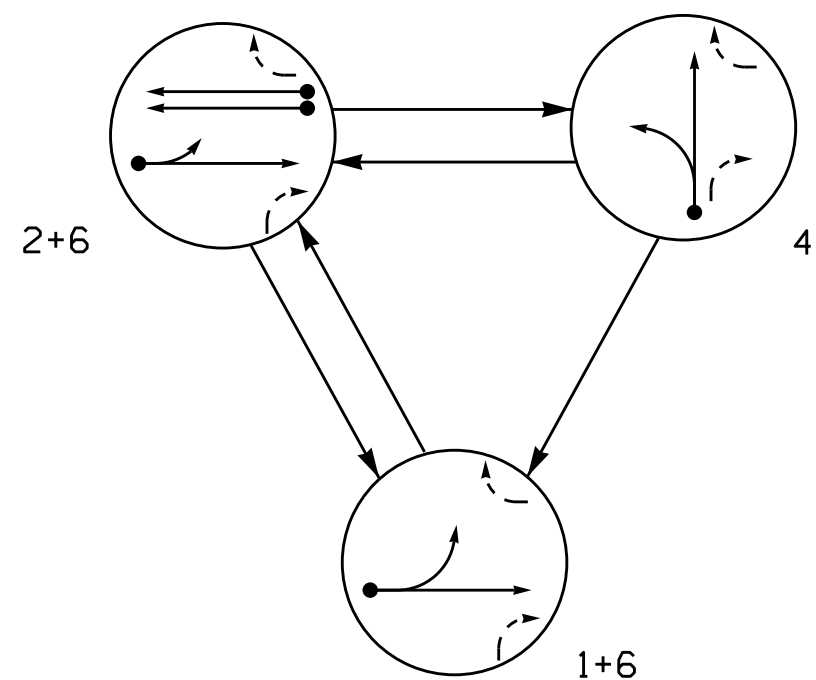


PHASING DIAGRAM



SIGNAL FACE	PHASE			
	1 + 6	2 + 4	FLASH	
21	R	↑	R	R
22	R	G	R	R
41, 42	R	G	G	R
61	⬅	G	R	R
62	↑	↑	R	R

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART													
INDUCTIVE LOOPS					DETECTOR PROGRAMMING								
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURN	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD	
1A*	6X15	50	*	Y	1	Y	Y	-	-	15	-	*	
2A*	6X6	200	*	-	2	Y	Y	-	-	-	-	*	
2B*	6X6	200	*	-	2	Y	Y	-	-	-	-	*	
4A*	6X40	0	*	Y	4	Y	Y	-	-	-	-	*	
6A*	6X6	200	*	Y	6	Y	Y	-	-	-	-	*	

* Non-Intrusive detection zone.

3 Phase Fully Actuated (Winston-Salem Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Disconnect and bag existing signal head 11.
- Reconnect existing signal heads 41 and 42.
- Reposition existing signal head 62.
- Phase 1 may be lagged.
- Set all detector units to presence mode.
- This intersection uses non-intrusive detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND

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

SR 4325 (Thomasville Rd.)

35 MPH -1% Grade

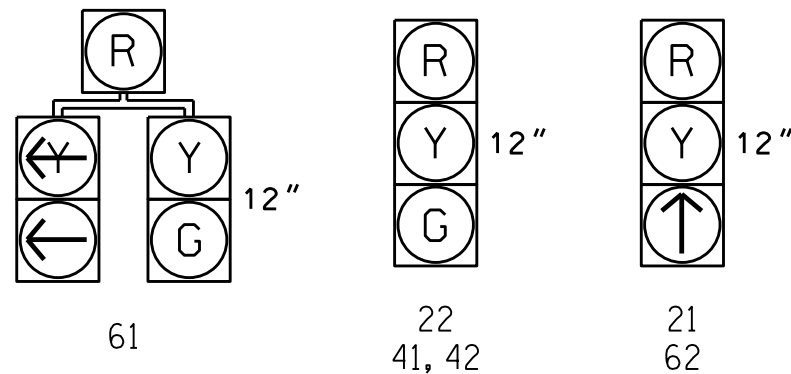
NC 109 (Thomasville Rd.)

I-40 EB Ramp

35 MPH +2% Grade

SIGNAL FACE I.D.

All Heads L.E.D.



OASIS 2070 TIMING CHART

FEATURE	PHASE			
	1	2	4	6
Min Green 1 *	7	10	7	10
Extension 1 *	2.0	5.0	2.0	5.0
Max Green 1 *	15	45	25	45
Yellow Clearance	3.0	4.0	3.7	4.0
Red Clearance	2.9	2.2	1.9	2.2
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	1.5	-	2.5
Max Variable Initial *	-	24	-	24
Time Before Reduction *	-	15	-	15
Time To Reduce *	-	15	-	15
Minimum Gap	-	3.0	-	3.0
Recall Mode	-	MIN RECALL	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

LEGEND

- | PROPOSED | EXISTING |
|--|----------|
| Traffic Signal Head | N/A |
| Modified Signal Head | N/A |
| Sign | N/A |
| Pedestrian Signal Head With Push Button & Sign | N/A |
| Signal Pole with Guy | N/A |
| Signal Pole with Sidewalk Guy | N/A |
| Inductive Loop Detector | N/A |
| Controller & Cabinet | N/A |
| Junction Box | N/A |
| 2-in Underground Conduit | N/A |
| Right of Way | N/A |
| Directional Arrow | N/A |
| Guardrail | N/A |
| Construction Zone | N/A |
| Construction Zone Drums | N/A |
| Non-Intrusive Detection Zone | N/A |
| "YIELD" Sign (R1-2) | N/A |
| No Right Turn Sign (R3-1) | N/A |
| No U-Turn/No Left Turn Sign (R3-18) | N/A |

Signal Upgrade - Temporary Design 3 (TMP Plan III)

Prepared in the Offices of:

Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section

750 N. Greenfield Pkwy, Garner, NC 27529

NC 109/SR 4325 (Thomasville Road) at I-40 EB Ramps

Division 9 Forsyth County Winston-Salem

PLAN DATE: September 2024 REVIEWED BY:

PREPARED BY: J.A. Lohr REVIEWED BY:

REVISIONS	INIT.	DATE

0 SCALE 20 1"=20'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 026486
ROBERT J. ZIMMERMAN

DocuSigned by: Robert J. Zimmerman
01/02/2025
DATE

SIG. INVENTORY NO. 09-060073