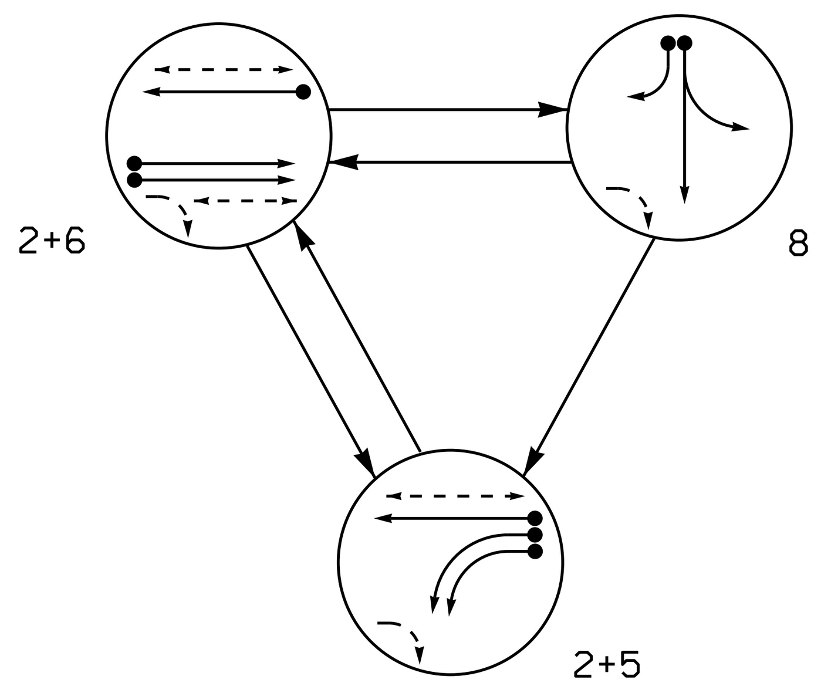
PROJECT REFERENCE NO.	SHEET NO.
I-5880	Sig 13.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

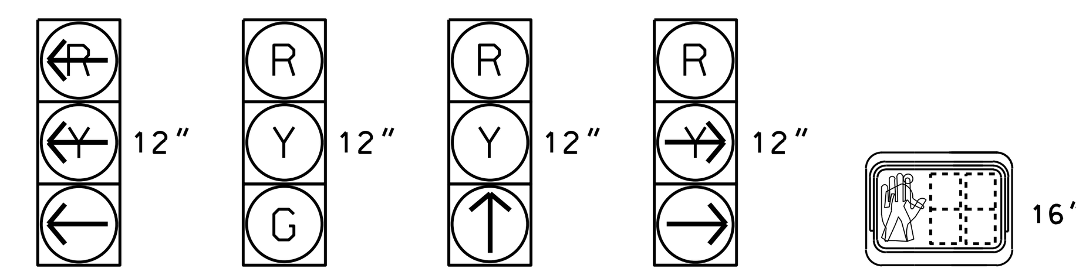
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 2+5	PHASE 2+6	PHASE 8	PHASE FLASH
21	G	G	R	R
22	↑	↑	R	R
51, 52	←	←	←R (flashing)	←R (flashing)
61, 62	R	↑	R	R
81, 82	R	R	G	R
83	R	R	→	R
P21, P22	W	W	DW	DRK
P61, P62	DW	W	DW	DRK

SIGNAL FACE I.D.

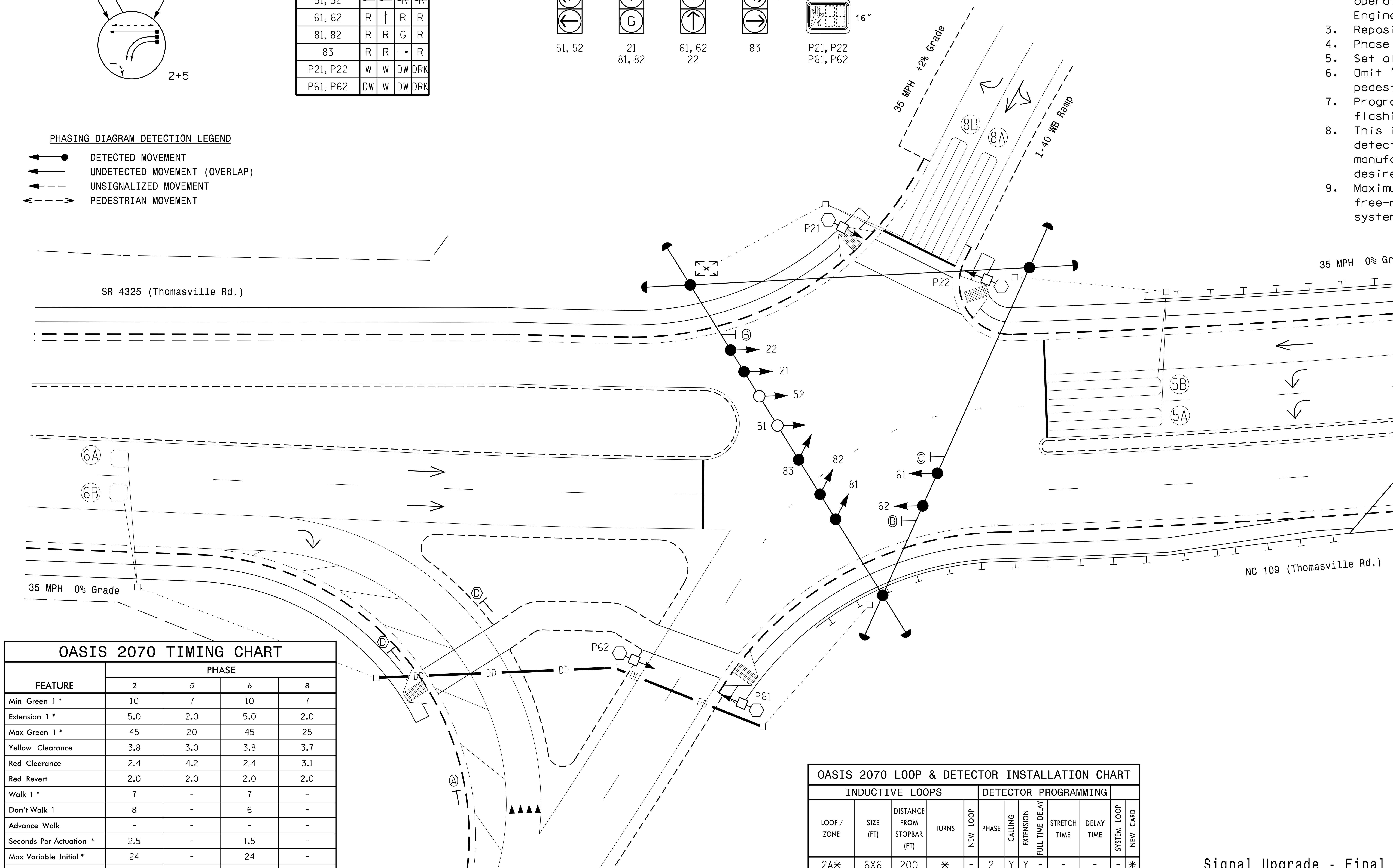
All Heads L.E.D.



3 Phase
Fully Actuated
(Winston-Salem Signal System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Reposition existing signal heads 61 and 62.
4. Phase 5 may be lagged.
5. Set all detector units to presence mode.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. This intersection uses non-intrusive detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
DD	Directional Drill	N/A
	Non-Intrusive Detection Zone	
	Type II Signal Pedestal	
N/A	Curb Ramp	
N/A	Guardrail	
Ⓐ	"YIELD" Sign (R1-2)	Ⓐ
Ⓑ	No Right Turn Sign (R3-1)	Ⓑ
Ⓒ	No U-Turn/No Left Turn Sign (R3-18)	Ⓒ
Ⓓ	Pedestrian Crossing Sign (W11-2) w/ Diagonal Arrow Plaque (W16-7P)	Ⓓ

OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 5	PHASE 6	PHASE 8
Min Green 1 *	10	7	10	7
Extension 1 *	5.0	2.0	5.0	2.0
Max Green 1 *	45	20	45	25
Yellow Clearance	3.8	3.0	3.8	3.7
Red Clearance	2.4	4.2	2.4	3.1
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	7	-	7	-
Don't Walk 1	8	-	6	-
Advance Walk	-	-	-	-
Seconds Per Actuation *	2.5	-	1.5	-
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.

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP / ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A✳	6X6	200	✳	-	2	Y	Y	-	-	-	-	✳
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	-	-	Y
5B	6X40	0	2-4-2	Y	5	Y	Y	-	-	-	-	Y
6A	6X6	200	4	Y	6	Y	Y	-	-	-	-	Y
6B	6X6	200	4	Y	6	Y	Y	-	-	-	-	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	-	Y
8B	6X40	0	2-4-2	Y	8	Y	Y	-	-	15	-	Y

* Non-Intrusive detection zone.

Signal Upgrade - Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Offices of: Transportation Mobility and Safety Division, Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 20 1"=20'

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

Division 9 Forsyth County Winston-Salem

PLAN DATE: September 2024	REVIEWED BY:
PREPARED BY: J.A. Lohr	REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 026486 ENGINEER ROBERT J. ZIEMBA

01/02/2025
DATE

SIG. INVENTORY NO. 09-0599

01-AUG-2025 12:23
S:*ITS&SU*ITS Signals*Signal Design Section*Central Region*Div 9*I-5880*09-0599*09599_sig_dsn_2024mmdd.dgn
jalohr