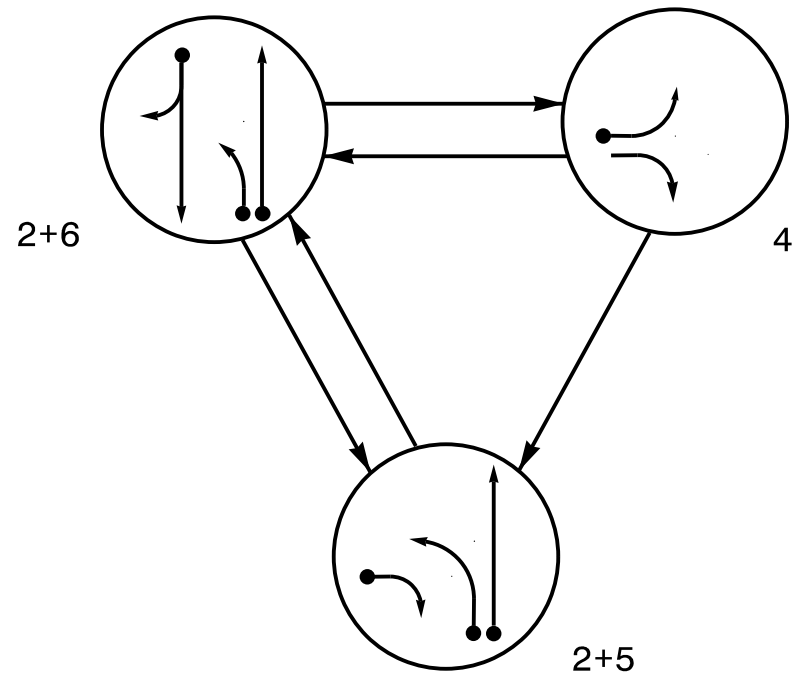


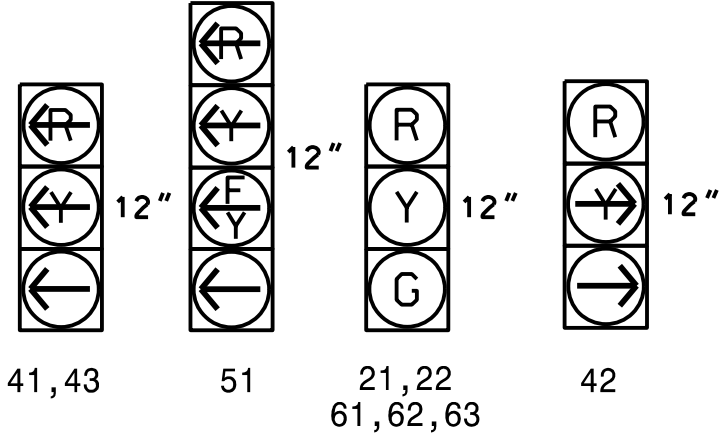
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	2 + 5	2 + 6	4	FLASH
21, 22	G	G	R	R
41, 43				
42		R		R
51				
61, 62, 63	R	G	R	R

SIGNAL FACE I.D.

All Heads L.E.D.



PHASING DIAGRAM DETECTION LEGEND

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

MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND INITIAL	ADDED INITIAL	CALL DELAY DURING GREEN	NEW CARD
2A	6X6	300	EXIST	-	2	-	-	X	X	X	-
4A	6X40	0	2-4-2	X	4	3.0	-	X	-	X	-
5A	6X40	0	2-4-2	-	5	15.0	-	X	-	X	-
5B	6X40	+5	2-4-2	X	5	15.0	-	X	-	X	-
6A	6X6	300	4	-	6	-	-	X	X	X	-

3 Phase
Fully Actuated
Isolated

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.
- Phase 5 may be lagged.
- Set all detector units to presence mode.
- Maximum times shown in timing charts are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

PROPOSED	EXISTING
	N/A
	N/A

MAXTIME TIMING CHART				
FEATURE	PHASE			
	2	4	5	6
Walk *	-	-	-	-
Ped Clear *	-	-	-	-
Min Green *	12	7	7	12
Passage *	6.0	2.0	2.0	6.0
Max I *	60	25	20	60
Yellow Change	4.6	3.2	3.0	4.6
Red Clear	1.5	2.6	1.6	1.5
Added Initial *	2.5	-	-	2.5
Maximum Initial *	34	-	-	34
Time Before Reduction *	15	-	-	15
Time To Reduce *	30	-	-	30
Minimum Gap	3.0	-	-	3.0
Advance Walk	-	-	-	-
Non Lock Detector	-	X	X	-
Vehicle Recall	MIN RECALL	-	-	MIN RECALL
Dual Entry	-	-	-	-

* 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.

Signal Upgrade - Final Design

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Prepared For the Offices of:
TRANSPORTATION MOBILITY AND SAFETY DIVISION
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N. Greenfield Pkwy, Garner, NC 27529

US 220 Bus (N Fayetteville St)
at
SR 1712 (Pineview Street)

Division 8 Randolph County Asheboro

PLAN DATE: November 2025 REVIEWED BY: R Mullinax

PREPARED BY: LD Stouchko REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
034437
ENGINEER
Lori Stouchko
24-Nov-2025
SIGNATURE DATE
SIG. INVENTORY NO. 08-0580