STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

Project No.	Sheet No.
52073.10.8	Sig. 1.0

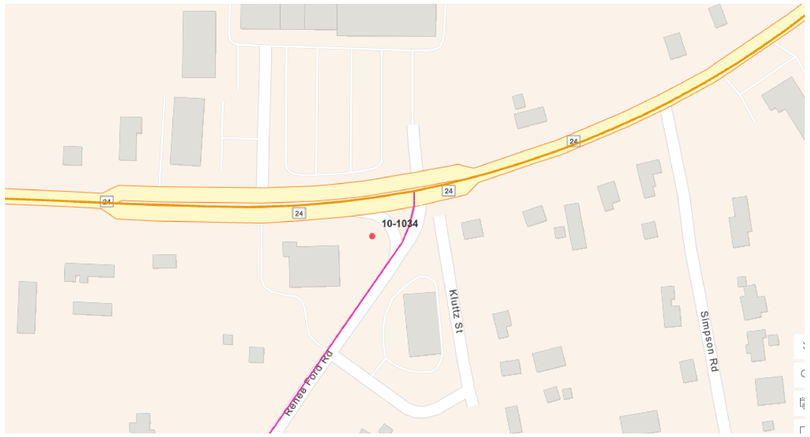
Project: 52073.10.8

Vicinity



LOCATION: NC 24 / 27 (West Main Street)
at
SR 1140 (Renee Ford Road) /
Shopping Center Driveway

TYPE OF WORK: Signal



Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.

Index of Plans

Sheet #	Reference #	Location/Description
Sig. 1.0	--------	Title Sheet
Sig. 2.0-2.3	10-1034	NC 24 / 27 (West Main Street) at SR 1140 (Renee Ford Road) / Shopping Center Driveway

TRANSPORTATION SYSTEMS
MANAGEMENT & OPERATIONS

Contacts:

Bailey Harden, PE - Western Region Signals Engineer
Keith Mims, PE - Signal Equipment Design Engineer

AECOM

Contacts:

X. George Han, PE - Lead Traffic Signal Engineer

Prepared for the Office of:
DIVISION OF HIGHWAYS
TRANSPORTATION MOBILITY & SAFETY DIVISION

TSMO Unit

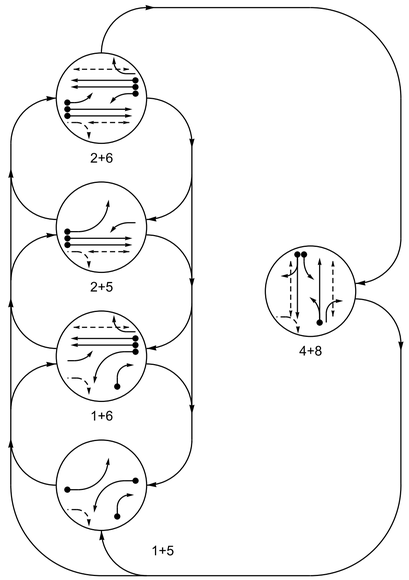
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PROJECT REFERENCE NO.	SHEET NO.
52073.10.8	Sig.2.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

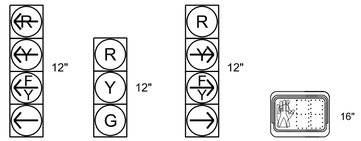
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 1+5	1+6	2+5	2+6	4+8	FLASH
11	←	←	F Y	F Y	~~R~~	~~R~~
21,22	R	R	G	G	R	R
41,42	R	R	R	R	G	R
51	←	F Y	←	F Y	~~R~~	~~R~~
61,62	R	G	R	G	R	R
81,82	R	R	R	R	G	R
83	→	→	R	R	F Y	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



11
51

21,22
41,42
61,62
81, 82

83

P21,P22
P41,P42
P61,P62
P81,P82

MAXTIME DETECTOR INSTALLATION CHART

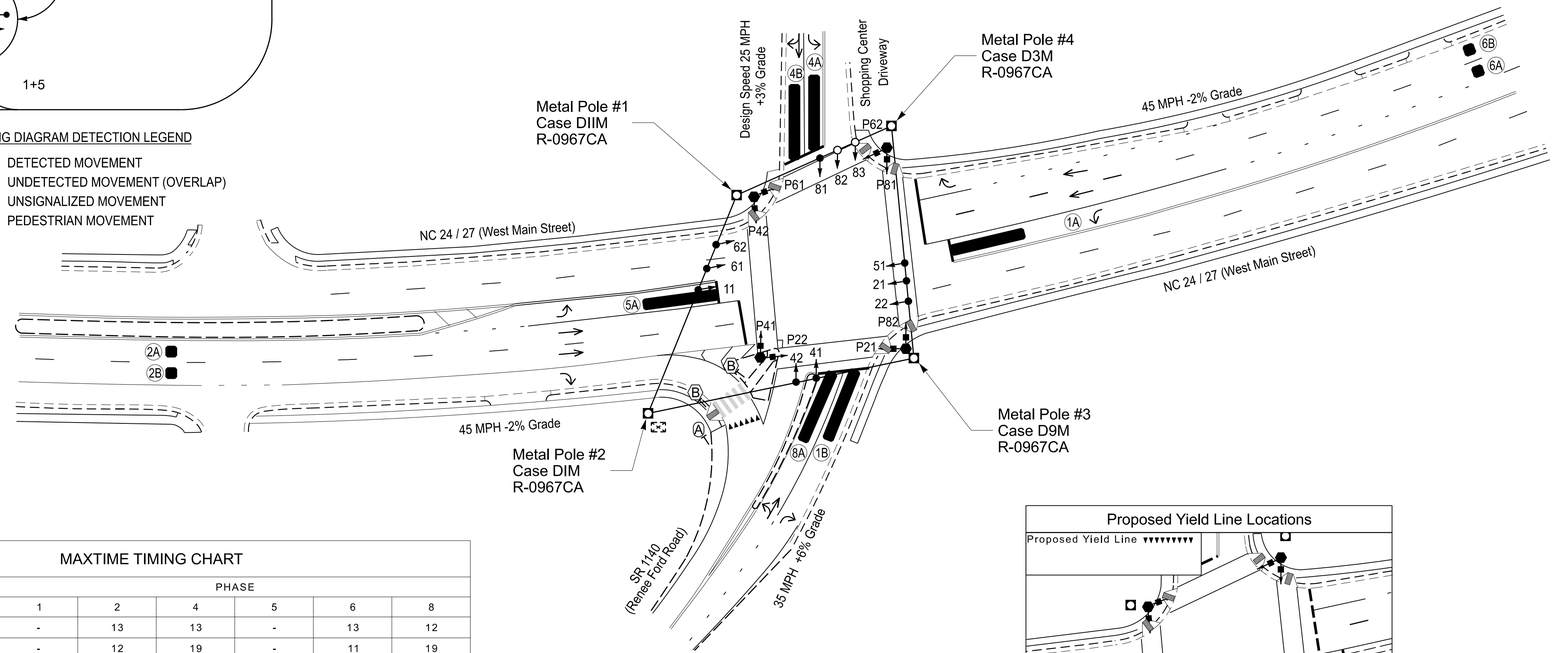
DETECTOR LOOP	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	PROGRAMMING CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL DELAY DURING GREEN	NEW CARD
1A	6X60	0	*	*	1	15.0	-	X	-	X	-	*
					6	3.0	-	X	-	X	X	*
1B	6X60	0	*	*	1	15.0	-	X	-	X	-	*
2A	6X6	300	*	*	2	-	-	X	X	X	-	*
2B	6X6	300	*	*	2	-	-	X	X	X	-	*
5A	6X60	0	*	*	5	15.0	-	X	-	X	-	*
					2	3.0	-	X	-	X	X	*
4A	6X40	0	*	*	4	3.0	-	X	-	X	-	*
4B	6X40	0	*	*	4	10.0	-	X	-	X	-	*
6A	6X6	300	*	*	6	-	-	X	X	X	-	*
6B	6X6	300	*	*	6	-	-	X	X	X	-	*
8A	6X60	0	*	*	8	-	-	X	-	X	-	*

*Multi-zone microwave detection

5 Phase
Fully Actuated
Isolated

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024, and all applicable sections of the latest version of the generic Project Special Provisions. The PSP can be accessed at the following website: https://connect.ncdot.gov/resources/safety/Pages/TSMO-Design-Resources.aspx
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Set all detector units to presence mode.
5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
7. To provide a leading pedestrian interval on phase 2, program FYA head numbered 11 to delay for 6 seconds after the start of the phase 2 walk interval. See Electrical Details for programming.
8. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.

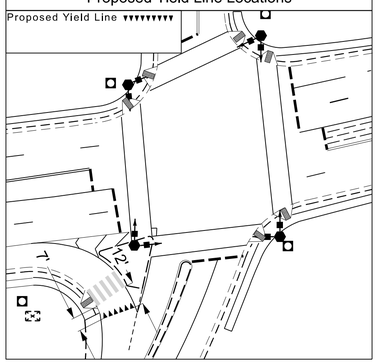


MAXTIME TIMING CHART

FEATURE	PHASE 1	2	4	5	6	8
Walk *	-	13	13	-	13	12
Ped Clear	-	12	19	-	11	19
Min Green *	7	12	7	7	12	7
Passage *	1.0	6.0	2.0	1.0	6.0	2.0
Max 1 *	25	90	25	25	90	25
Yellow Change	3.0	4.7	3.5	3.0	4.7	3.5
Red Clear	3.1	1.4	2.8	2.9	1.4	2.8
Added Initial *	-	1.5	-	-	1.5	-
Maximum Initial *	-	34	-	-	34	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	30	-	-	30	-
Minimum Gap	-	3.0	-	-	3.0	-
Advance Walk	-	6 #	6	-	6	5
Non Lock Detector	X	-	X	X	-	X
Vehicle Recall	-	MIN RECALL	-	-	MIN RECALL	-
Dual Entry	-	-	X	-	-	X
Simultaneous Start **	-	-	X	-	-	X

* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.
** Program phases 4 and 8 for Simultaneous Start for LPI.
# See Note 7.

Proposed Yield Line Locations



LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	Sign	⊣
⊣□→	Pedestrian Signal Head With Push Button and Sign	■
○	Signal Pole with Guy	●◗
○	Signal Pole with Sidewalk Guy	●
▭	Inductive Loop Detector	▭
⊠	Controller & Cabinet	⊠
□	Junction Box	■
—·· X-UC ··—	2-in Underground Conduit	—·· UC ··—
N/A	Right of Way	———
→	Directional Arrow	→
⬡	Type II Signal Pedestal	⬢
◎	Metal Strain Pole	◘
N/A	Curb Ramp	◢
Ⓐ	"YIELD" Sign (R1-2)	Ⓐ
Ⓑ	Pedestrian Crossing Sign (W11-2) w/ Downward Diagonal Arrow Plaque (W16-7p)	Ⓑ
▬	Non-Intrusive Detection Zone	▬

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Phone: 919-461-1100

Signal Upgrade

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Prepared for the Offices of:
Traffic Engineering Branch — Signal Design Section — Transportation Mobility and Safety Division — NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
750 N. Greenfield Pkwy, Garner, NC 27529

NC 24 / 27 (West Main Street)
at
SR 1140 (Renee Ford Road) /
Shopping Center Driveway

Division 10 | Stanly County | Locust

PLAN DATE:	June 2026	REVIEWED BY:	R. Garrett
PREPARED BY:	X. Han	REVIEWED BY:	

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 056268 ENGINEER XIUDONG HAN

Signed by: 6/3/2026
DATE
SIG. INVENTORY NO. 10-1034

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Xiudong Han

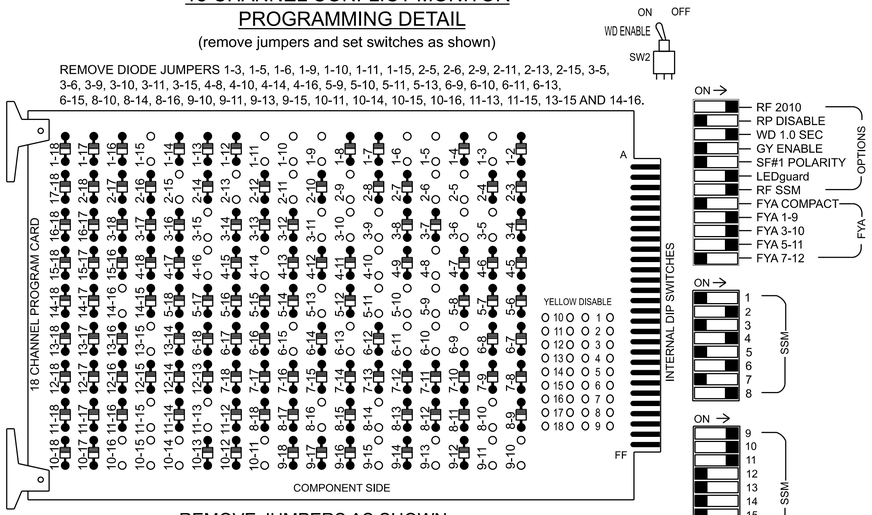
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PROJECT REFERENCE NO.	SHEET NO.
52073.10.8	Sig. 2.1

18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-3, 1-5, 1-6, 1-9, 1-10, 1-11, 1-15, 2-5, 2-6, 2-9, 2-11, 2-13, 2-15, 3-5, 3-6, 3-9, 3-10, 3-11, 3-15, 4-8, 4-10, 4-14, 4-16, 5-9, 5-10, 5-11, 5-13, 6-9, 6-10, 6-11, 6-13, 6-15, 8-10, 8-14, 8-16, 9-10, 9-11, 9-13, 9-15, 10-11, 10-14, 10-15, 10-16, 11-13, 11-15, 13-15 AND 14-16.



REMOVE JUMPERS 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 the 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 vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the signal plan.
2. Program phases 4 and 8 for Dual Entry.
3. Program phases 4 and 8 for Simultaneous Start.
4. Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
5. If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.

EQUIPMENT INFORMATION

Controller.....2070LX
Cabinet.....332 w/ Aux
Software.....Q-Free MAXTIME
Cabinet Mount.....Base
Output File Positions.....18 With Aux. Output File
Load Switches Used.....S1, S2, S3, S4, S5, S6, S7, S8, S9, S11, S12, AUX S1, AUX S2, AUX S4
Phases Used.....1, 2, 2PED, 4, 4PED, 5, 6, 6PED, 8, 8PED
Overlap "1".....*
Overlap "2".....*
Overlap "3".....*
Overlap "4".....Not Used
Overlap "7".....*

*See overlap programming detail on sheet 2

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	2 PED	OL7	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	11★	21,22	P21, P22	83★	41,42	P41, P42	51★	61,62	P61, P62	NU	81,82	P81, P82	11★	83★	NU	51★	NU	NU
RED		128			101			134			107			A124				
YELLOW	*	129		*	102		*	135			108							
GREEN		130			103			136			109							
RED ARROW													A121			A114		
YELLOW ARROW													A122	A125		A115		
FLASHING YELLOW ARROW													A123	A126		A116		
GREEN ARROW	127			118			133											
✋			113			104			119			110						
🚶			115			106			121			112						

NU = Not Used
*Denotes install load resistor. See load resistor installation detail on sheet 2.
★See pictorial of head wiring in detail on sheet 2.

SPECIAL DETECTION IO MODULE PROGRAMMING

The Enhanced Out of Pavement Detection requires adjustments to the IO Modules in use. Follow the programming instructions below to ensure desired operation.

Front Panel
Main Menu >Controller >More >Advanced IO >IO Modules

Web Interface
Home >Controller >Advanced IO >Cabinet Configuration >IO Modules

IO Module	Type	Fault Response
1	Caltrans 332	Default
2	TS2 DR3 BIU	Default
3	TS2 DR4 BIU	Default
4	TS2 MMU	Default

Advanced Cabinet Options
☑ Disable TS2 Cabinet Alarms

INPUT FILE POSITION LAYOUT

(front view)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	U	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	Ø2 PED DC ISOLATOR	Ø6 PED DC ISOLATOR	FS DC ISOLATOR
	L												Ø4 PED DC ISOLATOR	Ø8 PED DC ISOLATOR	ST DC ISOLATOR
FILE "J"	U	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY
	L														

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 POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
1A	-	-	-	*	33	1	15.0		X		X	
				-	125	6	3.0		X		X	X
1B	-	-	-	*	49	1	15.0		X		X	
2A	-	-	-	*	38	2			X	X	X	
2B	-	-	-	*	39	2			X	X	X	
4A	-	-	-	*	44	4	3.0		X		X	
4B	-	-	-	*	45	4	10.0		X		X	
5A	-	-	-	*	35	5	15.0		X		X	
				-	127	2	3.0		X		X	X
6A	-	-	-	*	54	6			X	X	X	
6B	-	-	-	*	55	6			X	X	X	
8A	-	-	-	*	60	8			X		X	
PED PUSH BUTTONS												
P21,P22	TB8-4,6	I12U	67	33	2	PED 2						
P41,P42	TB8-5,6	I12L	69	35	4	PED 4						
P61,P62	TB8-7,9	I13U	68	34	6	PED 6						
P81,P82	TB8-8,9	I13L	70	36	8	PED 8						

NOTE: INSTALL DC ISOLATORS IN INPUT FILE SLOTS I12 AND I13.

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

*For Input Point numbers, see SDLC Non-Intrusive Detection Chart detail on this sheet.

SDLC NON-INTRUSIVE DETECTION CHART

	DETECTOR RACK #3		DETECTOR RACK #4	
Input Point	Det # (Index)	Detector Zone	Det # (Index)	Detector Zone
1	33	1A	49	1B
2	34	NU	50	NU
3	35	5A	51	NU
4	36	NU	52	NU
5	37	NU	53	NU
6	38	2A	54	6A
7	39	2B	55	6B
8	40	NU	56	NU
9	41	NU	57	NU
10	42	NU	58	NU
11	43	NU	59	NU
12	44	4A	60	8A
13	45	4B	61	NU
14	46	NU	62	NU
15	47	NU	63	NU
16	48	NU	64	NU

NU = Not Used

SPECIAL DETECTOR NOTE

For all zones, install a multizone 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 Plans.

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5438 Wade Park Boulevard
Suite 200, Raleigh, NC 27607
Phone: 919-461-1100

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 10-1034
DESIGNED: June 2026
SEALED: 06/03/2026
REVISED: N/A

Electrical Detail - Sheet 1 of 3

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Electrical and Programming Details For:

Prepared for the Offices of:
Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING BRANCH
Traffic & Signals Management Section
750 N. Greenfield Pkwy, Garner, NC 27529

NC 24 / 27 (West Main Street)
at
SR 1140 (Renee Ford Road) /
Shopping Center Driveway

Division 10 | Stanly County | Locust

PLAN DATE:	May 2026	REVIEWED BY:	J O Deaton
PREPARED BY:	M W Yalch	REVIEWED BY:	

REVISIONS	INIT.	DATE

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NORTH CAROLINA PROFESSIONAL SEAL 07438 ENGINEER JAMES O. DEATON

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PROJECT REFERENCE NO.	SHEET NO.
52073.10.8	Sig. 2.2

LOGIC PROCESSOR PROGRAMMING

Front Panel
Main Menu >Controller >More >User Programs >Definition

Web Interface
Home >Controller >User Programs Configuration >User Programs Definition

Program 1

Statement	Result	Index	Operation	Parameter A	Index	Parameter B	Index	Delay	Ext
1	Veh Detector Call	125	Is Module A Input B ON	Number	2	Number	1	0.0	0.0
2	Veh Detector Call	127	Is Module A Input B ON	Number	2	Number	3	0.0	0.0

LOGIC STATEMENT DESCRIPTION

Statement 1 Description: Mirrors vehicle detector 33 to vehicle detector 125

Statement 2 Description: Mirrors vehicle detector 35 to vehicle detector 127

OVERLAP PROGRAMMING

Front Panel
Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface
Home >Controller >Overlap Configuration >Overlaps

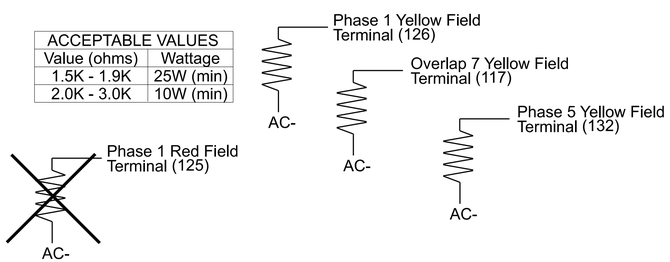
Overlap Plan 1

Overlap	1	2	3	4	7
Type	FYA 4 - Section	FYA 4 - Section	FYA 4 - Section	Off	Normal
Included Phases	2	8	6	-	1
Modifier Phases	1	1	5	-	-
Modifier Overlaps	-	-	-	-	-
Trail Green	0	0	0	0	0
Trail Yellow	0.0	0.0	0.0	0.0	0.0
Trail Red	0.0	0.0	0.0	0.0	0.0
FYA Ped Delay	6.0	0.0	0.0	0.0	0.0

LOAD RESISTOR INSTALLATION DETAIL

(install and remove resistors as shown)

ACCEPTABLE VALUES	
Value (ohms)	Wattage
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



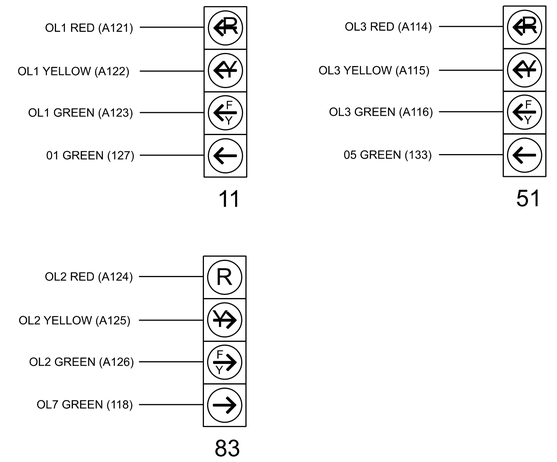
COUNTDOWN PEDESTRIAN SIGNAL OPERATION

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.

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Suite 200, Raleigh, NC 27607
Phone: 919-461-1100

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



MAXTIME STARTUP AND SOFTWARE FLASH PROGRAMMING DETAIL

Front Panel
Main Menu >Controller >Unit

Web Interface
Home >Controller >Unit

Modify parameters as shown below and save changes.

Start Up Parameters

StartUp Clearance Hold
6

Unit Flash Parameters

All Red Flash Exit Time
6

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 10-1034
DESIGNED: June 2026
SEALED: 06/03/2026
REVISED: N/A

Electrical Detail - Sheet 2 of 3

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Electrical and Programming Details For:

Prepared for the Offices of:
Traffic Engineering Branch
Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Traffic Signal Management Section

750 N. Greenfield Pkwy, Garner, NC 27529

NC 24 / 27 (West Main Street)
at
SR 1140 (Renee Ford Road) / Shopping Center Driveway

Division 10 | Stanly County | Locust

PLAN DATE:	May 2026	REVIEWED BY:	J O Deaton
PREPARED BY:	M W Yalch	REVIEWED BY:	

REVISIONS	INIT.	DATE

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NORTH CAROLINA PROFESSIONAL SEAL 07438 ENGINEER JAMES O. DEATON

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James O. Deaton
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6/4/2026
DATE

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PROJECT REFERENCE NO.	SHEET NO.
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OUTPUT CHANNEL CONFIGURATION

Front Panel
Main Menu >Controller >More>Channels>Channels Config

Web Interface
Home >Controller >Advanced IO>Channels>Channel Configuration

Channel Configuration

NOTICE OVERLAP 7 ASSIGNED TO CHANNEL 3 →

Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	MMU Channel
1	Phase Vehicle	1		X	X	1
2	Phase Vehicle	2		X		2
3	Overlap	7		X	X	3
4	Phase Vehicle	4		X		4
5	Phase Vehicle	5		X		5
6	Phase Vehicle	6		X	X	6
7	Phase Vehicle	7		X		7
8	Phase Vehicle	8		X	X	8
9	Overlap	1		X	X	9
10	Overlap	2		X	X	10
11	Overlap	3		X		11
12	Overlap	4		X		12
13	Phase Ped	2				13
14	Phase Ped	4				14
15	Phase Ped	6				15
16	Phase Ped	8				16
17	Overlap	5		X	X	17
18	Overlap	6		X		18

FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO ENSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

1. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
2. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
3. REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 10-1034
DESIGNED: June 2026
SEALED: 06/03/2026
REVISED: N/A

AECOM
NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200, Raleigh, NC 27607
Phone: 919-461-1100

Electrical Detail - Sheet 3 of 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Electrical and Programming Details For:

Prepared for the Offices of:
Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Traffic Engineering Branch & Signals Management Section
750 N. Greenfield Pkwy, Garner, NC 27529

NC 24 / 27 (West Main Street)
at
SR 1140 (Renee Ford Road) / Shopping Center Driveway

Division 10 | Stanly County | Locust

PLAN DATE:	May 2026	REVIEWED BY:	J O Deaton
PREPARED BY:	M W Yalch	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 07438 ENGINEER JAMES O. DEATON

DocuSigned by: James O. Deaton 6/4/2026
AECFAC4A9D9A4DF... DATE

SIG. INVENTORY NO. 10-1034

15-OCT-2026 16:10
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