

	DETECTED MOVEMENT
	UNDETECTED MOVEMENT (OVERLAP)
	UNSIGNALIZED MOVEMENT
	PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE			
	1 + 6	2 + 6	3	FLASH
11	← R	R	R	R
21,22	R	G	R	R
31,32	R	R	← R	R
61,62	G	G	R	R
P21,P22	DW	W	DW	DRK
P31,P32	DW	DW	W	DRK

$12''$ $12''$ $16''$

$\frac{11}{31, 32}$ $\frac{22, 23}{61, 62}$ $\frac{P21, P22}{P31, P32}$

DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A	*	0	*	-	1	-	-	X	-	X	-	*
2A	*	70	*	-	2	-	-	X	-	X	-	*
3A	*	0	*	-	3	-	-	X	-	X	-	*
3B	*	0	*	-	3	-	-	X	-	X	-	*
6A	*	70	*	-	6	-	-	X	-	X	-	*
6B	*	70	*	-	6	-	-	X	-	X	-	*

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. Phase 1 may be lagged.
4. Remove existing 4 section signal head numbered 32 and replace with new 3 section head.
5. Reposition existing signal head numbered 31.
6. Disconnect and bag existing signal head 33.
7. Set all detector units to presence mode.
8. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
9. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
10. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

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	
	Oversized Junction Box	
	2-in Underground Conduit	
	Directional Drill	N/A
	Right of Way	
	Directional Arrow	
	Curb Ramp	
	Truncated Dome	
	Non-Intrusive Detection Zone	
	Construction Zone	N/A
	Type I Pushbutton Post	
	Type II Signal Pedestal	
	Work Zone Drums	
	Tubular Markers	
	Work Zone Traffic Barricade	
	Construction Easement	
	Perm. Drainage/Utility Easement	
	Perm. Drainage Easement	
	“YIELD” Sign (R1-2)	
	“NO TURN ON RED” Sign (R10-11a)	
	Pedestrian Crossing Sign (W11-2)	
	Left Downward Diagonal Arrow Plaque (W16-7pL)	
	Right Downward Diagonal Arrow Plaque (W16-7R)	
	“NO MERGE AREA” Plaque (W4-5P)	
	No Left Turn Sign (R3-2)	
	No Right Turn (R3-1)	

MAXTIME TIMING CHART				
FEATURE	PHASE			
	1	2	3	6
Walk *	–	13	14	–
Ped Clear	–	18	16	–
Min Green *	7	10	7	10
Passage *	2.0	3.0	2.0	3.0
Max 1 *	25	70	50	85
Yellow Change	3.0	4.1	3.1	4.1
Red Clear	2.9	3.7	4.4	3.7
Added Initial *	–	–	–	–
Maximum Initial *	–	–	–	–
Time Before Reduction *	–	–	–	–
Time To Reduce *	–	–	–	–
Minimum Gap	–	–	–	–
Advance Walk	–	–	–	–
Non Lock Detector	X	6	7	–
Vehicle Recall	–	MIN RECALL	–	MIN RECALL
Dual Entry	–	–	–	–

Signal Upgrade
Temporary Design 3 - TMP Ph1, S4

Plans Prepared By:

 **DRMP**

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Transportation Mobility and Safety Division
DEPARTMENT OF TRANSPORTATION
STATE OF NORTH CAROLINA

Signal Design Section

750 N. Greenfield Pkwy, Garner, NC 27525

 SCALE
0 3
1" = 30'

[illegible]

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
052936
ENGINEER
BRITTANY N GROOM

—Signed by: Brittany Groom 8/26/2025

—TE09340ET094454— DATE _____

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