

CHANNEL NUMBER	ENABLE/ DISABLE
1	ENABLE
2	ENABLE
3	ENABLE
4	ENABLE
5	ENABLE
6	ENABLE
7	ENABLE
8	ENABLE
9	ENABLE
10	ENABLE
11	ENABLE
12	ENABLE
13	ENABLE
14	ENABLE
15	ENABLE
16	ENABLE

FLASHING YELLOW ARROW	
CONFIG MODE	B
ENABLE CHANNEL PAIR, FYA	
CH 1-13	ON
CH 3-14	ON
CH 5-15	ON
CH 7-16	ON
RED/YEL INPUT ENABLE	
CH 1	ON
CH 3	ON
CH 5	ON
CH 7	ON
FLASH RATE FAULT	ON
FYA TRAP DETECT	ON

MMU PROGRAMMING NOTE
ENSURE YELLOW CHANGE PLUS RED CLEARANCE MONITORING
IS ENABLED FOR ALL CHANNELS.

INSERT DETECTOR CARDS IN RACK ACCORDING TO THE DETAIL SHOWN BELOW.
PARTICULAR DETECTOR CHANNELS WILL CALL PHASES INDICATED.

BIU	CH1 L3 ø 2 2A	CH1 L1 ø 1 1A	CH1 L7 ø 6 6A	CH1 L5 ø 4 4B	CH1 L11 ø 1 1B	CH1 L9 ø 3 3A	S L O T	CH1 L13 ø 7 7A	S L O T	S L O T	S L O T
	CH2 L4 ø 2 2B	CH2 L2 ø 5 5A	CH2 L8 ø 6 6B	CH2 L6 ø 5 5B	CH2 L12 ø 8 8B	CH2 L10 ø 8 8A		E M P T Y			

RACK
#1

WIRE LOOPS TO TERMINALS
ON LOOP PANEL AS SHOWN
IN THE CHART BELOW

LOOP NO.	LOOP PANEL TERMINALS
1A	L1A, L1B
5A	L2A, L2B
2A	L3A, L3B
2B	L4A, L4B
4B	L5A, L5B
5B	L6A, L6B
6A	L7A, L7B
6B	L8A, L8B
3A	L9A, L9B
10A	L10A, L10B
1B	L11A, L11B
8B	L12A, L12B
7A	L13A, L13B
4A	L14A, L14B
NU	L15A, L15B
NU	L16A, L16B

BE SURE TO PROGRAM
DETECTOR TYPES AND
TIMERS (EXTEND AND
DELAY) AS SHOWN ON
THE SIGNAL PLANS.

PROGRAM CONTROLLER DETECTORS
ACCORDING TO THE SCHEDULE
SHOWN IN THE CHART BELOW

CONTROLLER DETECTOR NO.	FUNCTION	TIMING	
		FEATURE	TIME (SEC.)
1	Ø 1	DELAY	15
2	Ø 5	DELAY	15
3	Ø 2		
4	Ø 2		
5	Ø 4		
6	Ø 5	DELAY	15
7	Ø 6		
8	Ø 6		
9	Ø 3	DELAY	15
10	Ø 8		
11	Ø 1	DELAY	15
12	Ø 8		
13	Ø 7	DELAY	15
14	Ø 4		
15			
16			

★	△* 61	∅ 6	DELAY	3
	△ 62	∅ 8	DELAY	3
★	△* 63	∅ 2	DELAY	3
	△ 64	∅ 4	DELAY	3

* Detector Type - G

$\triangle$ Logical Detector (see logical detector programming on sheet 3)

★ TOD Detector Programming

1. To prevent "flash-conflict" problems, wire all load switches to flash red. Verify that signal heads flash in accordance with the signal plans.
2. There are no unused monitor channels; ensure all flash transfer relays are in place.
3. Program controller to start up in phase 2 Green and 6 Green.
4. Set power-up flash time to 10 seconds and implement on the Malfunction Management Unit. Set controller power-up flash time to 0 seconds.
5. Enable simultaneous gap-out feature for all phases.
6. Program detectors in accordance with the manufacturer's instructions to accomplish the detection schemes shown on the signal design plans.
7. Program detector call delay and extension timing on the controller, unless otherwise specified.
8. Set all detector card unit channels to "presence" mode.
9. Program phases 2 and 6 for volume density operation.
10. Program phases 4 and 8 for dual entry.
11. The cabinet and controller are a part of the Cary Signal System.

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CONTROLLER.....2070L XN2
CABINET .....TS-2
SOFTWARE .....ECONOLITE ASC/3-2070
CABINET MOUNT.....BASE
LOADBAY POSITIONS.....16
LOAD SWITCHES USED.....1,2,3,4,5,6,7,8,9,
                        10,11,12,13,14,15,16
PHASES USED.....1,2,2 PED,3,4,4 PED,
                        5,6,6 PED,7,8,8 PED
QLA.....*
QLB.....*
QLC.....*
QLD.....*

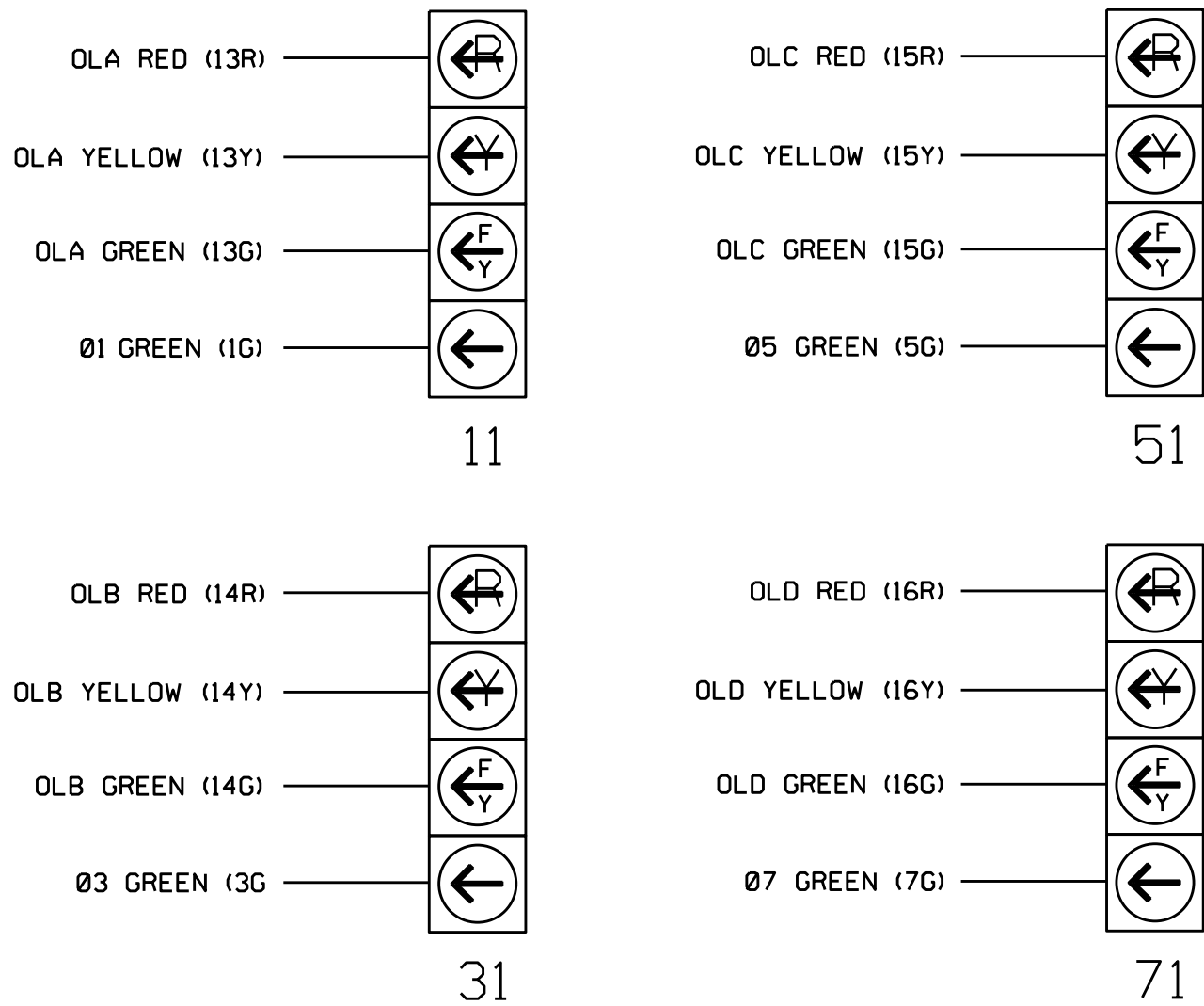
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* See overlap programming detail on Sheet 2.

(program controller according to
schedule in chart below)

LOAD SWITCH NUMBER	FUNCTION
1	Ø 1
2	Ø 2
3	Ø 3
4	Ø 4
5	Ø 5
6	Ø 6
7	Ø 7
8	Ø 8
9	Ø 2 PED
10	Ø 4 PED
11	Ø 6 PED
12	Ø 8 PED
13	OLA
14	OLB
15	OLC
16	OLD

(wire signal heads as shown)

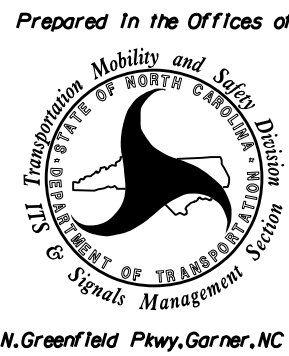


THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 05-1242
DESIGNED: October 2025
SEALED: 10/28/2025
REVISED: N/A

Electrical Detail - Sheet 1 of 4

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

ELECTRICAL AND PROGRAMMING
DETAILS FOR:



SR 3126 (Airport Boulevard)
at
Town Hall Drive

Division 5 Wake County Morrisville

PLAN DATE: October 2025	REVIEWED BY:
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PREPARED BY: S. Kirkpatrick	REVIEWED BY:
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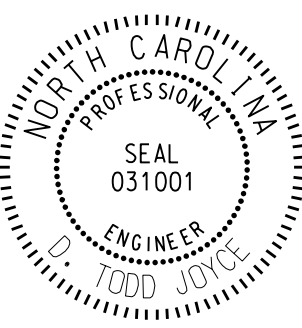
REVISIONS	INIT.	DATE
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**DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED**

SEAL



DocuSigned by:
D. D. L. 10/28/2025

V. Todd Joyce 10/20/2023
DATE

SIG. INVENTORY NO. 05-1242