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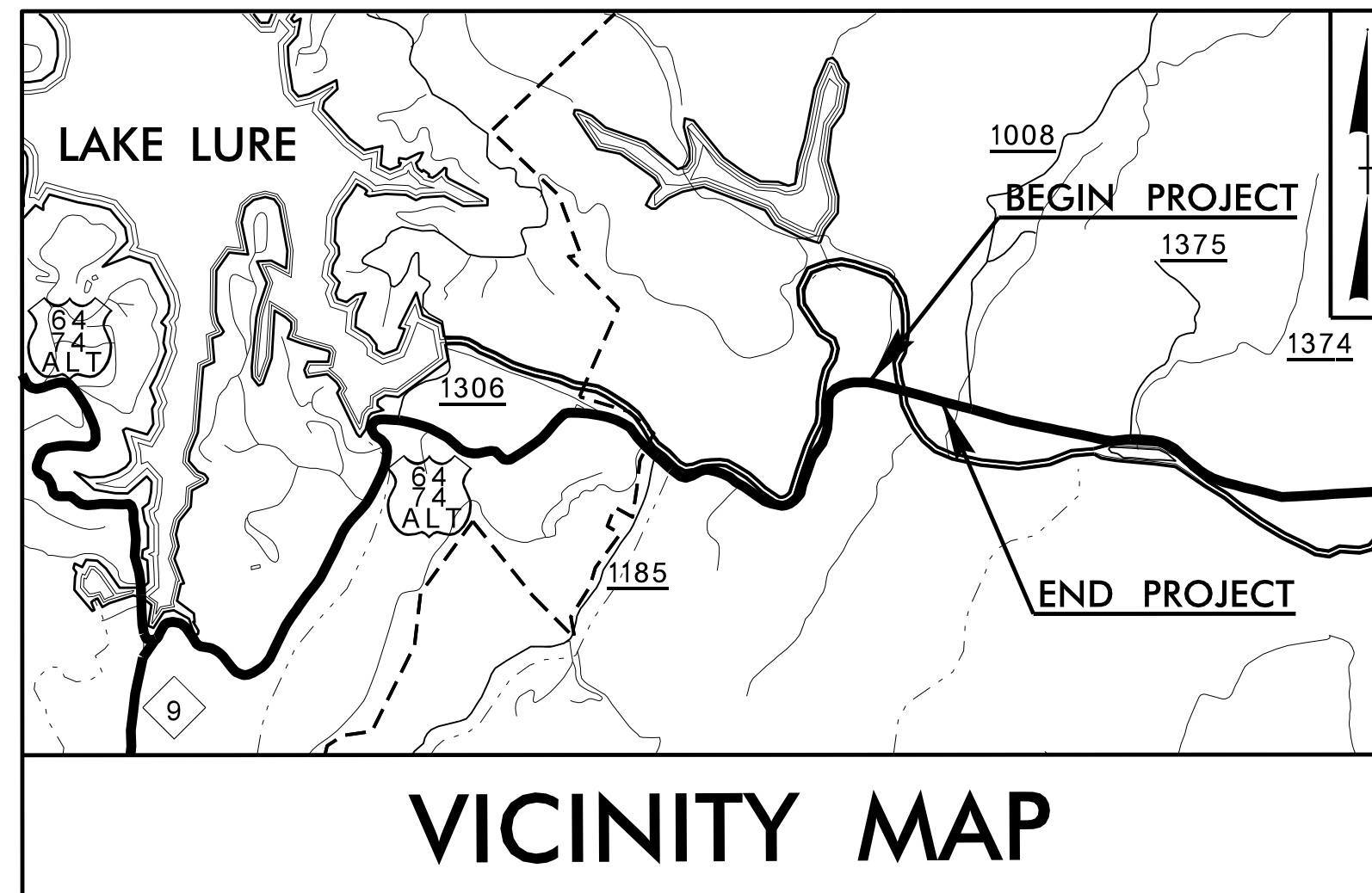
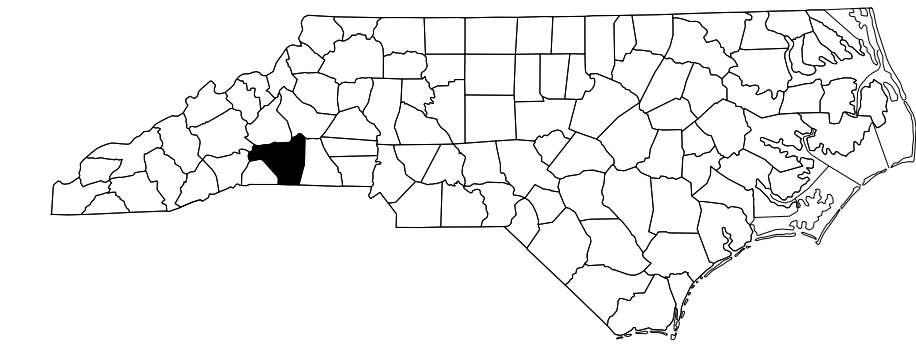
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Project: B-4811

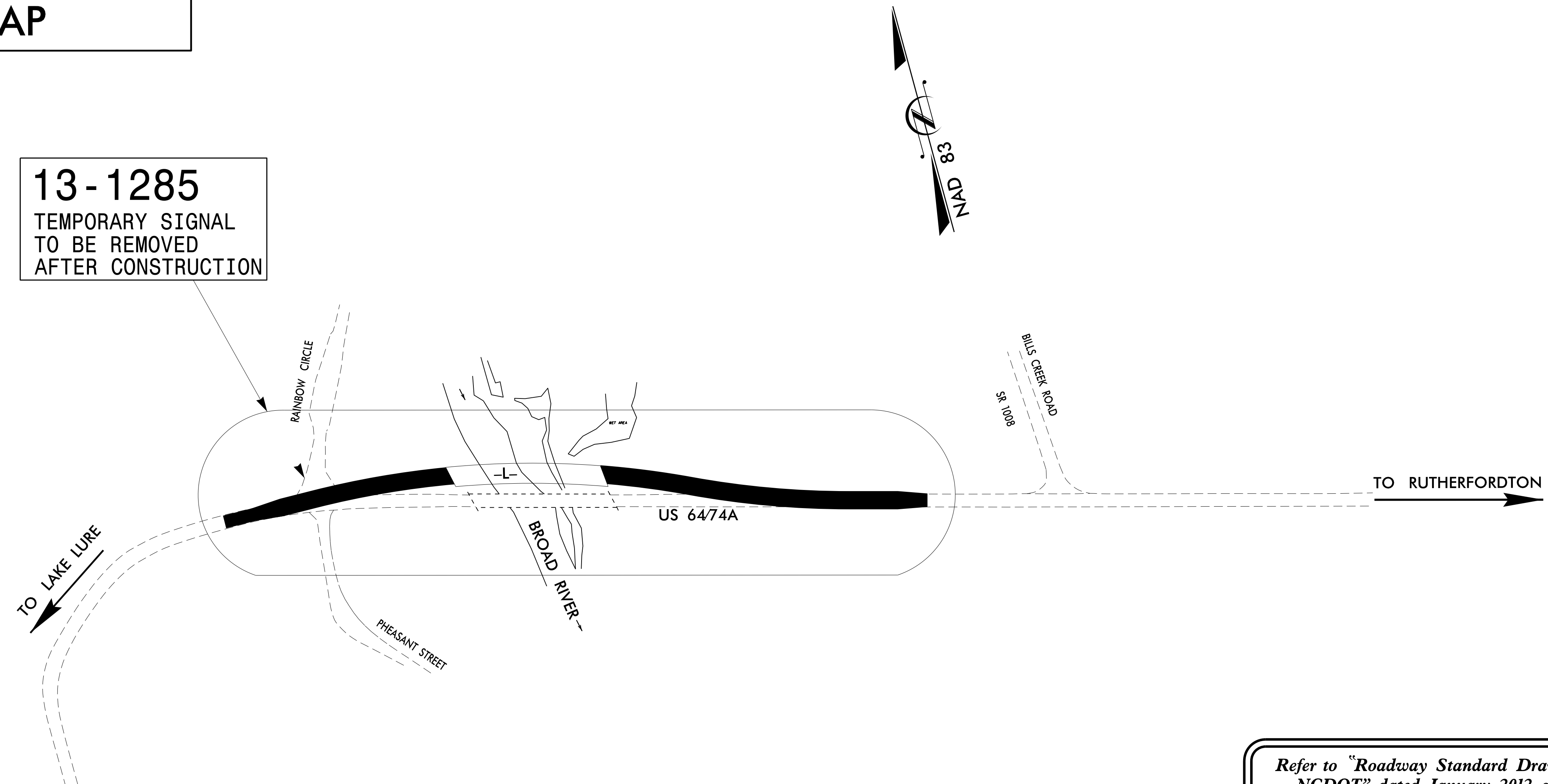
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

RUTHERFORD COUNTY

LOCATION: BRIDGE 87 OVER THE BROAD RIVER ON US 64
TYPE OF WORK: TRAFFIC SIGNAL INSTALLATION



13-1285
TEMPORARY SIGNAL
TO BE REMOVED
AFTER CONSTRUCTION



Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.

<i>Index of Plans</i>		
<i>Sheet #</i>	<i>Reference #</i>	<i>Location/Description</i>
Sig. 1.0	-----	<i>Title Sheet</i>
Sig. 2.0-2.1	13-1285 T	<i>US 64 /74A at Pheasant Street / Rainbow Circle</i>

INTELLIGENT TRANSPORTATION AND SIGNALS UNIT

Contacts:

Zachary M. Little, PE - Signals Project Engineer
George C. Brown, PE - Signal Equipment Design Engineer

Prepared In the Office of:
DIVISION OF HIGHWAYS
TRANSPORTATION MOBILITY AND SAFETY DIVISION

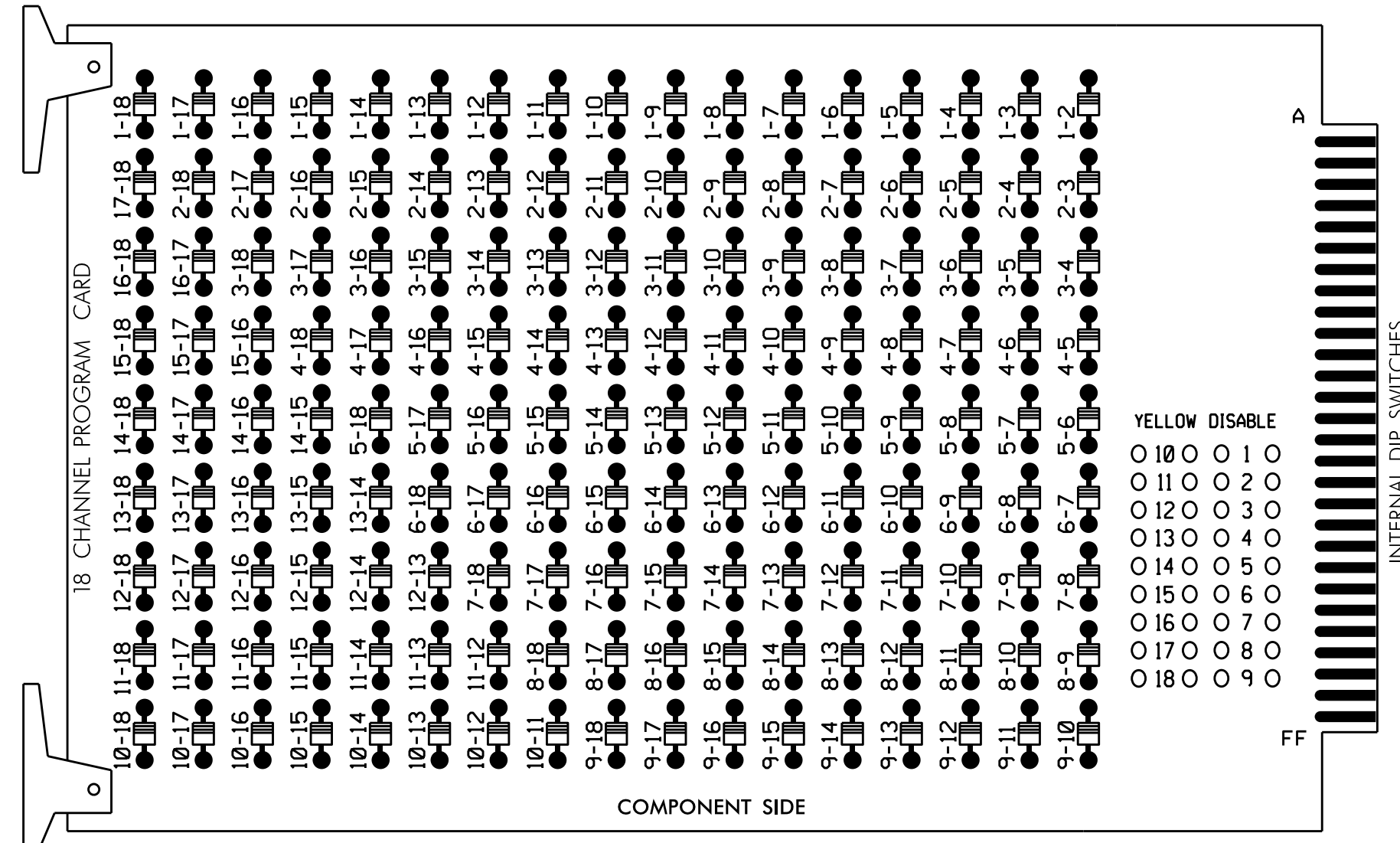
750 N. Greenfield Parkway, Garner, NC 27529

22-DEC-2015 16:23 P:\Projects\B-4811\Traffic\Signals\Titlesheet\131285_sig_tsh.dgn

**EDI MODEL 2018ECL-NC CONFLICT MONITOR
PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)

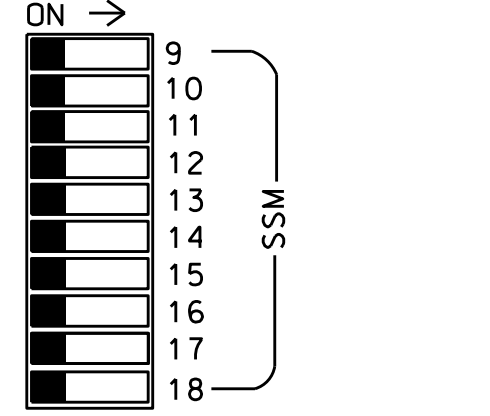
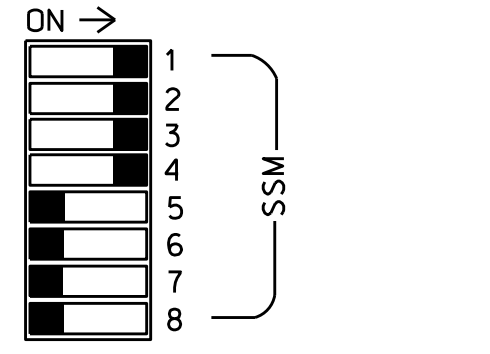
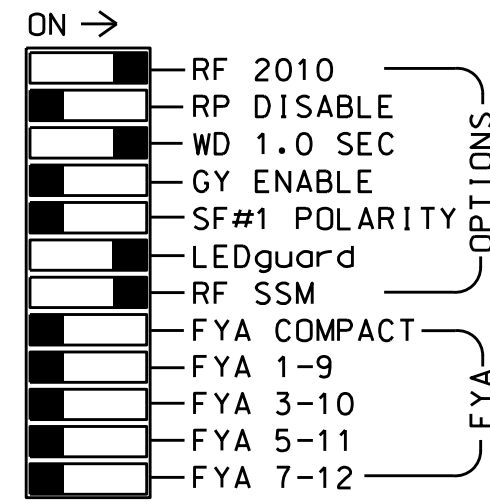
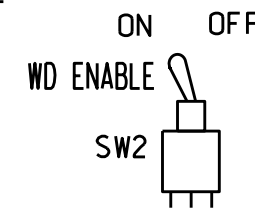
DO NOT REMOVE DIODE JUMPERS.



JUMPER AS SHOWN

NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that Red Enable is active at all times during normal operation.
4. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.



■ = DENOTES POSITION OF SWITCH

NOTES

1. 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.
2. Enable Simultaneous Gap-Out for all phases.
3. Program phases 1, 2, 3 and 4 for Red Rest.
4. Program phase 2 for Startup Red Clear.
5. Program phase 2 as First Phases.

EQUIPMENT INFORMATION

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

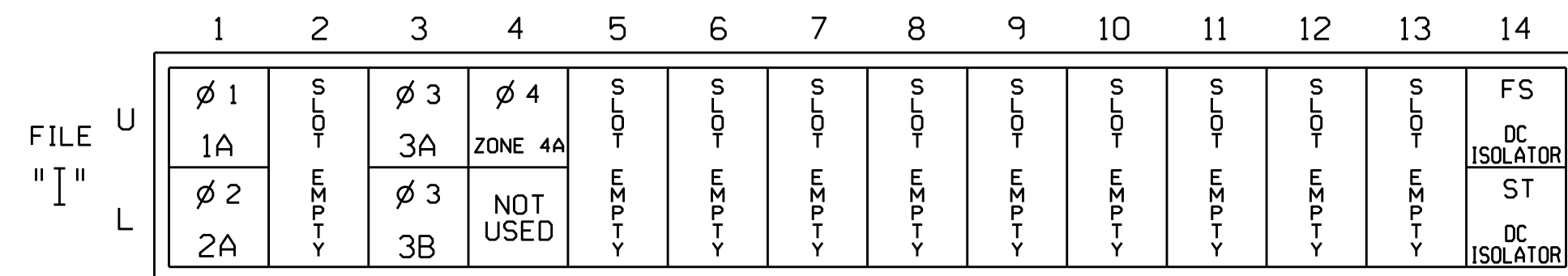
SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED
SIGNAL HEAD NO.	11,12	21,22	NU	31,32, 33,34	41,42	NU	NU	NU	NU	NU	NU	NU
RED	125	128		116	101							
YELLOW	126	129		117	102							
GREEN	127	130		118	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

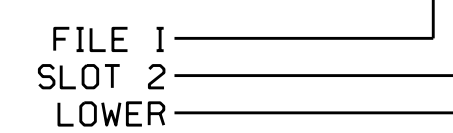
INPUT FILE CONNECTION & PROGRAMMING CHART

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
1A	TB21-1,2	I1U	56	18	1	1	Y	Y			
2A	TB23-1,2	I1L	47	9	22	2	Y	Y			
3A	TB21-5,6	I3U	58	20	3	3	Y	Y			3
3B	TB23-5,6	I3L	49	11	24	3	Y	Y			3
★ ZONE 4A	TB21-7,8	I4U	41	3	4	4	Y	Y			

★ SPECIAL DETECTOR NOTE

For Zone 4A install a microwave 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 Plan.

INPUT FILE POSITION LEGEND: I2L



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-1285T
 DESIGNED: December 2015
 SEALED: 12/17/2015
 REVISED: N/A

Electrical Detail - Temp

US 64 / 74A at Pheasant Street / Rainbow Circle

Division 13 Rutherford County Near Lake Lure

PLAN DATE: December 2015 REVIEWED BY: GCB

PREPARED BY: C. Strickland REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by: George C. Brown 12/22/2015

750 N. Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022013 GEORGE C. BROWN

SIG. INVENTORY NO. 13-1285T

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