY: P L Alexander	REVIEWED BY:	
	REVISIONS	INIT.	DATE
			SIGNATURE: <i>Wilton I. Dean</i> DATE: 11/13/02 SIG. INVENTORY NO. NA

13-MOV-2002 10:56
 170 cabinet.dgn
 p.l.alexander